

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	1
		ILLINOIS	CONTRACT NO. 72N49	

+(75-1B-(3,4)) BDR, BRR, BJR, BP

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET 2

# PROPOSED HIGHWAY PLANS

FAI ROUTE 72 (I-72)  
SECTION (75-1B-(3,4)) BDR-BRR-BJR-BP  
PROJECT NHPP-K8M9(341)  
BRIDGE DECK OVERLAY  
PIKE COUNTY

**INDEX OF SHEETS**

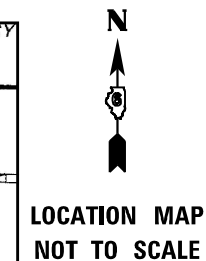
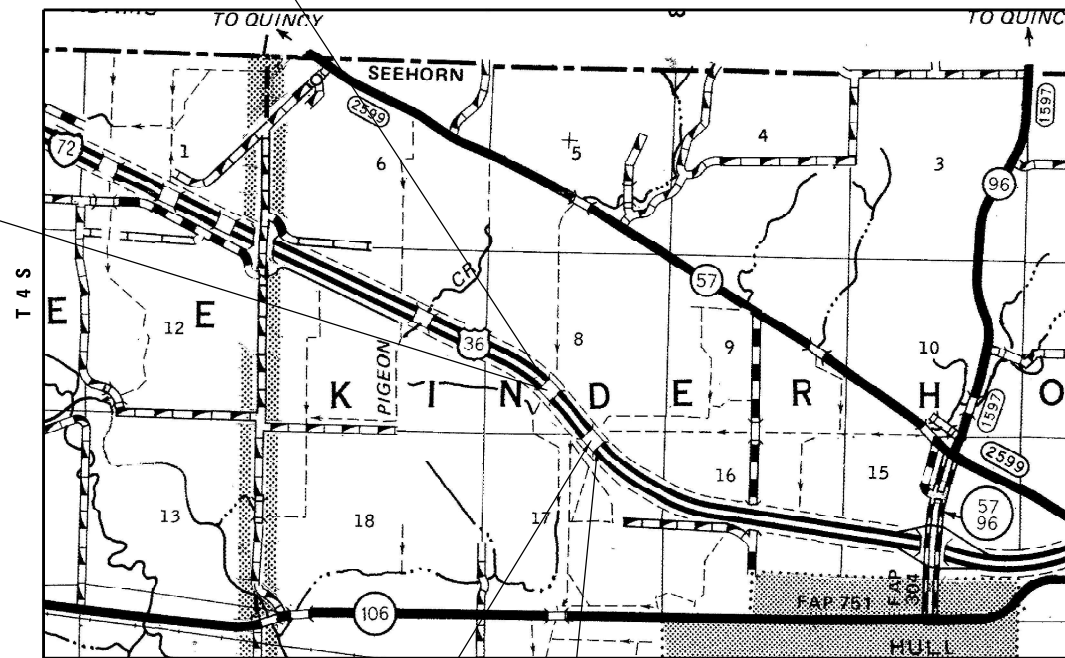
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- 48 APPROACH SLABS GUARDRAIL/INLET PLAN
- 49 JOINT DETAILS

**EXISTING SN 075-0084 & 075-0085**  
6-SPAN 480' BK-BK ABUTS  
3-SPAN, 2-UNIT PPCI-BEAM STRUCTURE  
OVER PIGEON CREEK

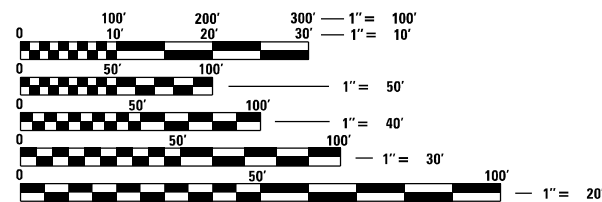
**BEGIN IMPROVEMENT**  
STA. 1213 + 49

C-96-030-22

R 7 W, 3RD PM



LOCATION MAP NOT TO SCALE



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 EXCAVATORS  
1-800-892-0123  
OR 811

**EXISTING SN 075-0086 & 075-0087**  
4-SPAN 414' BK-BK ABUTS  
CONTINUOUS STEEL STRUCTURE  
OVER WALNUT CREEK

**END IMPROVEMENT**  
STA. 1238 + 46

GROSS LENGTH = 2497 FT. = 0.473 MILE  
NET LENGTH = 2497 FT. = 0.473 MILE



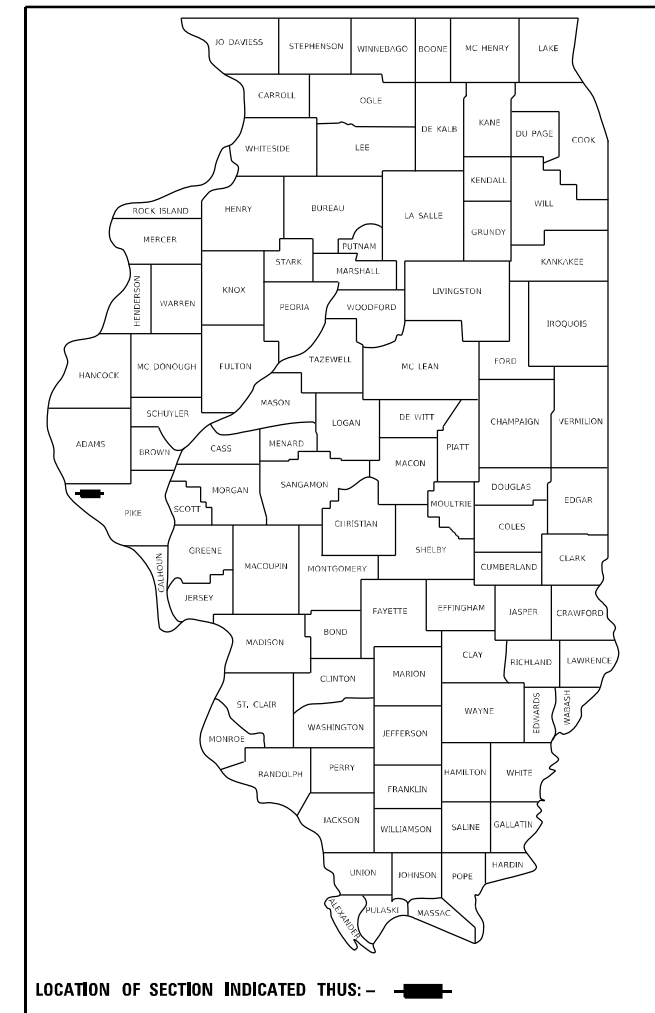
PROJECT ENGINEER BRIAN LANINGHAM 217-782-6990  
PROJECT MANAGER CONSULTANT 217-782-6990

CONTRACT NO. 72N49



DATE: AUGUST 25 20 22  
EXPIRES: NOVEMBER 30 20 23

D-96-026-22



FAI 72  
FUNCTIONAL CLASSIFICATION  
PRINCIPAL ARTERIAL/INTERSTATE  
2021 ADT 8400  
P.V. = 66.0% S.U. = 34.0% M.U. = 31.0%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 30 20 22

*Jeffrey P. Myers* REGIONAL ENGINEER  
October 14, 2022

*Scott A. Etk*  
ENGINEER OF DESIGN AND ENVIRONMENT  
October 14, 2022

*Stephen M. Smith*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

### GENERAL NOTES

- ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED
- UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE. THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT. EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:
 

BITUMINOUS MATERIALS (TACK COAT)	0.05 LBS/SQ FT (ON PAVEMENT)
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LBS/SQ FT (ON AGGREGATE)
BITUMINOUS MATERIALS (TACK COAT)	0.025 LBS/SQ FT (FOG)
HOT-MIX ASPHALT MATERIAL	0.056 TON/SQ YD PER 1"
AGGREGATE MATERIAL	1.60 TONS/CU YD
- AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.
- THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION FOR APPROVAL TO THE RESIDENT ENGINEER BEFORE THIS PROJECT IS STARTED.
- SYNTHETIC FIBERS ARE NOT REQUIRED FOR THE BRIDGE DECK MICROSILICA CONCRETE OVERLAY.

### COMMITMENTS

THERE ARE NO COMMITMENTS.

THE FOLLOWING MIXTURE REQUIREMENTS FOR THIS PROJECT:

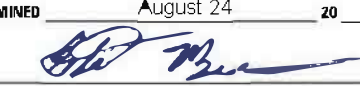
LOCATION	I-72 Mainline	I-72 Mainline	I-72 Shoulders Top	I-72 Shoulders Bottom Lifts
MIXTURE USE	HMA Surface Course	HMA Binder Course	HMA Shoulders	HMA Shoulders
AC/PG	SBS PG 70-28	SBS PG 70-28	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N90	4.0% @ N90	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL-9.5	IL-9.5 FG	IL-9.5	IL-19.0
FRICTION AGGREGATE	Mix "D"	N/A	Mix "C"	N/A
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A	N/A	N/A

### LIST OF STANDARDS


000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
610001-09	SHOULDER INLET WITH CURB
630001-12	STEEL PLATE BEAM GUARDRAIL
631033-08	TRAFFIC BARRIER TERMINAL, TYPE 6B
642001-03	SHOULDER RUMBLE STRIPS, 16 IN.
701101-05	OFF-RD OPERATIONS, MULTILANE, 15'(4.5m) TO 24'(600mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15'(4.5m) AWAY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER, DAY OPERATIONS ONLY
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45mph
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-10	PAVEMENT JOINTS
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DISTRICT 6**


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EXAMINED August 24 2022  
  
 ENGINEER OF OPERATIONS

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EXAMINED August 23 2022  
  
 ENGINEER OF PROJECT IMPLEMENTATION

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EXAMINED August 22 2022  
  
 ENGINEER OF PROGRAM DEVELOPMENT

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PLOT DATE = 8/22/2022	CHECKED - MJT	REVISED -
	DATE - 06/22/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, COMMITMENTS AND  
LIST OF STANDARDS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	2
			CONTRACT NO. 72N49	
* (75-1B-(3.4)) BDR, BRR, BJR, BP				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	6-01507-0000	6-00837-0000
				90% FED	90% FED
				10% STATE	10% STATE
				BRIDGE	BRIDGE
				0059	0059
				S.N. 075-0084 & 0085	S.N. 075-0086 & 0087
20800150	TRENCH BACKFILL	CU YD	2	2	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	4526	2198	2328
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	496	248	248
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	744	372	372
40600990	TEMPORARY RAMP	SQ YD	414	207	207
40603219	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90	TON	240	120	120
40604164	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	555	267	288
44004250	PAVED SHOULDER REMOVAL	SQ YD	5558	3180	2378
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	64	31	33
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	5547	3169	2378
48203100	HOT-MIX ASPHALT SHOULDERS	TON	302	146	156
50102400	CONCRETE REMOVAL	CU YD	52.8	22.6	30.2
50105220	PIPE CULVERT REMOVAL	FOOT	32	32	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	61.8	25.6	36.2



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	DATE - 06/22/2022	REVISED -

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

SUMMARY OF QUANTITIES			
SCALE:	SHEET 1	OF 5 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKI	49	3
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3.4)) BDR, BRR, BJR, BP



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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	6-01507-0000		6-00837-0000	
				90% FED 10% STATE		90% FED 10% STATE	
				BRIDGE		BRIDGE	
				0059		0059	
S.N. 075-0084 & 0085		S.N. 075-0086 & 0087					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	6	6		
67100100	MOBILIZATION	L SUM	1	0.5	0.5		
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.5	0.5		
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.5	0.5		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	360	180	180		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	600	306	294		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	200	102	98		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2682	1431	1251		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2682	1431	1251		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2	2		
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2	2		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	4	4		
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	6814	3510	3304		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16	6	10		

\* SPECIALTY ITEM

\* (75-1B-(3,4)) BDR, BRR, BJR, BP



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKI	49	5
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	6-01507-0000	6-00837-0000
				90% FED 10% STATE BRIDGE 0059 S.N. 075-0084 & 0085	90% FED 10% STATE BRIDGE 0059 S.N. 075-0086 & 0087
72200005	GUARDRAIL REFLECTORS, TYPE A	EACH	24	12	12
72200010	BARRIER WALL REFLECTORS, TYPE B	EACH	68	36	32
72300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	16	6	10
72300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	10096	5048	5048
X0325748	ACRYLIC COATING	SQ YD	7.4	7.4	
X0325749	FIBER WRAP	SQ FT	74	74	
X1200030	FILLING INLETS, TEMPORARY	EACH	4	2	2
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	4768	2560	2208
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
X5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	1	
X5060603	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1		1
X5060604	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1		1
X6024503	INLETS TO BE ADJUSTED WITH NEW FRAME AND GRATE (SPECIAL)	EACH	6	2	4
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	4	2	2

\* DENOTES SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72N49	

\* (75-1B-(3.4)) BDR, BRR, BJR, BP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	6-01507-0000	6-00837-0000
				90% FED	90% FED
				10% STATE	10% STATE
				BRIDGE 0059	BRIDGE 0059
		S.N. 075-0084 & 0085	S.N. 075-0086 & 0087		
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	0.5	0.5
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	200	100	100
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1	
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1		1
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1		1
Z0010615	CLEANING EXISTING INLETS	EACH	6	2	4
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	7884	4248	3636
Z0012166	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 3/4"	SQ YD	7884	4248	3636
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	201	96	105
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	3	3	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	31	1	30
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	3	1	2
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	7946	4266	3680
∅ Z0076600	TRAINEES	HOUR	2000	2000	
Z0041895	POLYMER CONCRETE	CU FT	45	21	24
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	2000	2000	
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	22	22	

\* DENOTES SPECIALTY ITEM  
∅ 0042

REV. - MS

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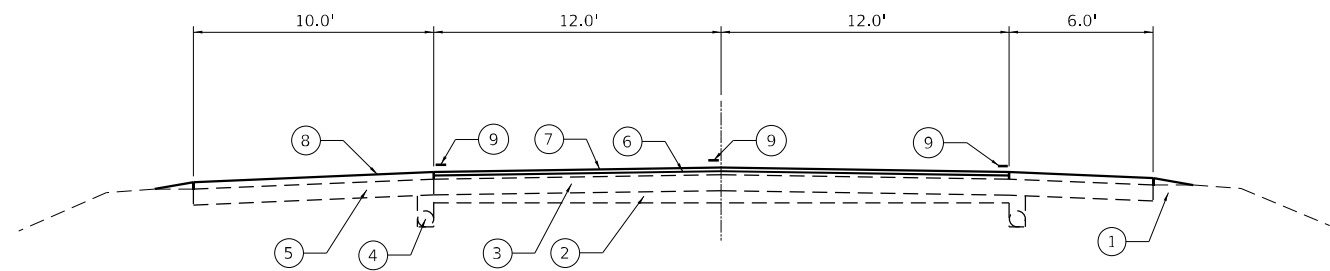
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 5	OF 5 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	7
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

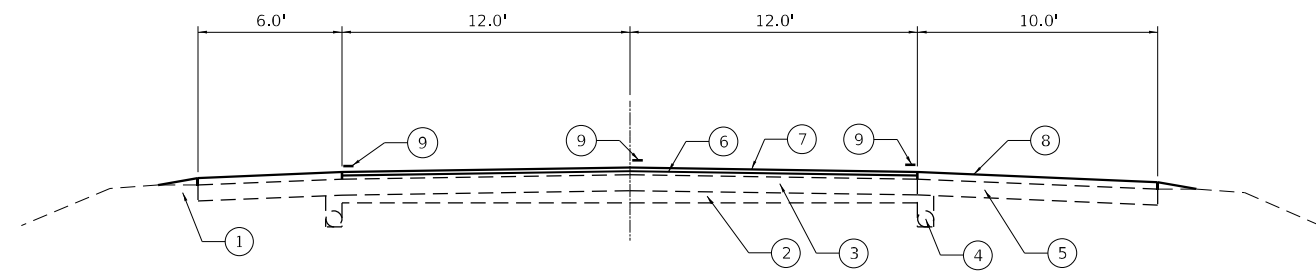
\* (75-1B-(3.4)) BDR, BRR, BJR, BP

### F.A.I. 72 – WESTBOUND



- STA. TO STA. \* 1213+49 TO 1215+16
- STA. TO STA. \* 1219+88 TO 1221+25
- STA. TO STA. \* 1231+12 TO 1232+52
- STA. TO STA. \* 1236+56 TO 1238+46
- \*BRIDGE APPROACH PAVEMENT
- STA. TO STA. 1214+16 TO 1215+16
- STA. TO STA. 1219+88 TO 1220+90
- STA. TO STA. 1231+47 TO 1232+52
- STA. TO STA. 1236+56 TO 1237+56

### F.A.I. 72 – EASTBOUND



- STA. TO STA. \* 1213+81 TO 1215+50
- STA. TO STA. \* 1220+27 TO 1221+65
- STA. TO STA. \* 1230+46 TO 1231+86
- STA. TO STA. \* 1235+90 TO 1237+80
- \*BRIDGE APPROACH PAVEMENT
- STA. TO STA. 1214+50 TO 1215+50
- STA. TO STA. 1220+27 TO 1221+30
- STA. TO STA. 1230+81 TO 1231+86
- STA. TO STA. 1235+90 TO 1236+90

**LEGEND**

- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING 4" STABILIZED SUB-BASE
- ③ EXISTING 8" C.R.P.C.C. PAVEMENT
- ④ EXISTING PIPE UNDERDRAINS - 4"
- ⑤ EXISTING BITUMINOUS CONCRETE SHOULDER - 8"
- ⑥ PROPOSED HMA BINDER COURSE, VARIABLE DEPTH
- ⑦ PROPOSED HMA SURFACE COURSE 1 3/4"
- ⑧ PROPOSED HMA SHOULDER WITH RUMBLE STRIP
- ⑨ PROPOSED MODIFIED URETHANE PAVEMENT MARKING - LINE 5"

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**KT** **KUHN & TRELLO**  
 CONSULTING ENGINEERS  
 A Limited Liability Company  
 109 N. 7th Street, 3rd Floor  
 Springfield, IL 62702  
 Phone: 217-418-0214  
 Professional Design Firm No. 284-006516

USER NAME = myyoung	DESIGNED - JLS	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	8
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3,4)) BDR, BRR, BJR, BP



**INLET SCHEDULE**

LOCATION	COMMENTS	FILLING INLETS, TEMPORARY	INLETS TO BE ADJUSTED WITH NEW FRAME AND GRATE (SPECIAL)	CLEANING EXISTING INLETS	PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS D, TYPE 1 12"	METAL FLARED END SECTIONS 12"	REMOVING INLETS	TYPE E INLET BOX, STANDARD 610001	TYPE F INLET BOX, STANDARD 610001
		X1200030	X6024503	Z0010615	50105220	542D0217	54262712	60500060	61000115	61000225
STATION		EACH	EACH	EACH	FOOT	FOOT	EACH	EACH	EACH	EACH
<b>EB-72</b>										
1215+41 RT	OUTSIDE	1.0			16.0	16.0	1.0	1.0		1.0
1220+56 RT	OUTSIDE	1.0	1.0	1.0						
1235+91 RT	OUTSIDE	1.0	1.0	1.0						
1236+24 RT	MEDIAN		1.0	1.0						
<b>WB-72</b>										
1215+06 LT	MEDIAN		1.0	1.0						
1220+14 LT	MEDIAN				16.0	16.0	1.0	1.0	1.0	
1236+60 LT	MEDIAN		1.0	1.0						
1236+94 LT	OUTSIDE	1.0	1.0	1.0						
<b>TOTAL</b>		<b>4</b>	<b>6</b>	<b>6</b>	<b>32</b>	<b>32</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>

**BUTT JOINT SCHEDULE**

LOCATION	WIDTH	LENGTH	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP
			40600982	40600985	40600990
STATION TO STATION	FT	FT	SQ YD	SQ YD	SQ YD
<b>EB-72</b>					
1213+81	1214+16	40.00	35.00	62.00	93.0
1213+81	1215+50	40.00	2 @ 5.83		51.8
1221+30	1221+65	40.00	35.00	62.00	93.0
1220+27	1221+65	40.00	2 @ 5.83		51.8
1230+46	1230+81	40.00	35.00	62.00	93.0
1230+46	1231+86	40.00	2 @ 5.83		51.8
1237+45	1237+80	40.00	35.00	62.00	93.0
1235+90	1237+95	40.00	2 @ 5.83		51.8
<b>WB-72</b>					
1213+49	1213+84	40.00	35.00	62.00	93.0
1213+49	1215+16	40.00	2 @ 5.83		51.8
1220+90	1221+25	40.00	35.00	62.00	93.0
1219+88	1221+25	40.00	2 @ 5.83		51.8
1231+12	1231+47	40.00	35.00	62.00	93.0
1231+12	1232+52	40.00	2 @ 5.83		51.8
1238+11	1238+46	40.00	35.00	62.00	93.0
1236+56	1238+46	40.00	2 @ 5.83		51.8
<b>TOTAL</b>			<b>496</b>	<b>744</b>	<b>414</b>

**PAVING SCHEDULE**

LOCATION	WIDTH	LENGTH	BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, 1L-9.5FG, N90	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N90	AGGREGATE WEDGE SHOULDER, TYPE B
			40600290	40603219	40604164	48102100
STATION TO STATION	FT	FT	POUND	TON	TON	TON
<b>EB-72</b>						
1213+81	1215+50	40	169	338	74	9
1214+50	1215+50	24	100	120	30	
1220+27	1221+65	40	138	276	60	7
1220+27	1221+27	24	100	120	30	
1230+46	1231+86	40	140	280	61	7
1230+86	1231+86	24	100	120	30	
1235+90	1237+80	40	190	380	83	10
1235+90	1236+90	24	100	120	30	
<b>WB-72</b>						
1213+49	1215+16	40	167	334	73	9
1214+16	1215+16	24	100	120	30	
1219+88	1221+25	40	137	274	60	7
1219+88	1220+88	24	100	120	30	
1231+12	1232+52	40	140	280	61	7
1231+52	1232+52	24	100	120	30	
1236+56	1238+46	40	190	380	83	10
1236+56	1237+56	24	100	120	30	
<b>TOTAL</b>			<b>3,502</b>	<b>240</b>	<b>555</b>	<b>64</b>

**GUARDRAIL SCHEDULE**

LOCATION	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6B	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
STATION TO STATION	FOOT	EACH	EACH	FOOT	EACH	EACH
<b>EB-72</b>						
1212+27	1215+27	LT (MED)	219.0	1.0	1.0	300.0
1212+56	1215+44	RT (OUTSIDE)	206.0	1.0	1.0	288.0
1228+70	1231+51	RT (OUTSIDE)	206.0	1.0	1.0	281.0
1228+91	1231+85	LT (MED)	219.0	1.0	1.0	294.0
<b>WB-72</b>						
1219+91	1222+79	LT (OUTSIDE)	206.0	1.0	1.0	288.0
1220+11	1223+11	RT (MED)	219.0	1.0	1.0	300.0
1236+41	1239+35	RT (MED)	219.0	1.0	1.0	294.0
1236+91	1239+72	LT (OUTSIDE)	206.0	1.0	1.0	281.0
<b>TOTAL</b>	<b>1,700</b>	<b>8</b>	<b>8</b>	<b>2,326</b>	<b>8</b>	<b>24</b>

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PLOT DATE = 8/23/2022	DATE - 06/22/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	9
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3,4)) BDR, BRR, BJR, BP

**BARRIER WALL SCHEDULE**

LOCATION	STAGE	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS TEMPORARY (FULLY REDIRECTIVE NARROW), TEST LEVEL 3	IMPACT ATTENUATORS RELOCATE (FULLY REDIRECTIVE NARROW), TEST LEVEL 3	BARRIER WALL REFLECTORS, TYPE B	TEMPORARY CONCRETE BARRIER
		70400200	70600260	70600332	78200010	70400100
		FOOT	EACH	EACH	EACH	FOOT
SN 075-0084	1		1		18.0	713.0
	2	713.0		1		
SN 075-0085	1		1		18.0	718.0
	2	718.0		1		
SN 075-0086	1		1		16.0	638.0
	2	638.0		1		
SN 075-0087	1		1		16.0	613.0
	2	613.0		1		
<b>TOTAL</b>		2,682	4	4	68	2,682

**PAVEMENT MARKING SCHEDULE**

LOCATION	COMMENT	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"		RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING REMOVAL - WATER BLASTING	RAISED REFLECTIVE PAVEMENT MARKER
				WHITE	YELLOW			
				70300100	70300150			
STATION TO STATION		FOOT	SQ FT	FOOT	FOOT	EACH	SQ FT	EACH
<b>EB - 72</b>								
1213+81	1221-65	153	51	975	780	3	2493	3
1230+46	1237-80	147	49	918	734	5	2493	5
<b>WB - 72</b>								
1213+49	1221-25	153	51	975	780	3	2555	3
1231+12	1238-46	147	49	918	734	5	2555	5
<b>Sub Total</b>				3786	3028			
<b>TOTALS</b>		600	200	6814		16	10096	16

**JOINT SCHEDULE**

LOCATION	POLYMER CONCRETE		
	Z0041895		
STATION	JOINT	LT / RT	CU FT
<b>EB - 72</b>			
1214+16	PJST	RT	3.5
1214+46	PJST	RT	3.5
1221+30	PJST	RT	3.5
1230+81	PJST	RT	3.5
1237+10	PJST	RT	3.5
1237+40	Beam Joint	RT	4.8
<b>WB - 72</b>			
1213+84	PJST	LT	3.5
1214+14	PJST	LT	3.5
1220+90	PJST	LT	3.5
1231+47	PJST	LT	3.5
1237+60	PJST	LT	3.5
1238+11	Beam Joint	LT	4.8
<b>TOTAL</b>			45

REV. - MS

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 Professional Design Firm No. 184-006516



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	DATE - 06/22/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72N49	

\* (75-1B-(3,4)) BDR, BRR, BJR, BP

**SHOULDER SCHEDULE**

LOCATION		LENGTH	SHLDR WIDTH	AREA	BITUMINOUS MATERIALS (TACK COAT)	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SHOULDERS 8"	HOT-MIX ASPHALT SHOULDERS	SHOULDER RUMBLE STRIPS, 16 INCH	
										FT
STATION TO	STATION	COMMENT				POUND	SQ YD	SQ YD	TON	FOOT
EB-72										
SN 075-0084										
1211+08	1215+46	Median	438	6	2628	50	292	292	15	438
1211+08	1215+54	Outside	446	10	4460	84	507	496	25	446
1220+23	1231+96	Median	1173	6	7038	78	782	782	24	1173
1220+31	1231+76	Outside	1145	10	11450	150	1272	1272	42	1145
SN 075-0086										
1236+00	1238+25	Median	225	6	1350	60	150	150	17	225
1235+80	1238+25	Outside	245	10	2450	90	272	272	28	245
WB-72										
SN 075-0085										
1212+76	1215+20	Median	244	6	1464	50	163	163	15	244
1212+76	1215+12	Outside	236	10	2360	84	262	262	25	236
1219+92	1230+32	Median	1040	6	6240	78	693	693	24	1040
1219+84	1230+32	Outside	1048	10	10480	150	1164	1164	42	1048
SN 075-0087										
1236+46	1238+46	Median	200	6	1200	60			17	200
1236+66	1238+46	Outside	180	10	1800	90			28	180
<b>TOTAL</b>						1,024	5,558	5,547	302	6,620

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DESIGNED - JLS  
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 CHECKED - MJT  
 DATE - 06/22/2022

