

03-08-13 LETTING ITEM 030

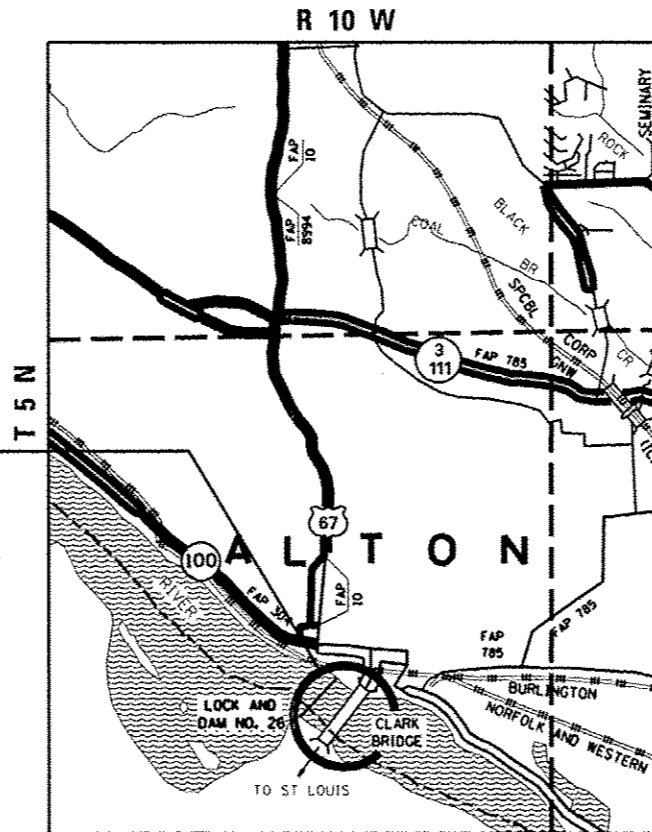
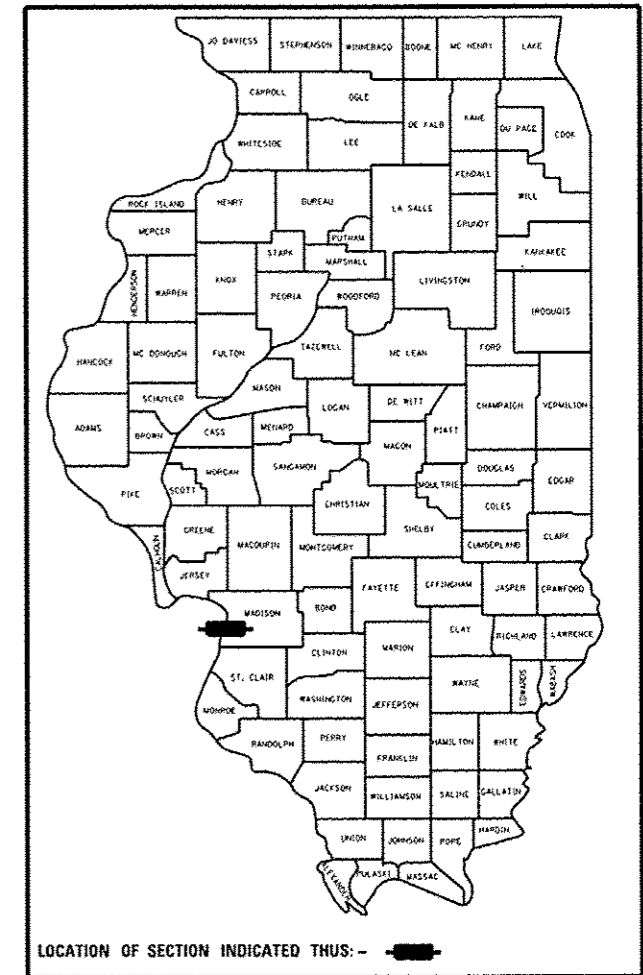
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**PROPOSED  
 HIGHWAY PLANS**

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

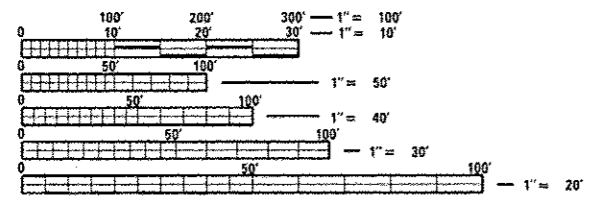
\*58 + 2 = 60  
 D-98-034-11

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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



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



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

ALTON TOWNSHIP

SCALE: NOT TO SCALE

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED December 19 20 12  
*[Signature]*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION-5 ENGINEER

Feb 1 20 13  
*John D. Baranzelli, P.E. l.a.*  
 ENGINEER OF DESIGN AND ENVIRONMENT

Feb 1 20 13  
*Omer Osman, P.E. l.a.*  
 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**

I. 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 * #USER*	DESIGNED - GEL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, GENERAL NOTES, COMMITMENTS & LIST OF STANDARDS				F.A.P. RTE. 304	SECTION 1008-105-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 2
#FILE#	PLOT SCALE * #SCALE*	DRAWN - LAC	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 76E73		
	PLOT DATE * #DATE*	CHECKED - MDP	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE - 11/16/2012	REVISED -										

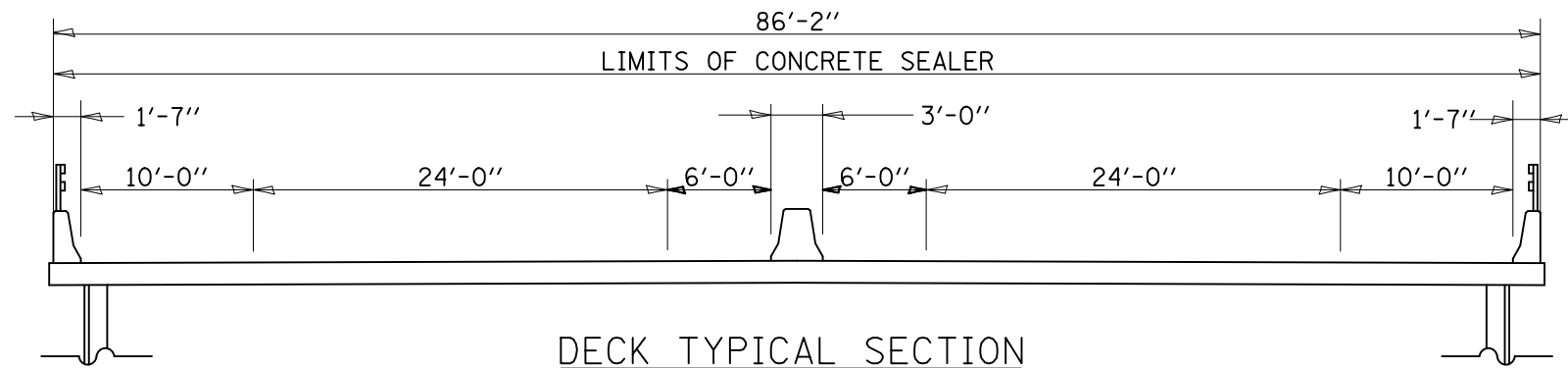
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				50% IL. 50% MD	0014 URBAN STRUCTURE					
51100300	SLOPE WALL 6 INCH	SQ YD	2	2						
58700300	CONCRETE SEALER	SQ FT	10,424	10,424						
59000200	EPOXY CRACK INJECTION	FOOT	98	98						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3						
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						

390

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				50% IL. 50% MO. 0014 URBAN STRUCTURE						
X0327544	CABLE STABILIZER REPAIRS	L SUM	1	1						
X5870015	BRIDGE DECK CONCRETE SEALER	SQFT	447,926	447,926						

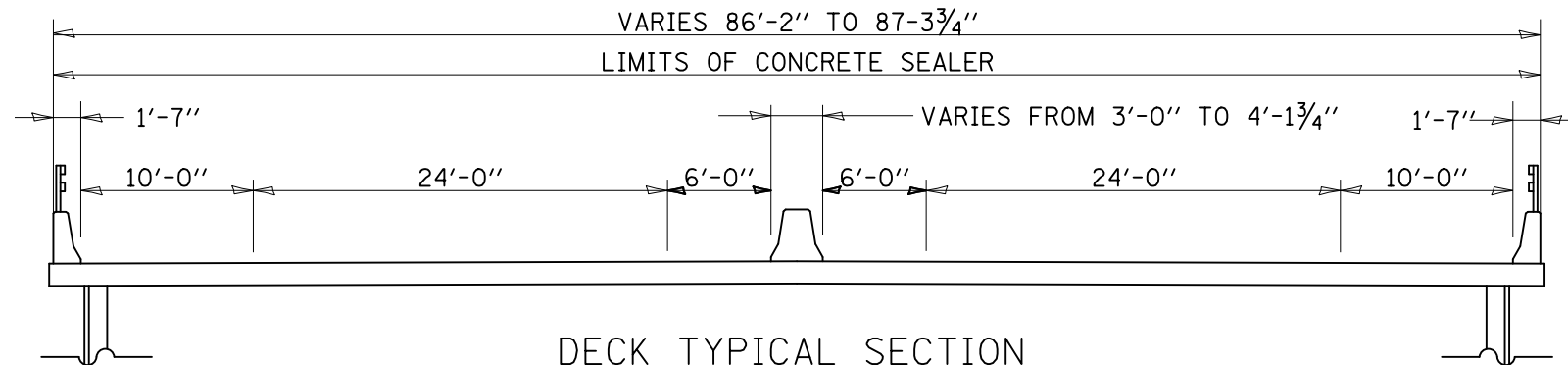
SCHEDULE OF QUANTITIES FOR BRIDGE DECK CONCRETE SEALER

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			



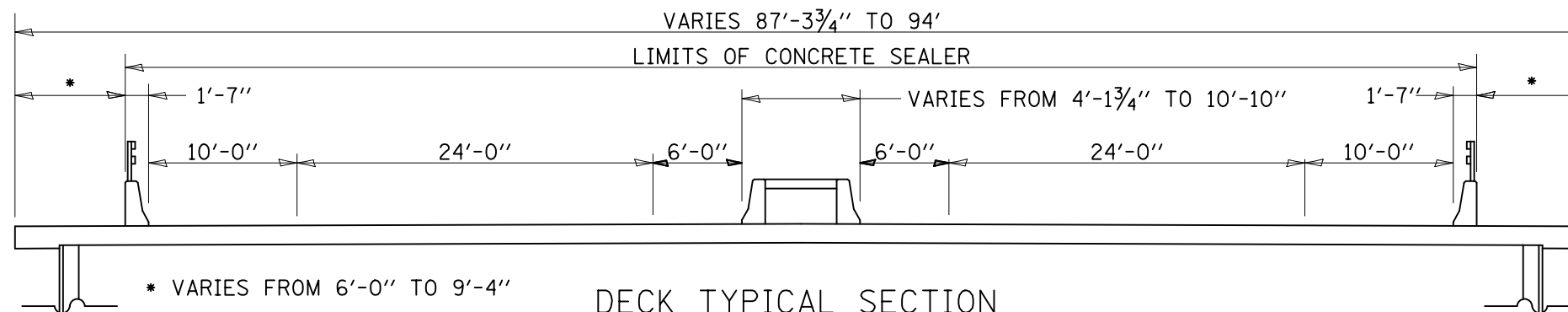
DECK TYPICAL SECTION

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



DECK TYPICAL SECTION

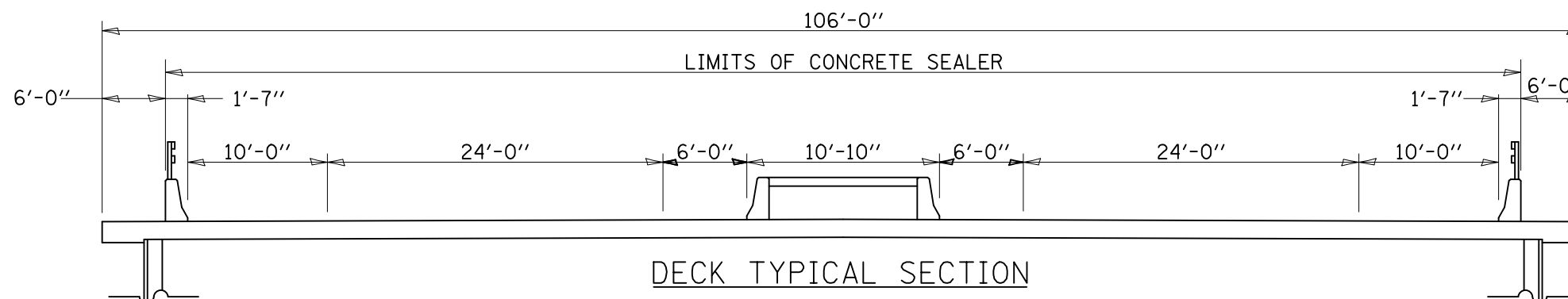
STA. 224+43.04 TO STA. 225+21.5  
STA. 237+18.5 TO STA. 237+97.12



DECK TYPICAL SECTION

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

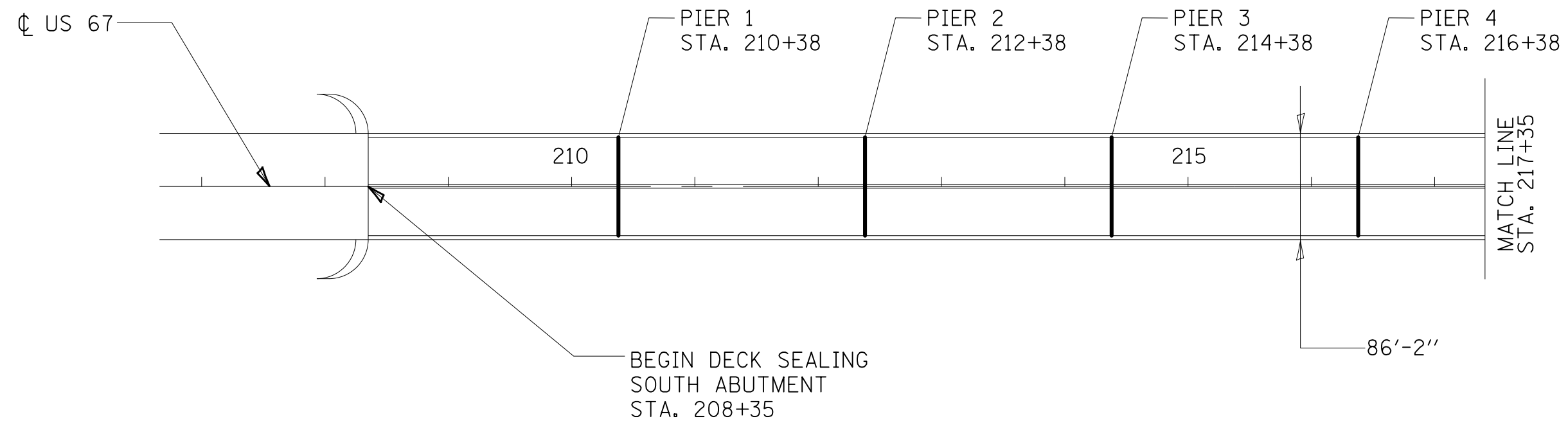
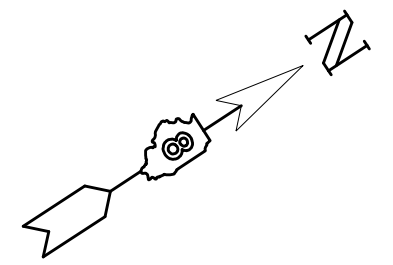
\* VARIES FROM 6'-0" TO 9'-4"



DECK TYPICAL SECTION

STA. 227+22 TO STA. 235+18

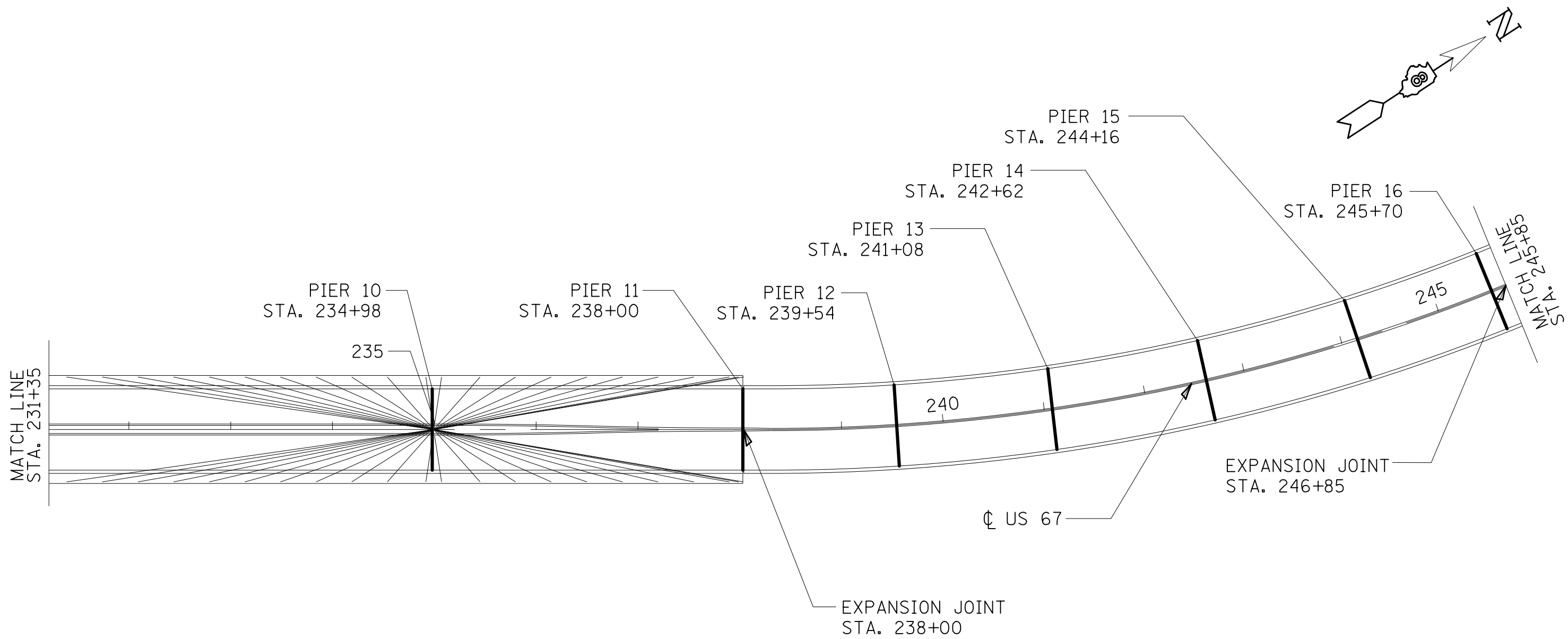
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		DATE - 11/16/2012	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								



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							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				







MATCH LINE  
STA. 231+35

PIER 10  
STA. 234+98

PIER 11  
STA. 238+00

PIER 12  
STA. 239+54

PIER 13  
STA. 241+08

PIER 14  
STA. 242+62

PIER 15  
STA. 244+16

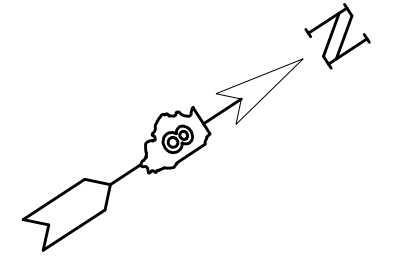
PIER 16  
STA. 245+70

EXPANSION JOINT  
STA. 238+00

EXPANSION JOINT  
STA. 246+85

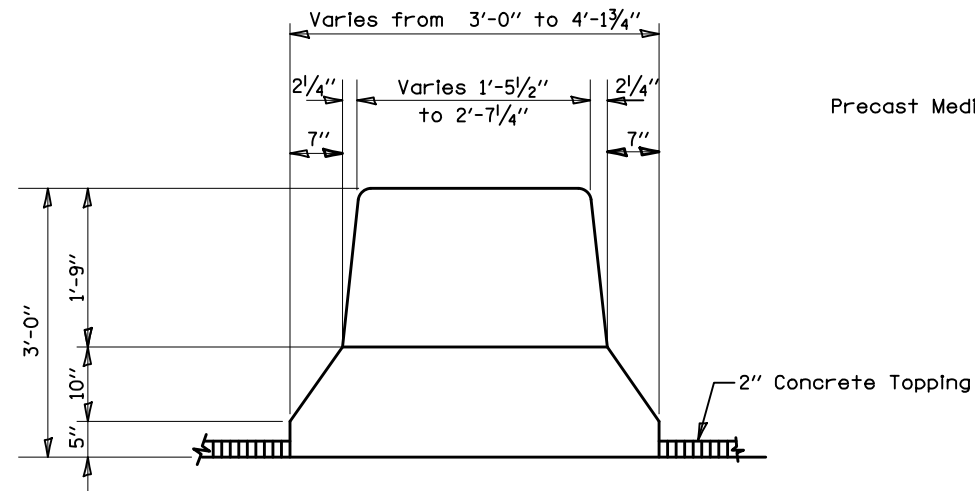
US 67

CLARK BRIDGE  
MATCH LINE  
STA. 246+85



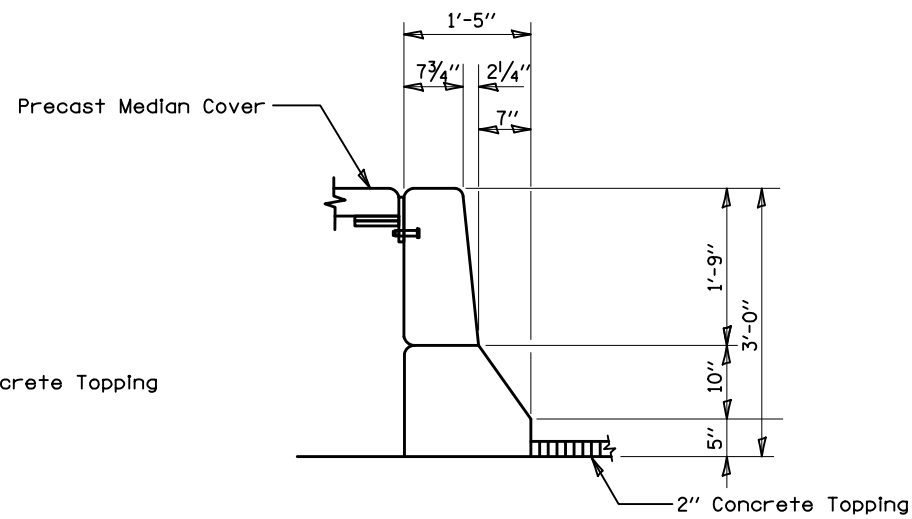
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							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			





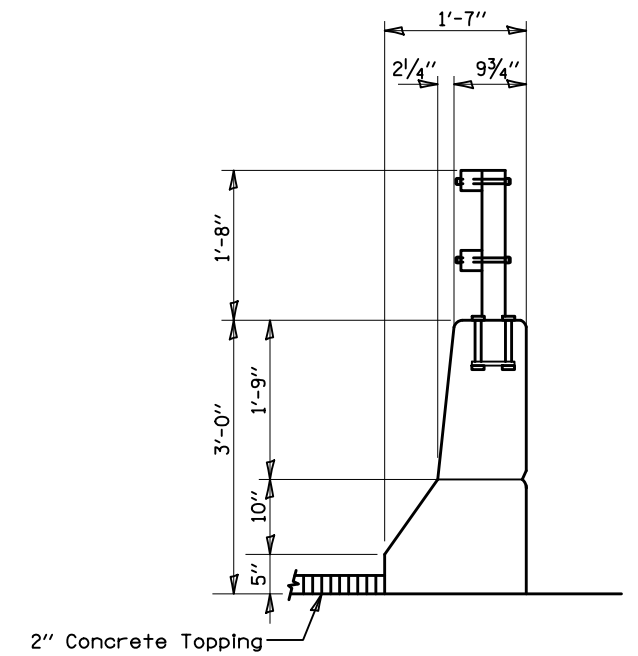
DETAIL "A"  
SOLID MEDIAN

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



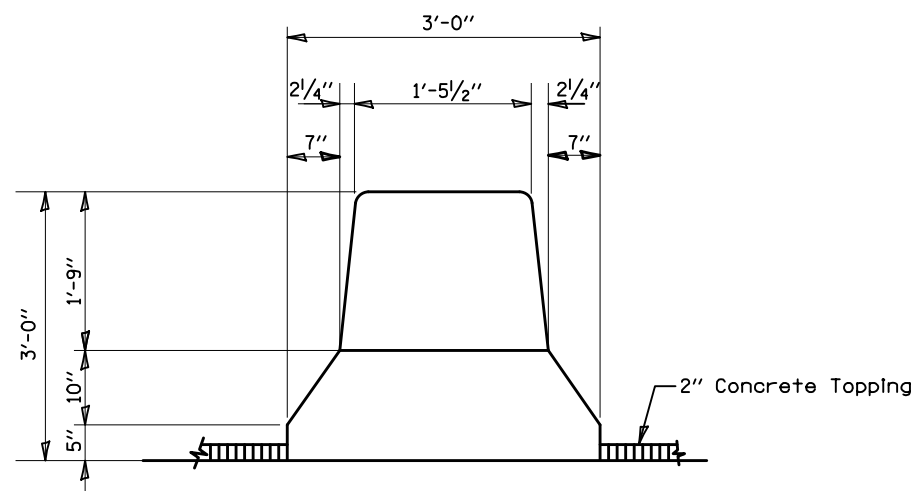
DETAIL "B"  
INSIDE PARAPET

STA. 225+21.5 TO 237+18.5



DETAIL "C"  
OUTSIDE PARAPET

STA. 208+35 TO STA. 254+55



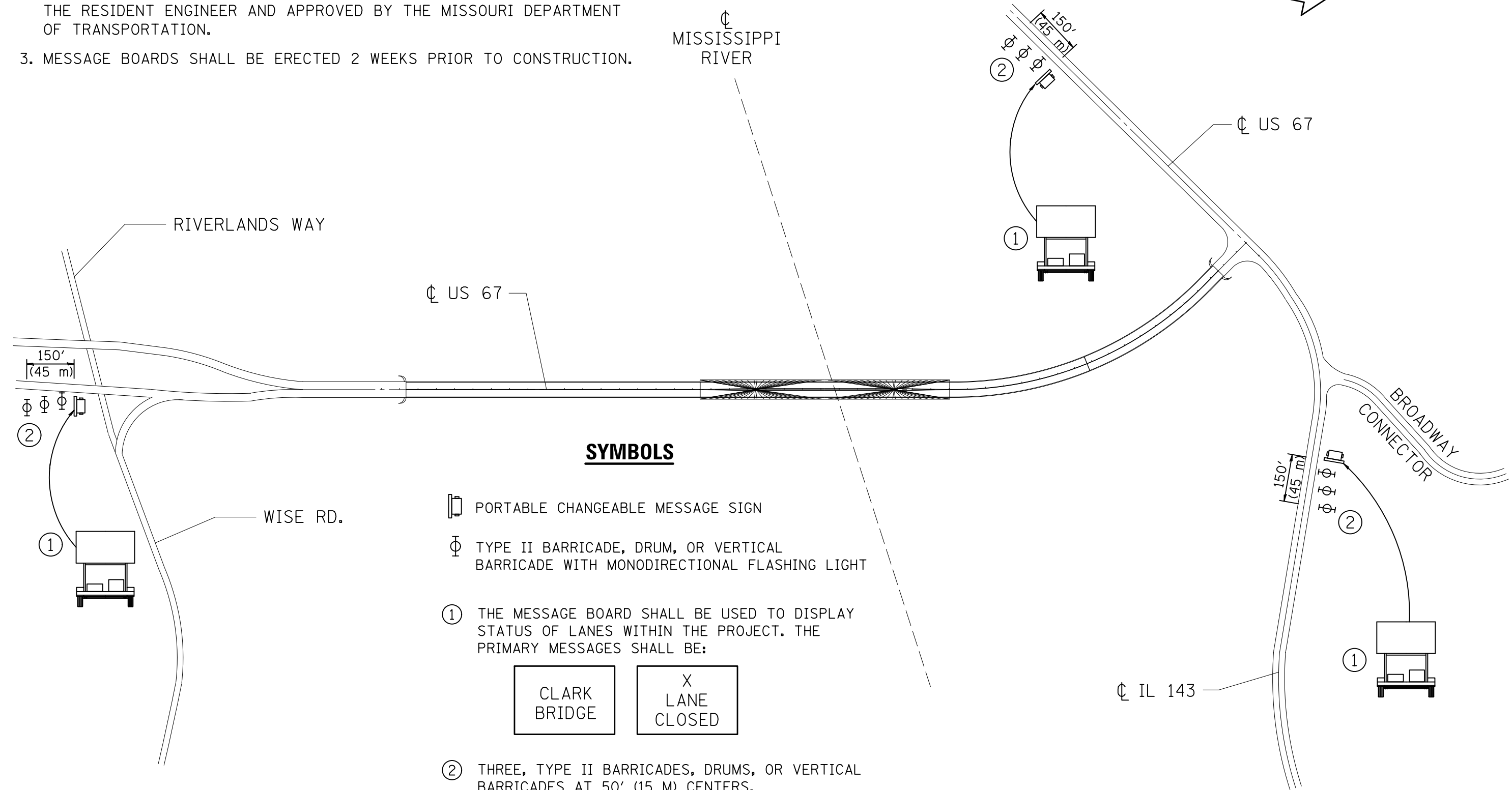
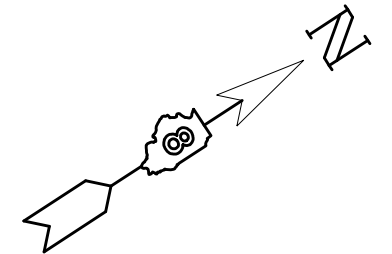
DETAIL "D"  
SOLID MEDIAN

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



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		CHECKED - MDP	REVISED -		<b>CONTRACT NO. 76E73</b>								
		DATE - 11/16/2012	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

**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:

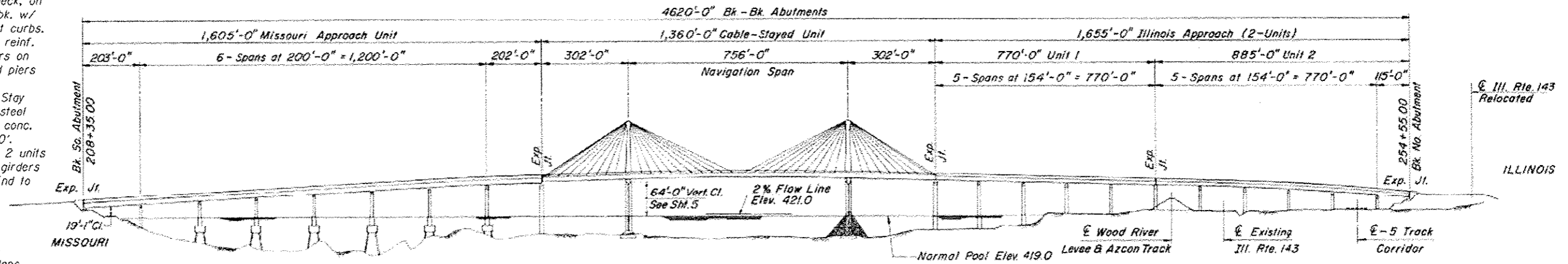


- ② THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' (15 M) CENTERS.

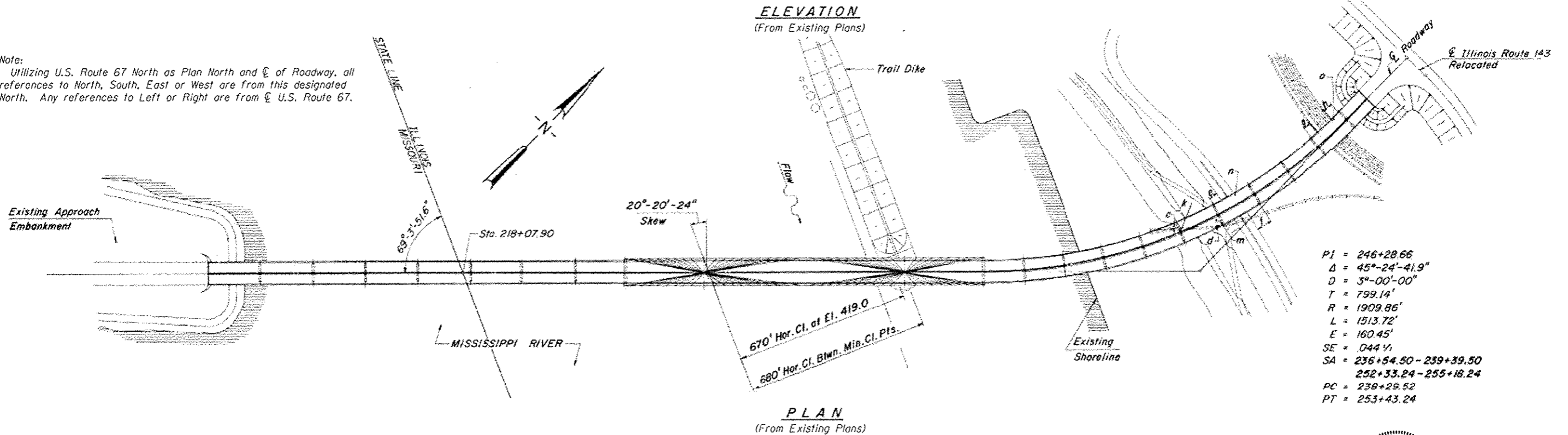
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		DATE -	REVISED -		FED. ROAD DIST. NO.      ILLINOIS FED. AID PROJECT						

**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

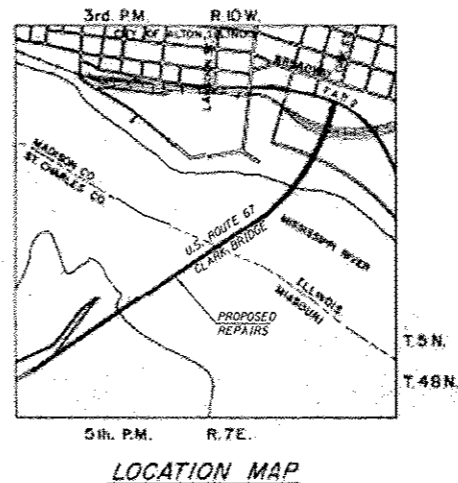
Traffic shall be maintained on structure according to Maintenance of Traffic Plans.



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



**DESIGN STRESSES**  
 FIELD UNITS (New Const.)  
 $f'_c = 3,500$  psi  
 $f_y = 36,000$  psi (AASHTO M270 Grade 36)



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	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN &amp; ELEVATION STRUCTURE NO. 060-0255</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED	PASSED			SHEET NO. 01 OF 48 SHEETS		304	100B-10S-1	MADISON	58	11
DRAWN Rod				ILLINOIS FED. AID PROJECT						
CHECKED MNM				CONTRACT NO. 76E73						

**GENERAL NOTES**

Utilizing U.S. Route 67 North as Plan North and  $\text{C}$  of Roadway, all references to North, South, East or West are from this designated North. Any references to Left or Right are from  $\text{C}$  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 Slopewall 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 -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
STRUCTURE NO. 060-0255**

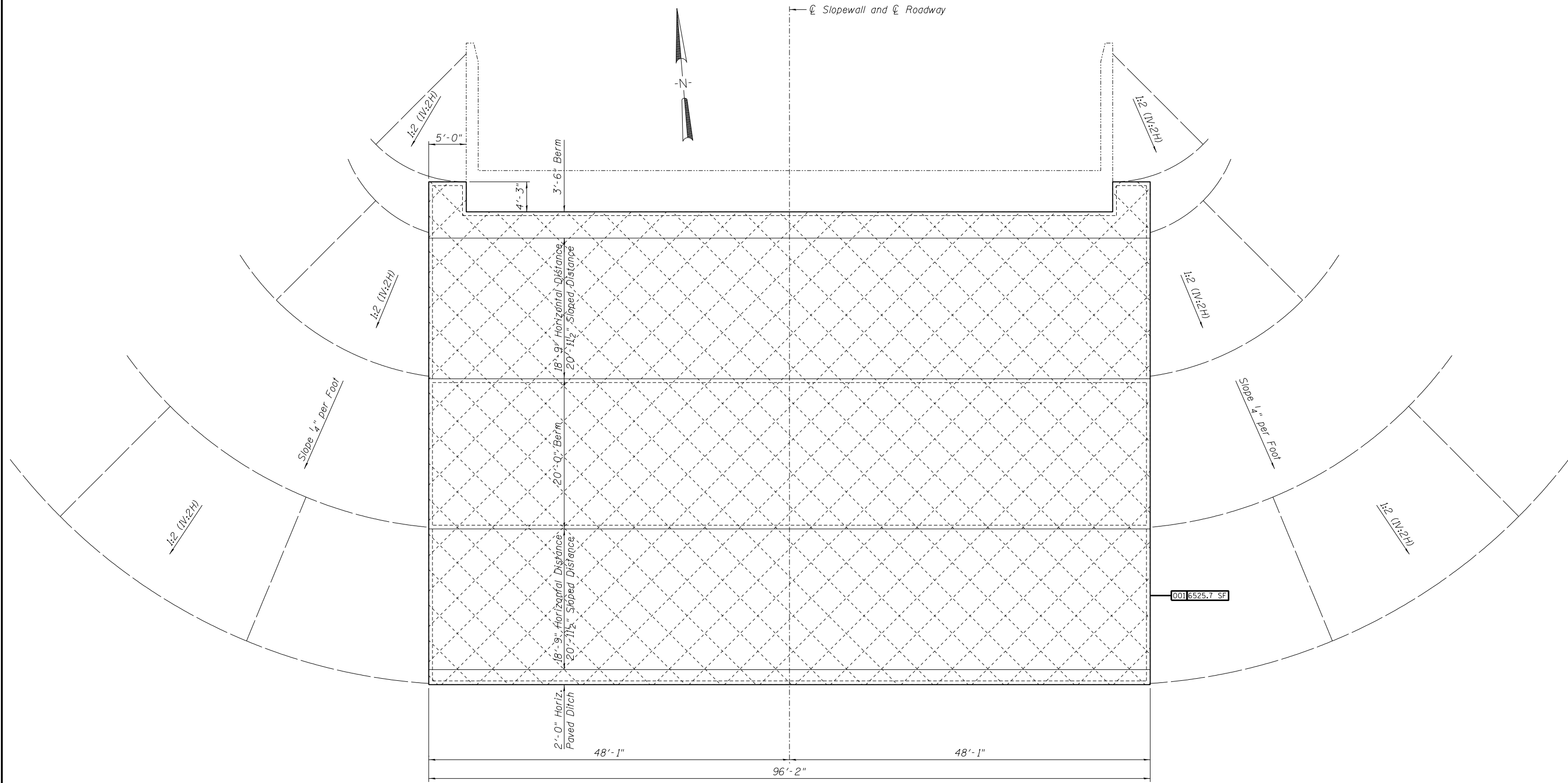
SHEET NO. 02 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	12
			CONTRACT NO. 76E73	
			ILLINOIS FED. AID PROJECT	



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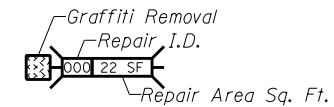
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**SLOPEWALL PLAN**

**REPAIRS LIST - NORTH ABUTMENT SLOPEWALL**

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



**GRAFFITI REMOVAL**

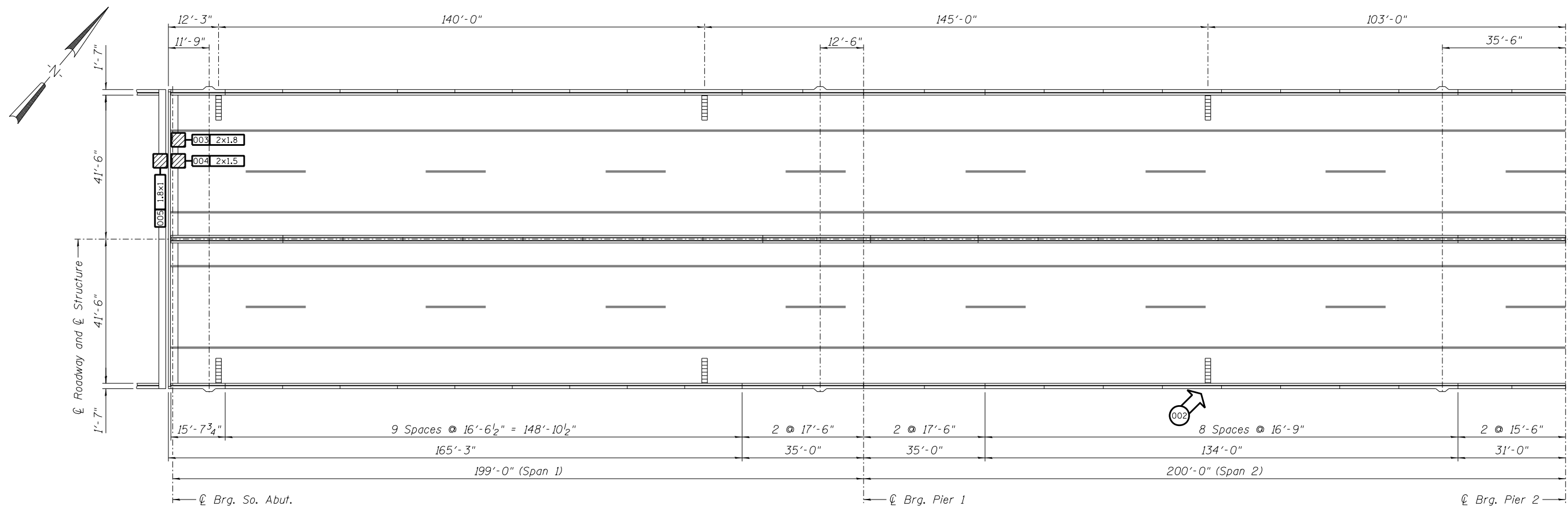
DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

SHEET NO. 03 OF 48 SHEETS

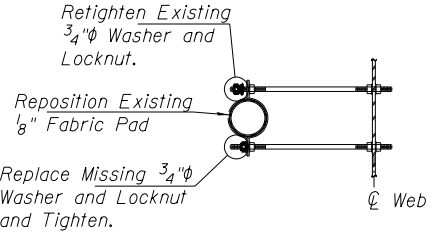
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	13
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	



**MISSOURI APPROACH - SPANS 1 and 2**

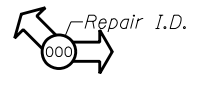
**REPAIRS LIST - SPANS 1 and 2**

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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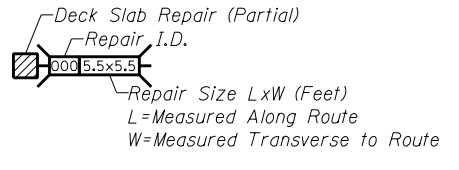


**EXISTING DRAIN BRACKET**

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

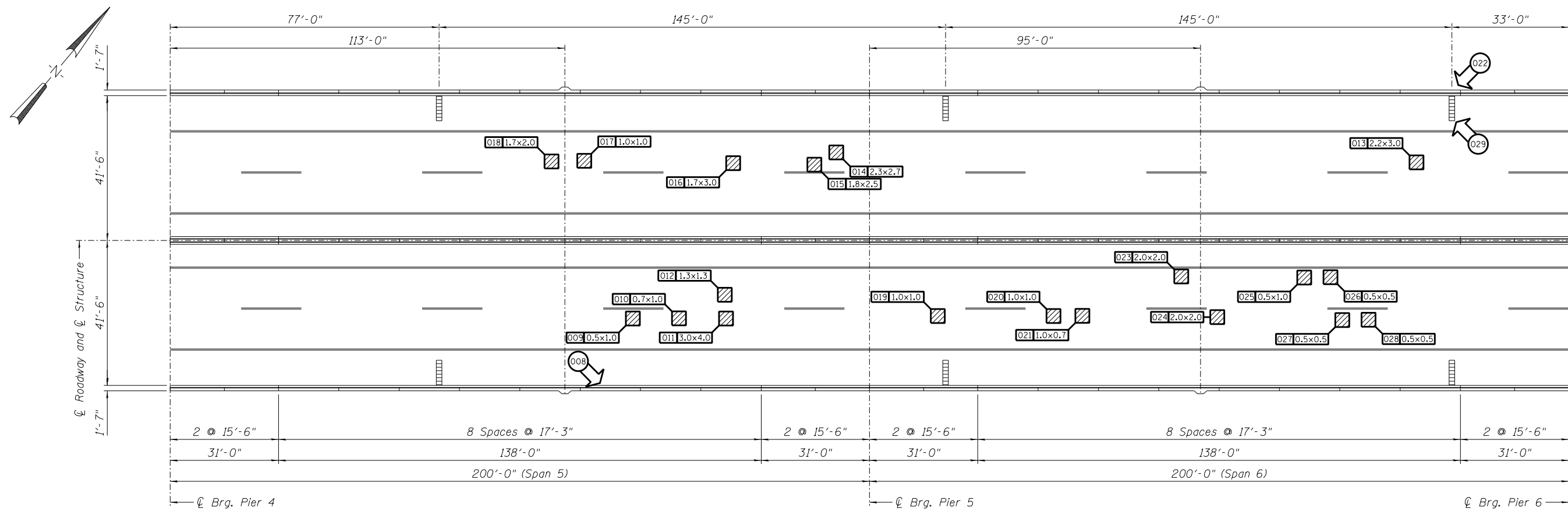


**OTHER ITEMS**



**DECK SLAB REPAIR (PARTIAL)**

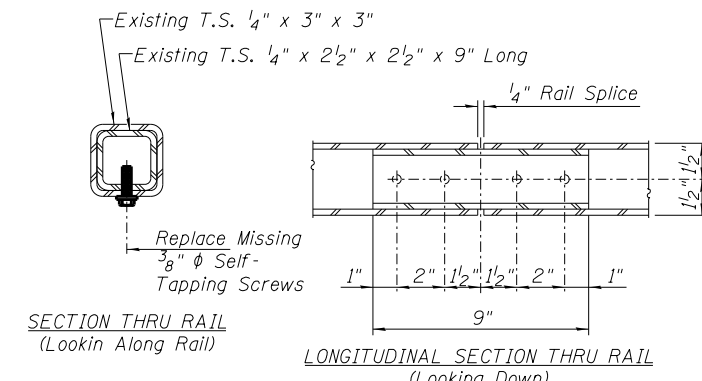




**MISSOURI APPROACH - SPANS 5 and 6**

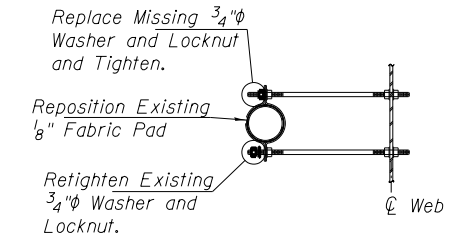
**REPAIRS LIST - SPANS 5 and 6**

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



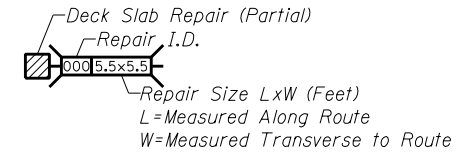
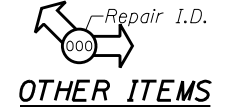
**BRIDGE RAIL SPLICE FASTENER REPAIR**

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.



