

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(8BR-6)BDR	SANGAMON	10	1
		ILLINOIS	CONTRACT NO. 72044	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

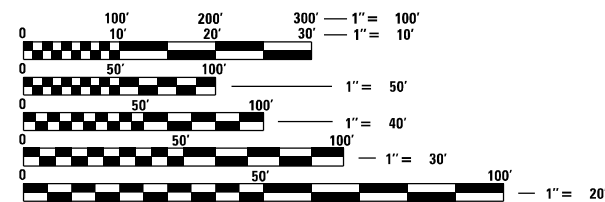
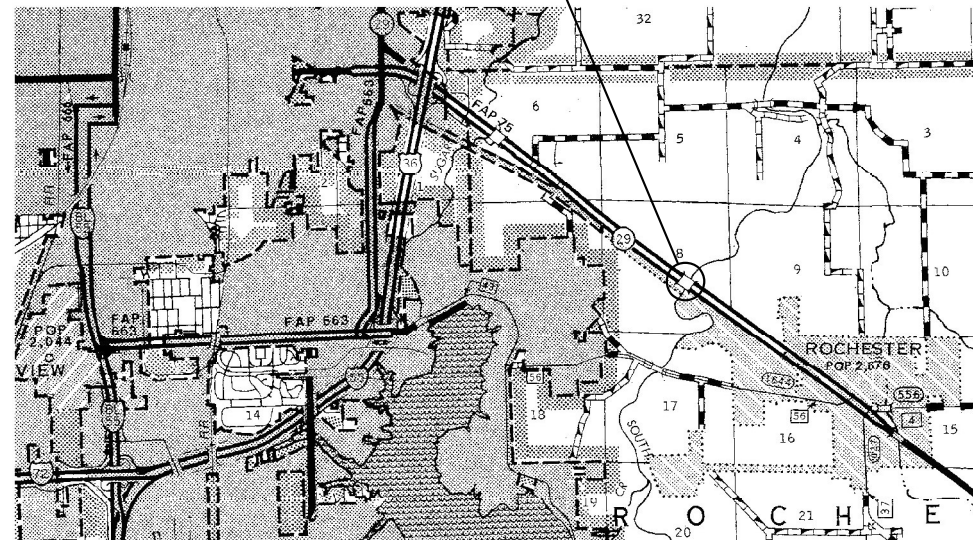
PROPOSED CONTRACT MAINTENANCE

FAP ROUTE 75 (IL 29)
SECTION (8BR-6)BDR
PROJECT (STATE ONLY)
BRIDGE DECK REPAIRS
SANGAMON COUNTY

C-96-083-22



PROJECT LOCATION
SN 084-0043
IL 29 SB OVER
S FORK SANGAMON R
2.4 MI SE I-55



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

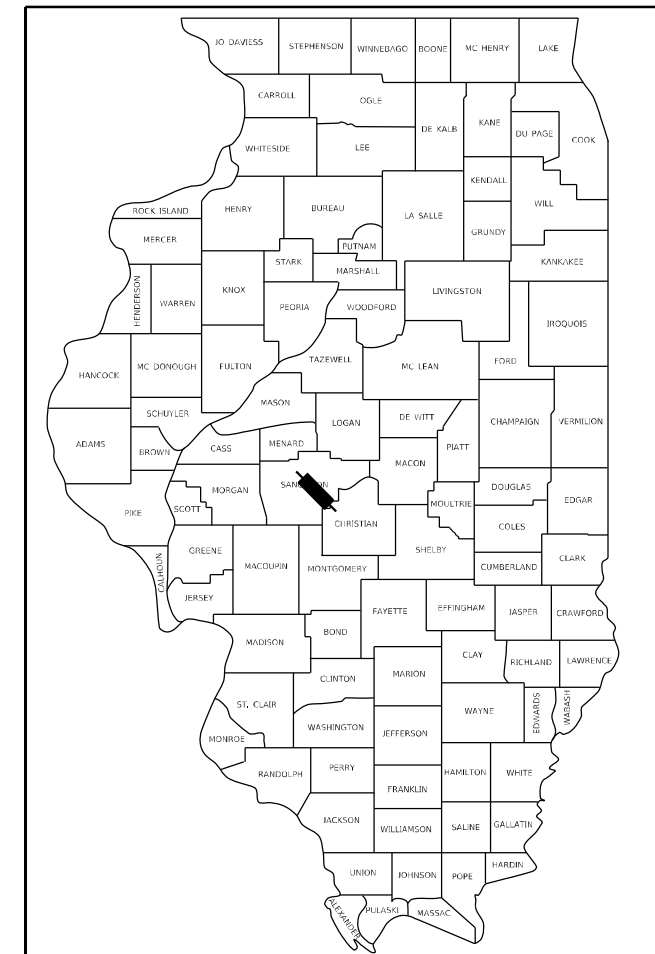
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY - (217) 785-9290

GROSS LENGTH = 413 FT. = 0.08 MILE
NET LENGTH = 413 FT. = 0.08 MILE

CONTRACT NO. 72044

D-96-065-22



LOCATION OF SECTION INDICATED THIS: - [thick black line] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 22, 2023
[Signature] REGIONAL ENGINEER
May 12, 2023 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
May 12, 2023 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS




- 1 COVER SHEET
- 2 INDEX, STANDARDS, SIGNATURES, & GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 STAGING PLAN
- 5-6 TRAFFIC CONTROL PLAN
- 7-10 SN 084-0043 BRIDGE PLANS

STANDARDS

- 000001-08
- 001001-02
- 001006
- 701101-05
- 701106-02
- 701423-10
- 701901-08
- 704001-08
- 780001-05
- 782006-01

GENERAL NOTES:

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6	
EXAMINED	March, 17 20 23
 ENGINEER OF OPERATIONS	
EXAMINED	March, 21 20 23
 ENGINEER OF PROJECT IMPLEMENTATION	
EXAMINED	March, 21 20 23
 ENGINEER OF PROGRAM DEVELOPMENT	

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	USER NAME = Brandon.Dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX, STANDARDS, GENERAL NOTES, & SIGNATURES	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			75	(8BR-6)BDR	SANGAMON	10	2				CONTRACT NO. 72044			
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -									ILLINOIS		FED. AID PROJECT			
	PLOT DATE = 3/22/2023	DATE -	REVISED -														