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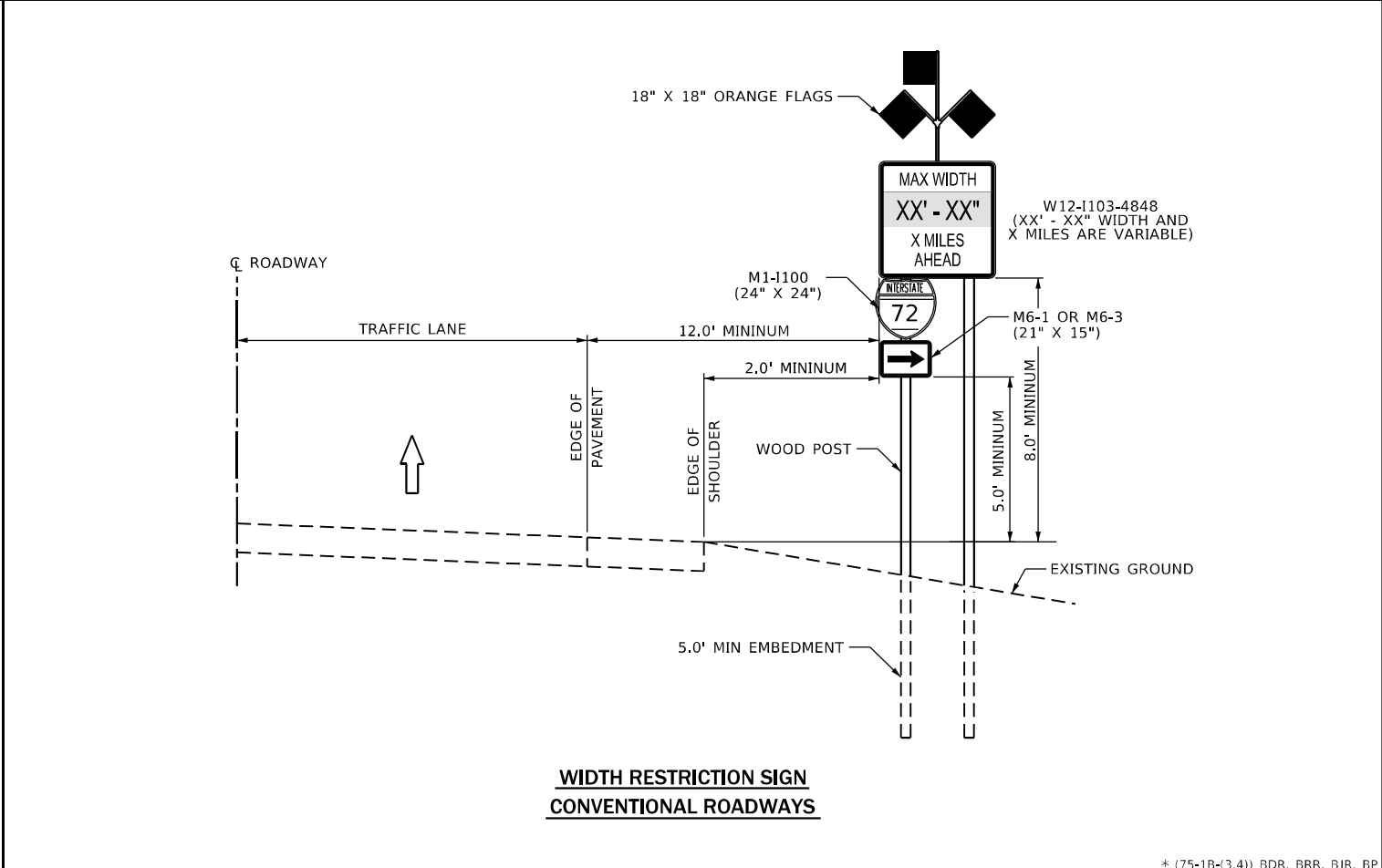
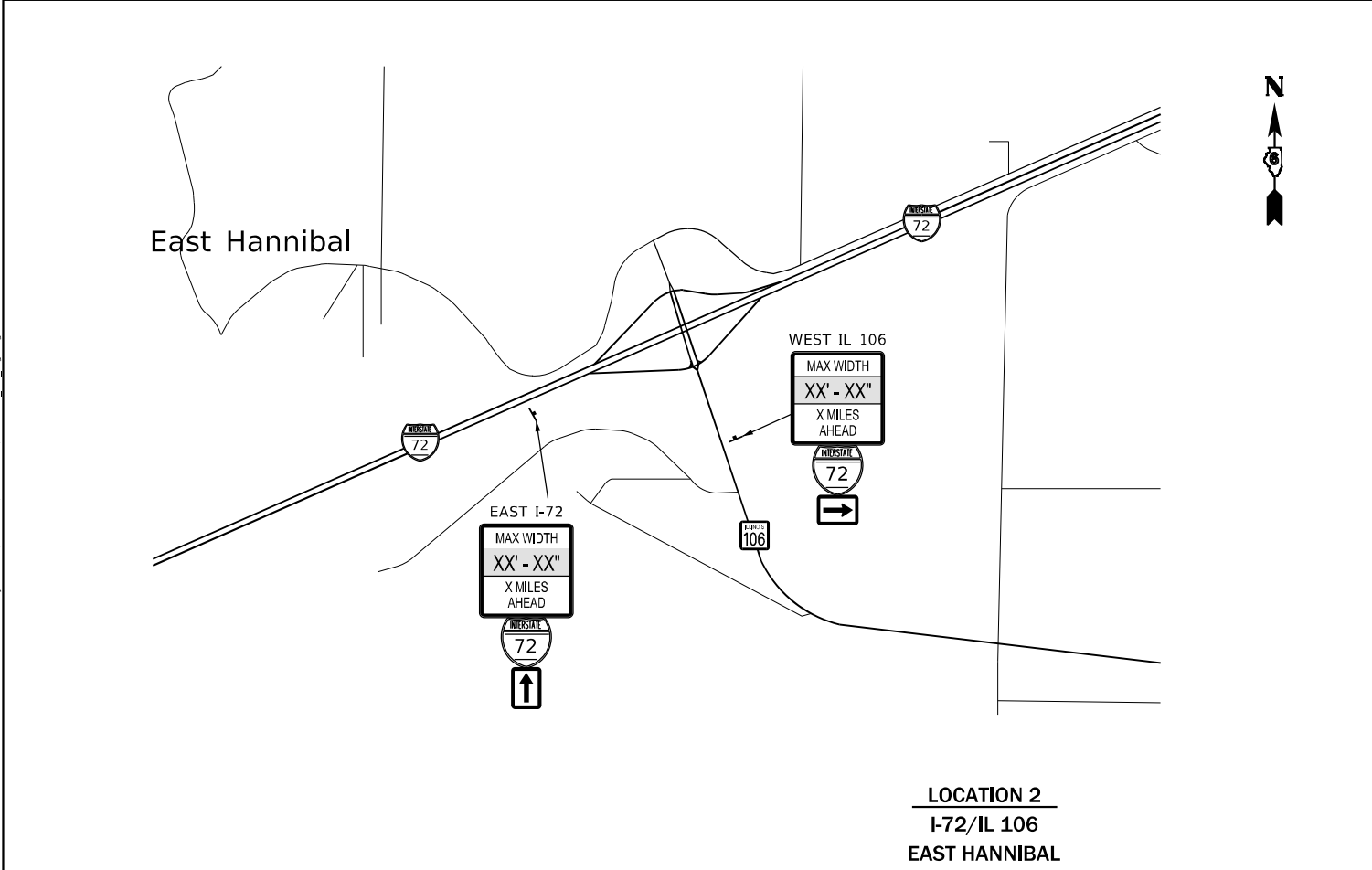
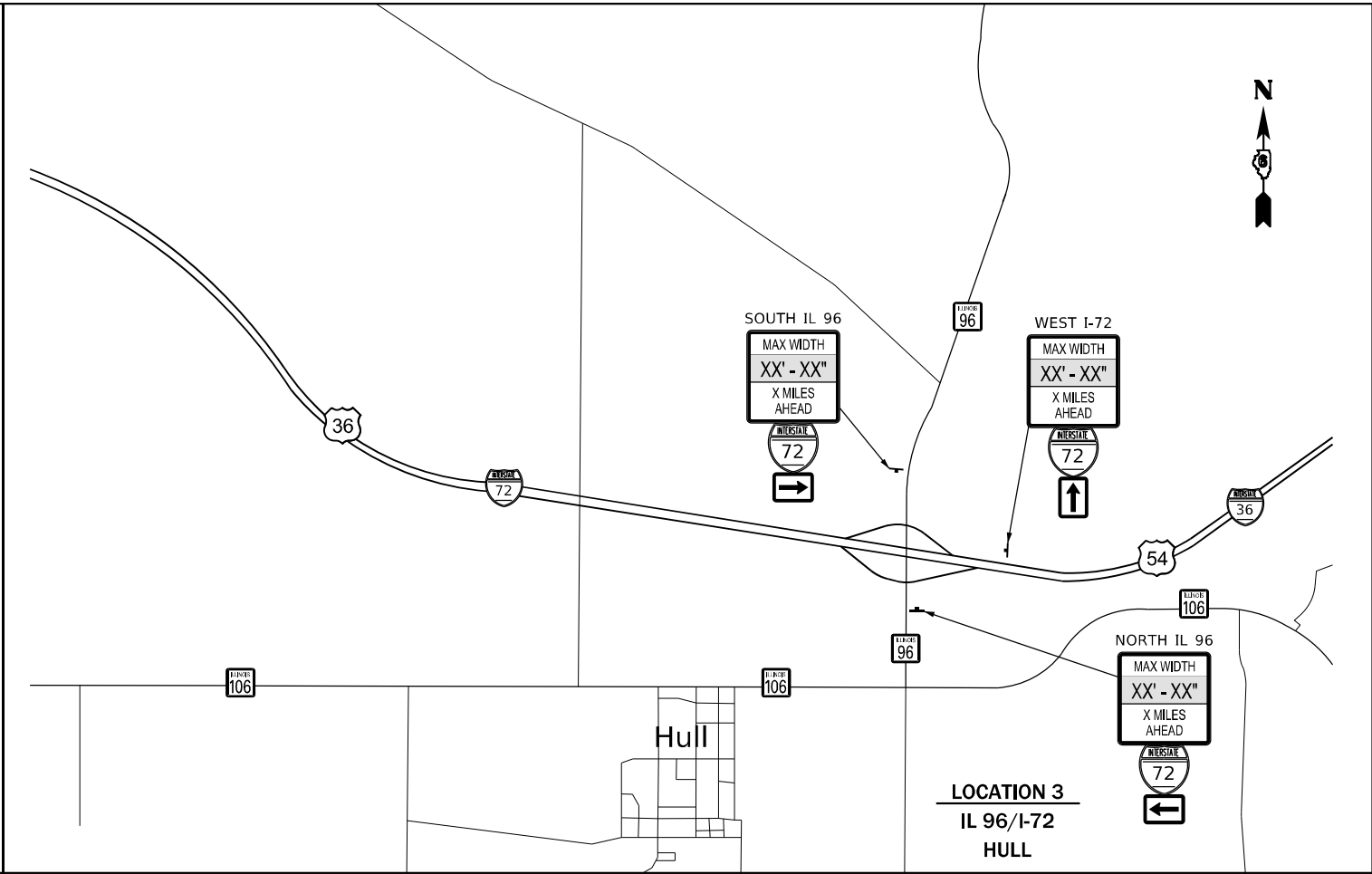
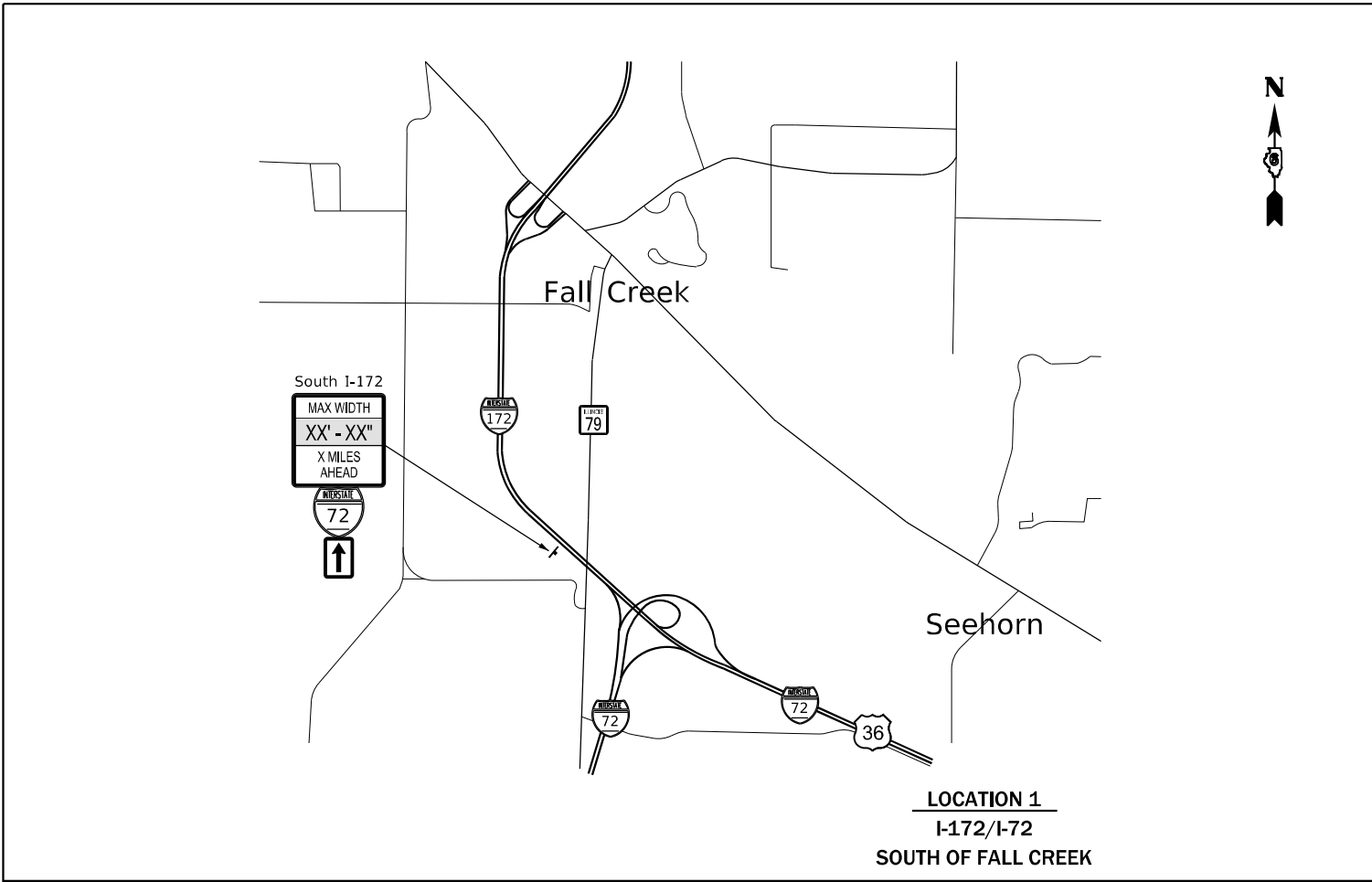
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	11
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3.4)) BDR, BRR, BJR, BP



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 Professional Design Firm No. 184-006516

<b>KUHN &amp; TRELLO</b> CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62702 Phone: 217-618-0214	USER NAME = myoung	DESIGNED - JLS	REVISED -
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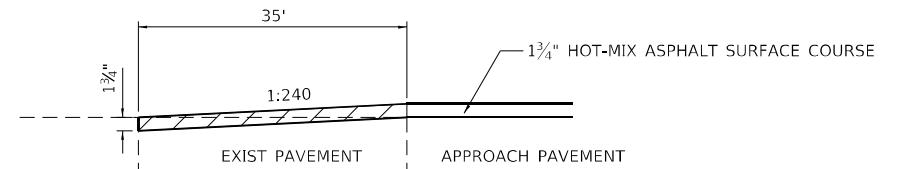
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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	STA.		TO STA.

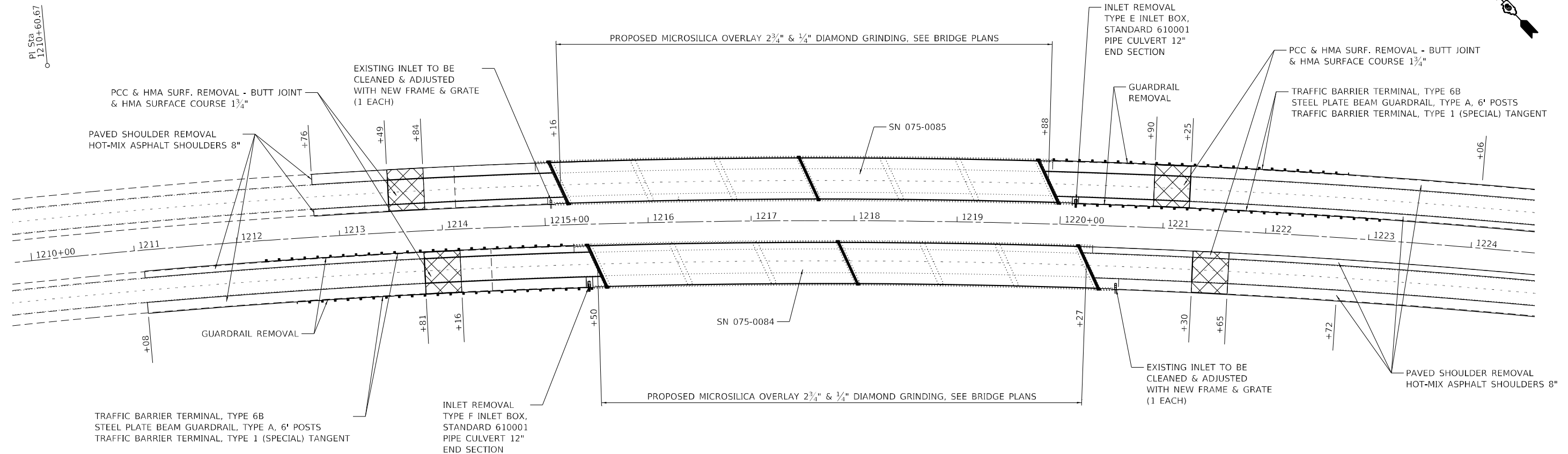
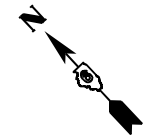
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	12
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3,4)) BDR, BRR, BJR, BP

EXIST. CURVE 550  
 PI STA. = 1210+60.67  
 $\Delta = 25^\circ 06' 20''$  (RT)  
 $D = 0^\circ 45' 00''$   
 $R = 7,638.13'$   
 $T = 1,700.72'$   
 $L = 3,346.84'$   
 $E = 187.05'$   
 $e =$   
 T.R. =  
 S.E. RUN =  
 P.C. STA. = 1193+59.95  
 P.T. STA. = 1227+06.79



**HOT-MIX ASPHALT SURFACE REMOVAL BUTT-JOINT DETAIL**



NOTE:  
 PROPOSED HMA BINDER TO BE PLACED AT STRUCTURE APPROACHES AND DEPARTURES TO FILL IN DIPS. CONTRACTOR SHALL STRINGLINE 100' OFF OF THE STRUCTURE ABUTMENTS. HMA BINDER QUANTITY WAS ESTIMATED USING AN AVERAGE OF 2" DEPTH.

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 Professional Design Firm No. 284-006516



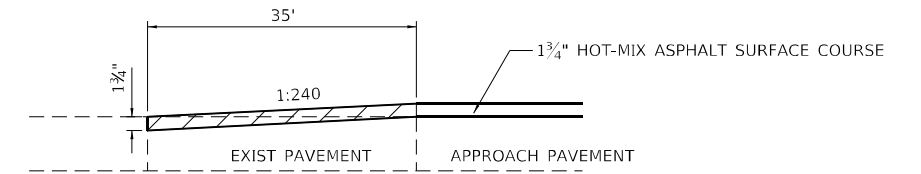
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	DATE - 06/22/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

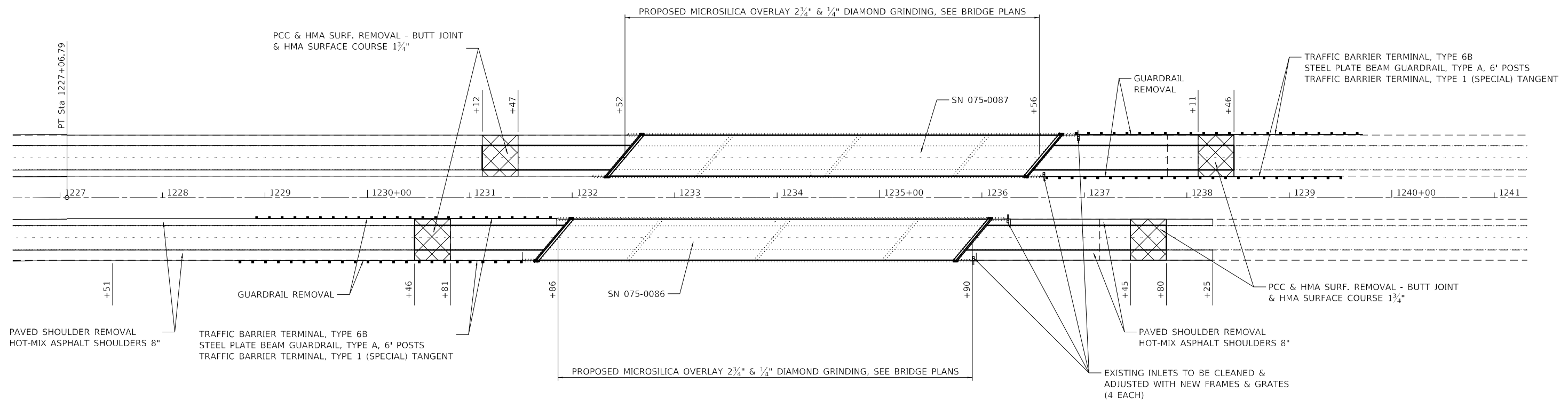
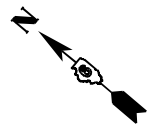
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<b>SN 075-084 SN 075-085</b>			
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	13
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3,4)) BDR, BRR, BJR, BP



**HOT-MIX ASPHALT SURFACE REMOVAL BUTT-JOINT DETAIL**



NOTE:  
 PROPOSED HMA BINDER TO BE PLACED AT STRUCTURE APPROACHES AND DEPARTURES TO FILL IN DIPS. CONTRACTOR SHALL STRINGLINE 100' OFF OF THE STRUCTURE ABUTMENTS. HMA BINDER QUANTITY WAS ESTIMATED USING AN AVERAGE OF 2" DEPTH.

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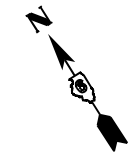
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	DATE - 06/22/2022	REVISED -

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

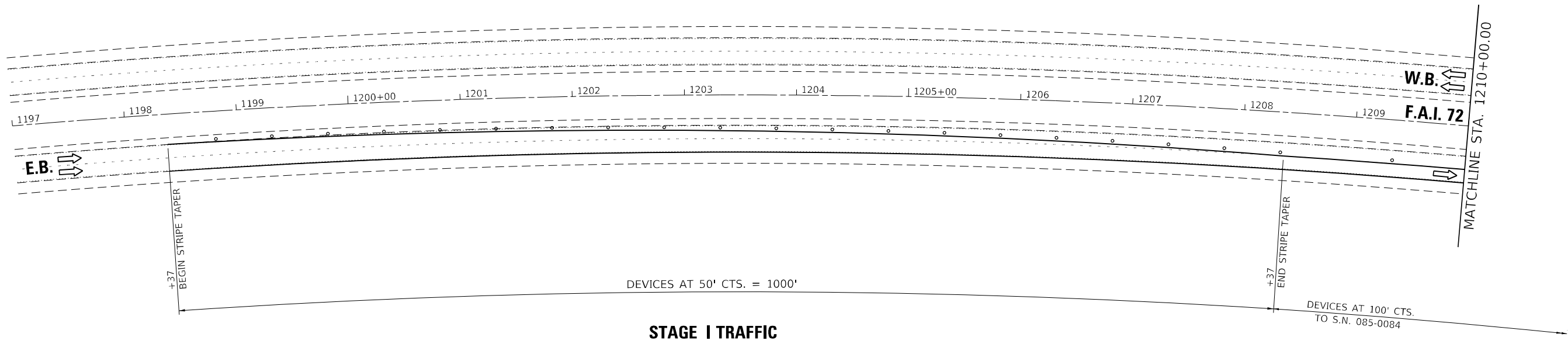
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<b>SN 075-0086 &amp; SN 075-0087</b>			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	14
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

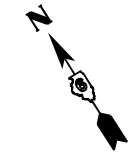
\* (75-1B-(3.4)) BDR, BRR, BJR, BP



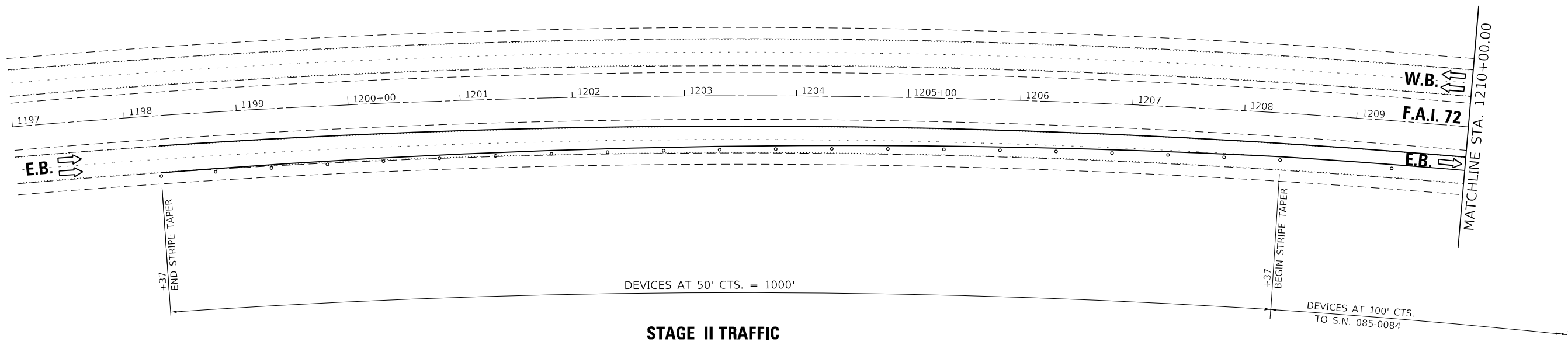
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 PI STA. = 1210+60.67  
 $\Delta = 25^\circ 06' 20''$  (RT)  
 D = 0° 45' 00"  
 R = 7,638.13'  
 T = 1,700.72'  
 L = 3,346.84'  
 E = 187.05'  
 e = —  
 T.R. = —  
 S.E. RUN = —  
 P.C. STA. = 1193+59.95  
 P.T. STA. = 1227+06.79



**STAGE I TRAFFIC**



EXIST. CURVE 550  
 PI STA. = 1210+60.67  
 $\Delta = 25^\circ 06' 20''$  (RT)  
 D = 0° 45' 00"  
 R = 7,638.13'  
 T = 1,700.72'  
 L = 3,346.84'  
 E = 187.05'  
 e = —  
 T.R. = —  
 S.E. RUN = —  
 P.C. STA. = 1193+59.95  
 P.T. STA. = 1227+06.79



**STAGE II TRAFFIC**

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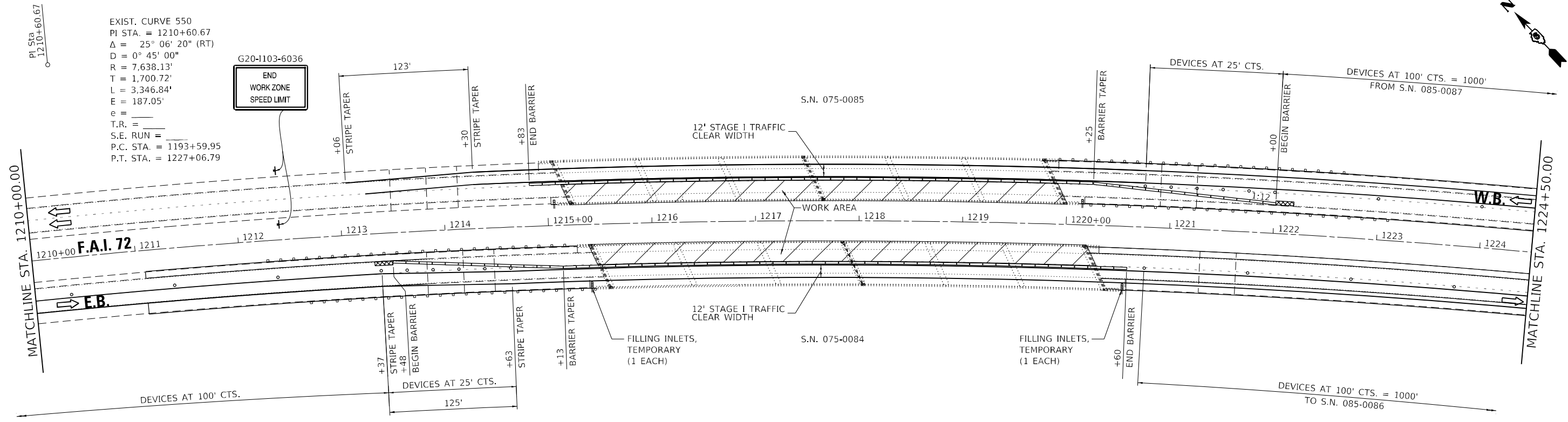
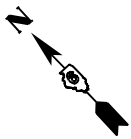
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION TRAFFIC CONTROL PLAN SPECIAL**

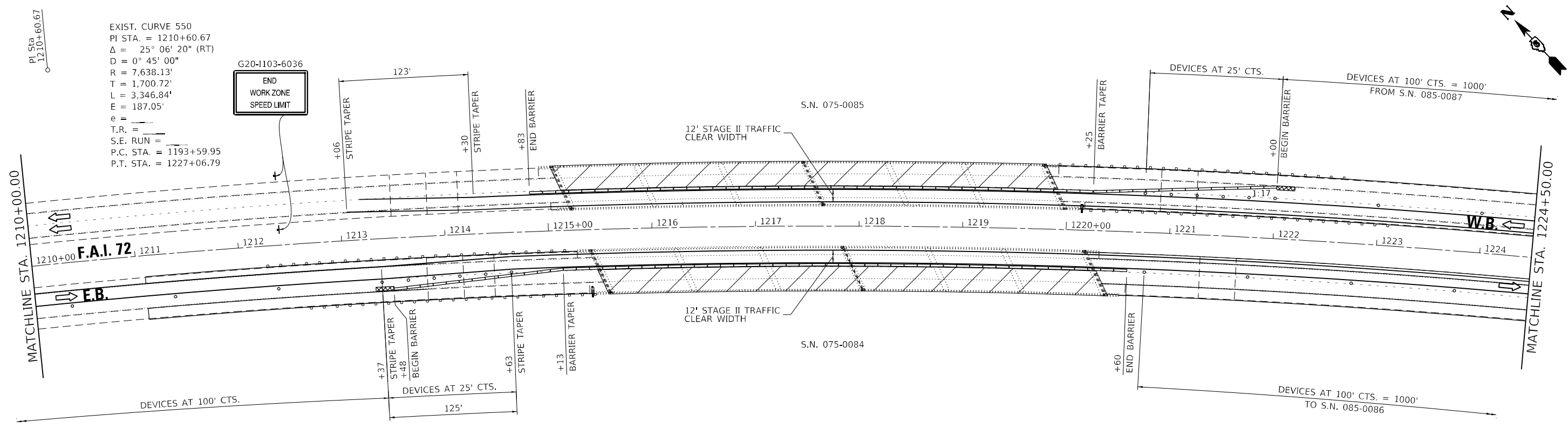
SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	15
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3.4)) BDR, BRR, BJR, BP



**STAGE I TRAFFIC**



**STAGE II TRAFFIC**

EXIST. CURVE 550  
 PI STA. = 1210+60.67  
 $\Delta = 25^\circ 06' 20''$  (RT)  
 $D = 0^\circ 45' 00''$   
 $R = 7,638.13'$   
 $T = 1,700.72'$   
 $L = 3,346.84'$   
 $E = 187.05'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 1193+59.95$   
 $P.T. STA. = 1227+06.79$

EXIST. CURVE 550  
 PI STA. = 1210+60.67  
 $\Delta = 25^\circ 06' 20''$  (RT)  
 $D = 0^\circ 45' 00''$   
 $R = 7,638.13'$   
 $T = 1,700.72'$   
 $L = 3,346.84'$   
 $E = 187.05'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 1193+59.95$   
 $P.T. STA. = 1227+06.79$

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

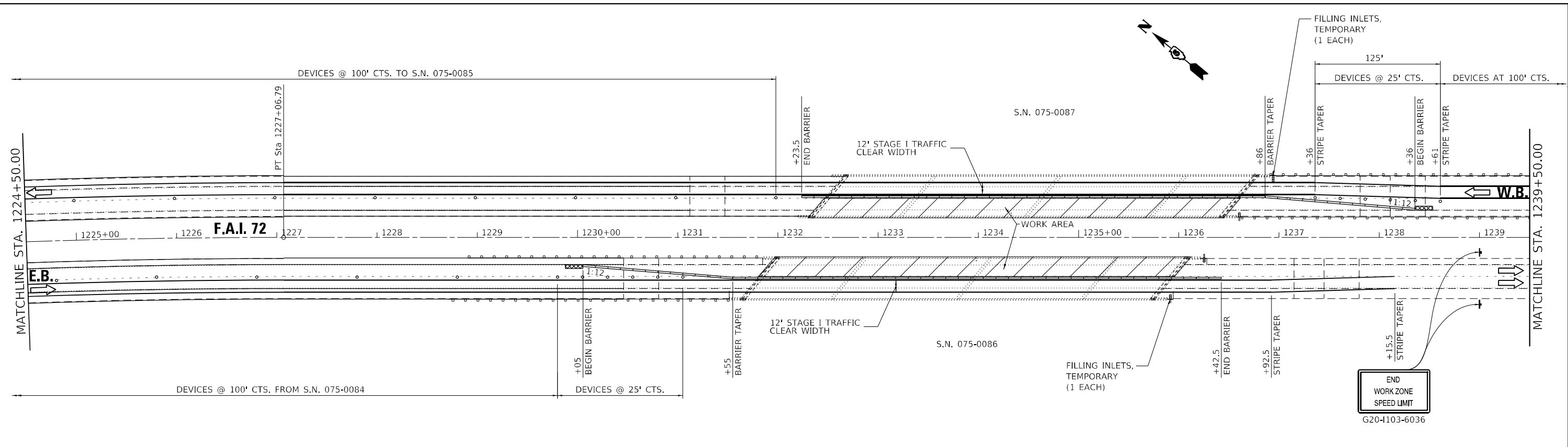
**STAGE CONSTRUCTION TRAFFIC CONTROL PLAN SPECIAL**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

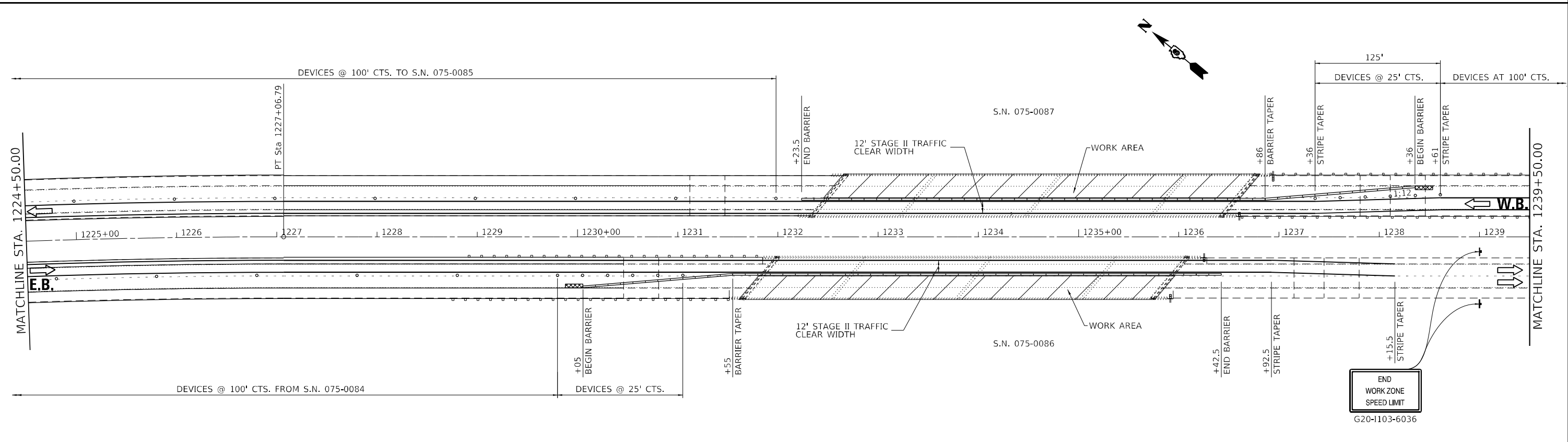
F.A.I. RTE. 72	SECTION *	COUNTY PIKE	TOTAL SHEETS 49	SHEET NO. 16
CONTRACT NO. 72N49			ILLINOIS FED. AID PROJECT	

\* (75-1B-(3.4)) BDR, BRR, BJR, BP





**STAGE I TRAFFIC**



**STAGE II TRAFFIC**

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	DATE - 06/22/2022	REVISED -

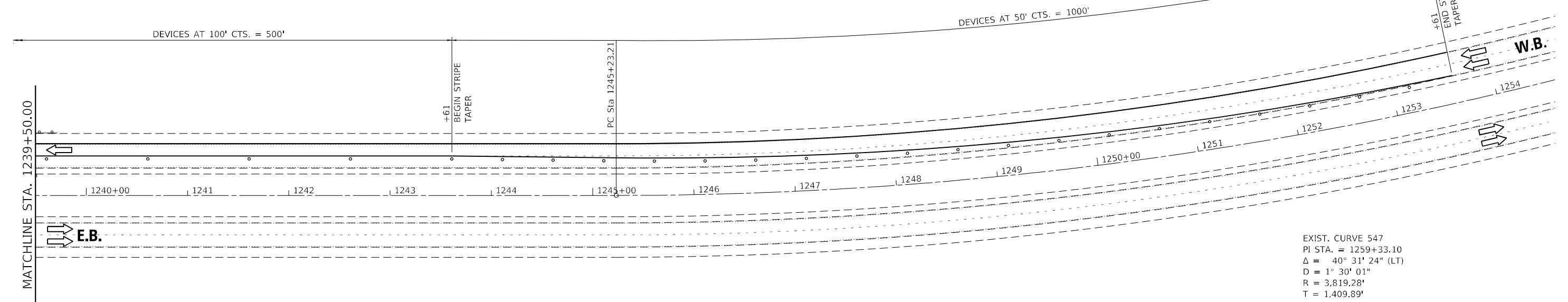
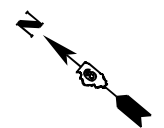
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION TRAFFIC CONTROL PLAN SPECIAL**

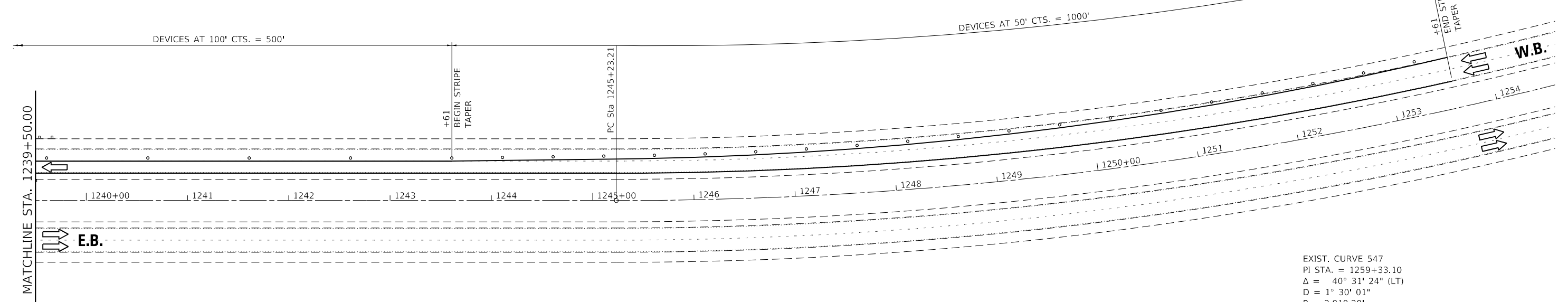
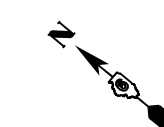
SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE. 72	SECTION *	COUNTY PIKE	TOTAL SHEETS 49	SHEET NO. 17
CONTRACT NO. 72N49			ILLINOIS FED. AID PROJECT	

\* (75-1B-(3.4)) BDR, BRR, BJR, BP



EXIST. CURVE 547  
 PI STA. = 1259+33.10  
 $\Delta = 40^\circ 31' 24''$  (LT)  
 $D = 1^\circ 30' 01''$   
 $R = 3,819.28'$   
 $T = 1,409.89'$   
 $L = 2,701.24'$   
 $E = 251.92'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 1245+23.21$   
 $P.T. STA. = 1272+24.45$



EXIST. CURVE 547  
 PI STA. = 1259+33.10  
 $\Delta = 40^\circ 31' 24''$  (LT)  
 $D = 1^\circ 30' 01''$   
 $R = 3,819.28'$   
 $T = 1,409.89'$   
 $L = 2,701.24'$   
 $E = 251.92'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 1245+23.21$   
 $P.T. STA. = 1272+24.45$

\* (75-1B-(3.4)) BDR, BRR, BJR, BP

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PLOT DATE = 8/24/2022	CHECKED - MJT	REVISED -
	DATE - 06/22/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION TRAFFIC CONTROL PLAN SPECIAL**

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKIE	49	18
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

478'-11 1/4" (W.B.) bk. to bk. abut. @ C of roadway

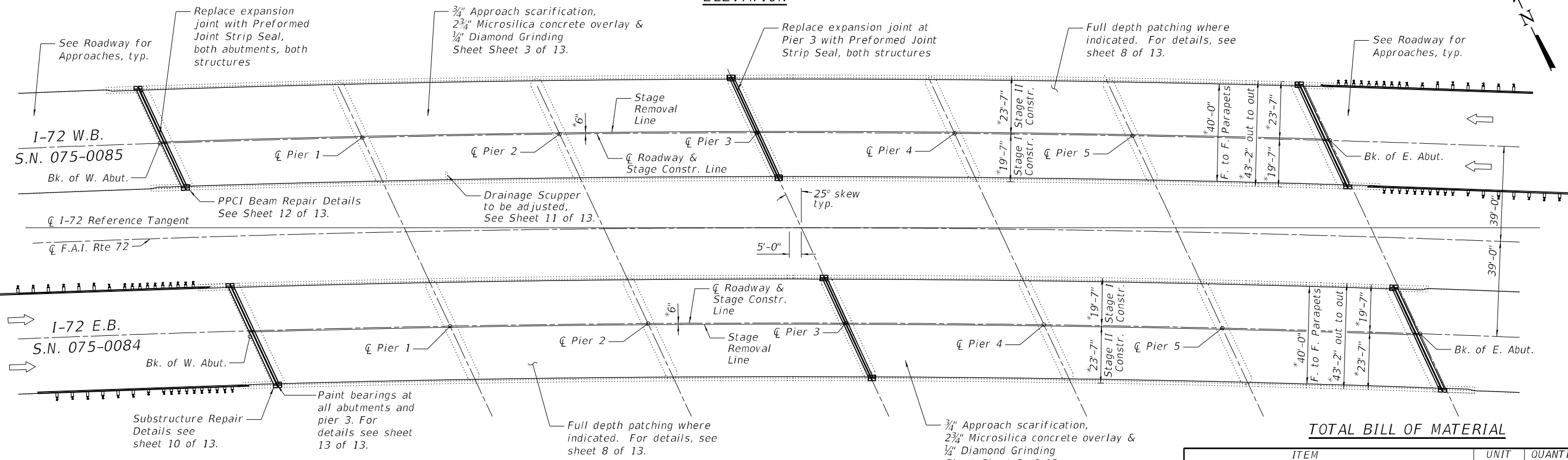
480'-1" (E.B.) parallel to reference tangent

Proposed Traffic Barrier Terminal, Type 6B Std. 631033, typ.

