11-17-2017 LETTING ITEM 023

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SN 034-0026

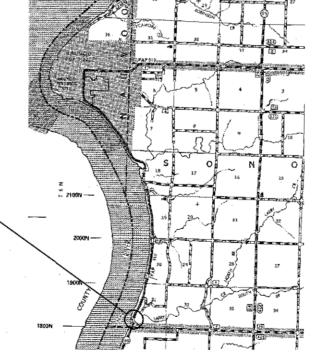
IL 96 OVER LARRY CREEK 5.3 MI N US 136 IN HAMILTON

PROPOSED CONTRACT MAINTENANCE

FAP ROUTE 510 (IL 96) SECTION (120) BRR

BRIDGE DECK OVERLAY HANCOCK COUNTY

C-96-078-17



LOCATION OF SECTION INDICATED THUS: -

D-96-078-17

STATE OF ILLINOIS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

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

GROSS LENGTH = 520 FT. = 0.10 MILE NET LENGTH = 520 FT. = 0.10 MILE

CONTRACT NO. 72K14

INDEX OF SHEETS

1 COVER SHEET

INDEX, STANDARDS, SIGNATURES, GENERAL NOTES, & SCHEDULES

3-4 SUMMARY OF QUANTITIES

5 TYPICAL SECTIONS

6 ROADWAY PLAN

7 STAGING PLAN 8 TRAFFIC CONTROL PLAN

9-14 SN 034-0026 BRIDGE PLANS

GENERAL NOTES:

BASE COURSE WIDENING SHALL BE COMPLETED PRIOR TO STAGING TRAFFIC.

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 August 8th 20 17

ENGINEER OF OPERATIONS

EXAMINED August 8 20 17

EXAMINED August 8 20 17

EXAMINED August 8 20 17

STANDARDS

000001-06 001001-02 001006 701001-02 701006-05 701201-04 701306-03 701321-16 701326-04 701901-06 704001-08 780001-05 782006

		PAVING SC	HEDULE	
STA	ТО	STA	BIT MATL (TACK CT) (POUND)	HMA SURF COURSE (TON)
829+30		830+99	270	59
833+01	-	834+50	238	52
		TOTALS	508	. 111

<u> </u>	PAVE	MENT MARK	ING REI	MOVAL SCHEDULE	
STA	TO	STA	LOC.	LINE TYPE	PAVT MARK REM (SO FT)
STAGE I		-			
827+70	T - T	830+20	Œ	DOUBLE SOLID	. 208
829+70	- 1	834+30	LT	SOLID	192
833+80	-	836+30	E	DOUBLE SOLID	208
STAGE II					
829+70	-	834+30	RT	SOLID	192
				TOTAL	800

			SHOULD	ER IMPROVEMENT	r SCHEDULE		
STA	ТО	STA	SIDE	BASE COURSE WIDENING 8" (SO YD)	PAVED SHLDR REM (SO YD)	EARTH EX. WIDENING (CU YD)	AGG WEDGE SHLDR (TON)
829+30	+	830+99	RT	75	75	4.2	6.4
829+30	1 - 1	830+99	17	75	75	4.2	6.4
833+01	1-1	834+50	RT	66	66	3.7	5.7
833+01	+	834+50	LT	66	66	3.7	5.7
000 01	_!		TOTALS	282	282	15.8	24.2

MIXTURE USE(S)	HMA BASE CSE	HMA SURFACE
	WIDENING *	CSE
AC/PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIX COMPOSITION	IL 19.0	IL 9.5
(GRADATION MIXTURE)		
FRICTION AGGREGATE	N/A	MIX "C"
QUALITY MANAGEMENT	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A

^{*} BASE COURSE PAY ITEM ALLOWS FOR HMA OR PCC USE.