0-02178-6004
SN 084-0043
100% STATE

0-02178-6004
SN 084-0043
100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE/URBAN
				0047 SANGAMON
50102400	CONCRETE REMOVAL	CU YD	0.1	0.1
50300300	PROTECTIVE COAT	SQ YD	170	170
67100100	MOBILIZATION	L SUM	1	1
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	1	1
70107025	CHANGEABLE MESSAGE SIGNS	CAL DAY	60	60
70400100	TEMPORARY CONCRETE BARRIER	FOOT	675	675
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	675	675
70600251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
70600352	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	1500	1500
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	625	625
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	6	6
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5	5

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE/URBAN
				0047 SANGAMON
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	159	159
Z0021904	SILICONE JOINT SEALER, 1"	FOOT	36	36
Z0021907	SILICONE JOINT SEALER, 1.75"	FOOT	36	36
Z0021914	SILICONE JOINT SEALER, 2.75"	FOOT	36	36
Z0021916	SILICONE JOINT SEALER, 3"	FOOT	36	36
Z0032500	JOINT SEALING (PATCHES)	FOOT	1340	1340
Z0041895	POLYMER CONCRETE	CU FT	6	6

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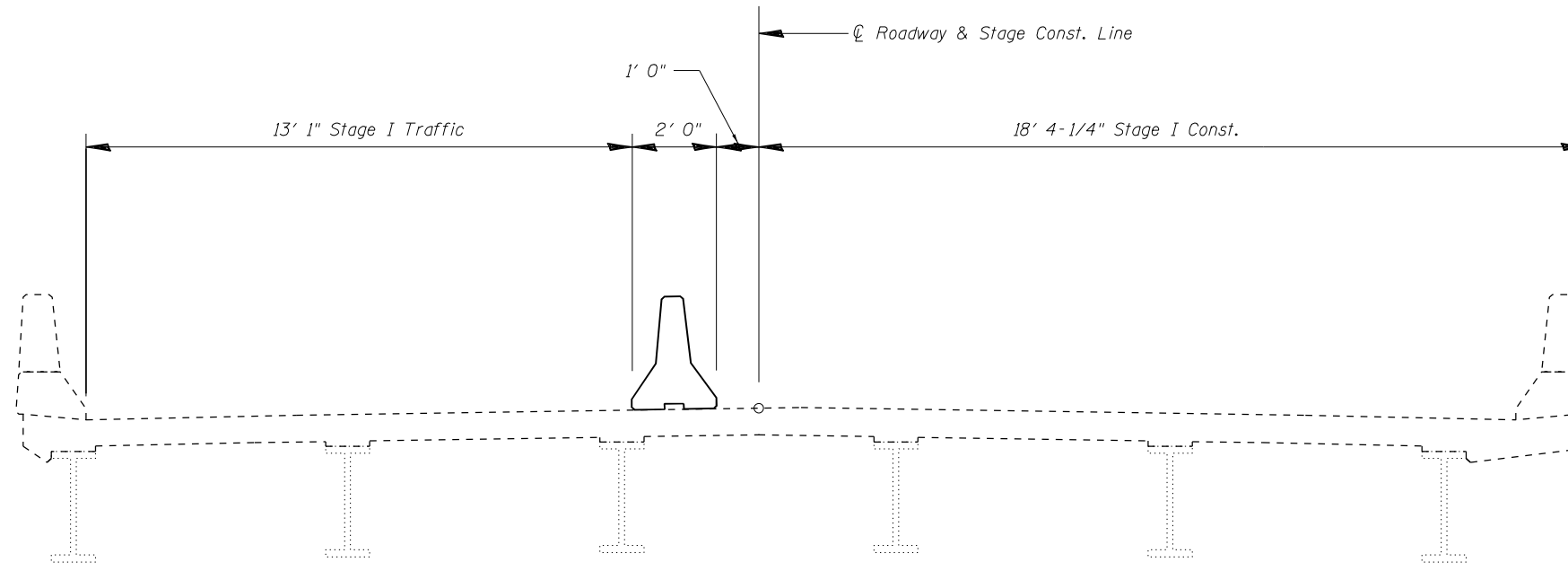
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

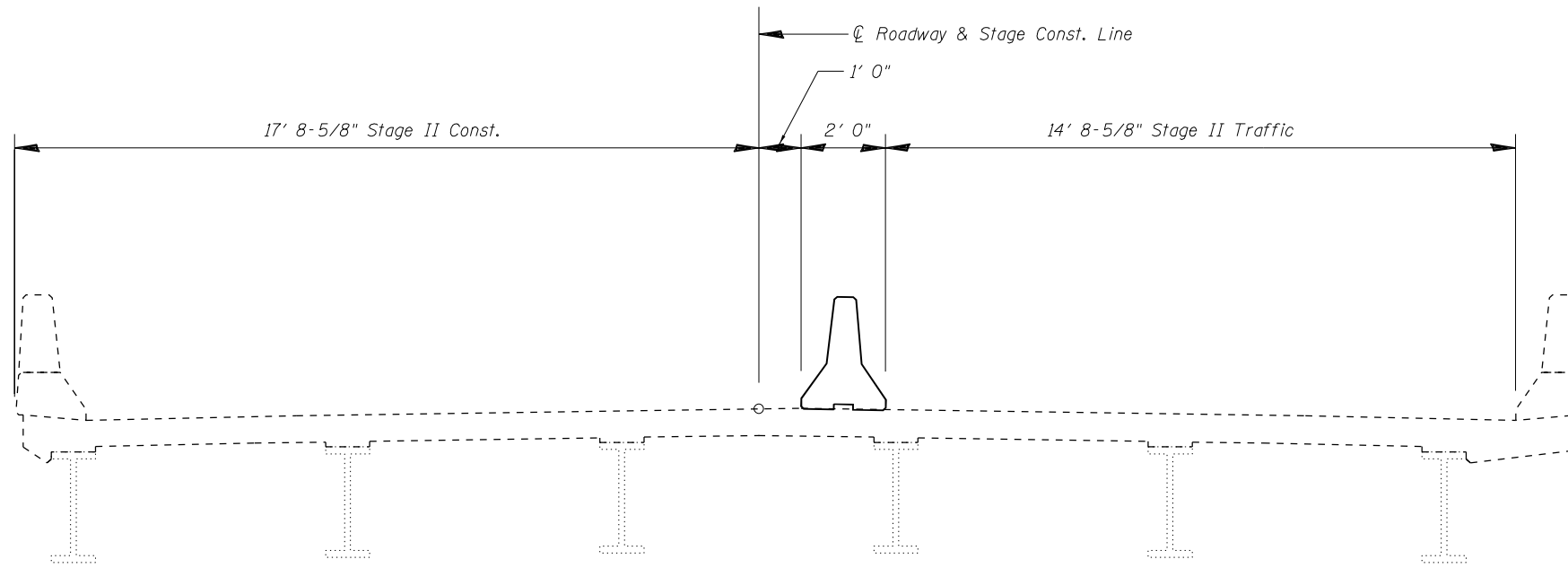
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(8BR-6)BDR	SANGAMON	10	3
			CONTRACT NO. 72044	
ILLINOIS FED. AID PROJECT				