Proposed Traffic Barrier Terminal, Type 6B Std. 631033, typ.

48" PPCI-Beam

**ELEVATION**



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Containment and Disposal of Non-Lead Paint Cleaning Residues Bridge No. 1	L. Sum	1
Containment and Disposal of Non-Lead Paint Cleaning Residues Bridge No. 2	L. Sum	1
Acrylic Coating	Sq. Yd.	7.4
Fiber Wrap	Sq. Ft.	74
Drainage Scupper Adjustment	Each	1
** Protective Coat	Sq. Yd.	4276
Concrete Removal	Cu. Yd.	22.6
Concrete Superstructure	Cu. Yd.	25.6
Reinforcement Bars, Epoxy Coated	Pound	4180
Bar Splicers	Each	40
Preformed Joint Strip Seal	Foot	278
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	2560
Cleaning and Painting Steel Bridge No. 1	L. Sum	1
Cleaning and Painting Steel Bridge No. 2	L. Sum	1
Bridge Deck Scarification, 3/4"	Sq. Yd.	4248
Bridge Deck Microsilica Concrete Overlay, 2 3/4"	Sq. Yd.	4248
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq. Ft.	96
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	3
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1
Diamond Grinding (Bridge Section)	Sq. Yd.	4266
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	22

\*\*On new deck surface only

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Areas of deck slab repair and concrete curb removal shown are estimated. The Engineer shall show actual locations of deck repairs on As-Built plans.

3/4" Approach Scarification will be paid for as Bridge Deck Scarification, 3/4" in Sq. Yd.

Deck drains that are currently plugged shall remain plugged and have the new overlay cast over the top of them.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

The existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions.

See Special Provisions for "FRP Strengthening for PPC I-Beam Repairs".

See Special Provisions for "Precast Prestressed Concrete I-Beam Repair".

Acrylic coating shall be placed over Fiber Wrap repairs. Two coats shall be applied.

**PLAN**

\*Radial dimension

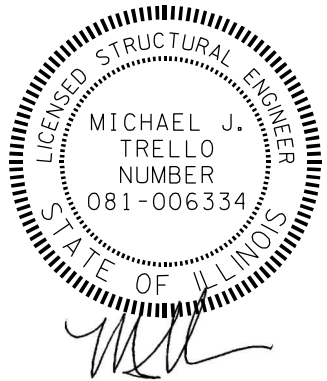
**PAINT NOTES**

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All bearings shall be cleaned per Near White Blast Cleaning (SSPC-SP10). (NOTE: This is only the bearings for PPCI Beams.)

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) shall be painted according to the requirements of Organic Zinc-Rich Epoxy/Urethane. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.

Containment of cleaning residue is required to control nuisance dust. See special provisions.

SSPC QP1 Certification is required for this Contract.



Date: August 25, 2022  
Expires: November 30, 2022

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**KUHN & TRELLO**  
CONSULTING ENGINEERS  
A Limited Liability Company  
109 N. 7th Street, 3rd Floor  
Springfield, IL 62702  
Phone: 217-618-0244

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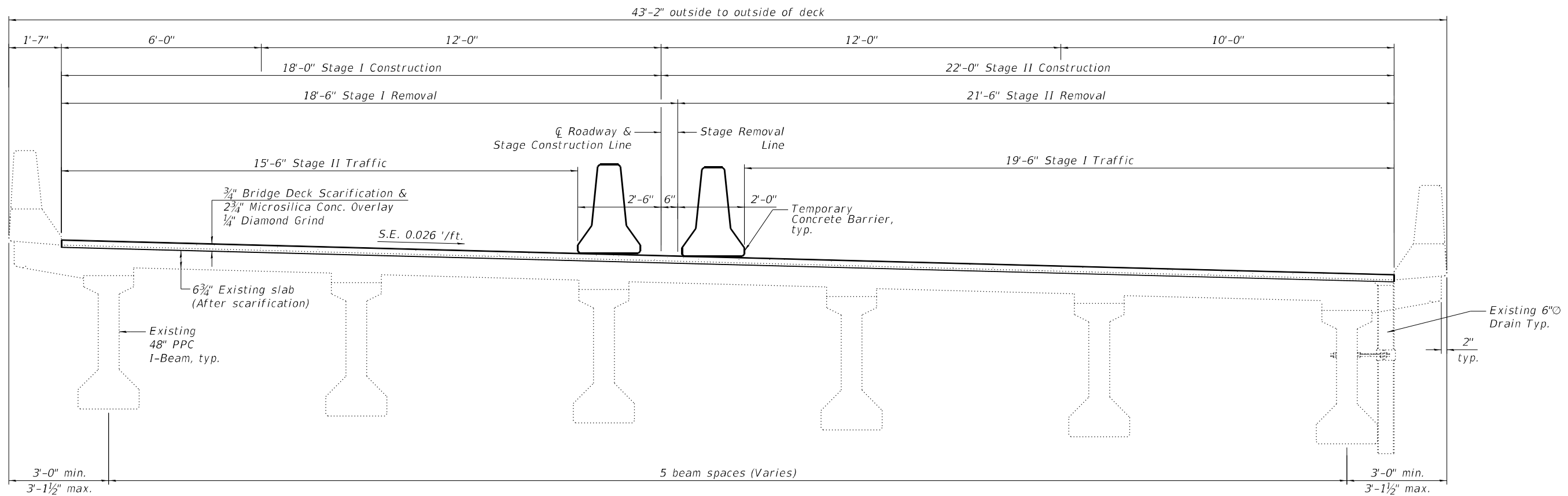
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NO. 075-0084 & 075-0085**

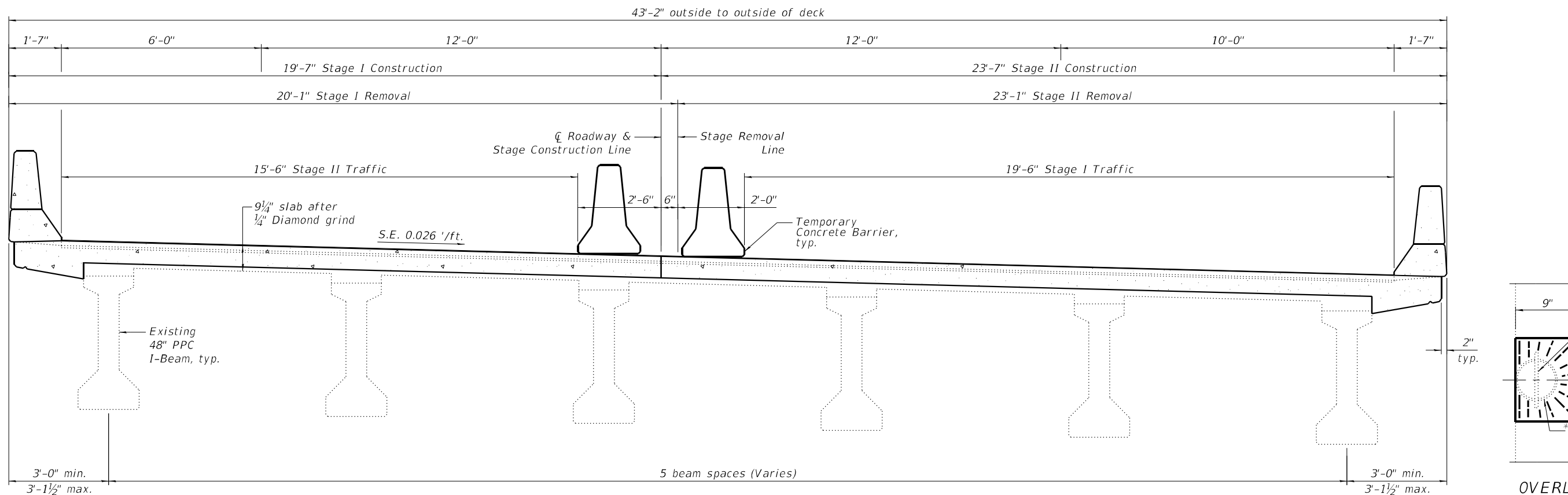
SHEET 1 OF 13 SHEETS

FAI RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	19
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\*(75-1B-(3,4)) BDR, BRR, BJR, BP



**CROSS SECTION AT MID SPANS**  
Looking East - E.B. Bridge



**CROSS SECTION AT JOINT REPLACEMENT LOCATIONS**  
Looking East - E.B. Bridge

**OVERLAY TREATMENT AT DRAINS**

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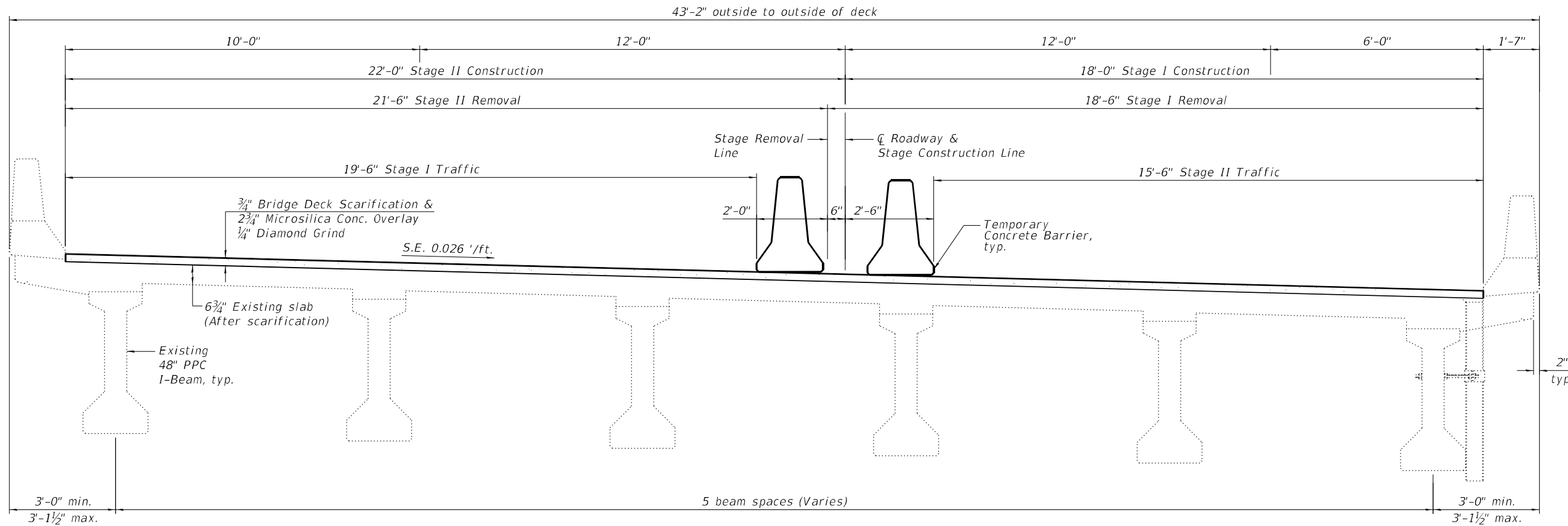
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

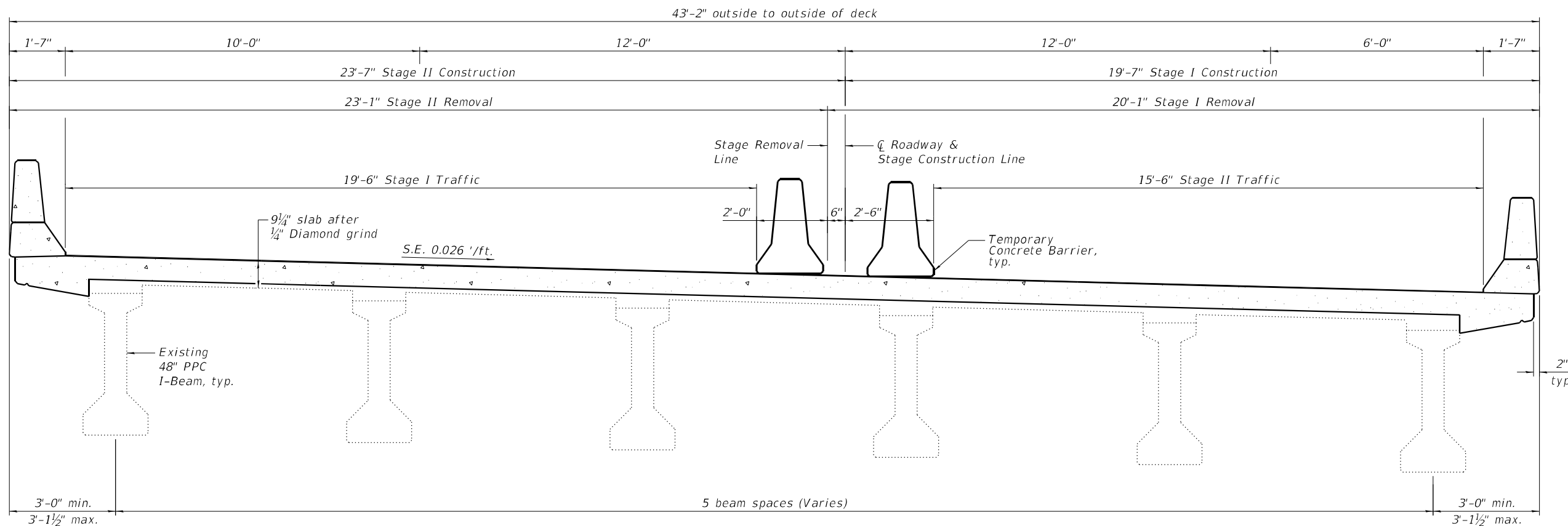
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**STRUCTURE NO. 075-0084**

SHEET 2 OF 13 SHEETS

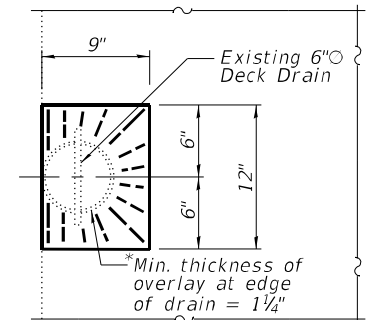
FAI RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75) BDR, BJR	PKE	49	20
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				



**CROSS SECTION AT MID SPANS**  
Looking East - W.B. Bridge



**CROSS SECTION AT JOINT REPLACEMENT LOCATIONS**  
Looking East - W.B. Bridge



**OVERLAY TREATMENT AT DRAINS**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGING DETAILS & CROSS SECTION  
STRUCTURE NO. 075-0085**

SHEET 3 OF 13 SHEETS

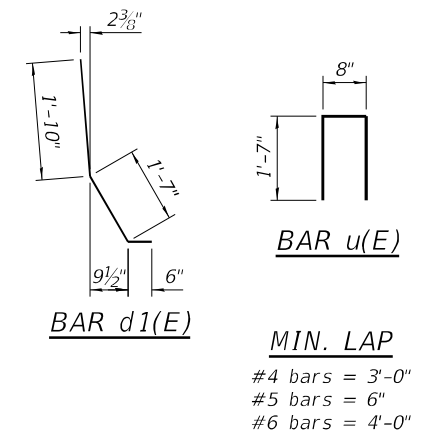
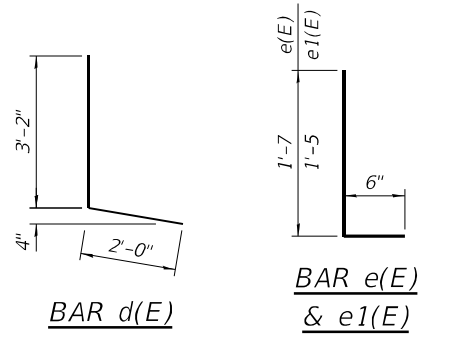
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72	(75) BDR, BJR	PKE	49	21
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

Notes:  
 West Abutments similar, each structure.  
 East Abutments similar, each structure.  
 See Staging Cross-Section, each bridge.

B.S. Both Structures  
 E.F. Each Face  
 W.A. West Abutment  
 E.A. East Abutment

\* Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

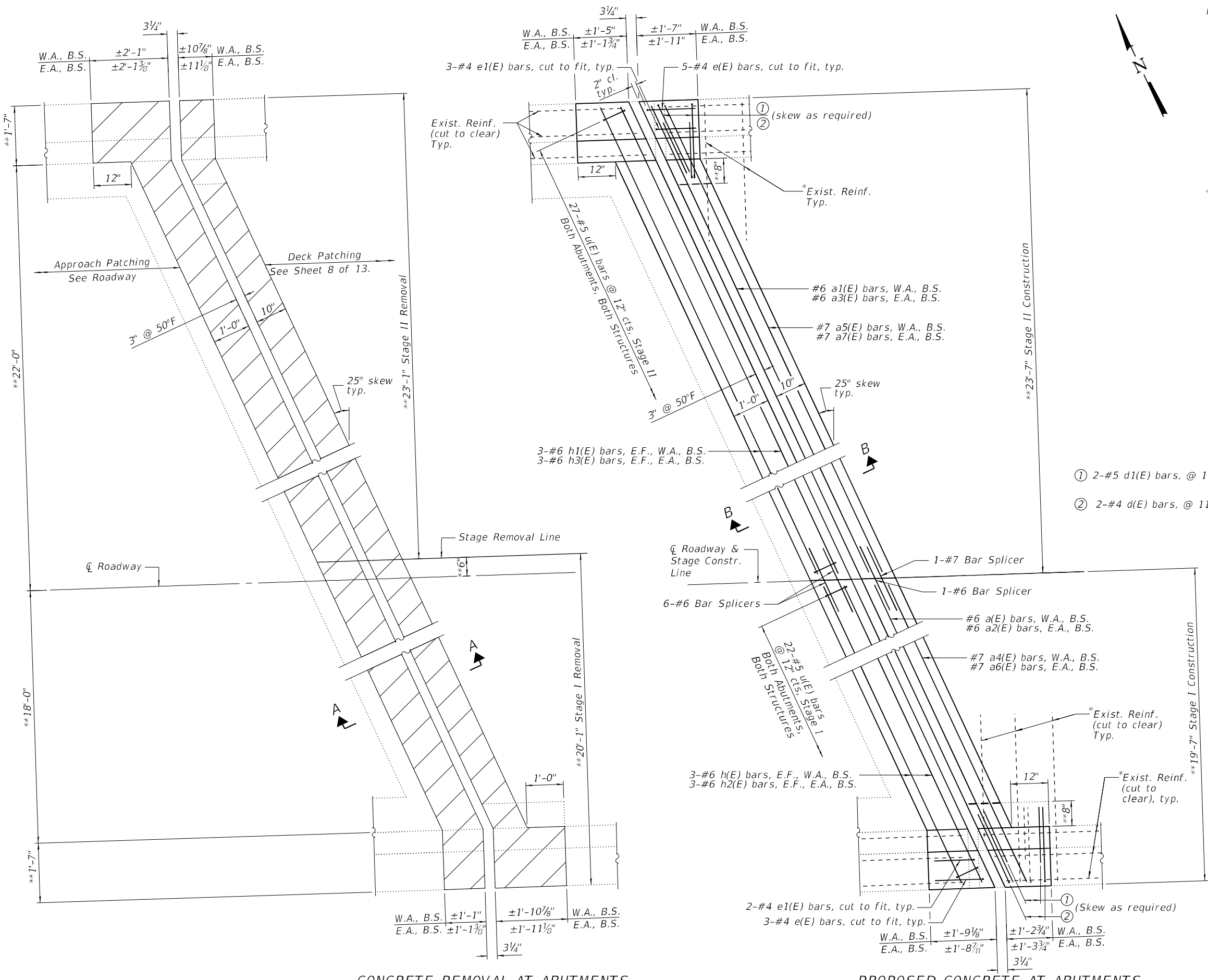
\*\* Radial dimension



**BILL OF MATERIAL  
 FOUR ABUTMENTS**

Bar	No.	Size	Length	Shape
a(E)	2	#6	20'-10"	—
a1(E)	2	#6	25'-2"	—
a2(E)	2	#6	21'-5"	—
a3(E)	2	#6	25'-11"	—
a4(E)	2	#7	20'-10"	—
a5(E)	2	#7	25'-2"	—
a6(E)	2	#7	21'-5"	—
a7(E)	2	#7	25'-11"	—
d(E)	16	#4	5'-2"	L
d1(E)	16	#5	3'-11"	L
e(E)	32	#4	2'-1"	U
e1(E)	20	#4	1'-11"	U
h(E)	12	#6	20'-10"	—
h1(E)	12	#6	25'-2"	—
h2(E)	12	#6	21'-5"	—
h3(E)	12	#6	25'-11"	—
u(E)	196	#5	3'-10"	U
Concrete Removal			Cu. Yd.	18.1
Concrete Superstructure			Cu. Yd.	20.2
Reinforcement Bars, Epoxy Coated			Pound	3320
Bar Splicers			Each	32

(Sheet 1 of 3)



CONCRETE REMOVAL AT ABUTMENTS

PROPOSED CONCRETE AT ABUTMENTS

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL & REPLACEMENT DETAILS AT ABUTMENTS  
 STRUCTURE NO. 075-0084 & 075-0085

SHEET 4 OF 13 SHEETS

FAI RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75) BDR, BJR	PIKE	49	22
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

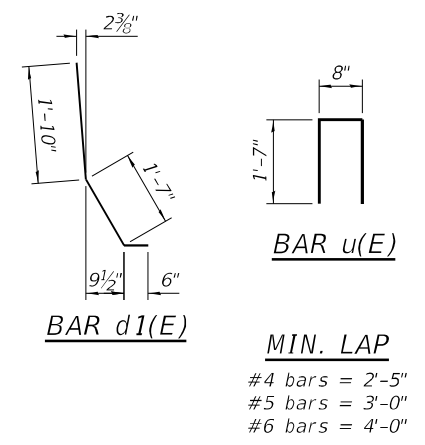
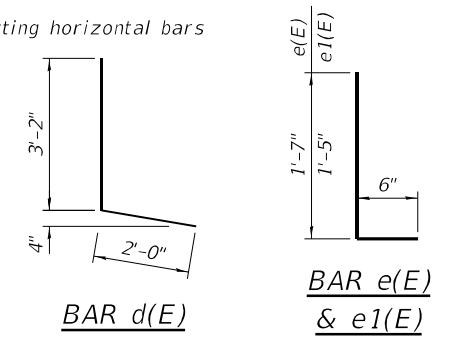
Notes:  
 Pier 3 similar, each structure.  
 See Staging Cross-Section, each bridge.

B.S. Both Structures  
 E.F. Each Face  
 E.S. Each Side of Pier 3 Joint  
 I.F. Inside Face  
 O.F. Outside Face

\*Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

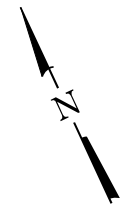
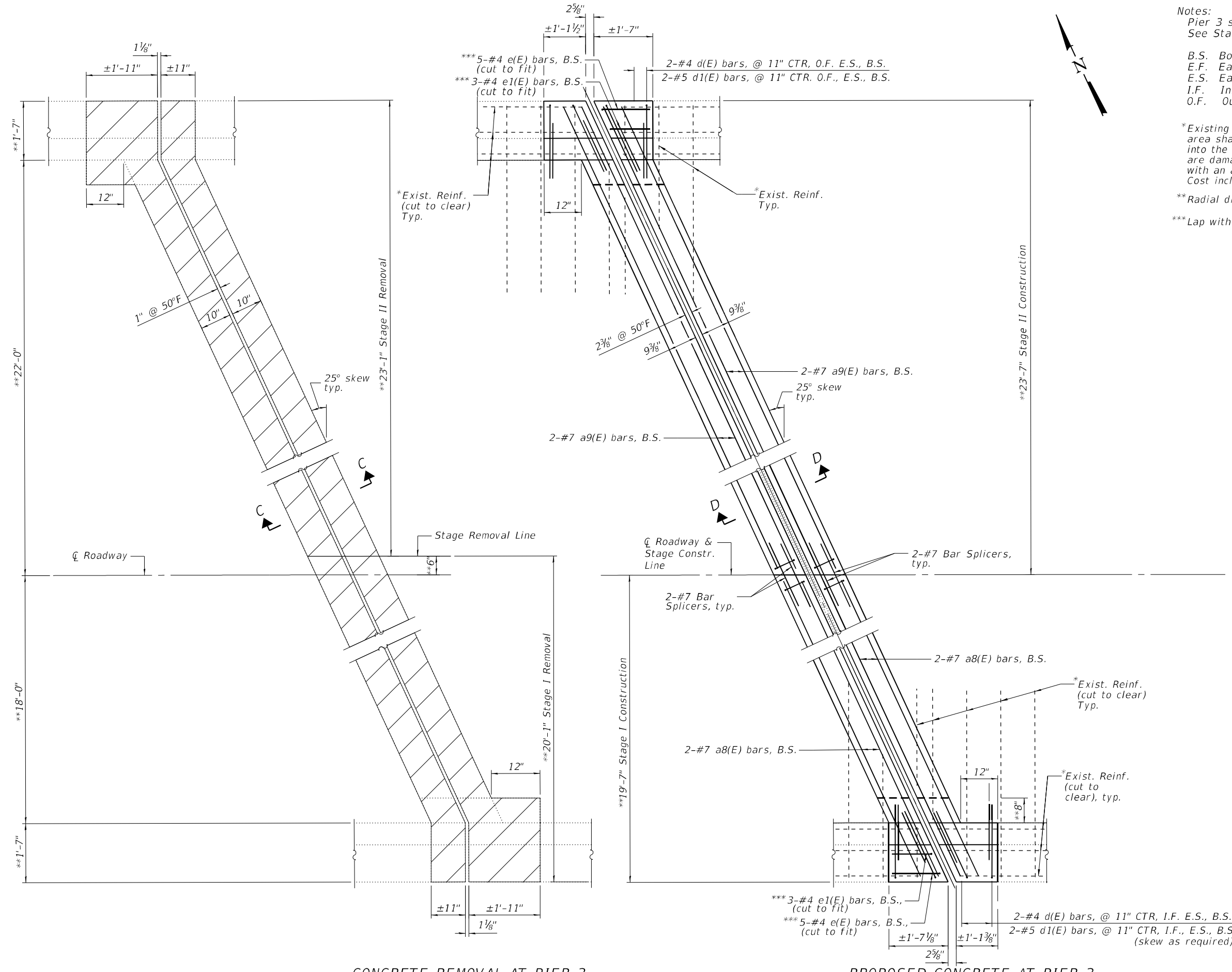
\*\*Radial dimension

\*\*\*Lap with existing horizontal bars



**BILL OF MATERIAL  
 PIER 3 AT BOTH STRUCTURES**

Bar	No.	Size	Length	Shape
a8(E)	8	#7	21'-2"	—
a9(E)	8	#7	25'-6"	—
d(E)	8	#4	5'-2"	L
d1(E)	8	#5	3'-11"	L
e(E)	20	#4	2'-1"	L
e1(E)	12	#4	1'-11"	L
Concrete Removal		Cu. Yd.	4.5	
Concrete Superstructure		Cu. Yd.	5.4	
Reinforcement Bars, Epoxy Coated		Pound	860	
Bar Splicers		Each	8	



CONCRETE REMOVAL AT PIER 3

PROPOSED CONCRETE AT PIER 3

(Sheet 2 of 3)

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

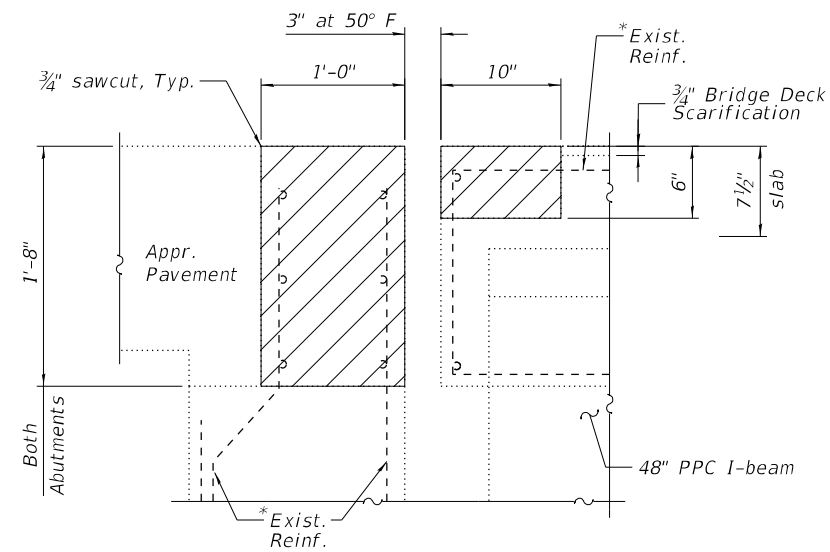
**JOINT REMOVAL & REPLACEMENT DETAILS AT PIER 3  
 STRUCTURE NO. 075-0084 & 075-0085**

SHEET 5 OF 13 SHEETS

FAI RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	23
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

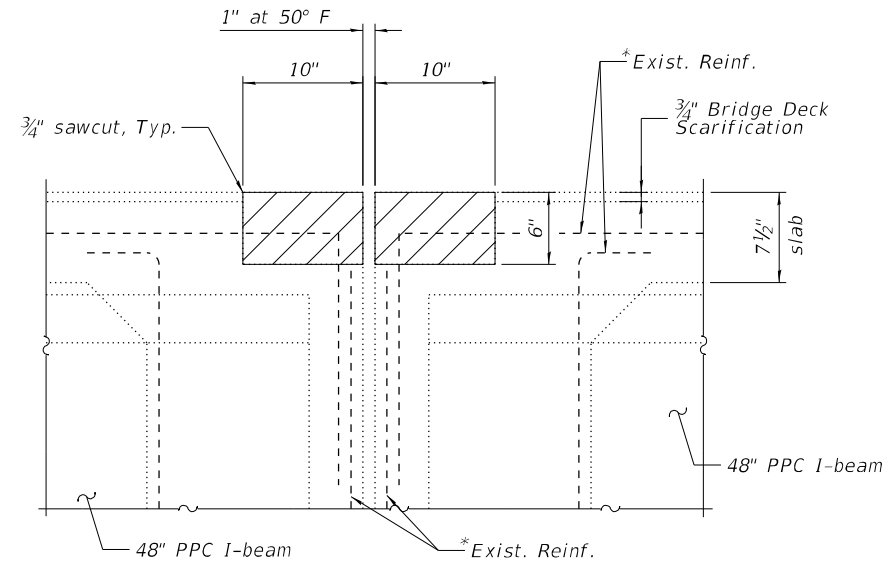
(75-1B-(3,4)) BDR, BRR, BJR, BP

Notes:  
 Cross Hatched areas indicate  
 Concrete Removal. Cost of  
 replacement of concrete included  
 with Concrete Superstructure.