USLR NAML = dudleybm	DESIGNED -	REVISED -
OSEK NAME = Godeyon	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = 100.0000 ' / in.		REVISED -
PLOT DATE = 8/23/2017	DATÉ -	THE VISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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SCALE:

					Taken to 1	CUEST
INDEX OF CHEETE CTANDARDS	CENEDAL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
INDEX OF SHEETS, STANDARDS	510	(120) BRR	HANCOCK	14	2	
NOTES, SIGNATURES, & QUANTITY			CONTRAC	F NO. 72	2K14	
SHEET OF SHEETS STA.	TO STA.		ILLIHOIS FED.	AID PROJECT		

0-01624-6009

100% STATE

BRIDGE TOTAL 0047 CODE RURAL UNIT QUANTITY ITEM NO. CU YD 16 16 EARTH EXCAVATION (WIDENING) 20200500 282 282 SQ YD 35650300 BASE COURSE WIDENING 8" POUND 508 508 BITUMINOUS MATERIALS (TACK COAT) 40600290 \$Q YD 711 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT 40600982 SO YD 86 86 40600990 TEMPORARY RAMP TON 111 111 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 40603310 282 SQ YD 282 PAVED SHOULDER REMOVAL 44004250 25 TON 25 AGGREGATE WEDGE SHOULDER, TYPE B 48102100 3.3 3. 3 CU YD CONCRETE REMOVAL 50102400 17 .17 EACH FLOOR DRAINS 50300100 4.0 CU YD 4.0 CONCRETE SUPERSTRUCTURE 50300255 663 663 SQ YD BRIDGE DECK GROOVING 50300260 SQ YD 16 16 50300300 PROTECTIVE COAT POUND 650 650 REINFORCEMENT BARS, EPOXY COATED 50800205

	0-01624-6009	
	100% STATE	
· · ·	 DOIDCE	

			TOTAL	BRIDGE 0047
CODE NO.	ITEM	UNIT	QUANTITY	RURAL
0800515	BAR SPLICERS	EACH	12	12
2000110	PREFORMED JOINT STRIP SEAL	FOOT	70	70
7100100	MOBILIZATION	L SUM	1	1
0100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
0100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
0100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
0100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
0106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
0106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
0300100	SHORT TERM PAVEMENT MARKING	F00Ť	100	100
0300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	33	33
70400100	TEMPORARY CONCRETE BARRIER	FOOT	440	440
0400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	440	440
0600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2

4

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ° / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

F					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	SUMMARY OF QUANTITIES					510	(120) BRR	HANCOCK	14	3
								CONTRACT	NO. 72	2K14
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

14

0-01624-6009 100% STATE BRIDGE

				BRIDGE
CODE			TOTAL	0047
	ITEM	UNIT	QUANTITY	RURAL
NO.	7. Cm			
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	. 2
78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	3000	3000
7.0001120				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
X0322469	PLUG EXISTING FLOOR DRAINS	EACH	37	37
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	800	800
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	120	120
x7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0012130	BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	708	708
Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2"	SQ YD	708	708
20012101				
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	10	10
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	4	4
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	67	67

12

* SPECIALTY ITEM

DESIGNED -USER NAME = dudleybm REVISED -DRAWN PLOT SCALE = 100.0000 ' / in.

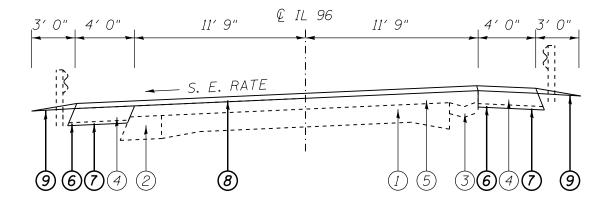
PLOT DATE = 8/23/2017 CHECKED -REVISED -REVISED -DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES SHEET OF SHEETS STA. SCALE:

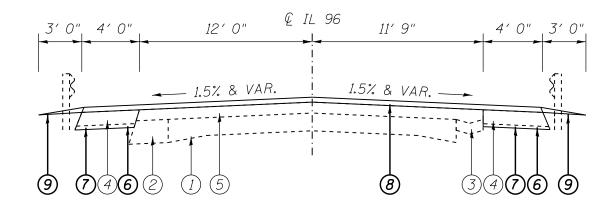
TO STA.