STAGE I CROSS SECTION
(Looking East)



STAGE II CROSS SECTION
(Looking East)

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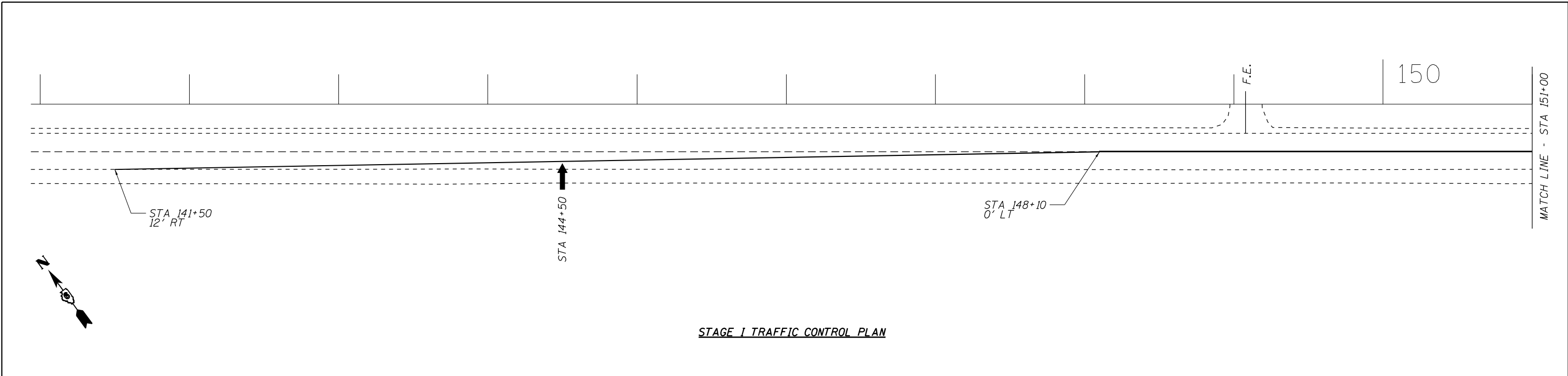
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

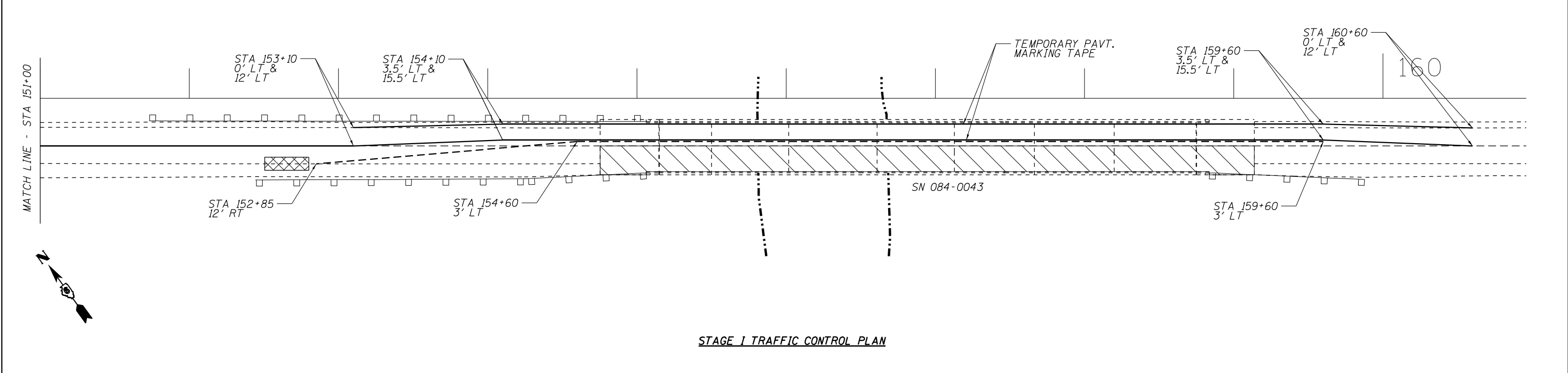
TRAFFIC STAGING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(8BR-6)BDR	SANGAMON	10	4
CONTRACT NO. 72044				
ILLINOIS FED. AID PROJECT				


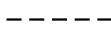




STAGE I TRAFFIC CONTROL PLAN



STAGE I TRAFFIC CONTROL PLAN

SYMBOLS

-  WORK AREA
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  ARROW BOARD

TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701423. DEVICES AND TEMPORARY PAVEMENT MARKINGS SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701423. IMPACT ATTENUATORS, AND TEMPORARY CONCRETE BARRIER SHALL BE PAID SEPARATELY.
2. LEFT AND RIGHT OFFSETS SHOWN SHALL REFER TO DISTANCES FROM THE CENTERLINE OF THE NORTHBOUND TRAFFIC LANES, NOT THE IL 29 CENTERLINE.
3. TEMPORARY CONCRETE BARRIER OFFSETS GIVEN IN THIS DETAIL REFER TO THE EDGE OF THE BARRIER NEAREST TO LIVE TRAFFIC. BARRIER WALL TAPERS SHALL BE 12:1 UNLESS OTHERWISE NOTED.

