

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

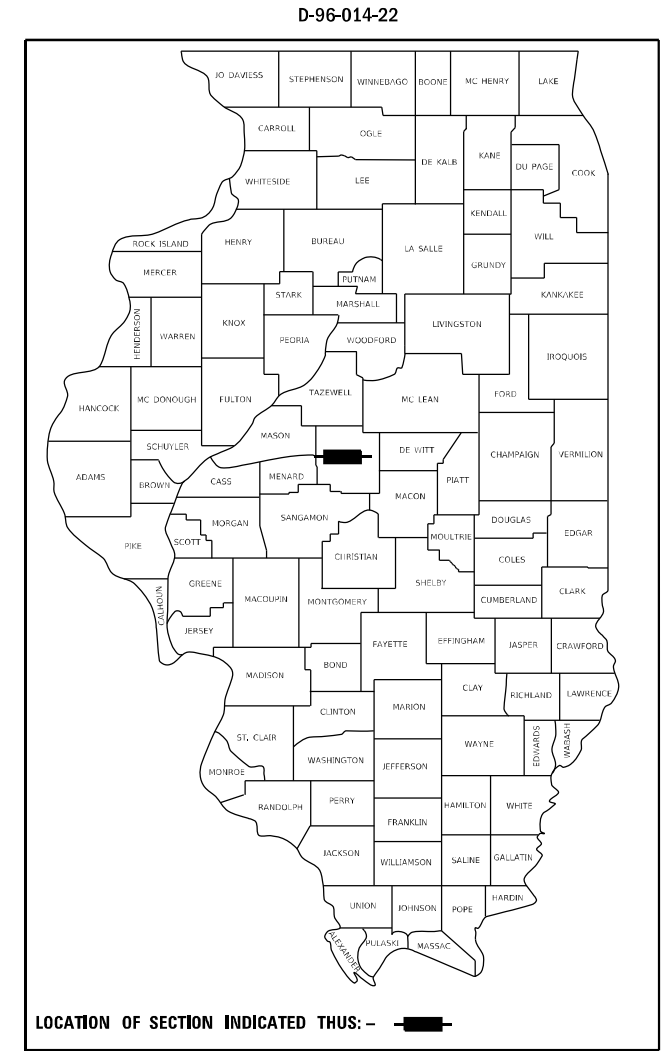
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(103B-1)BDR	LOGAN	7	1
		ILLINOIS	CONTRACT NO. 72N37	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

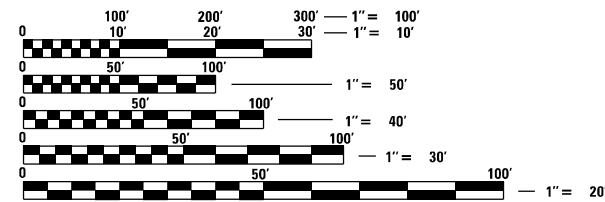
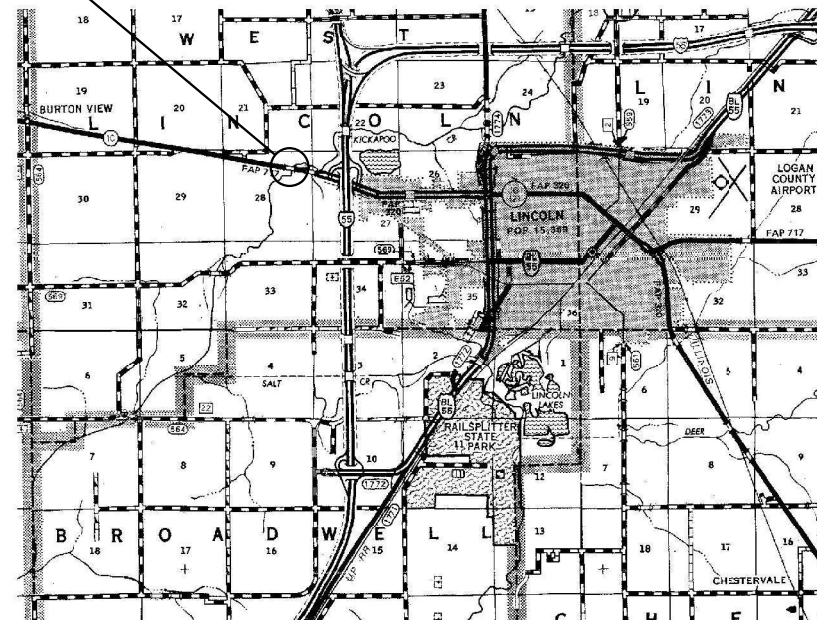
# PROPOSED CONTRACT MAINTENANCE