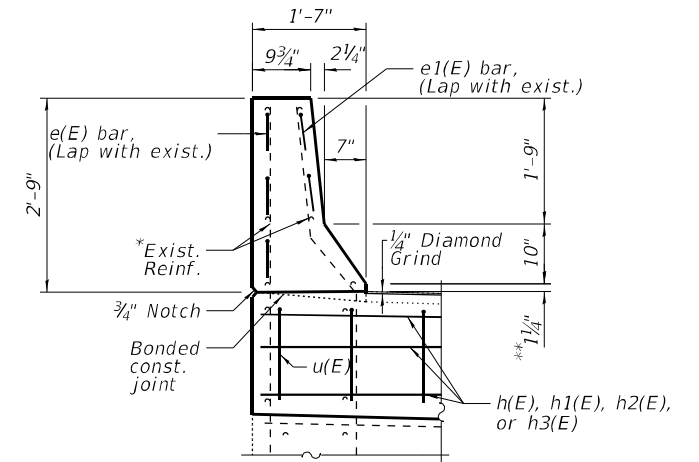
**SECTION A-A**

\* Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.



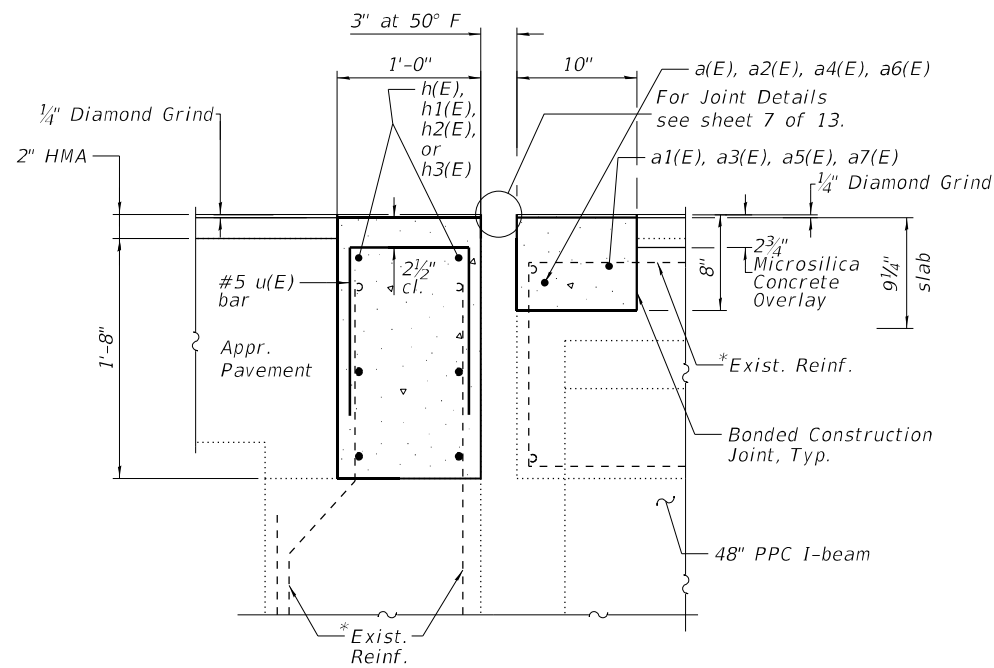
**SECTION C-C**

(Pier 3 only)

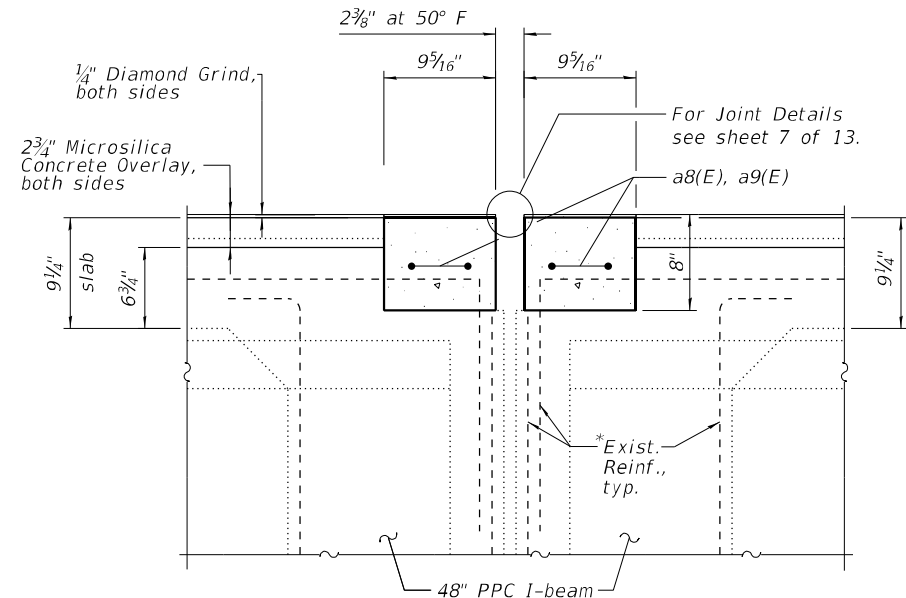


**TYPICAL SECTION AT APPROACH PARAPET**

\*\* After 1/4" Diamond Grinding

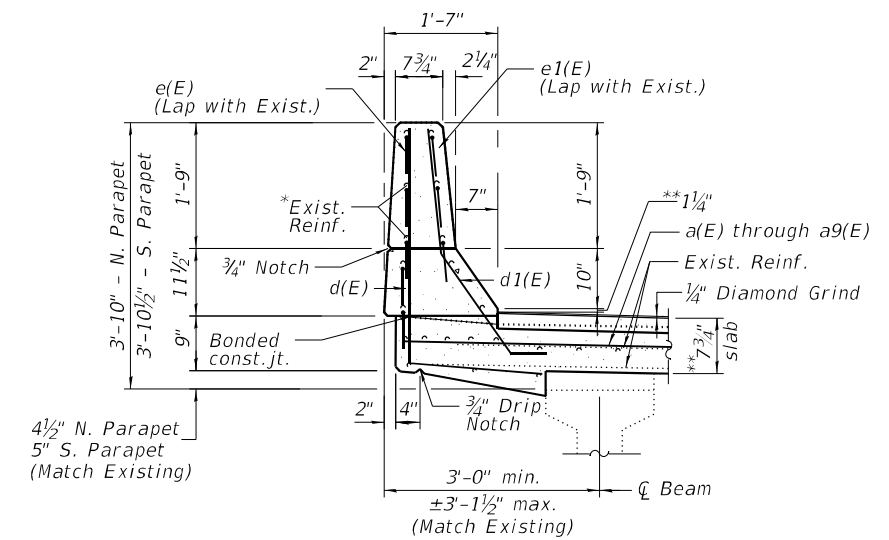


**SECTION B-B**



**SECTION D-D**

(Pier 3 only)



**TYPICAL SECTION THRU BRIDGE PARAPET**

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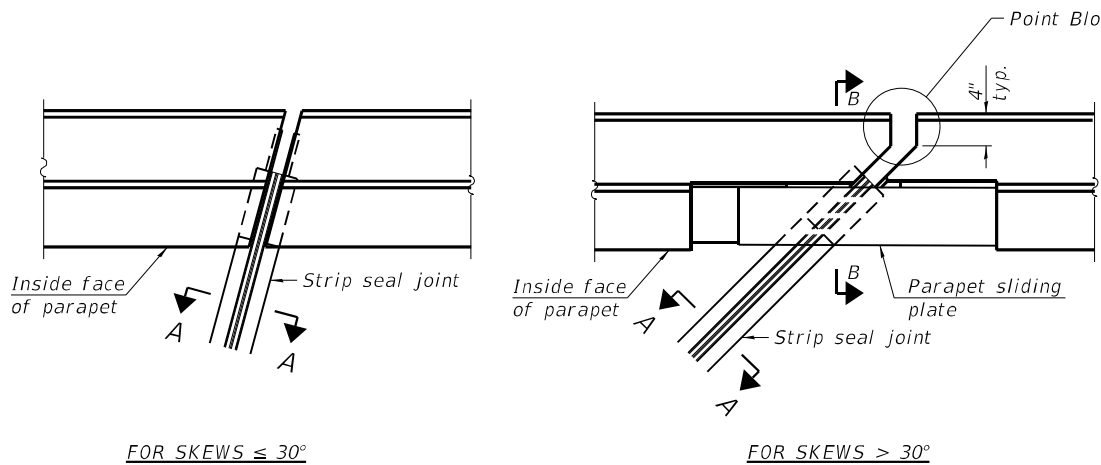
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL & REPLACEMENT DETAILS AT ABUTMENTS  
 STRUCTURE NO. 075-0084 & 075-0085

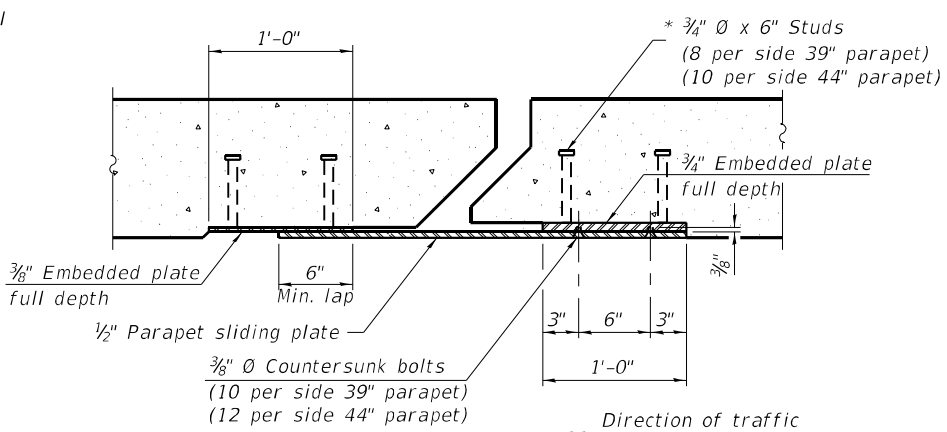
SHEET 6 OF 13 SHEETS

FAI RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75) BDR, BJR	PIKE	49	24
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				



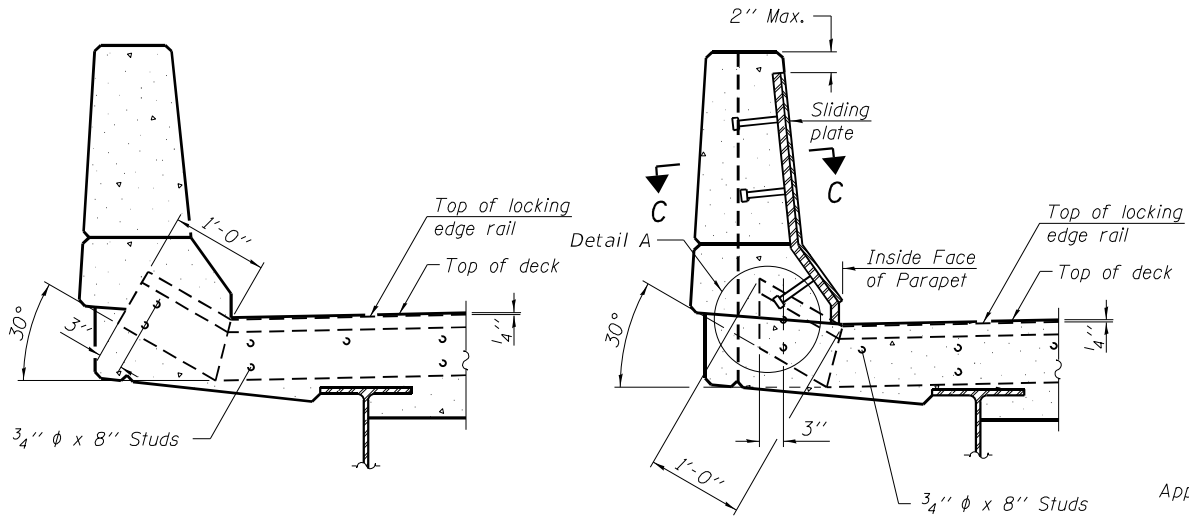


PLAN AT PARAPET



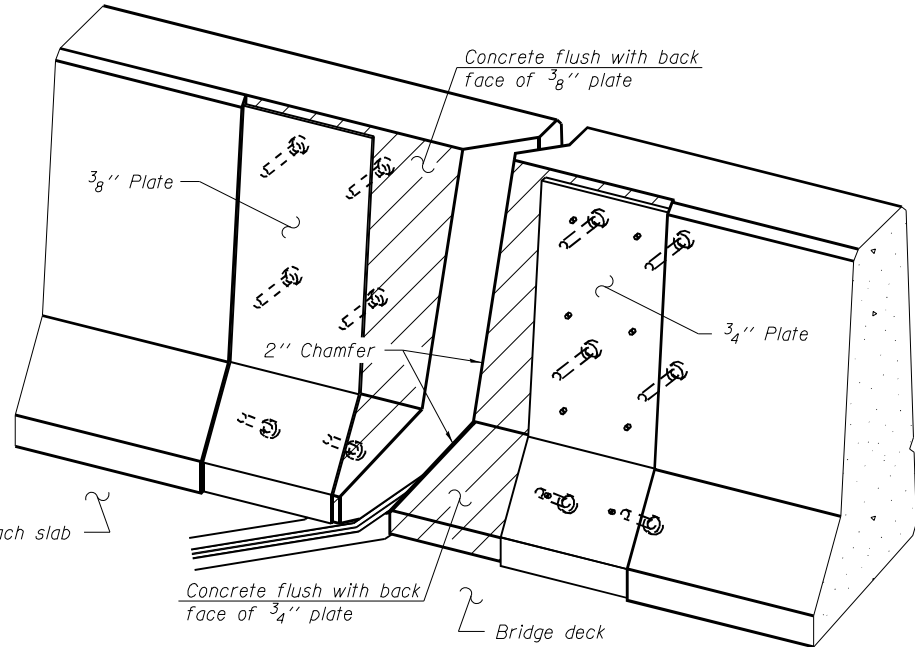
SECTION C-C

Notes:  
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4 inch. The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2 inch maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.  
 The manufacturer's recommended installation methods shall be followed.



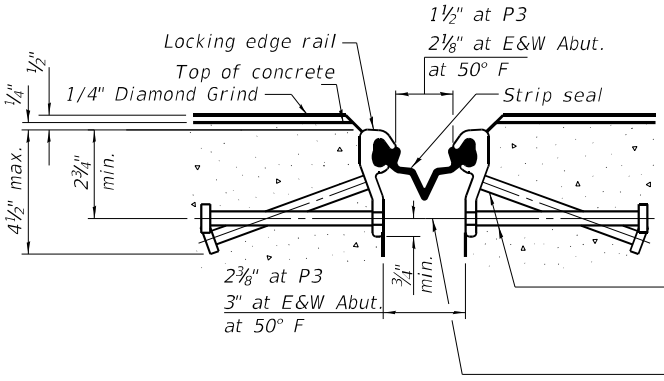
DETAIL A

SECTION B-B



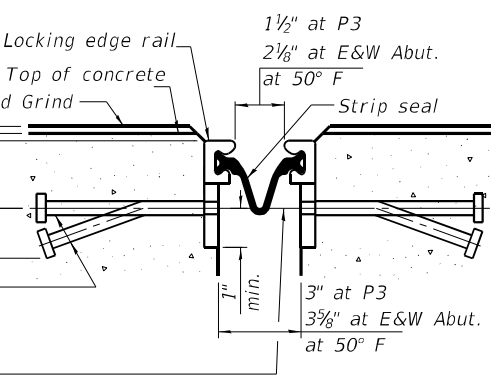
TRIMETRIC VIEW (Showing back plates only)

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.  
 The Maximum space between locking edge rail segments shall be 3/16 inch and sealed with a suitable sealant; however, any rail joint within 10 feet measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.  
 Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.  
 39 inch constant slope barrier shown, 44 inch constant slope barrier similar as noted.  
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

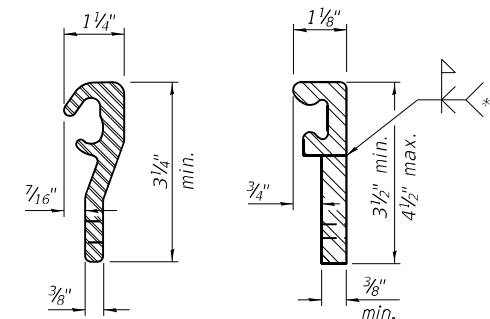


SHOWING ROLLED RAIL JOINT

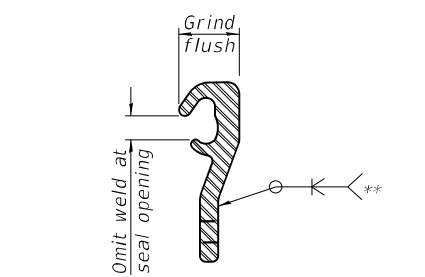
\* 3/8 inch diameter x 6 inch studs @ 6 inch centers (alternate angled/bent studs with horizontal studs)  
 3/8 inch diameter threaded rods in 7/16 inch diameter holes at +/- 4 inch centers for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS  
 \*\* Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE  
 The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	278

SECTION A-A  
 \* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

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 Professional Design Firm No. 284-005516

EJ-SS 1-1-2020

<b>KUHN &amp; TRELLO</b> CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62702 Phone: 217-416-0244	USER NAME =	DESIGNED - SPN	REVISED -
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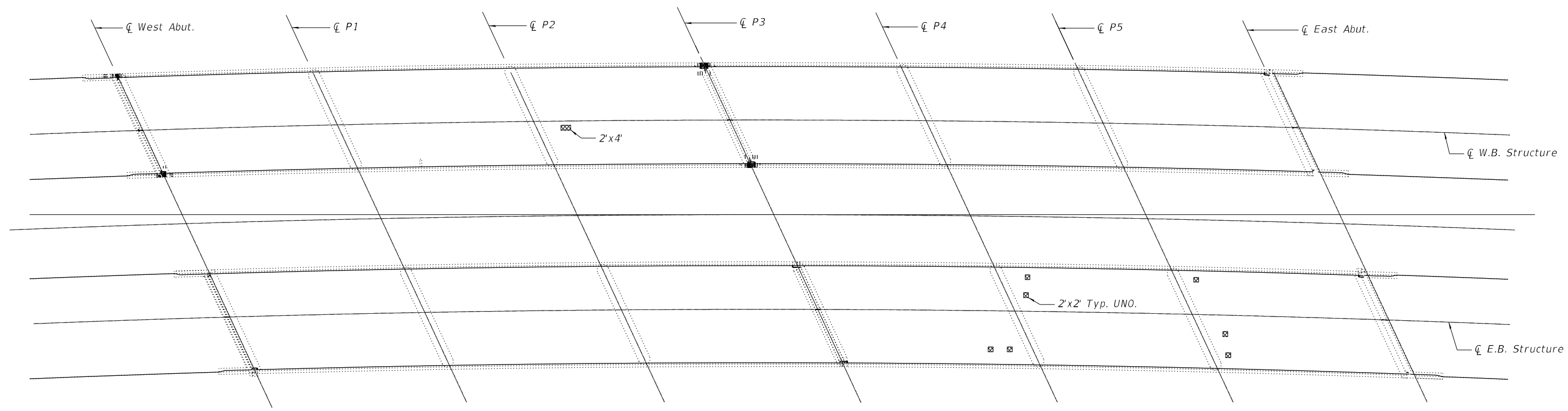
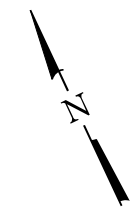
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL  
 STRUCTURE NO. 075-0084 & 075-0085

SHEET 7 OF 13 SHEETS

FAI RTR.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKE	49	25
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

(75-1B-(3,4)) BDR, BRR, BJR, BP



**DECK PATCHING REPAIR PLAN**

Deck Slab Repair (Full Depth, Type I or II)

**SUPERSTRUCTURE  
BILL OF MATERIAL**

Item	Unit	Total
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	3
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1

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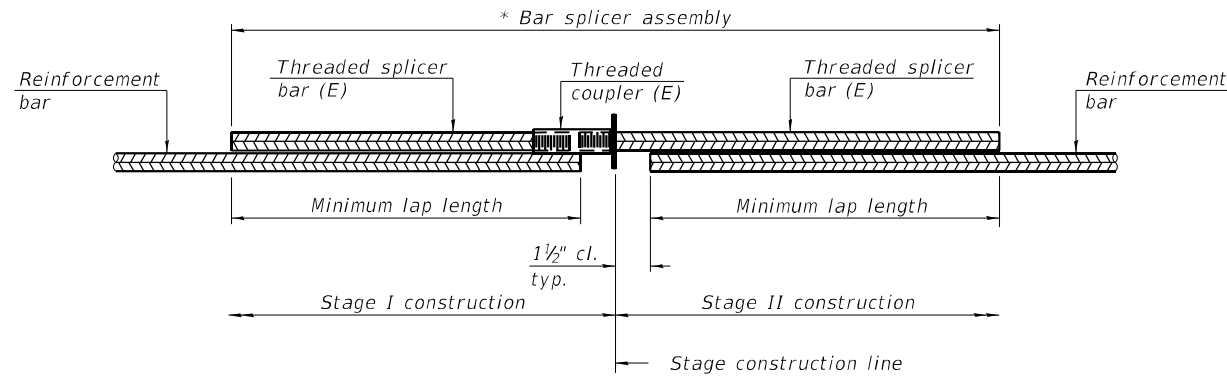
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DECK SLAB REPAIR DETAILS  
STRUCTURE NO. 075-0084 & 075-0085**

SHEET 8 OF 13 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	26
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3,4)) BDR, BRR, BJR, BP

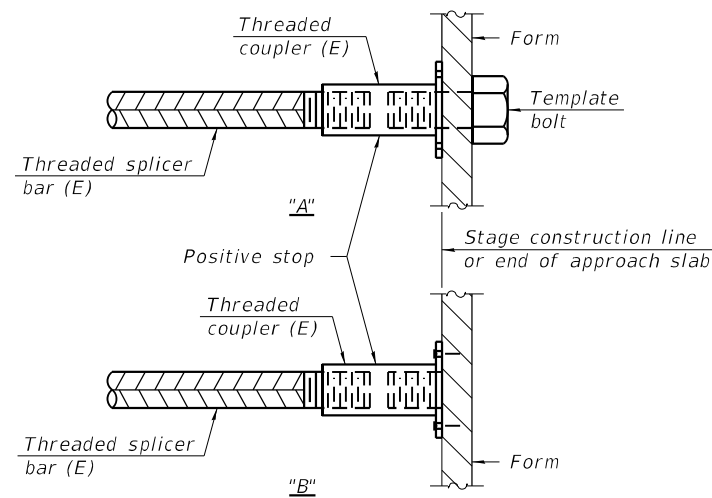


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

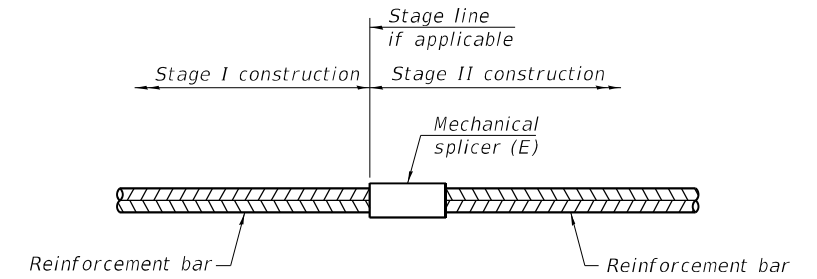
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bridge Deck W. Abut. E.B.	#6	1	4'-0"
Bridge Deck W. Abut. E.B.	#7	1	4'-8"
Bridge Deck E. Abut. E.B.	#6	1	4'-0"
Bridge Deck E. Abut. E.B.	#7	1	4'-8"
Bridge Deck Pier 3 E.B.	#7	4	4'-8"
Hatch Block W. Abut. E.B.	#6	6	4'-0"
Hatch Block E. Abut. E.B.	#6	6	4'-0"
Bridge Deck W. Abut. W.B.	#6	1	4'-0"
Bridge Deck W. Abut. W.B.	#7	1	4'-8"
Bridge Deck E. Abut. W.B.	#6	1	4'-0"
Bridge Deck E. Abut. W.B.	#7	1	4'-8"
Bridge Deck Pier 3 W.B.	#7	4	4'-8"
Hatch Block W. Abut. W.B.	#6	6	4'-0"
Hatch Block E. Abut. W.B.	#6	6	4'-0"



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

Notes:  
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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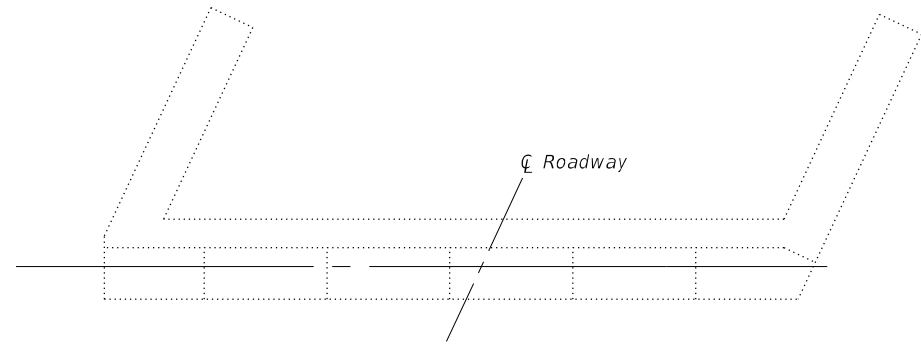
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 075-0084 & 075-0085

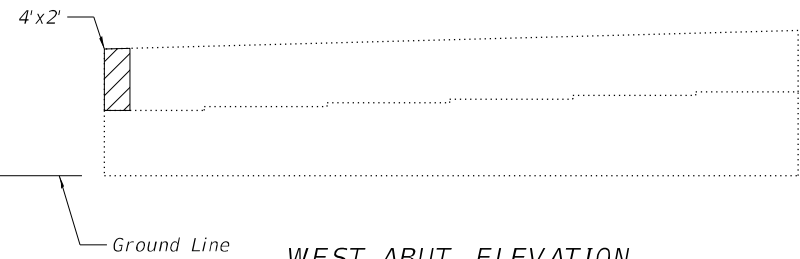
SHEET 9 OF 13 SHEETS

FAI RFE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKE	49	27
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

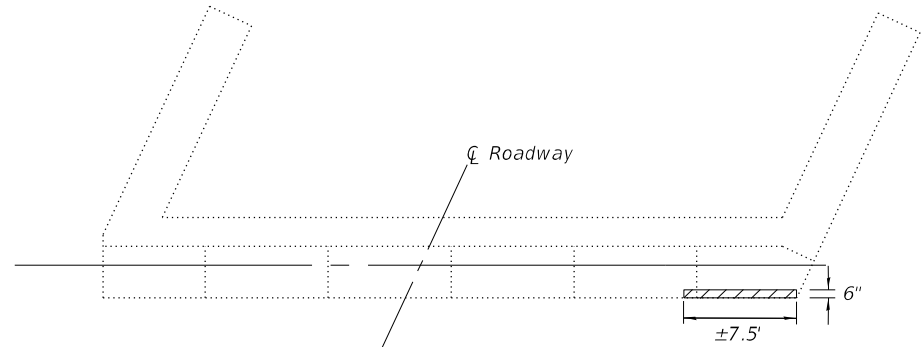
\* (75-1B-(3,4)) BDR, BRR, BJR, BP



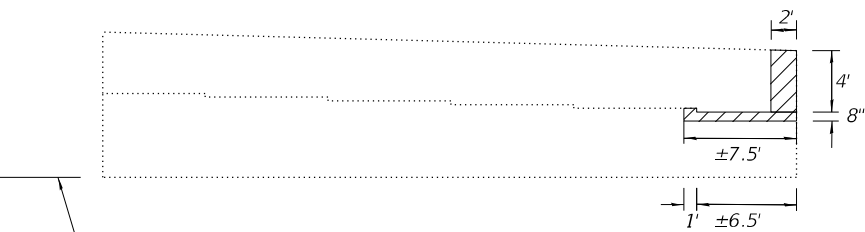
**WEST ABUT. PLAN**



**WEST ABUT. ELEVATION**  
(Looking West)

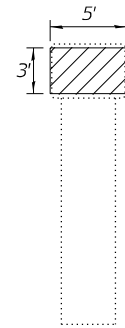


**EAST ABUT. PLAN**



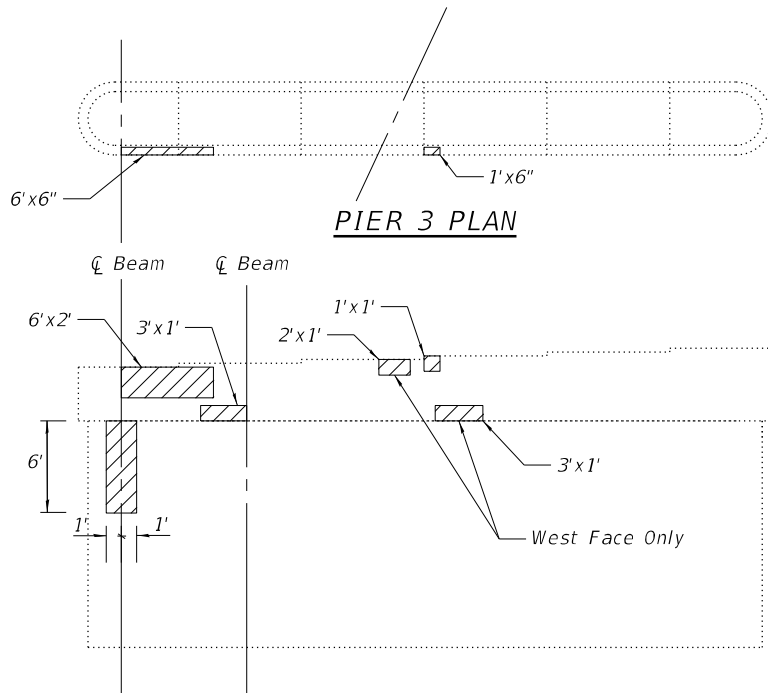
**EAST ABUT. ELEVATION**  
(Looking East)

**SN 075-0084**



**PIER 3 SOUTH ELEVATION**  
(Looking North)

**SN 075-0084**



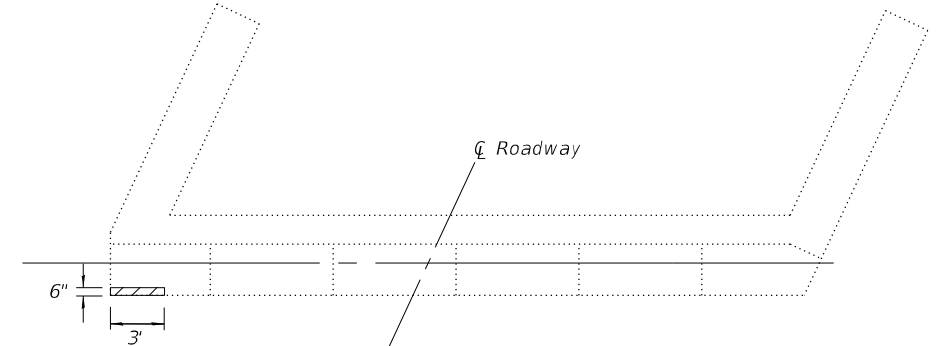
**PIER 3 PLAN**

**PIER 3 ELEVATION**  
(Looking West)

**SN 075-0085**

**SUBSTRUCTURE REPAIR PLAN**

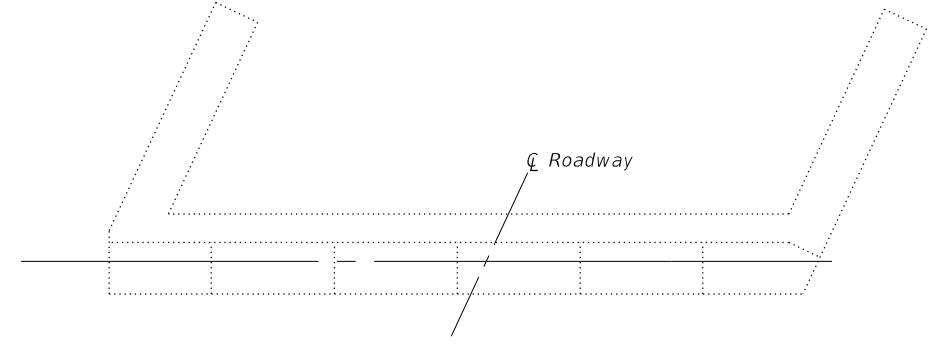
Substructure Repair (Less than 5")



