06-14-13 LETTING ITEM 167

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

# PROPOSED HIGHWAY PLANS

FAP ROUTE 320 (IL 121) SECTION D7 BRIDGE REPAIRS 2014-2

MACON COUNTY

C-97-132-12



GROSS LENGTH = 228 FT. = 0.043 MILE NET LENGTH = 228 FT. = 0.043 MILE





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

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

PROJECT ENGINEER: MARK DAUGHERTY PROJECT MANAGER: JOYCE HEMMEN

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CONTRACT NO. 74601









# PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

### GENERAL\_NOIES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 20012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" INDICATED ON THE CHECK SHEET, AND "THE SPECIAL PROVISIONS" INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF EXPANSION JOINT REPLACEMENT. LONGITUDINAL JOINT REPLACMENT, BEARING REPLACEMENT BRIDGE DECK PATCHING, BRIDGE DECK OVERLAY AND OTHER WORK NECESSARY TO COMPLETE THE PROJECT.

WET REFLECTIVE TEMPORARY TAPE SHALL BE USED DURING STAGE 1 & 2. PAINT PAVEMENT MARKINGS SHALL BE APPLIED TO THE WESTBOUND LANES BEFORE RESTORING TRAFFIC TO THE NORMAL PATTERN AFTER STAGE 2 IS COMPLETE. PAINT PAVEMENT MARKINGS SHALL BE APPLIED TO THE EASTBOUND LANES IMMEDIATELY THEREAFTER.

FIELD MARKINGS OF UNDERGROUND UTILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J. U. L. I. E. SYSTEM BY CALLING 800-892-0123.

INDEX	OF.	CHEETC

SHEEL NO.	TITLE
1	COVER SHEET
2	INDEX OF SHEETS AND GENERA
3-4	SUMMARY OF QUANTITES
5	SCHEDULES
6-10	STAGE I TRAFFIC CONTROL PL
11-15	STAGE 2 TRAFFIC CONTROL PL
16-29	STRUCTURE PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS: 000001-06 STANDARD SYMBOLS. ABBREVIATIONS. AND PATTERNS 001001-02 AREAS OF REINFORCEMENT BARS 001006 DECIMAL OF INCH AND OF A FOOT 701101-03 OFF-ROAD OPERATIONS. MULTILANE, 15' TI 24" FROM PAVEMENT EDGE 701426-05 LANE CLOSURE. MULTILANE. INTERMITTENT OR MOVERING OPERATIONS FOR SPEEDS >= 45 MPH 701431-08 LANE CLOSURE. MULTILANE. UNDIV. WITH CROSSOVER. FOR SPEEDS >= 45 MPH TO 55 MPH 701901-02 TRAFFIC CONTROL DEVICES 704001-07 TEMPORARY CONCRETE BARRIER 780001-03 TYPICAL PAVEMENT MARKINGS 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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	c:\pw.work\pwidat\teaslayck\d03(2934\07)	1501-sht-gannate.dgn	ORAWN -	REVISED -	STATE OF ILLINOIS			UCIVEN/	AL INUICO O
		PLOT SCALE + 100.0000 1/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			INDEX	OF SHEETS
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AL NOTES

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&	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	320	•	MACON	29	2
	• 07	Bridge Repairs 2014-2	CONTRACT	NO.	4601
TA. TO STA.		ILLINDIS FED. A	D PROJECT		

	SUMM	ARY OF QUA	NTITIES		URBAN	100% STAT	ISTRUCTION TYPE CODE		SUMMAR	RY OF	QUANTITIES
CODE NO	T	ITEN		INIT	TOTAL	0014		CODE NO			
		4 * C-191	······································		GDARTITES						
50102400	CONCRETE	REMOVAL		CU YD	43.1	43.1		70301000	WORK ZONE F	AVEMENT MAR	KING REMOVAL
50300100	FLOOR DRA	INS		EACH	34	34		70400100	TEMPORARY (	ONCRETE BAR	RIER
50300255	CONCRETE	SUPERSTRUCTURE		CU YD	43.7	43.7		70400200	RELOCATE TE	MPORARY CON	ICRETE BARRIER
50300260	BRIDGE DE	CK GROOVING		SO YD	1598	1598	· · · · · · · · · · · · · · · · · · ·	70600250	IMPACT ATTE	NUATORS, TE	MPORARY (NON-
									REDIRECTIVE	). TEST LEV	EL 3
50300300	PROTECTIV	E. COAT	· · ·	SO YD	195	195				······	
								70600350	IMPACT ATTE	NUATORS, RE	LOCATE (NON-
50500405	FURNISHIN	G AND ERECTING STRUCT	JRAL STEEL	POUND	3600	3600			REDIRECTIVE	), TEST LEV	EL 3
		·									-
50800205	REINFORCE	MENT BARS, EPOXY COATE	ED .	POUND	8610	8610		78001110	PAINT PAVEN	ENT MARKING	- LINE 4"
50800515	BAR SPLIC	ERS		ЕАСН	24	24		78100300	REPLACEMENT REFLECTOR		
52000110	PREFORMED	JOINT STRIP SEAL		FOOT	168	168		78300100	PAVENENT MA	RKING REMOV	AL
			n an								······································
52100010	ELASTOMER	IC BEARING ASSEMBLY,	TYPE I	EACH	12	12		X7010214	TRAFFIC CON	TROL AND PR	OTECTION, STANDARD
			an a						701431 (SPE	CIAL)	
52100020	ELASTOMER	IC BEARING ASSEMBLY,	TYPE II	EACH	12	12					
52100520	ANCHOR BO	LTS. 1"		EACH	48	48		X1015005	UHANGEABLE	MESSAGE SIG	N
								×7030030	WET REFLECT	IVE TEMPORA	RY TAPE TYPE III. 4
67000500	ENGINEER'	S FIELD OFFICE, TYPE E	3	CAL MO	4	4			INCH		· · · · · · · · · · · · · · · · · · ·
67100100	MOBILIZAT	ION		L SUM	1			X7830050	RAISED REFI	FCTIVE PAVE	MENT MARKER. REFLECT
									REMOVAL		
L	L			1	L		<u> </u>	↓ ↓ ₩<⊃r			*****
LE NAME =	I	USER NAME ; teasleyck	DESIGNED -		REVISED -		· · ·····				,
i/pw.work/pwidot/tea	sleyck\d0312934\Q7	tGBI-shirtog.dgo	DRAWN -		REVISED -		STATE OF I	LLINOIS			SUMMARY OF QUAN
ofault		PLUI SCALE * 188.0000 1/ In. PLUI DATE * 4/8/2013	DATE -		REVISED -		DEPARTMENT OF T	IANSPORTAT	IUN	SCALF:	SHEET OF SHEETS ST