FAP ROUTE 717 (IL 10)  
SECTION (103B-1)BDR  
PROJECT (STATE)  
BRIDGE DECK REPAIRS  
LOGAN COUNTY

C-96-018-22



PROJECT LOCATION  
SN 054-0003  
IL 10 OVER KICKAPOO CR  
0.6 MI W OF 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 EXCAVATORS  
1-800-892-0123  
OR 811

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

GROSS LENGTH = 300 FT. = 0.06 MILE  
NET LENGTH = 300 FT. = 0.06 MILE

CONTRACT NO. 72N37

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 24, 2022

*John P. Meyer*  
REGIONAL ENGINEER

May 13, 2022 *John A. Etkin*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022 *Stephen M. ...*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

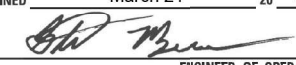


- 1 COVER SHEET
- 2 INDEX, STANDARDS, SIGNATURES, & GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 STAGING PLAN
- 5-7 SN 054-0003 BRIDGE PLANS

STANDARDS

- 000001-08
- 001001-02
- 001006
- 701001-02
- 701006-05
- 701201-05
- 701301-04
- 701316-13
- 701901-08

GENERAL NOTES:

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

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6</b>
EXAMINED <u>March 21</u> 20 <u>22</u>  ENGINEER OF OPERATIONS
EXAMINED <u>March 14</u> 20 <u>22</u>  ENGINEER OF PROJECT IMPLEMENTATION
EXAMINED <u>March 18</u> 20 <u>22</u>  ENGINEER OF PROGRAM DEVELOPMENT

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0-02176-6034

SN 054-0003

100% STATE

BRIDGE/RURAL

0047

LOGAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
50300300	PROTECTIVE COAT	SQ YD	51	51
67100100	MOBILIZATION	L SUM	1	1
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	14	14
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	12	12
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	65	65
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	39	39
Z0032500	JOINT SEALING (PATCHES)	FOOT	900	900