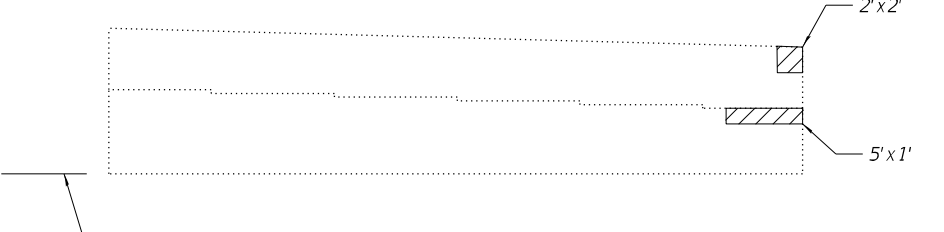
**WEST ABUT. PLAN**



**WEST ABUT. ELEVATION**  
(Looking West)



**EAST ABUT. PLAN**



**EAST ABUT. ELEVATION**  
(Looking East)

**SN 075-0085**

**SUBSTRUCTURE  
BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete < 5"	Sq. Ft.	96

\* (75-1B-(3.4)) BDR, BRR, BJR, BP

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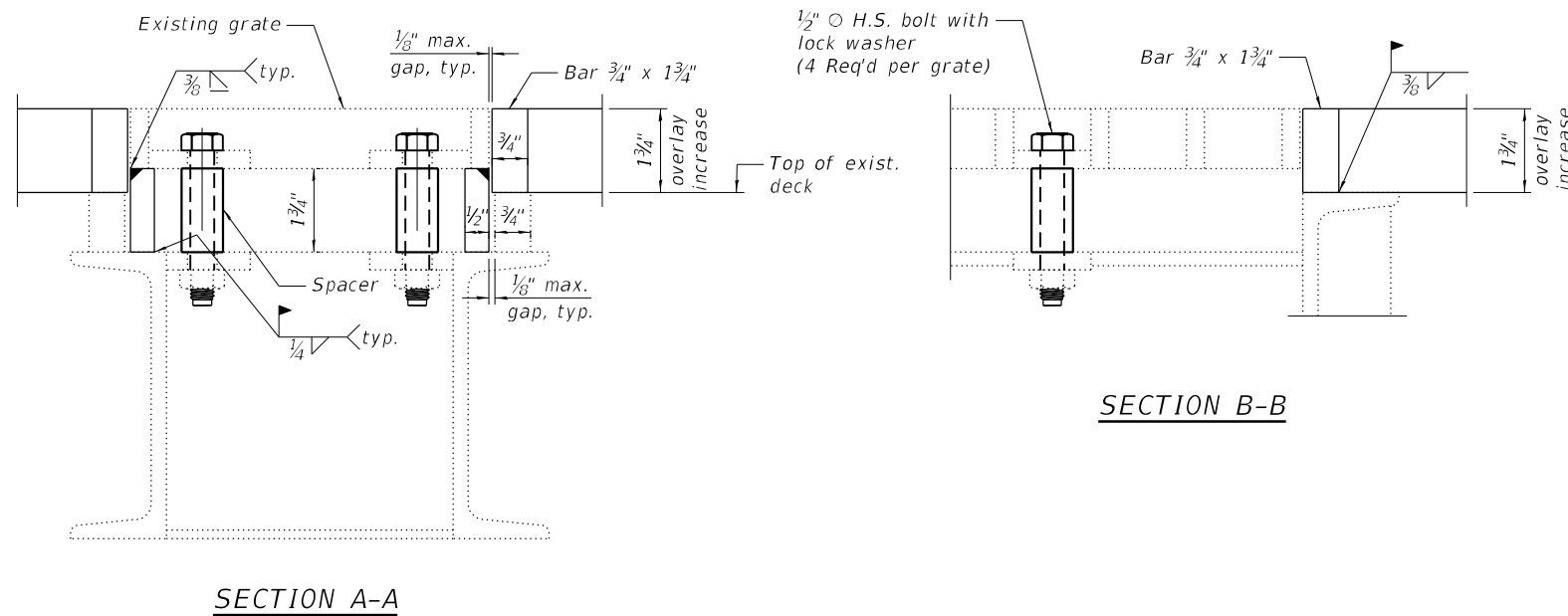
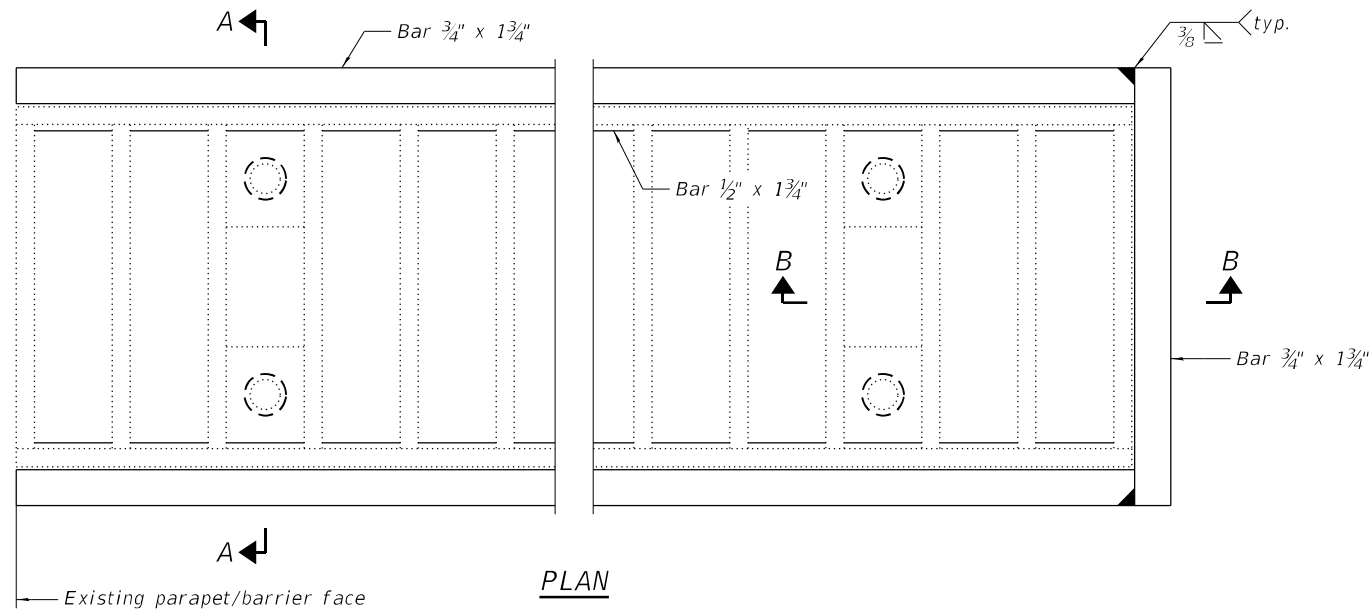
**KT**  
**KUHN & TRELLO**  
CONSULTING ENGINEERS  
A Limited Liability Company  
109 N. 7th Street, 3rd Floor  
Springfield, IL 62702  
Phone: 217-416-0044  
Professional Design Firm No. 284-006516

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIR DETAILS  
STRUCTURE NO. 075-0084 & 075-0085**

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	28
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				



Notes:

1. Existing drainage scupper grates shall be adjusted so that the top of the existing grate is flush with the top of the bridge deck overlay.
2. Proposed structural steel for adjusting the scupper grates shall conform to AASHTO Classification M-270 Gr. 36. All proposed components adjusting the scupper grates shall be hot dipped galvanized.
3. Bolts shall be 1/2" O ASTM F3125 Grade a325 Type 1, mechanically galvanized. Spacer may be fabricated from round steel pipe.
4. The Contractor shall ensure that no damage is done to the existing grates to be reused.
5. Shop plans for the proposed scupper adjustment ring shall be submitted to the Engineer for approval prior to fabrication.
6. See existing scupper plans for details and dimensions not shown. The Contractor shall field verify the type of scupper present and the scupper dimensions.
7. Galvanizing for field welded areas shall be repaired per ASTM A 780.
8. Cost of all labor and materials necessary to remove existing grates, clean existing scuppers and downspouts, furnish and install scupper adjustment ring, and reinstalling the grates is included in the cost per unit each for Drainage Scupper to be Adjusted.
9. Clean existing scuppers and downspouts.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Drainage Scupper to be Adjusted	Each	1

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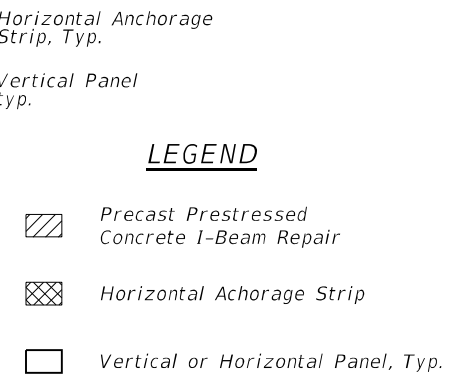
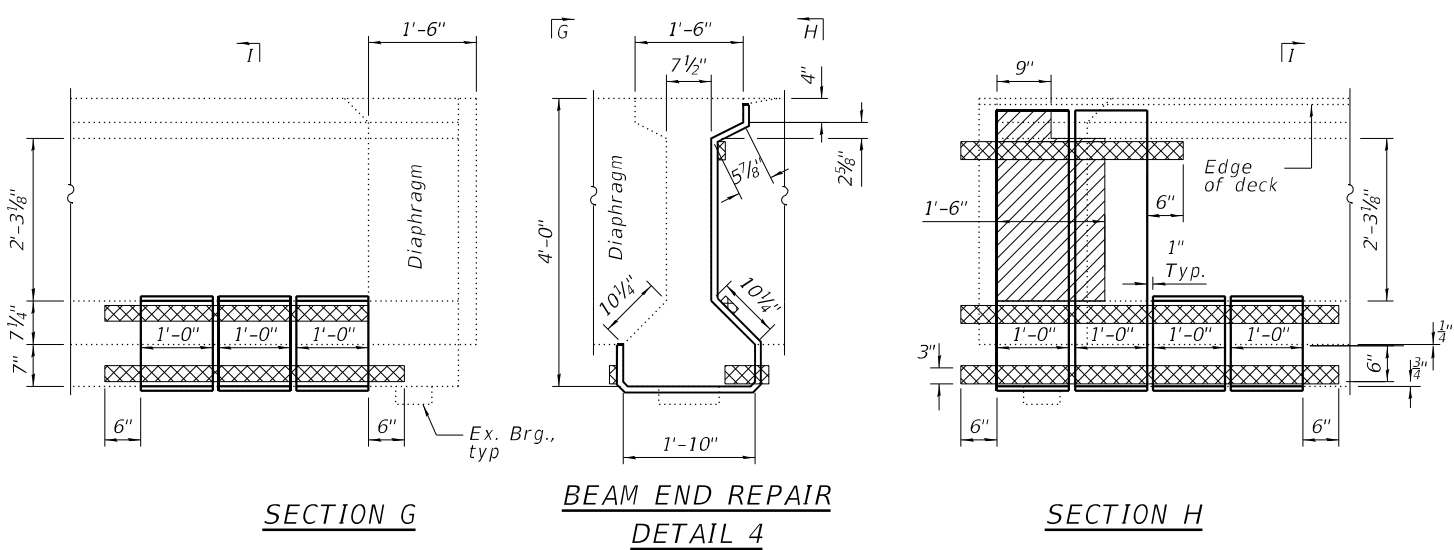
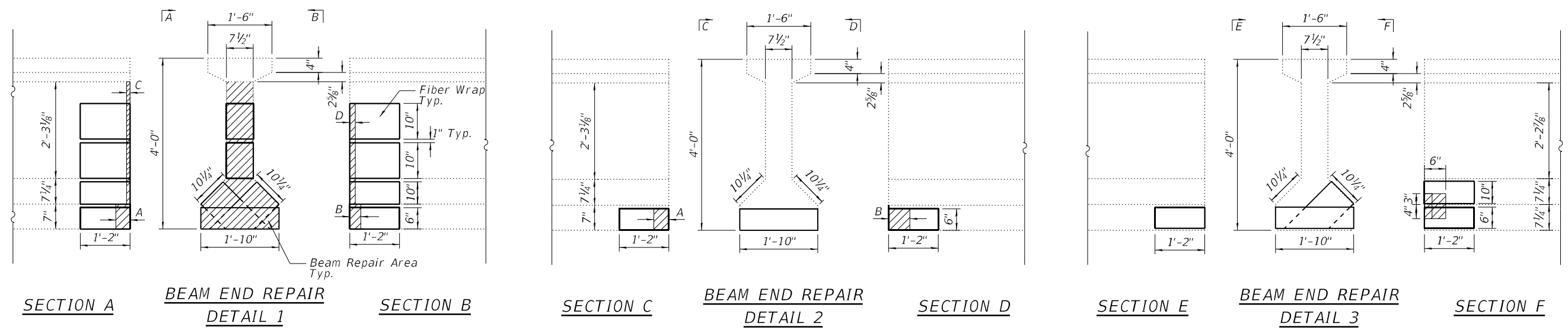
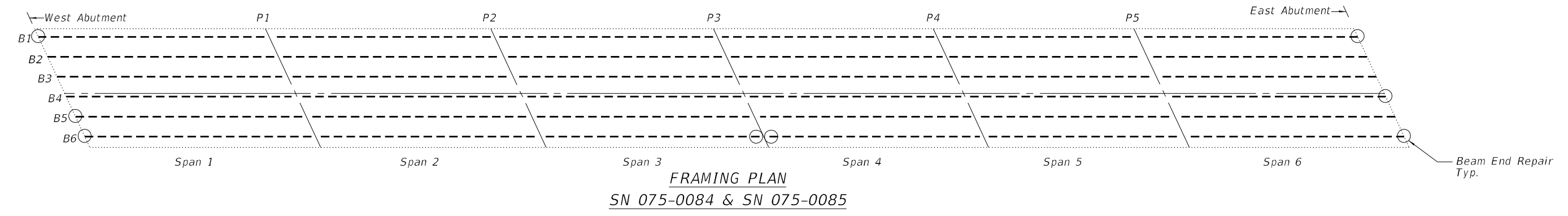
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SCUPPER ADJUSTMENT DETAILS**  
**STRUCTURE NO. 075-0084 & 075-0085**

SHEET 11 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKE	49	29
CONTRACT NO. 72N49				
* (75-1B-(3,4)) BDR, BRR, BJR, BP ILLINOIS FED. AID PROJECT				



**BEAM END REPAIRS**

SN	Abutment/Pier	Beam	A	B	C	D	Detail #
075-0084	W	B1	4"	2"	1"	0"	1
075-0084	W	B6	0"	6"	0"	0"	2
075-0084	E	B1	0"	6"	0"	0"	2
075-0084	E	B6	6"	3"	4"	3"	1
075-0084	P3(SP3)	B6	8"	0"	0"	0"	2
075-0085	W	B5	0"	6"	0"	0"	2
075-0085	W	B6	6"	6"	4"	4"	1
075-0085	E	B6	4"	0"	0"	0"	2
075-0085	P3(SP3)	B6	6"	0"	0"	0"	2
075-0085	E	B4	-	-	-	-	3
075-0085	P3(SP4)	B6	-	-	-	-	4

**BILL OF MATERIAL**

Item	Unit	Total
Fiber Wrap	sq ft	74
Acrylic Coating	sq yd	7.4
Precast Prestressed Concrete I-Beam Repair	sq ft	22

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 KUN & TRELLO CONSULTING ENGINEERS  
 109 N. 7th Street, 3rd Floor  
 Springfield, IL 62702  
 Phone: 217-618-0244

<b>KT</b> Professional Design Firm No. 284-005516	USER NAME =	DESIGNED - SPN	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BEAM REPAIR DETAILS**  
**STRUCTURE NO. 075-0084 & 075-0085**

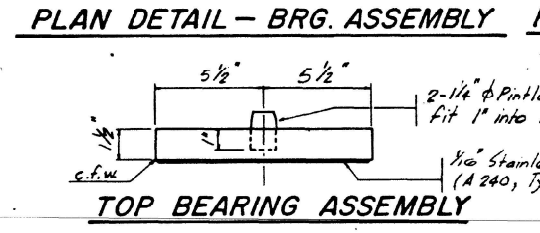
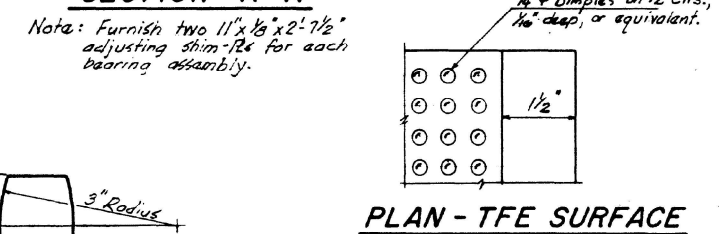
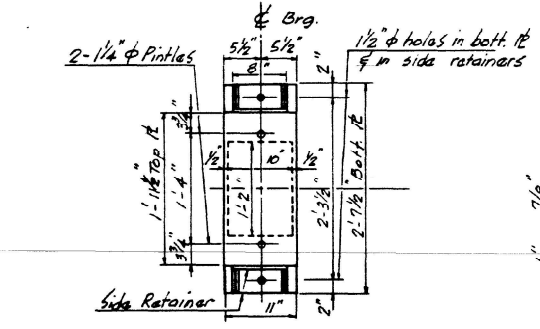
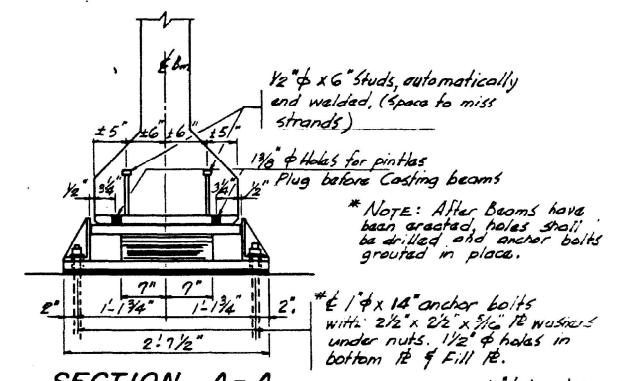
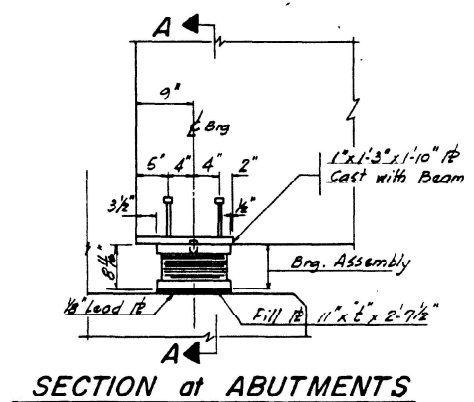
SHEET 12 OF 13 SHEETS

FAI R/E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	30

CONTRACT NO. 72N49  
ILLINOIS FED. AID PROJECT

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
			79	33
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS PROJECT			

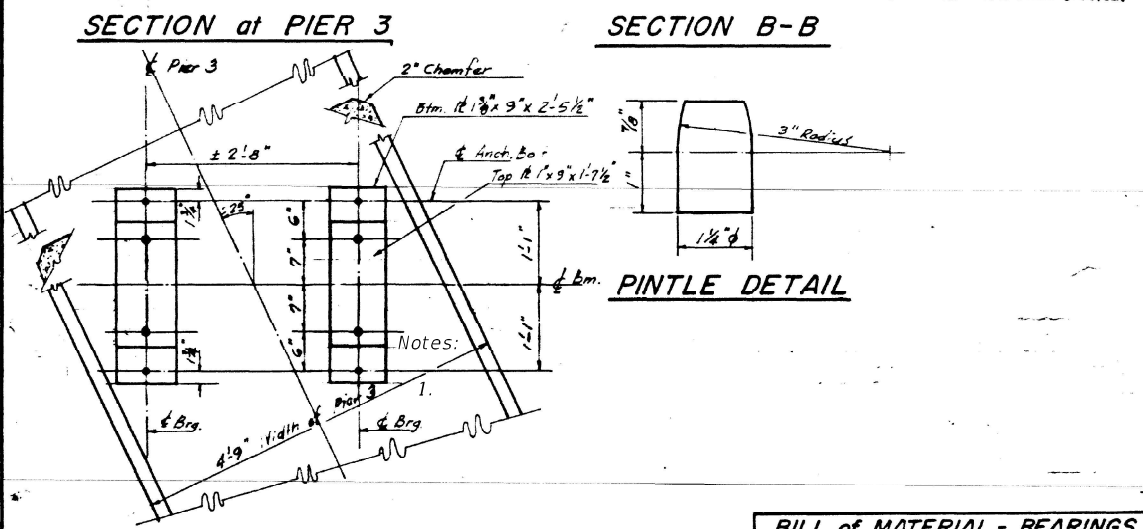
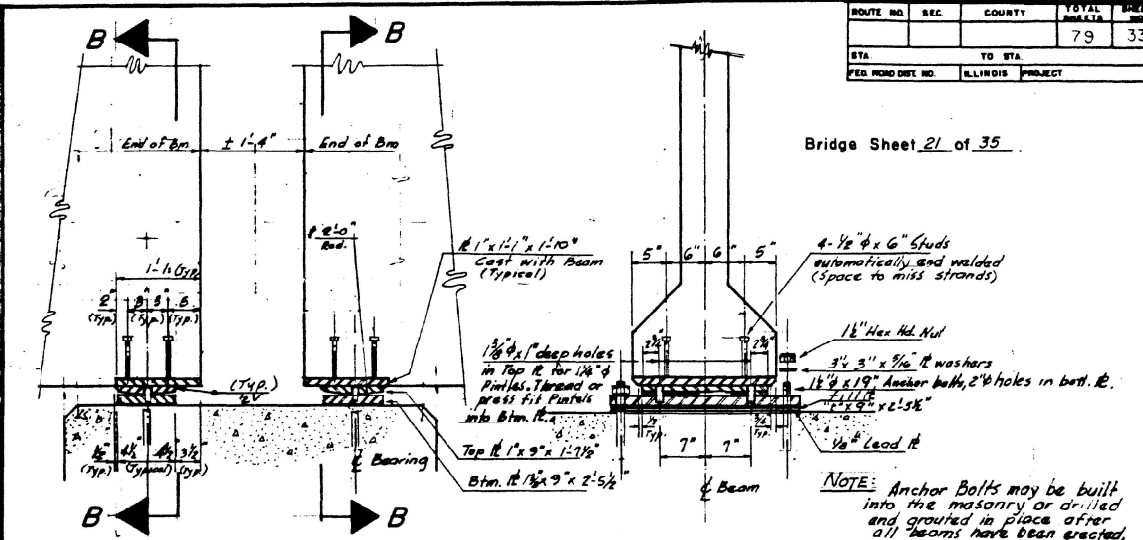
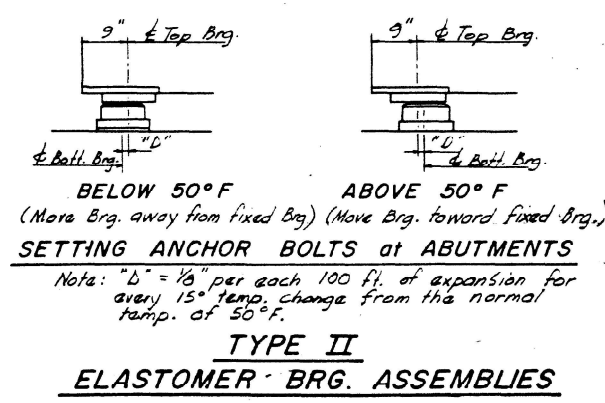
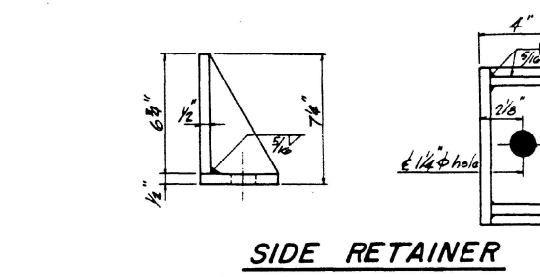
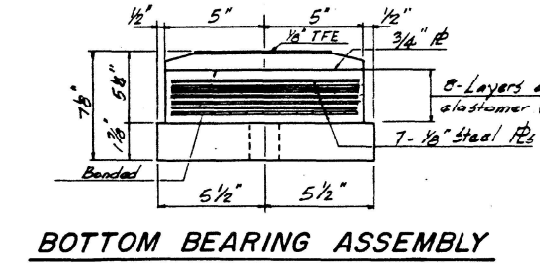
Bridge Sheet 21 of 35



**SECTION thru TFE**

**NOTE:** The 1/8" TFE sheet shall be bonded directly to the top steel PL with a two component, medium viscosity epoxy resin, conforming to the requirements of the Federal Spec. ASTM A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of the 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



**BILL of MATERIAL - BEARINGS**

Item	Unit	Quantity
Elastomeric Bearing Assy-Type 2	ea.	24
Furn. & Erect. Structural Steel	lbs.	4-142

**NOTE:** For fabrication and painting of bearing units, see Articles 503.00, 503.04 and 509.05 of the Standard Specifications.

**NORTH BRIDGE**  
Table of "b" Dimensions

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
West Abut.	1/4"	1/8"	1/8"	1/8"	0	1/8"
Pier 1	0	0	0	0	0	0
Pier 2	0	0	0	0	0	0
Pier 3	0	0	0	0	1/8"	1/8"
Pier 4	0	0	0	0	0	0
Pier 5	0	0	0	0	0	0
East Abut.	1/8"	1/8"	0	0	0	0

**SOUTH BRIDGE**  
Table of "b" Dimensions

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
West Abut.	1/8"	0	0	1/8"	1/8"	0
Pier 1	0	0	0	0	0	0
Pier 2	0	0	0	0	0	0
Pier 3	0	0	0	0	0	0
Pier 4	0	0	0	0	0	0
Pier 5	0	0	0	0	0	0
East Abut.	0	0	1/8"	1/8"	0	0

**BEARING DETAILS**

FA ROUTE 408-SEC.75-1B-3  
OVER  
PIGEON CREEK  
PIKE COUNTY  
STA. 1217 + 70.00

ORIGINAL PLANS  
FOR INFORMATION ONLY

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Professional Design Firm No. 284-005516

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CONSULTING ENGINEERS  
A Limited Liability Company  
100 N. 7th Street, 3rd Floor  
Springfield, IL 62702  
Phone: 217-618-0244

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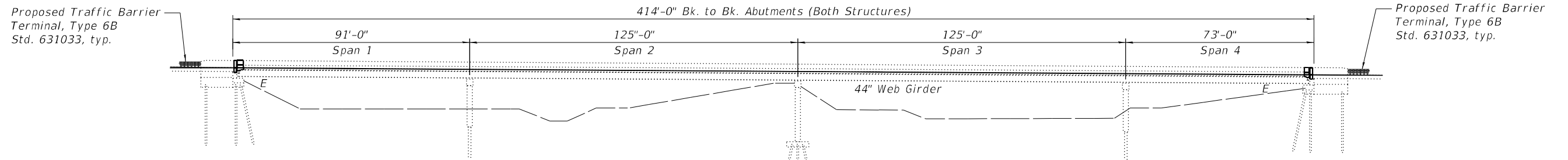
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAINTING DETAILS INFORMATION  
STRUCTURE NO. 075-0084 & 075-0085

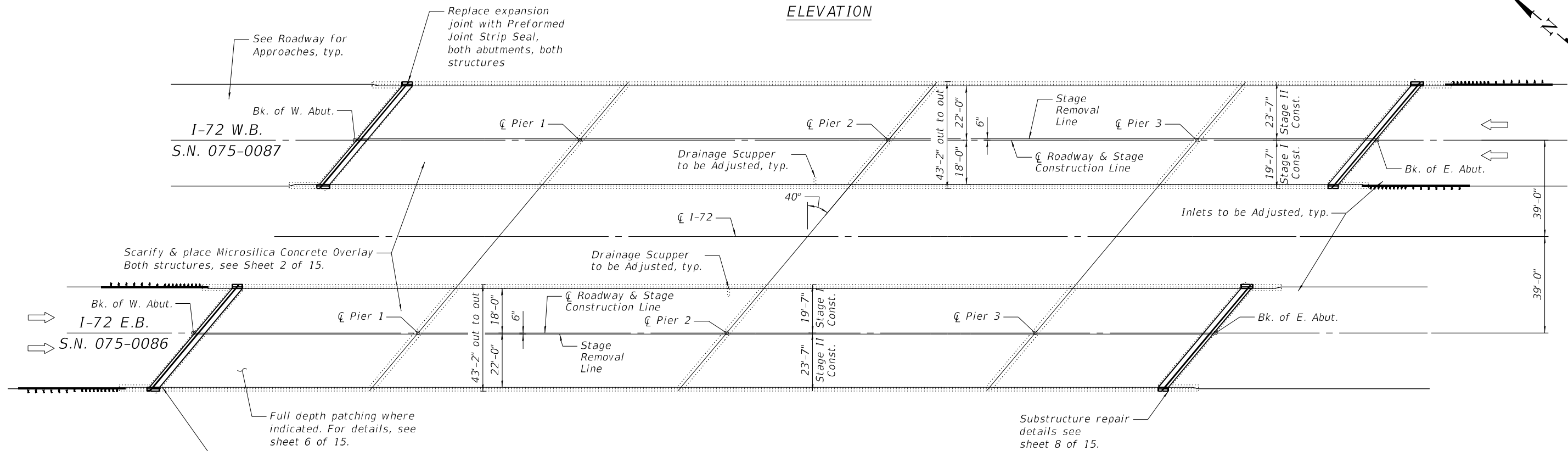
SHEET 13 OF 13 SHEETS

FAI RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKE	49	31
			CONTRACT NO. 72N49	
		ILLINOIS FED. AID PROJECT		

\* (75-1B-(3,4)) BDR, BRR, BJR, BP



**ELEVATION**



**PLAN**

**GENERAL NOTES**

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

Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Areas of deck slab repair and concrete curb removal shown are estimated. The Engineer shall show actual locations of deck repairs on As-Built plans.

¾" Approach Scarification will be paid for as Bridge Deck Scarification, ¾" in Sq. Yd.

Deck drains that are currently plugged shall remain plugged and have the new overlay cast over the top of them.

**PAINT NOTES**

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 10 ft (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning (SSPC-SP10).

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) shall be painted according to the requirements of Organic Zinc-Rich Epoxy/Urethane. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell no. 7.5G 4/8.

Containment of cleaning residue is required to control nuisance dust. See special provisions.