F.A.P. RTE. 510 SECTION (120) BRR

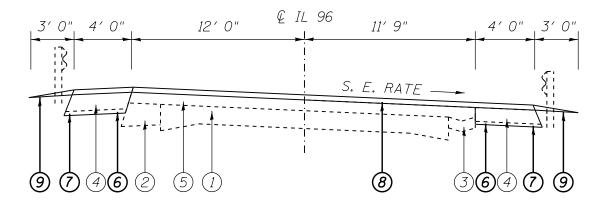


STA 829+30.00 TO STA 830+98.70 *

* BRIDGE APPROACH PAVEMENT STA 830+78.70 TO STA 830+98.70



STA 833+01.73 TO STA 833+05.00



STA 833+05.00 TO STA 834+50.00 **

** BRIDGE APPROACH PAVEMENT STA 833+01.78 TO 833+21.78

EXISTING PCC PAVEMENT (9-6-9) EXISTING HMA BASE COURSE WIDENING EXISTING PCC GUTTER EXISTING HMA SHOULDER, 6" EXISTING HMA OVERLAYS, ±4" PROPOSED EARTH EXCAVATION (WIDENING) PROPOSED BASE COURSE WIDENING, 8"

PROPOSED HMA SURFACE COURSE. 1-3/4"

PROPOSED AGGRAGATE WEDGE SHOULDER - TYPE B

EXISTING CURVE DATA P.I. STA= 828+89.96 △= 14°-12′-00′′ LT D= 3°-47'-00'' R= 1514.43' T= 188.63' L = 375.33E= 11.70' e= 6.1% T.R.= S.E. RUN= P.C. STA= 827+01.33 P.T. STA= 830+76.20 S.E. ATTAINED: 830+26.40 TO 831+75.94

EXISTING CURVE DATA P.I. STA= 836+66.10 △= 16°-58′-00′′ LT D= 3°-00'-00'' R= 1909.86' T= 284.86' L= 565.56′ E= 21.13' e= 5.3% T.R.= S.E. RUN= P.C. STA= 833+81.22 P.T. STA= 839+46.78

S.E. ATTAINED: 833+05.00 TO 834+55.00

NOTES:

SCALE:

BASE COURSE WIDENING 8" SHALL BE EXTENDED TO THE FACE OF THE CONCRETE PARAPET AT THE BRIDGE APPROACHES.

HIGH SIDE OF CURVE: WHEN THE SUPERELEVATION RATE OF THE PAVEMENT IS BETWEEN 0% AND 4%, THE SHOULDER SHALL BE SLOPED AT 4%. WHEN THE SUPERELEVATION RATE OF THE PAVEMENT EXCEEDS 4%, THE SHOULDER SHALL BE SLOPED SO THAT THE ALGEBRAIC DIFFERENCE BETWEEN PAVEMENT AND SHOULDER WILL NOT BE GREATER THAN 8%.

LOW SIDE OF CURVE: WHEN THE SUPERELEVATION RATE OF THE PAVEMENT IS GREATER THAN 4%, THE SHOULDER SHALL HAVE THE SAME CROSS SLOPE. OTHERWISE THE SHOULDER CROSS SLOPE SHALL BE 4%.

USER NAME = dudleybm	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2017	DATE -	REVISED -

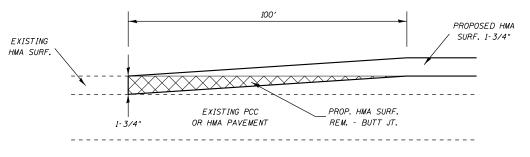
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TYDICAL SECTIONS					F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	TYPICAL SECTIONS				510	(120) BRR	HANCOCK	14	6		
							CONTRACT	NO. 72	2K14		
	SHEET	OF	SHEETS	STA.	TO STA.	TILLINOIS FED AID PROJECT					