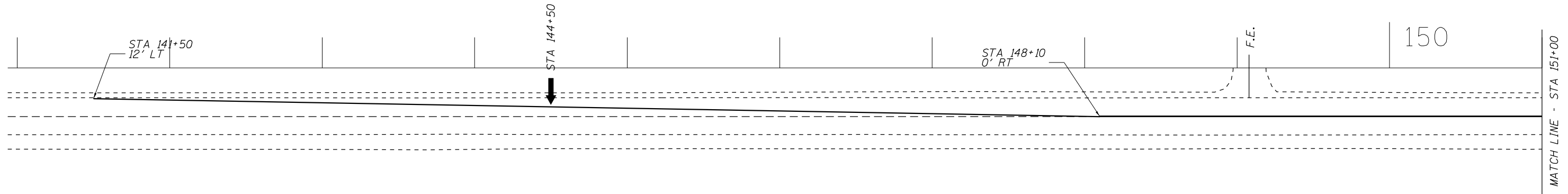
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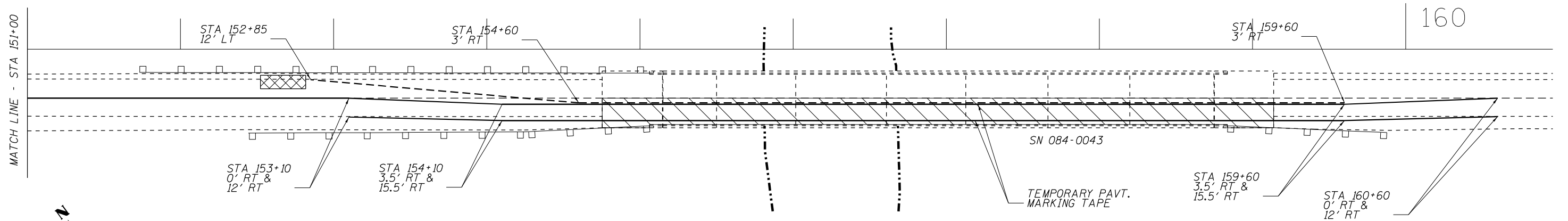
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(8BR-6)BDR	SANGAMON	10	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72044	


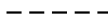




STAGE II TRAFFIC CONTROL PLAN



STAGE I TRAFFIC CONTROL PLAN

SYMBOLS

-  WORK AREA
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  ARROW BOARD

TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701423. DEVICES AND TEMPORARY PAVEMENT MARKINGS SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701423. IMPACT ATTENUATORS, AND TEMPORARY CONCRETE BARRIER SHALL BE PAID SEPARATELY.
2. LEFT AND RIGHT OFFSETS SHOWN SHALL REFER TO DISTANCES FROM THE CENTERLINE OF THE NORTHBOUND TRAFFIC LANES, NOT THE IL 29 CENTERLINE.
3. TEMPORARY CONCRETE BARRIER OFFSETS GIVEN IN THIS DETAIL REFER TO THE EDGE OF THE BARRIER NEAREST TO LIVE TRAFFIC. BARRIER WALL TAPERS SHALL BE 12:1 UNLESS OTHERWISE NOTED.

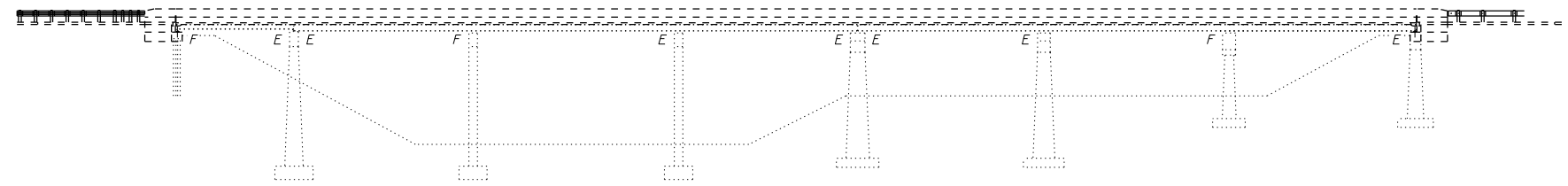
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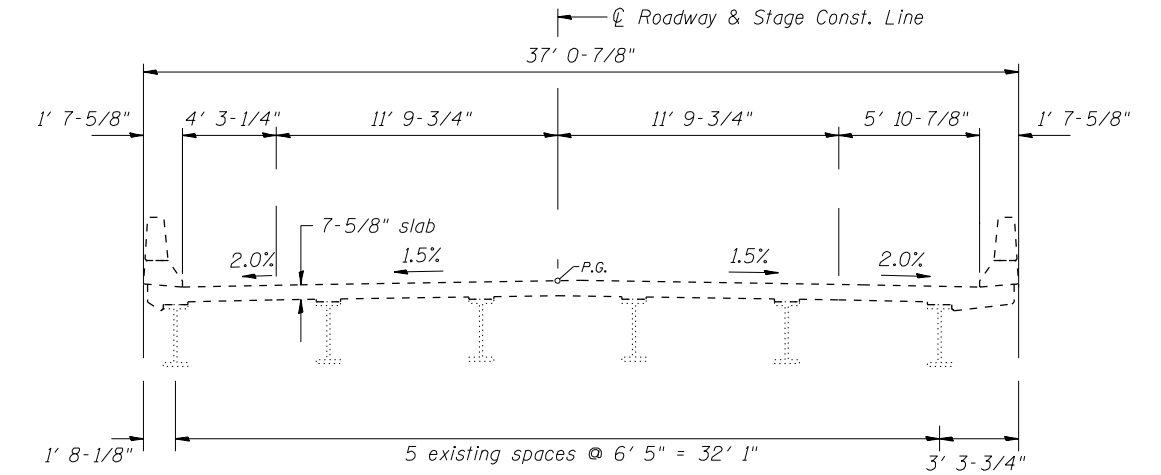
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL PLAN	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(8BR-6)BDR	SANGAMON	10	6
CONTRACT NO. 72044				
ILLINOIS FED. AID PROJECT				