SSPC QP1 Certification is required for this Contract.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Containment and Disposal of Non-Lead Paint Cleaning Residues Bridge No. 3	L. Sum	1
Containment and Disposal of Non-Lead Paint Cleaning Residues Bridge No. 4	L. Sum	1
Drainage Scupper Adjustment	Each	2
* Protective Coat	Sq. Yd.	3694
Concrete Removal	Cu. Yd.	30.2
Concrete Superstructure	Cu. Yd.	36.2
Reinforcement Bars, Epoxy Coated	Pound	4110
Bar Splicers	Each	48
Preformed Joint Strip Seal	Foot	216
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	2208
Cleaning and Painting Steel Bridge No. 3	L. Sum	1
Cleaning and Painting Steel Bridge No. 4	L. Sum	1
Bridge Deck Scarification, ¾"	Sq. Yd.	3636
Bridge Deck Microsilica Concrete Overlay, 2¾"	Sq. Yd.	3636
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq. Ft.	105
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	30
Diamond Grinding (Bridge Section)	Sq. Yd.	3680

\* On new deck surface only



Date: August 25, 2022  
Expires: November 30, 2022

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
STRUCTURE NO. 075-0086 & 075-0087

SHEET 1 OF 15 SHEETS

FAI. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKE	49	32

CONTRACT NO. 72N49

\* (75-1B-(3,4)) BDR, BRR, BJR, BP

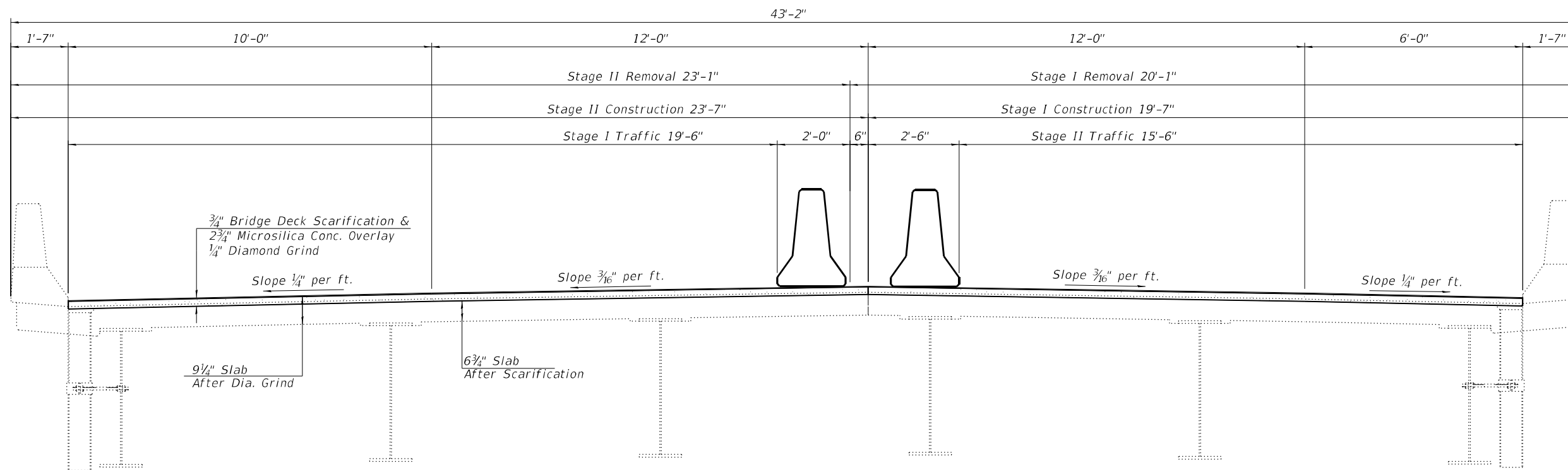
ILLINOIS FED. AID PROJECT

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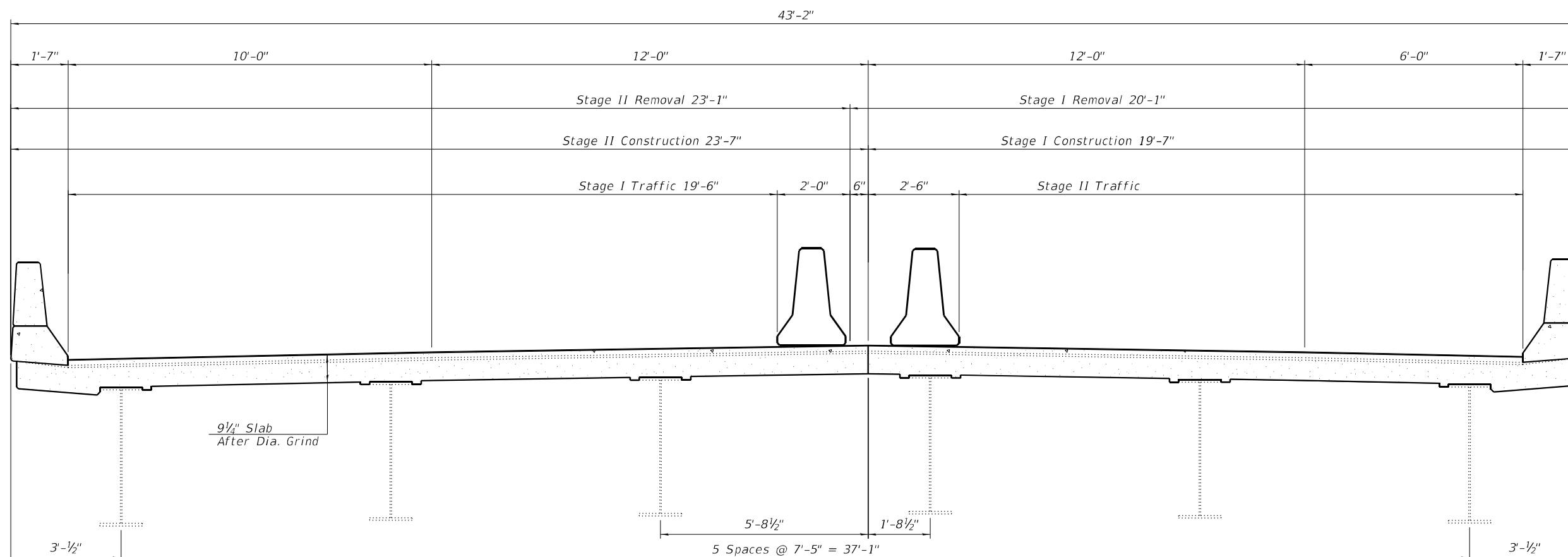
**KUHN & TRELLO**  
CONSULTING ENGINEERS  
A Limited Liability Company  
109 N. 7th Street, 3rd Floor  
Springfield, IL 62702  
Phone: 217-418-0244

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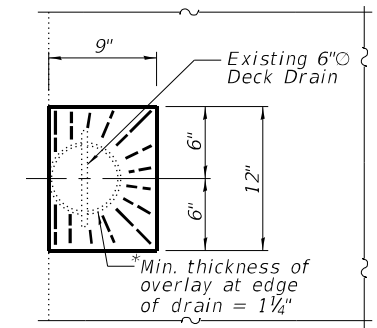




**CROSS SECTION AT MID SPANS**  
 Looking East At W.B. Bridge  
 Looking West At E.B. Bridge



**CROSS SECTION AT JOINT REPLACEMENT LOCATIONS**  
 Looking East At W.B. Bridge  
 Looking West At E.B. Bridge



**OVERLAY TREATMENT AT DRAINS**

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

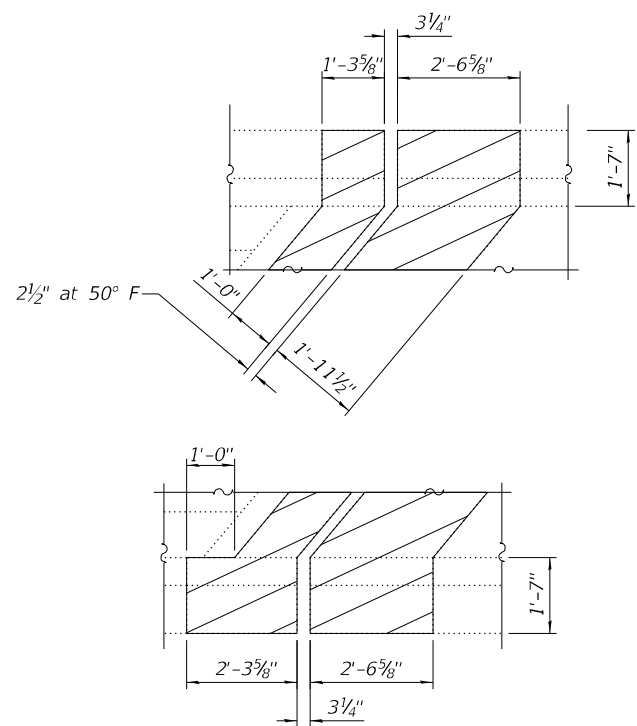
**STAGING DETAILS & CROSS SECTION**  
**STRUCTURE NO. 075-0086 & 075-0087**

SHEET 2 OF 15 SHEETS

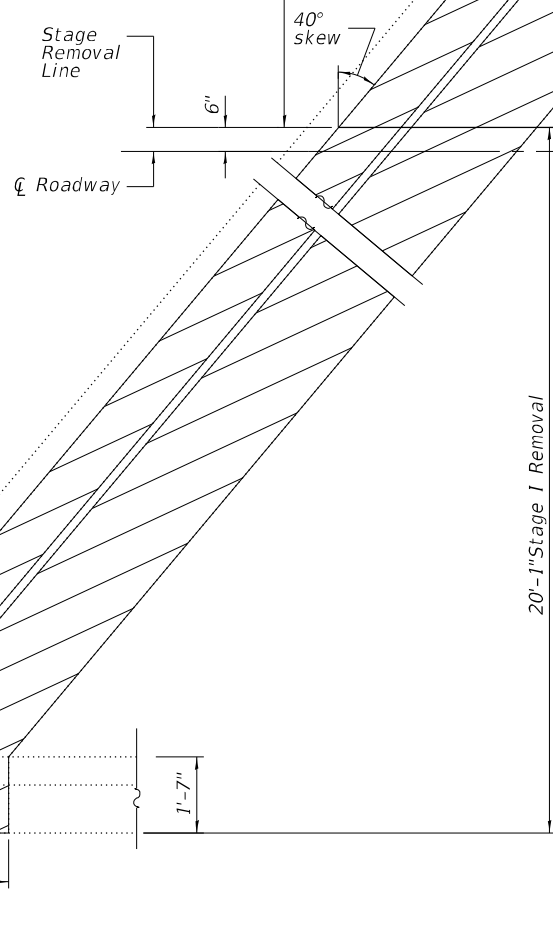
FAI R/E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKE	49	33
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3,4)) BDR, BRR, BJR, BP

\*Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included wth Concrete Removal.

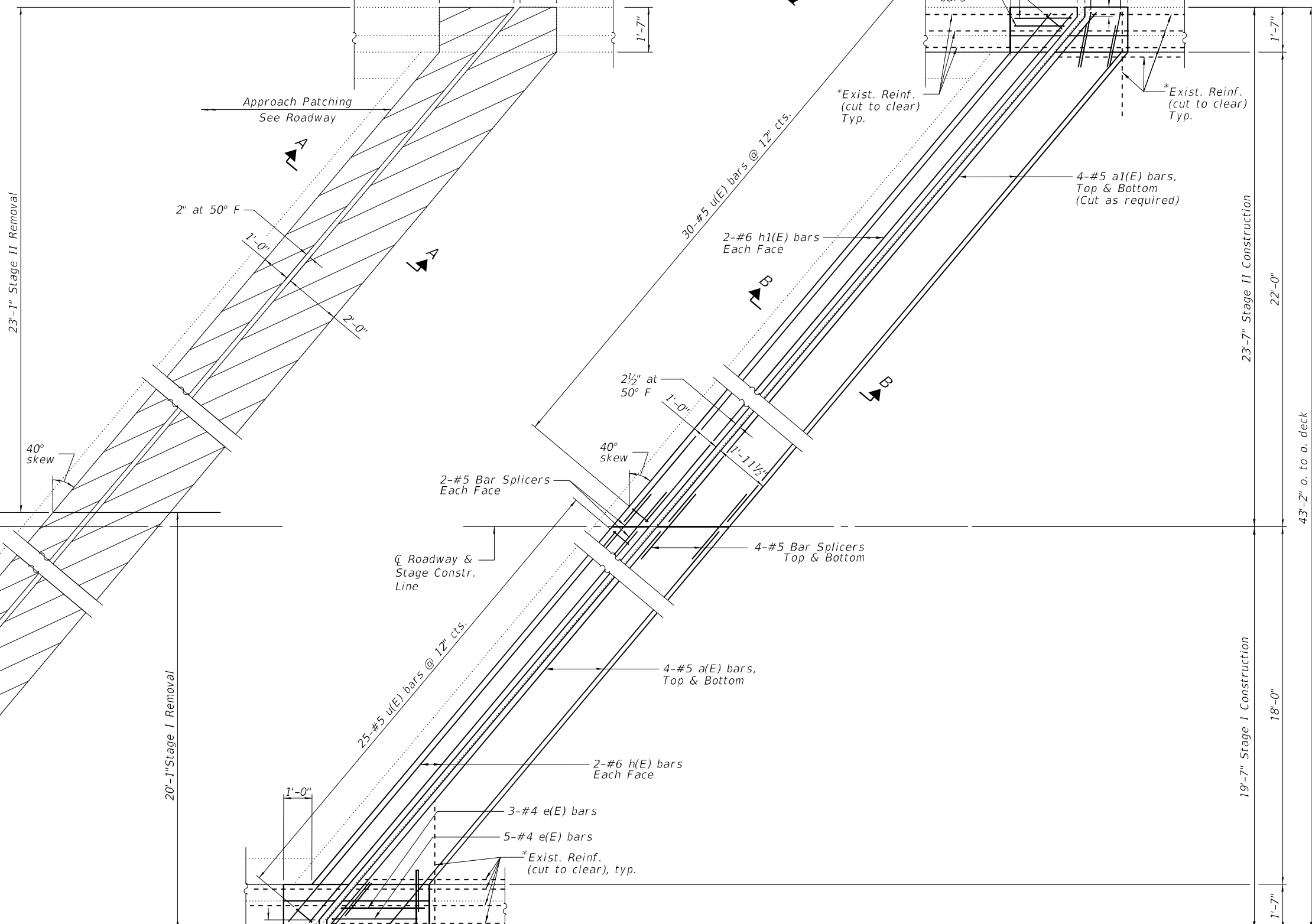


**REMOVAL PARTIAL PLAN**  
(For S.N. 075-0086)



**CONCRETE REMOVAL AT ABUTMENTS**

(For S.N. 075-0087, S.N. 075-0086 similar, see detail above)



**PROPOSED CONCRETE AT ABUTMENTS**

**MIN. LAP**

- #4 bars = 3'-0"
- #5 bars = 3'-6"
- #6 bars = 4'-0"

(Sheet 1 of 2)

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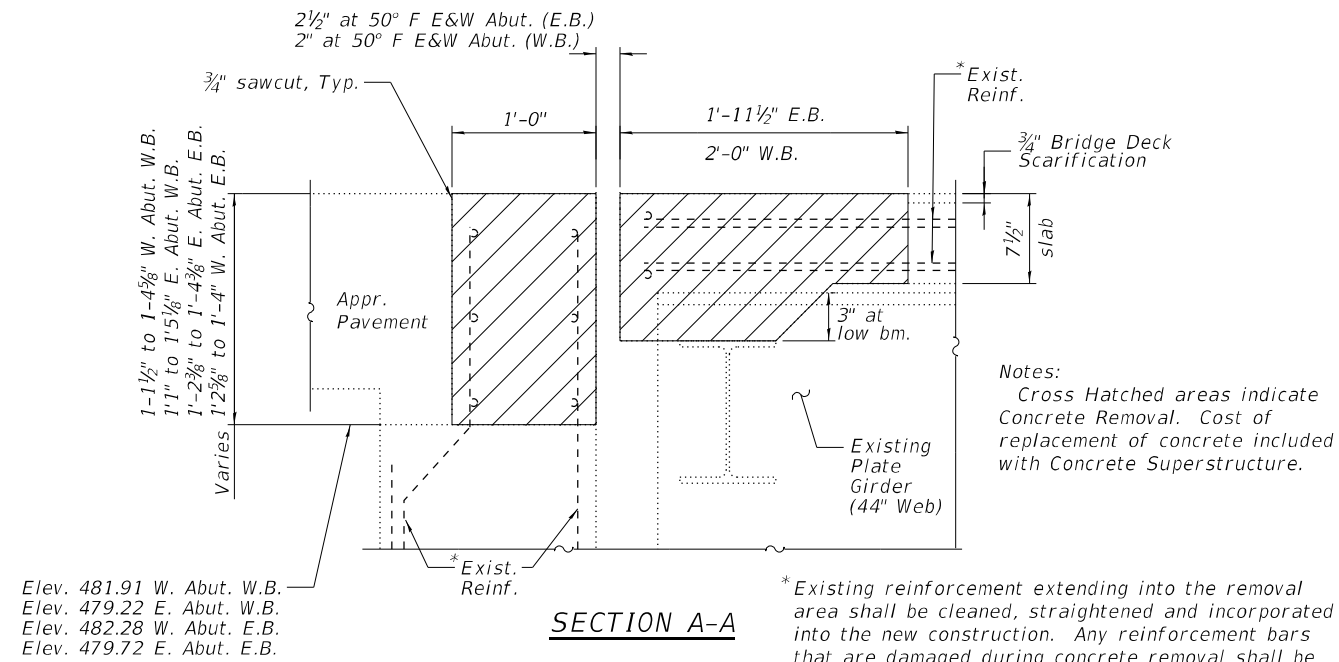
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL & REPLACEMENT DETAILS AT ABUTMENTS  
STRUCTURE NO. 075-0086 & 075-0087**

SHEET 3 OF 15 SHEETS

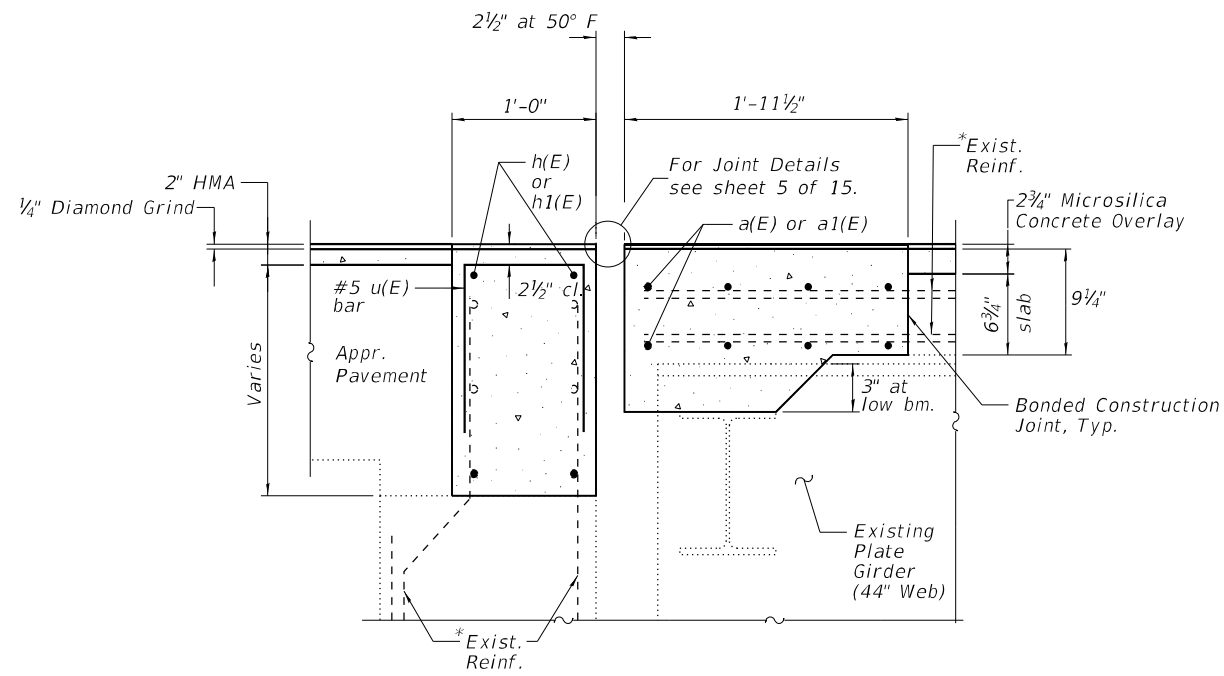
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72	(75) BDR, BJR	PIKE	49	34
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				



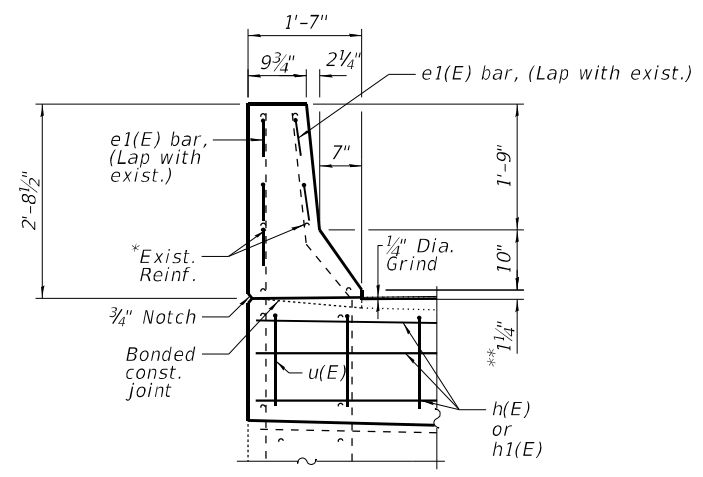
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Elev. 479.22 E. Abut. W.B.  
Elev. 482.28 W. Abut. E.B.  
Elev. 479.72 E. Abut. E.B.

SECTION A-A

\*Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

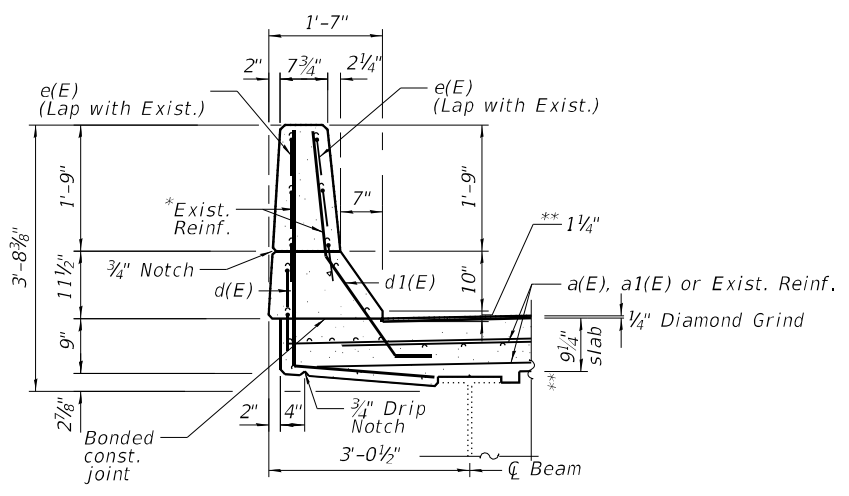


SECTION B-B

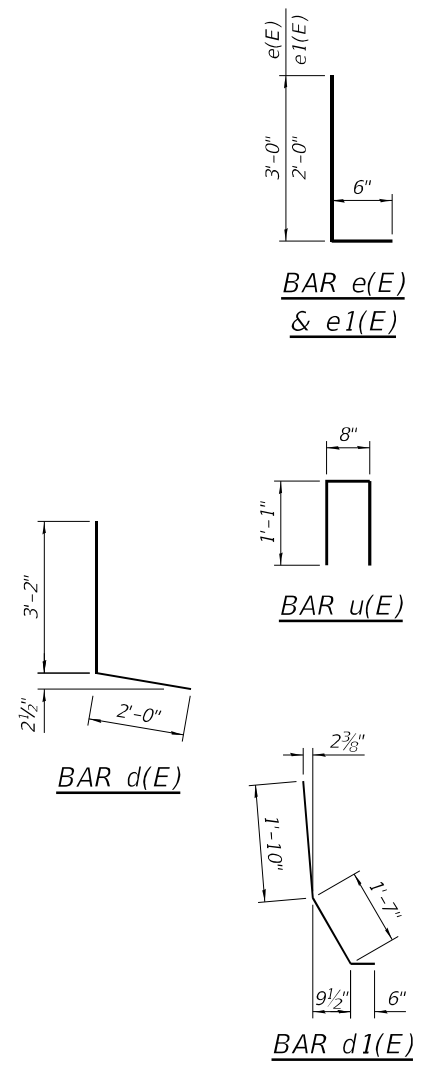


TYPICAL SECTION AT APPROACH PARAPET

\*\*After 1/4" dia. grinding



TYPICAL SECTION THRU BRIDGE PARAPET



BILL OF MATERIAL FOUR ABUTMENTS

Bar	No.	Size	Length	Shape
a(E)	32	#5	25'-0"	—
a1(E)	32	#5	30'-3"	—
d(E)	24	#4	5'-2"	L
d1(E)	24	#5	3'-11"	L
e(E)	32	#4	3'-6"	┌
e1(E)	20	#4	2'-6"	┌
h(E)	16	#6	25'-0"	—
h1(E)	16	#6	30'-3"	—
u(E)	220	#5	2'-10"	□
Concrete Removal			Cu. Yd.	30.2
Concrete Superstructure			Cu. Yd.	36.1
Reinforcement Bars, Epoxy Coated			Pound	4110
Bar Splicers			Each	48

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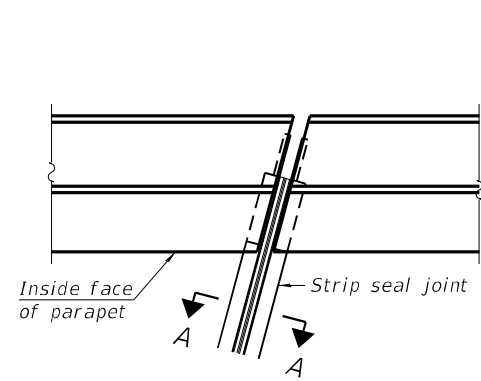


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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

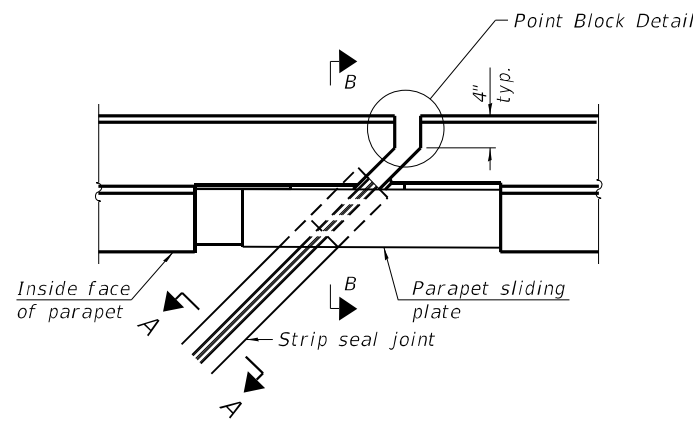
JOINT REMOVAL & REPLACEMENT DETAILS AT ABUTMENTS  
STRUCTURE NO. 075-0086 & 075-0087

FAI RIE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	35
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

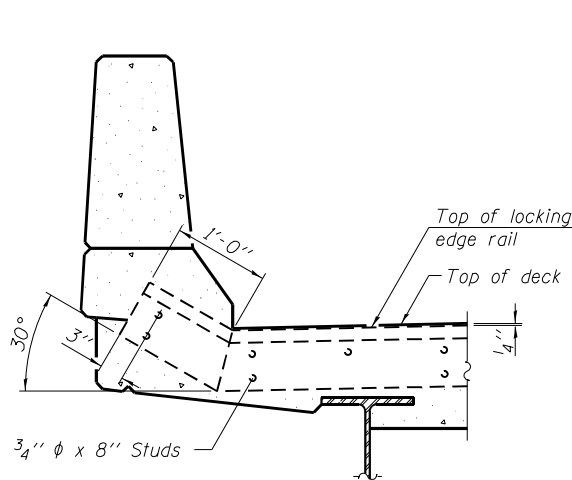


FOR SKEWS  $\leq 30^\circ$

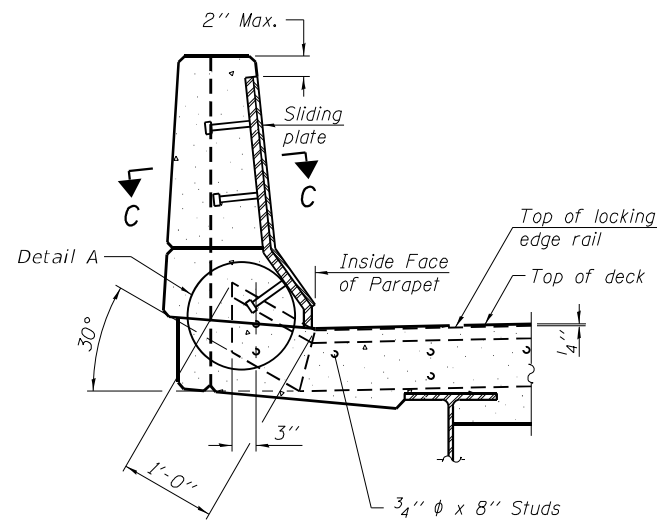
PLAN AT PARAPET



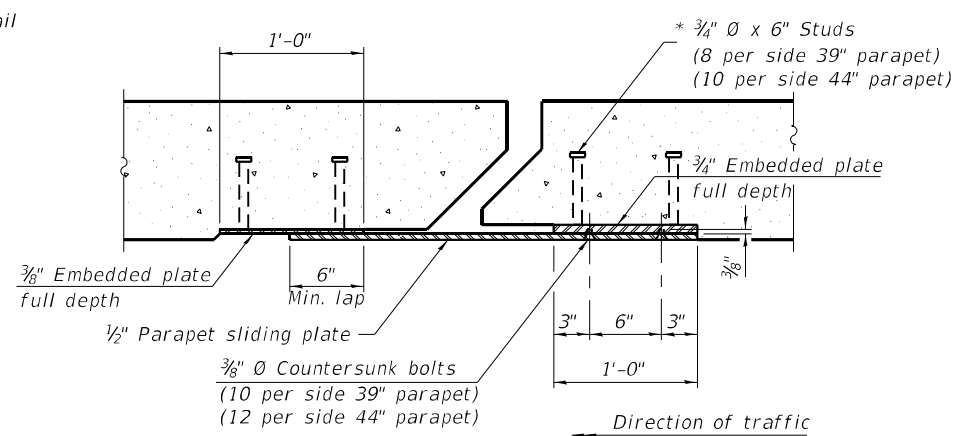
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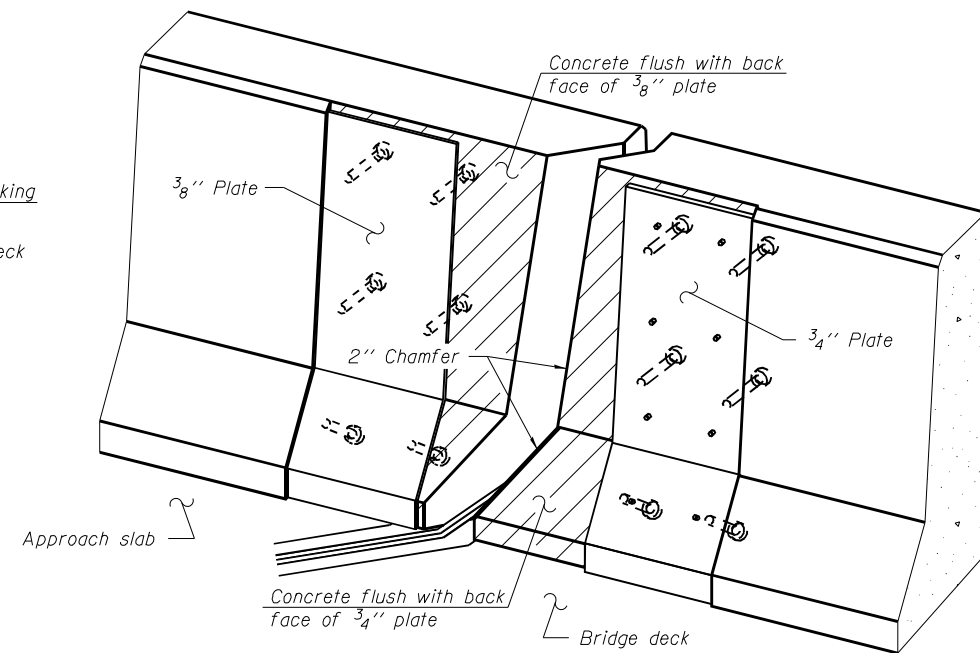
DETAIL A



SECTION B-B



SECTION C-C



TRIMETRIC VIEW  
(Showing back plates only)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

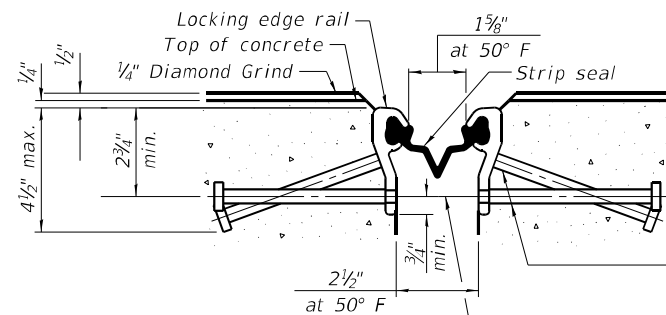
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



N&S Abut. 075-0086

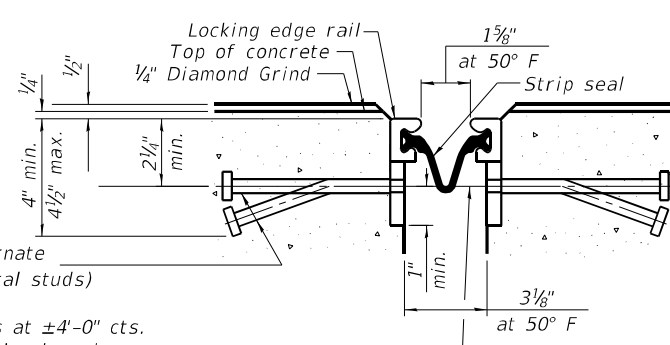
SHOWING ROLLED RAIL JOINT

\* 5/8"  $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

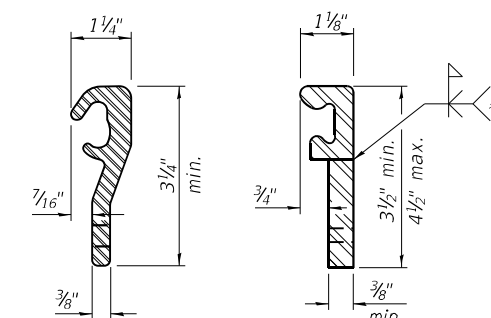
3/8"  $\phi$  threaded rods in 7/16"  $\phi$  holes at  $\pm 4'-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

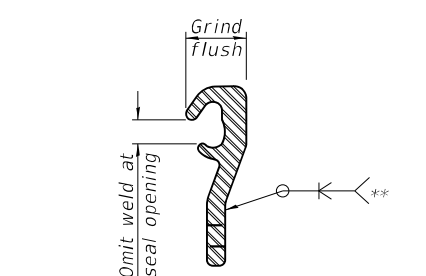


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

\*\* Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	216

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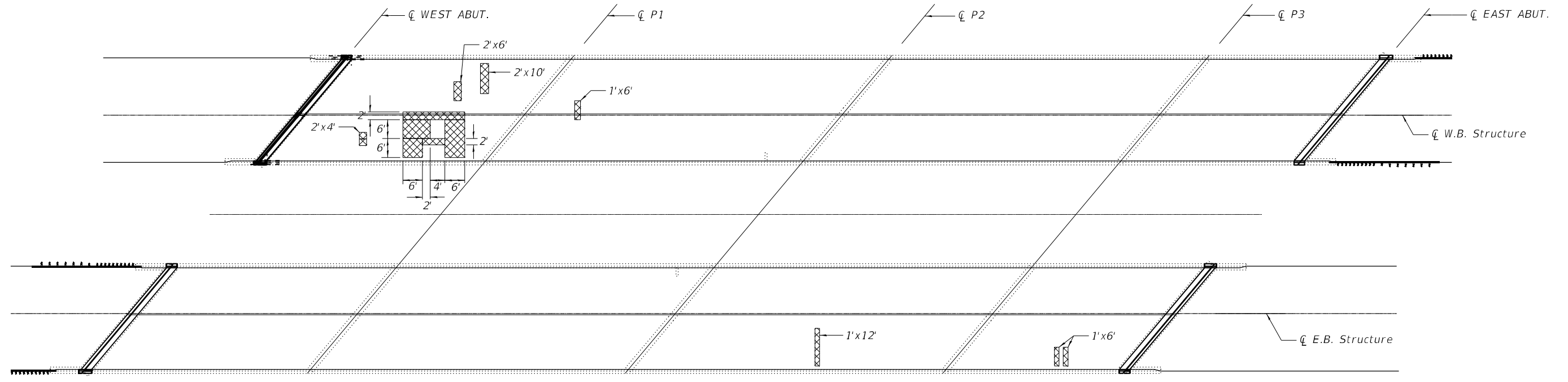
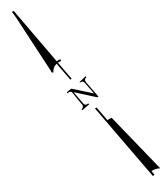
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL  
STRUCTURE NO. 075-0086 & 075-0087