**DECK SLAB REPAIR (PARTIAL)**

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

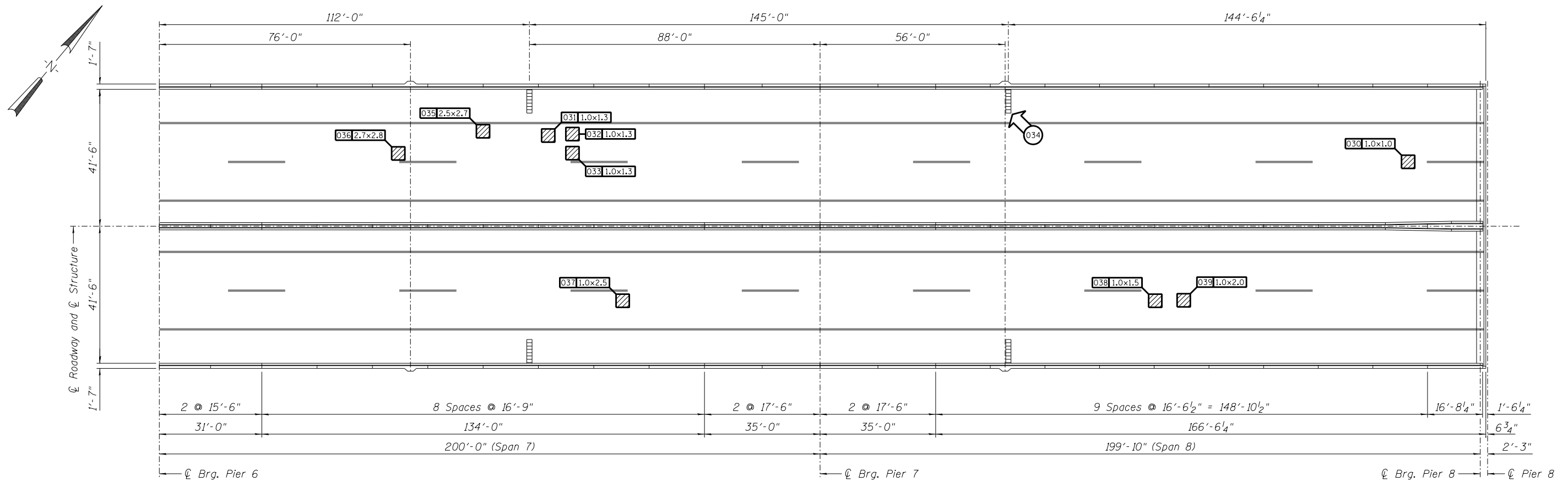
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REPAIRS TO - DECK SLAB and PARAPETS - SPANS 5 and 6  
 STRUCTURE NO. 060-0255**

SHEET NO. 05 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-ID5-1	MADISON	58	15
CONTRACT NO. 76E73				

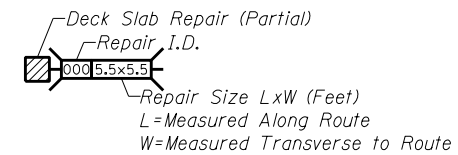
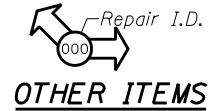
ILLINOIS FED. AID PROJECT



**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	Clogged 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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**DECK SLAB REPAIR (PARTIAL)**

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

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

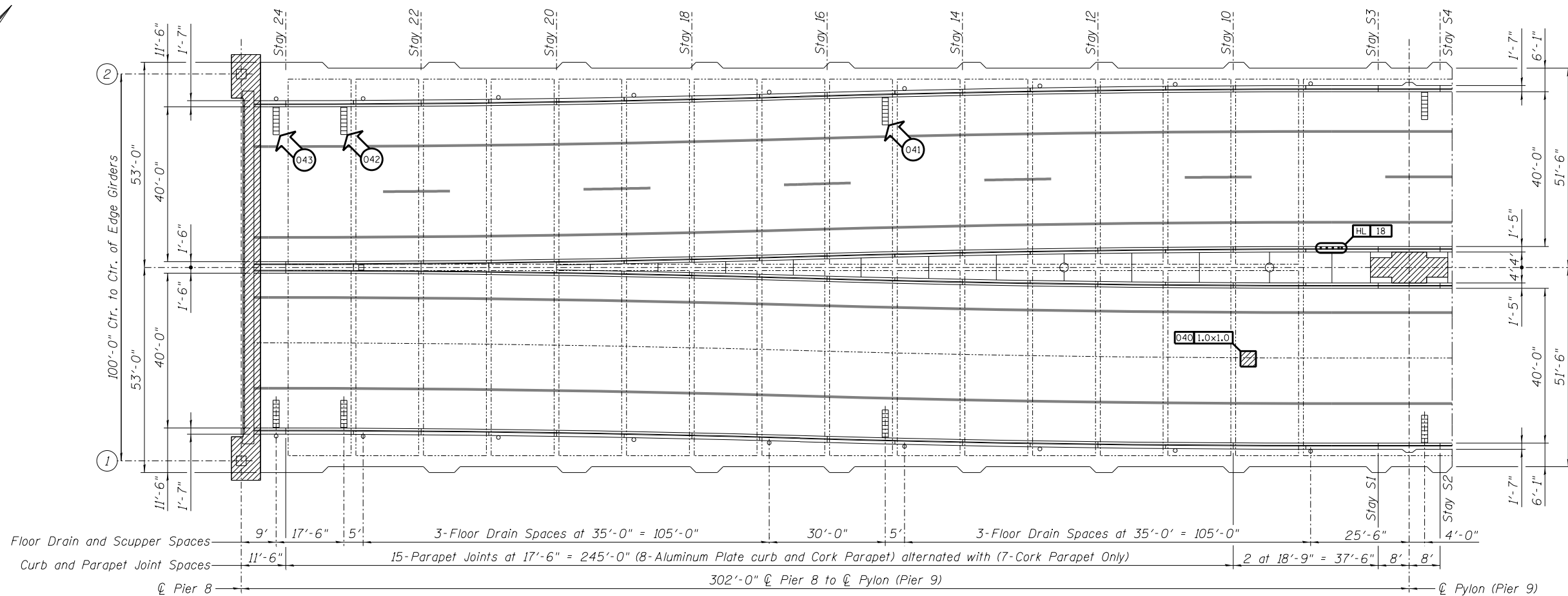
**REPAIRS TO - DECK SLAB and PARAPETS - SPANS 7 and 8**  
**STRUCTURE NO. 060-0255**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1D5-1	MADISON	58	16
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	



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### 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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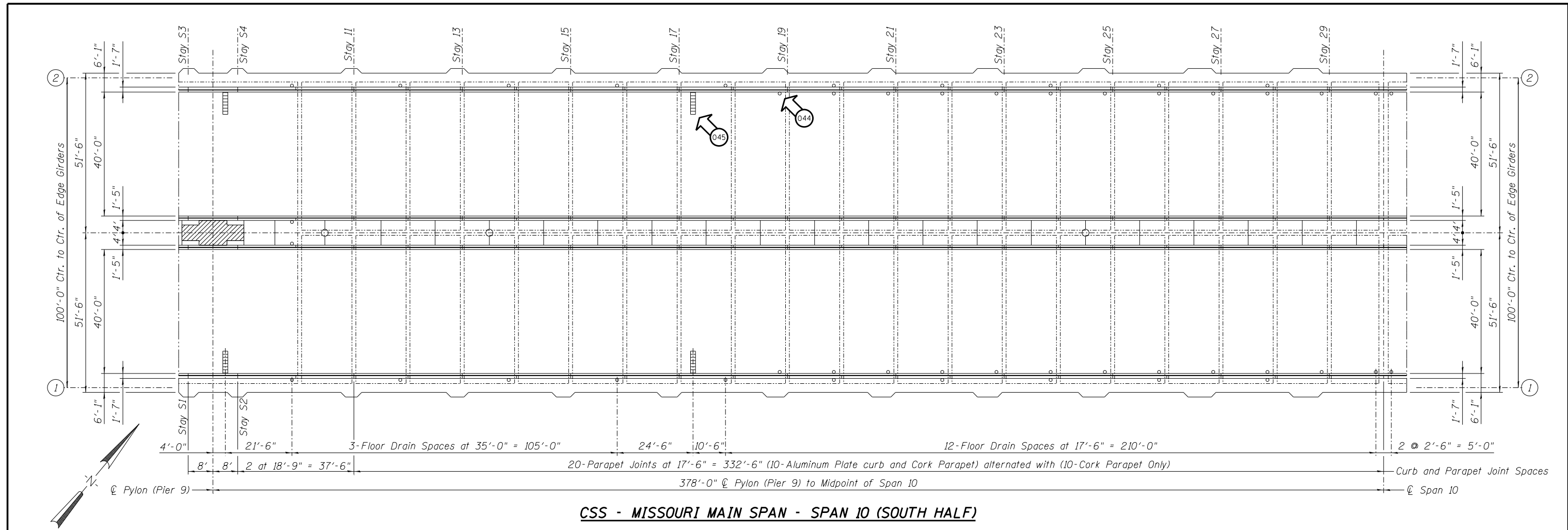
Repair I.D.  
000

**OTHER ITEMS**

Deck Slab Repair (Partial)  
Repair I.D.  
000 5.5x5.5

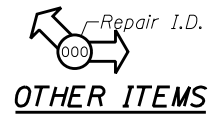
Repair Size LxW (Feet)  
L=Measured Along Route  
W=Measured Transverse to Route

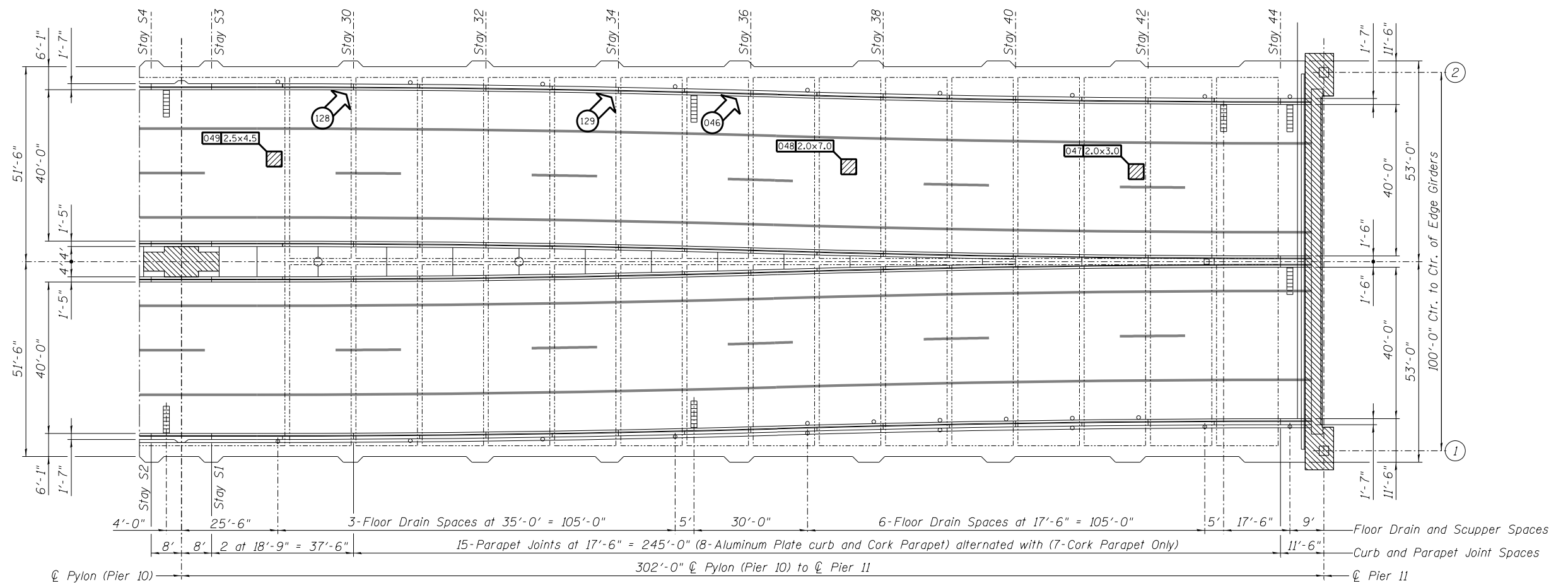
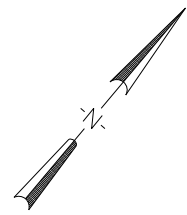
**DECK SLAB REPAIR (PARTIAL)**



**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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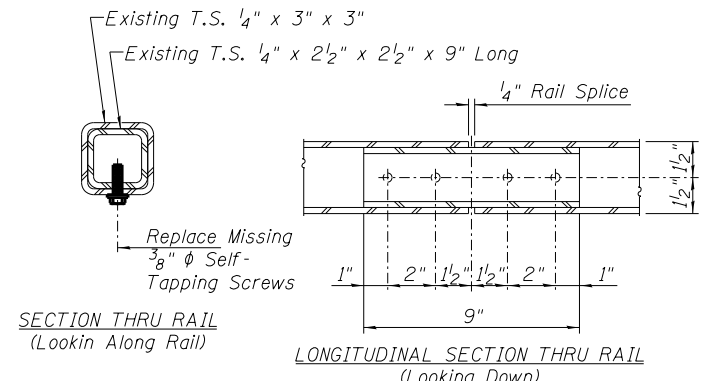




**CSS - ILLINOIS TAIL SPAN - SPAN II**

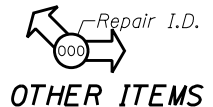
**REPAIRS LIST - SPAN II**

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	-	-	-
-	-	-	-	-
-	-	-	-	-
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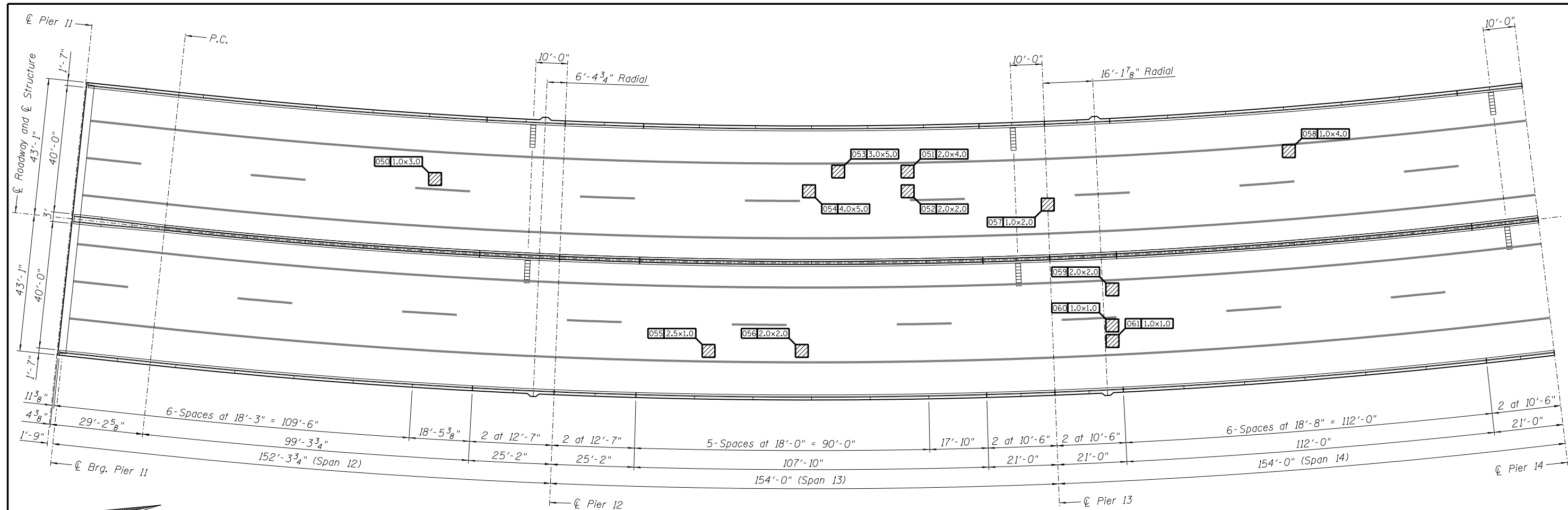


**BRIDGE RAIL SPLICE FASTENER REPAIR**

**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).



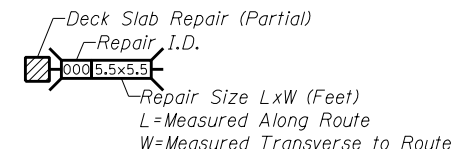
**DECK SLAB REPAIR (PARTIAL)**



**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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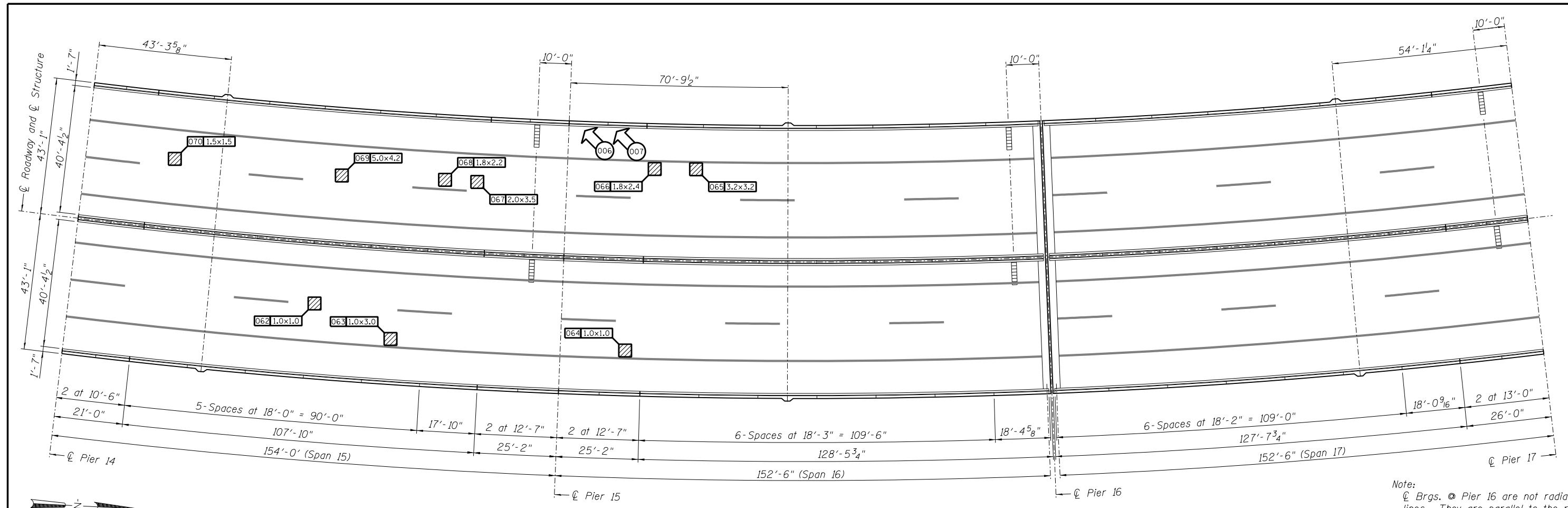
**DECK SLAB REPAIR (PARTIAL)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1D5-1	MADISON	58	20
CONTRACT NO. 76E73				

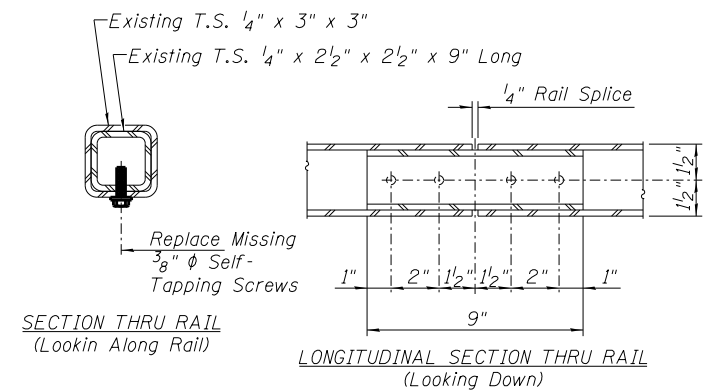
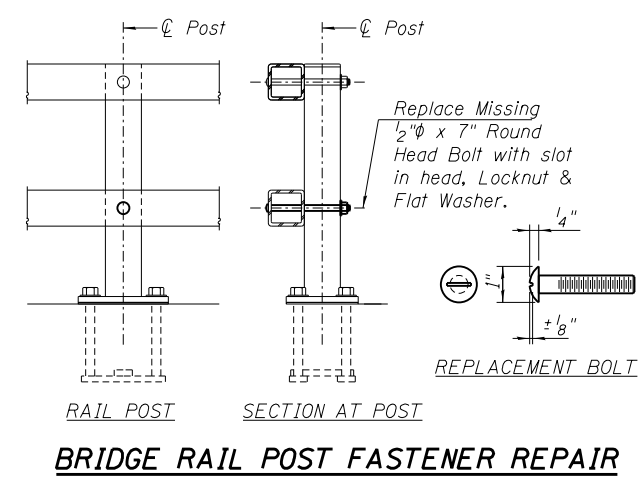


**ILLINOIS APPROACH - SPANS 15, 16 and 17**  
 (All measurements are along Girder 4 (☉ Roadway))

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	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
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-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



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**

☉ Repair I.D.

☉ Deck Slab Repair (Partial) Repair I.D.

☉ Repair Size LxW (Feet)  
 L=Measured Along Route  
 W=Measured Transverse to Route

**DECK SLAB REPAIR (PARTIAL)**

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

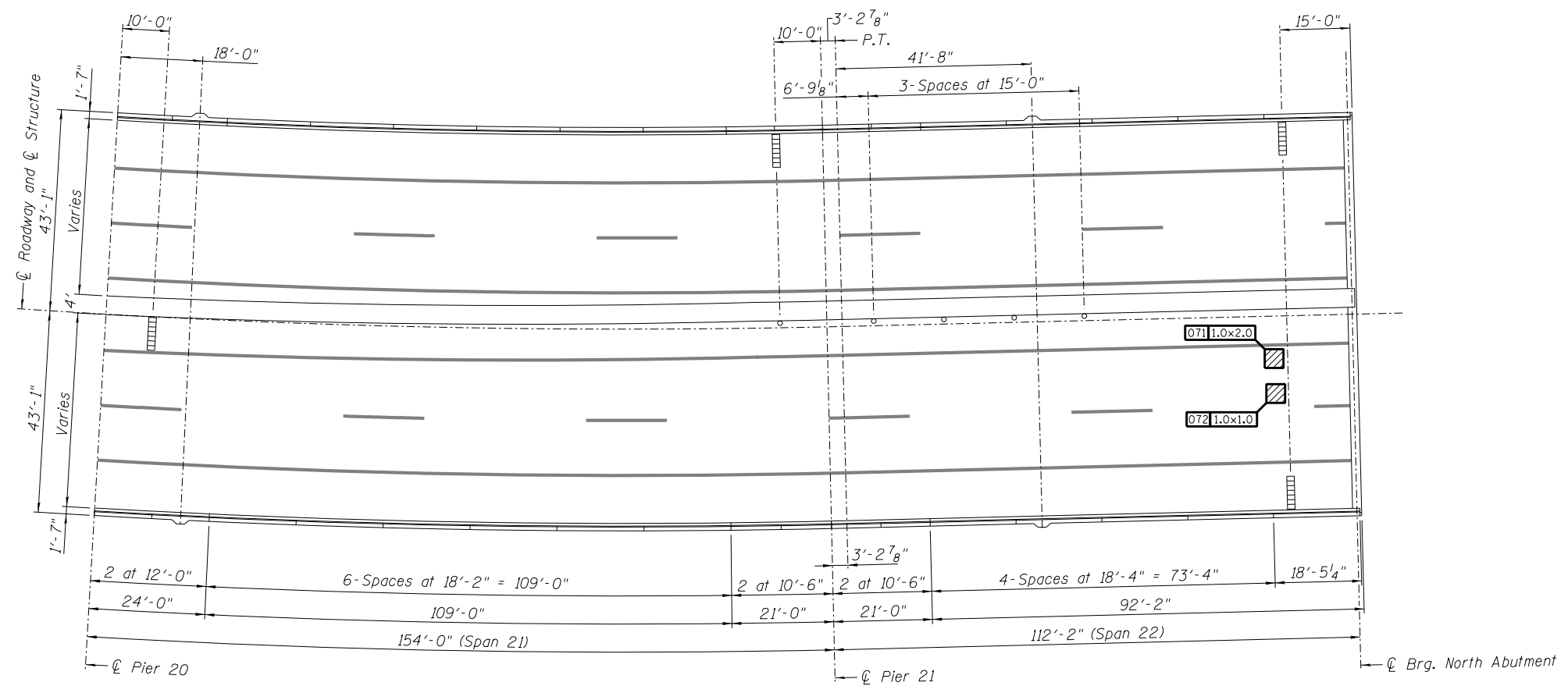
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REPAIRS TO - DECK SLAB and PARAPETS - SPANS 15, 16 and 17  
 STRUCTURE NO. 060-0255**

SHEET NO. 11 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-ID5-1	MADISON	58	21
CONTRACT NO. 76E73				

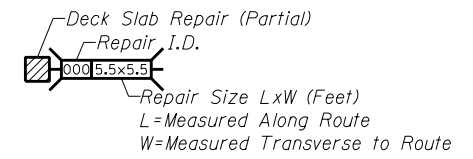
ILLINOIS FED. AID PROJECT



**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
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
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-	-	-	-	-
-	-	-	-	-
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-	-	-	-	-
-	-	-	-	-



**DECK SLAB REPAIR (PARTIAL)**

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

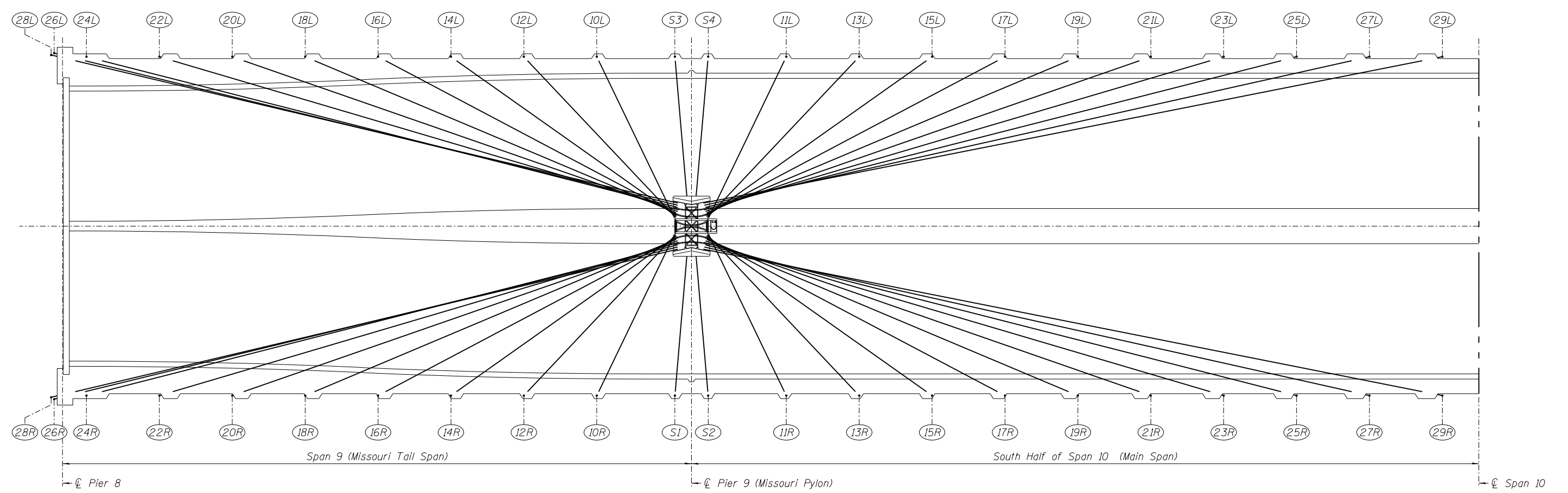
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	22
CONTRACT NO.			76E73	
ILLINOIS FED. AID PROJECT				



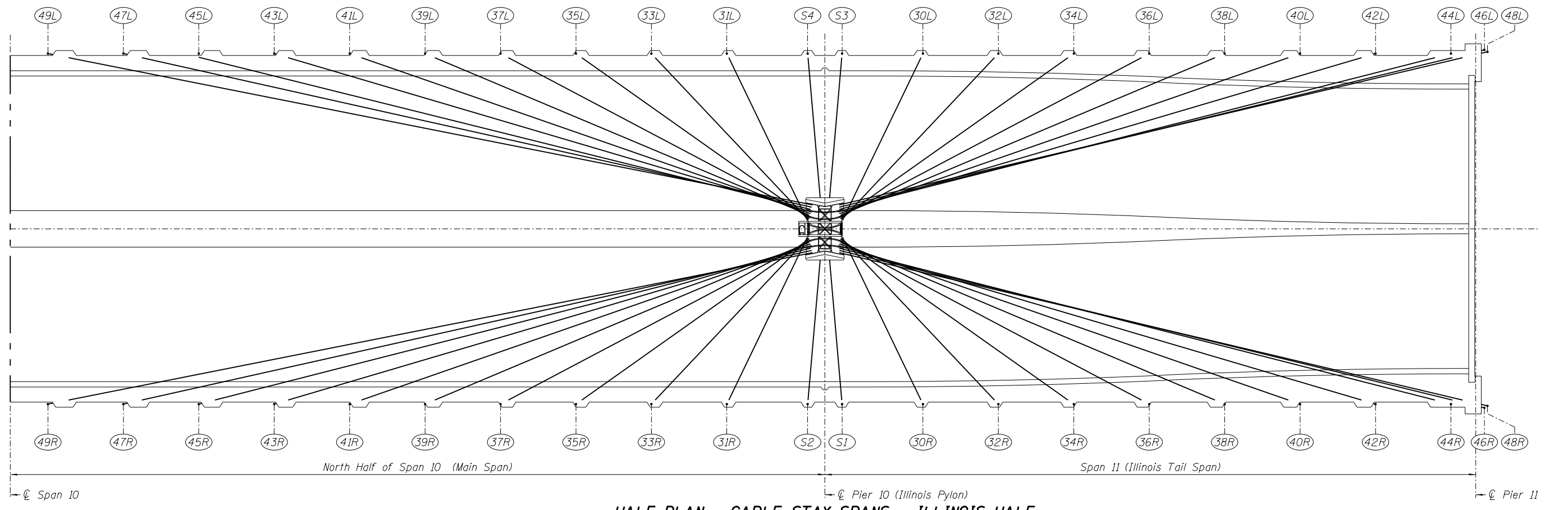
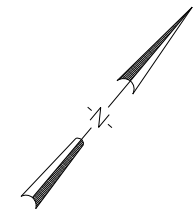


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huffm00028 10/17/2012 12:06:52 PM  
I:\1\Jobs\110007\MOA\CAD\1\10000255-76E7-3-03-Cable\_Numbering.dgn



**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**

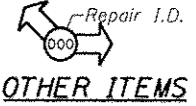
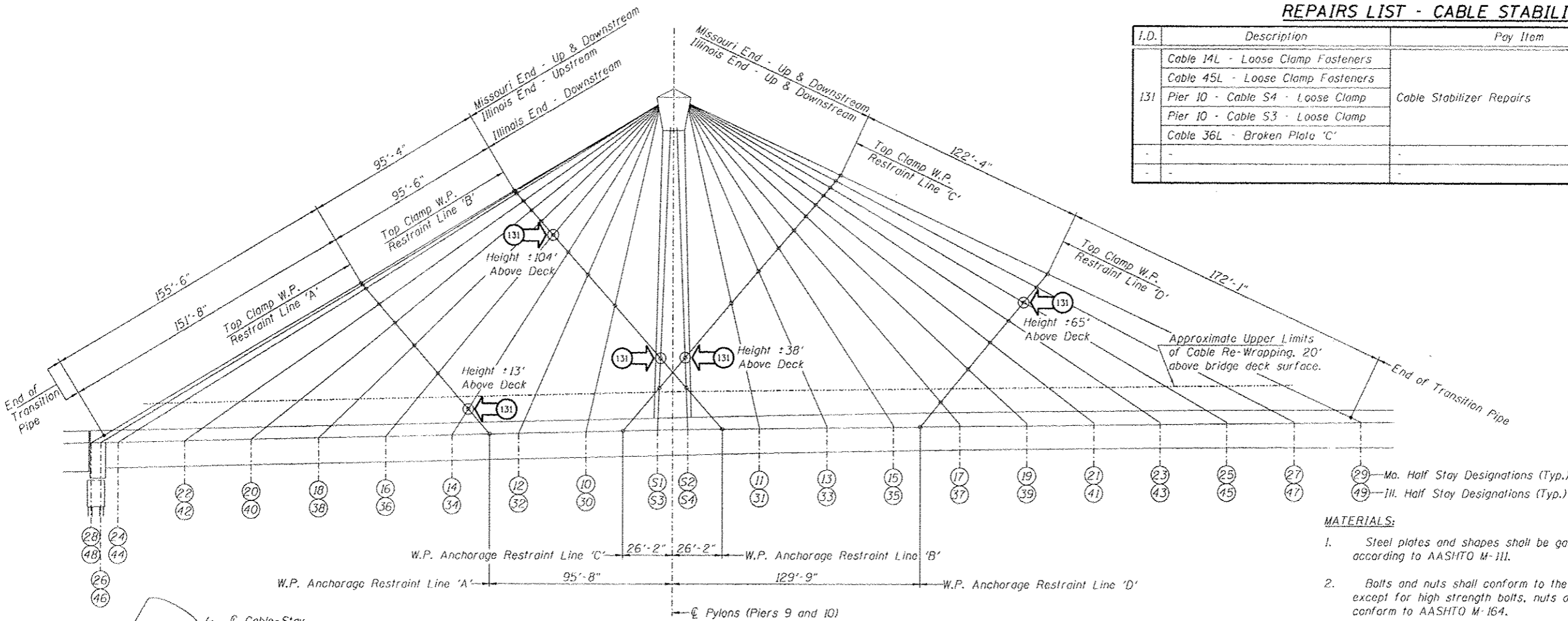
SHEET NO. 13 OF 48 SHEETS

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



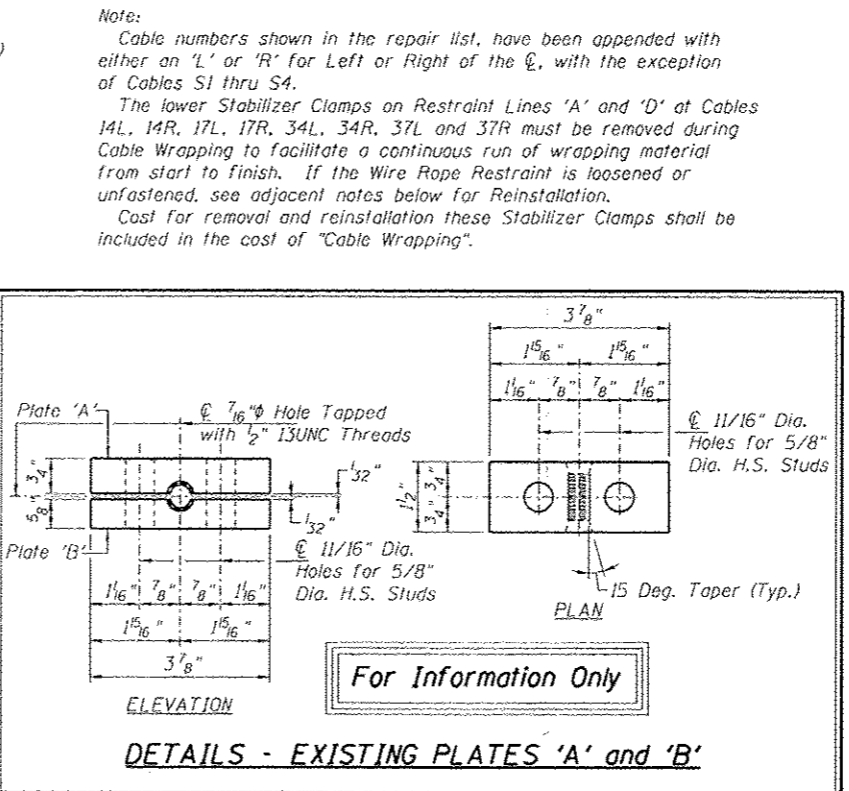
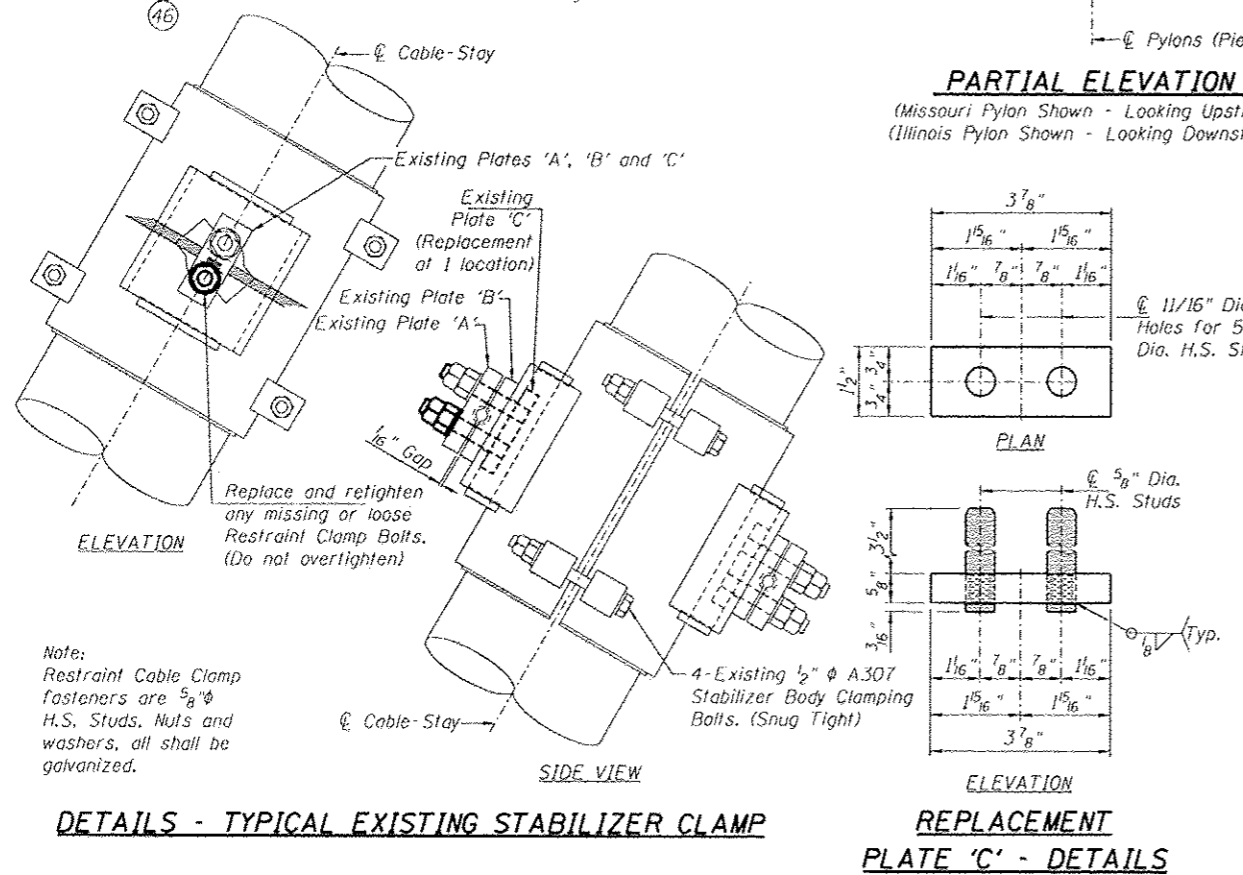
**REPAIRS LIST - CABLE STABILIZERS**

I.D.	Description	Pay Item	Units	Quantity
131	Cable 14L - Loose Clamp Fasteners	Cable Stabilizer Repairs	L Sum	1
	Cable 45L - Loose Clamp Fasteners			
	Pier 10 - Cable S4 - 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 bolt 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.