Ky.

		URBAN	CONS	TRUCTION TYPE	CODE
	UNIT	TOTAL	0014		
				-	
	SQ FT	4194	4194		
	FOOT	563	563		
	FOOT	475	475		
	EACH	2	2		
_					
	EACH	2	2		
	FOOT	2072	2072		· · · · · · · · · · · · · · · · · · ·
	<b>5</b> 1 011		50		-
	EACH	52	52		
	SQ FT	691	691		
	EACH	I	1		
					·
	CAL DA	28	28	······································	
	FOOT	12581	12581		
R	EACH	52	52		
					······

ITITIES		SECTION	COUNTY	TOTAL	SHEET NO.
		•	MACON	29	3
	+ 07	Bridge Repairs 2014-2	CONTRACT	NO. 7	14601
TA. TO STA.		ILLINOIS FED. A	D PROJECT		

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SUMMARY OF QUANTITIES CODE NO ITEM Z0001899 JACK AND REMOVE EXISTING BEARINGS Z0004556 HOT-MIX ASPHALT SURFACE REMOVAL (DECK) Z0012110 BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/4" Z0012130 BRIDGE DECK SCARIFICATION 3/4" Z0016001 DECK SLAB REPAIR (FULL DEPTH, TYPE I) Z0016002 DECK SLAB REPAIR (FULL DEPTH, TYPE II) \Q

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c1\pu_work\pwidet\teasleyck\d0312934\07	601-she-soq.dgo	DRAWN -	REVISED -	STATE OF ILLINOIS		-	SUMMAR	Y OF QU	ANTITIES		320		MACON	29	
	PLOT SCALE = 100.0000 1/ 10	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							+ D7 Bridge	Repairs 2014-2	CONTRA	CT NO.	74601
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	URBAN	CON	STRUCTION TYPE	CODE
	TOTAL	0014		
UNIT	OUANTITIES			
EACH	24	24		
			·	
SO YD	1550	1550		
50 YD	1550	1550	······	·····
		1000		
SQ YD	1550	1550		
			·····	
SO YD	1	1		
				······
50 10	10	61		
•				
··· <del>··································</del>				
		**		
	(1991)-1993)-1997, Taking (1994)-199400000000000000000000000000000000000		-	
			·····	

### REPLACEMENT REFLECTOR

		S
	Location	_
Station	†0	
416+10	†0	
418+37	to	
425+86	to	
426+86	†0	

		Stage 1					
	Location		Length	Quantity			
Station	to	Station	Foot	Each			
416+10	to	418+18	208	5			
418+37	to	425+57	720	18			
425+86	to	429+00	314	8			
426+86	to	429+00	214	5			
			Total	36			
		Stage 2		-			
Station	to	Station					
416+81	to	418+55	174	4			
418+75	to	420+00	125	3			
423+38	to	425+03	165	4			
425+30	to	427+27	197	4			
			Total	15			
	Grand Total 51						

### WET REFLECTIVE TEMPORARY TAPE

Stage 1							
Station	to	Station					
408+57	+o	429+00	2043				
414+15	to	434+47	4064				
		Total	6107				
Stage 2							
Station	to	Station					
413+00	to	434+94	2194				
409+60	to	431+00	4280				
		Total	6474				
	Grand Total 12581						

### WORK ZONE PAVEMENT MARKING REMOVAL

		Stage 1							
	Location		Length	Quantity					
Station	to	Station	Foot	Sq F†					
408+57	to	429+00	2043	681					
414+15	to	434+47	4064	1355					
		Total	6107	2036					
	Stage 2								
	Location		Length	Quantity					
Station	to	Station	Foot	Sq F†					
413+00	to	434+94	2194	731					
409+60	to	431+00	4280	1427					
		Total	6474	2158					
		Gr	and Total	4194					

DAINT		_	LINE	A	
I A INT	MARKING			-	

	<u>Stage 1</u>									
	Location		Quantity							
Station	to	Station	Foot							
416+10	†0	418+18	208							
418+37	to	425+57	702							
425+86	to	429+00	314							
426+86	to	429+00	214							
Total 1438										
	<u>Sta</u>	<u>ge 2</u>								
Station	to	Station								
416+81	to	418+55	174							
418+75	to	420+00	125							
423+38	+o	425+03	165							
425+30	to	427+27	170							
		Total	634							
		Grand Total	2072							

### PAVEMENT MARKING REMOVAL

		<u>Stage 1</u>		
	Location		Length	Quantity
Station	†0	Station	Foot	Sq Ft
416+10	+o	418+18	208	69
418+37	to	425+57	720	234
425+86	to	429+00	314	105
426+86	+0	429+00	214	71
			Total	479
		<u>Stage 2</u>		
Station	to	Station		
416+81	to	418+55	174	58
418+75	to	420+00	125	42
423+38	to	425+03	165	55
425+30	†0	427+27	197	57
			Total	212
Grand Tota		Gr	and Total	691

### RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

		Stage 1		
	Location		Length	Quantity
Station	to	Station	Foot	Each
416+10	to	418+18	208	5
418+37	to	425+57	720	18
425+86	to	429+00	314	8
426+86	+o	429+00	214	5
			Total	36
		Stage 2		
	Location		Length	Quantity
Station	to	Station		
416+81	to	418+55	174	4
418+75	to	420+00	125	3
423+38	to	425+03	165	4
425+30	to	427+27	197	4
			Total	16
		Gr	and Total	52

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -								F.A.P.	SECTION	COUNTY	TOTAL S	HEET
c:\pw_work\pwidot\teasleyck\d03l2934\D77	4601-sht-schedules.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS SCHEDULES			320	•	MACON	29	5				
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							• D7 Bridge	e Repairs 2014-2	CONTRACT	NO. 74	1601
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4 <u>06</u>		407		<u>409</u>	
					PT 540 409450.05
			BENTONULLE ROLD		STOP NO LEFT TURN







CONTROL STA 424 + 00		F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
		320	•	•		MACON	29	8	
5	IA 424 + 00	4 424 + 00		• D7 Bridge Repairs 2014-2			CONTRACT	NO. 7	'4601
S	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		

- TEMPORARY CONCRETE BARRIER WALL, 563'

- WHITE WET REFLECTIVE TEMPORARY TAPE

+38

- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
   (PLACE AT 50' CENTERS) (UNLESS NOTED OTHERWISE)
- TYPE II BARRICADEWITH STEADY BURN MONODIRECTIONAL LIGHT (PLACE AT 50' CENTERS)

<u>LEGEND</u>

423

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- C TYPE III BARRICADE, WITH FLASHING MONODIRECTIONAL LIGHTS

- ⊨ SIGN





CONTROL		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		320	•	MACON	29	9	
TA 430 + 00			• D7	Bridge Repairs 2014-2	CONTRACT	NO. 1	74601
5	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



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	      				LEFT TURN
					UTILIZE STD 701431
4 <u>06</u>		407	408	4 <u>09</u>	
					Sta 409+60.
			BRIAN CONTRACTOR		
			Town LE Road		NO LEFT TURN
					STOP
			<i>""</i> ,		



TO STA.

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PLOT DATE = 4/8/2013



	OONTINOE							
:т	A /18 ± 00		320	•		MACON	29	12
STA 418 + 00		• D7	Bridge Repairs 2014	-2	CONTRACT	NO. '	74601	
S	STA.	TO STA.		ILLINOIS F	ED. AI	D PROJECT		



			<u>0.5</u> 0			/ WH1	ITE WET REFLECTIVE				
IMPA	CT ATTENUATOR 	REFLECTIVE Y TAPE				====≠====	MPORARY TAPE		WHITE WET REFLECTIVE TEMPORARY TAPE		
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			¥	<u> </u>						•	$\bigcirc$
	<u>_</u>				<u>1427</u> IL	<u> </u>	<u>428</u>	(	O <sub>1 429</sub>	<u> </u>	<b>O</b>
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				N: 6+19.31 BK = 6+19.30 AH	STO NO LEFT TURN						
									LEGEND		
									DRUM WITH STEADY BURN (PLACE AT 50' CENTERS)	MONODIRECTIONAL LIGHT	
									TYPE II BARRICADE WITH MONODIRECTIONAL LIGHT (	STEADY BURN PLACE AT 50' CENTERS)	
									DIRECTION INDICATOR BAR MONODIRECTIOAL LIGHT.	REICADE WITH STEADY BURN (PLACE AT 50' CENTERS)	1
									<ul> <li>DIRECTION INDICATOR BAI MONODIRECTIOAL LIGHT.</li> <li>TYPE III BARRICADE, WITH</li> </ul>	RRICADE WITH STEADY BURN (PLACE AT 50' CENTERS) H FLASHING MONODIRECTION	N AL LIGHTS
									<ul> <li>DIRECTION INDICATOR BAR MONODIRECTIOAL LIGHT.</li> <li>TYPE III BARRICADE, WITH</li> <li>SIGN</li> </ul>	RRICADE WITH STEADY BURN (PLACE AT 50' CENTERS) H FLASHING MONODIRECTION	N Al LIGHTS







The existing three span steel beam structure was constructed in



SHEET 1 OF 14 SHEETS

EVATION	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	320	07 Bridge Repairs 2014-2	MACON	29	16
			CONTRACT	NO.	74601
STA. TO	STA.	ILLINOIS FED. A	D PROJECT		

# 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 work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

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 operations shall be replaced using an approved bar splicer or anchorage system. Cost included in CONCRETE REMOVAL.

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

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

Removal and reinstallation of the name plate attached to the structure will be necessary for construction of the expansion joints. This work and all materials shall be included in the contract unit price for CONCRETE SUPERSTRUCTURE.

Prior to pouring the new concrete deck, all heavy and 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.

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

Removal and replacement of a portion of the sidewalk will be necessary to remove or replace the existing deck drains. This work and all materials shall be included in the contract unit price for Deck Slab Repair (Full Depth).

It is anticipated that full depth deck slab repair will be necessary at every location of deck drains to be eliminated. Removal and disposal of the existing deck drains shall be included in the contract unit price for DECK SLAB REPAIR (FULL DEPTH).



ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	43.1
Concrete Superstructure	Cu. Yd.	43.7
Reinforcement Bars, Epoxy Coated	Pound	8610
Bar Splicers	Each	24
Preformed Joint Strip Seal	Foot	168
HMA Surface Removal (Deck)	Sq Yd	1550
Bridge Deck Scarification, 3 <sub>4</sub> "	Sq Yd	1550
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 <sup>1</sup> 4"	Sq Yd	1550
Bridge Deck Grooving	Sq Yd	1598
Protective Coat	Sq Yd	195
Deck Slab Repair (Full Depth, Type I)	Sq Yd	1
Deck Slab Repair (Full Depth, Type II)	Sq Yd	67
Floor Drains	Each	34
Elastomeric Bearing Assembly, Type I	Each	12
Elastomeric Bearing Assembly, Type II	Each	12
lack and Remove Existing Bearings	Each	24
Furnishing and Erecting Structural Steel	Pound	3600
Anchor Bolts, 1"¢	Each	48

\* Apply to new concrete only





TULINOIS FED ATD PROJECT

EXIST	ING	PART	ΓIΑL	_ PL	ĽΑΛ	/
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(North	Abutment	shown;	South	Abutment	similar	unless	noted	otherwise)	

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PLOT DATE = 4/8/2013

DATE - 2/20/2013

REVISED

SCALE: SHEET 4 OF 14 SHEETS

Į	CEMENT DETAILS		RTE.		3	ECTION		COUNTY	SHEETS	NO.
1	55		320	D7	Bridge	Repairs	2014-2	MACON	29	19
	33							CONTRACT	NO. '	74601
	STA.	TO STA.				ILL INOI:	S FED. AI	D PROJECT		







Longitudinal Joint

BAR	TOTAL	SIZE	LENGTH	SHAPE
a2(E)	333	#6	2'-4"	
a3(E)	167	#6	3′-8″	
b(E)	56	#6	34′-9″	
REINFOF (EPOXY (	RCEMENT BA COATED)	RS	POUND	5010
CONCRET	e removal		CU YD	16.7
CONCRET	e superst	RUCTURE	CU YD	17.3





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D	ETAILS		F.A.P. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
n	55		320	D7 Bridge Re	epairs	2014-2	MACON	29	22
	33						CONTRACT	NO. 1	4601
S	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		