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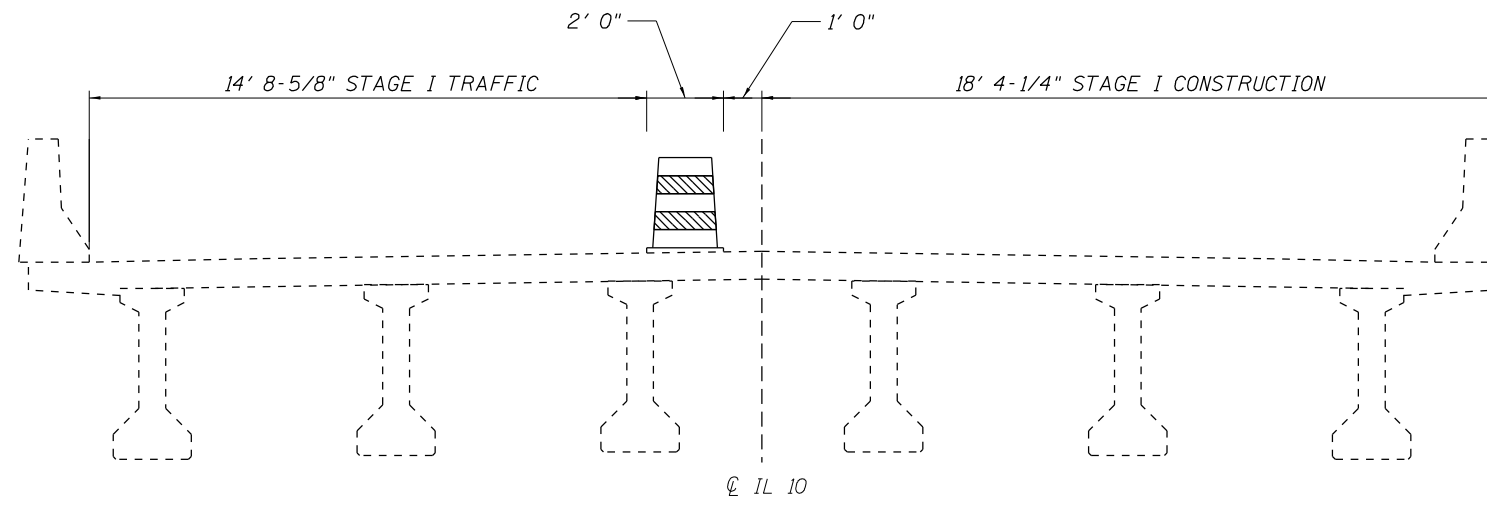
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

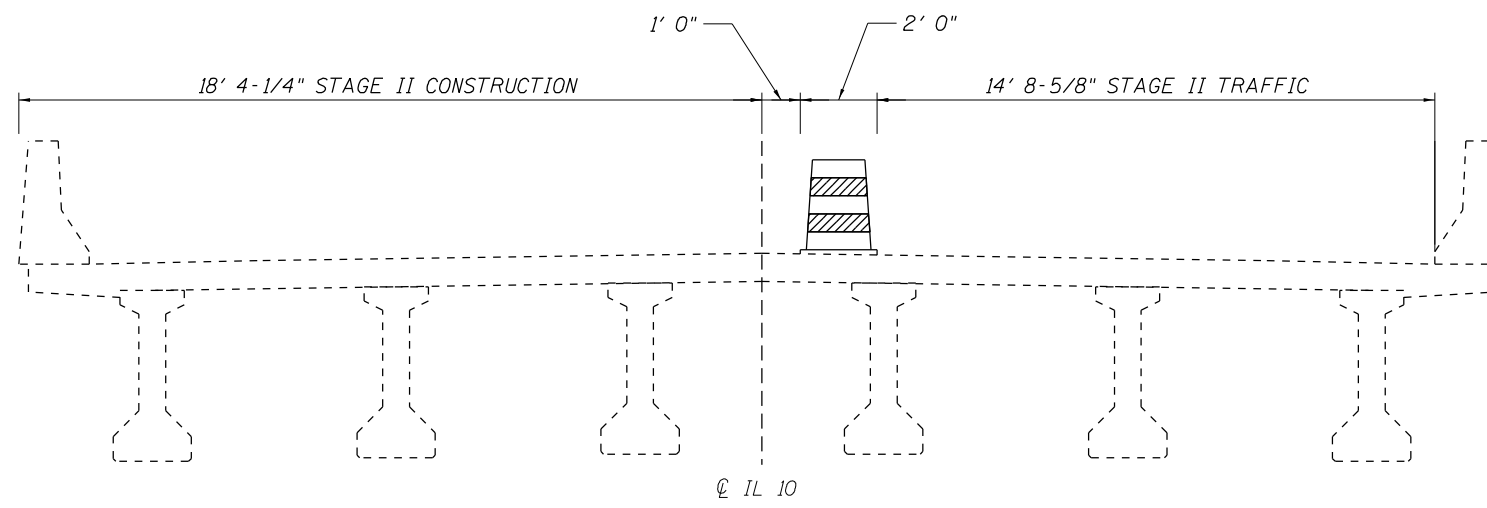
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(103B-1)BDR	LOGAN	7	3
			CONTRACT NO. 72N37	
		ILLINOIS	FED. AID PROJECT	