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

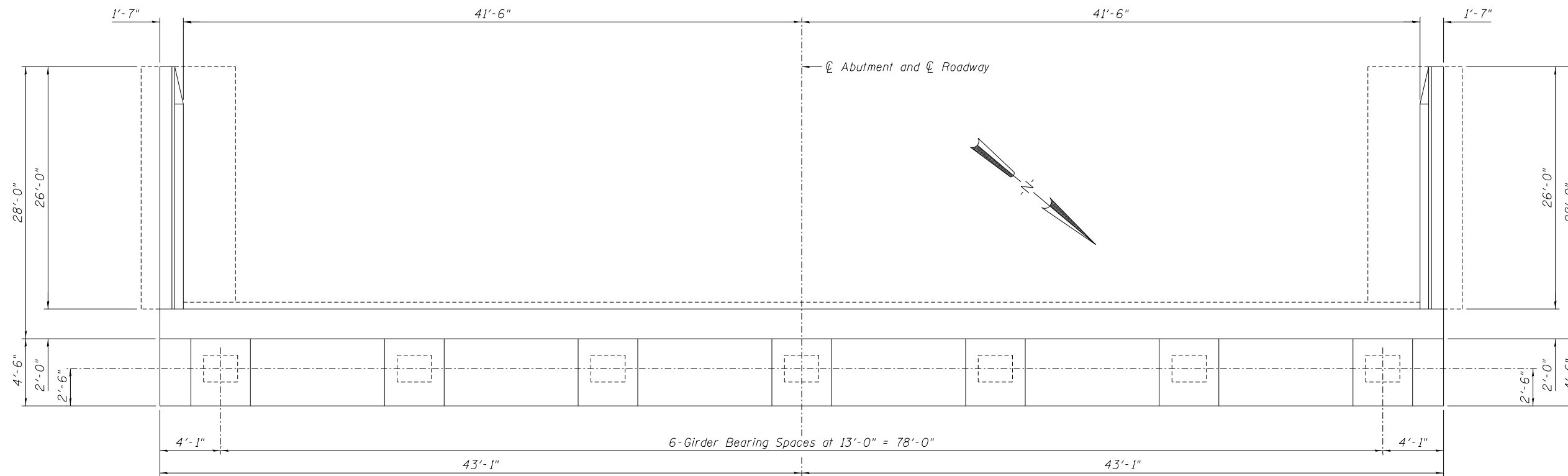
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

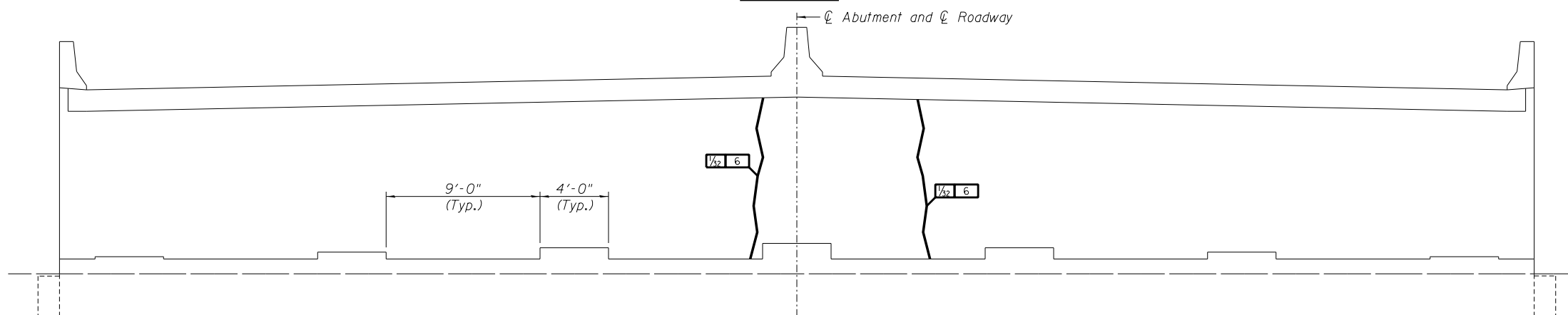
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-105-1	MADISON	58	25
CONTRACT NO. 76E73				

SHEET NO. 15 OF 48 SHEETS

ILLINOIS FED. AID PROJECT

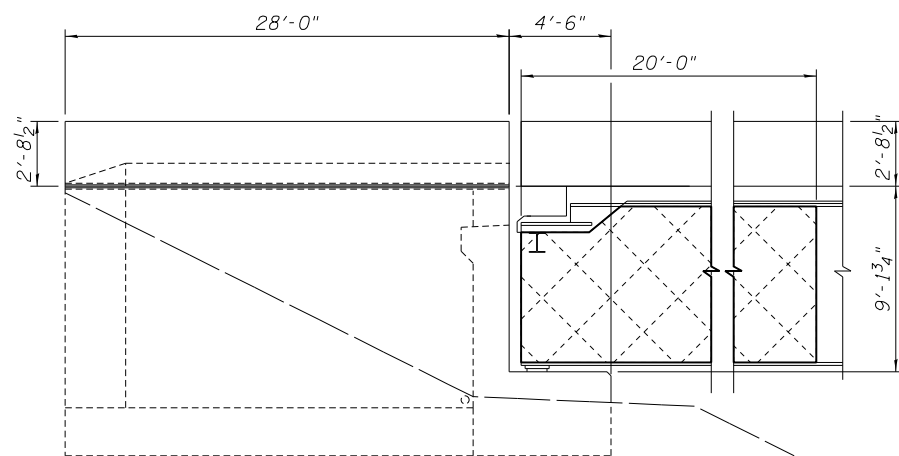


**TOP PLAN**



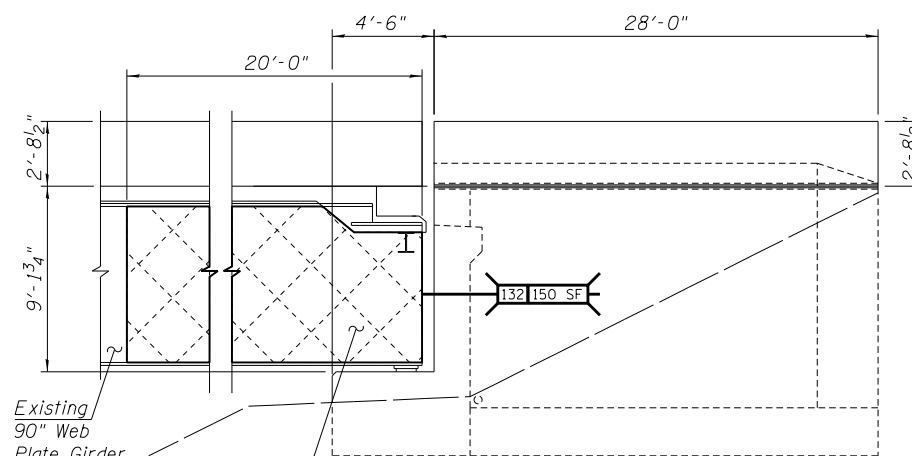
**ELEVATION**

Looking South



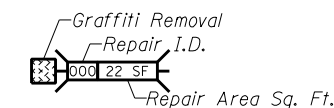
**WINGWALL ELEVATION**

East Wing

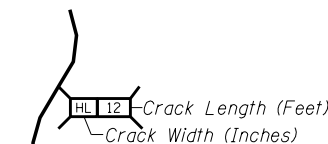


**WINGWALL ELEVATION**

West Wing



**GRAFFITI REMOVAL**



**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

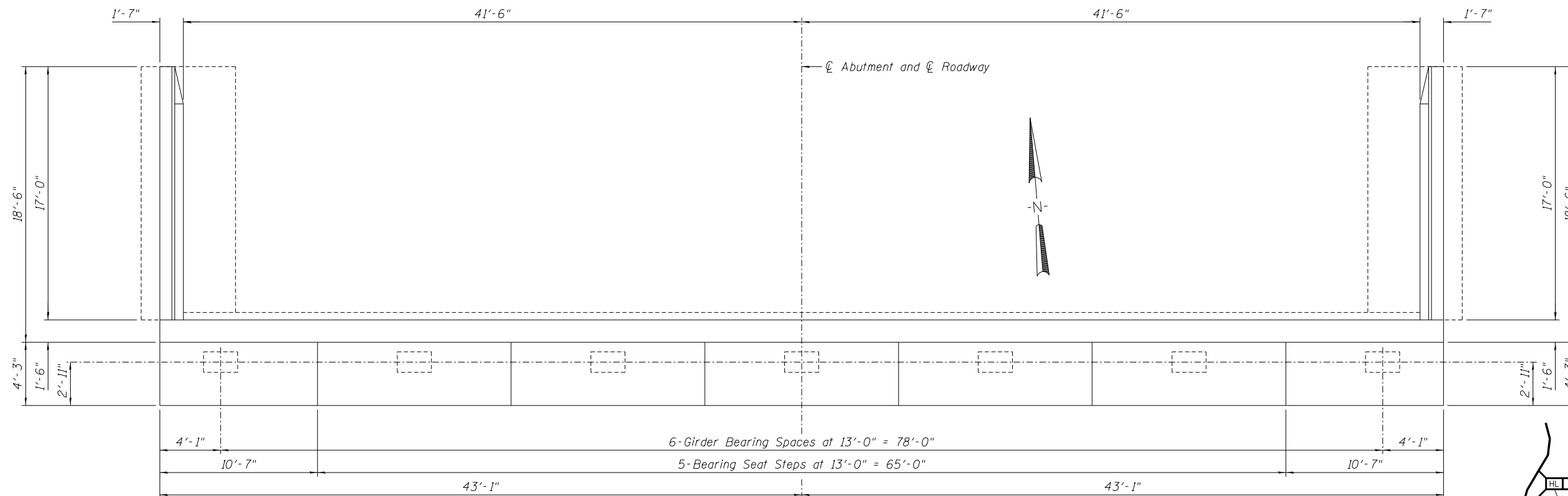
DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

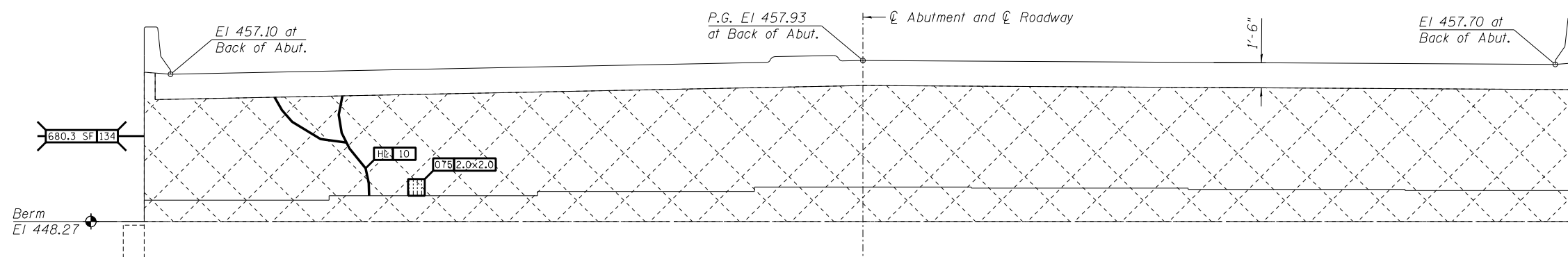
REPAIRS TO - SOUTH ABUTMENT  
 STRUCTURE NO. 060-0255

SHEET NO. 16 OF 48 SHEETS

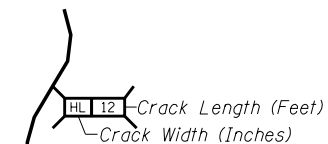
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	26
CONTRACT NO. 76E73				



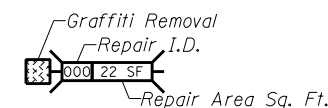
**TOP PLAN**



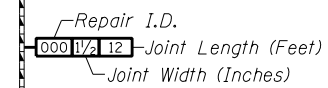
**ELEVATION**  
Looking North



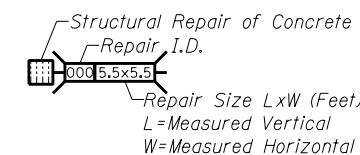
**CRACKS < 1/16"**  
Hairline Cracks (HL) or  
Cracks < 1/16" not to be Sealed.



**GRAFFITI REMOVAL**

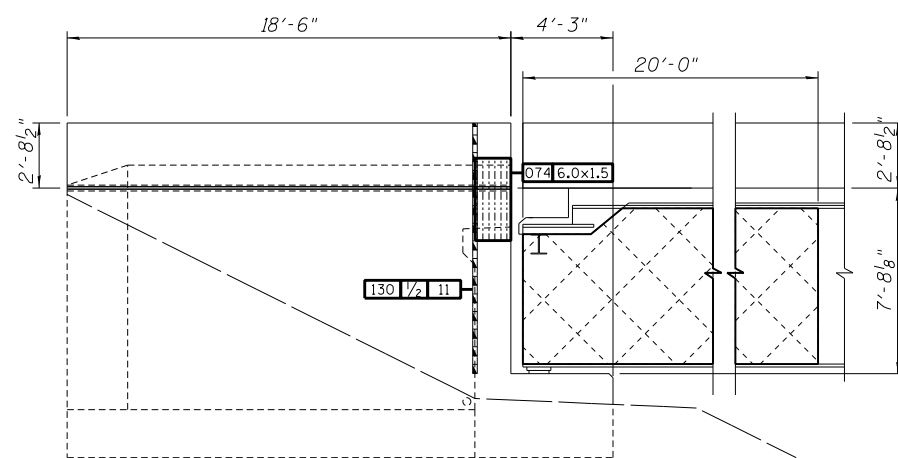


**POLYURETHANE SEALANT**

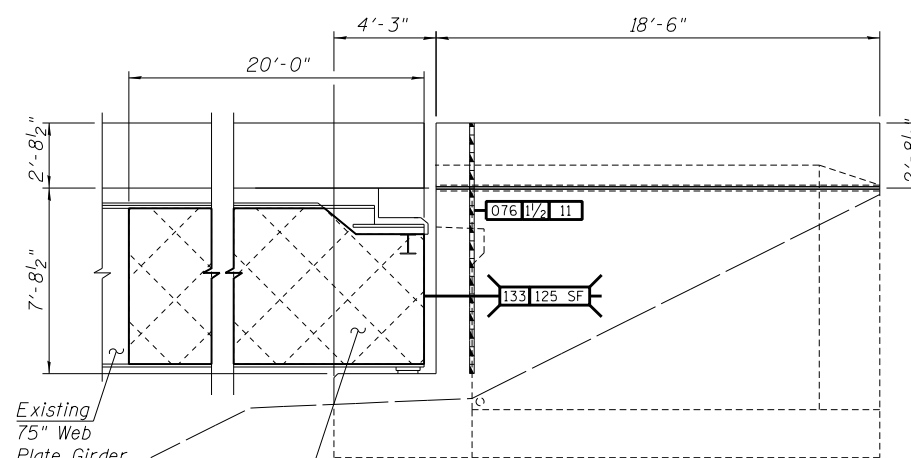


**STRUCTURAL REPAIR OF CONCRETE**

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.



**WINGWALL ELEVATION**  
West Wing



**WINGWALL ELEVATION**  
East Wing

**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**

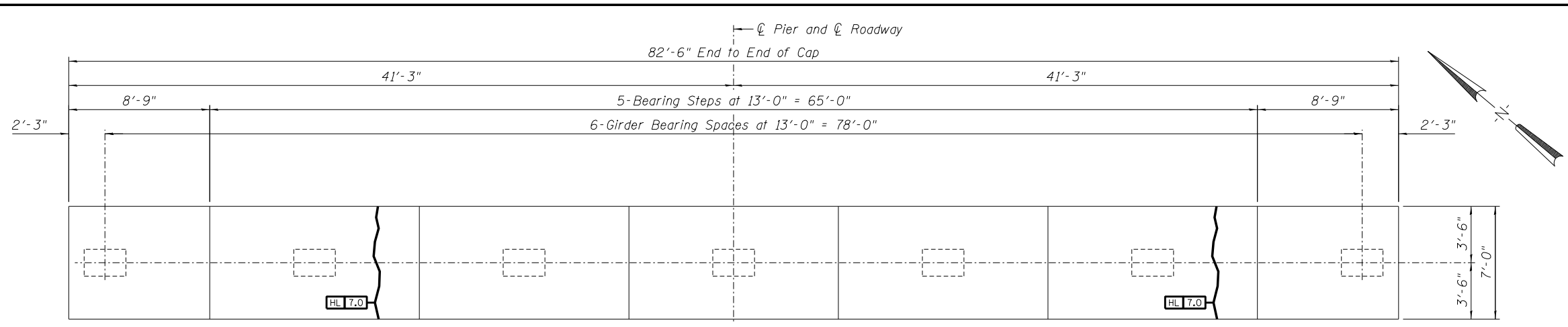
SHEET NO. 17 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-ID5-1	MADISON	58	27
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				

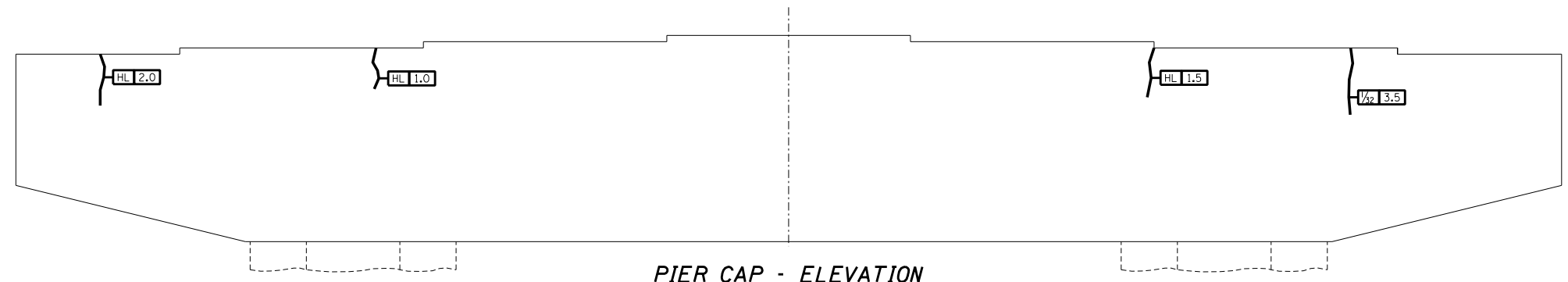


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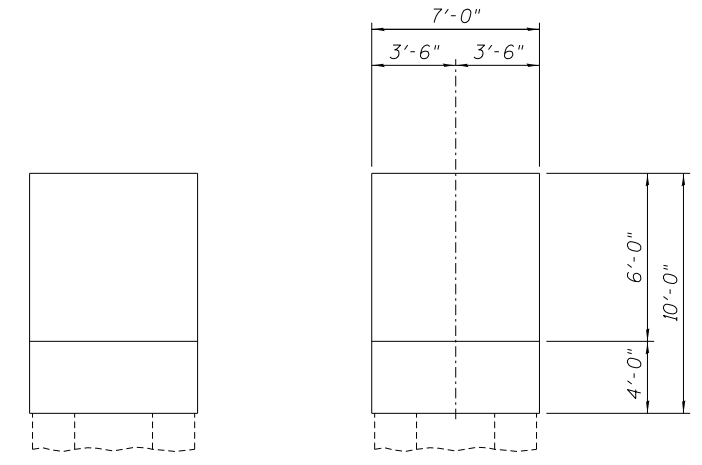
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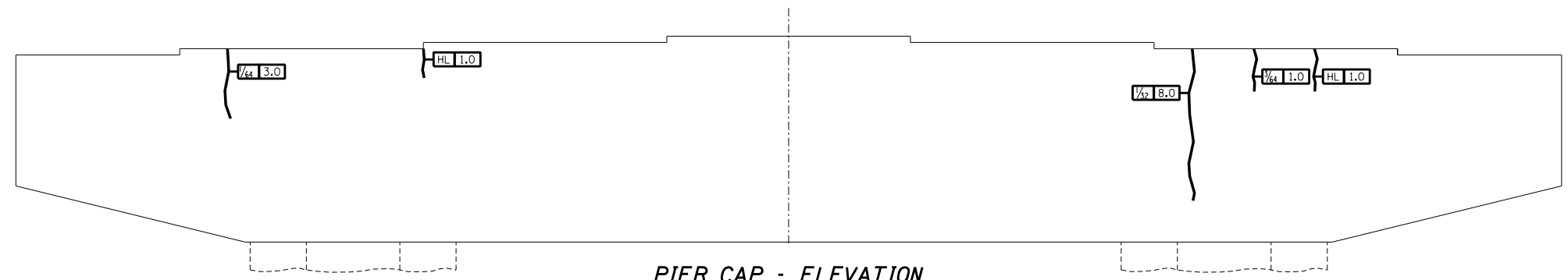
**PIER CAP - PLAN - PIER 1**



**PIER CAP - ELEVATION**  
Looking North

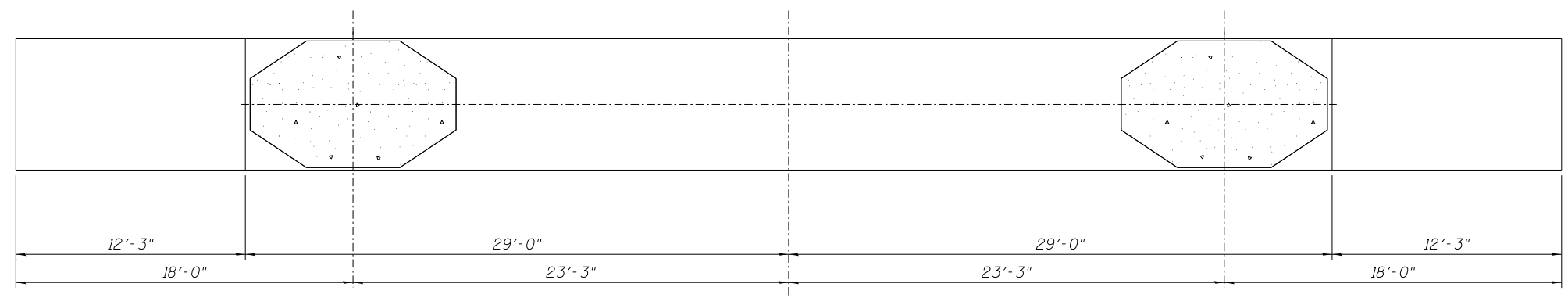


**PIER CAP - END ELEVATIONS**



**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**

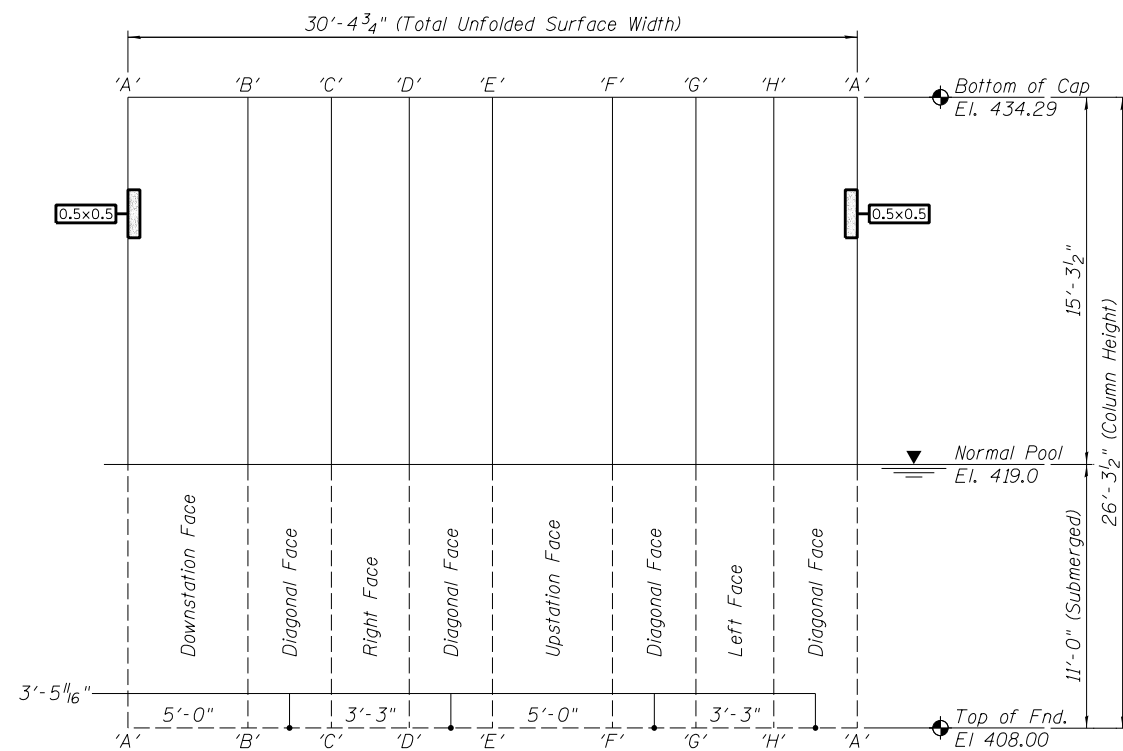
DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

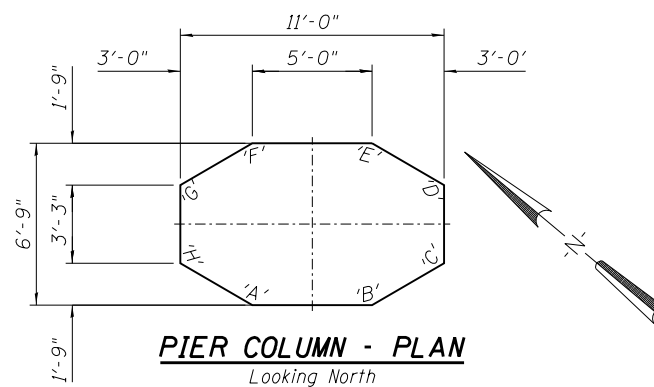
REPAIRS TO - PIER NUMBER 1 - CAP  
STRUCTURE NO. 060-0255

SHEET NO. 18 OF 48 SHEETS

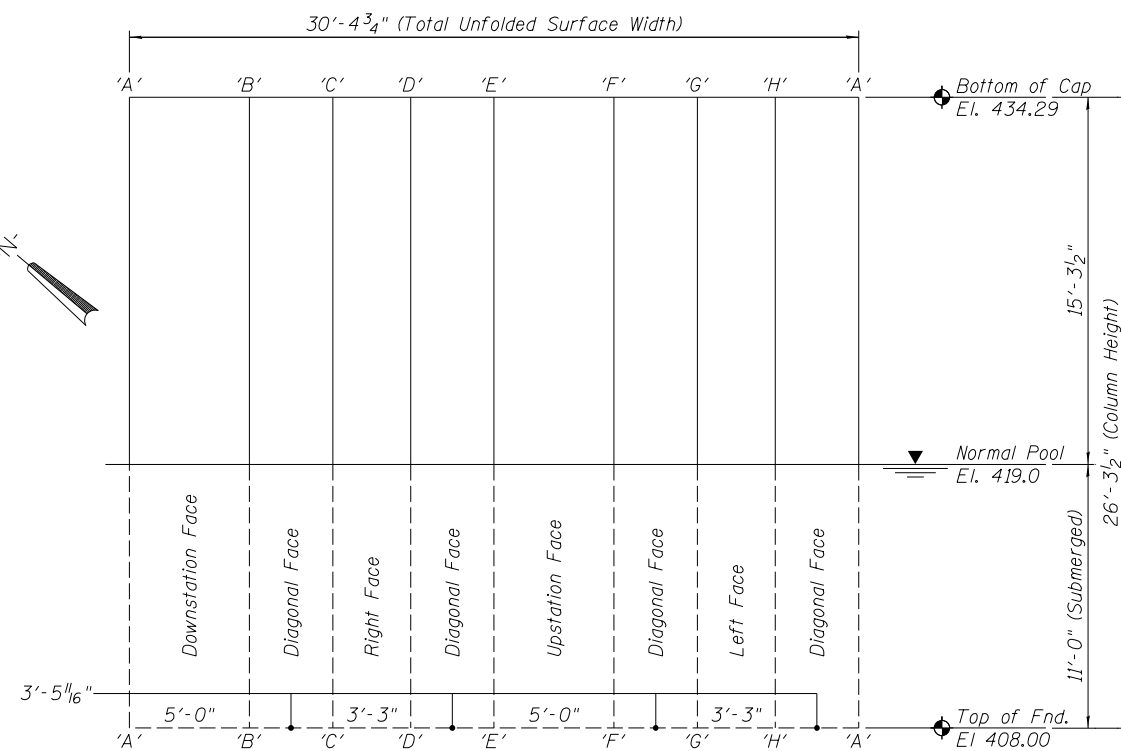
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	28
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				



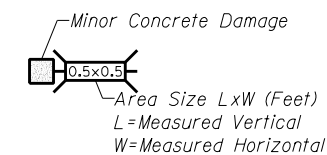
**PIER NO. 1 - ELEVATION - LEFT COLUMN**  
 Column Surface Shown Unfolded



**PIER COLUMN - PLAN**  
 Looking North



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



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

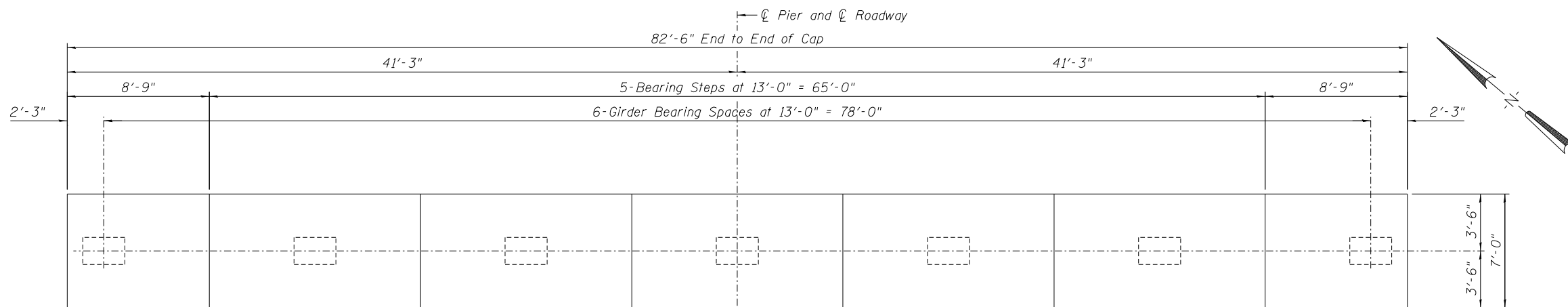
DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

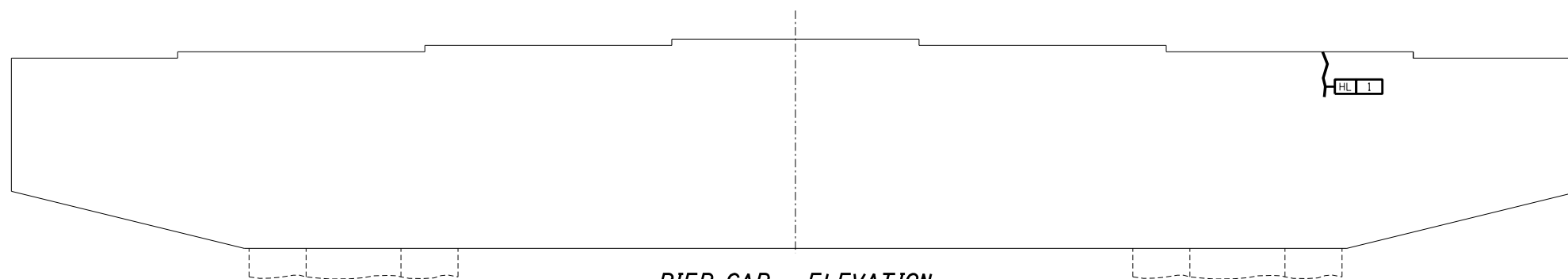
**REPAIRS TO - PIER NUMBER 1 - COLUMNS  
 STRUCTURE NO. 060-0255**

SHEET NO. 19 OF 48 SHEETS

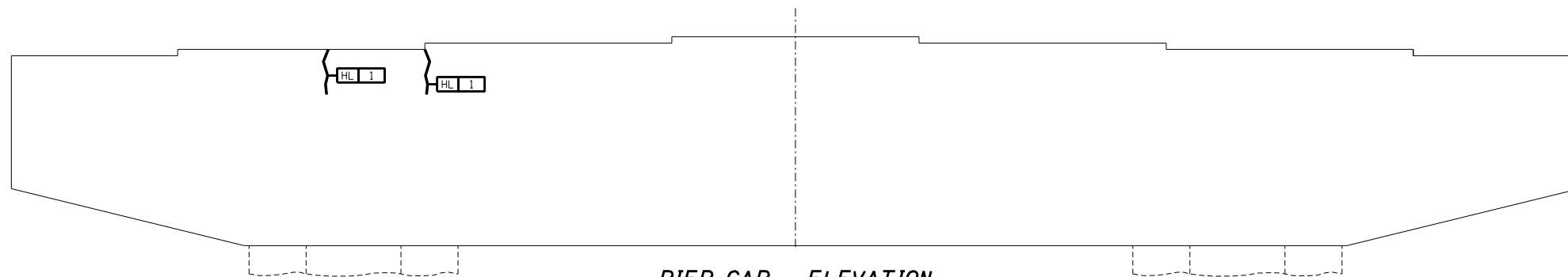
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	29
<b>CONTRACT NO. 76E73</b>				
ILLINOIS FED. AID PROJECT				



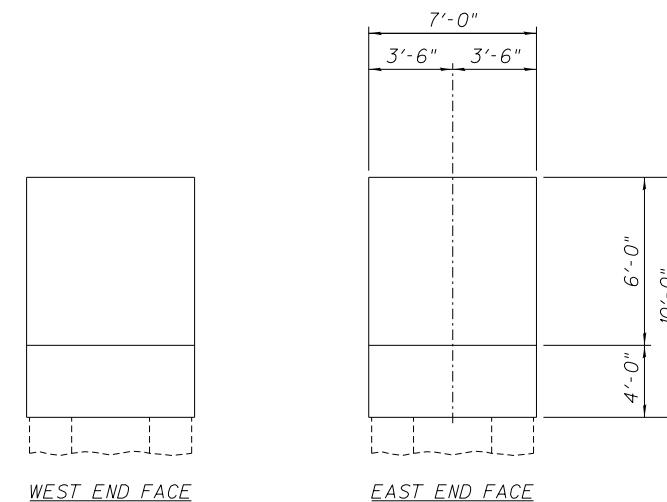
**PIER CAP - PLAN - PIER 2**



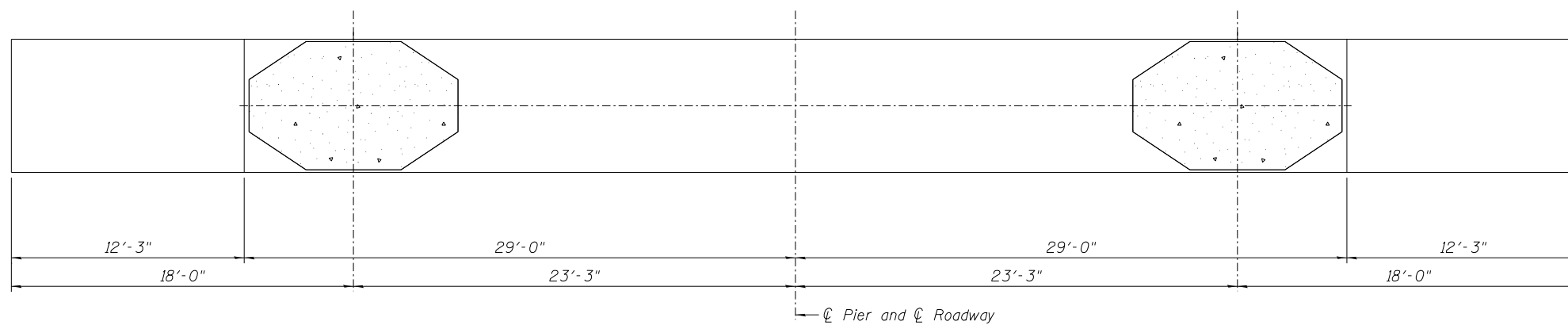
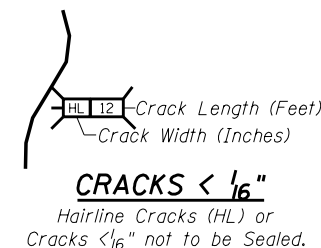
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - END ELEVATIONS**



**PIER CAP - UNDERSIDE**

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

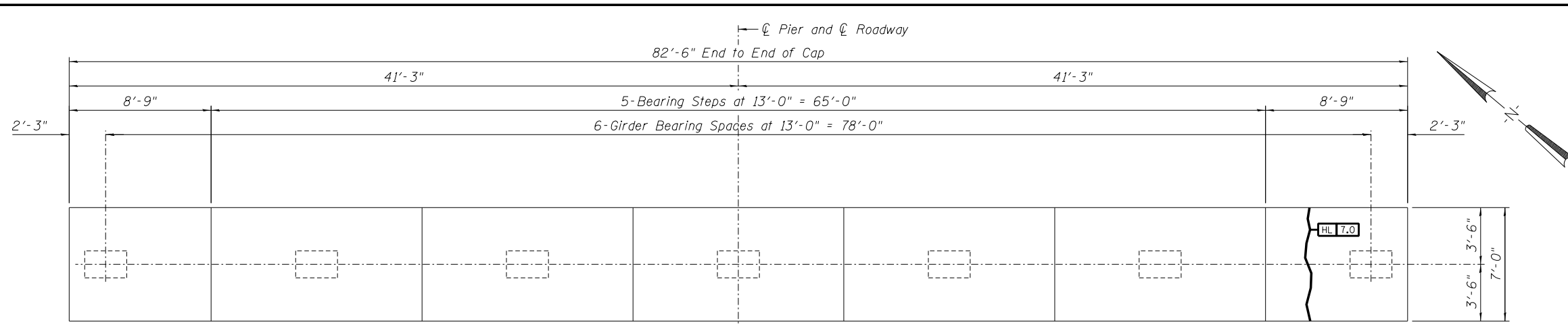
**REPAIRS TO - PIER NUMBER 2 - CAP  
STRUCTURE NO. 060-0255**

SHEET NO. 20 OF 48 SHEETS

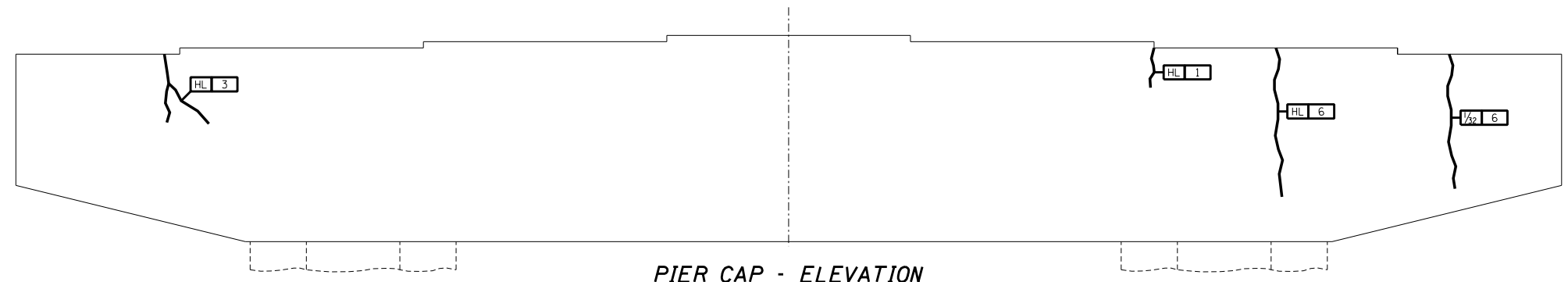
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	30
<b>CONTRACT NO. 76E73</b>				