SHEET 5 OF 15 SHEETS

FAI RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75) BDR, BJR	PKE	49	36
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				



Deck Slab Repair (Full Depth, Type II)

**SUPERSTRUCTURE  
BILL OF MATERIAL**

Item	Unit	Total
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	30

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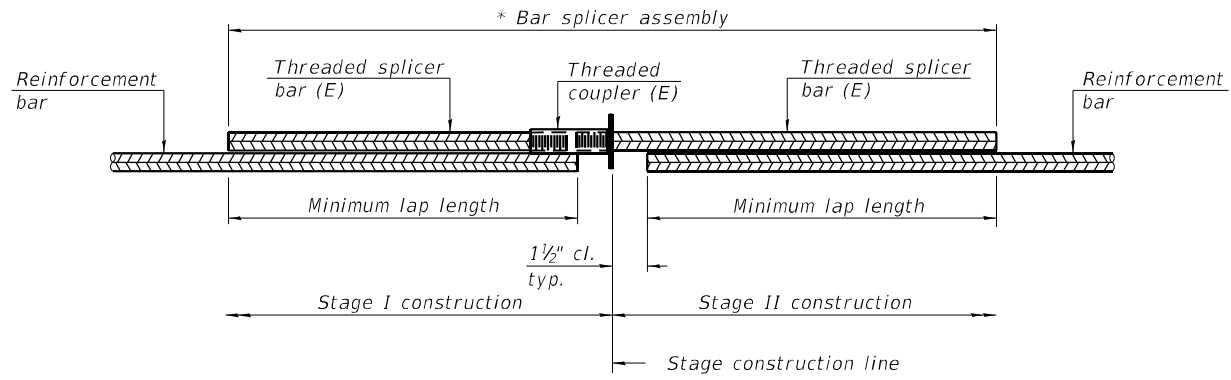
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DECK SLAB REPAIR DETAILS  
STRUCTURE NO. 075-0086 & 075-0087**

SHEET 6 OF 15 SHEETS

FAI RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	37
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3,4)) BDR, BRR, BJR, BP

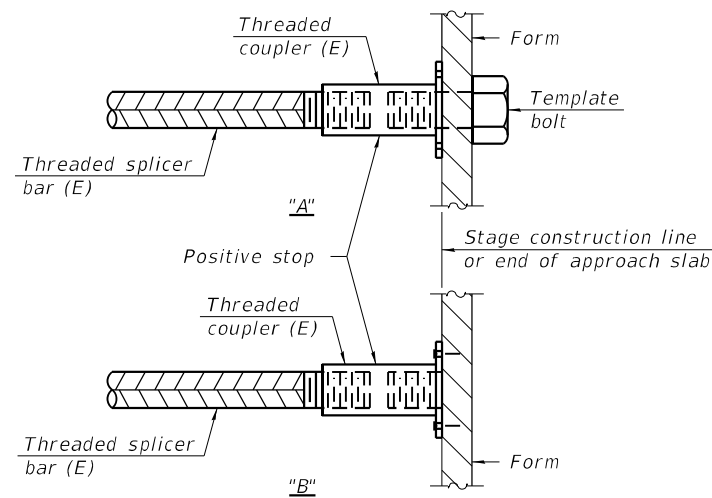


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

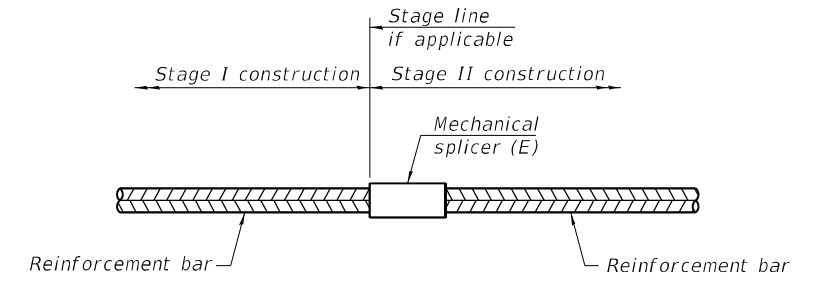
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bridge Deck W. Abut. E.B.	#5	8	3'-6"
Bridge Deck E. Abut. E.B.	#5	8	3'-6"
Hatch Block W. Abut. E.B.	#6	4	4'-0"
Hatch Block E. Abut. E.B.	#6	4	4'-0"
Bridge Deck W. Abut. W.B.	#5	8	3'-6"
Bridge Deck E. Abut. W.B.	#5	8	3'-6"
Hatch Block W. Abut. W.B.	#6	4	4'-0"
Hatch Block E. Abut. W.B.	#6	4	4'-0"



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

**Notes:**  
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1                          1-1-2020

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<b>KUHN &amp; TRELLO</b> CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62702 Phone: 217-616-0044 Professional Design Firm No. 284-006516	USER NAME = DESIGNED - SPN CHECKED - MJT PLOT SCALE = PLOT DATE = 8/24/2022 1:26:59 PM	DRAWN - MMY/LS CHECKED - SPN/MJT	REVISED - REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

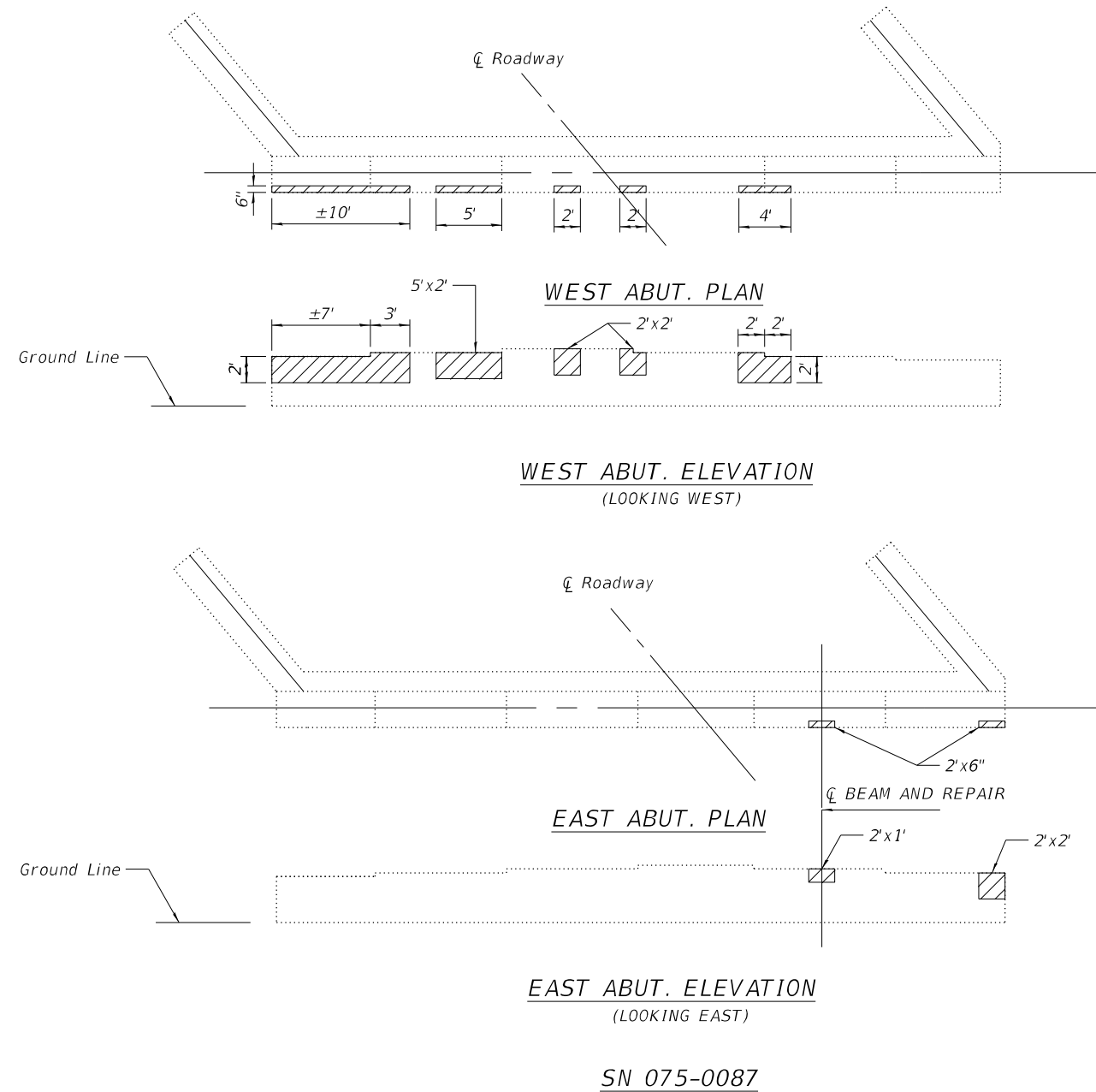
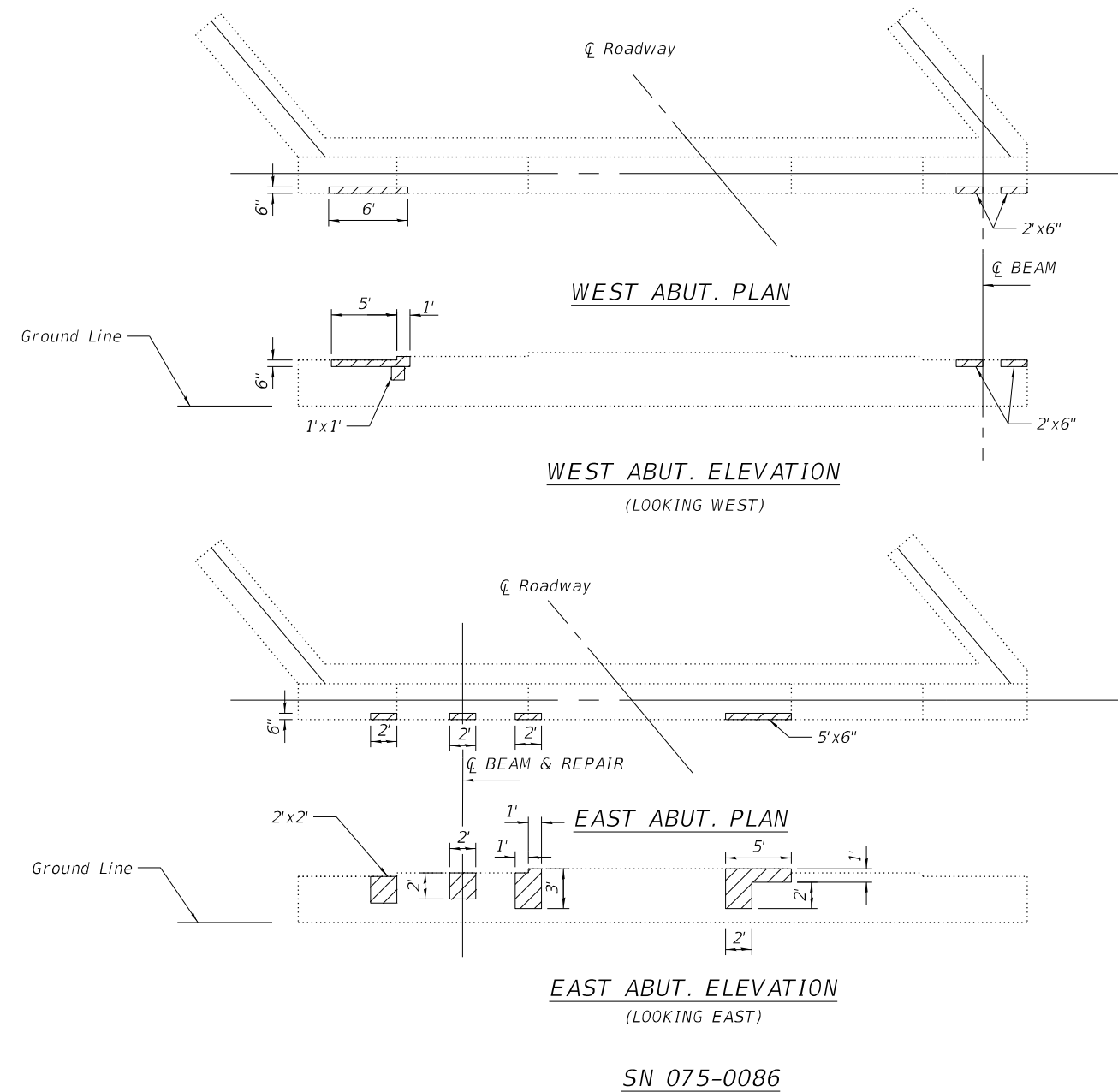
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 075-0086 & 075-0087**

SHEET 7 OF 15 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKE	49	38
CONTRACT NO. 72N49				
ILLINOIS		FED. AID PROJECT		

\* (75-1B-(3,4)) BDR, BRR, BJR, BP

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**SUBSTRUCTURE REPAIR PLAN**

Substructure Repair (Less than 5")

**SUBSTRUCTURE BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete < 5"	Sq. Ft.	105

\* (75-1B-(3.4)) BDR, BRR, BJR, BP



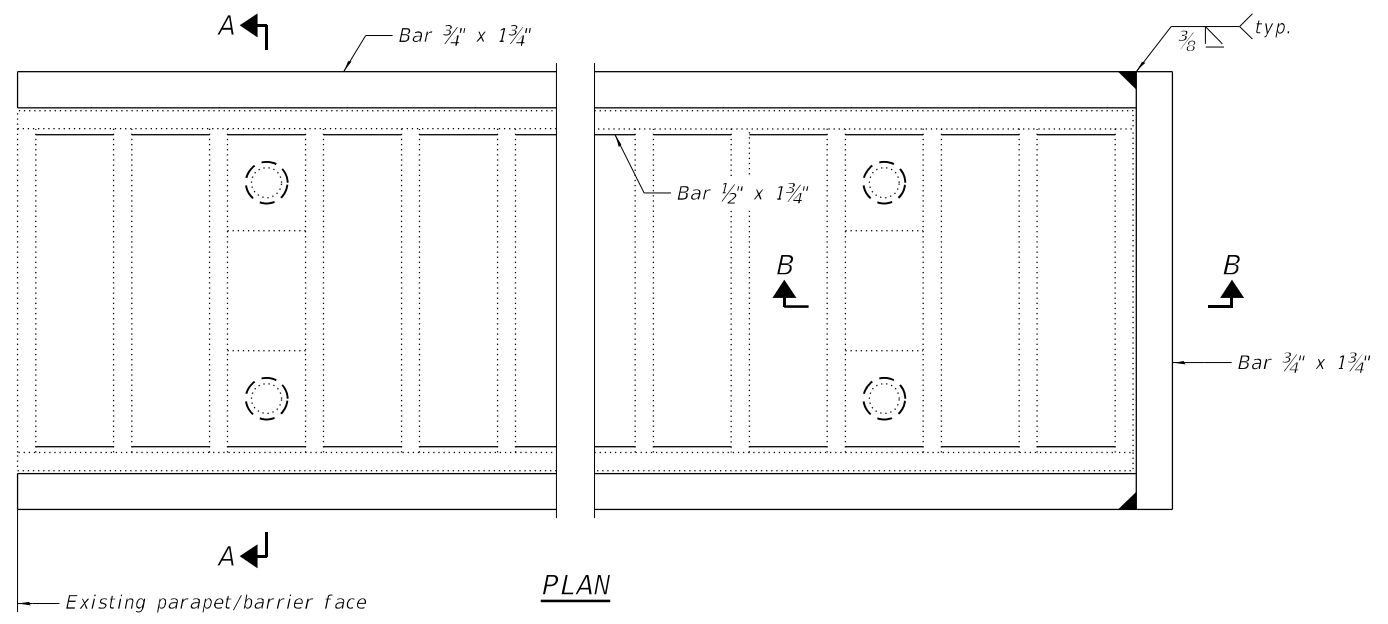
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

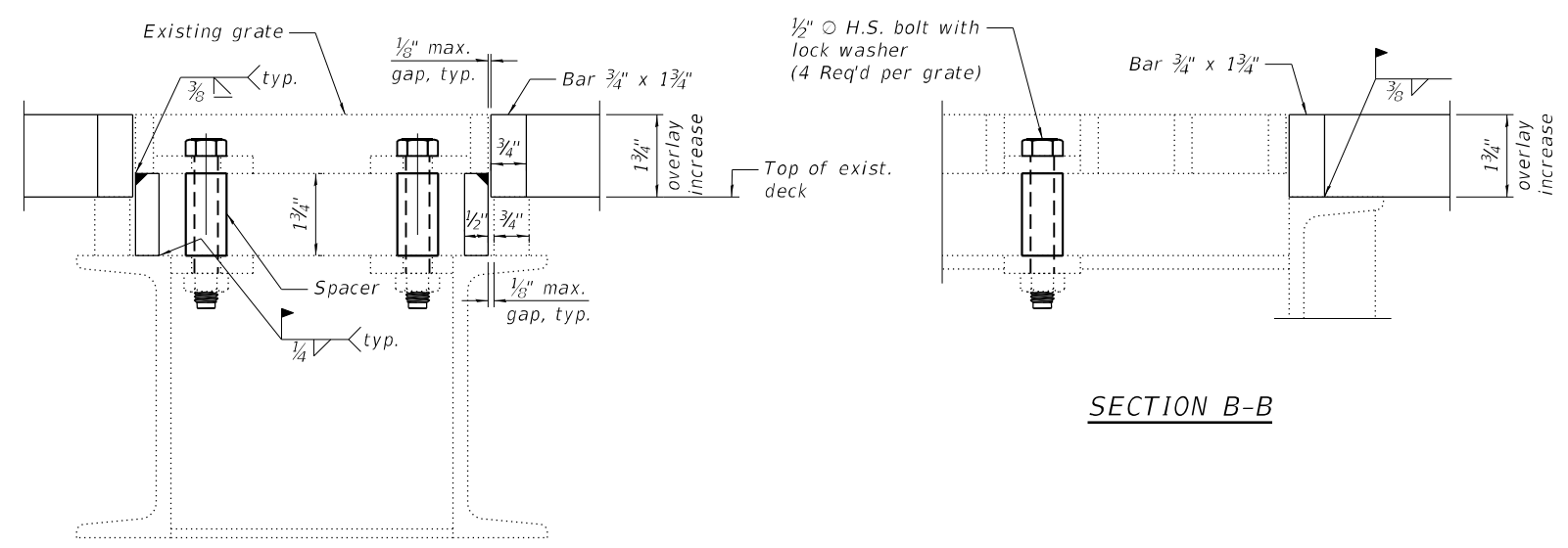
**SUBSTRUCTURE REPAIR DETAILS  
 STRUCTURE NO. 075-0086 & 075-0087**

SHEET 8 OF 15 SHEETS

FAI RTR.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	39
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				



**PLAN**



**SECTION A-A**

**SECTION B-B**

**Notes:**

1. Existing drainage scupper grates shall be adjusted so that the top of the existing grate is flush with the top of the bridge deck overlay.
2. Proposed structural steel for adjusting the scupper grates shall conform to AASHTO Classification M-270 Gr. 36. All proposed components adjusting the scupper grates shall be hot dipped galvanized.
3. Bolts shall be 1/2"  $\varnothing$  ASTM F3125 Grade a325 Type 1, mechanically galvanized. Spacer may be fabricated from round steel pipe.
4. The Contractor shall ensure that no damage is done to the existing grates to be reused.
5. Shop plans for the proposed scupper adjustment ring shall be submitted to the Engineer for approval prior to fabrication.
6. See existing scupper plans for details and dimensions not shown. The Contractor shall field verify the type of scupper present and the scupper dimensions.
7. Galvanizing for field welded areas shall be repaired per ASTM A 780.
8. Cost of all labor and materials necessary to remove existing grates, clean existing scuppers and downspouts, furnish and install scupper adjustment ring, and reinstalling the grates is included in the cost per unit each for Drainage Scupper to be Adjusted.
9. Clean existing scuppers and downspouts.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Drainage Scupper to be Adjusted	Each	2

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**KUHN & TRELLO**  
 CONSULTING ENGINEERS  
 A Limited Liability Company  
 109 N. 7th Street, 3rd Floor  
 Springfield, IL 62702  
 Phone: 217-416-0244  
 Professional Design Firm No. 284-005516

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

**DRAINAGE SCUPPER ADJUSTMENT DETAIL**  
**STRUCTURE NO. 075-0086 & 075-0087**

SHEET 9 OF 15 SHEETS

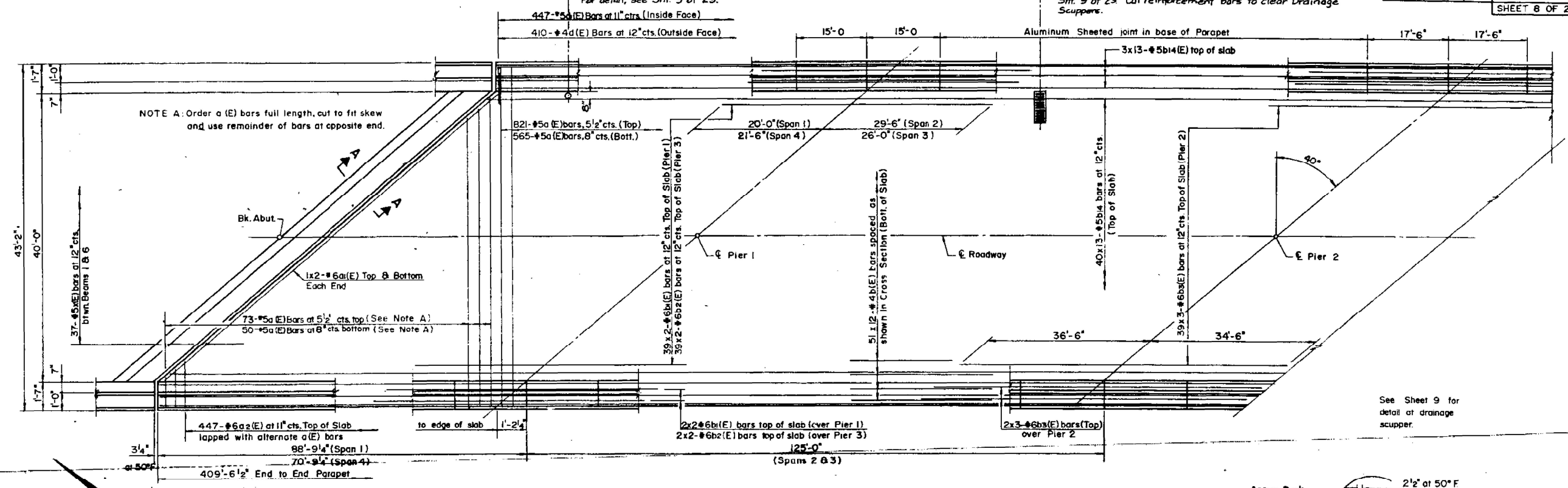
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CONTRACT NO. 72N49				
* (75-1B-(3,4)) BDR, BRR, BJR, BP ILLINOIS FED. AID PROJECT				



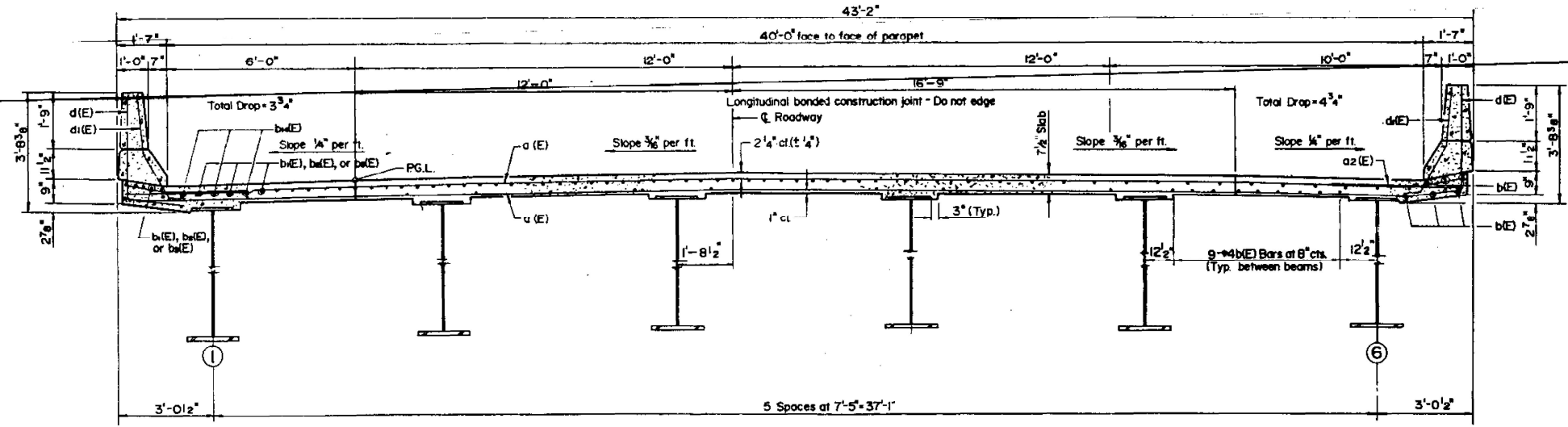


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 408	75-B-4	PIKE	79	59
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT			
				SHEET 8 OF 23

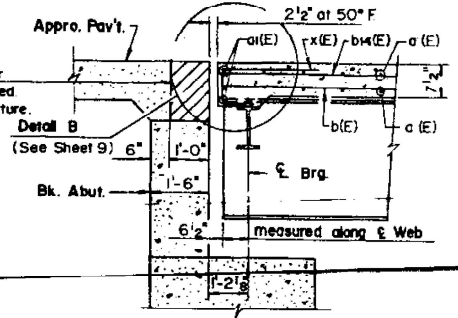
NOTE:  
Bars indicated thus 20x3#5 etc. indicates 20 lines of bars with 3 lengths per line.



PLAN



CROSS SECTION  
(W.B.L. looking West; E.B.L. looking East)



SEC. A-A

MIN. BAR LAP

#4	1'-8"
#5	2'-2"
#6	2'-7"

NOTE Work this sheet with sheet 9.  
For pouring sequence, See sheet 7.

SUPERSTRUCTURE  
F.A.P. RT. 408 SEC. 75-B-4  
PIKE COUNTY  
STA. I234+30

HSIONG ASSOCIATES LTD.	
DESIGNED: H.A.	CHECKED: W.H.
DRAWN: R.H.H.	DATE: NO. HONDA

ORIGINAL PLANS  
FOR INFORMATION ONLY

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

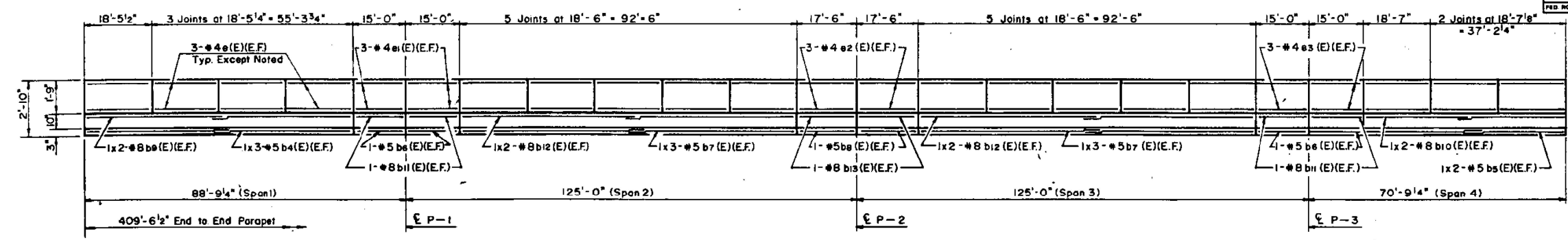
PAINTING DETAILS INFORMATION  
STRUCTURE NO. 075-0086 & 075-0087

SHEET 11 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	42
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3,4)) BDR, BRR, BJR, BP

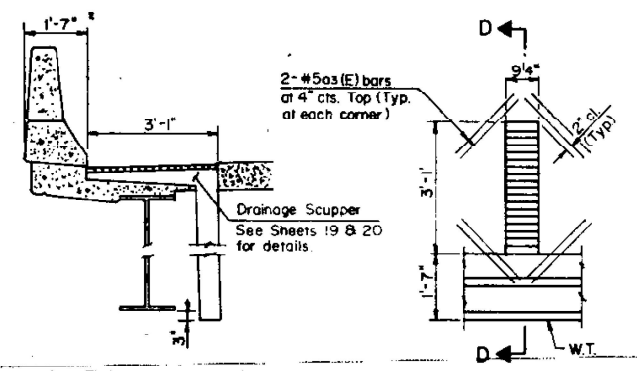
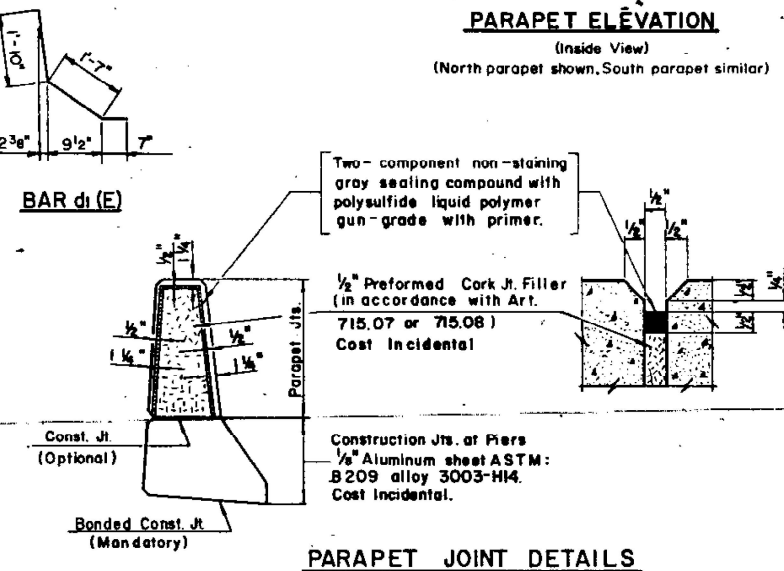
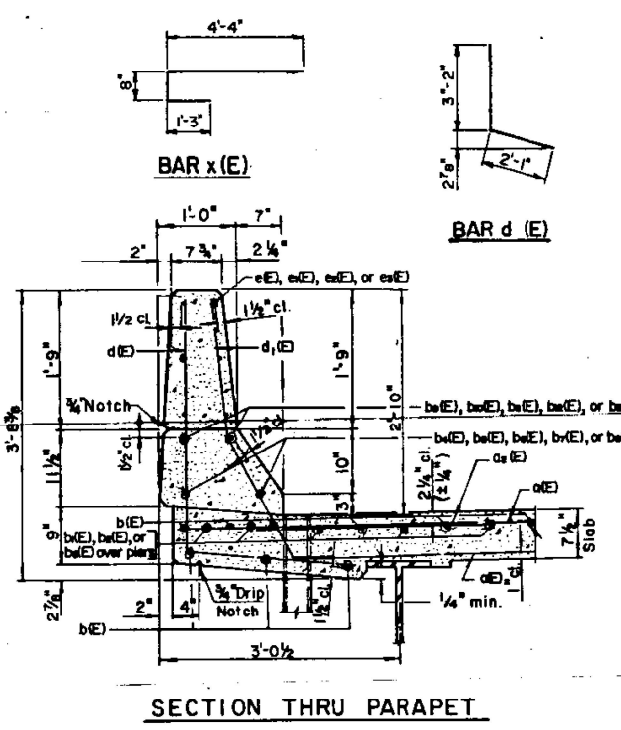
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F.A. 408	75-1B-4	PIKE	79	55
FED. ROAD DIST. NO. 1	ILLINOIS PROJECT		SHEET 9 of 23	



**MIN. BAR LAP**

BAR	Length
#4	1'-8"
#5	2'-2"
#6	2'-7"
#7	3'-6"
#8	4'-6"
#9	5'-9"
#11	9'-0"

**PARAPET ELEVATION**  
(Inside View)  
(North parapet shown, South parapet similar)



**SUPERSTRUCTURE BILL OF MATERIALS**

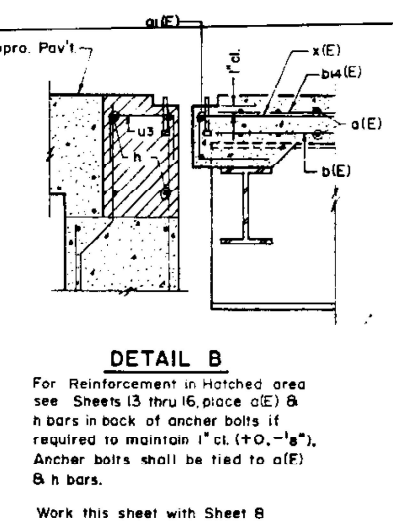
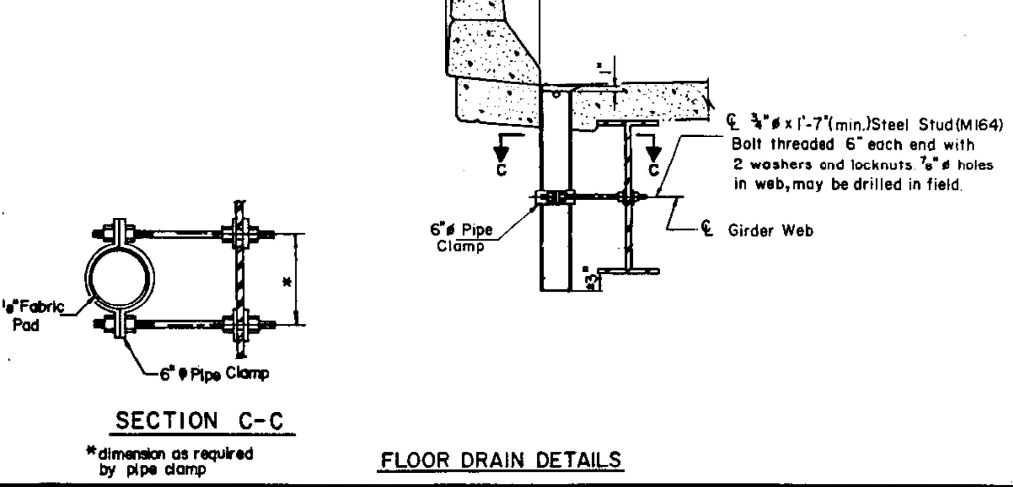
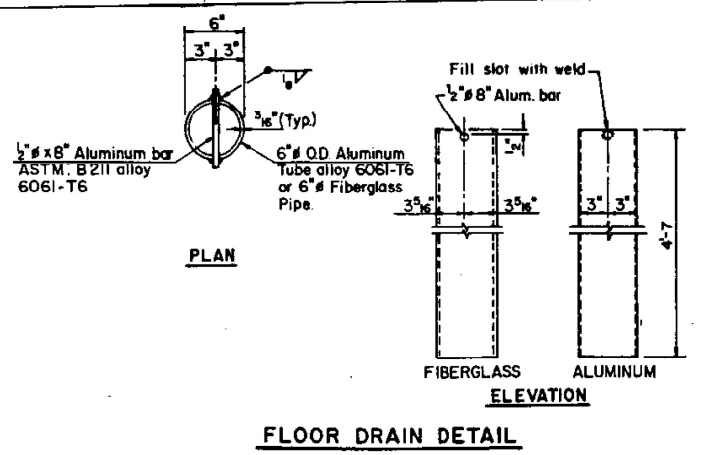
**TWO BRIDGES**

BAR	NO.	SIZE	LENGTH	SHAPE
a (E)	3018	#5	42'-6"	
a1(E)	16	#5	27'-6"	
a2(E)	1788	#6	4'-0"	
a3(E)	16	#5	2'-0"	
b (E)	1224	#4	35'-9"	
b1(E)	172	#6	26'-3"	
b2(E)	172	#6	25'-3"	
b3(E)	258	#6	25'-6"	
b4(E)	24	#5	26'-0"	
b5(E)	16	#5	29'-0"	
b6(E)	32	#5	14'-9"	
b7(E)	48	#5	32'-3"	
b8(E)	16	#5	17'-3"	
b9(E)	16	#8	39'-0"	
b10(E)	16	#8	30'-0"	
b11(E)	32	#8	14'-9"	
b12(E)	32	#8	14'-6"	
b13(E)	16	#8	17'-3"	
b14(E)	1196	#5	33'-6"	
d (E)	1640	#4	5'-3"	
d1(E)	1788	#5	4'-0"	
e (E)	408	#4	18'-3"	
e1(E)	96	#4	14'-9"	
e2(E)	48	#4	17'-3"	
x (E)	148	#5	6'-3"	

Class X Concrete	Cu. Yd.	10625
Reinforcement Bars (Epoxy Coated)	Lbs.	272,490

**Notes:**  
The exterior surfaces of the Floor Drains shall be painted with the vinyl enamel coat painting specified for Structural Steel. The exterior surfaces of the Aluminum tube shall be cleaned and given a washcoat pretreatment in accordance with Steel Structures Painting Council's Spec. SSPC - Paint 27 prior to painting. Fiberglass pipe shall conform to ASTM D2996 with short time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.