**STAGE I TRAFFIC, LOOKING EAST**



**STAGE II TRAFFIC, LOOKING EAST**

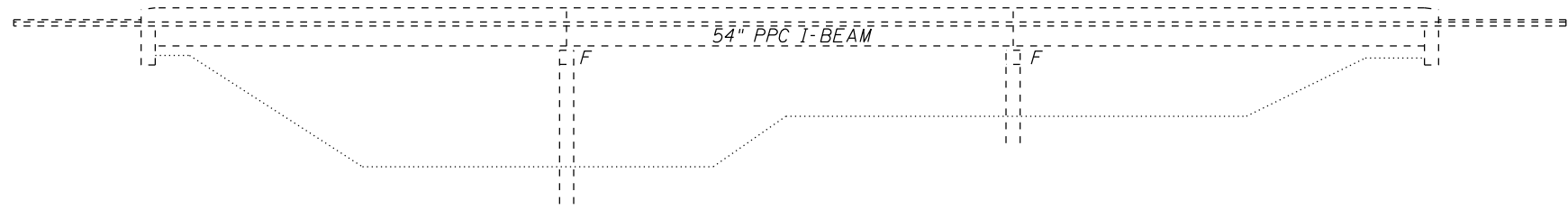
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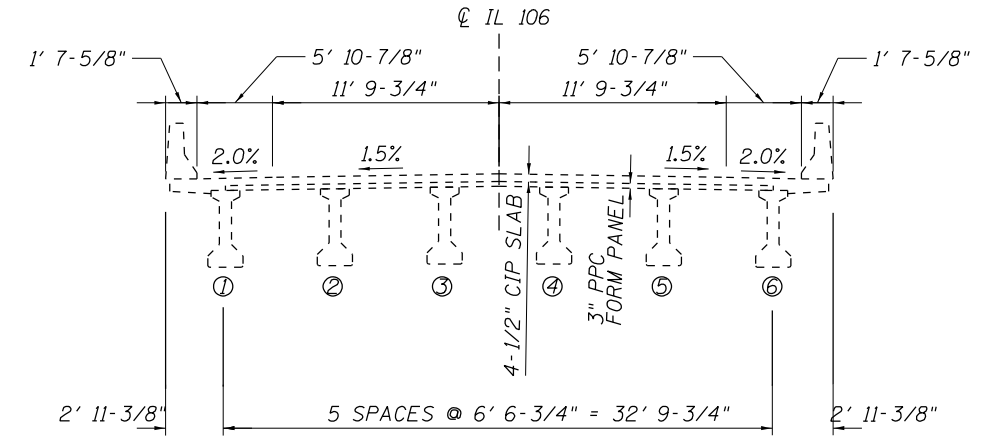
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC STAGING DETAIL</b>	
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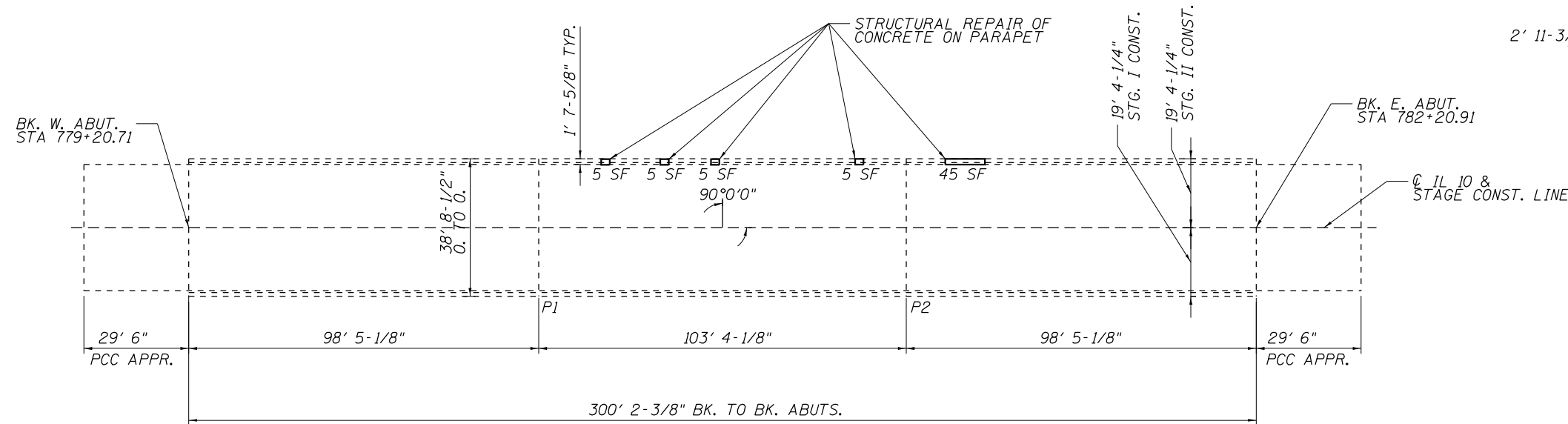
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717	(103B-1)BDR	LOGAN	7	4
CONTRACT NO. 72N37			ILLINOIS FED. AID PROJECT	