ILLINOIS FED. AID PROJECT

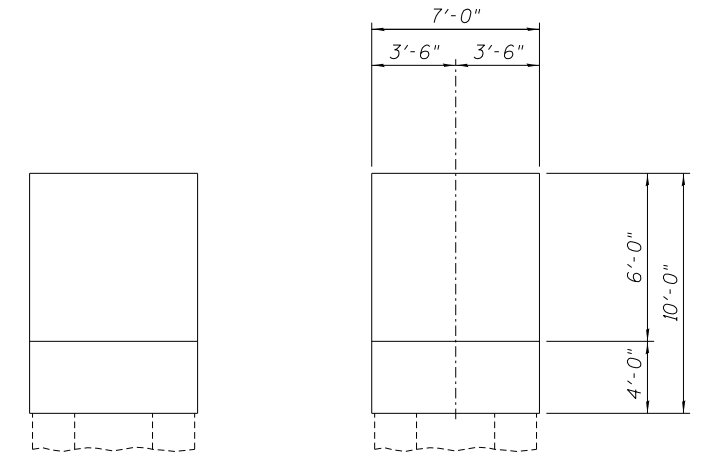




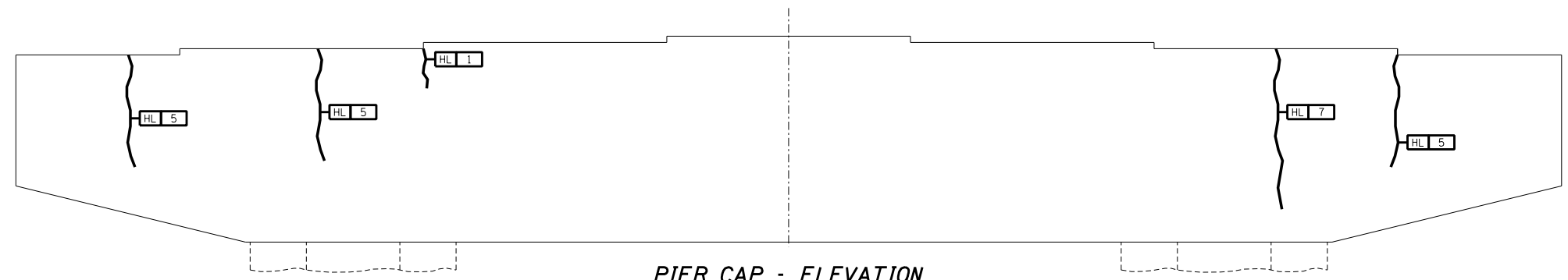
**PIER CAP - PLAN - PIER 3**



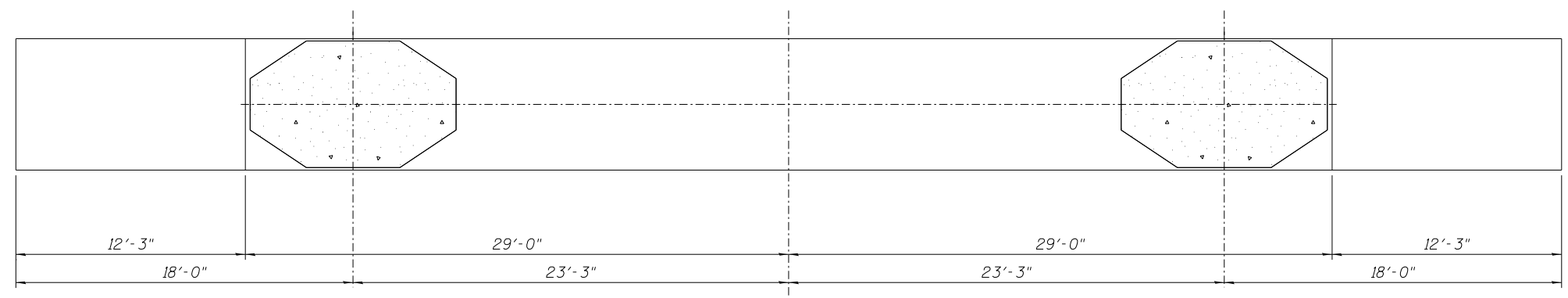
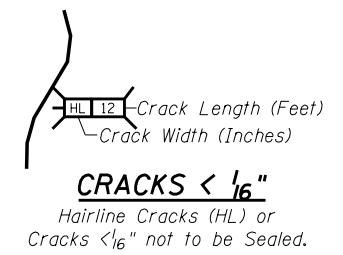
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - END ELEVATIONS**



**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - UNDERSIDE**

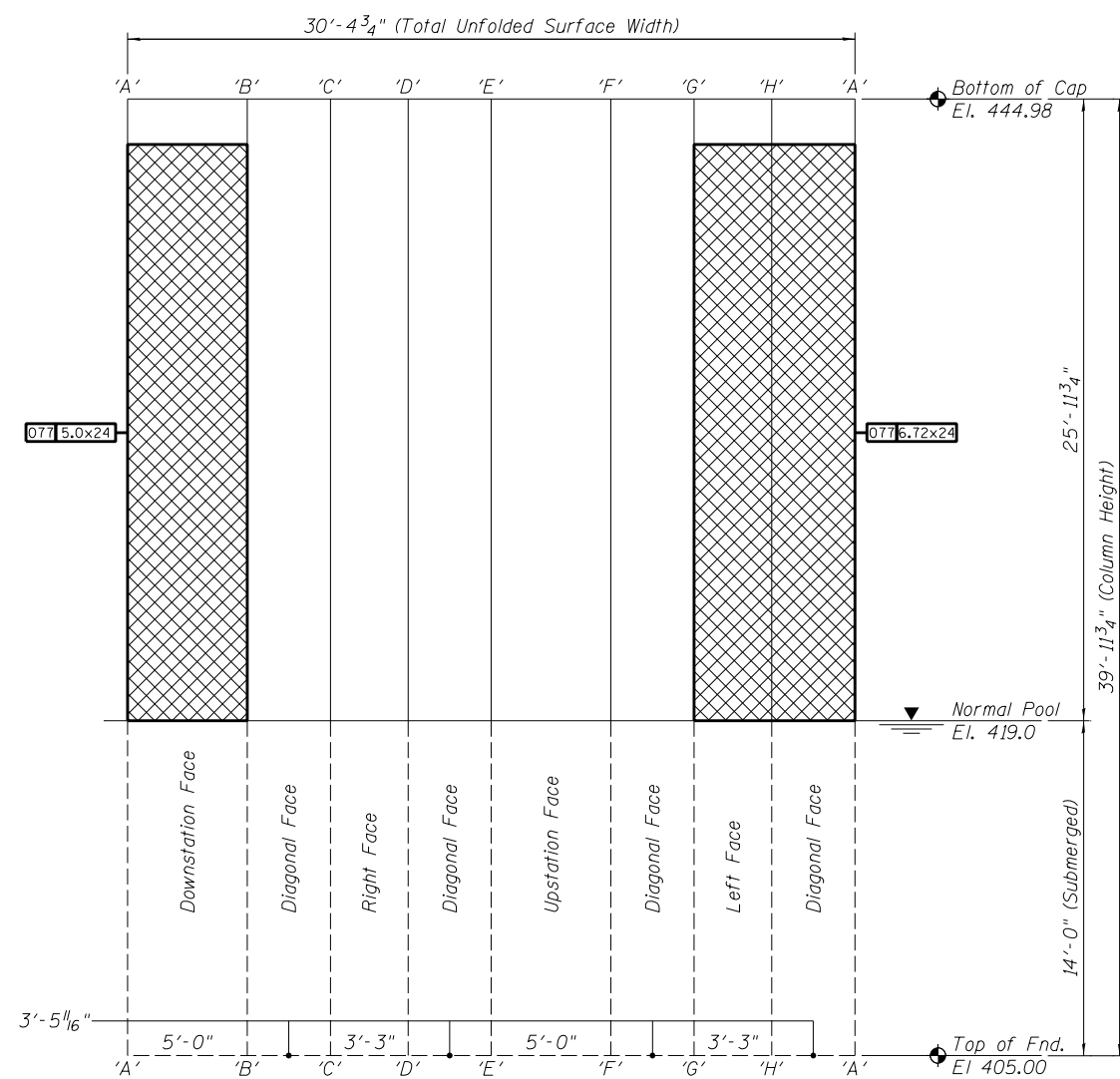
DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

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

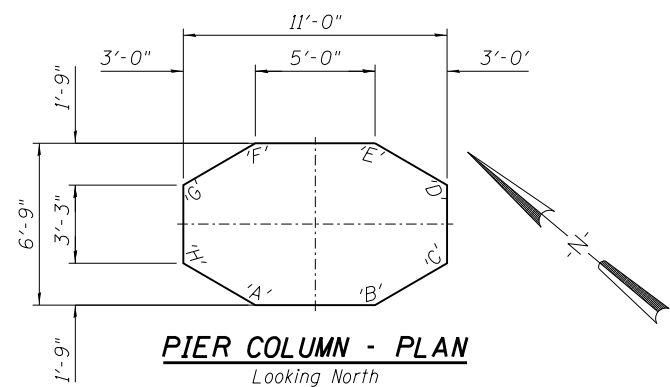
**REPAIRS TO - PIER NUMBER 3 - CAP**  
**STRUCTURE NO. 060-0255**

SHEET NO. 21 OF 48 SHEETS

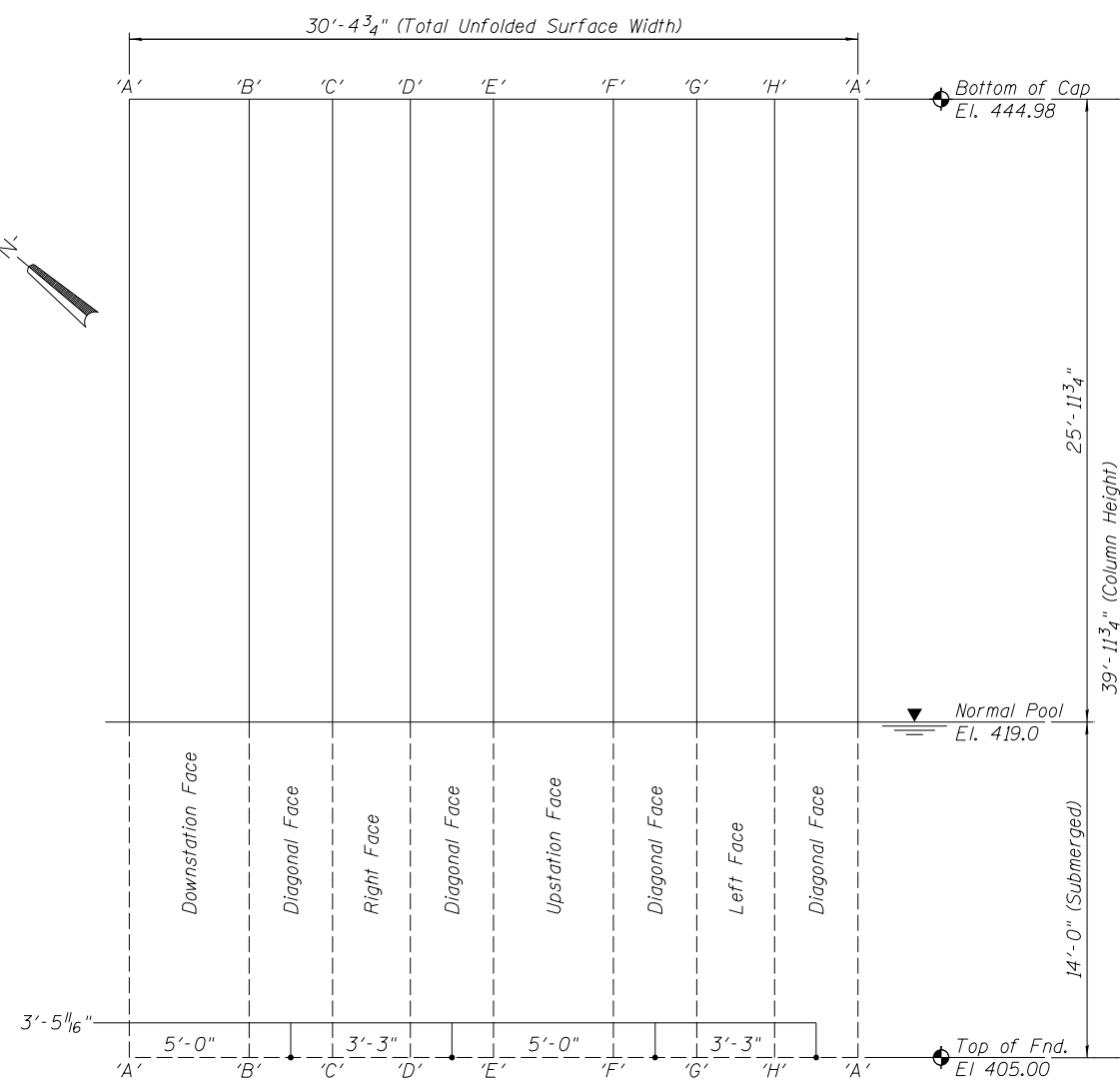
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	31
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				



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



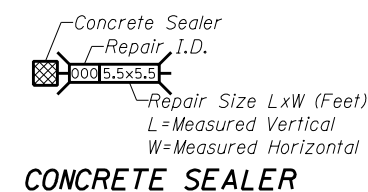
**PIER COLUMN - PLAN**  
 Looking North



**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**

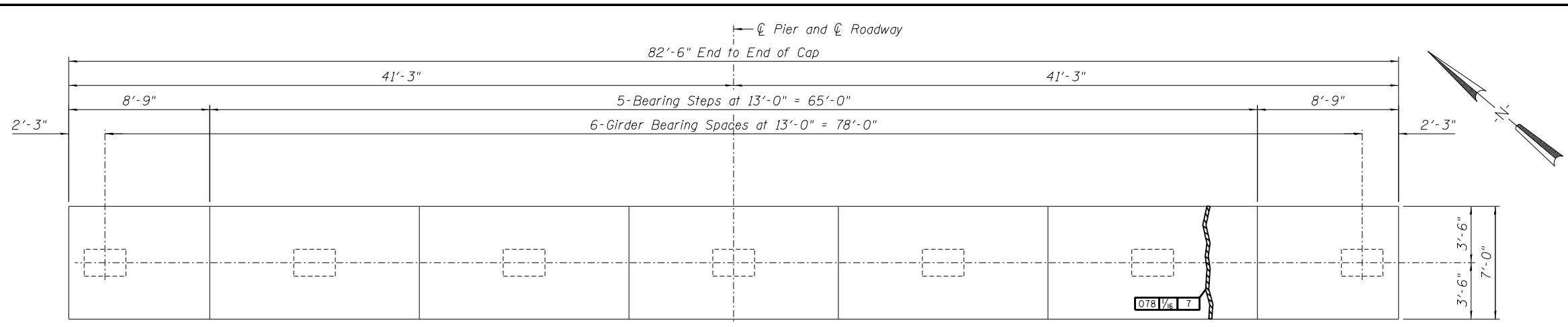
DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

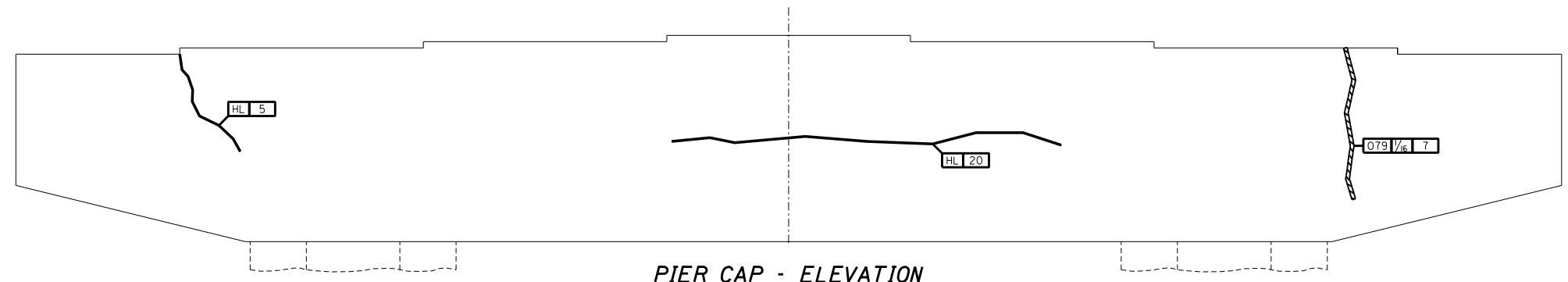
**REPAIRS TO - PIER NUMBER 3 - COLUMNS  
 STRUCTURE NO. 060-0255**

SHEET NO. 22 OF 48 SHEETS

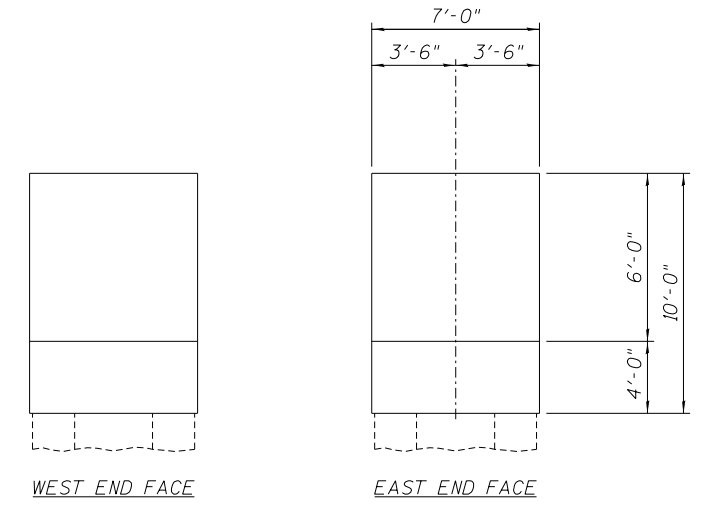
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-ID5-1	MADISON	58	32
<b>CONTRACT NO. 76E73</b>				
ILLINOIS FED. AID PROJECT				



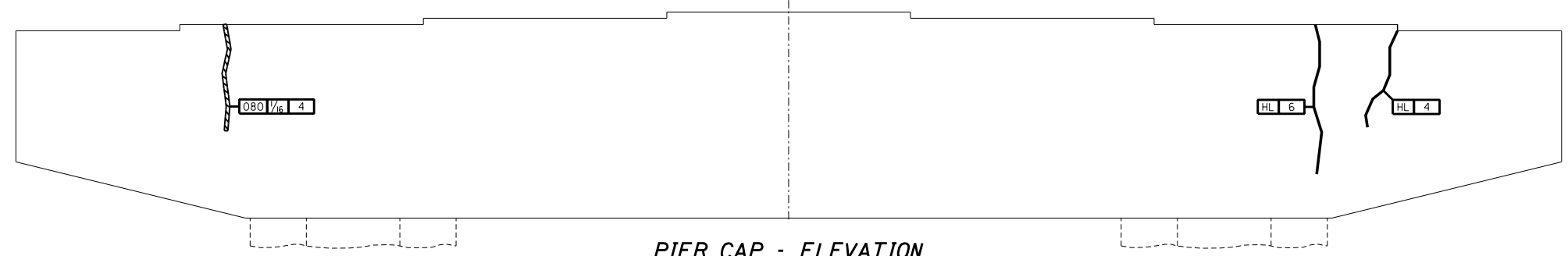
**PIER CAP - PLAN - PIER 4**



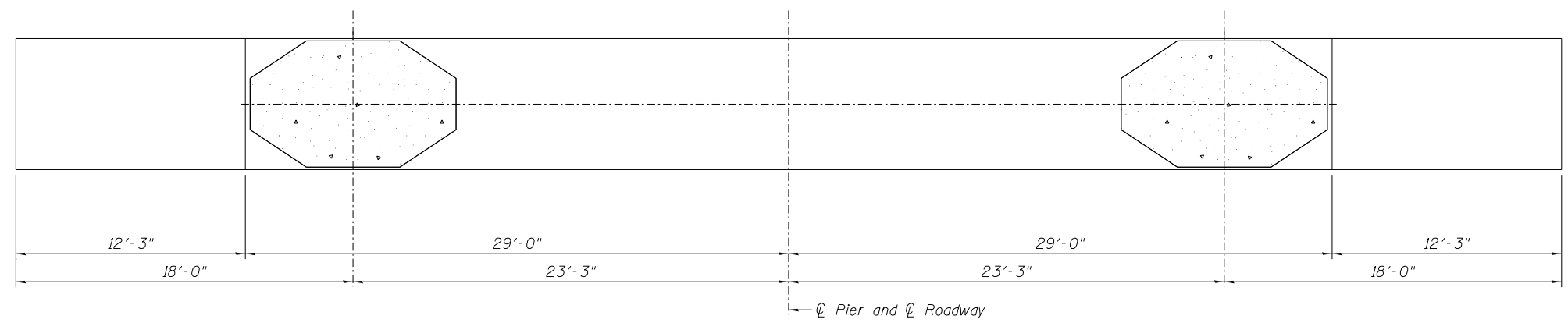
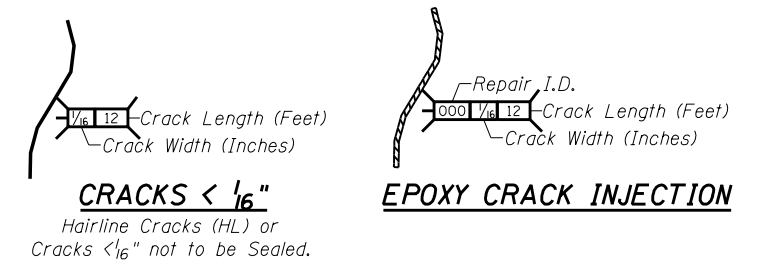
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - END ELEVATIONS**



**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - UNDERSIDE**

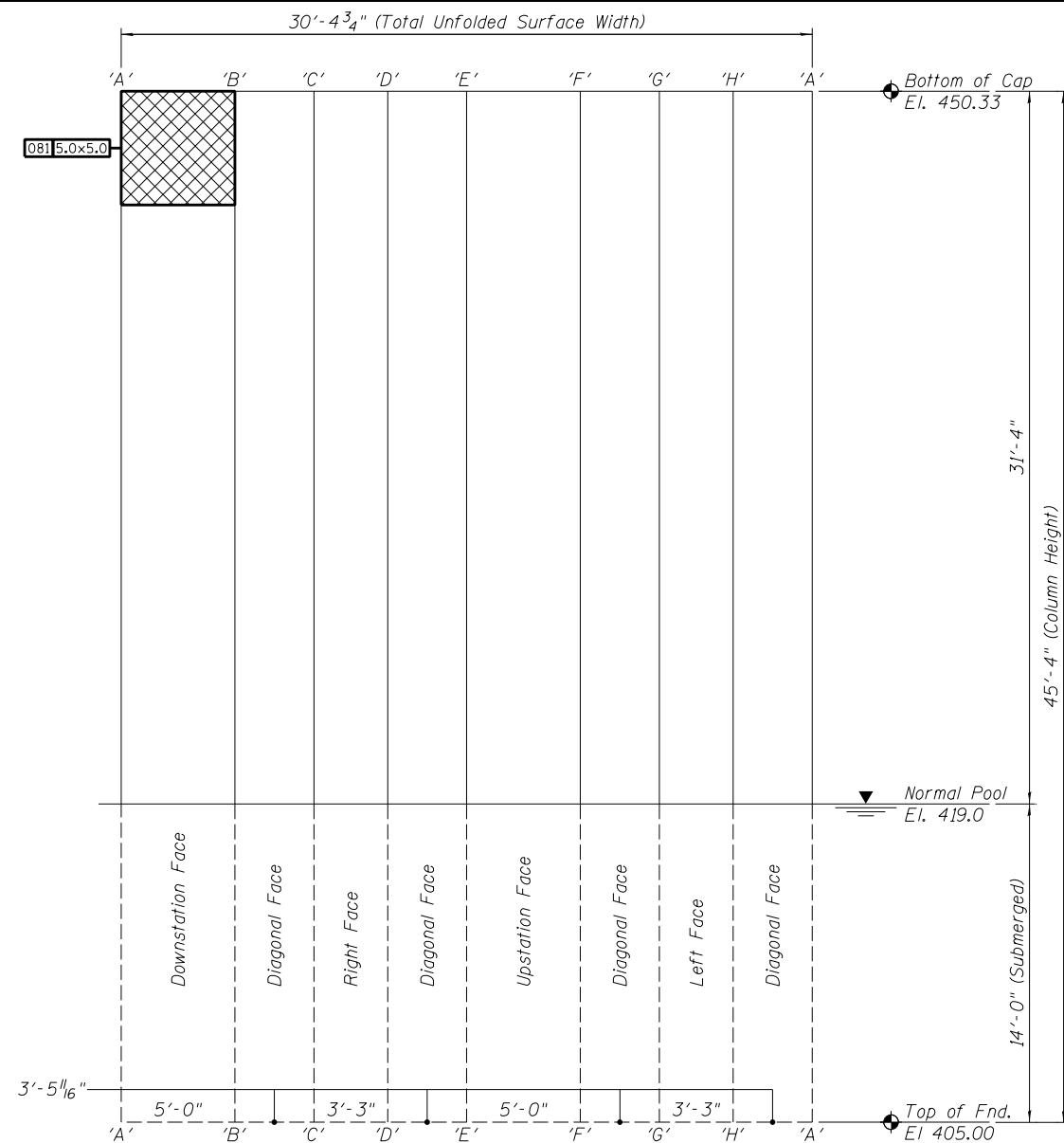
**REPAIRS LIST - PIER 4 - CAP**

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
-	-	-	-	-
-	-	-	-	-

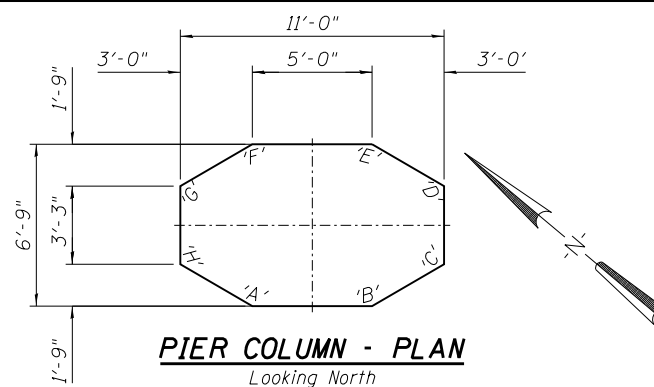


© Copyright Hanson Professional Services Inc. 2012

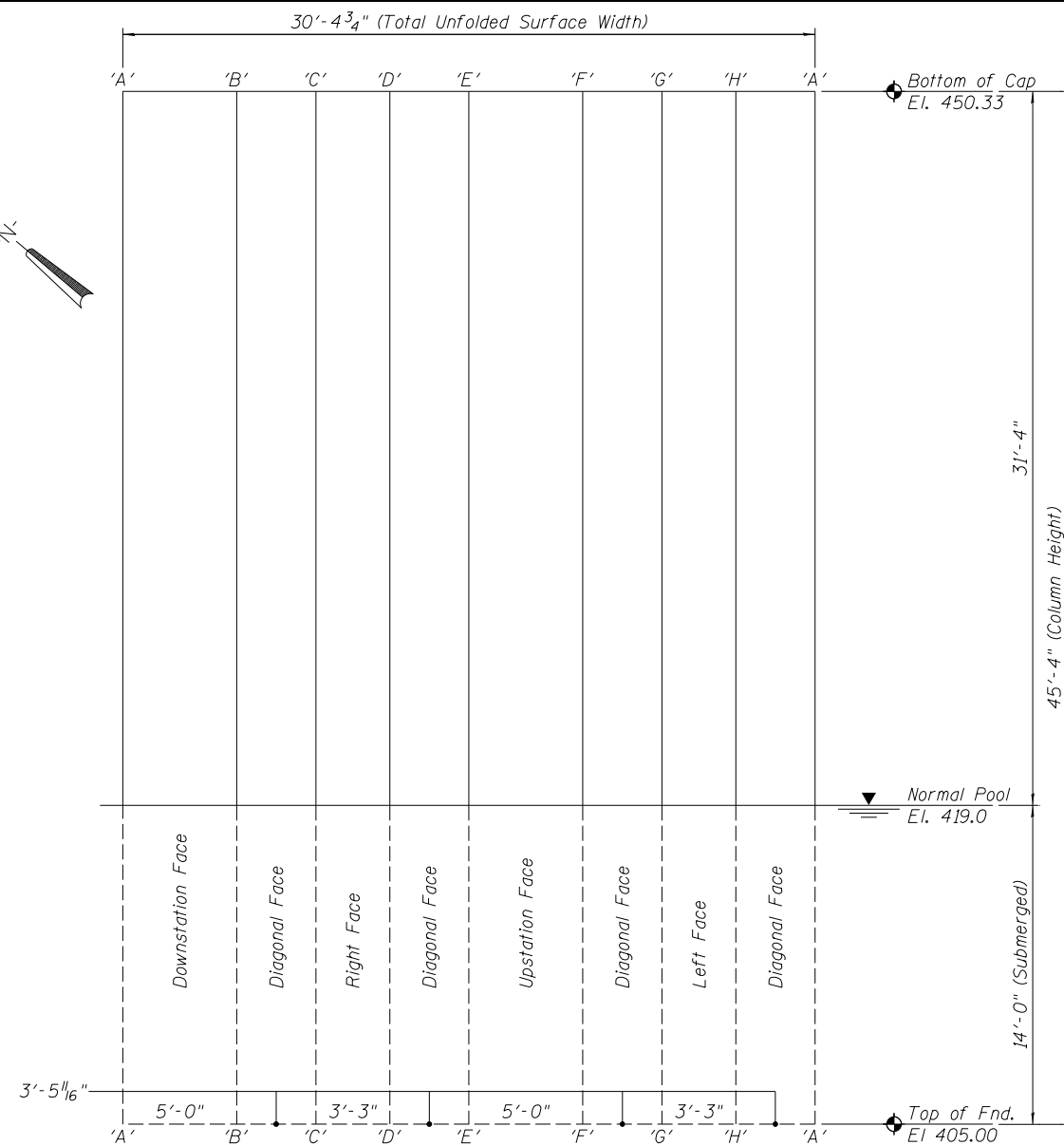
huffm0028 10/17/2012 12:06:58 PM  
 I:\Jobs\110007\W04\CAD\SH000255-76E73-024-Pier-4\_Column\_Repair.sgn



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



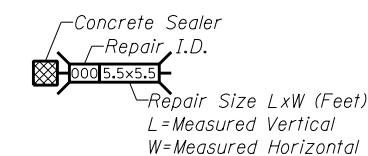
**PIER COLUMN - PLAN**  
Looking North



**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**

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

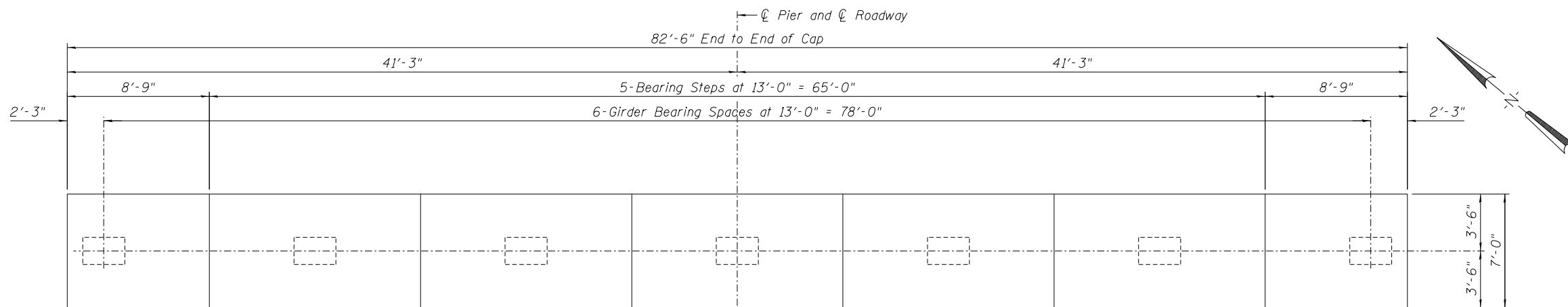
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

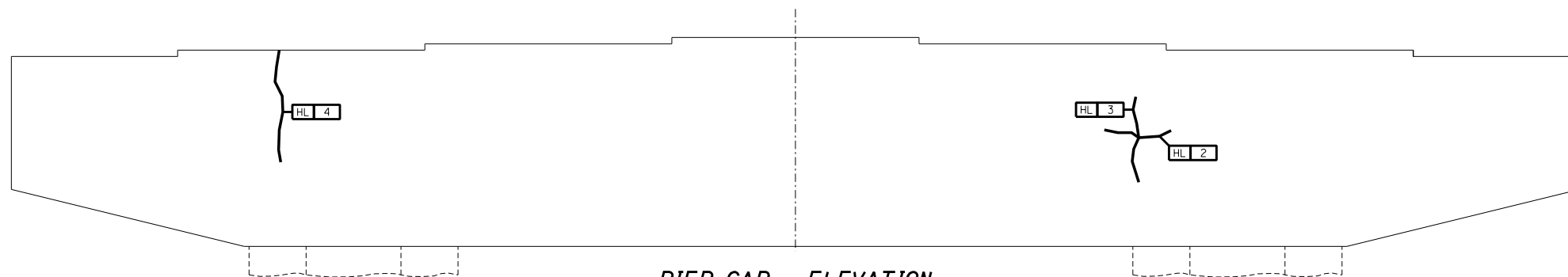
SHEET NO. 24 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1D5-1	MADISON	58	34
<b>CONTRACT NO. 76E73</b>				

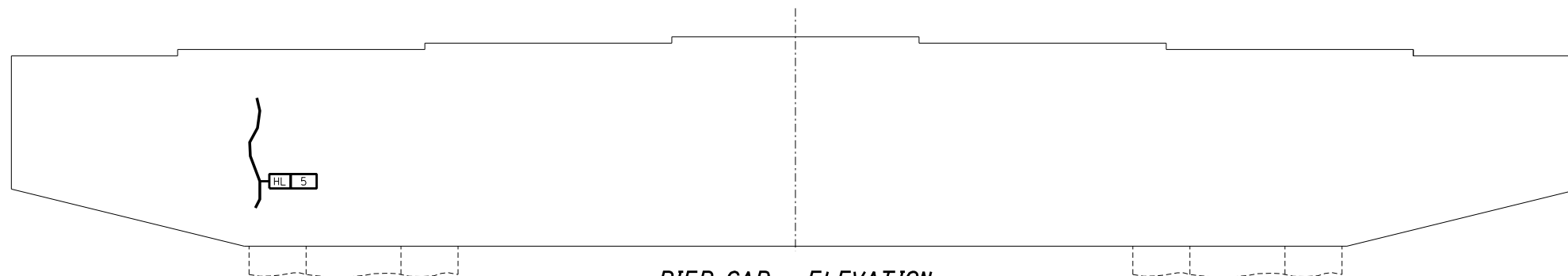
ILLINOIS FED. AID PROJECT



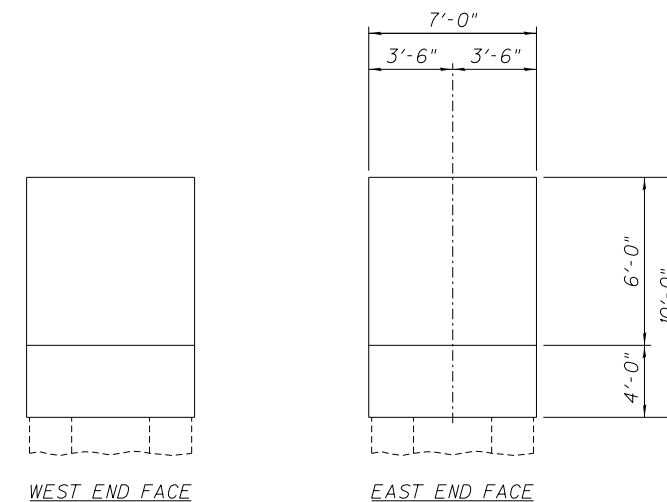
**PIER CAP - PLAN - PIER 5**



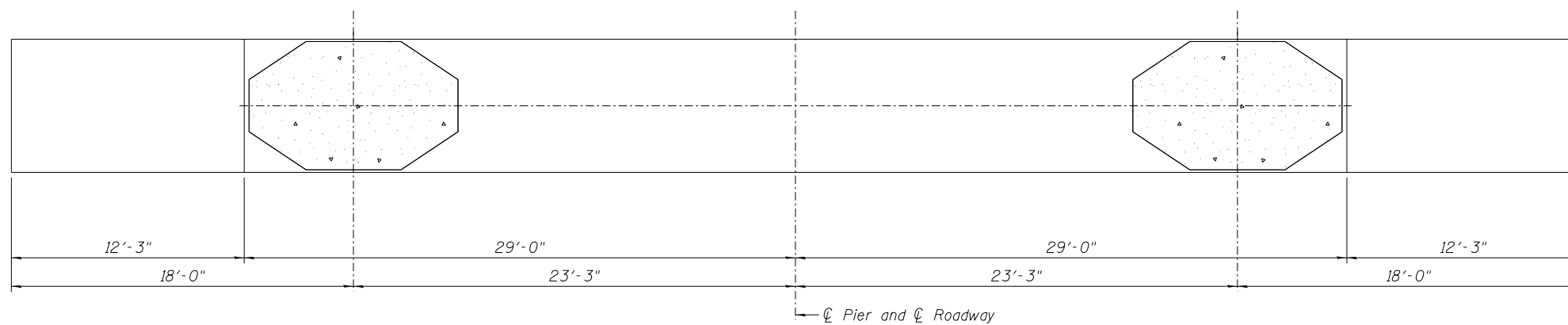
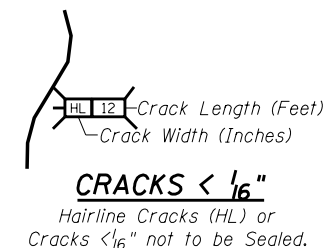
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - END ELEVATIONS**



**PIER CAP - UNDERSIDE**

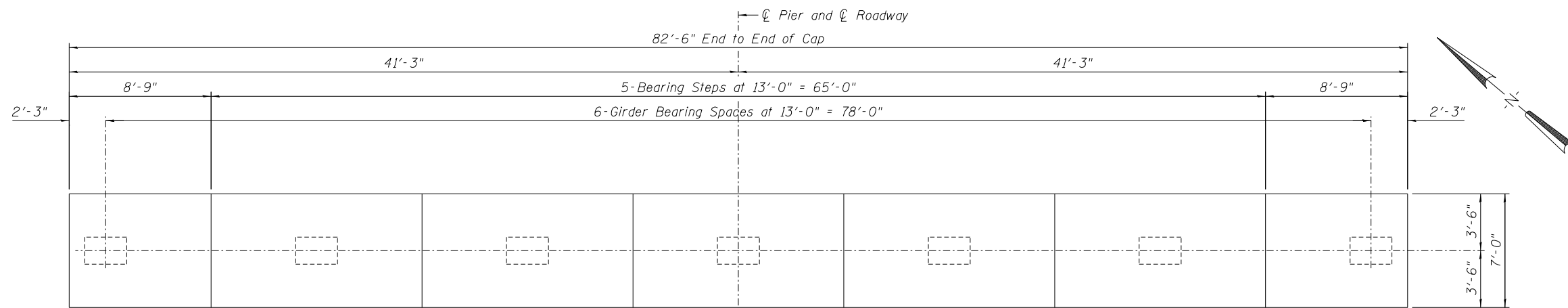
DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

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

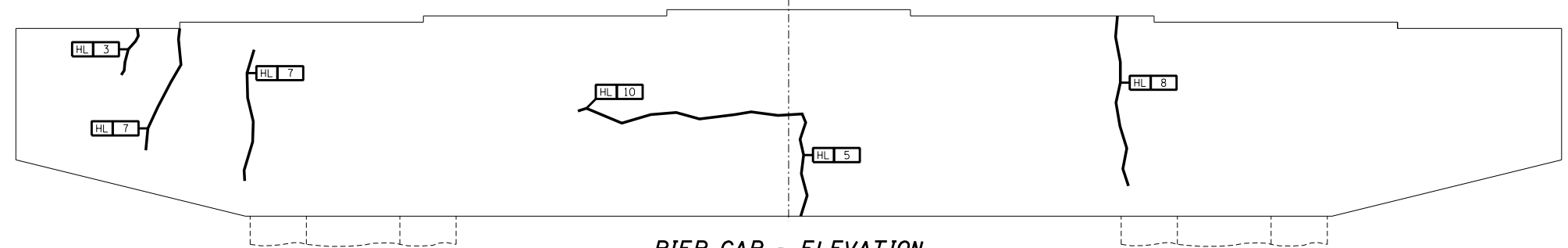
**REPAIRS TO - PIER NUMBER 5 - CAP**  
**STRUCTURE NO. 060-0255**

SHEET NO. 25 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	35
<b>CONTRACT NO. 76E73</b>				
ILLINOIS FED. AID PROJECT				



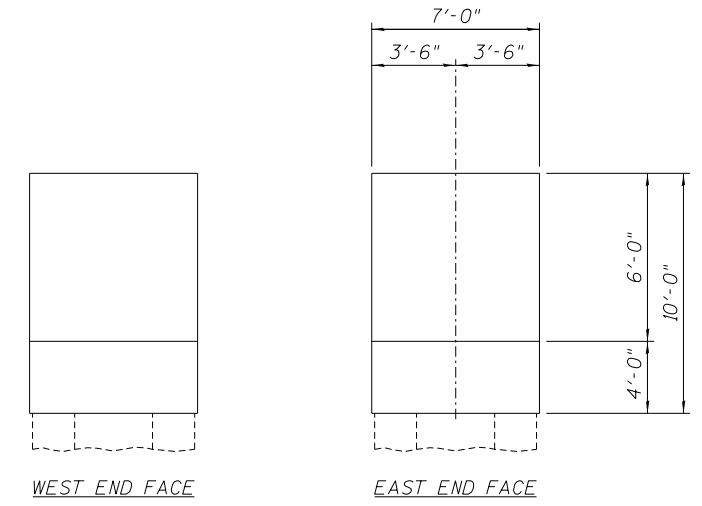
**PIER CAP - PLAN - PIER 6**



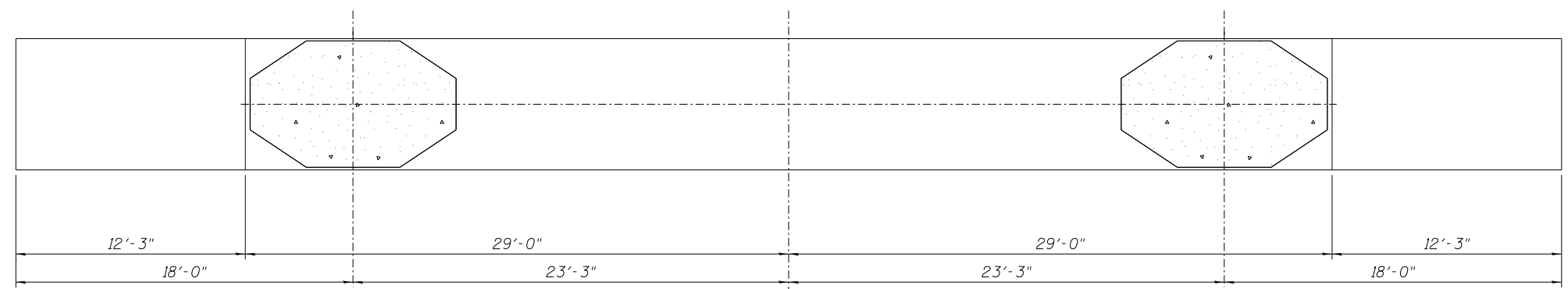
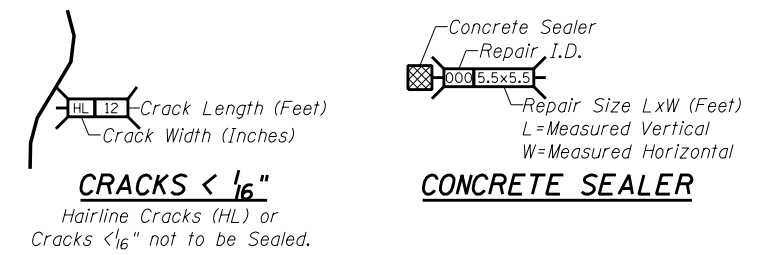
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - END ELEVATIONS**