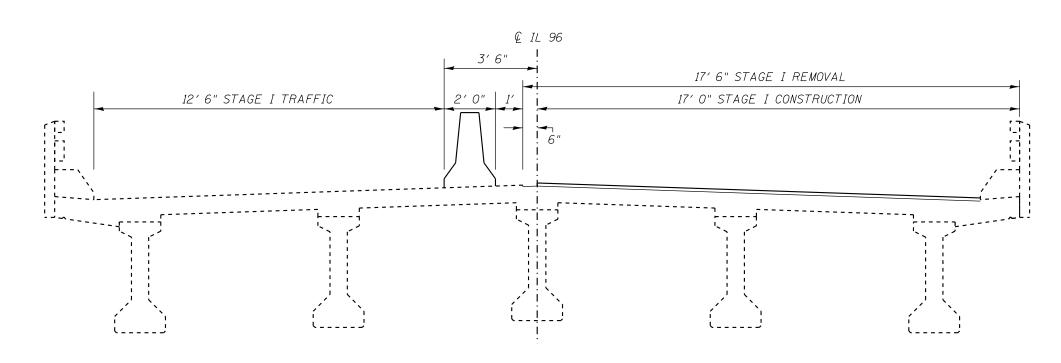


ROADWAY PLAN

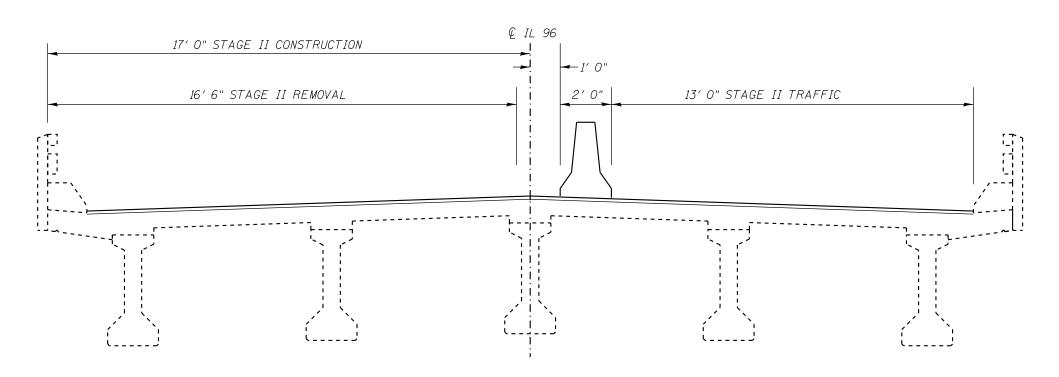


BUTT JOINT ELEVATION

USER NAME = dudleybm	DESIGNED -	REVISED -						F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.			
	DRAWN -	REVISED -	STATE OF ILLINOIS ROADWAY PLAN			510	(120) BRR	HANCOCK	14 4					
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	NO. 72K14	
PLOT DATE = 8/23/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		ID PROJECT	OJECT	



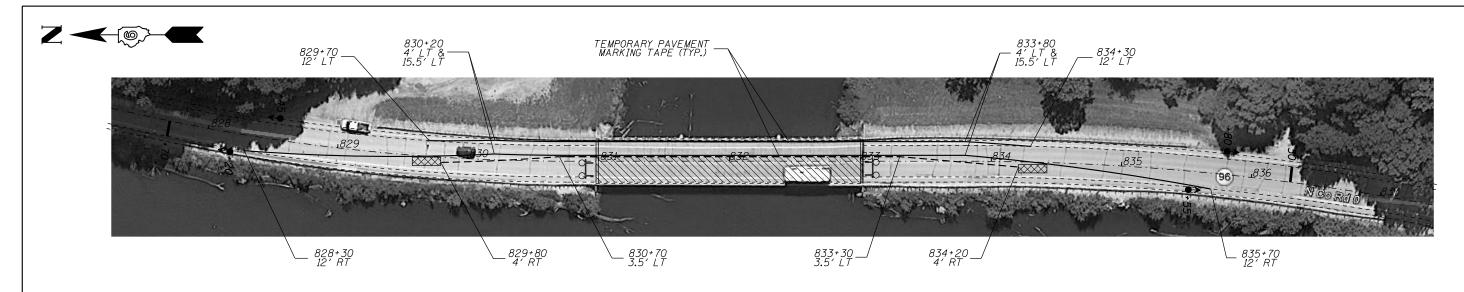
STAGE I CROSS SECTION (LOOKING SOUTH)