**ELEVATION**



**CROSS SECTION - LOOKING EAST**



**PLAN**



Expires 11/30/2022

*Jayme F. Schiff*

**TOTAL BILL OF MATERIAL (054-0003)**

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq. Yd.	39
Approach Slab Repair (Partial Depth)	Sq. Yd.	12
Joint Sealing (Patches)	Foot	900
Protective Coat	Sq. Yd.	51
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	65

**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.

THE CONTRACTOR MUST EXERCISE EXTREME CARE DURING DECK REPAIR OPERATIONS AS NOT TO DAMAGE THE EXISTING PRECAST PANELS. DAMAGED PANELS CANNOT BE REPAIRED AND MUST BE REPLACED WITH A FULL DEPTH CAST-IN-PLACE CONCRETE SECTION OF THE SAME WIDTH AS THE DAMAGED PANEL. DETAILS SIMILAR TO THOSE ON THIS SHEET WILL BE REQUIRED TO ENSURE CONTINUITY OF THE CONCRETE DECK SECTION. ANY REPAIRS NEEDED TO REPLACE THE DAMAGED DECK PANELS WILL BE DONE TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.

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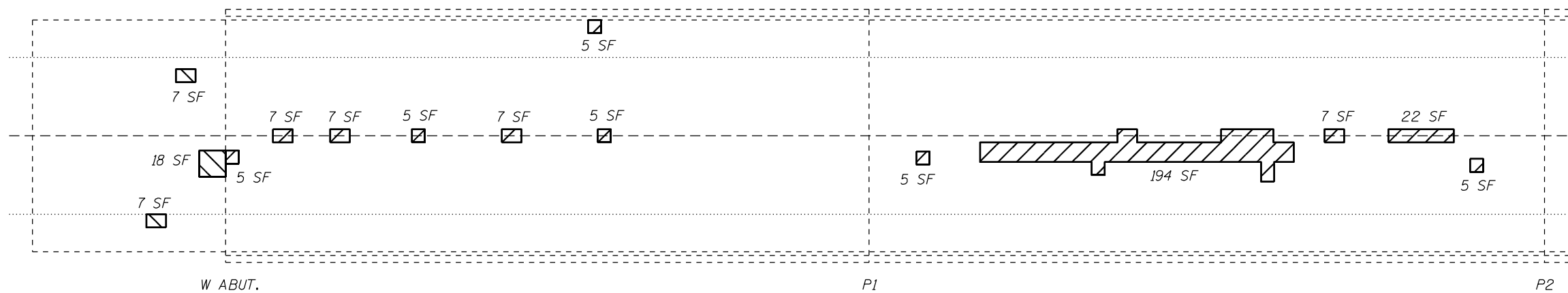
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