**PIER CAP - UNDERSIDE**

**REPAIRS LIST - PIER 6 - CAP**

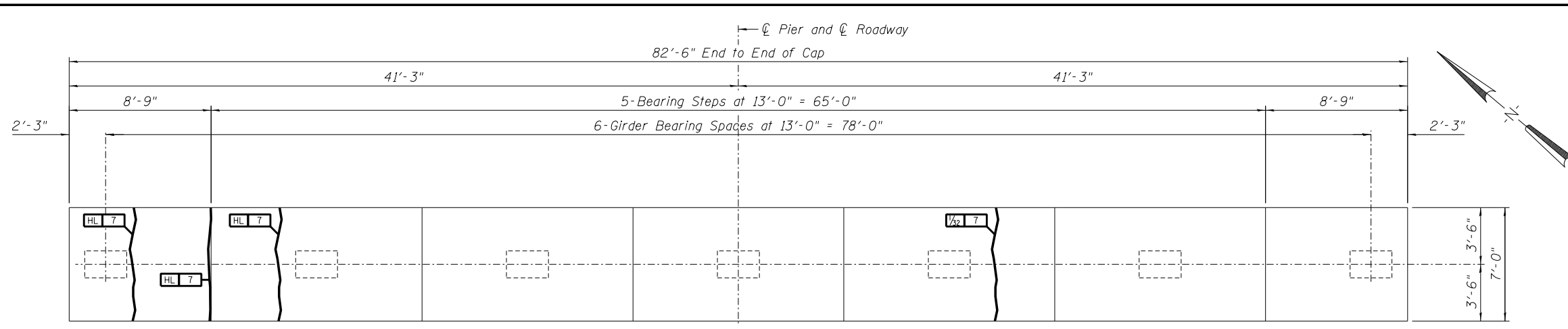
I.D.	Description	Pay Item	Units	Quantity
082	Map Cracking	Concrete Sealer	SQ. FT.	2.3
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

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

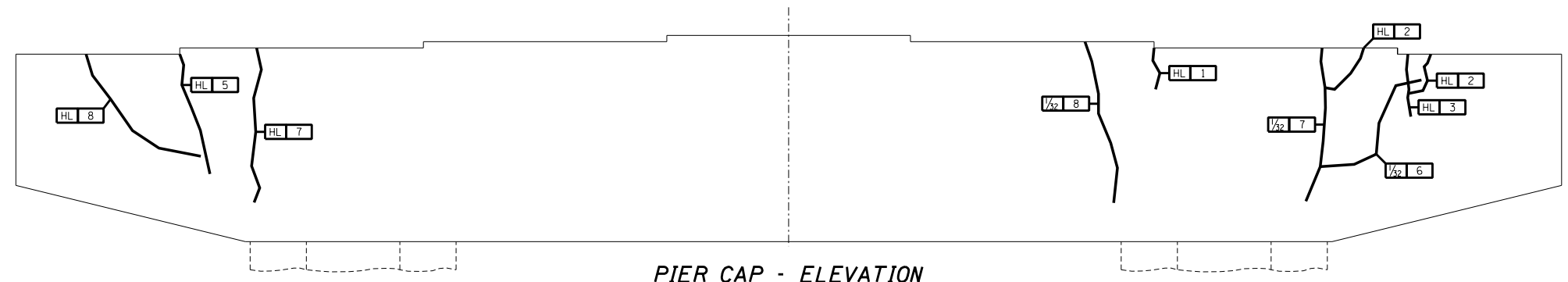
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REPAIRS TO - PIER NUMBER 6 - CAP**  
**STRUCTURE NO. 060-0255**

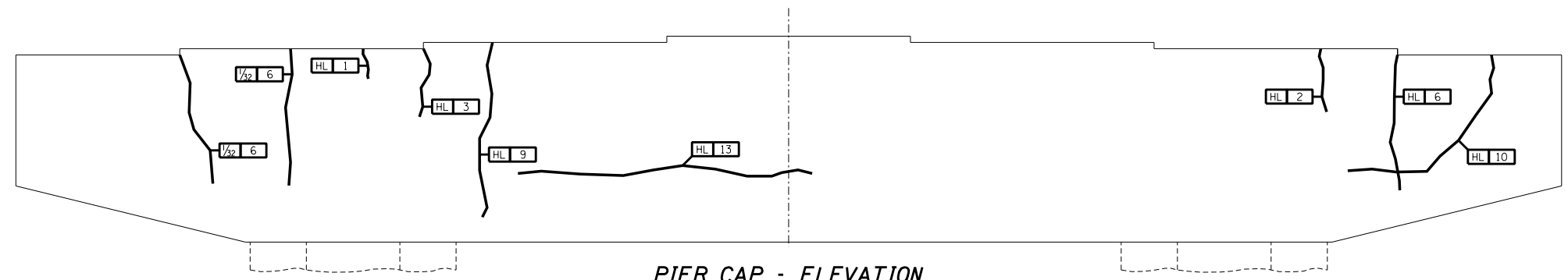
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	36
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	



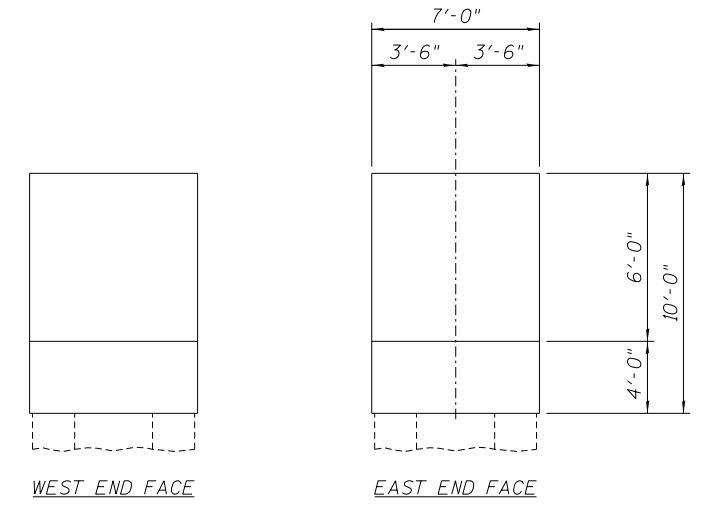
**PIER CAP - PLAN - PIER 7**



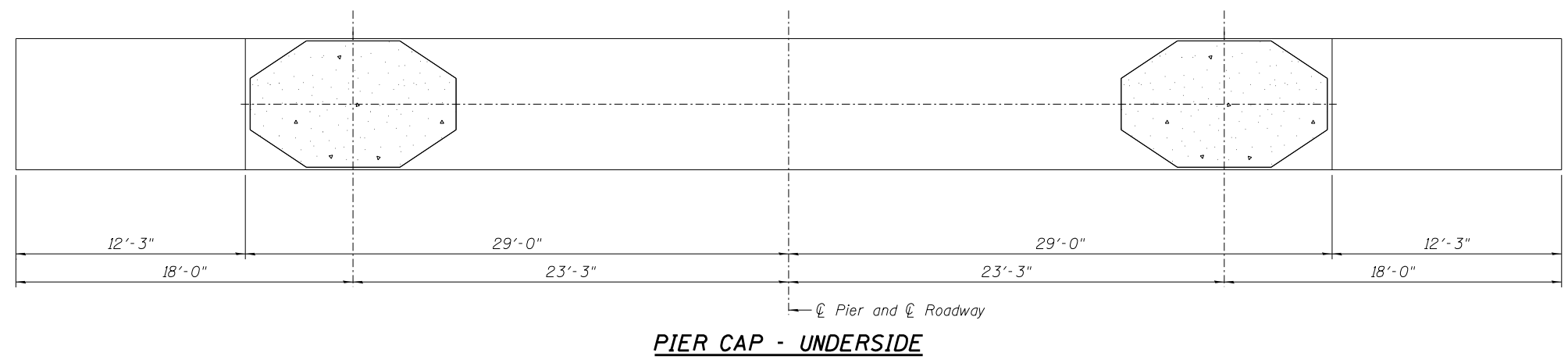
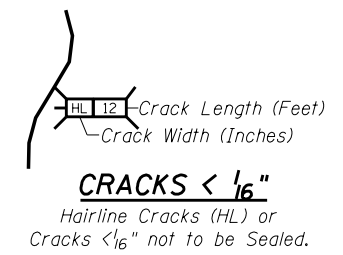
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - ELEVATION**  
Looking South

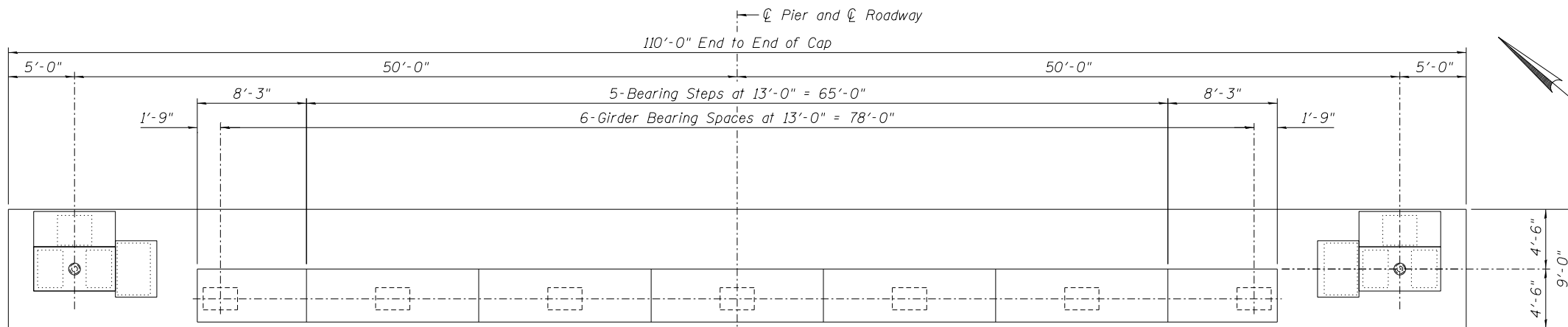


**PIER CAP - END ELEVATIONS**

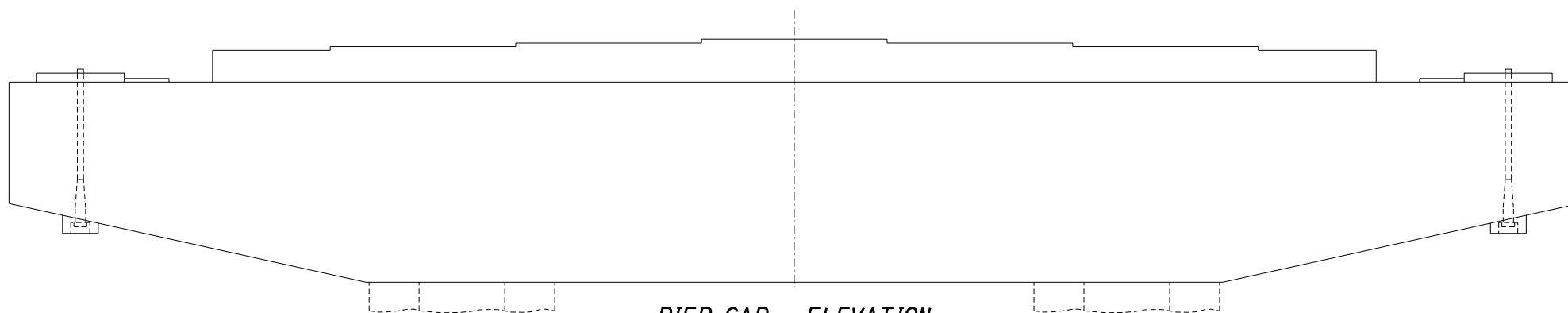


**PIER CAP - UNDERSIDE**

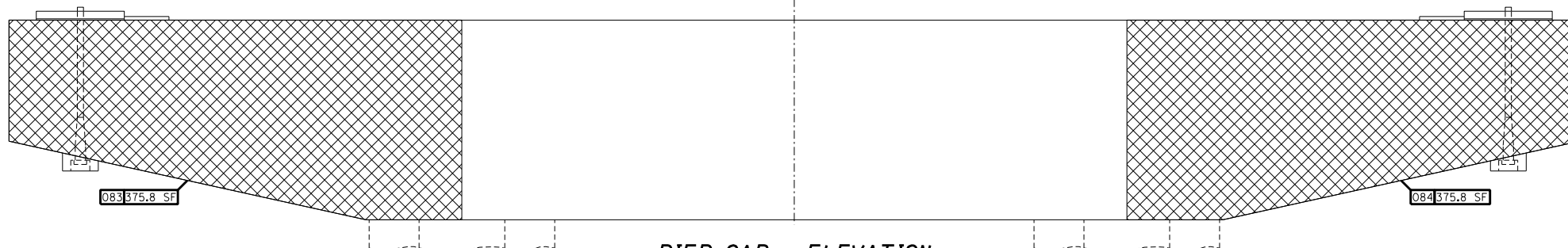
DESIGNED -	EXAMINED _____	DATE - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - PIER NUMBER 7 - CAP STRUCTURE NO. 060-0255</b>	F.A.P. RTE. 304	SECTION 100B-IDS-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 37	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES				<b>CONTRACT NO. 76E73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



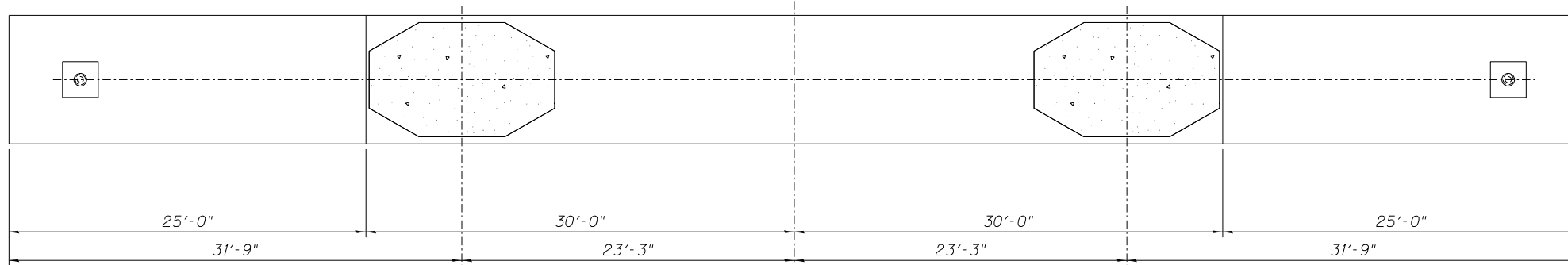
**PIER CAP - PLAN - PIER 8**



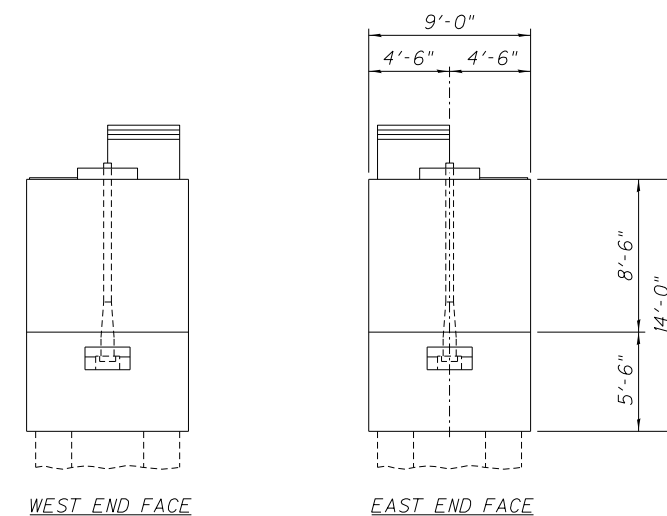
**PIER CAP - ELEVATION**  
Looking North



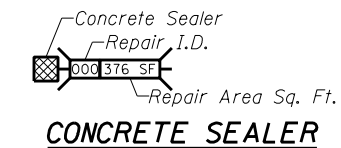
**PIER CAP - ELEVATION**  
Looking South



**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 - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

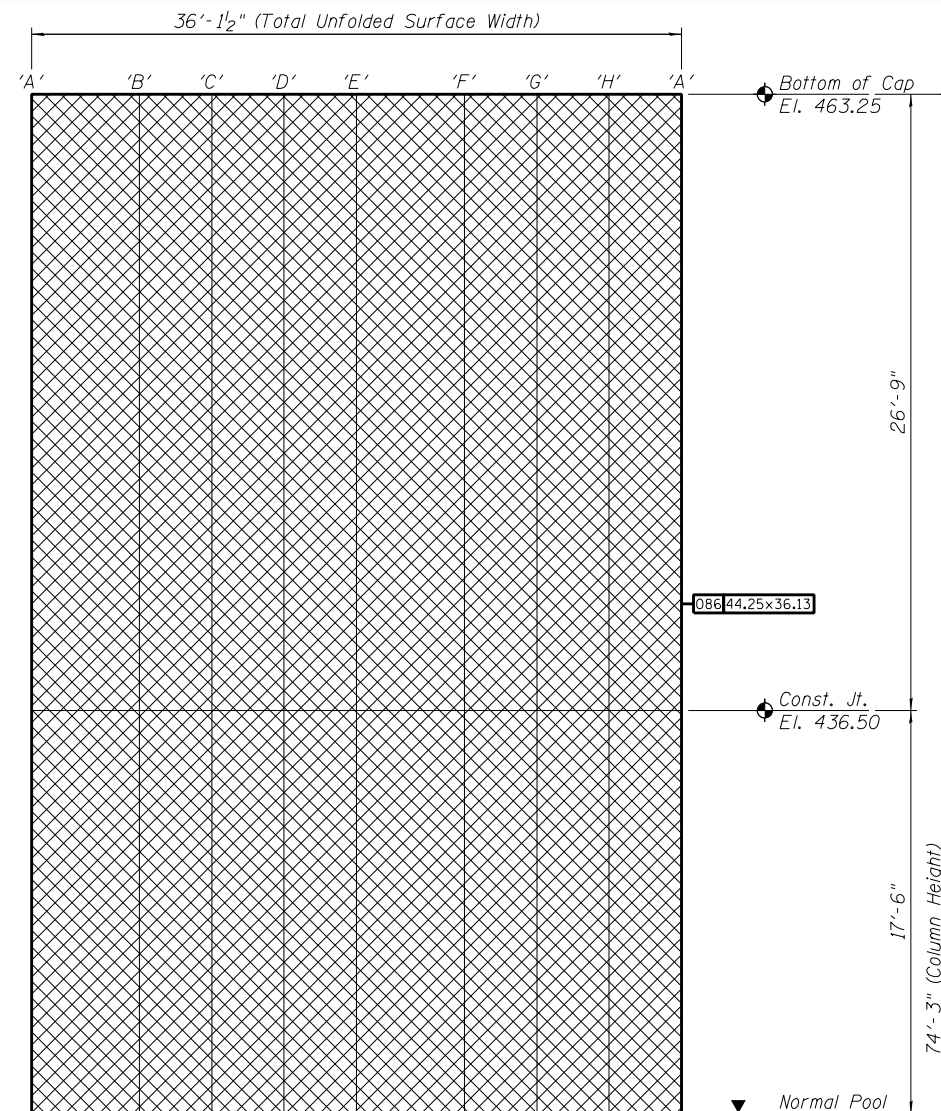
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

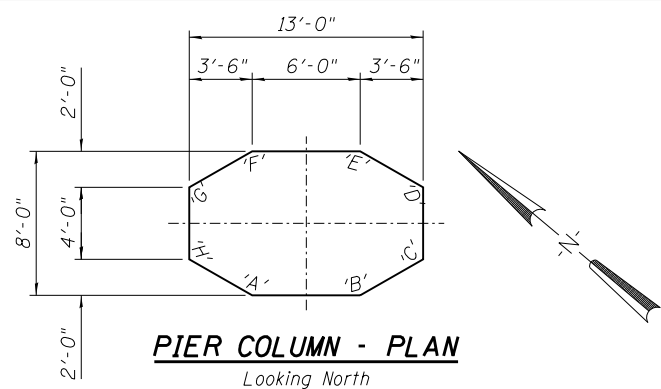
SHEET NO. 28 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	38
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				

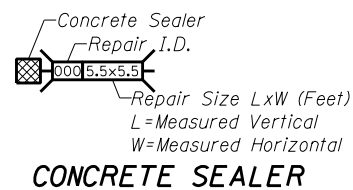




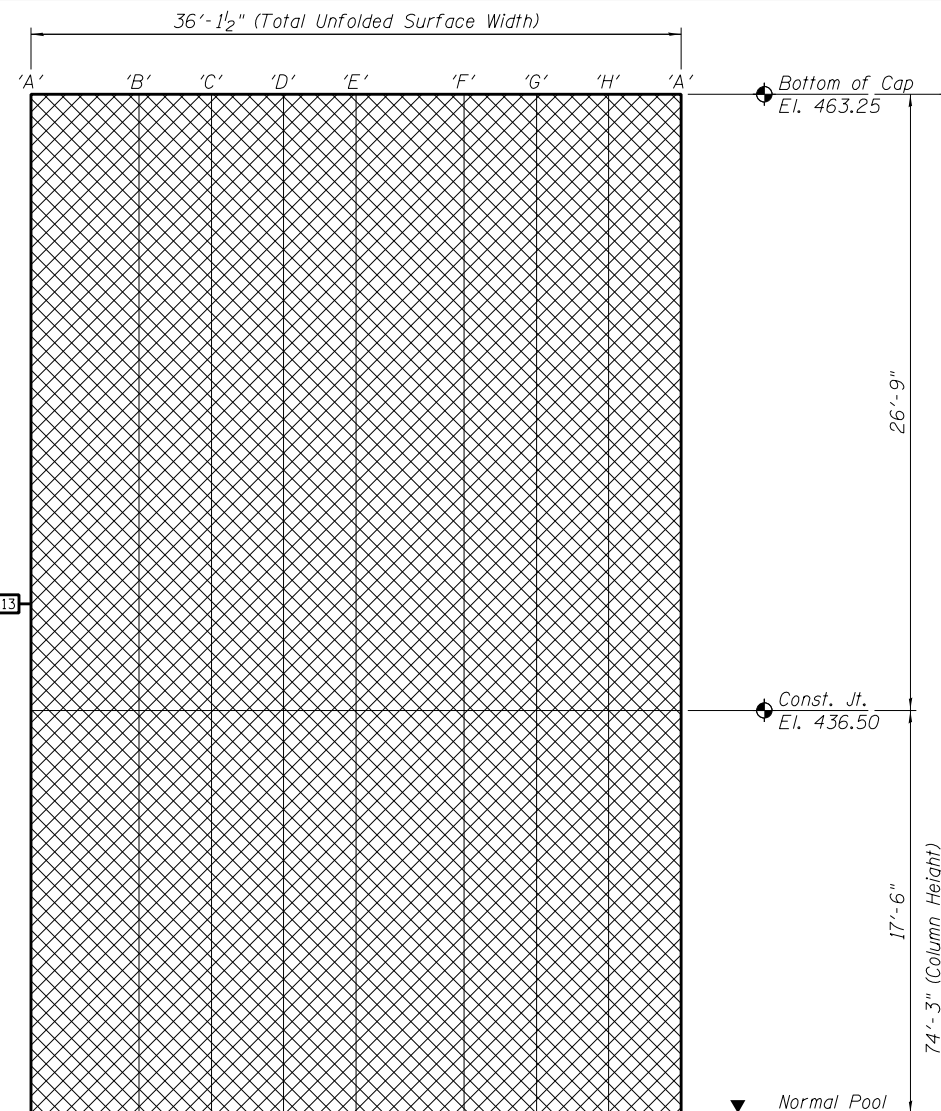
**PIER NO. 8 - ELEVATION - LEFT COLUMN**  
 Column Surface Shown Unfolded



**PIER COLUMN - PLAN**  
 Looking North



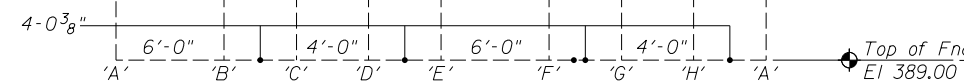
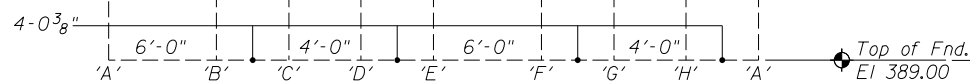
**CONCRETE SEALER**



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

**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
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



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

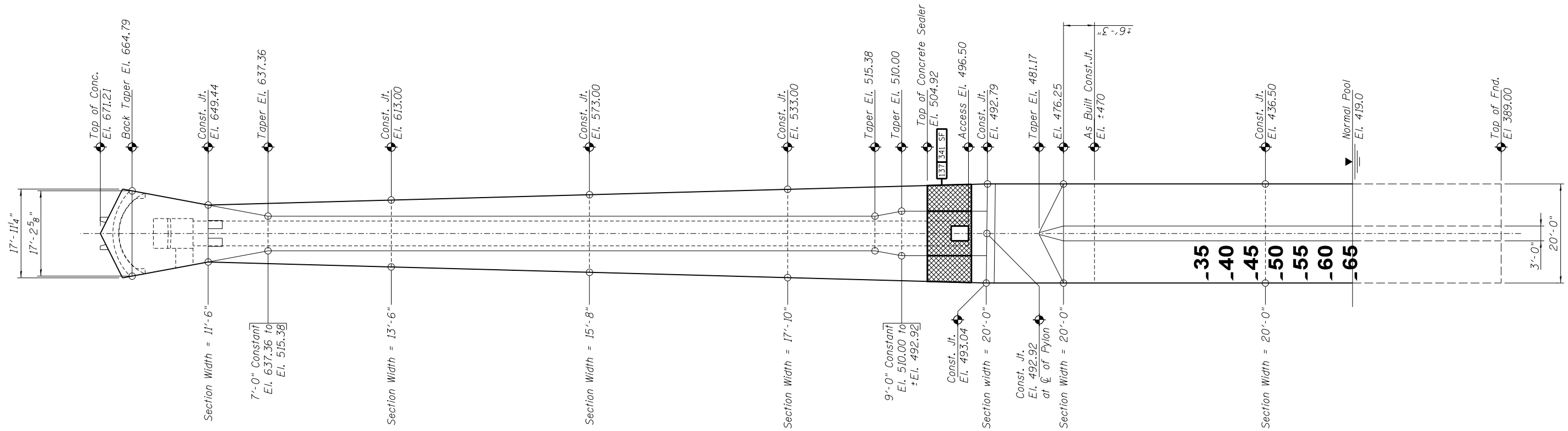
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

SHEET NO. 29 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	39
<b>CONTRACT NO. 76E73</b>				

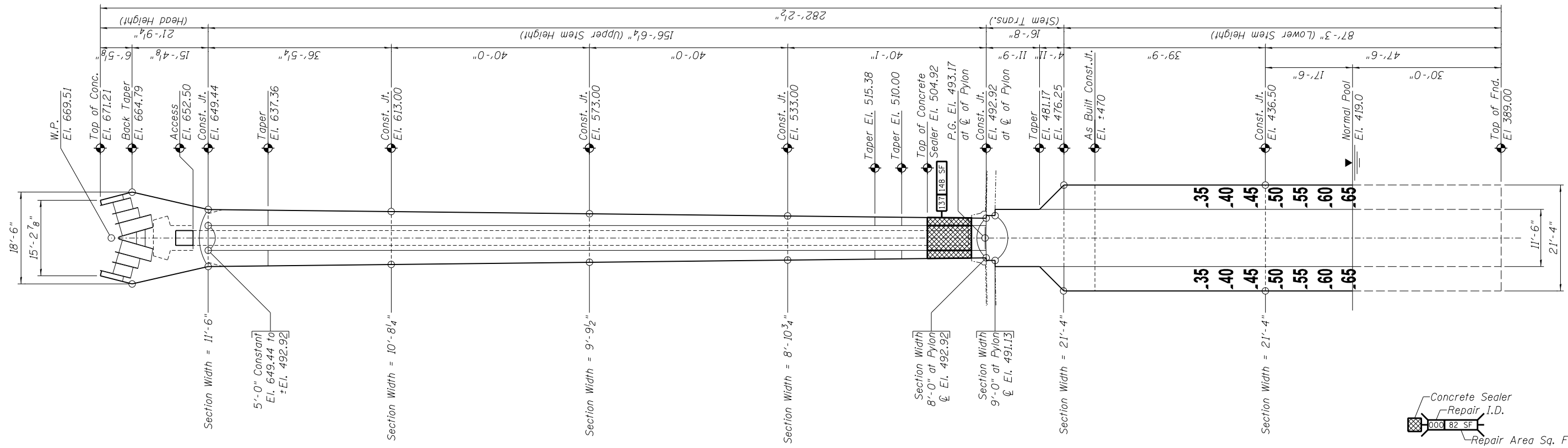
ILLINOIS FED. AID PROJECT



**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



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

Concrete Sealer  
 Repair I.D.  
 1371.48 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	

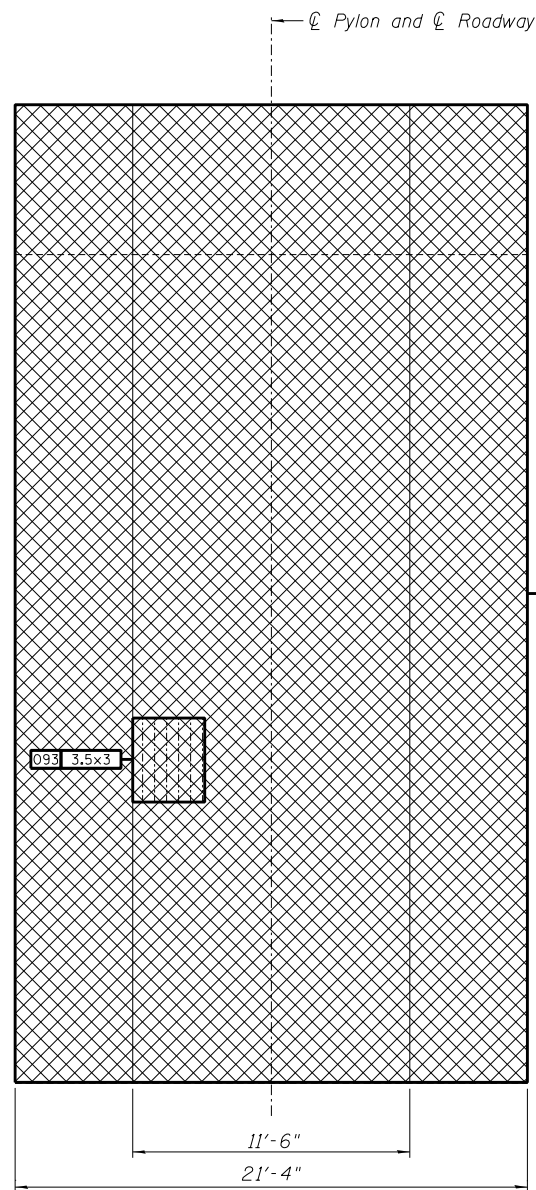
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REFERENCE SHEET - PIER NUMBER 9 - MISSOURI PYLON  
 STRUCTURE NO. 060-0255**

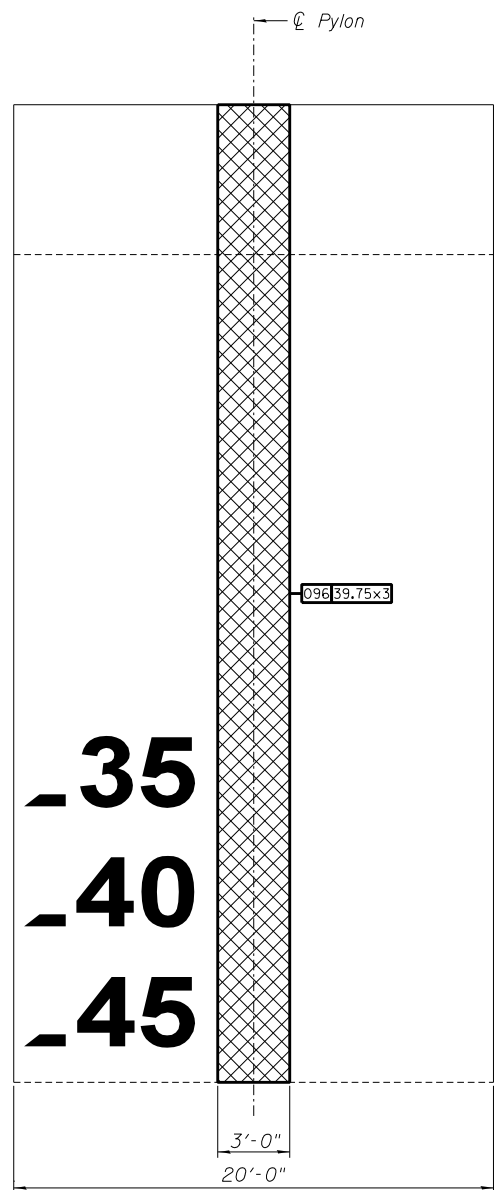
SHEET NO. 30 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-ID5-1	MADISON	58	40
<b>CONTRACT NO. 76E73</b>				

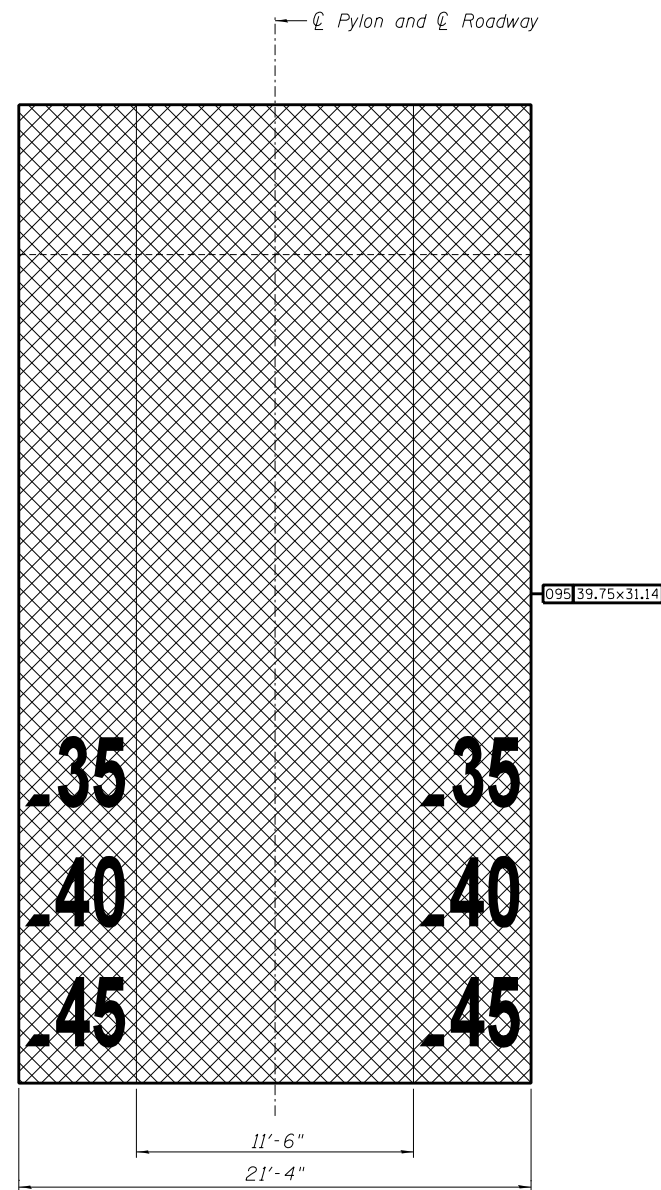
ILLINOIS FED. AID PROJECT



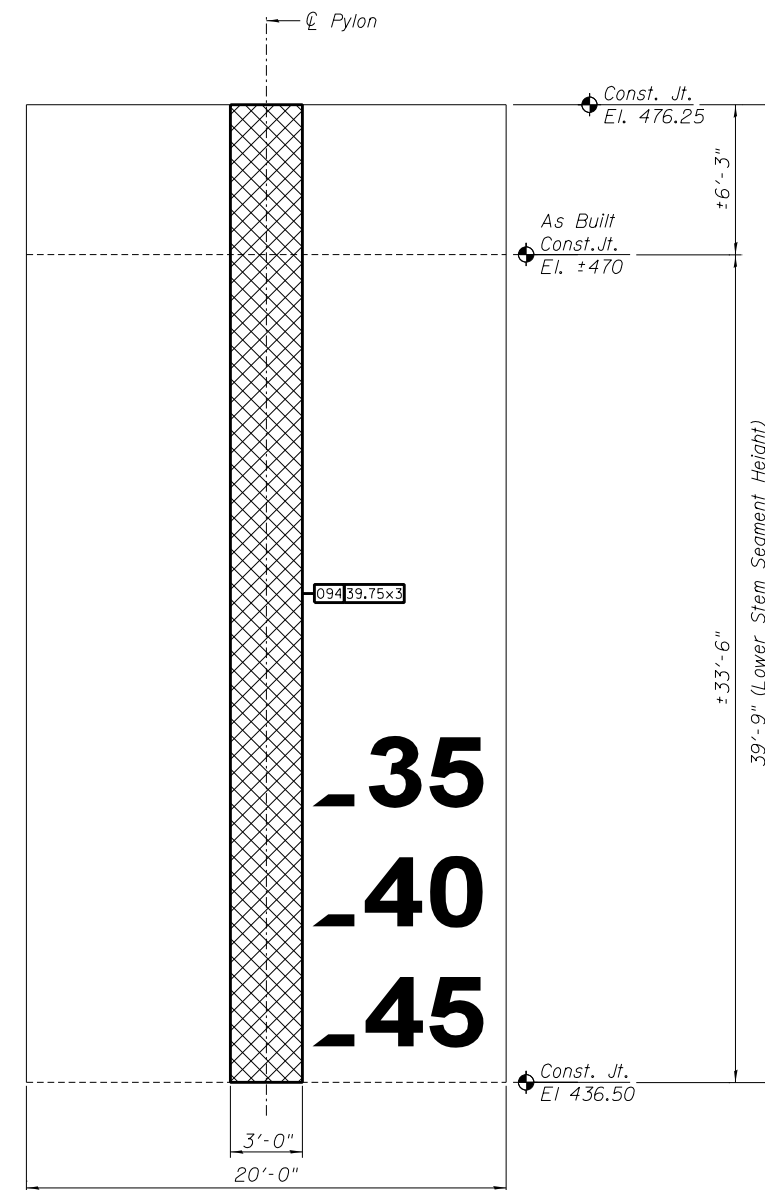
**MISSOURI PYLON - 436.50 to 476.25**  
Looking North



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



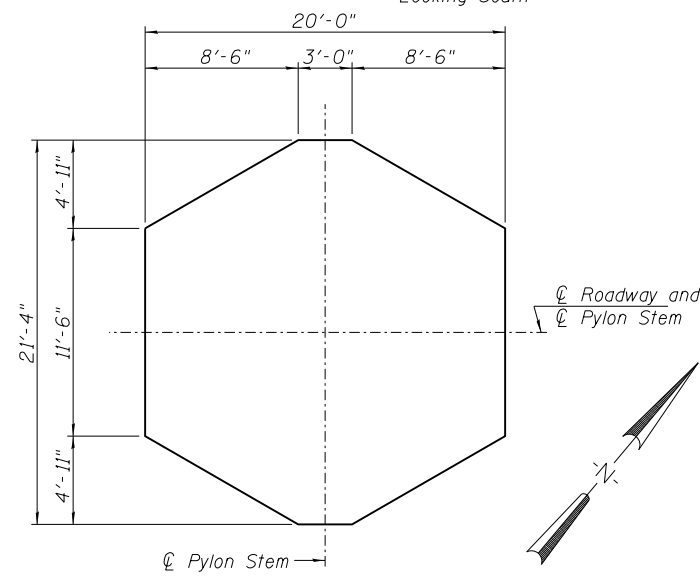
**MISSOURI PYLON - 436.50 to 476.25**  
Looking South



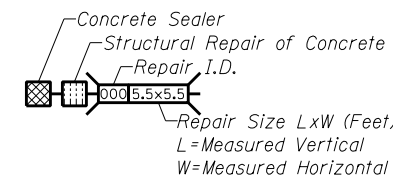
**MISSOURI PYLON - 436.50 to 476.25**  
Looking West

**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	

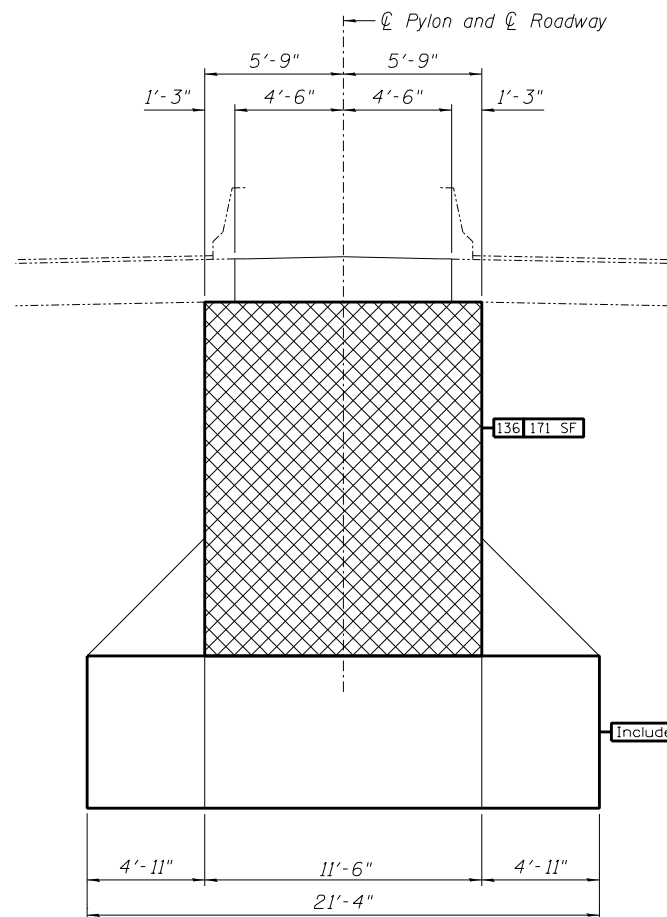
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