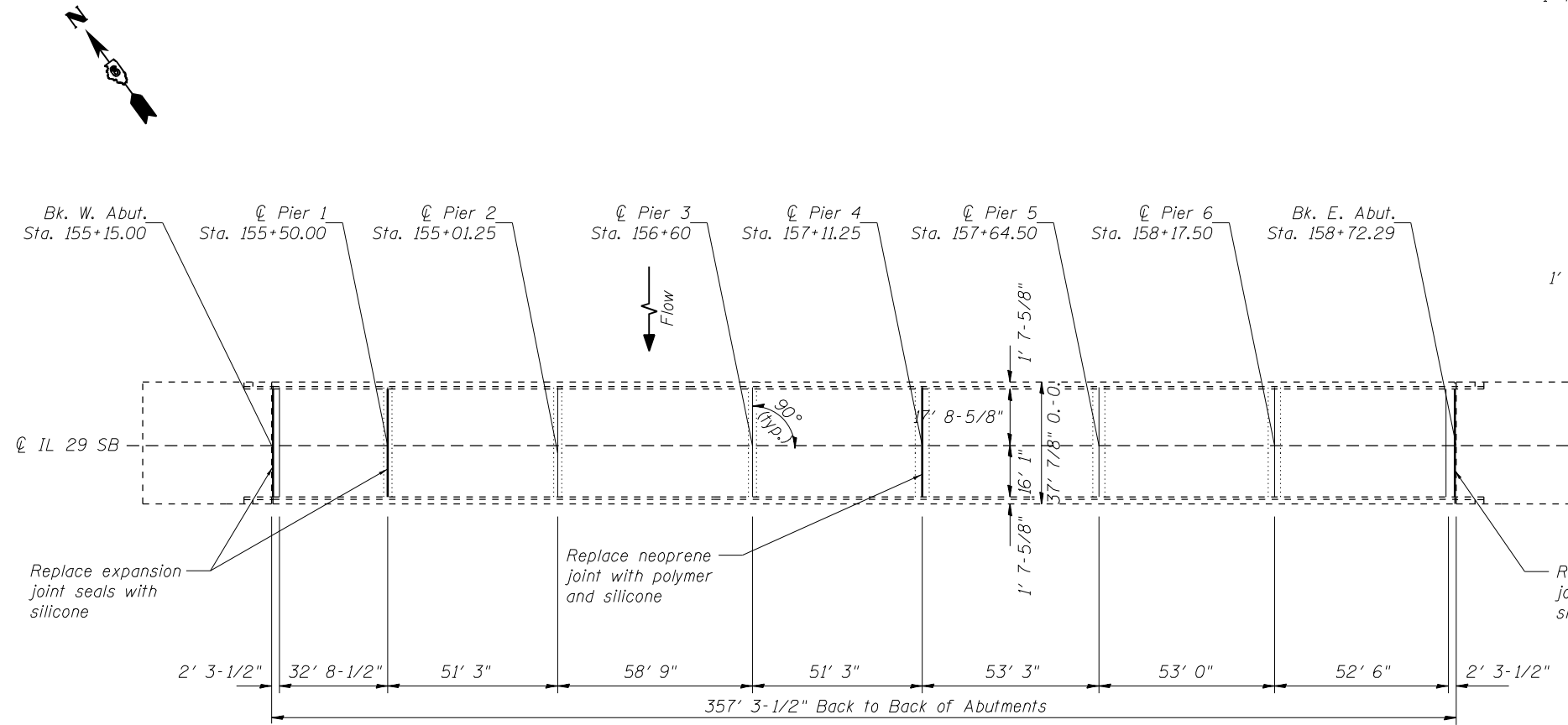


ELEVATION

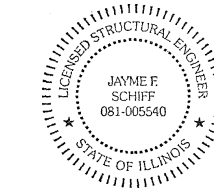


CROSS SECTION

(Looking East)



PLAN



EXPIRES 11-30-2024

Jayme F. Schiff

TOTAL BILL OF MATERIAL (084-0043)

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq. Yd.	159
Approach Slab Repair (Partial Depth)	Sq. Yd.	6
Deck Slab Repair (Full Depth, Type II) *	Sq. Yd.	5*
Joint Sealing (Patches)	Foot	1340
Concrete Removal	Cu. Yd.	0.1
Polymer Concrete	Cu. Ft.	6
Silicone Joint Sealer, 1"	Foot	36
Silicone Joint Sealer, 1.75"	Foot	36
Silicone Joint Sealer, 2.75"	Foot	36
Silicone Joint Sealer, 3"	Foot	36
Protective Coat	Sq. Yd.	170

* No FD patches anticipated, nominal quantity included

STRUCTURE GENERAL NOTES:

PRIOR TO POURING THE NEW CONCRETE PATCHES, ALL HEAVY OR 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 CONCRETE REMOVAL.

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 THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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.

PROTECTIVE COAT SHALL BE APPLIED TO NEW CONCRETE ONLY.

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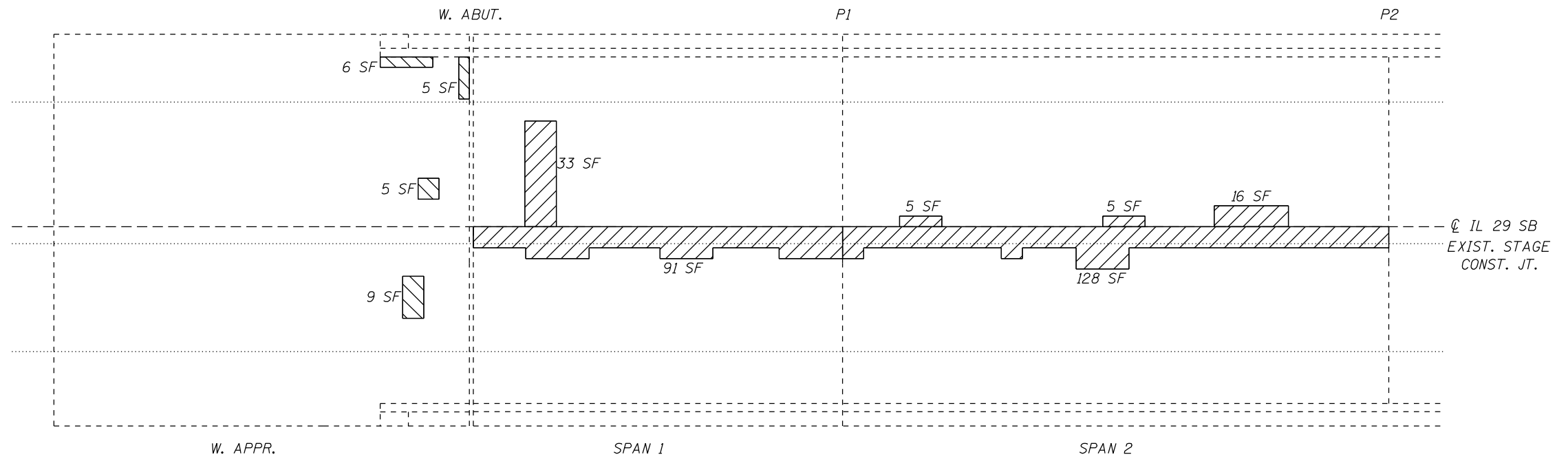
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PLOT DATE = 3/22/2023	DATE - 2/8/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