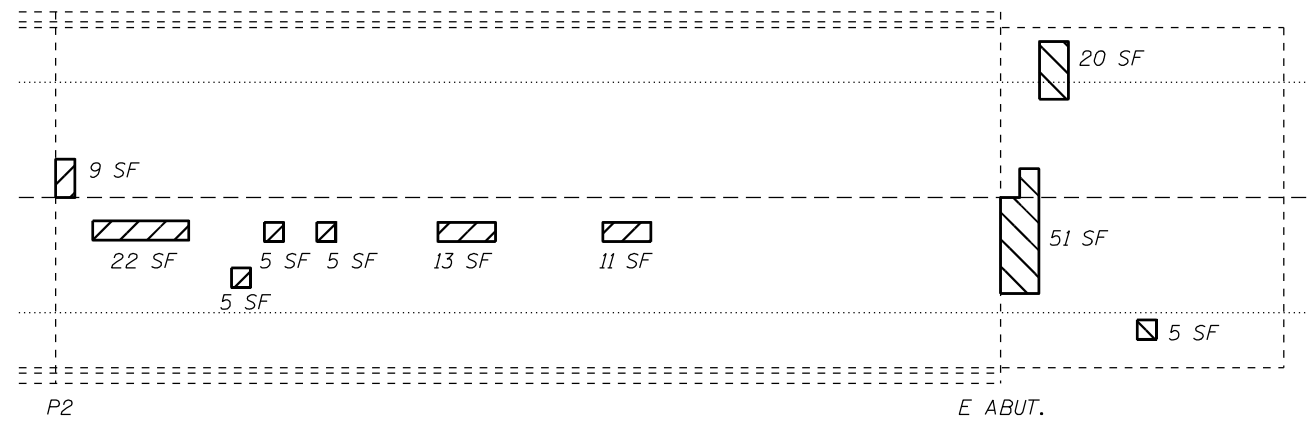
**BRIDGE PLAN & ELEVATION  
SN 054-0003**

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

F.A.P. RTE. 717	SECTION (103B-1)BDR	COUNTY LOGAN	TOTAL SHEETS 7	SHEET NO. 5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72N37	



**PARTIAL PLAN**



**PARTIAL PLAN**

**NOTES:**

IDENTIFIED PATCHING LOCATIONS ARE ESTIMATED FROM A DECK SURVEY PERFORMED ON 1/14/2021. 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 EXISTING TRANSVERSE CONSTRUCTION JOINTS.



APPROACH SLAB REPAIR (PARTIAL DEPTH)



DECK SLAB REPAIR (PARTIAL)

**SLAB REPAIR BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq. Yd.	39
Approach Slab Repair (Partial Depth)	Sq. Yd.	12
Joint Sealing (Patches)	Foot	900
Protective Coat	Sq. Yd.	51

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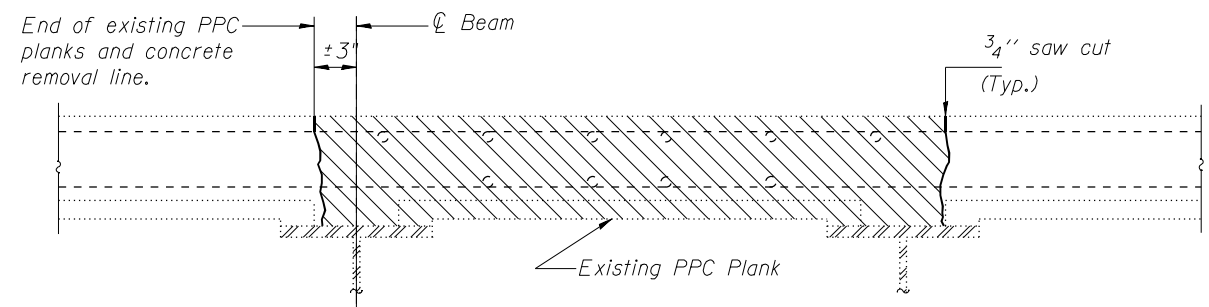
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