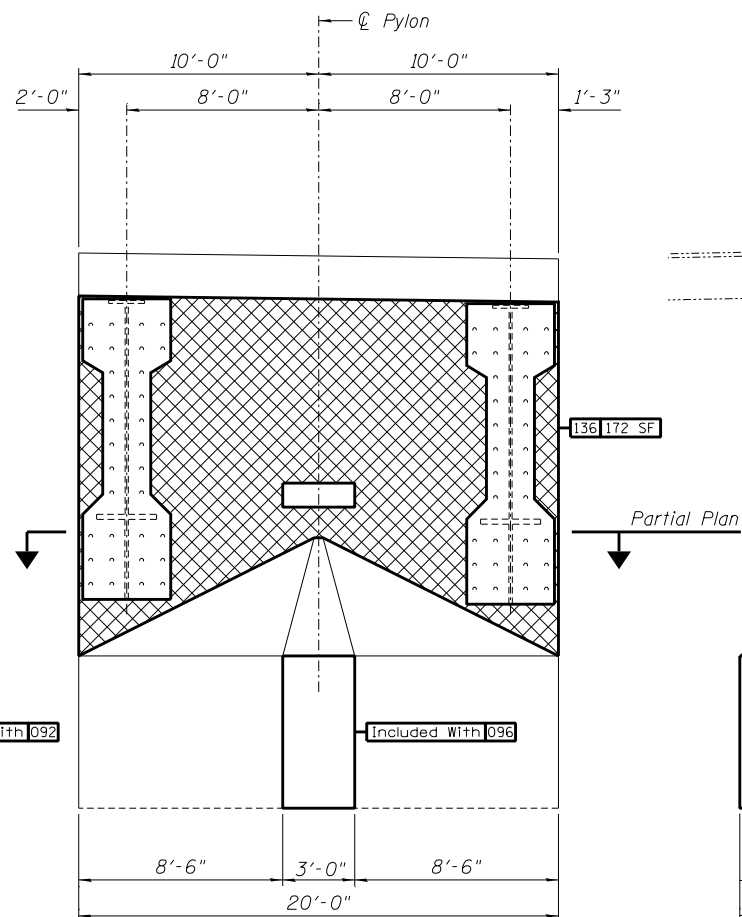
SHEET NO. 31 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-ID5-1	MADISON	58	41
CONTRACT NO. 76E73				

ILLINOIS FED. AID PROJECT

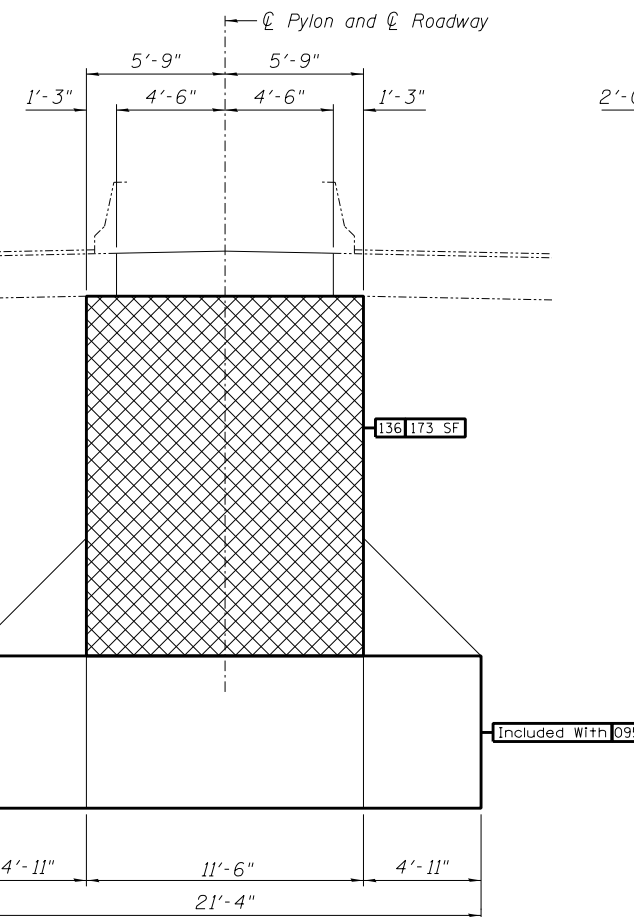


**MISSOURI PYLON - 476.25 to 492.92**  
 Looking North

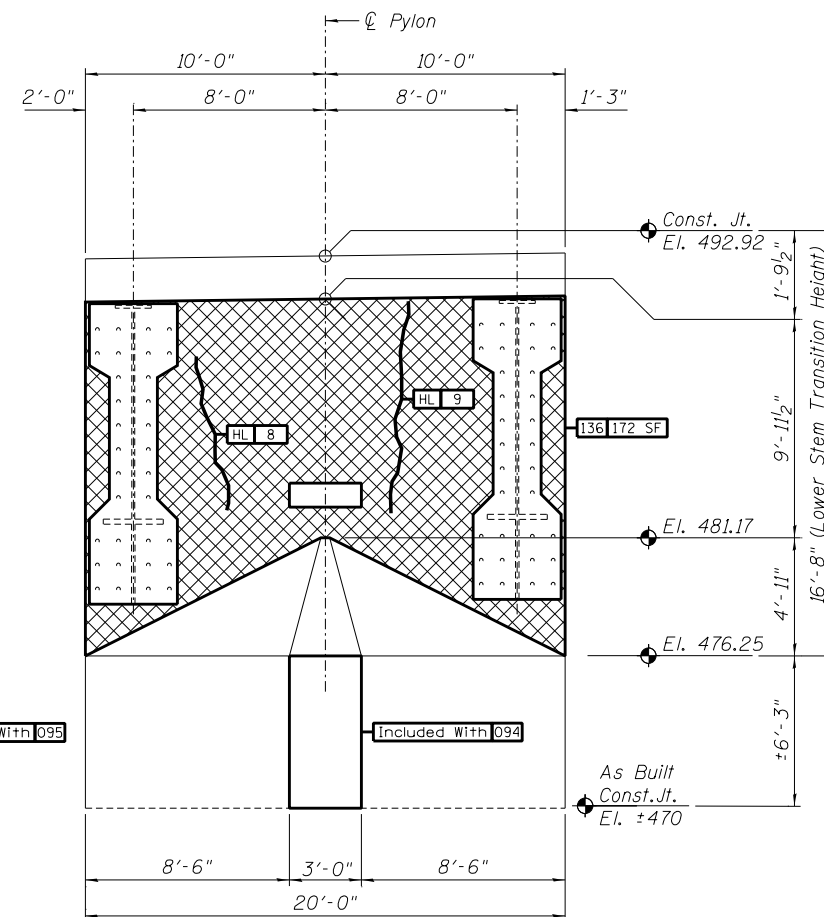


**MISSOURI PYLON - 476.25 to 492.92**  
 Looking East

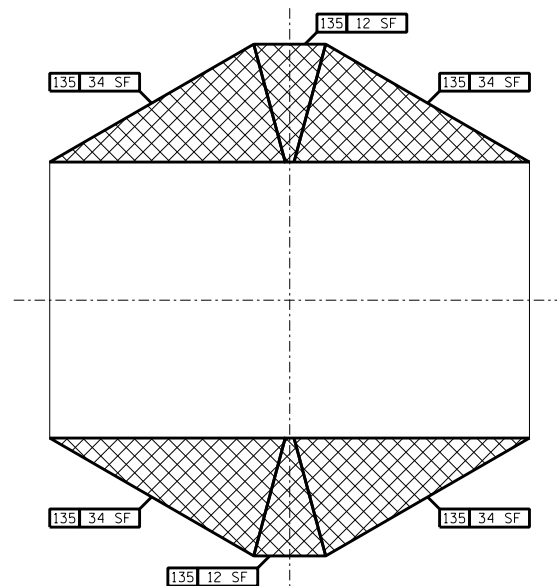
Partial Plan



**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)

Concrete Sealer  
 Repair I.D.  
 000 82 SF  
 Repair Area Sq. Ft.  
**CONCRETE SEALER**

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

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

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

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

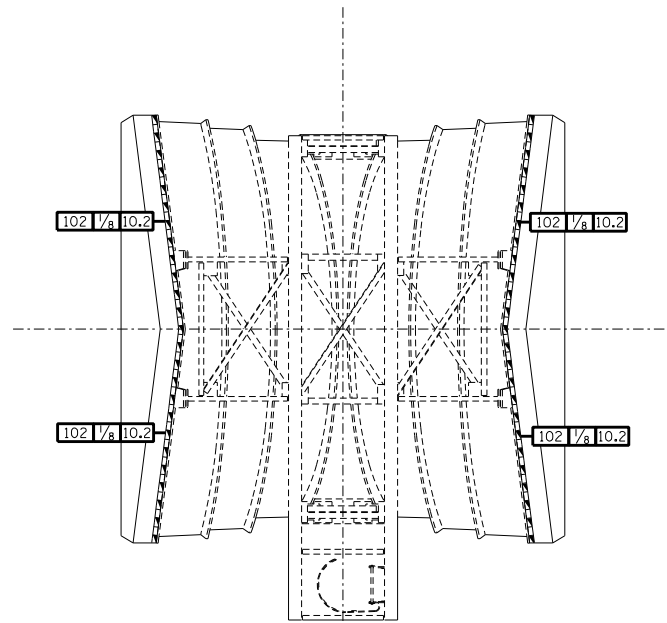
DESIGNED -	EXAMINED _____	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

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

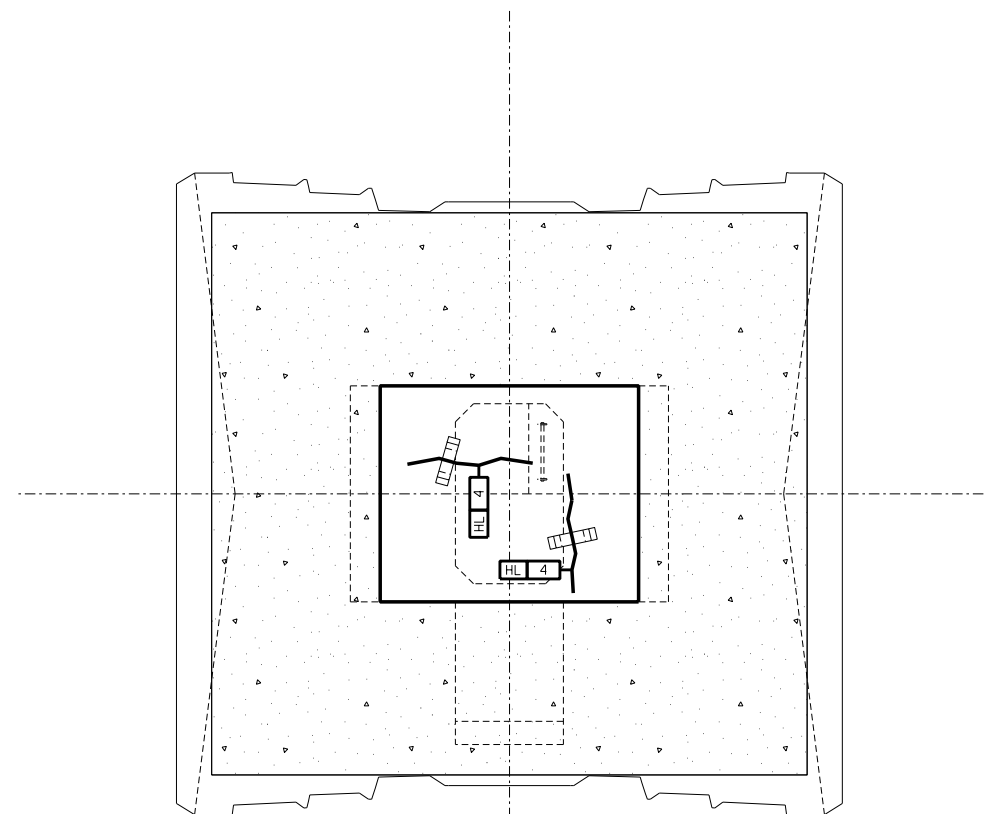
**REPAIRS TO - CSS - MISSOURI PYLON (PIER 9) - (476.25 to 492.92)**  
**STRUCTURE NO. 060-0255**

SHEET NO. 32 OF 48 SHEETS

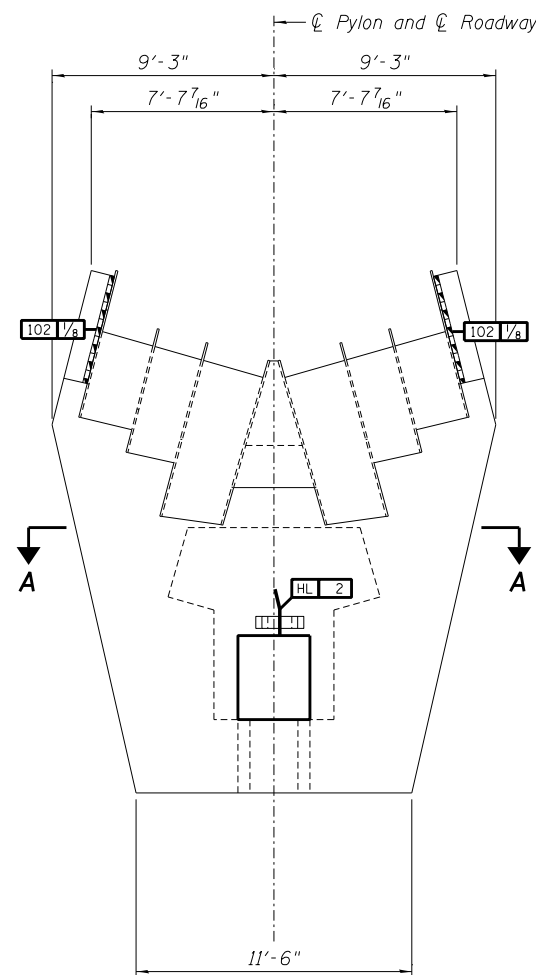
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	42
<b>CONTRACT NO. 76E73</b>				
ILLINOIS FED. AID PROJECT				



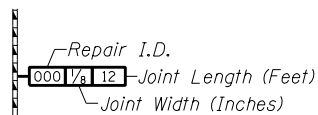
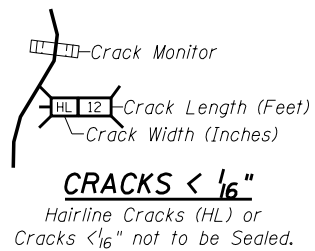
**PLAN - STAY SADDLES**



**SECTION A-A  
ACCESS SPACE CEILING**

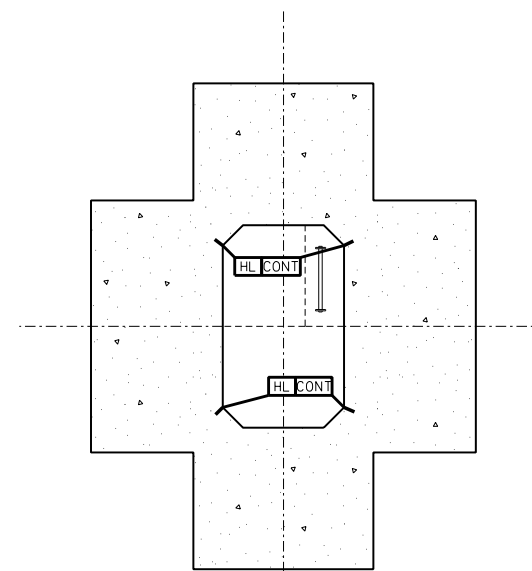


**ELEVATION - NORTH FACE**



**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**

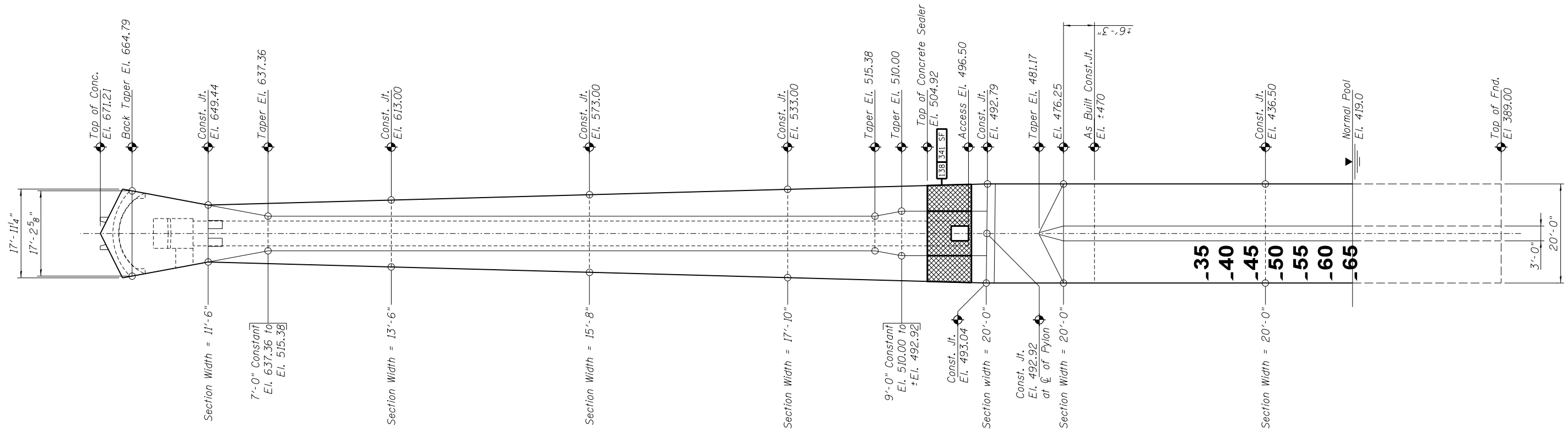
I.D.	Description	Pay Item	Units	Quantity
102	Failed Sealant Btwn. Saddle Stl. & Conc.	Polyurethane Sealant	FOOT	40.8
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

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**

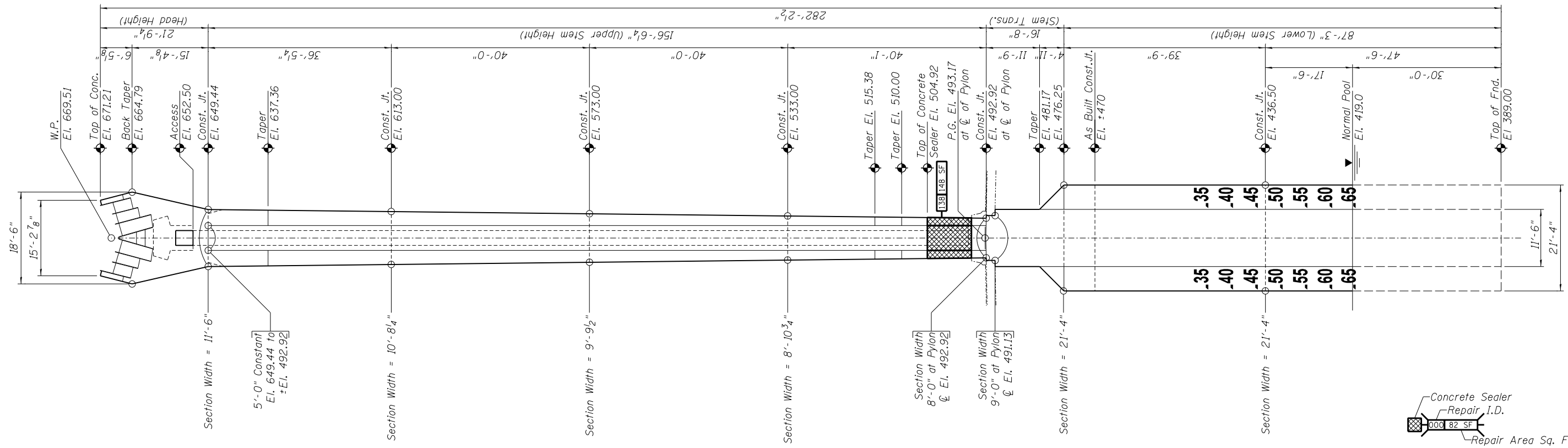
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	43
<b>CONTRACT NO. 76E73</b>				



**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



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

Concrete Sealer  
 Repair I.D.  
 138 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	

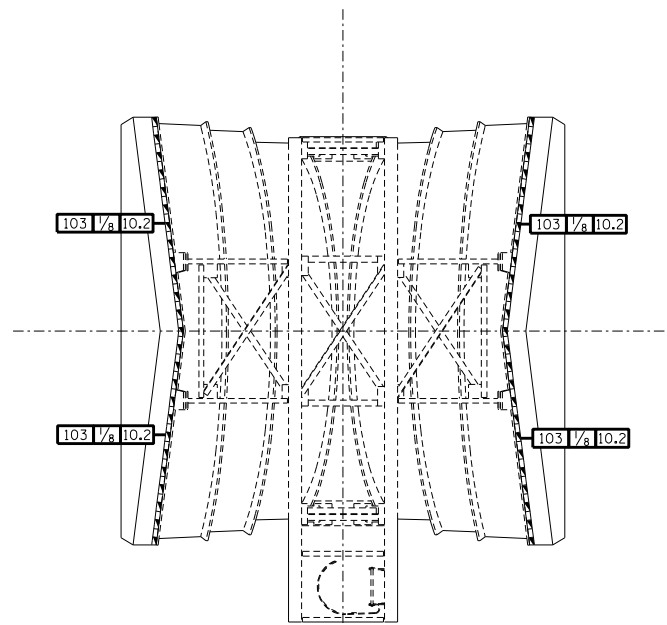
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

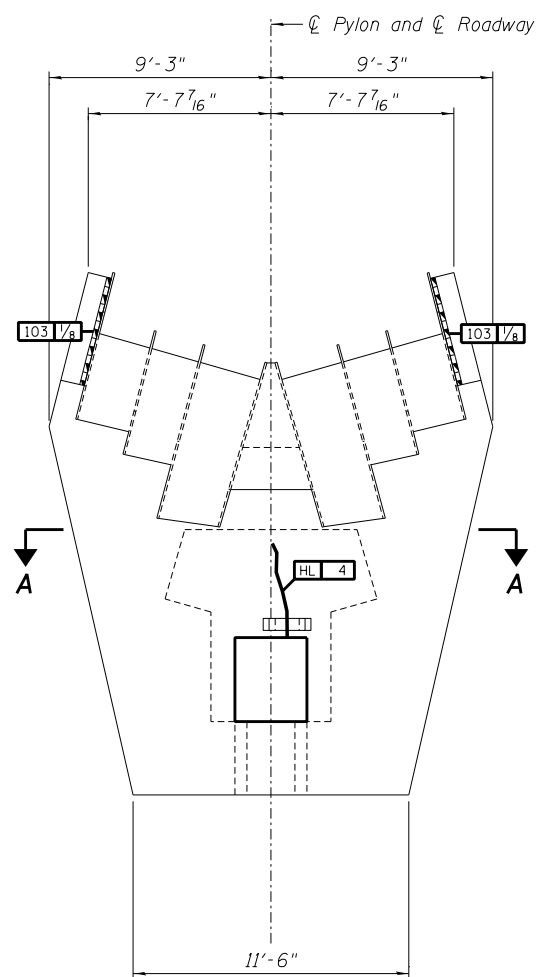
SHEET NO. 34 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-ID5-1	MADISON	58	44
CONTRACT NO. 76E73				

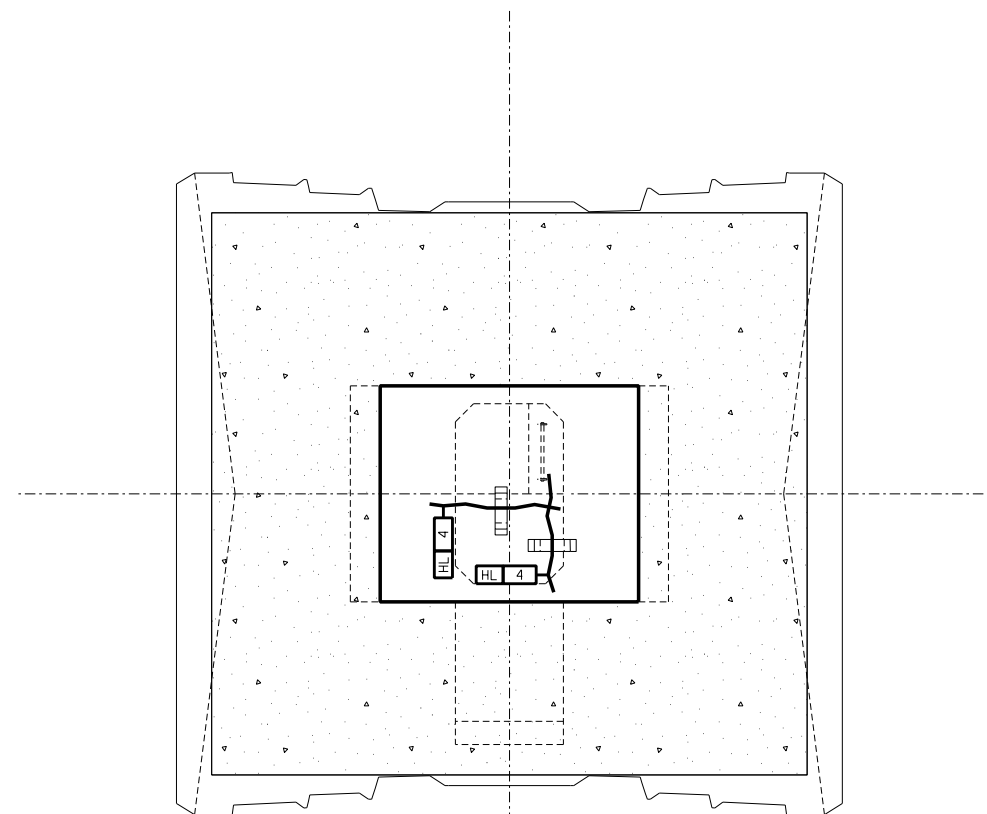
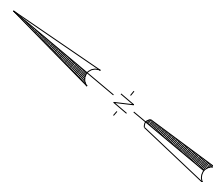
ILLINOIS FED. AID PROJECT



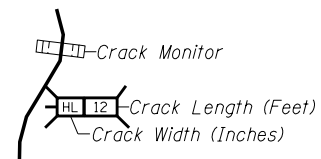
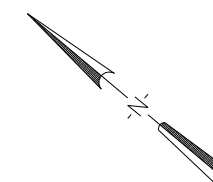
**PLAN - STAY SADDLES**



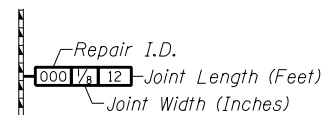
**ELEVATION - SOUTH FACE**



**SECTION A-A  
ACCESS SPACE CEILING**

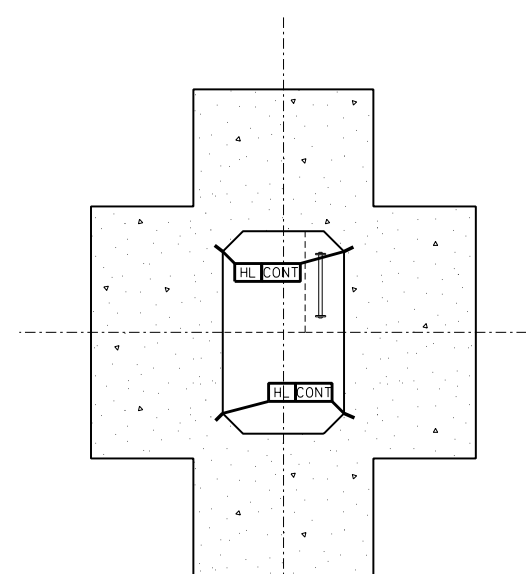


**CRACKS < 1/16"**  
 Hairline Cracks (HL) or  
 Cracks < 1/16" not to be Sealed.

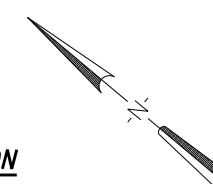


**POLYURETHANE SEALANT**

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 10 - PYLON HEAD**

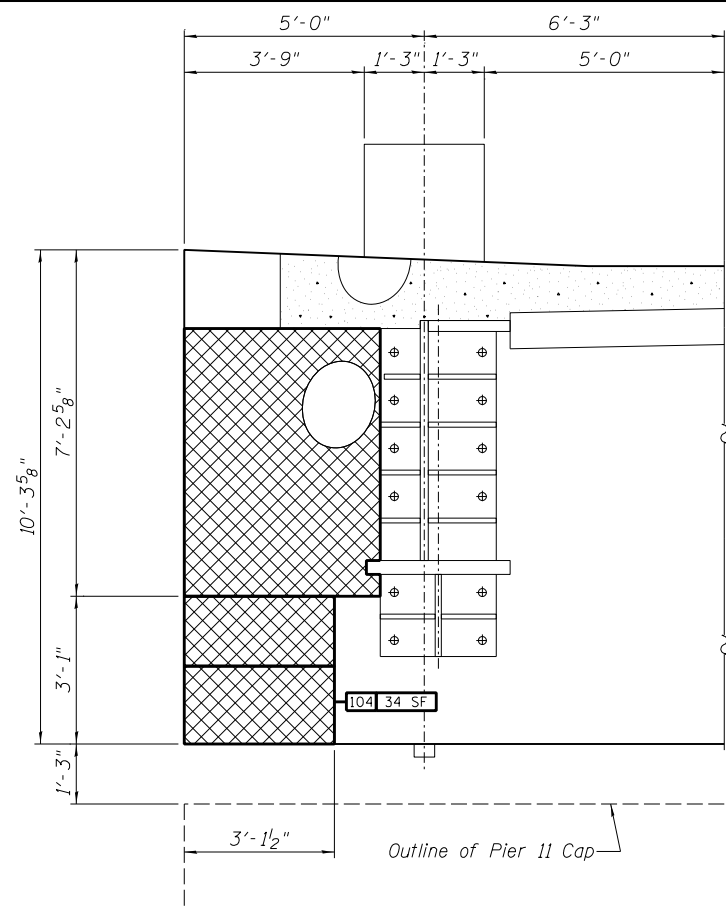
I.D.	Description	Pay Item	Units	Quantity
103	Failed Sealant Btwn. Saddle Stl. & Conc.	Polyurethane Sealant	FOOT	40.8
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

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

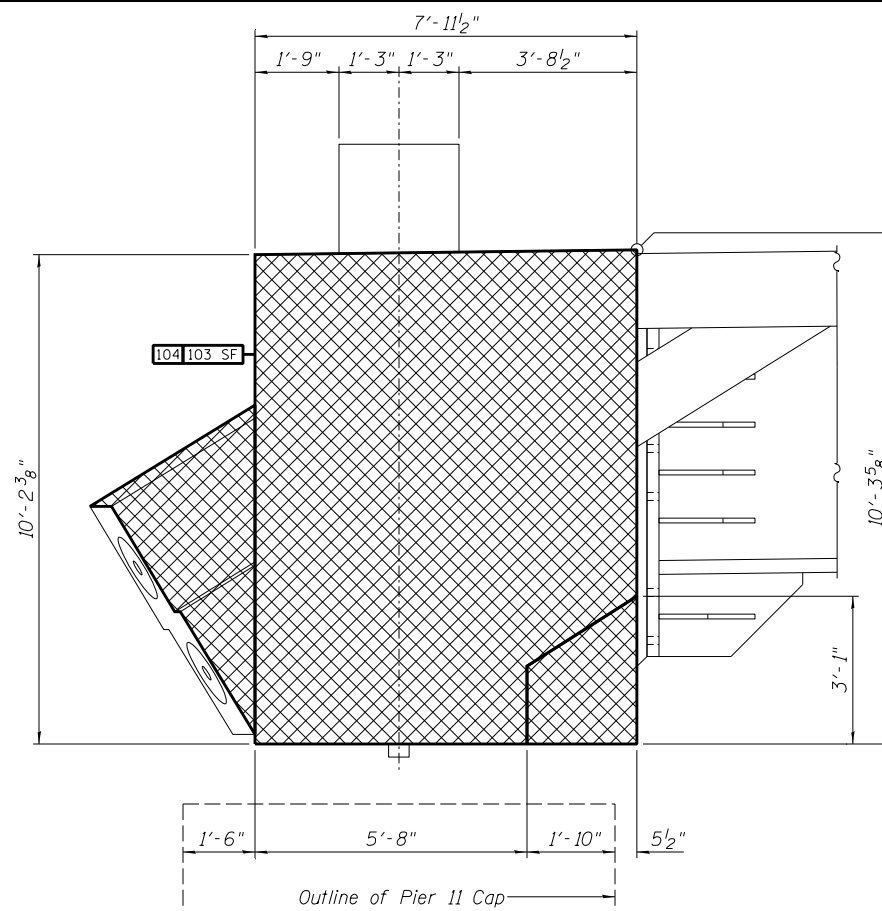
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REPAIRS TO - ILLINOIS PYLON (PIER 10) - HEAD & ACCESS SPACES  
STRUCTURE NO. 060-0255**

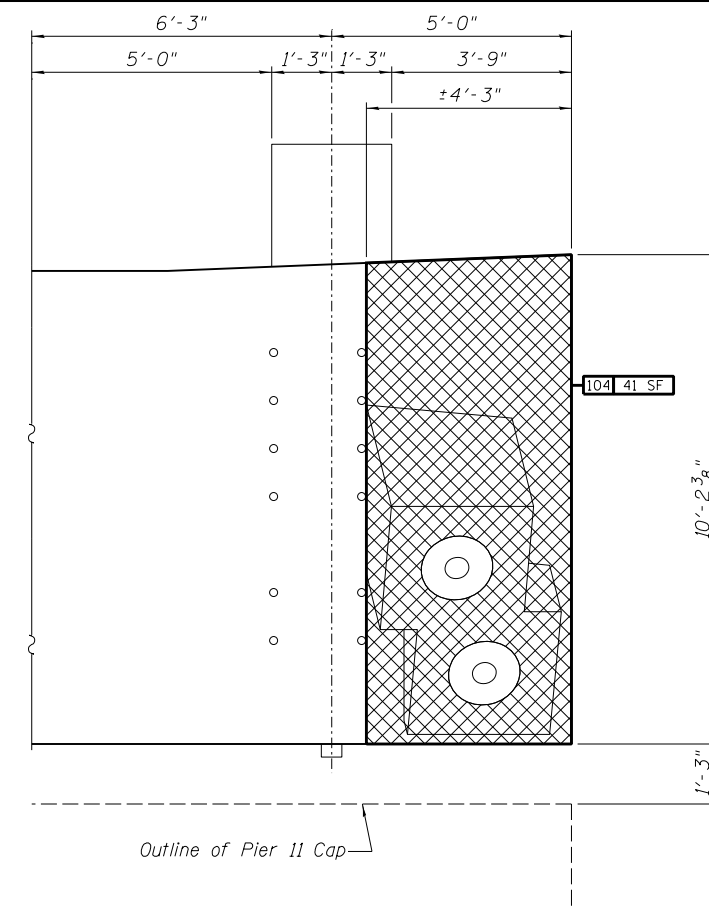
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	45
<b>CONTRACT NO. 76E73</b>				



**PARTIAL ELEVATION**  
Looking North



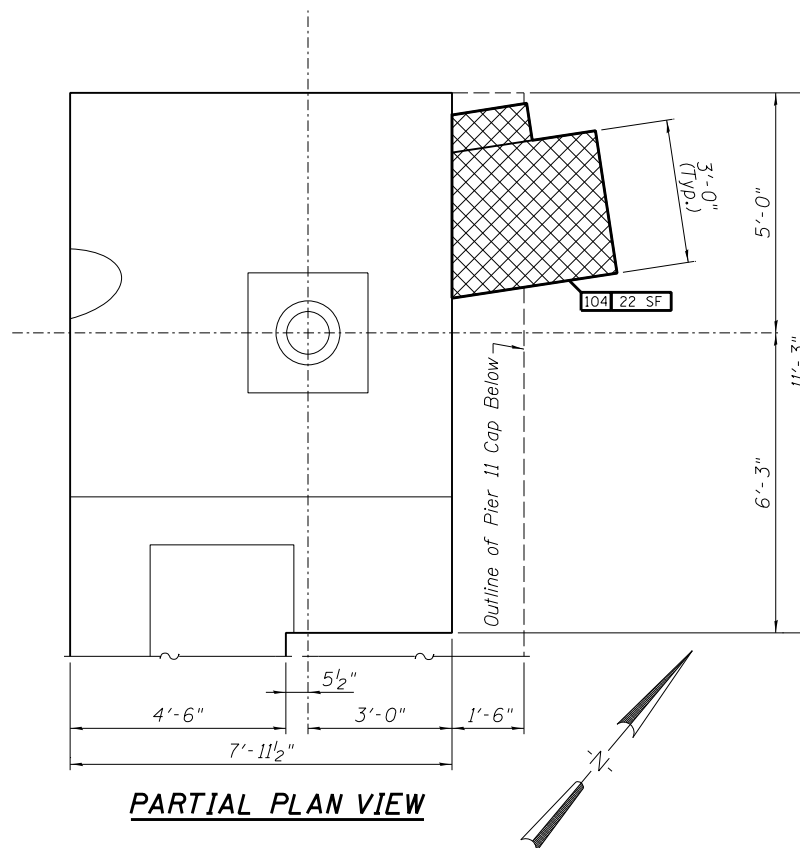
**END VIEW**



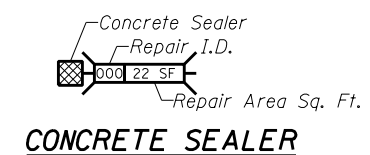
**PARTIAL ELEVATION**  
Looking South

**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**



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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

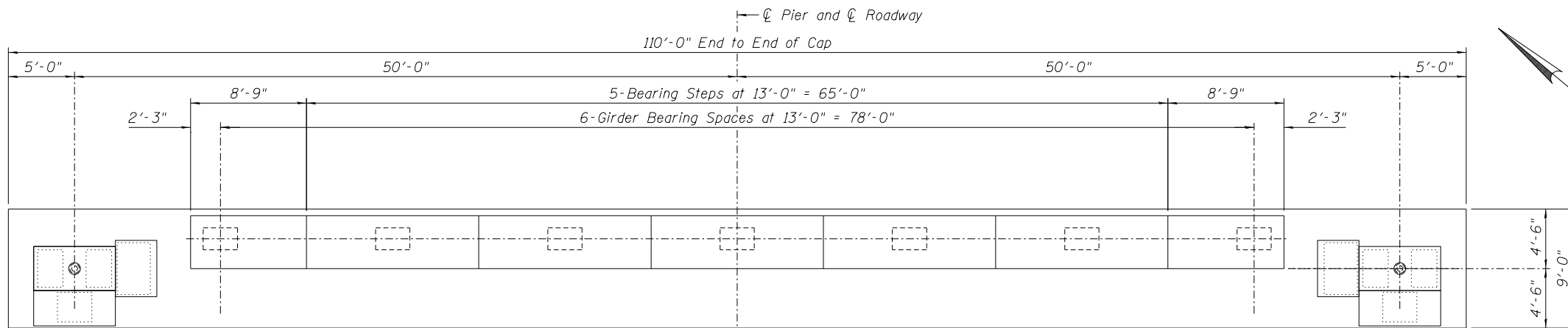
**REPAIRS TO - LT. END BLOCK - over PIER 11 - CONCRETE END BEAM  
STRUCTURE NO. 060-0255**

SHEET NO. 36 OF 48 SHEETS

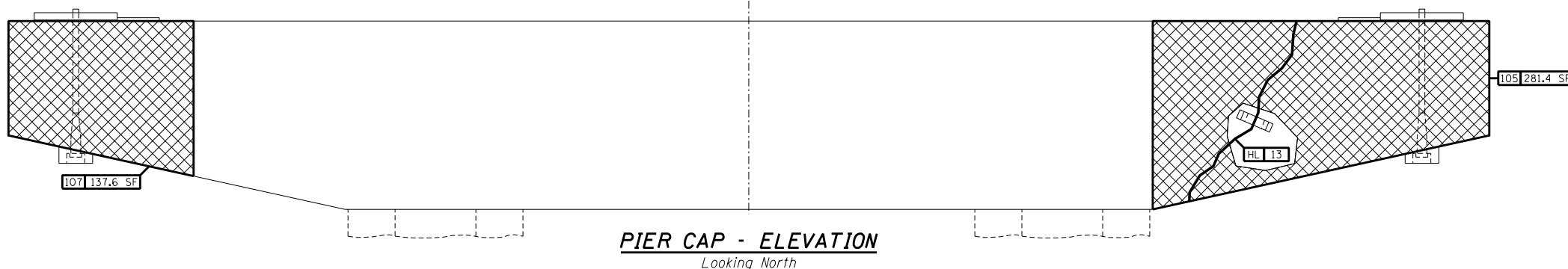
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	46
<b>CONTRACT NO. 76E73</b>				