						BK N. STA 4	ABUT 142+70.4	10							¢ Pier 1 STA 421+13.1	9		<b>X X</b>						¢ Pier STA 4	2 2 21+97 <b>.</b> 6	1
		1,																								
		8,-0,				49	50	52 5	4 56	57	58 5	9 60	62	64 2	66 87	68 69 23 2	70	71	73 74	76	78 79	80	81 8	2 8	85	86 8
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PATCH NO. 49 50 51	SI 2.5 × 2.5 × 3.0 ×	ZE 2.5 2.5 2.0	9 00 DECK SLAB 0 REPAIR 14 (PART NFDTH)	OS DECK SLAB C REPAIR TY 1)	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		PATCH NO. 67 68 69	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5	었 DECK SLAB C REPAIR 그 (PART DEPTI	었 DECK SLAB 거 REPAIR 거 (FD TY 1)	9 9 9 8 DECK SLAB α α 1 (FD TY 2)		PATCH NO. 85 86 87	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5	8 DECK SLA REPAIR 11 (PART DEI	S DECK SLAF S REPAIR 1 (FD TY 1)	(C L L D L C C K SLAB 		PATCH NO.	SI		C DECK SLAB C REPAIR T (PART DEPTI	O DECK SLAB C REPAIR T I)	20 DECK SLAB REPAIR 1 (FD TY 2)	
PATCH NO. 49 50 51 52	SI 2.5 × 2.5 × 3.0 × 2.5 ×	ZE 2.5 2.5 2.0 2.5	O DECK SLAB	O DECK SLAB	2.9 00 DECK SLAB 2.9 00 DECK SLAB 2.9 11 CFD 17 2) 2.0 11 (FD 17 2)		PATCH NO. 67 68 69 70	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5	S DECK SLAB REPAIR T (PART DEPTI	C DECK SLAB	9 9 9 9 9 00 DECK SLAB		PATCH NO. 85 86 87 88	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5	S DECK SLA REPAIR 1 (PART DEI	S DECK SLAF REPAIR 14 REPAIR	(2 YI 01 YI 2) 2 YI 01 YI 2) 2 YI 01 YI 2) 2 YI 01 YI 2) 2 YI 01 YI 2) 3 YI 10		PATCH NO.	SI2 PARTI2 334	ZE AL DEPTI 7 9 =	SO REPAIR 32. 1 32. 1	S DECK SLAB REPAIR 11 (FD TY 1)	O DECK SLAB A REPAIR T (FD TY 2)	
PATCH NO. 49 50 51 52 53	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 ×	ZE 2.5 2.5 2.0 2.5 3.0		S DECK SLAB	BEPAIR BECK SLAB C 2 X 20 C 3 C 40 C 40		PATCH NO. 67 68 69 70 71	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5	C C C C C C C C C C C C C C C C C C C	S DECK SLAB REPAIR T (FD TY 1)	200 CECK SLAB 200 CECK SLAB 20		PATCH NO. 85 86 87 88 89	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5	OECK SLA REPAIR 14 (PART DEI	C DECK SLAF	(C × L 49 C ×		PATCH NO.	SI2 PARTI2 334	ZE AL DEPTH / 9 = USE	ILI JOE STATE OF STAT	OC DECK SLAB	S DECK SLAB REPAIR 1 (FD TY 2)	
PATCH NO. 49 50 51 52 53 54 55	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 × 2.5 ×	2.5 2.5 2.0 2.5 3.0 2.5 2.0		O DECK SLAB	BR 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		PATCH NO. 67 68 69 70 71 71 72 73	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5	o C C C C C C C C C C C C C C C C C C C	B BECK SLAB	P         P		PATCH NO. 85 86 87 88 89 90 91	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5	S DECK SLA C REPAIR 1 (PART DEI	C DECK SLAF	(C L L L L L L L L L L L L L L L L L L L		PATCH NO.	SI2 PARTI2 334	ZE AL DEPTI / 9 = USE PTH, TYJ	BUT S NOT SOLUTION SOLUTIA	CL VI DECK SLAB	S DECK SLAB REPAIR 14 (FD TY 2)	
PATCH NO. 49 50 51 52 53 54 55 55 56	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 × 2.5 × 2.0 × 2.5 ×	2. 5 2. 5 2. 0 2. 5 3. 0 2. 5 2. 0 2. 5 2. 0 2. 5	BECK SLAB	BR SI ST	88 25 25 25 25 25 25 25 25 25 25 25 25 25		PATCH NO. 67 68 69 70 71 72 73 74	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0	C DECK SLAB	BECK SLAB	C         C <thc< th=""> <thc< th=""> <thc< th=""> <thc< th=""></thc<></thc<></thc<></thc<>		PATCH NO. 85 86 87 88 88 89 90 91 92	SIZE 2.5 × 2.5 2.5 × 14.0	SO FT SO FT	S DECK SLAE	(Z L1 (2) JECK ST 48 SO FT (2) JECK ST 48 G. 3 G. 3 G. 3 G. 3 G. 3 G. 3 G. 3 G. 3		PATCH NO.	PARTIA 334 FULL DEF	ZE AL DEPTH / 9 = USE PTH, TYP / 9 =	ULd30 SO FT 37. 1 37. 1 37. 5 E 1 0. 9	C A B B C K SLAB	C DECK SLAB	
PATCH NO. 49 50 51 52 53 54 55 56 57	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 × 2.5 × 2.5 × 2.5 ×	2. 5 2. 5 2. 0 2. 5 3. 0 2. 5 2. 0 2. 5 2. 0 2. 5	G. O	4.0	By 12         Alt 0.3           SO FT         6.3           6.3         6.3           12.0         6.3           6.3         6.3           6.3         6.3           6.3         6.3		PATCH NO. 67 68 69 70 71 71 72 73 74 75	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0	0 .6 0 .6 0 .6 0 .6 0 .6 1 .7 1 .0 .8 .1 .8 1 .0 .5 .1 .8 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	S DECK SLAB REPAIR 1 (FD TY 1)	C         S         OBCK SLAB           2         9         0		PATCH NO. 85 86 87 88 89 90 91 92 93	SIZE 2.5 × 2.5 2.5 × 2.5 2.0 × 14.0 2.0 × 8.0	IIC LIVE SO FT SO	S DECK SLAF	(2         AL         Generalized		PATCH NO.	SIZ PARTIZ 334 Z FULL DEF	ZE AL DEPTI / 9 = USE PTH, TYF / 9 = USE	BUTS X030 SO FT 37. 1 37. 1 37. 50 E 1 0. 9 1 SO 1 SO		S DECK SLAB REPAIR 11 (FD TY 2)	
PATCH NO. 49 50 51 52 53 54 55 56 57 58 58	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 ×	ZE 2.5 2.5 2.0 2.5 3.0 2.5 2.0 2.5 2.5 2.5 2.5		G XL DECK ST VA SO FT SO FT 4.0	8         2         ∠         1         3		PATCH NO. 67 68 69 70 71 72 73 74 75 76	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0	0 .c C C C C C C C C C C C C C C C C C C	C C C C C C C C C C C C C C C C C C C	C         O         O         O         O         C         C         B         C <thc< th=""> <thc< th=""> <thc< th=""> <thc< th=""></thc<></thc<></thc<></thc<>		PATCH NO. 85 86 87 88 89 90 91 92 93 94 25	SIZE 2.5 × 2.5 2.5 × 2.5 2.0 × 14.0 2.0 × 8.0 2.5 × 2.5	28.0 16.0	OS DECK SLAE	Rev 12         22           SO         FT           6.3         6.3           6.3         6.3           6.3         6.3           6.3         6.3           6.3         6.3           6.3         6.3           6.3         6.3           6.3         6.3           6.3         6.3           6.3         6.3           6.3         6.3		PATCH NO.	PARTIA 334 A FULL DEF 8 A	ZE AL DEPTI / 9 = USE PTH, TYF / 9 = USE USE	BILLIGIO RENTS X03G SO FT 37. 1 37. 1 37. 1 37. 50 E 1 0. 9 1 50 FT 0. 9		C DECK SLAB	