**SUPERSTRUCTURE DETAILS**  
F.A.P. RT. 408 SEC. 75-1B-4  
PIKE COUNTY  
STA. 1234+30

HSIONG ASSOCIATES LTD.  
DESIGNED: H.A. CHECKED: W.H.  
DRAWN: R.H.H. DATE: NO H-OIO A

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAINTING DETAILS INFORMATION  
STRUCTURE NO. 075-0086 & 075-0087

FAI RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PIKE	49	43
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

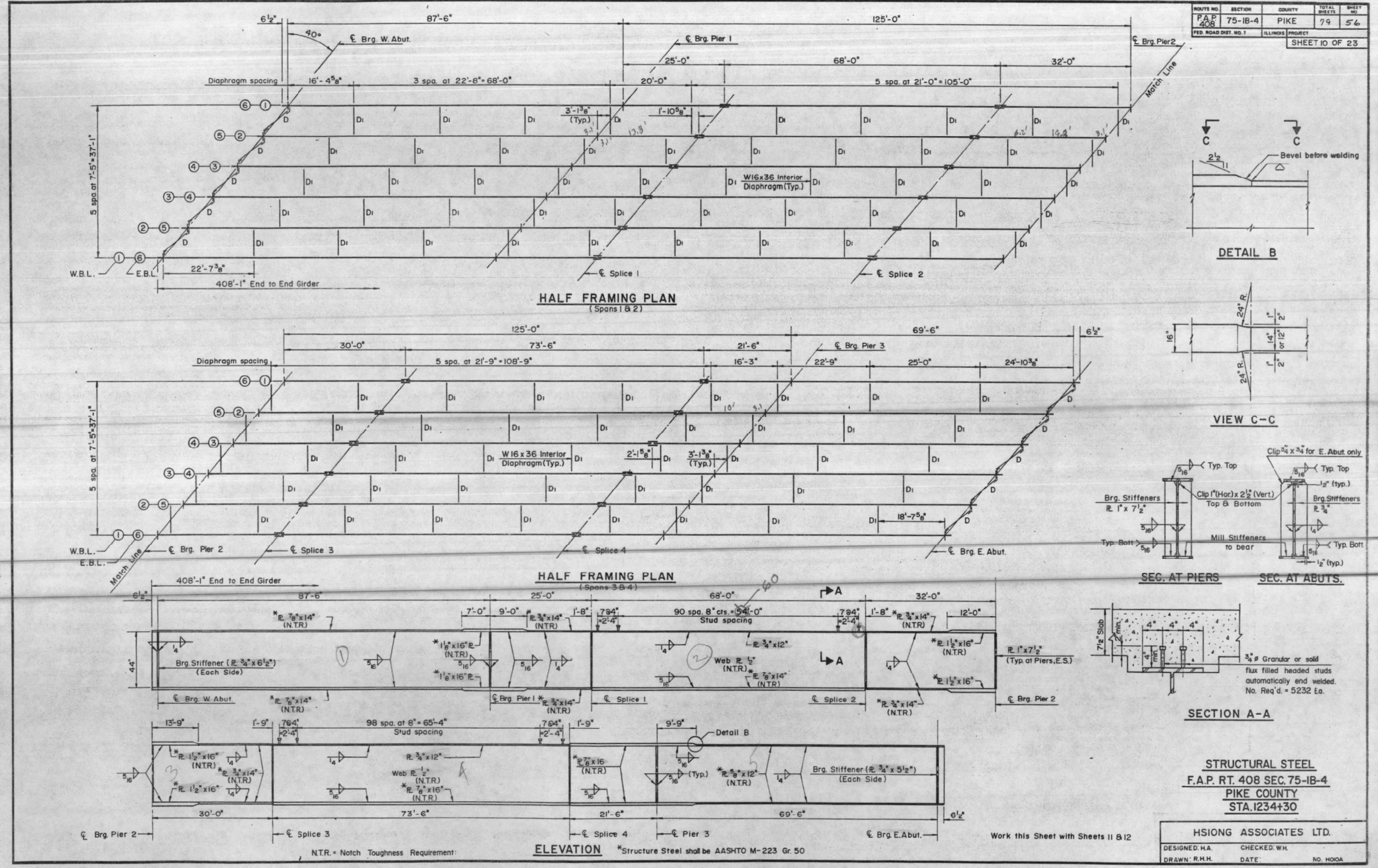
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Professional Design Firm No. 284-005516

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A Limited Liability Company  
100 N. 7th Street, 3rd Floor  
Springfield, IL 62702  
Phone: 217-618-0244

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ORIGINAL PLANS  
 FOR INFORMATION ONLY

(75-1B-(3,4)) BDR, BRR, BJR, BP



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAINTING DETAILS INFORMATION  
 STRUCTURE NO. 075-0086 & 075-0087

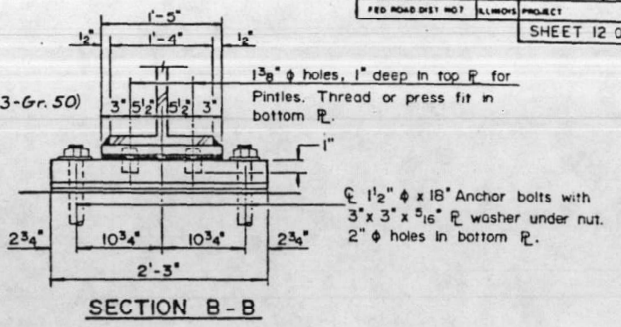
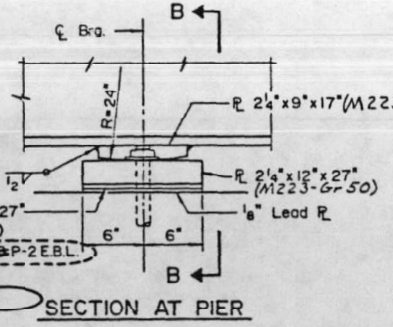
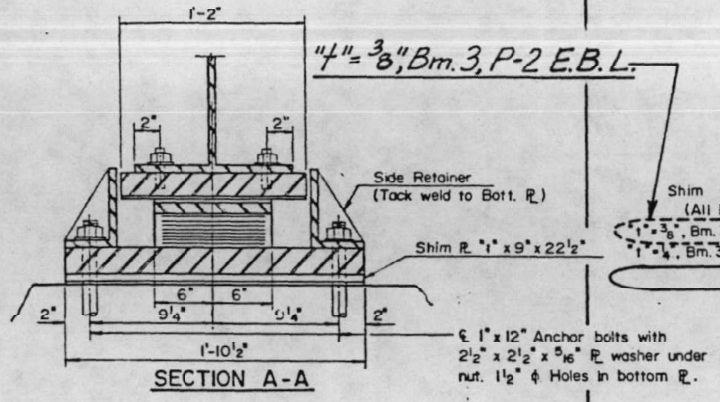
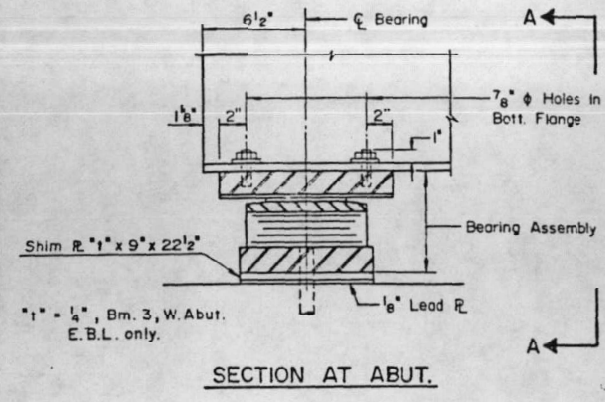
SHEET 13 OF 15 SHEETS

FAI RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

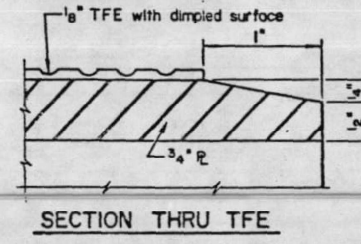
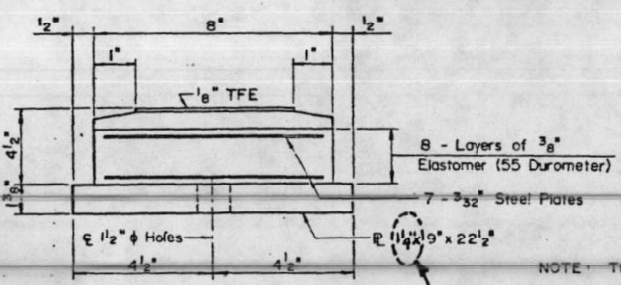
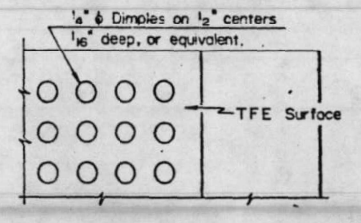
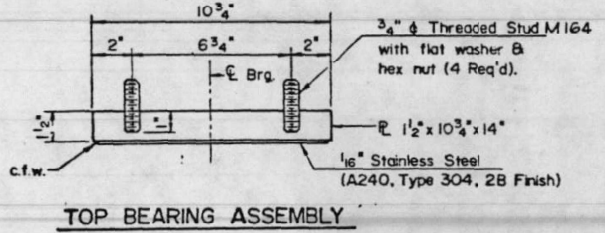


ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
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FED. ROAD DIST. NO. 1	ILLINOIS PROJECT			

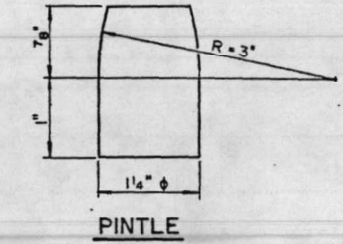
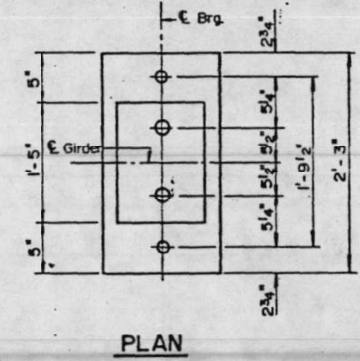
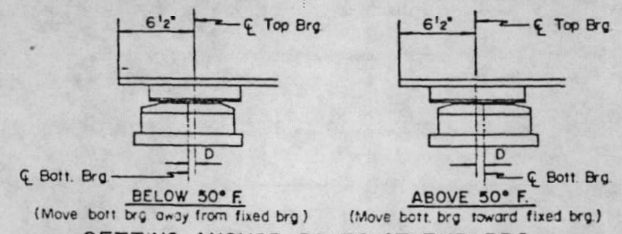
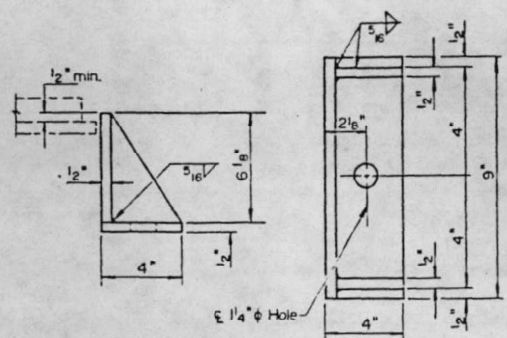
SHEET 12 OF 23



**TYPE II TFE ELASTOMERIC EXP. BRG.**  
(At Abuts.)



NOTE: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



**FIXED BEARING**  
(At Piers)

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
TFE Elasto. Exp. Brg. Type II	Each	24

**BEARING ASSEMBLY DETAILS**  
F.A.P. RT. 408 SEC. 75-1B-4  
PIKE COUNTY  
STA. 1234+30

**HSIONG ASSOCIATES LTD**  
DESIGNED: W.H. CHECKED: H.A.  
DRAWN: R.H.H. DATE: NO. 0000

*As Revised*

*As Revised 10-29-86 K.R.G.*

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

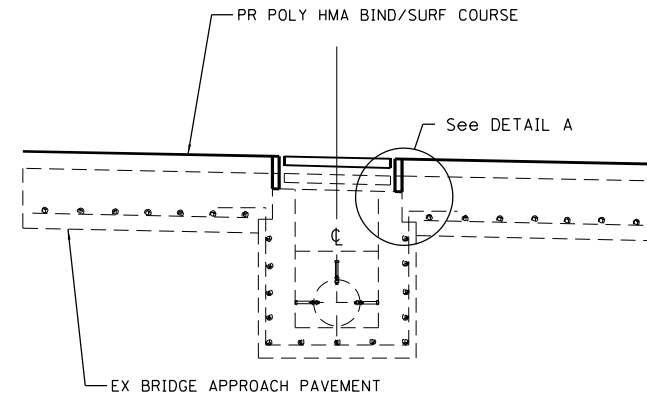
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**STRUCTURE NO. 075-0086 & 075-0087**

SHEET 15 OF 15 SHEETS

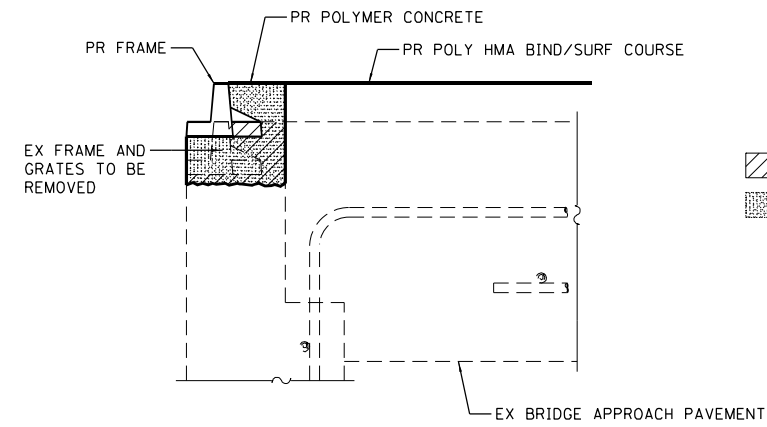
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72	*	PIKE	49	46
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

*ORIGINAL PLANS FOR INFORMATION ONLY*

\* (75-1B-(3,4)) BDR, BRR, BJR, BP



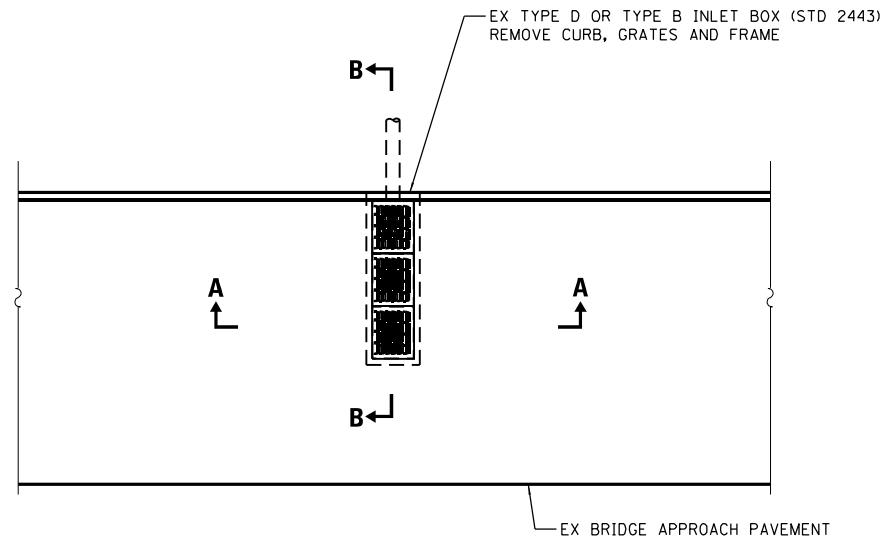
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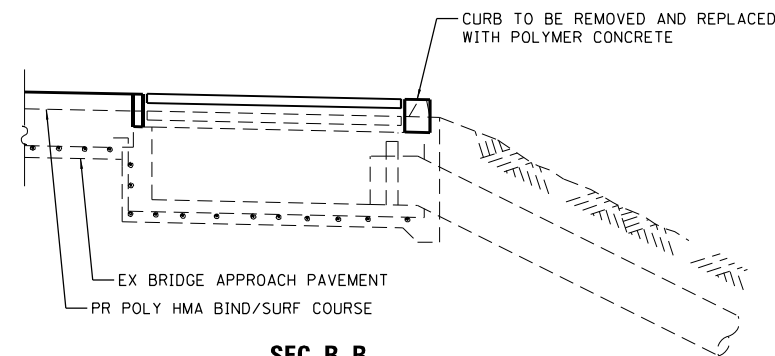
**DETAIL A**

**GENERAL NOTES**

THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW CAST FRAME AND CAST GRATES AS SPECIFIED ON STANDARD 610001 FOR THE TYPE F INLET BOX (OUTSIDE SHOULDERS) OR TYPE G INLET BOX (INSIDE SHOULDERS)



**PLAN**



**SEC. B-B**

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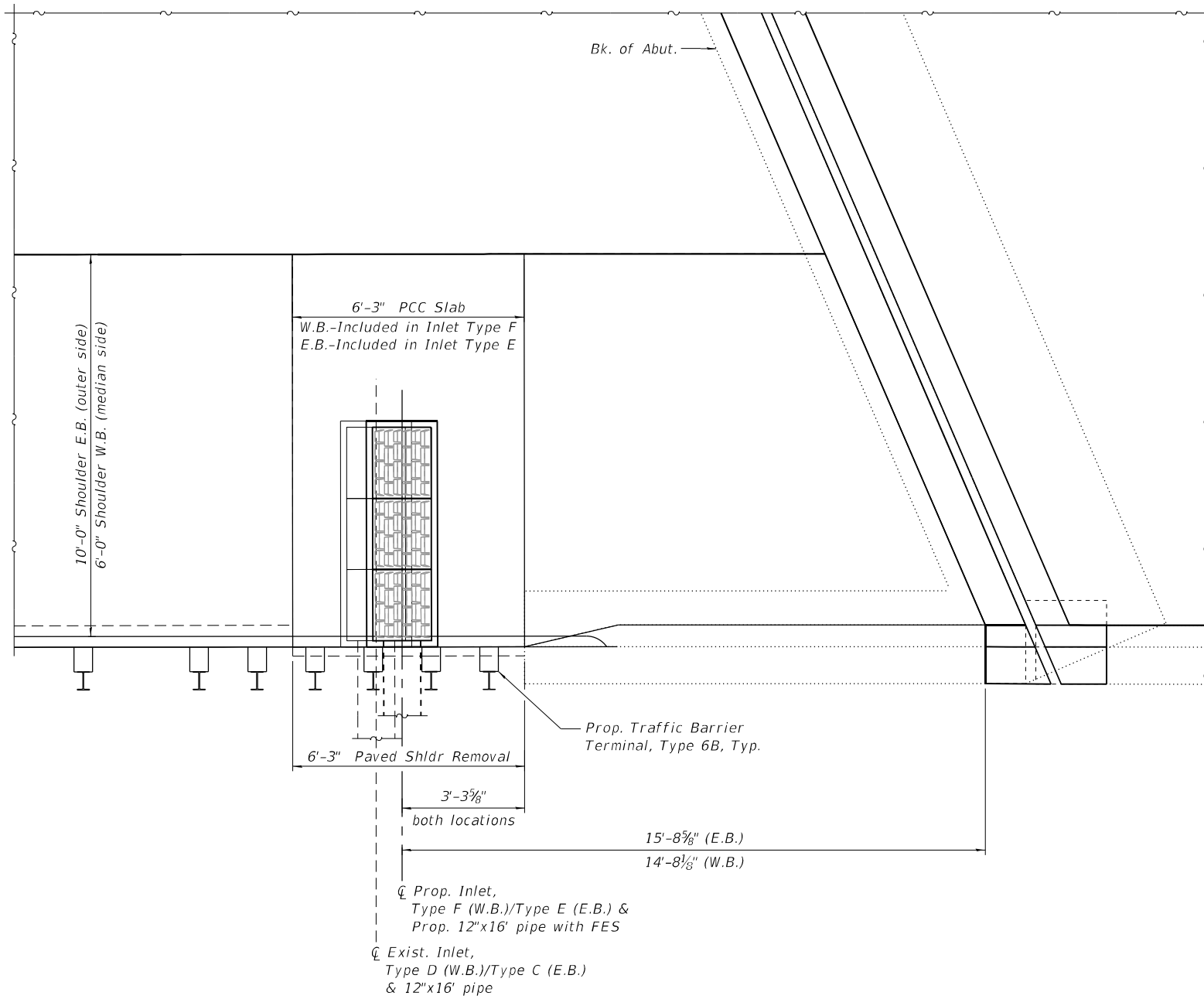
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INLET ADJUSTMENT DETAILS**

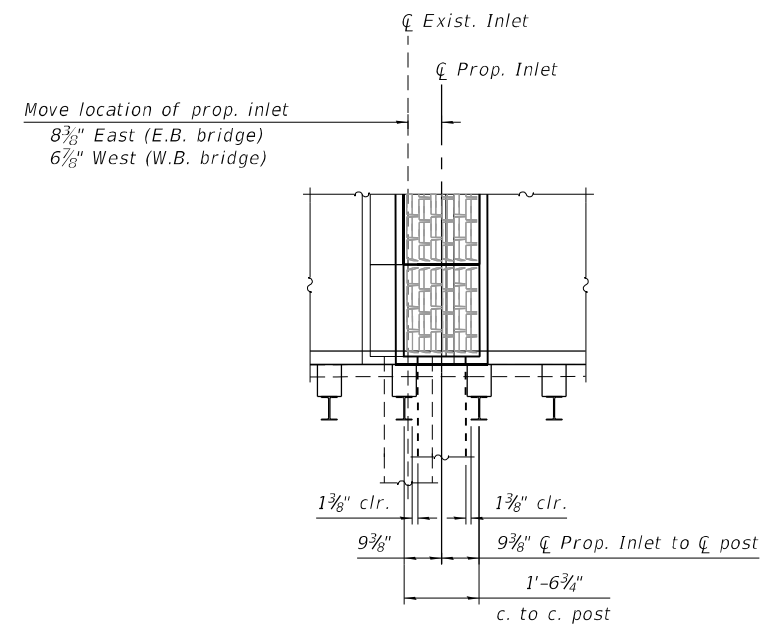
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3,4)) BDR, BRR, BJR, BP



**S.N. 075-0084 (E.B.) WEST APPROACH PLAN**  
 Note: Inlet location is similar for S.N. 075-0085 (W.B.) East Approach



**INLET DETAIL**  
 (Prop. Inlet location is similar for S.N. 075-0085)

- Notes:
- Any Proposed P.C.C. Slab placed within 5' of  $\bar{C}$  Inlet will be paid as incidental to Inlet Type E & F.
  - Resident Engineer to field verify location of proposed inlets to avoid conflicts with Proposed Traffic Barrier Terminal, Type 6B posts.
  - See Schedules sheets for quantities.
  - No curb allowed.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Paved Shoulder Removal	Sq. Yd.	11
Removing Inlets	Each	2

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**KUHN & TRELLO**  
 CONSULTING ENGINEERS  
 A Limited Liability Company  
 109 N. 7th Street, 3rd Floor  
 Springfield, IL 62702  
 Phone: 217-416-0214

USER NAME = myoung	DESIGNED - JLS	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

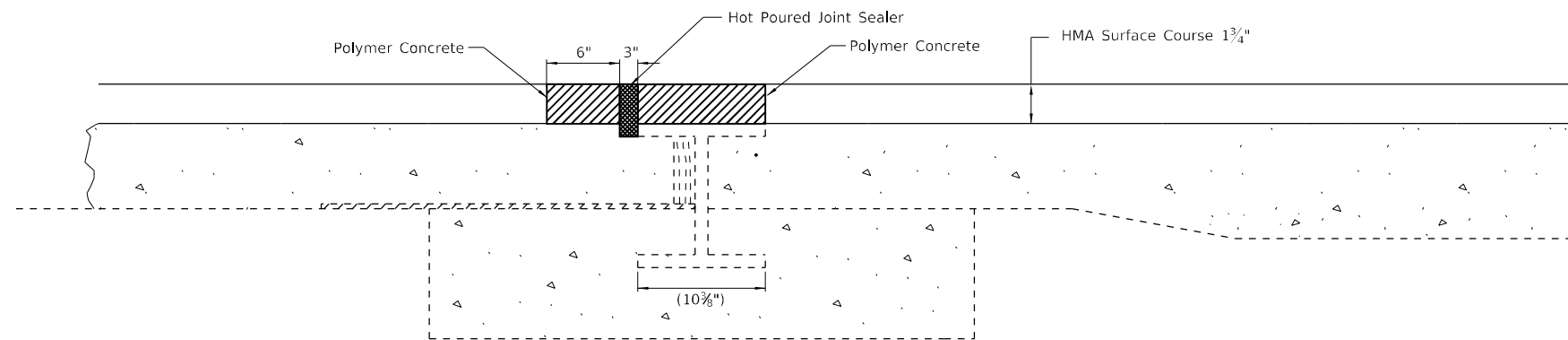
**APPROACH SLABS GUARDRAIL/INLET PLAN**  
**SN 075-0084 & SN 075-0085**

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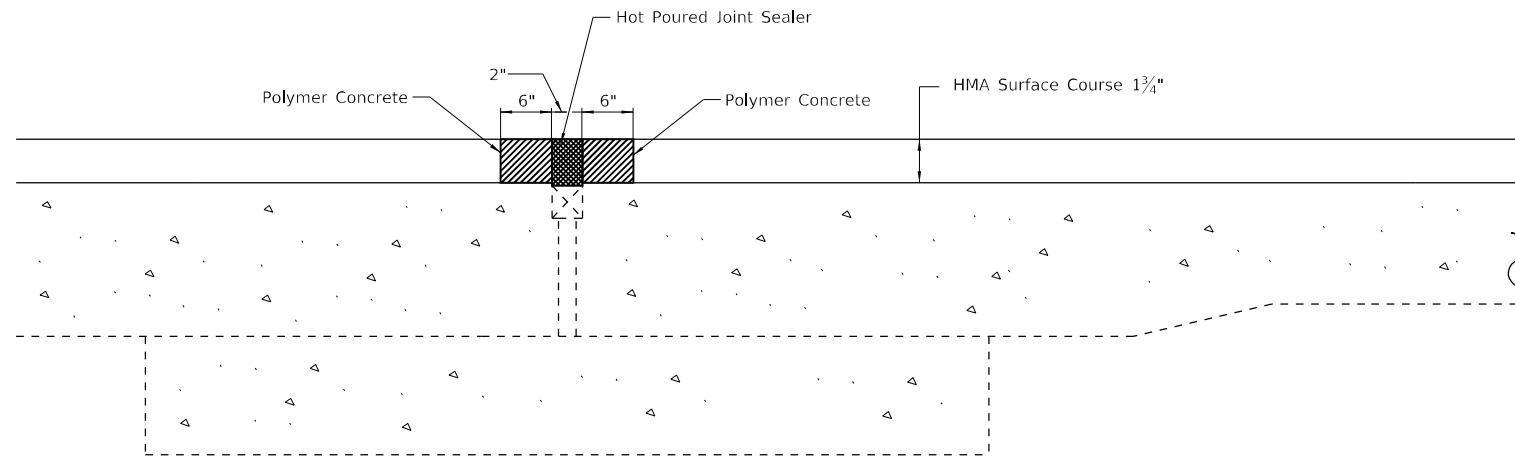
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72	*	PIKE	49	48
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3,4)) BDR, BRR, BJR, BP





WIDE FLANGE BEAM TERMINAL JOINT



PREFORMED JOINT SEAL TREATMENT  
(AT PREFORMED JOINT)

**NOTES:**

1. CONTRACTOR TO SURFACE OVER EXISTING WIDE FLANGE BEAM TERMINAL JOINT. UPON COMPLETION OF RESURFACING, CONTRACTOR TO SAW CUT HMA SURFACE AT THE EDGE OF THE BEAM AND AT THE EDGE OF THE EXPANSION AREA, AND REMOVE THE HMA MATERIAL, COST TO BE INCLUDED WITH THE COST FOR POLYMER CONCRETE.
2. CONTRACTOR TO BLOCK OUT EXPANSION AREA UP TO THE EDGE OF THE BEAM PRIOR TO PLACING POLYMER CONCRETE. BLOCK OUT TO BE REMOVED ONCE THE POLYMER CONCRETE HAS SUFFICIENTLY CURED.
3. CONTRACTOR IS TO NOTE LOCATION OF BEAM AND EXPANSION AREA PRIOR TO RESURFACING TO ALLOW EDGES OF THE BEAM TO BE IDENTIFIED FOR SAW CUT LOCATION.
4. HOT Poured JOINT SEALER SHALL BE PLACED IN THE GAP BETWEEN THE POLYMER CONCRETE NOSING AT THE WIDE FLANGE BEAM. COST TO BE INCLUDED WITH OTHER HMA RESURFACING ITEMS.
5. THE SURFACE PREPARATION OF THE BEAM IS DETAILED IN THE RECURRING SPECIAL FOR POLYMER CONCRETE, AND IS COVERED IN THE COST OF POLYMER CONCRETE.
6. CONTRACTOR TO SURFACE OVER EXISTING PREFORMED JOINT SEALER. UPON COMPLETION OF RESURFACING, CONTRACTOR IS TO SAW CUT AT THE EDGE OF THE PJS AND REMOVE THE HMA MATERIAL, COST TO BE INCLUDED WITH HMA RESURFACING ITEMS.
7. CONTRACTOR TO PLACE HOT Poured JOINT SEALER PER STANDARD SPECIFICATION 1050.02 OVER PJS, COST TO BE INCLUDED WITH OTHER HMA RESURFACING ITEMS.
8. CONTRACTOR IS TO NOTE LOCATION OF PREFORMED JOINT SEAL PRIOR TO RESURFACING TO ALLOW EDGES TO BE IDENTIFIED FOR SAW CUT LOCATION.

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 Professional Design Firm No. 184-006516



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	DRAWN - MMY/LS	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - MJT	REVISED -
PLOT DATE = 8/24/2022	DATE - 06/22/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**JOINT DETAILS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	PKIE	49	49
CONTRACT NO. 72N49				
ILLINOIS FED. AID PROJECT				

\* (75-1B-(3.4)) BDR, BRR, BJR, BP