ILLINOIS FED. AID PROJECT

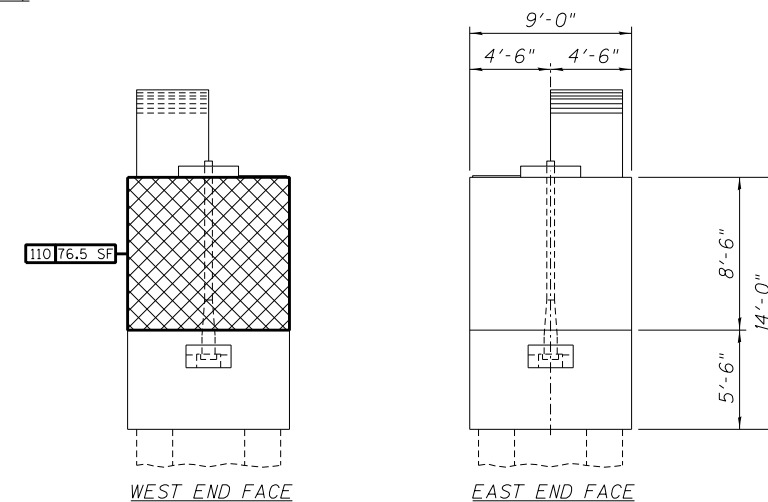




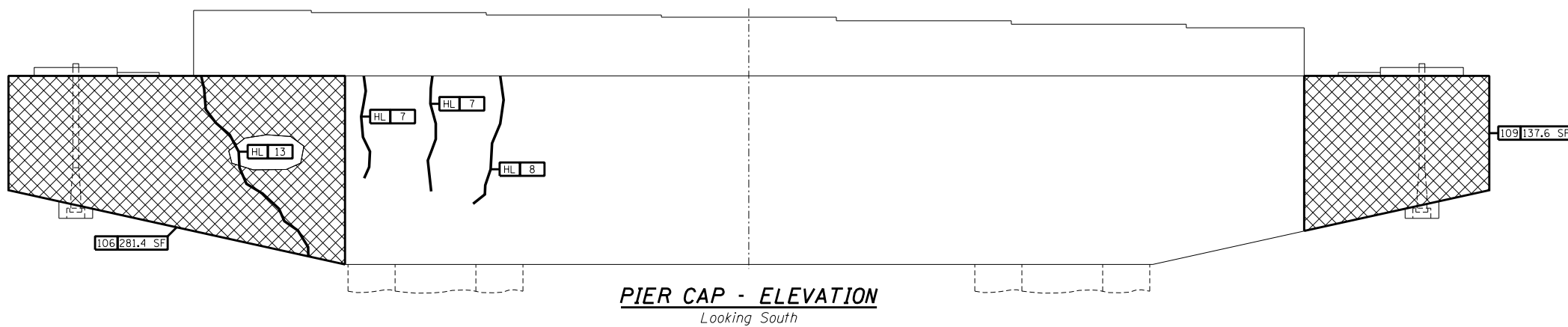
**PIER CAP - PLAN - PIER 11**



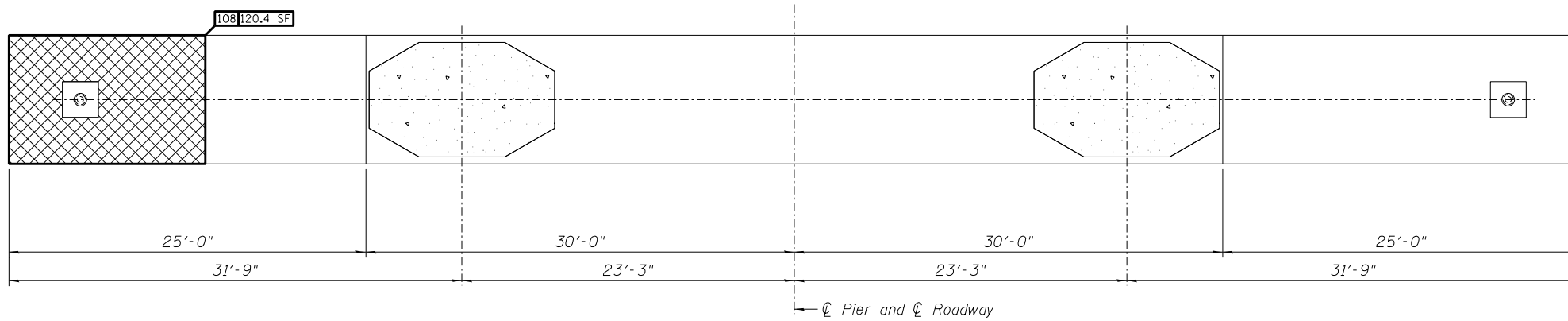
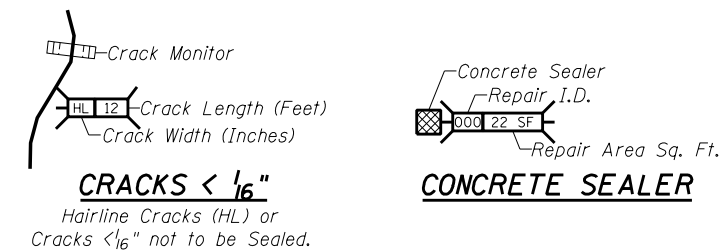
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - END ELEVATIONS**



**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - UNDERSIDE**

**REPAIRS LIST - PIER 11 - 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
-	-	-	-	-
-	-	-	-	-

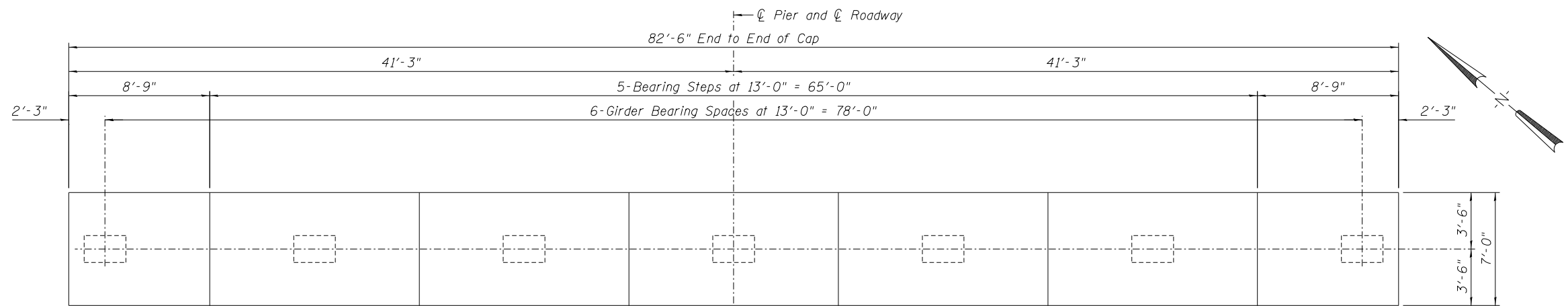
DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

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

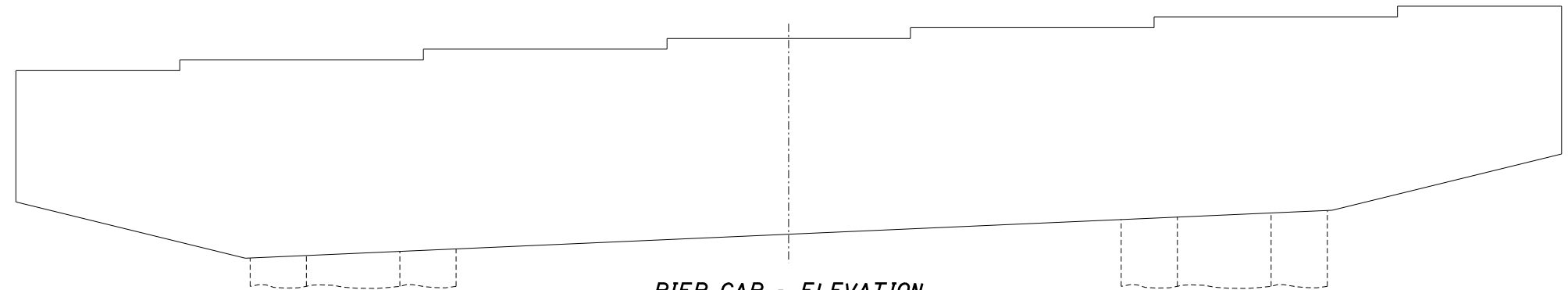
**REPAIRS TO - PIER NUMBER 11 - CAP**  
**STRUCTURE NO. 060-0255**

SHEET NO. 37 OF 48 SHEETS

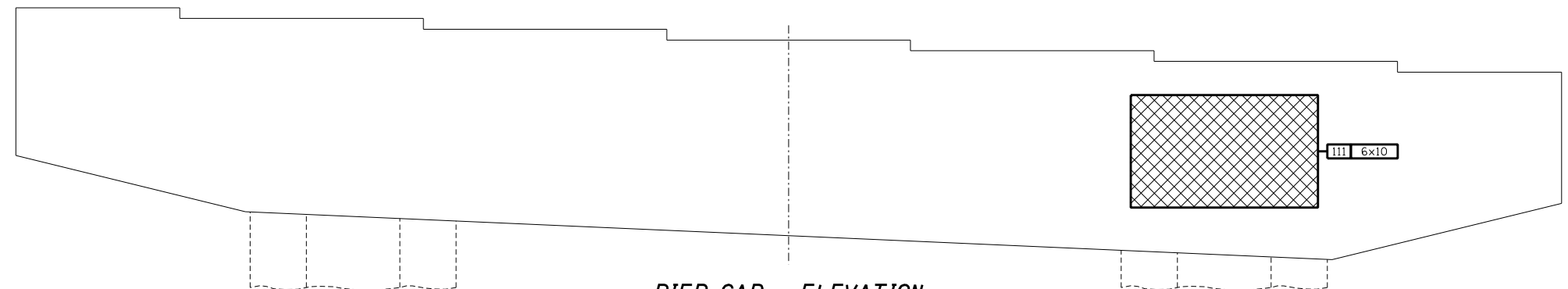
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	47
<b>CONTRACT NO. 76E73</b>				
ILLINOIS FED. AID PROJECT				



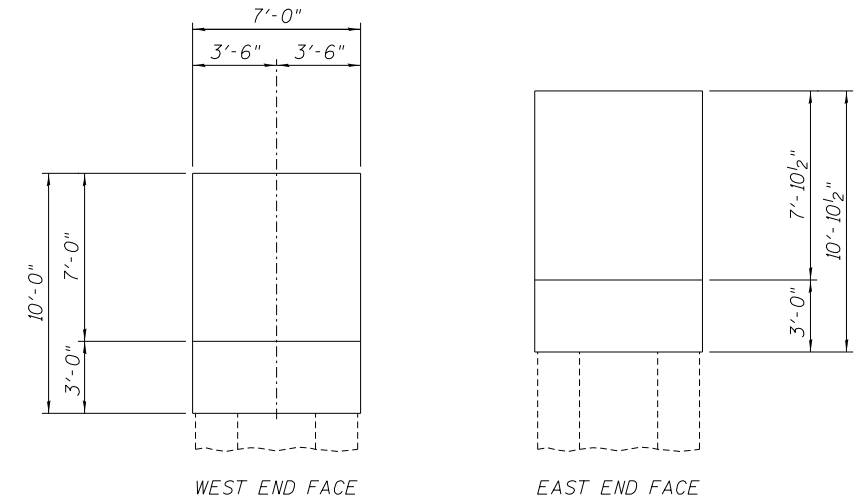
**PIER CAP - PLAN - PIER 14**



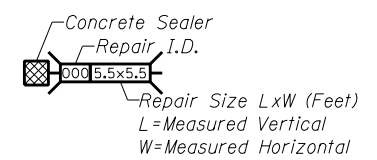
**PIER CAP - ELEVATION**  
Looking North



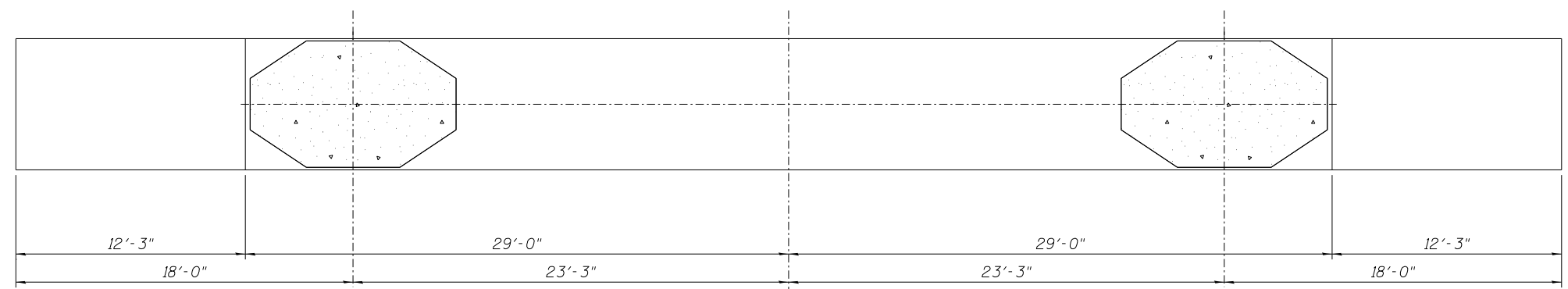
**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - END ELEVATIONS**



**CONCRETE SEALER**



**PIER CAP - UNDERSIDE**

**REPAIRS LIST - PIER 14 - CAP**

I.D.	Description	Pay Item	Units	Quantity
111	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**

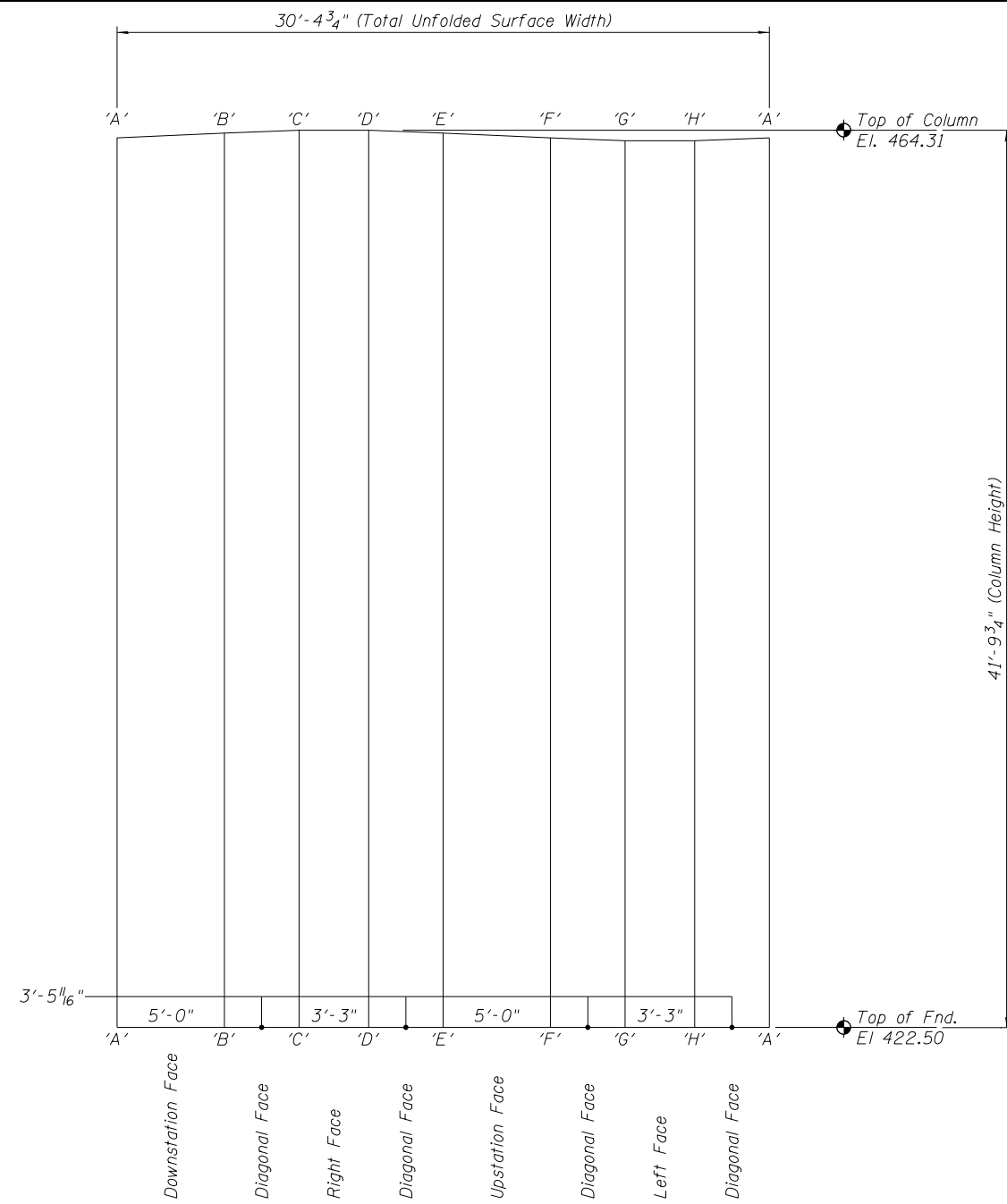
**REPAIRS TO - PIER NUMBER 14 - CAP**  
**STRUCTURE NO. 060-0255**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	48
CONTRACT NO. 76E73				

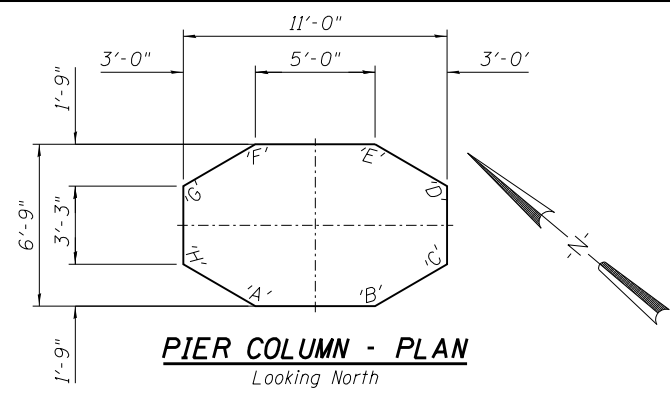


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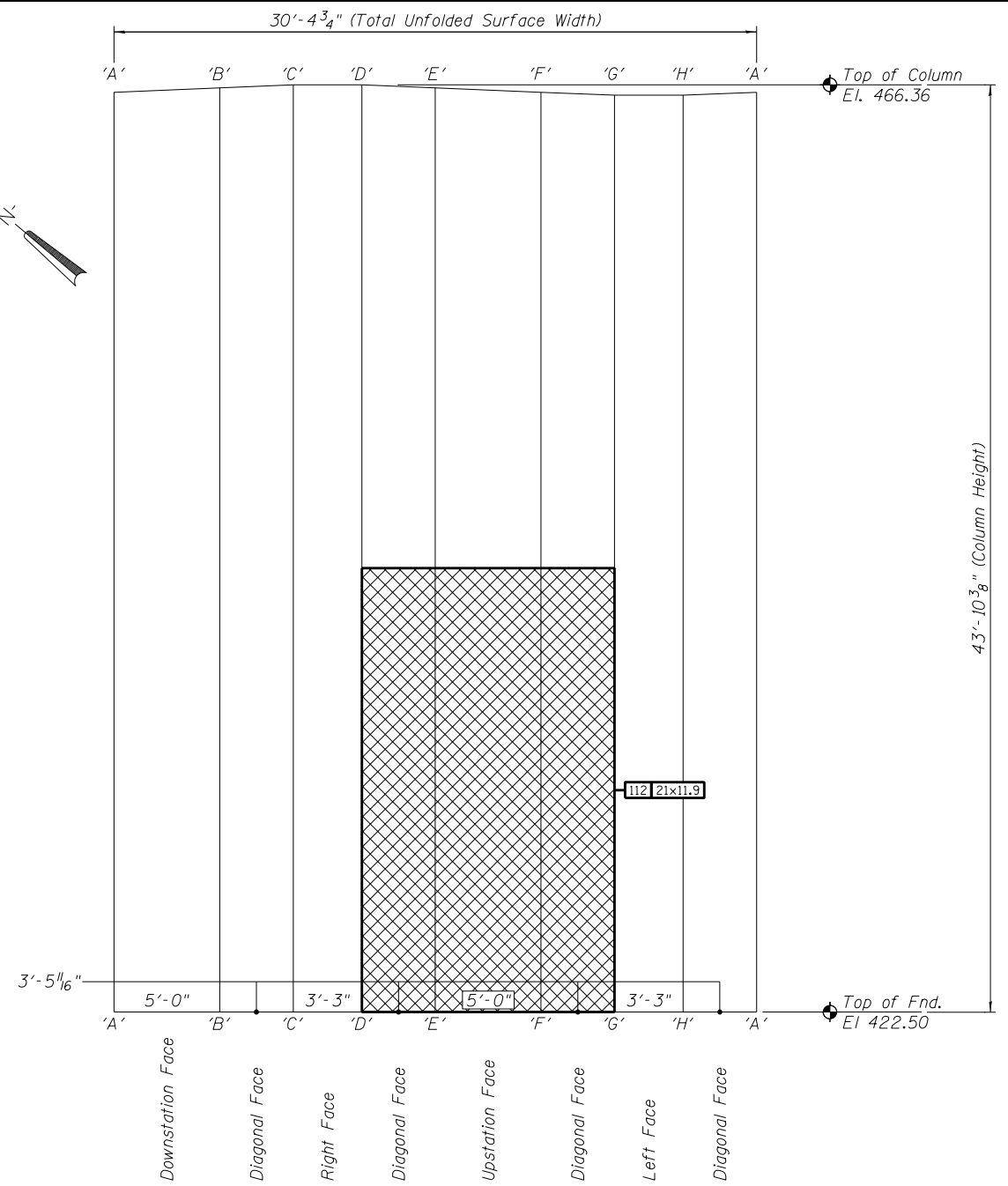
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 I:\Jobs\110007\MOA\CAD\SH\110007\0600255-76E73-039-Pier-14\_Column\_Repair.scdgn



**PIER NO. 14 - ELEVATION - LEFT COLUMN**  
 Column Surface Shown Unfolded



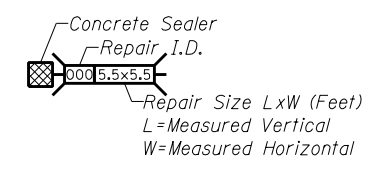
**PIER COLUMN - PLAN**  
 Looking North



**PIER NO. 14 - ELEVATION - RIGHT COLUMN**  
 Column Surface Shown Unfolded

**REPAIRS LIST - PIER 14 - COLUMNS**

I.D.	Description	Pay Item	Units	Quantity
112	Map Cracking	Concrete Sealer	SQ. FT.	249.9
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



**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**

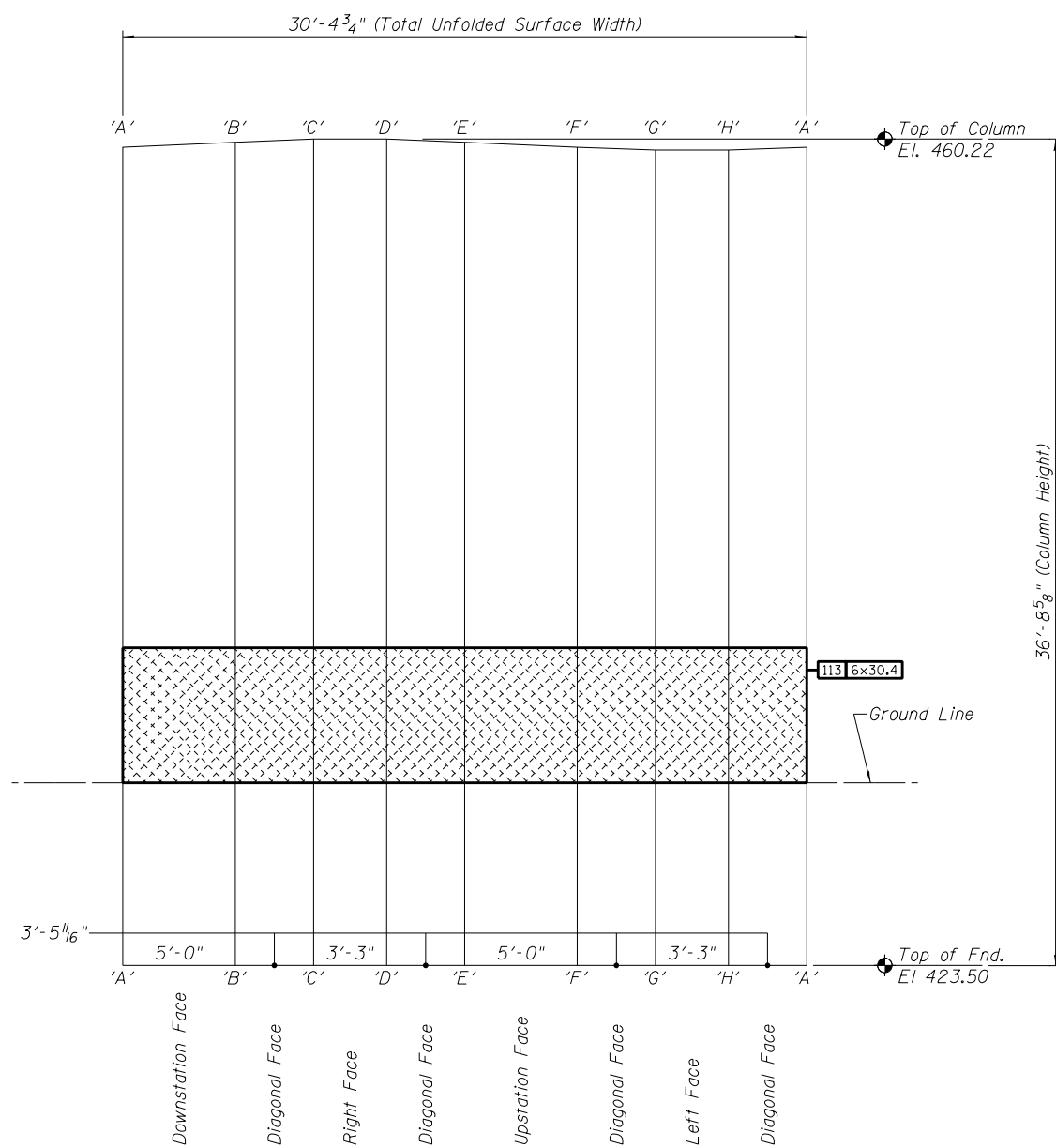
**REPAIRS TO - PIER NUMBER 14 - COLUMNS**  
**STRUCTURE NO. 060-0255**  
 SHEET NO. 39 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	49
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				

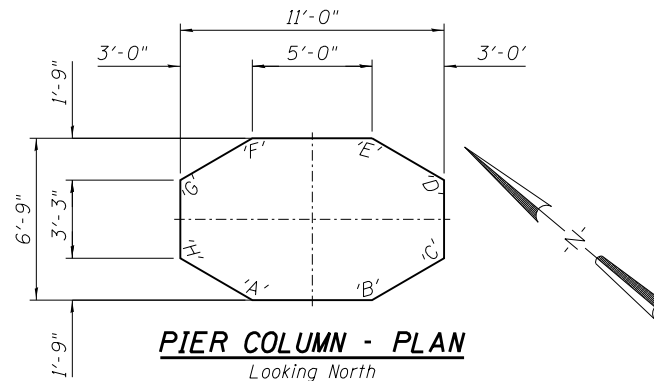


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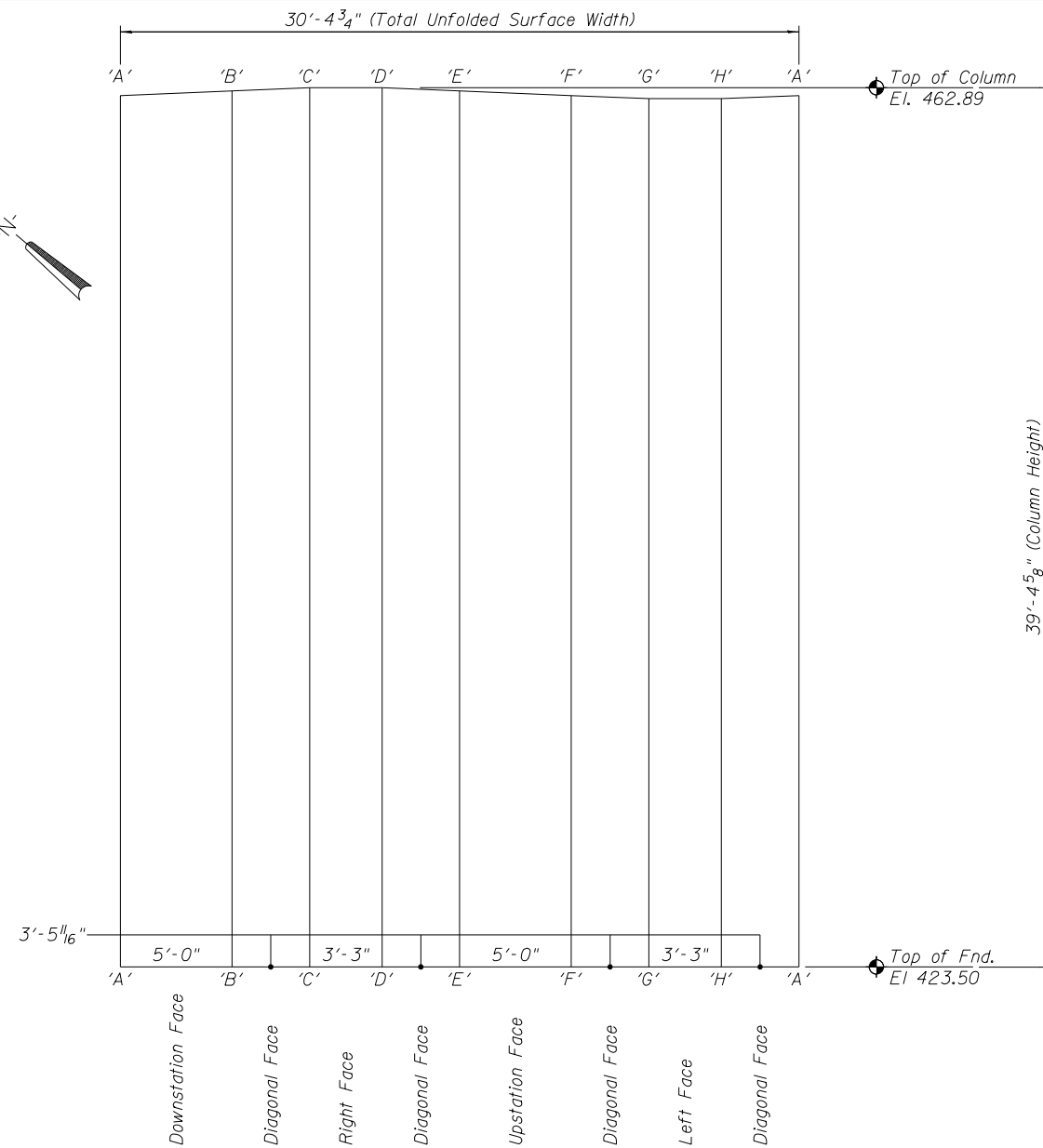
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**PIER NO. 16 - ELEVATION - LEFT COLUMN**  
Column Surface Shown Unfolded



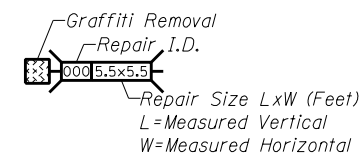
**PIER COLUMN - PLAN**  
Looking North



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

**REPAIRS LIST - PIER 16 - COLUMNS**

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



**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 - PIER NUMBER 16 - COLUMNS  
STRUCTURE NO. 060-0255**

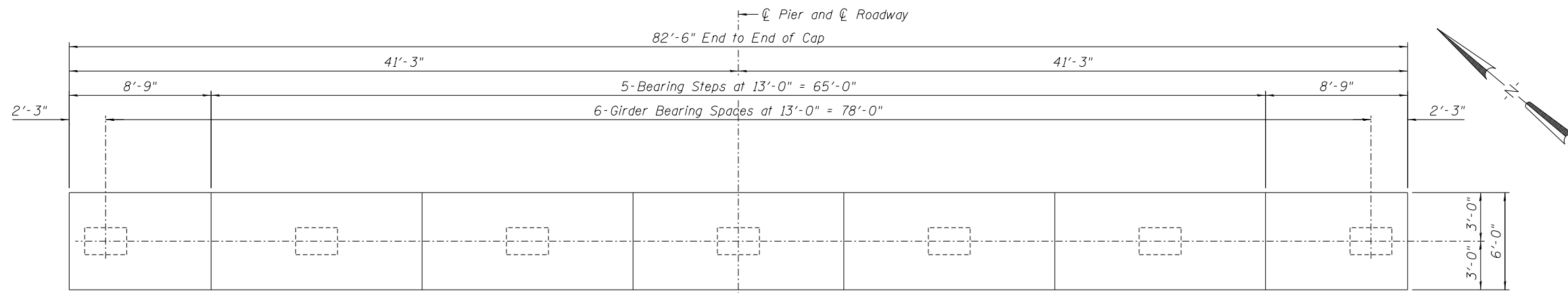
SHEET NO. 40 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1D5-1	MADISON	58	50
<b>CONTRACT NO. 76E73</b>				
ILLINOIS FED. AID PROJECT				

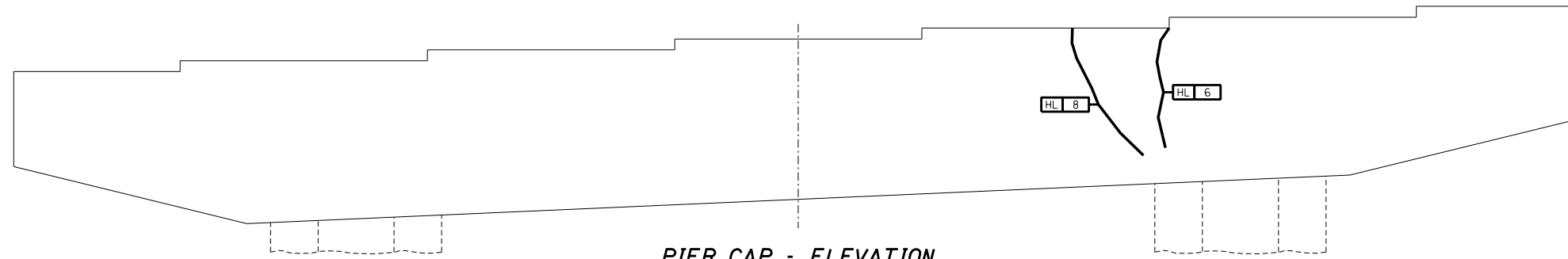
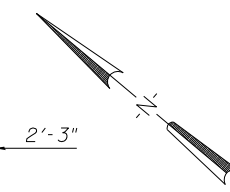


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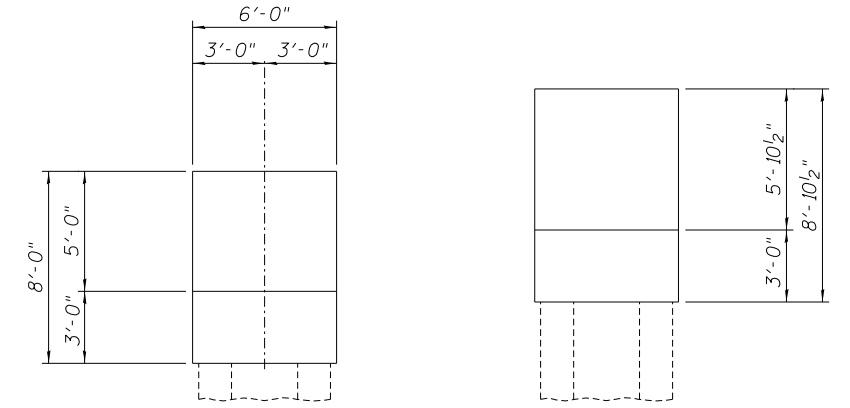
huffm0028 10/17/2012 12:09:08 PM  
I:\1\Jobs\110007\MOA\CAD\SHETS\0600255-76E73-04\Pier-17\_Cap\_Repair.sgn



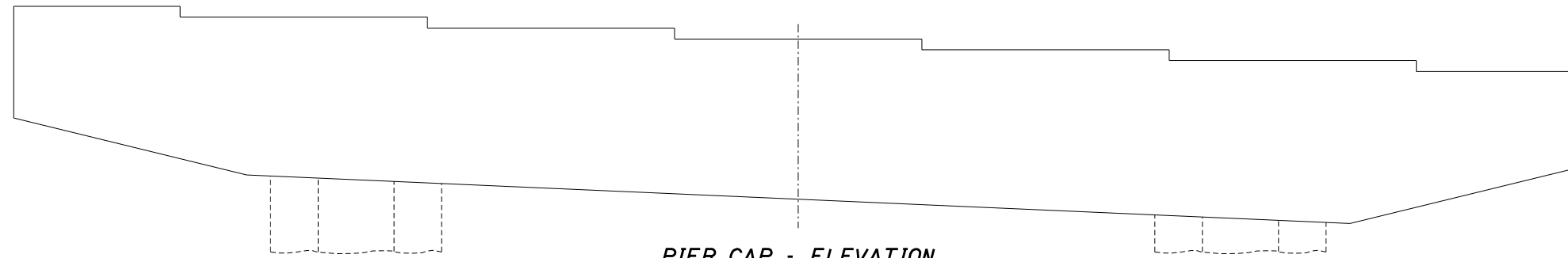
**PIER CAP - PLAN - PIER 17**



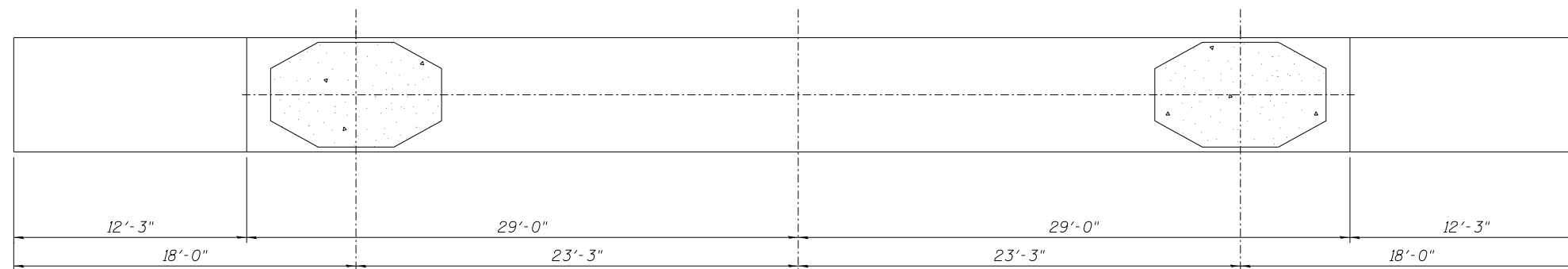
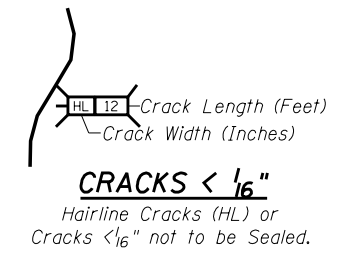
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - END ELEVATIONS**



**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - UNDERSIDE**

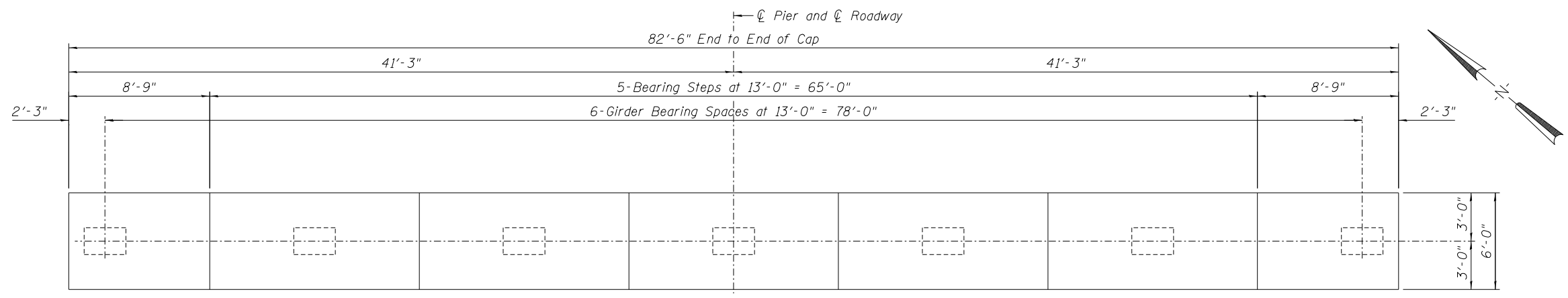
DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

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

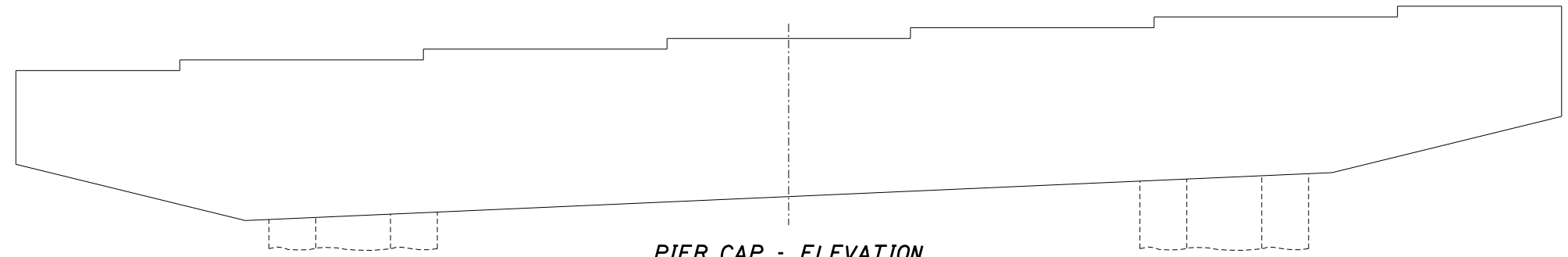
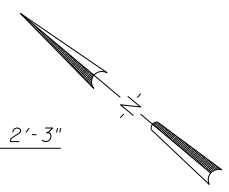
**REPAIRS TO - PIER NUMBER 17 - CAP**  
**STRUCTURE NO. 060-0255**

SHEET NO. 41 OF 48 SHEETS

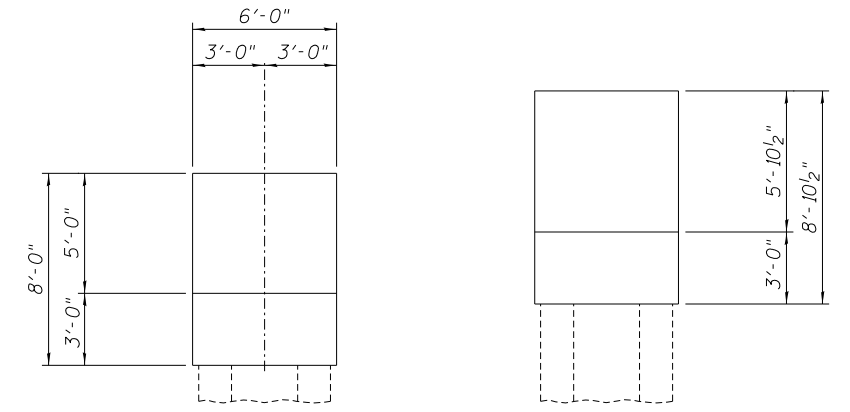
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	51
<b>CONTRACT NO. 76E73</b>				
<small>ILLINOIS FED. AID PROJECT</small>				