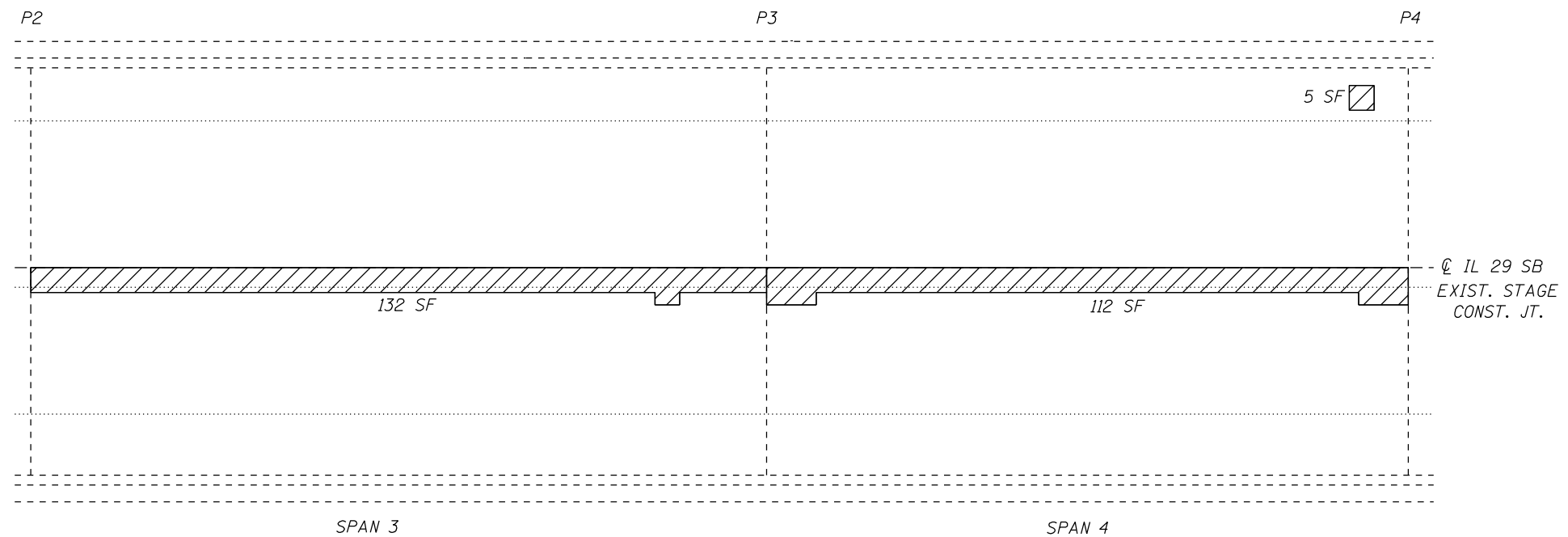
**BRIDGE PLAN & ELEVATION
SN 084-0043**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(8BR-6)BDR	SANGAMON	10	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72044	



PARTIAL DECK PLAN



PARTIAL DECK PLAN

PATCHING BILL OF MATERIAL (W. APPR. & SPANS 1-4)

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq. Yd.	59
Approach Slab Repair (Partial Depth)	Sq. Yd.	3
Joint Sealing (Patches)	Foot	500



APPROACH SLAB REPAIR (PARTIAL DEPTH)



DECK SLAB REPAIR (PARTIAL)

NOTES:

IDENTIFIED PATCHING LOCATIONS ARE ESTIMATED FROM A DECK SURVEY PERFORMED ON 12/1/2022. THE PATCHING SURVEY IS INCLUDED FOR INFORMATION ONLY. THE ENGINEER SHALL LAY OUT ACTUAL PATCH LOCATIONS IN THE FIELD.

THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

JOINT SEALING (PATCHES) SHALL BE APPLIED IN LOCATIONS AS DIRECTED IN THE SPECIAL PROVISIONS, ALONG THE ENTIRE LENGTH OF THE EXISTING STAGE CONSTRUCTION LINE, AND ALONG THE CONSTRUCTION JOINTS BETWEEN THE ABUTMENT AND APPROACHES.