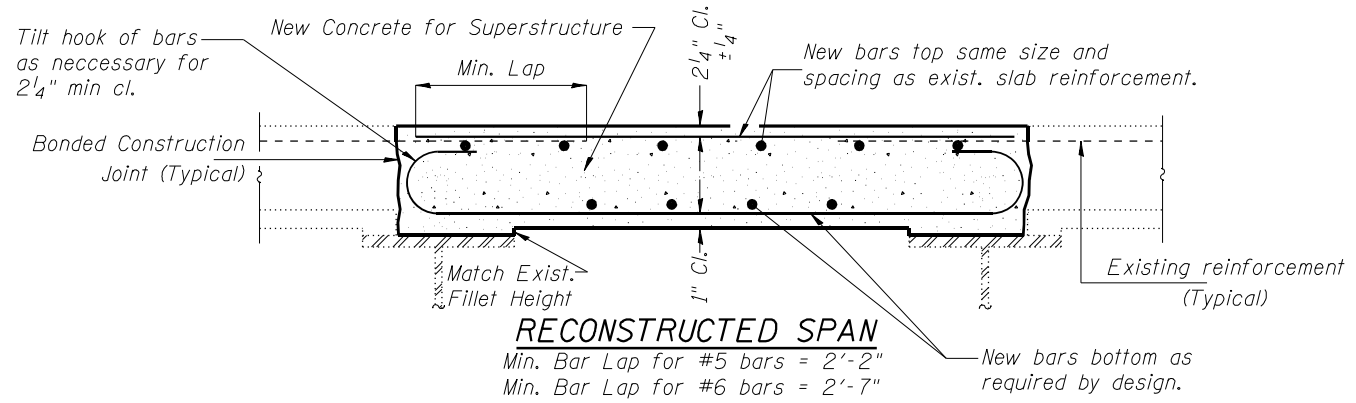
**BRIDGE PLAN & ELEVATION  
SN 054-0003**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(103B-1)BDR	LOGAN	7	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72N37	