**PIER CAP - PLAN - PIER 19**

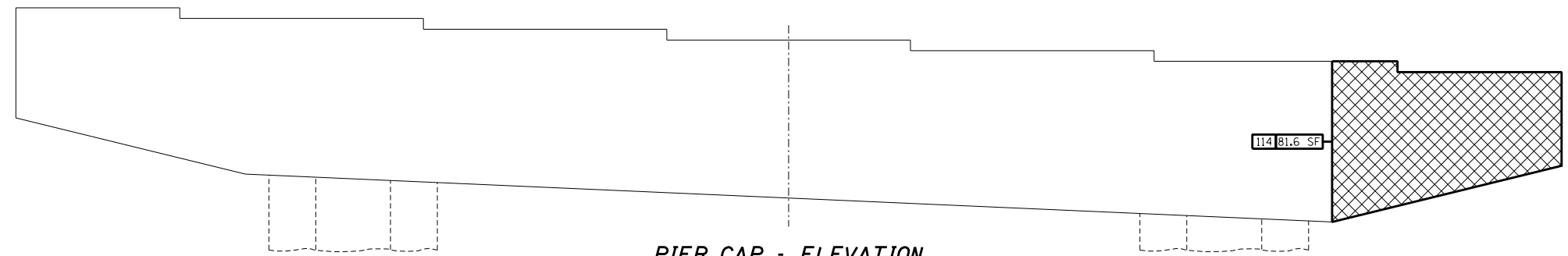


**PIER CAP - ELEVATION**  
Looking North

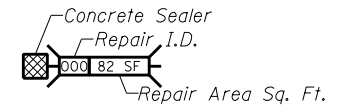


WEST END FACE EAST END FACE

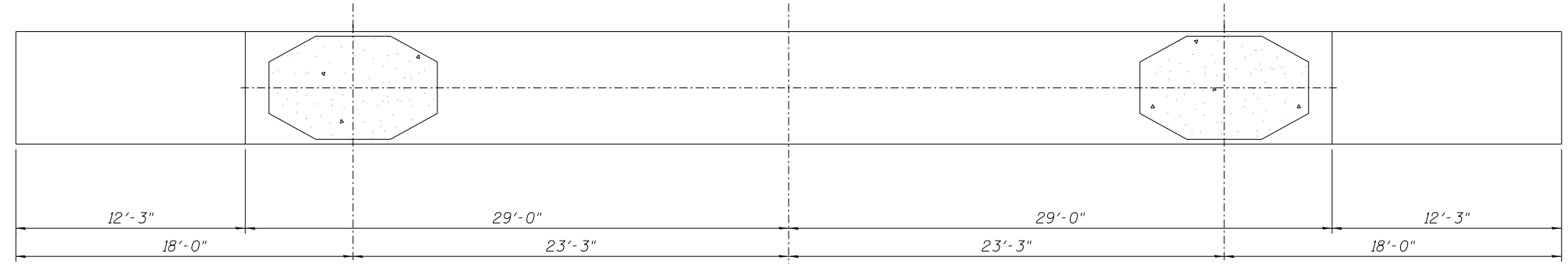
**PIER CAP - END ELEVATIONS**



**PIER CAP - ELEVATION**  
Looking South



**CONCRETE SEALER**



**PIER CAP - UNDERSIDE**

**REPAIRS LIST - PIER 19 - CAP**

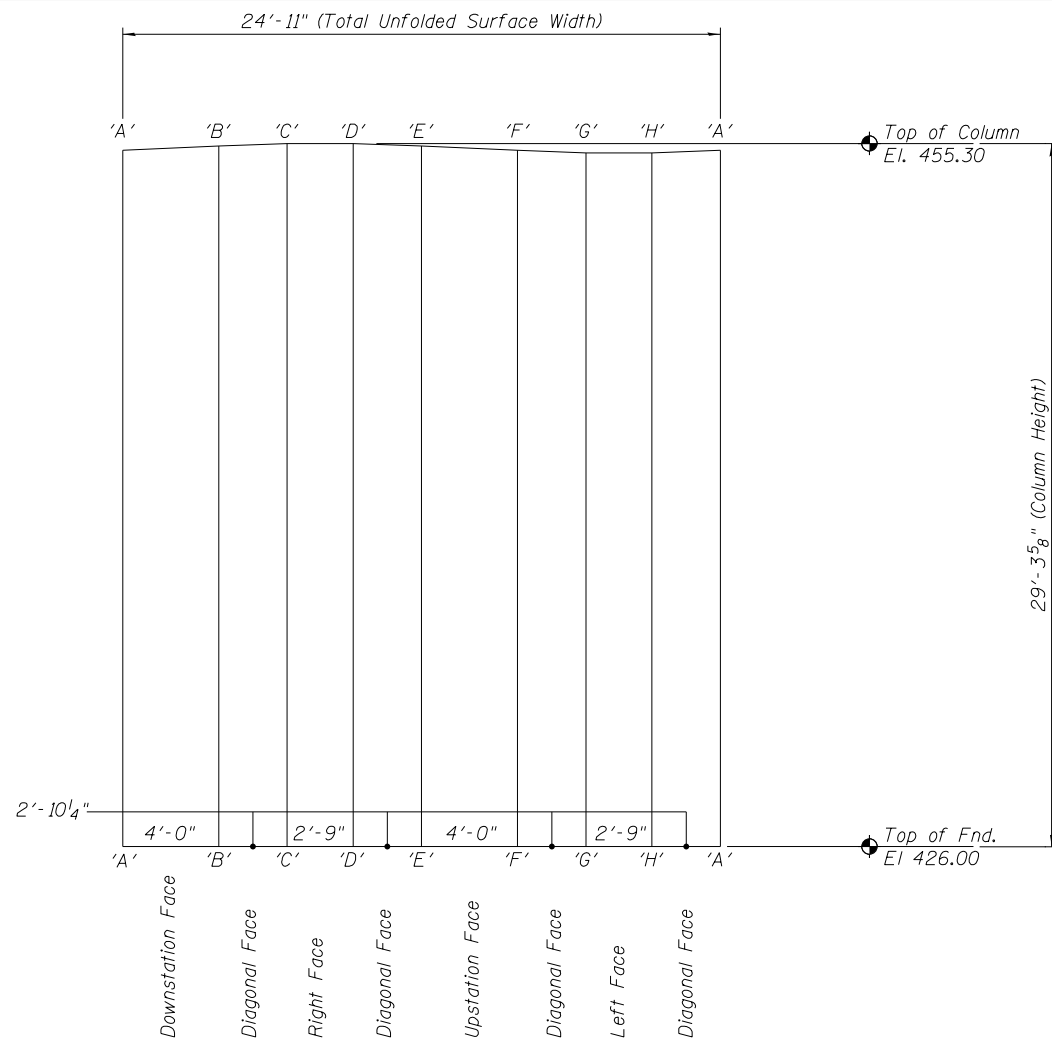
I.D.	Description	Pay Item	Units	Quantity
114	Map Cracking	Concrete Sealer	SQ. FT.	81.6
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

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

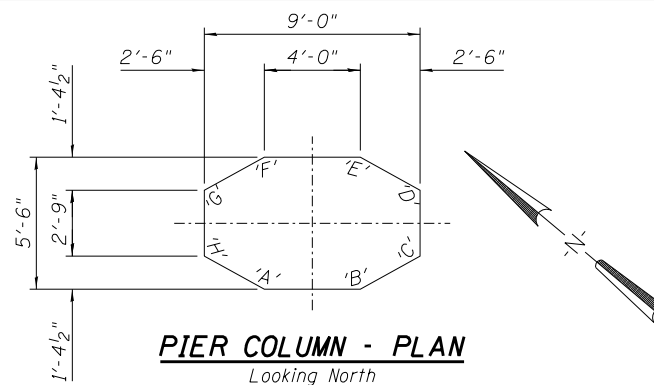
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

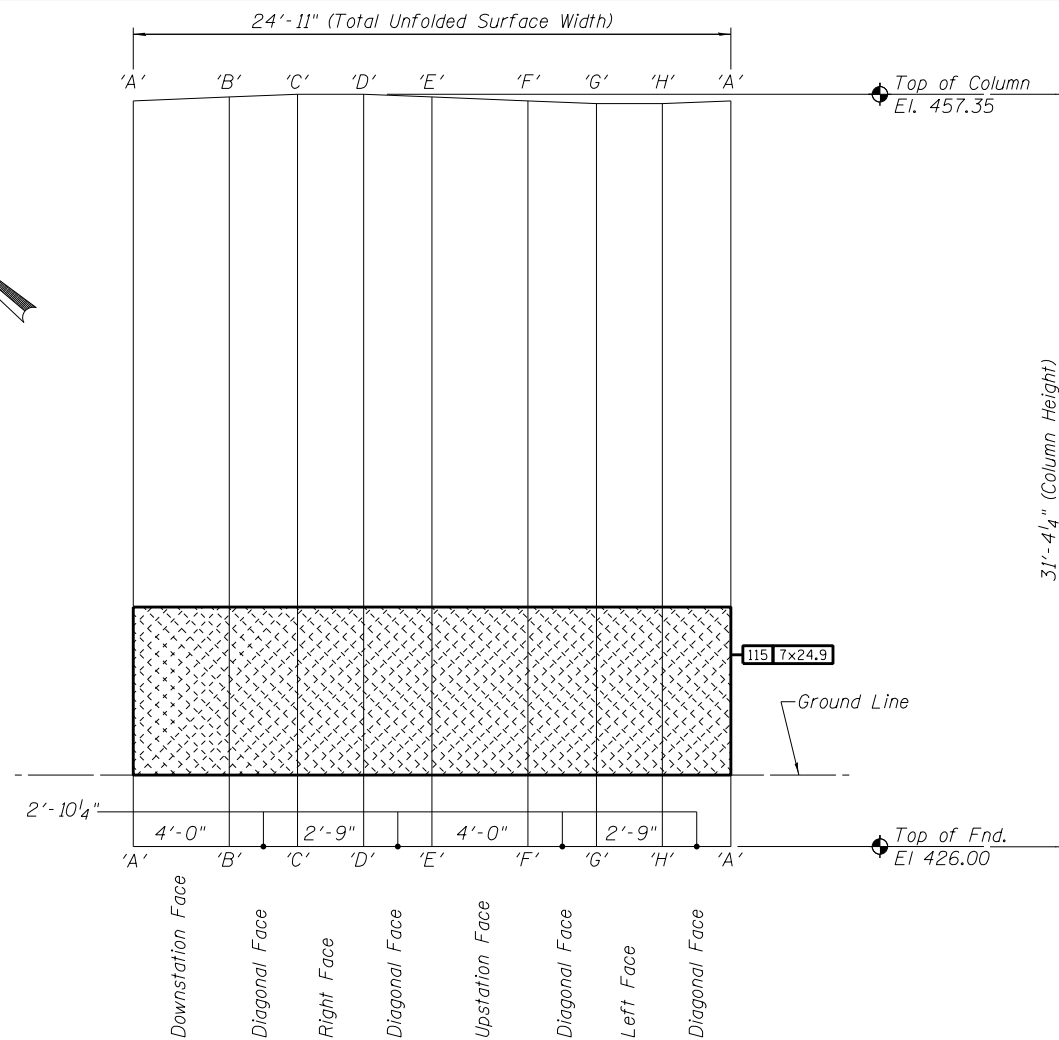
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	52
CONTRACT NO. 76E73				



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



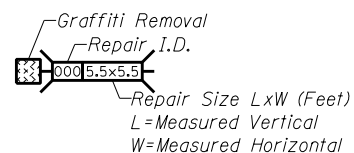
**PIER COLUMN - PLAN**  
 Looking North



**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
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



**GRAFFITI REMOVAL**

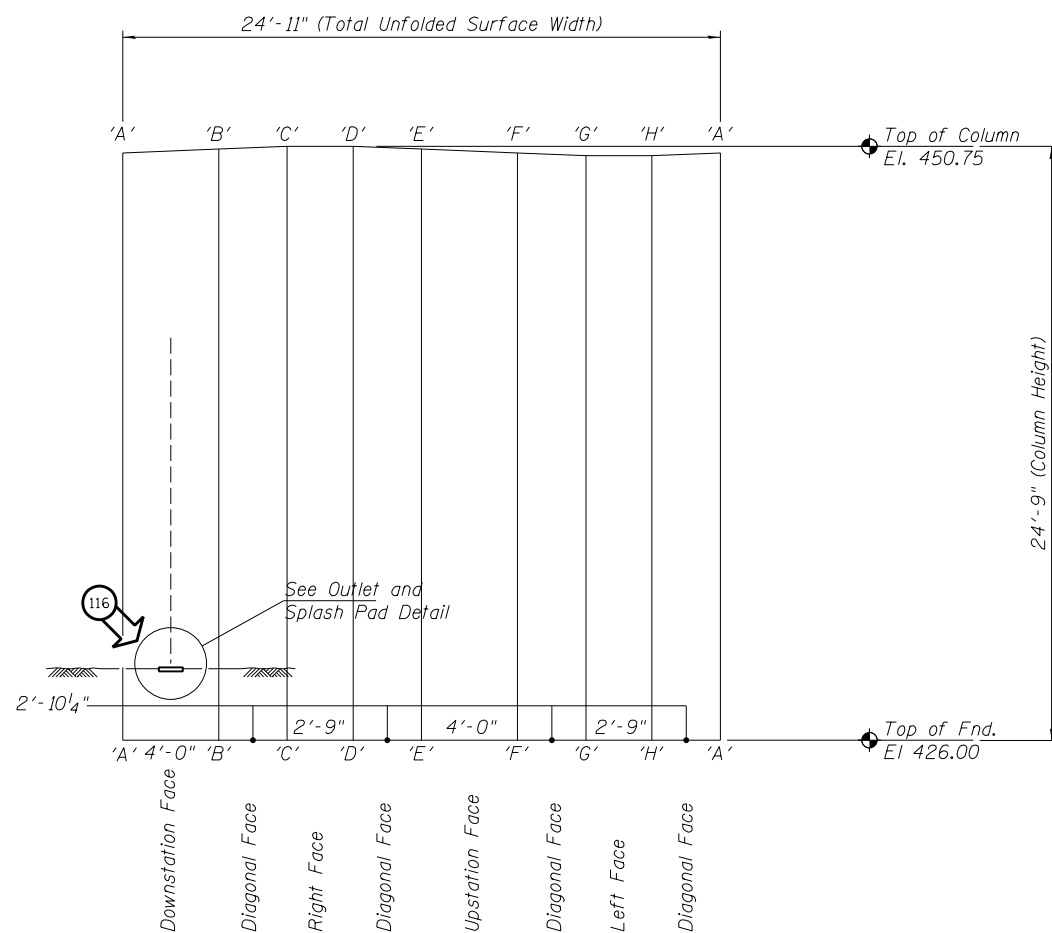
DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

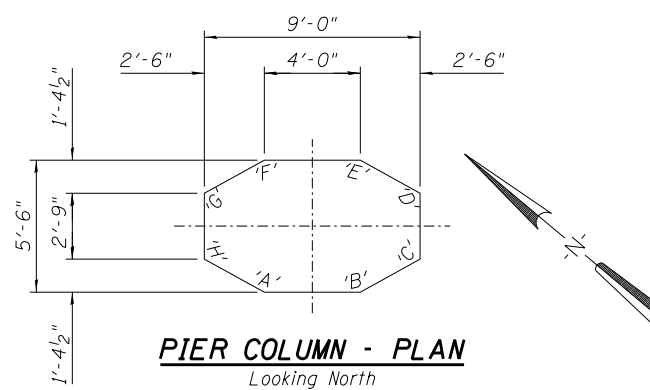
**REPAIRS TO - PIER NUMBER 19 - COLUMNS  
 STRUCTURE NO. 060-0255**

SHEET NO. 43 OF 48 SHEETS

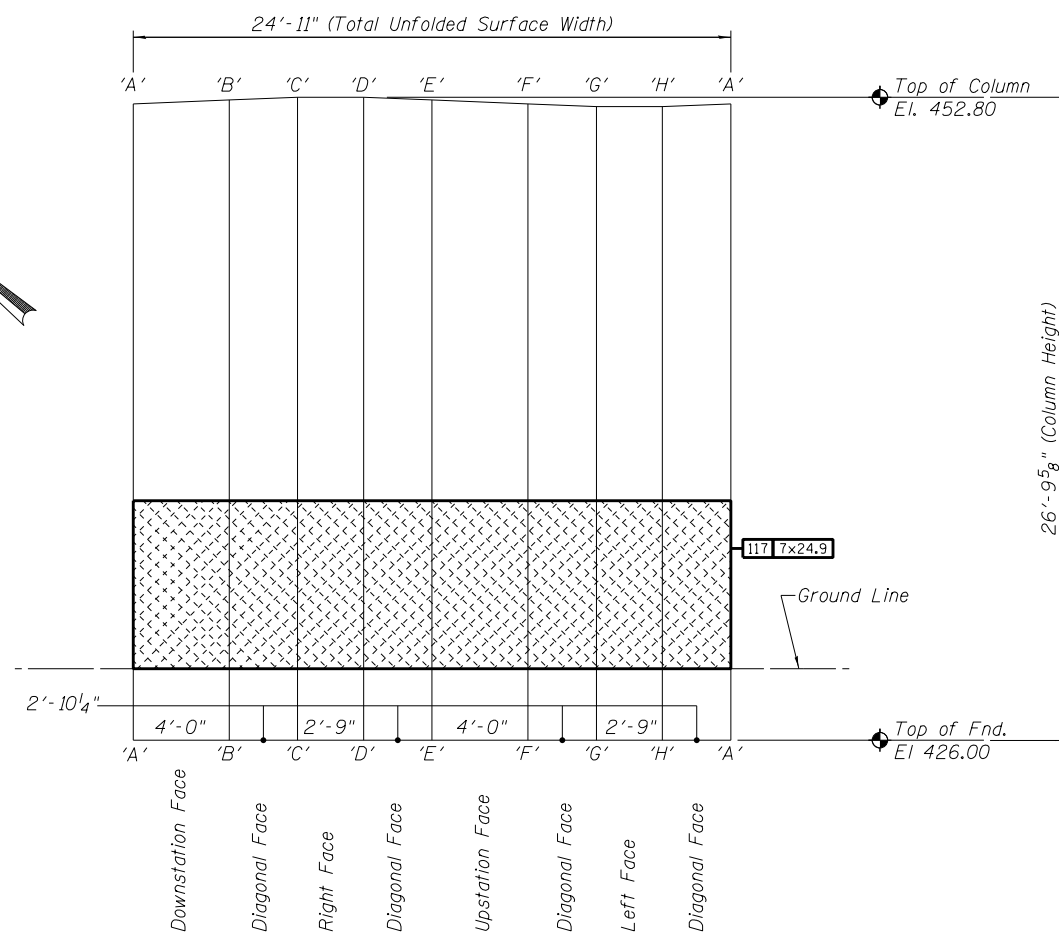
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1D5-1	MADISON	58	53
<b>CONTRACT NO. 76E73</b>				
ILLINOIS FED. AID PROJECT				



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



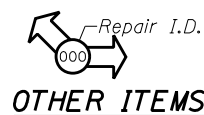
**PIER COLUMN - PLAN**  
Looking North



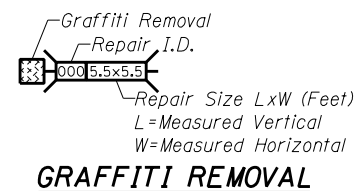
**PIER NO. 20 - ELEVATION - RIGHT COLUMN**  
Column Surface Shown Unfolded

**REPAIRS LIST - PIER 20 - COLUMNS**

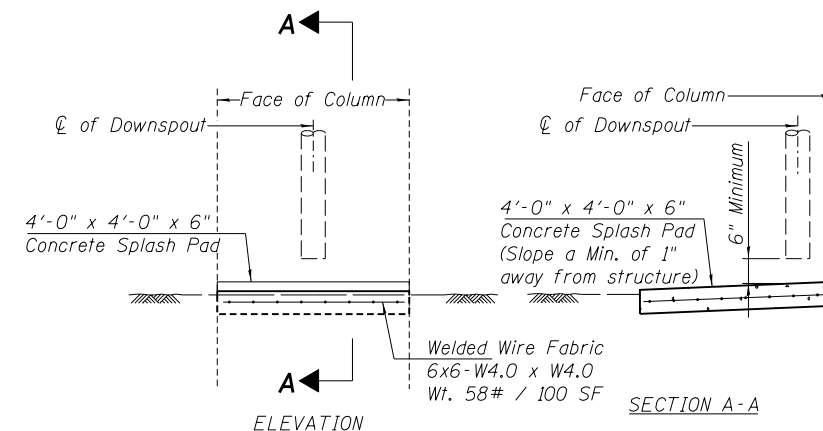
I.D.	Description	Pay Item	Units	Quantity
116	Erosion Under Drain Outlet	Slope Wall 6 Inch	SQ. YD.	1.78
117	Gaffiti on Concrete	Graffiti Removal	SQ. YD.	19.37
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



**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	

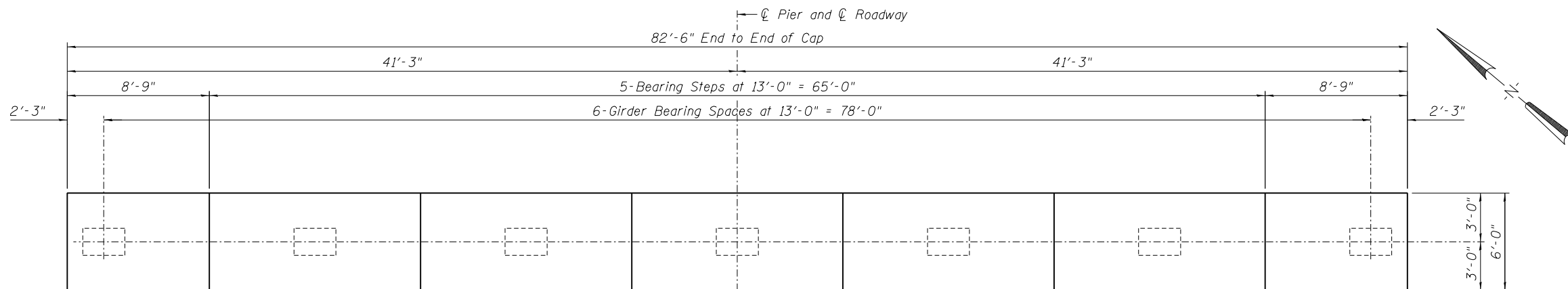
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**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-ID5-1	MADISON	58	54
<b>CONTRACT NO. 76E73</b>				
ILLINOIS FED. AID PROJECT				

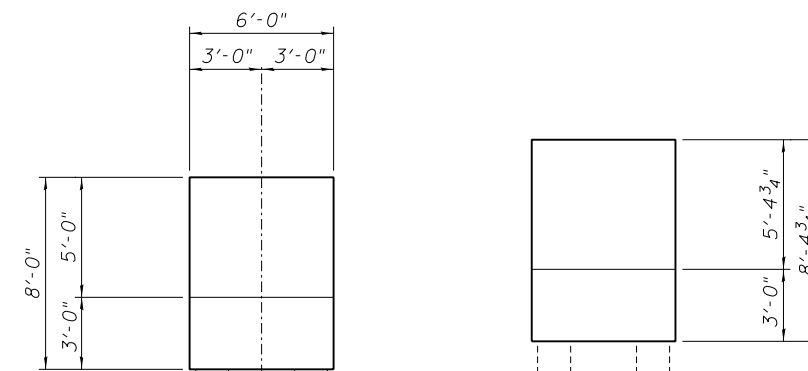




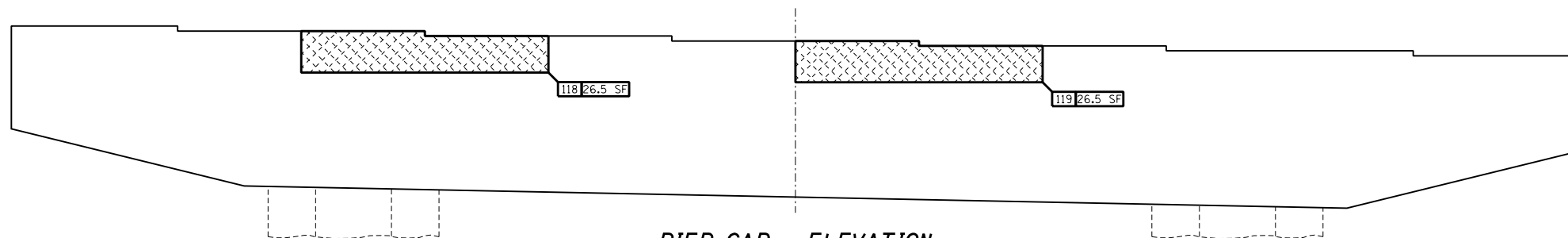
**PIER CAP - PLAN - PIER 21**



**PIER CAP - ELEVATION**  
Looking North



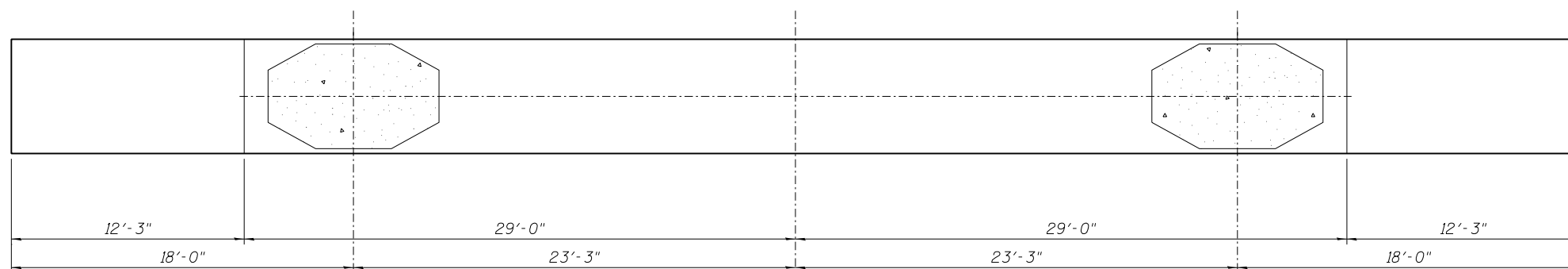
**PIER CAP - END ELEVATIONS**



**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
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

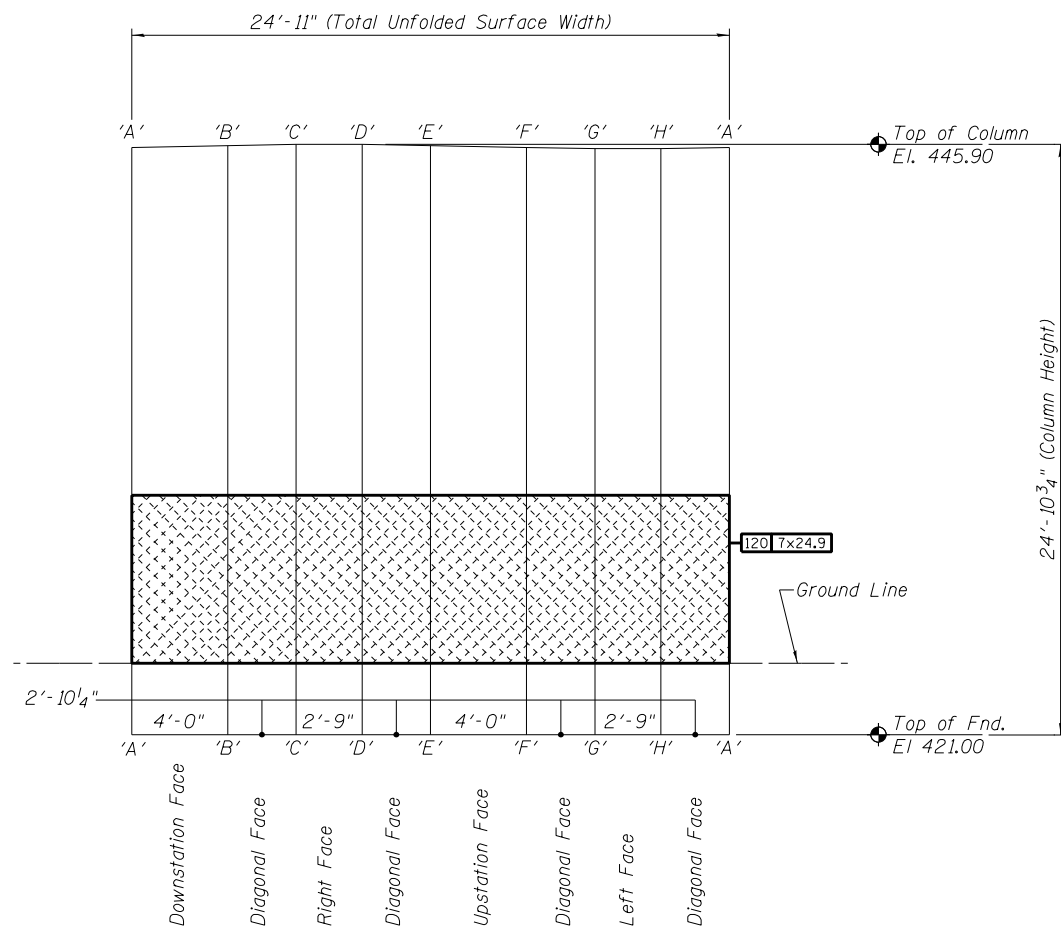
DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

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

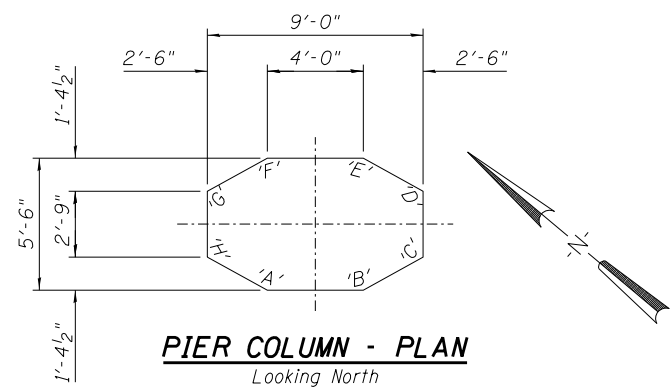
**REPAIRS TO - PIER NUMBER 21 - CAP**  
**STRUCTURE NO. 060-0255**

SHEET NO. 45 OF 48 SHEETS

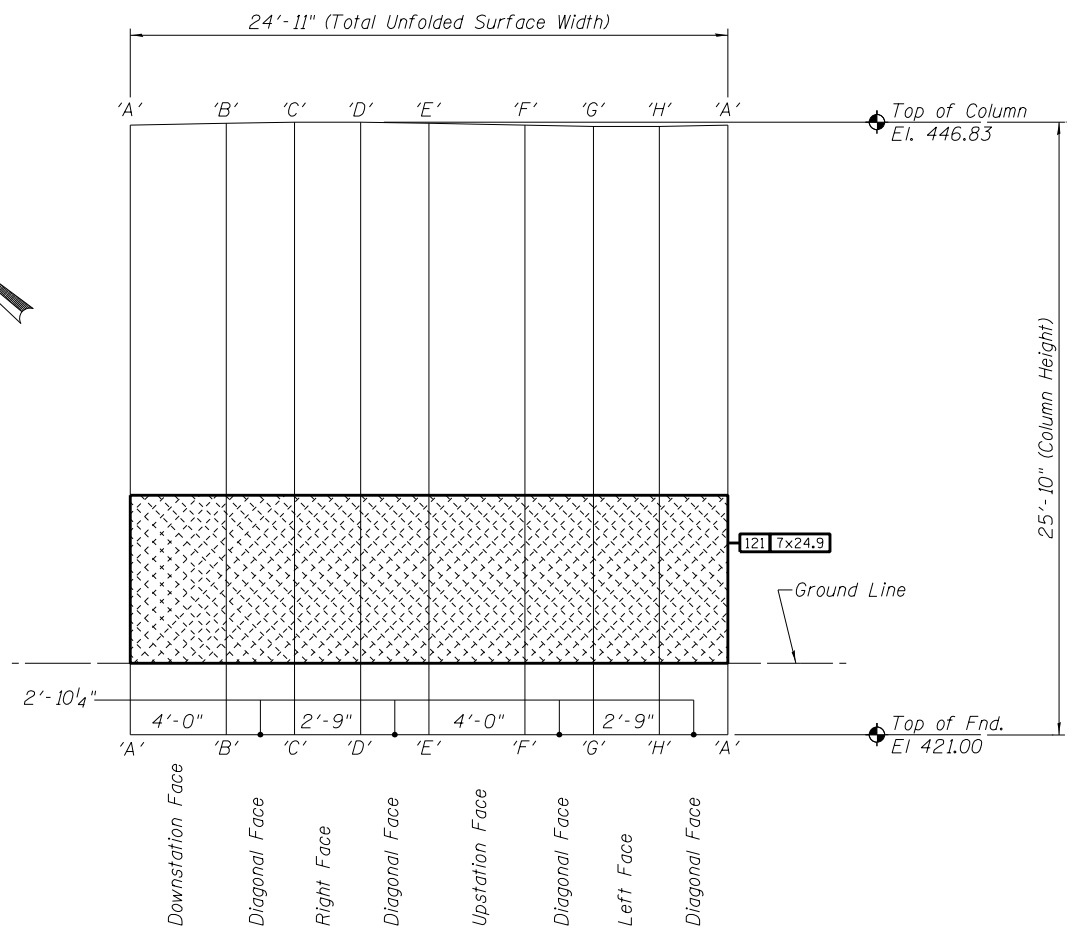
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	55
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	



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



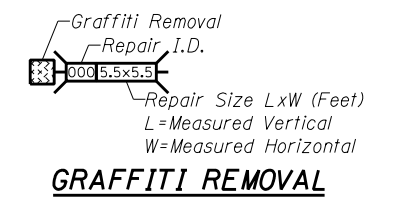
**PIER COLUMN - PLAN**  
 Looking North



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

**REPAIRS LIST - PIER 21 - COLUMNS**

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

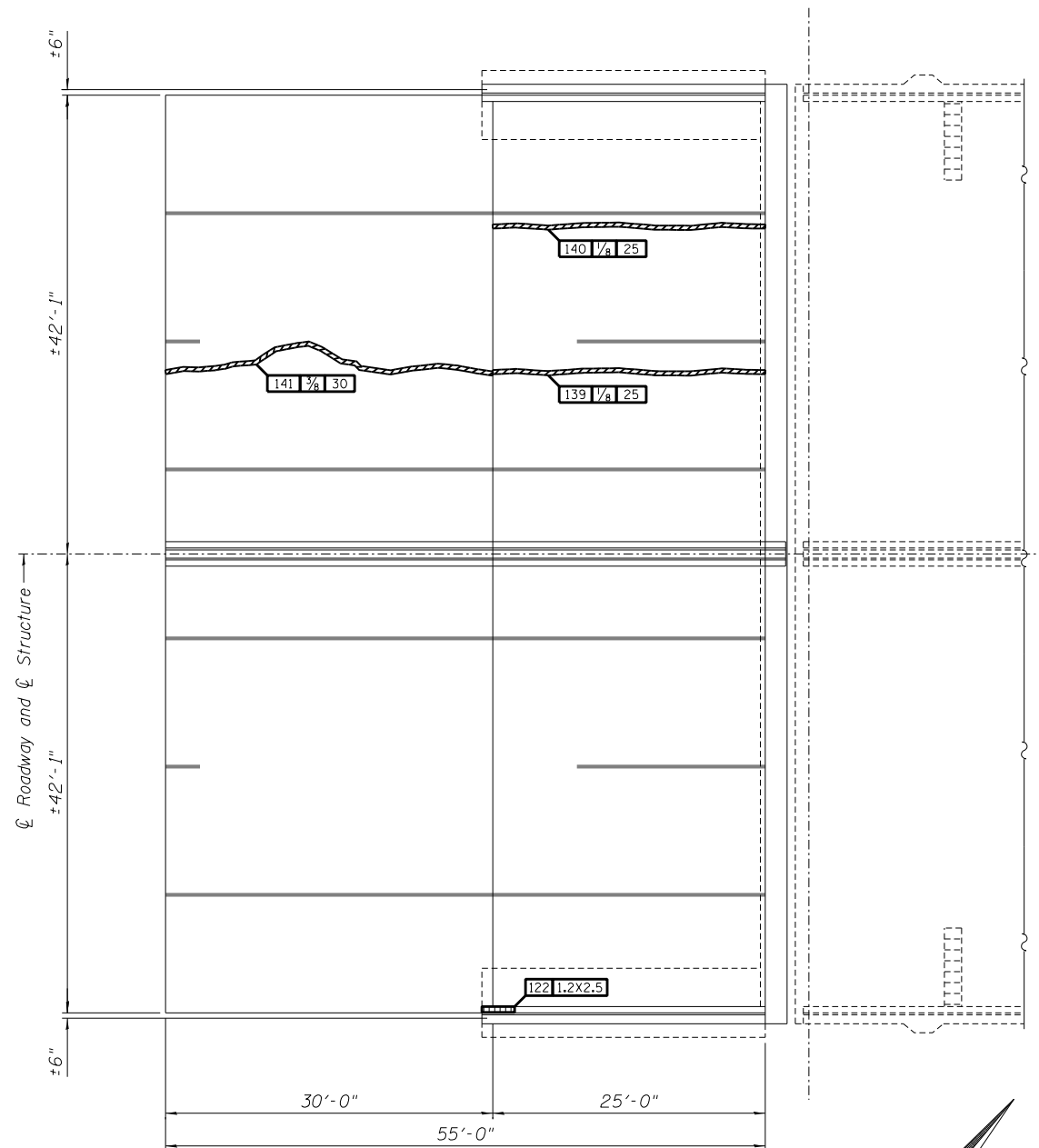


DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

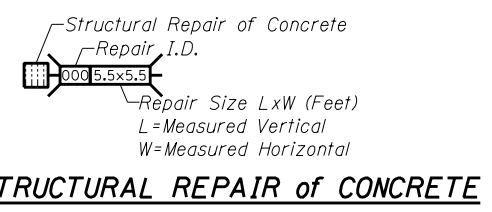
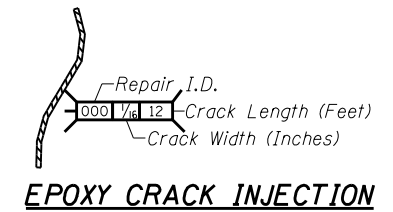
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1D5-1	MADISON	58	56
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				



**MISSOURI BRIDGE APPROACH SLAB**



**REPAIRS LIST - MISSOURI APPROACH SLAB**

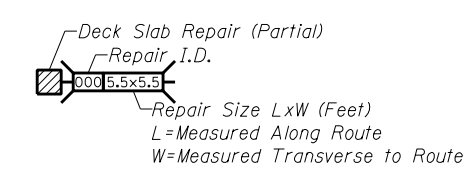
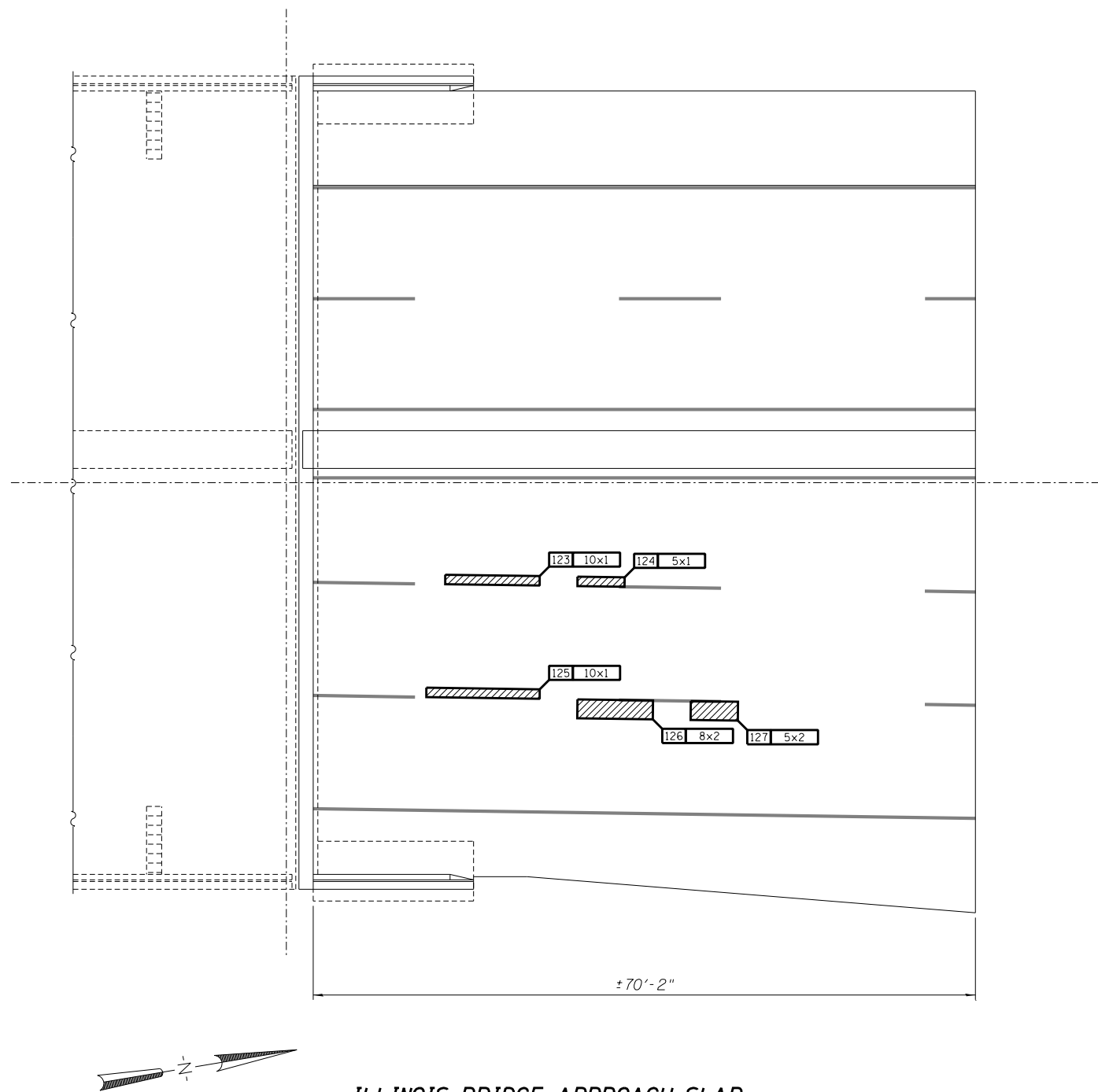
I.D.	Description	Pay Item	Units	Quantity
122	Spalled Concrete Curb	Structural Repair of Concrete (Depth equal to or less than 5 Inches)	SQ. FT.	3.0
139	1/8" Slab Crack West Bound Lanes	Epoxy Crack Injection	FOOT	25
140	1/8" Slab Crack West Bound Lanes	Epoxy Crack Injection	FOOT	25
141	3/8" Slab Crack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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REPAIRS TO - MISSOURI APPROACH SLAB  
STRUCTURE NO. 060-0255**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1D5-1	MADISON	58	57
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				



**DECK SLAB REPAIR (PARTIAL)**

**ILLINOIS BRIDGE APPROACH SLAB**

**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 - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REPAIRS TO - ILLINOIS APPROACH SLAB  
STRUCTURE NO. 060-0255**

SHEET NO. 48 OF 48 SHEETS

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