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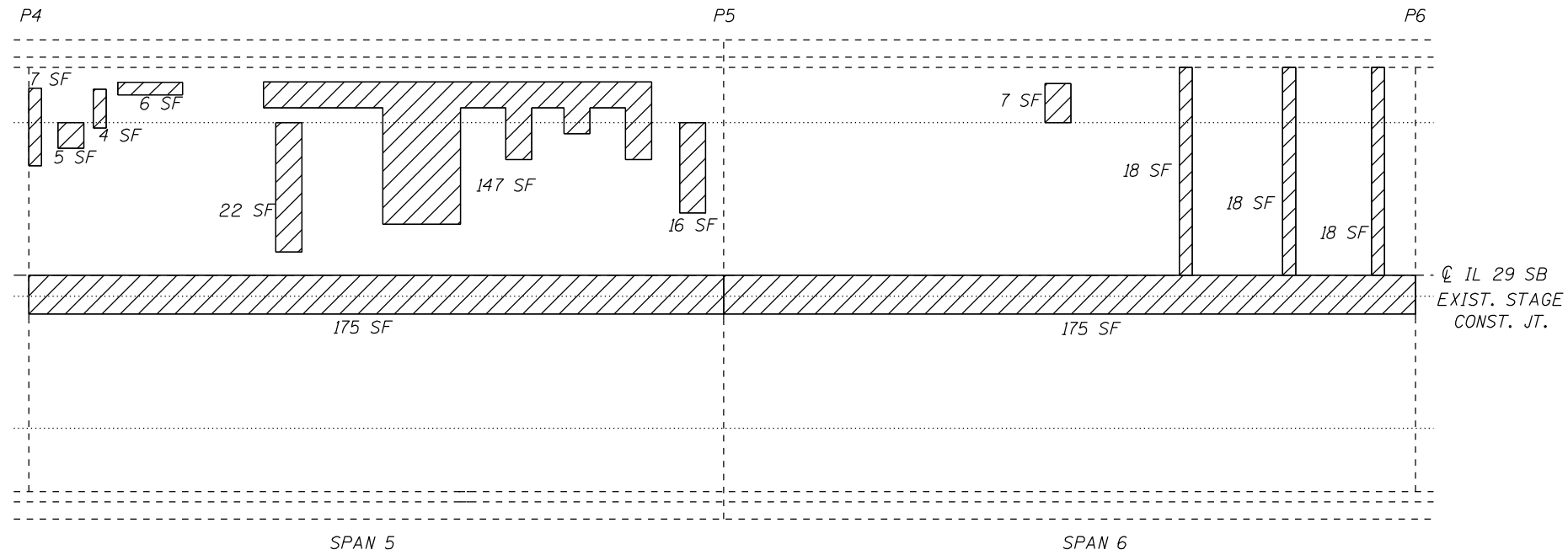
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

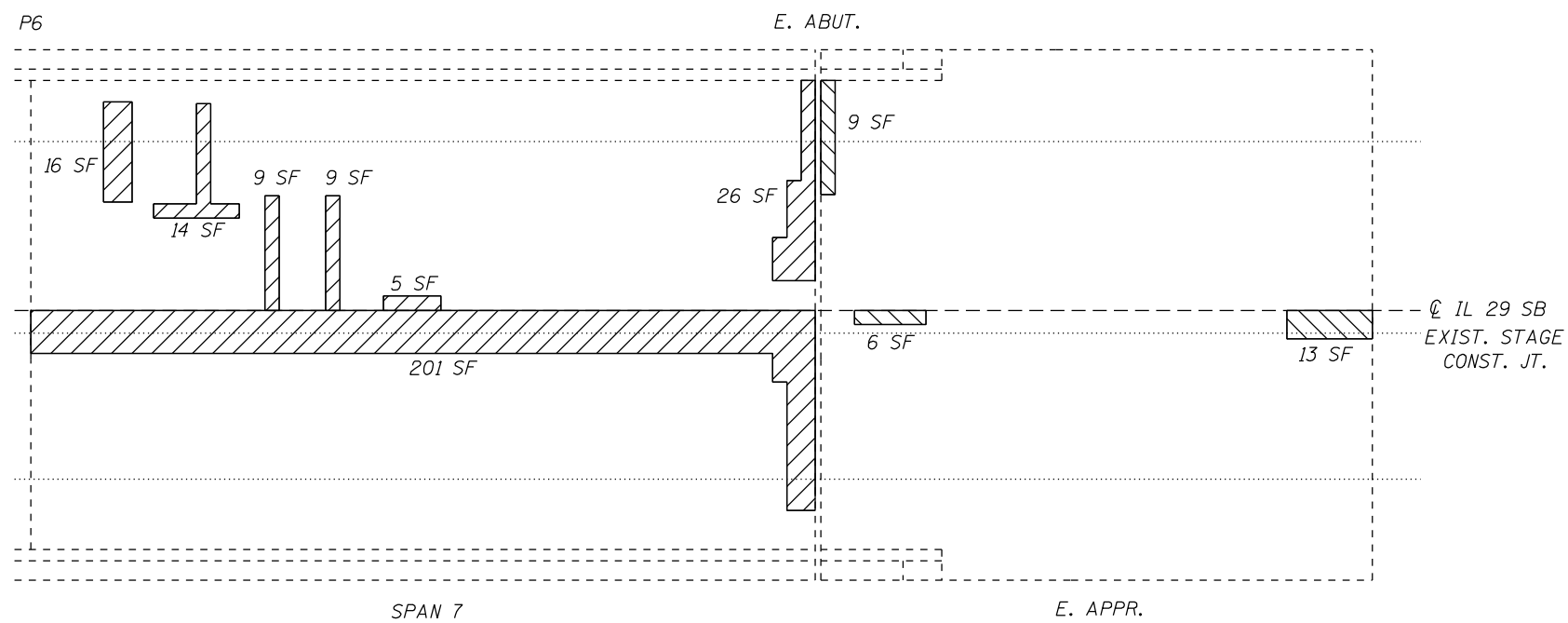
**SLAB REPAIR PLAN
SN 084-0043**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(8BR-6)BDR	SANGAMON	10	8
			CONTRACT NO. 72044	
ILLINOIS FED. AID PROJECT				



PARTIAL DECK PLAN



PARTIAL DECK PLAN

PATCHING BILL OF MATERIAL (E. APPR. & SPANS 5-7)

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq. Yd.	100
Approach Slab Repair (Partial Depth)	Sq. Yd.	3
Joint Sealing (Patches)	Foot	840



APPROACH SLAB REPAIR (PARTIAL DEPTH)



DECK SLAB REPAIR (PARTIAL)

NOTES:

IDENTIFIED PATCHING LOCATIONS ARE ESTIMATED FROM A DECK SURVEY PERFORMED ON 12/1/2022. THE PATCHING SURVEY IS INCLUDED FOR INFORMATION ONLY. THE ENGINEER SHALL LAY OUT ACTUAL PATCH LOCATIONS IN THE FIELD.

THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

JOINT SEALING (PATCHES) SHALL BE APPLIED IN LOCATIONS AS DIRECTED IN THE SPECIAL PROVISIONS, ALONG THE ENTIRE LENGTH OF THE EXISTING STAGE CONSTRUCTION LINE, AND ALONG THE CONSTRUCTION JOINTS BETWEEN THE ABUTMENT AND APPROACHES.