PATCH NO. 49 50 51 52 53 54 55 56 57 58 59 60	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 ×	ZE 2.5 2.5 2.0 2.5 3.0 2.5 2.5 2.5 2.5 2.5 2.5 2.5	BECK SLAB		R         (2         )         1         (3)         (1)		PATCH NO. 67 68 69 70 71 72 73 74 75 76 77 78	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 3.0 × 3.0 × 3.0 3.0 × 3.0 × 3.0 × 3.0 3.0 × 3.0 × 3.0 × 3.0 × 3.0 × 3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	S DECK SLAB REPAIR 1 (FD TY 1)	C 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		PATCH NO. 85 86 87 88 89 90 91 92 93 94 95	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.0 × 14.0 2.0 × 8.0 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5	28.0 16.0	S DECK SLAE	8         (7, 1, 1, 1)           8         1           8         1           8         1           1 <t< td=""><td></td><td>PATCH NO.</td><td>FULL DEF</td><td>ZE AL DEPTI / 9 = USE PTH, TYF / 9 = USE PTH, TYF / 9 =</td><td>BUTS X030 SO FT 37. 1 37. 1 37. 1 37. 5 E 1 0. 9 1 SC E 2 66. 6</td><td>OS DECK SLAB</td><td>SS DECK SLAB</td><td></td></t<>		PATCH NO.	FULL DEF	ZE AL DEPTI / 9 = USE PTH, TYF / 9 = USE PTH, TYF / 9 =	BUTS X030 SO FT 37. 1 37. 1 37. 1 37. 5 E 1 0. 9 1 SC E 2 66. 6	OS DECK SLAB	SS DECK SLAB	
PATCH NO. 49 50 51 52 53 54 55 56 57 58 59 60 61	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 ×	ZE 2.5 2.5 2.0 2.5 3.0 2.5 2.0 2.5 2.5 2.5 2.5 2.5 2.5 3.0		BP CI XL DECK ST VA DECK ST VA SO FT 4.0 4.0	8         €         ↓		PATCH NO. 67 68 69 70 71 72 73 74 75 76 77 78 79	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 10.0 2.5 × 2.5 2.5 × 2.5 3.0 × 10.0	8 DECK SLAB	Solution     Solution       Solution     Solution       Solution     Solution       Solution     Solution	(C XI Q DECK SLAB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		PATCH NO. 85 86 87 88 89 90 91 92 93 94 95 95	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.0 × 14.0 2.0 × 14.0 2.0 × 8.0 2.5 × 2.5 2.5 × 2.5 1.5 × 2.5 1.5 × 1.5 1.5 × 1.5 × 1.5 × 1.5 1.5 × 1.5 × 1.5 × 1.5 1.5 × 1.5 × 1.5 × 1.5 × 1.5 1.5 × 1	E C LING E C LI	A. 0	8         (2         1.1         (2)         1.1         (2)		PATCH NO.	FULL DEF 599	ZE AL DEPTI / 9 = USE PTH, TYP / 9 = USE PTH, TYP / 9 = USE USE	BUTS X030 FT SO FT 37. 1 37. 1 37. 1 37. 50 E 1 0. 9 1 50 E 2 66. 6 67 50		S DECK SLAB	
PATCH NO. 49 50 51 52 53 54 55 56 57 58 59 60 61 62	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 ×	ZE 2.5 2.5 2.0 2.5 3.0 2.5 2.5 2.5 2.5 2.5 3.0 2.5 3.0 2.5	G. O	4.0	8         €         ↓         €         ↓         €         ↓		PATCH NO. 67 68 69 70 71 72 73 74 75 76 77 78 79 800	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 10.0 2.5 × 2.5 2.5 × 2.5 3.0 × 10.0 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	S DECK SLAB	2       3		PATCH NO. 85 86 87 88 89 90 91 92 93 94 95 95	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.0 × 14.0 2.0 × 14.0 2.0 × 8.0 2.5 × 2.5 2.5 × 2.5 1.5 × 2.5 1.5 × 1.5 1.5 × 1.5 × 1.5 1.5 × 1.5 × 1.5 1.5 × 1.5 × 1.5 1.5 × 1.5 × 1.5 × 1.5 1.5 × 1.5	ч ла на	(I JI	8         (2)         1         (2)         1           9         12         1         (2)         1         (2)         1           1         6         3         (6)		PATCH NO.	SIZ	ZE AL DEPTI ( 9 = USE PTH, TYF ( 9 = USE PTH, TYF ( 9 = USE	8 7 3 3 0 1 1 1 2 3 0 1 1 2 3 0 1 1 2 3 0 1 1 2 3 0 1 1 2 3 0 1 2 1 2 3 0 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		S DECK SLAB	
PATCH NO. 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 3.0 × 2.5 × 2.5 × 3.0 × 2.5 × 3.0 × 2.5 × 3.0 × 3.5 × 3.0 × 3.5 × 3.0 × 3.5 × 3.0 ×	ZE 2.5 2.5 2.0 2.5 3.0 2.5 2.5 2.5 2.5 2.5 2.5 3.0 2.5 3.0 2.5 2.5 2.5 2.5 2.5 3.0 2.5 2.5 3.0 2.5 2.5 3.0 2.5 5 5 5		BP CI XL DECK 21 VB DECK 21	Ry         (2, 11, 03)           SO         FT           G         3           G		PATCH NO. 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 10.0 2.5 × 2.5 2.5 × 2.5	0.0 9.0 0.0 0.0 0.0 0.0 0.0 0.0	Solution     Solution       Solution     Solution       Solution     Solution       Solution     Solution	C C C C C C C C C C C C C C C C C C C		PATCH NO. 85 86 87 88 89 90 91 92 93 94 95 95	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.0 × 14.0 2.0 × 8.0 2.5 × 2.5 2.5 × 2.5 14.0 100	Image: Second state         Image: Second state           So FT         Image: Seco		8         (2, 1, 1, 0, 1)           8         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 0, 1)           9         (2, 1, 1, 1)           9         (2, 1, 1, 1)           9         (2, 1, 1)		PATCH NO.	SIZ PARTI 334 FULL DEF 8 599 BRIDGE 5	AL DEPTI / 9 = USE PTH, TYF / 9 = USE PTH, TYF / 9 = USE SIDEWALK	8 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2		S DECK SLAB	