**EXISTING PPC PLANK REMOVAL CROSS SECTION**



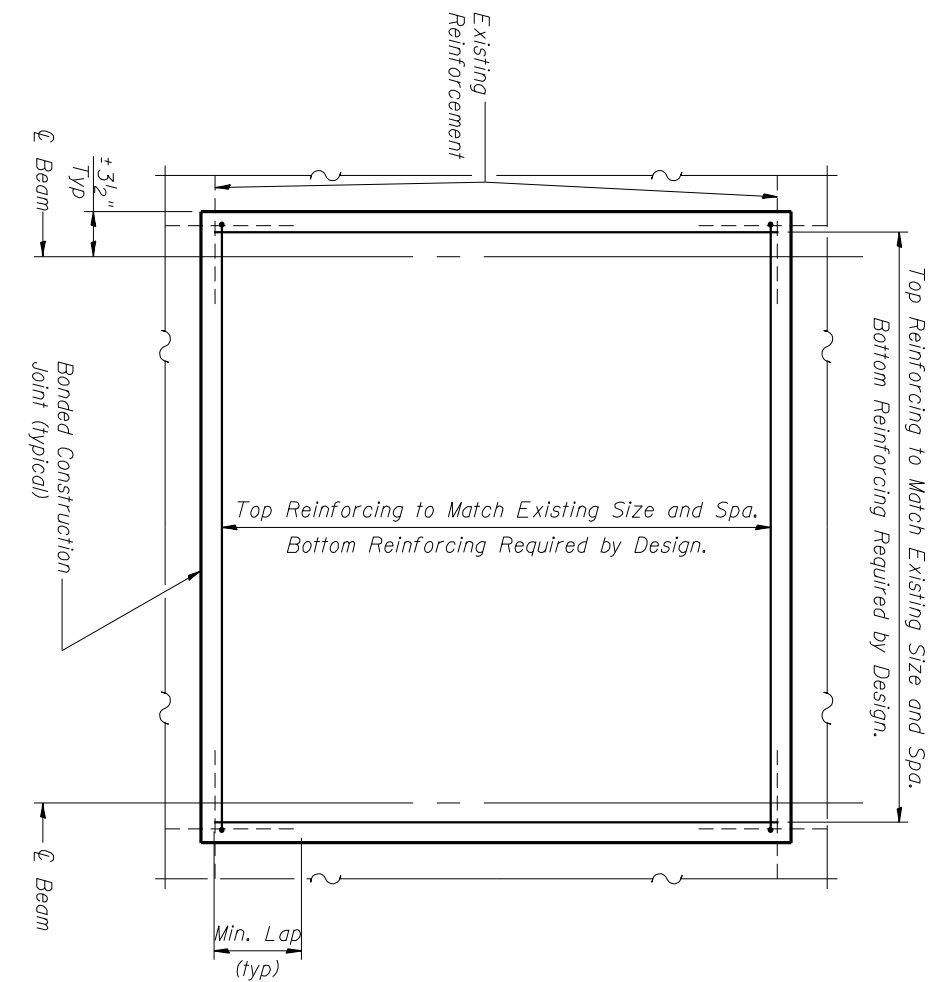
**RECONSTRUCTED SPAN**

Min. Bar Lap for #5 bars = 2'-2"  
 Min. Bar Lap for #6 bars = 2'-7"

Note: Hatched areas indicate concrete sections to be removed. Perimeters of Concrete Removal areas shall be saw cut 3/4" prior to the removal of the concrete. Existing transverse reinforcement shall be cleaned straightened and incorporated into the new construction as required to provide min. lap. New reinforcement bars shall be epoxy coated.

Use extreme care during concrete removal to avoid damaging the adjacent existing PPC Planks.

**FULL DEPTH REPAIR CROSS SECTION**



**FULL DEPTH REPAIR PLAN**

**NOTES:**

NO FULL DEPTH REPAIRS ARE PLANNED. THE DETAILS ON THIS SHEET ARE FOR INFORMATION ONLY.

THE CONTRACTOR MUST EXERCISE EXTREME CARE DURING DECK REPAIR OPERATIONS AS NOT TO DAMAGE THE EXISTING PRECAST PANELS. DAMAGED PANELS CANNOT BE REPAIRED AND MUST BE REPLACED WITH A FULL DEPTH CAST-IN-PLACE CONCRETE SECTION OF THE SAME WIDTH AS THE DAMAGED PANEL. DETAILS SIMILAR TO THOSE ON THIS SHEET WILL BE REQUIRED TO ENSURE CONTINUITY OF THE CONCRETE DECK SECTION. ANY REPAIRS NEEDED TO REPLACE THE DAMAGED DECK PANELS WILL BE DONE TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.

IN THE EVENT THAT PRECAST PANELS ARE DAMAGED, THE BUREAU OF BRIDGES AND STRUCTURES WILL PROVIDE REPAIR DETAILS SPECIFIC TO THIS STRUCTURE.

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FULL DEPTH REPAIR DETAIL  
 (FOR INFORMATION ONLY)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
717	(103B-1)BDR	LOGAN	7	7
CONTRACT NO. 72N37				
ILLINOIS FED. AID PROJECT				