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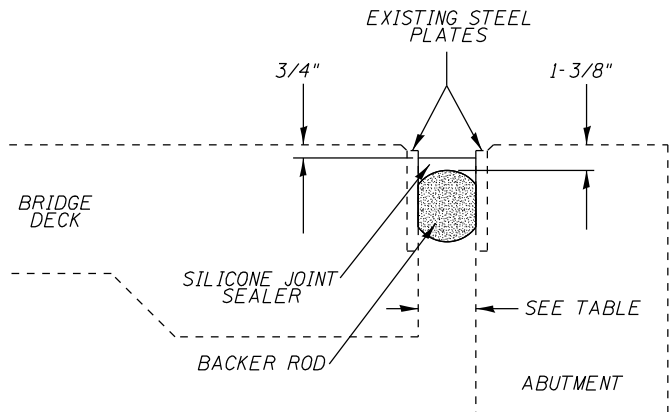
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

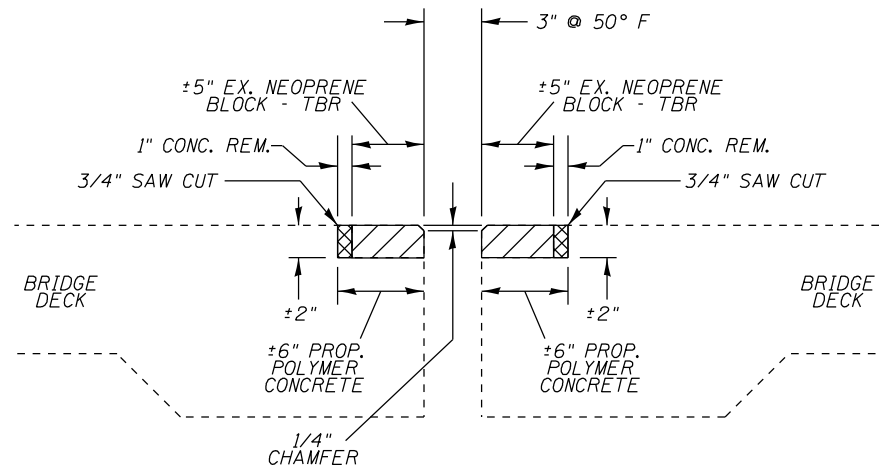
**SLAB REPAIR PLAN
SN 084-0043**

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

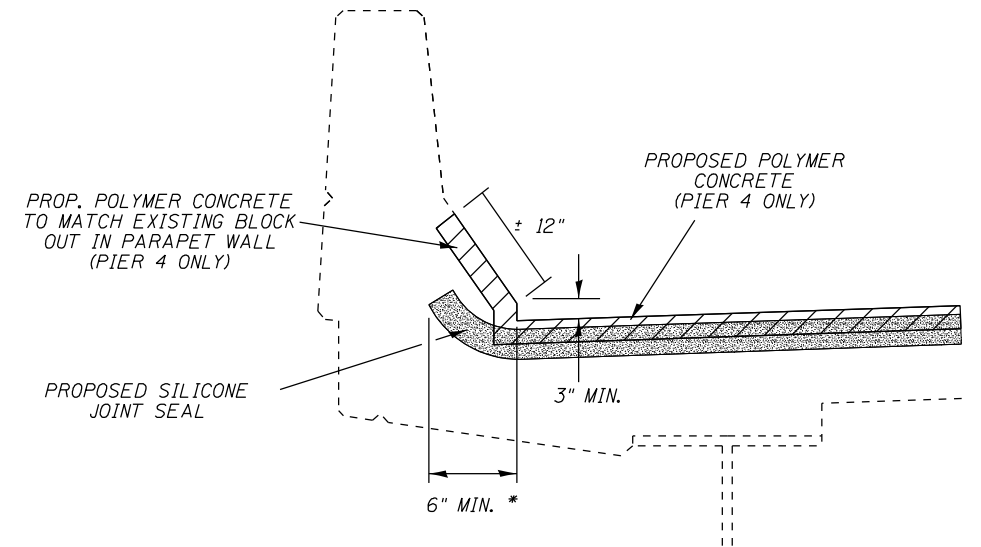
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(8BR-6)BDR	SANGAMON	10	9
			CONTRACT NO. 72044	
ILLINOIS FED. AID PROJECT				



TYPICAL JOINT CROSS SECTION:
JOINT SEALER APPLICATION



PIER 4 JOINT CROSS SECTION
PROPOSED POLYMER CONCRETE



TYPICAL PARAPET CROSS SECTION:
JOINT SEALER END TREATMENT

NOTES:

- 1/4" CHAMFER MAY BE ACHIEVED BY GRINDING AFTER POLYMER CONCRETE HAS CURED.
- REMOVAL OF EXISTING NEOPRENE EXPANSION JOINTS SHALL BE INCLUDED IN THE COST OF CONCRETE REMOVAL.
- ANY STEEL ANCHORING STUDS ENCOUNTERED IN THE NEOPRENE JOINT REMOVAL AREA SHALL BE CUT OFF FLUSH WITH THE EXISTING CONCRETE, COST TO BE INCLUDED IN THE BID PRICE FOR CONCRETE REMOVAL.
- JOINT WIDTHS SPECIFIED IN PLANS ARE AT 50° F. THE CONTRACTOR SHALL INSTALL BACKER ROD HAVING A DIAMETER 25% GREATER THAN THE JOINT OPENING AT THE TIME OF INSTALLATION.

BILL OF MATERIAL (4 JOINTS)

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	0.1
Polymer Concrete	Cu. Ft.	6
Silicone Joint Sealer, 1"	Foot	36
Silicone Joint Sealer, 1.75"	Foot	36
Silicone Joint Sealer, 2.75"	Foot	36
Silicone Joint Sealer, 3"	Foot	36

JOINT INFORMATION TABLE		
JOINT	SCOPE OF WORK	JOINT WIDTH @ 50° F
W. ABUT.	REPLACE JOINT SEAL WITH SILICONE	1"
P1	REPLACE JOINT SEAL WITH SILICONE	2-3/4"
P4	REPLACE NEOPRENE JOINT WITH POLYMER & SILICONE	3"
E ABUT.	REPLACE JOINT SEAL WITH SILICONE	1-3/4"

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PLOT DATE = 3/22/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPAIR DETAILS
SN 084-0043

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(8BR-6)BDR	SANGAMON	10	10
CONTRACT NO. 72044				
ILLINOIS FED. AID PROJECT				