PATCH NO. 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 2.5 × 3.0 × 2.5 × 2.5 ×	ZE 2.5 2.5 2.0 2.5 3.0 2.5 2.5 2.5 2.5 2.5 2.5 3.0 2.5 3.0 2.5 2.5 2.5 2.5 3.0 2.5 2.5 3.0 2.5 2.5 3.0		4.0	8         €         ↓         1         0		PATCH NO. 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 10.0 2.5 × 2.5 2.5 × 2.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	S DECK SLAB	(C XI AB C L J Z C C A C C Z C AB C C C C C C C C C C C C C C C C C C C		PATCH NO. 85 86 87 88 89 90 91 92 93 94 95 95	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.0 × 14.0 2.0 × 14.0 2.0 × 8.0 2.5 × 2.5 2.5 × 2.5 1.1 CRAND TOTAL	ч ла на	(I JJ JJ J SO FT SO FT S	8         (2)         1         (2)         1           SO         FT         6.3		PATCH NO.	SIZ PARTIA 334 A FULL DEF 8 A FULL DEF 599 A BRIDGE S	ZE AL DEPTI / 9 = USE PTH, TYF / 9 = USE PTH, TYF / 9 = USE SIDEWALF USE	8 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	YD YD YD YD YD YD YD YD R R R	S DECK SLAB	
PATCH NO. 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 ×	ZE 2. 5 2. 5 2. 0 2. 5 3. 0 2. 5 2. 5 2. 5 2. 5 2. 5 2. 5 3. 0 2. 5 2. 5 2. 5 2. 5 2. 5 2. 5 2. 5 2. 5		BP CI XL SO FT SO FT 4.0 4.0	By So FT           SO FT           SO FT           6.3           6.3           12.0           6.3		PATCH NO. 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 10.0 2.5 × 2.5 2.5 × 2.5	9. 0 9. 0 9. 0 9. 0 9. 0 9. 0 9. 0	- S DECK SLAB REPAIR 1 (FD TY 1)	(2)       1.1         (2)       1.1         (3)       1.1         (4)       1.1         (5)       1.1         (6)       3		PATCH NO. 85 86 87 88 89 90 91 92 93 94 95 95	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.0 × 14.0 2.0 × 8.0 2.5 × 2.5 2.5 × 2.5 1.5 × 2.5 2.5 × 14.0 2.0 × 14.0 2.0 × 14.0 2.0 × 14.0 2.0 × 14.0 2.5 × 2.5 2.5 × 2.5 × 2.5 2.5 × 2.5 × 2.5 2.5 × 2.5	Y         Y           Y         Y		8         (2, 1, 1, 0, 1)           SO         FT           6.3         6.3           7         7.3           7         7.3           7         7.3           7         7.3           7         7.3           7         7.3           7         7.3           7         7.3           7 <td< td=""><td></td><td>PATCH NO.</td><td>SIZ</td><td>ZE AL DEPTI / 9 = USE PTH, TYF / 9 = USE SIDEWALH USE</td><td>BILdag           BY TS           SO FT           SO FT           37. 1           37. 1           37. 1           9           1           0. 9           1           66. 6           67           67           67           66. 6           67           0           0           0           0</td><td>YD YD YD YD YD YD R R R FT</td><td>SOBECK SLAB</td><td></td></td<>		PATCH NO.	SIZ	ZE AL DEPTI / 9 = USE PTH, TYF / 9 = USE SIDEWALH USE	BILdag           BY TS           SO FT           SO FT           37. 1           37. 1           37. 1           9           1           0. 9           1           66. 6           67           67           67           66. 6           67           0           0           0           0	YD YD YD YD YD YD R R R FT	SOBECK SLAB	
PATCH NO. 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 FILE NAME ci\pw.work\	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 ×	ZE 2.5 2.5 2.0 2.5 3.0 2.5 2.5 2.5 2.5 3.0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	SO F1	SO FT	R T S K T S S S S S S S S S S S S S S S S		PATCH NO. 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 00 00 00 00 00 00 00 00 00 00 00 00 00	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 10.0 2.5 × 2.5 2.5 × 2.5	0.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	CODECK SLAB	(C 140 C) (C 140 C)		PATCH NO. 85 86 87 88 89 90 91 92 93 94 95 93 94 95	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.0 × 14.0 2.0 × 14.0 2.0 × 8.0 2.5 × 2.5 2.5 × 2.5 1.1 GRAND TOTAL	28.0 16.0 98 334 STA		8         (2)         1         (2)         1         (2)         1         (2)         1         (2)         1         (2)         1         (2)         1         (2)         1         (2)         1         (2)         1         (2)         1         (2)		PATCH NO.	SIZ	ZE AL DEPTI / 9 = USE PTH, TYF / 9 = USE VSE SIDEWALF USE	8 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	P TD P TD P TD P TD P TD P TD P TD P TD	CS DECK SLAB	
PATCH NO. 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 FILE NAME ci\pw_work\	SI 2.5 × 2.5 × 3.0 × 2.5 × 4.0 × 2.5 ×	ZE 2.5 2.5 2.0 2.5 2.0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	SO F1	4.0	R         R		PATCH NO. 67 68 69 70 71 72 73 74 75 76 77 78 79 80 80 81 82 83 84 0F 0F 0D	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 3.0 × 3.0 2.5 × 2.5 3.0 × 10.0 2.5 × 2.5 2.5 × 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 × 2.5 2.5 × 2.5 × 2.5 2.5 × 2.	BLACK SLAB	CODECK SLAB	(C 1, 1, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,		PATCH NO. 85 86 87 88 89 90 91 92 93 94 95 94 95	SIZE 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.5 × 2.5 2.0 × 14.0 2.0 × 14.0 2.0 × 8.0 2.5 × 2.5 2.5 × 2.5 1000000000000000000000000000000000000	28.0 16.0 98 3334 550 FT		89         (2)           11         (2)           12         (2)           13         (2)           14         (2)           15         (2)           16         (3)           17         (3)           18         (3)           19         (3)           19         (3)           10         (3)           10         (3)	VOIS	PATCH NO.	SIZ	ZE AL DEPTI / 9 = USE PTH, TYF / 9 = USE SIDEWALF USE SIDEWALF SCALE:	B         Idda           B         Idda           SO         FT           37.1         37.1           37.1         37.5           E         1           0.9         1           SO         FT           66.6         67           67         SC           C         REPAI           0         SC           I         SC	BY USE T		CK PATC SN. 058–0

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РАТСН	<u> </u>	76	R SLA	R R Y J)	R R Y 2)		ARE APPROXIMATE. SEE THIS
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							FULL DEPTH
							K////
							DATE OF SURVEY: 8-28-12
							METHOD OF SURVEY: VISUAL
							MACON COUNTY
							FAP ROUTE 320
							OVER LONG CREEK
							SN 058-0055
							SN 058-0055
							SN 058-0055
							SN 058-0055
							SN 058-0055
IING ST	TAGE II			F.A. RTE.		SECTION	SN 058-0055
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IING ST 055   sta.	FAGE II	TO STA.		F.A. RTE.	OAD DIST.	SECTION	SN 058-0055



### BEAM REACTIONS

R₽	(K)	39.2
RL	(K)	41.6
Imp.	(K)	10.4
R (Total)	(K)	91.2

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

Erecting Structural Steel. New steel extensions, shim plates and connection balts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 50 Tons. Anchor balts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554. In lieu of ASTM F1554,

In lieu of ASIM F1554. Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications. Side retainers shall be included in the cost of

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II. The  $l_g''$  PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosily 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  ${}^{l}_{B}$ " PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



BELOW 50° F. (Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

## SETTING ANCHOR BOLTS AT EXP. BRG.

 $D = {}^{l}g''$  per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

DESIGNED DAB	EXAMINEO	Inot A. And t	DATE - MAY 6, 2013	CTATE OF HUMOIO	S ABUTMENT BEARING REPLACEMENT DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO,
DRAWN Daliva	PASSED	ACTING ENGINEER OF STRUCTURAL SERVICES		DEPARTMENT OF TRANSPORTATION	SN 058-0055	320	07 Bridge Repairs 2014-2	MACON	29	25
CHECKED DAB ARS	-	ACTING ENGINEER OF ORIDGES AND STRUCTURES	·····		SHEET NO. 10 OF 14 SHEETS		ILLINOIS FED. A	D PROJECT		1001





1-2"





STEEL EXTENSION DETAIL

# SECTION B-B



anchor bolf smooth and seal with epoxy.

EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



ABOVE 50° F.

BILL	0F	MA	ΤE	RIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	12
Jack and Remove Existing Bearings	Each	12
Furnishing and Erecting Structural Steel	Pound	1650
Anchor Bolts 1"\$	Each	24



GES AND STRUCTURE

CHECKED DAB ARS



# PLAN TOP AND BOTTOM PLATE



STEEL EXTENSION DETAIL

В.	ΤĹ	Ĺ.	0F	MA	TE	RI.	٩Ľ
				***	-		فيفعصه

Item	Unit :	Total
Elastomeric Bearing Assembly Type I	Each	12
Jack and Remove Existing Bearings	Each	12
Furnishing and Erecting Structural Steel	Pound	1950
Anchor Bolts 1'4	Each	24

DIACEMENT DETAILS	F.A.P. RTE.		St	CTION		COUNTY	SHEETS	SHEET NO.	
SHEETS	320	07	Bridge	Repairs	2014-2	MACON	29	26	
SHEETS				TEL INO	SIFFO AL	CONTRAC	T NO.	74601	
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Item	Unit	Total
Preformed Joint Strip Seal	Foot	168

NT STRIP SEAL		F.A.P. RTE.		S	ECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		320	D7	Bridge	Repairs	2014-2	MACON	29	27	
υ.	010-0011							CONTRACT	NO	74601
S	STA.	TO STA.				ILL INOI:	S FED. AI	D PROJECT		



# STANDARD BAR SPLICER ASSEMBLY

	Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1′-5′′	1'-11''	2'-1''	2'-4''	2'-7''	2'-11''
5	1'-9''	2'-5''	2'-7''	2'-11''	3'-3''	3'-8''
6	2'-1''	2'-11''	3'-1''	3′-6″	3′-10′′	4'-5''
7	2'-9''	3′-10′′	4'-2''	4'-8''	5'-2''	5′-10′′
8	3′-8′′	5′-1′′	5′-5′′	6'-2''	6′-9′′	7'-8''
9	4'-7''	6'-5''	6'-10''	7'-9''	8'-7''	9'-8''

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Class C

Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length +  $l_2^{\prime\prime}$  + thread length

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

Location	Bar size	No. assemblies required	Table for minimum lap length
058-0055	#6	24	Table 3



### 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.





BSD-1

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FILE NAME =	USER NAME = teasleyck	DESIGNED -	DFZ	REVISED -		BAB SPLICEB ASSEMBLY AND MECHANICAL SPLICEB DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
c:\pw_work\pwidot\teasleyck\d03l2934\D77	4601-sht-brdetails.dgn	DRAWN -	DFZ	REVISED -	STATE OF ILLINOIS				320 C	D7 Bridge Repairs 2014-2	MACON	29	28	
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	MJM	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 038-0033						CONTRACT NO. 74		74601
Default	PLOT DATE = 4/8/2013	DATE -	2/20/2013	REVISED -		SCALE: SHEET 13 OF 14 SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				



# STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

<u>NOTES</u>

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.



"W" = Top bars spacing + 4"

R-27	7-1-10						
FILE NAME =	USER NAME = teasleyck	DESIGNED -	DFZ	REVISED -		TEMPORARY CONCRETE RARRIER FOR STAGE CONSTRUCTION	F.A.P. SECTION COUNTY TOTAL SHEET
c:\pw_work\pwidot\teasleyck\d0312934\D7	74601-sht-brdetails.dgn	DRAWN -	DFZ	REVISED -	STATE OF ILLINOIS		320 D7 Bridge Repairs 2014-2 MACON 29 29
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	MJM	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 058-0055	CONTRACT NO. 74601
Default	PLOT DATE = 4/8/2013	DATE -	2/20/2013	REVISED -		SCALE: SHEET 14 OF 14 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT

# NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) 1" x 7' 'x "W" steel P to the top layer of couplers with  $2 - \frac{5}{8}'' \phi$  bolts screwed to coupler at approximate  $\varphi$  of each barrier panel. Detail II - With Extended Reinforcement Bars: Connect one (1) 1" x 7" x "W" steel P to the concrete slab or concrete wearing surface with  $2 - \frac{5}{8}$ "  $\phi$ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate Q of each barrier panel. Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready



\* Reauired only with Detail II