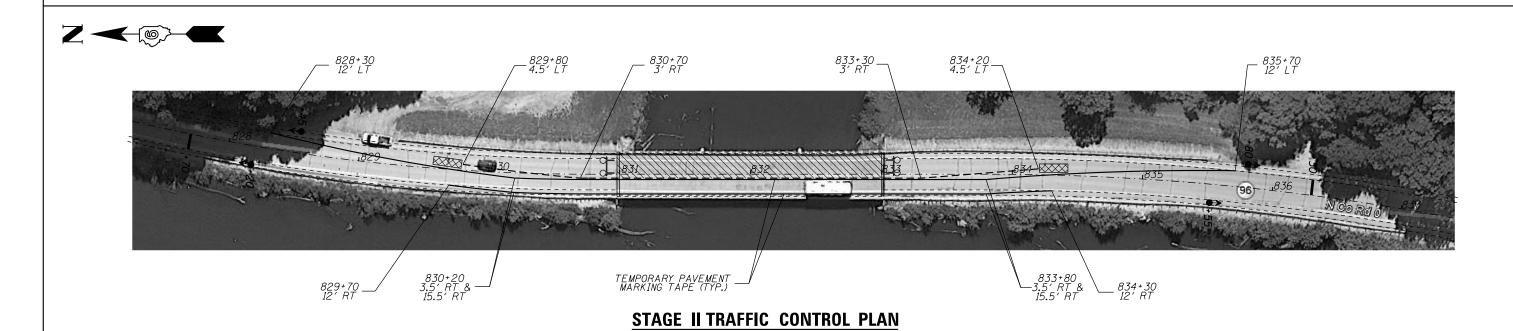
STAGE II CROSS SECTION (LOOKING SOUTH)

USER NAME = dudleybm	DESIGNED -	REVISED -						F.A.P. RTF	SECTION	COUNTY	TOTAL SHEET	
	DRAWN -	REVISED -	STATE OF ILLINOIS STAGING DETAIL DEPARTMENT OF TRANSPORTATION		510	(120) BRR	HANCOCK	14 7				
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -						CONTRACT	NO. 72K14			
PLOT DATE = 8/23/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.	ILLINOIS FED. AID P		ID PROJECT	

MODEL: Default



STAGE I TRAFFIC CONTROL PLAN



SYMBOLS



WORK AREA

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR

←

TRAFFIC SIGNAL

TYPE III BARRICADE WITH FLASHING LIGHTS

TRAFFIC CONTROL NOTES:

I. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701321. DEVICES AND TEMPORARY PAVEMENT MARKINGS SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. IMPACT ATTENUATORS, TEMPORARY RUMBLE STRIPS, AND TEMPORARY CONCRETE BARRIER SHALL BE PAID SEPARATELY.

2. TEMPORARY CONCRETE BARRIER OFFSETS GIVEN IN THIS DETAIL REFER TO THE EDGE OF THE BARRIER NEAREST TO LIVE TRAFFIC. ALL BARRIER WALL TAPERS SHALL BE 12:1.

SCALE:

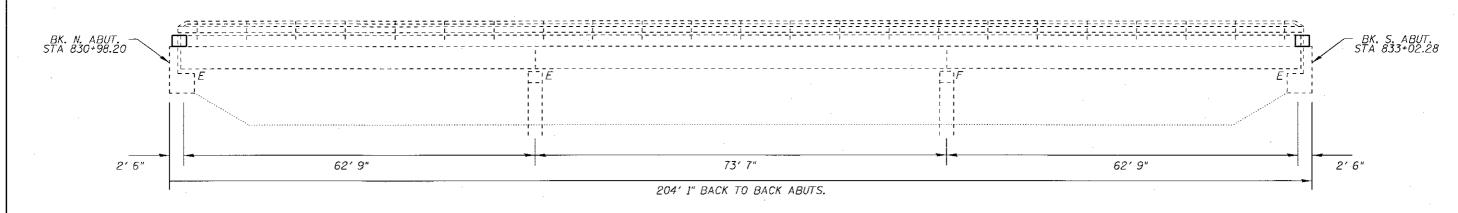
3. AN EXTRA "SIGNAL AHEAD", W3-3(0)-48 SIGN SHALL BE PROVIDED ON EACH END OF THE TRAFFIC CONTROL SETUP. THEY SHALL BE PLACED 200' AFTER THE FIRST SET OF RUMBLE STRIPS IN EACH DIRECTION. OTHER SIGNS AFFECTED BY THIS ADDITION SHALL BE MOVED 500' PRIOR TO THEIR ORIGINAL PLACEMENT LOCATION PER STANDARD 701321 OR AS DIRECTED BY THE ENGINEER.

SHEET

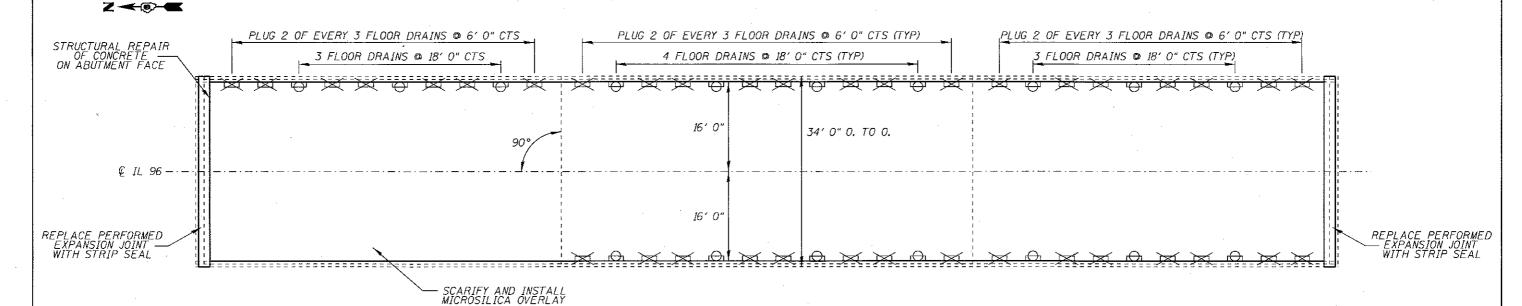
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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/23/2017	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAIL				F.A.P. RTE			COUNTY	TOTAL SHEETS	SHEET NO.	
				510	(120) BRR		HANCOCK	14	8	
								CONTRACT	NO. 72	K14
OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



<u>ELEVATION</u>



<u>PLAN</u>

GENERAL NOTES:

ALL STRUCTURAL STEEL SHALL BE AASHTO M-270 GRADE 36

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING THE NEW CONCRETE DECK, 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 ACCOMPLISED 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 OUANTITY 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.

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.

THE ABUTMENT SURFACE IN THE AREAS OF EXPANSION JOINT REPLACEMENT SHALL HAVE A TINED FINISH AS PER ARTICLE 420.09(e)(D) OF THE STANDARD SPECIFICATIONS, COST INCLUDED WITH CONCRETE SUPERSTRUCTURE. THE DECK SURFACE IN THE AREAS OF EXPANSION JOINT REPLACEMENT SHALL BE GROOVED WITH THE DECK OVERLAY PER ARTICLE 503.16(a)(3)(b) OF THE STANDARD SPECIFICATIONS AND SHALL BE PAID AT THE BID PRICE PER SQUARE YARD FOR "BRIDGE DECK GROOVING."

PROTECTIVE COAT SHALL ONLY BE APPLIED TO THE DECK AND PARAPETS ADJACENT TO THE PROPOSED EXPANSION JOINTS AND NOT THE MICROSILICA OVERLAY.



la Carl / Lynny 9/25/17 Expires 1/30/18

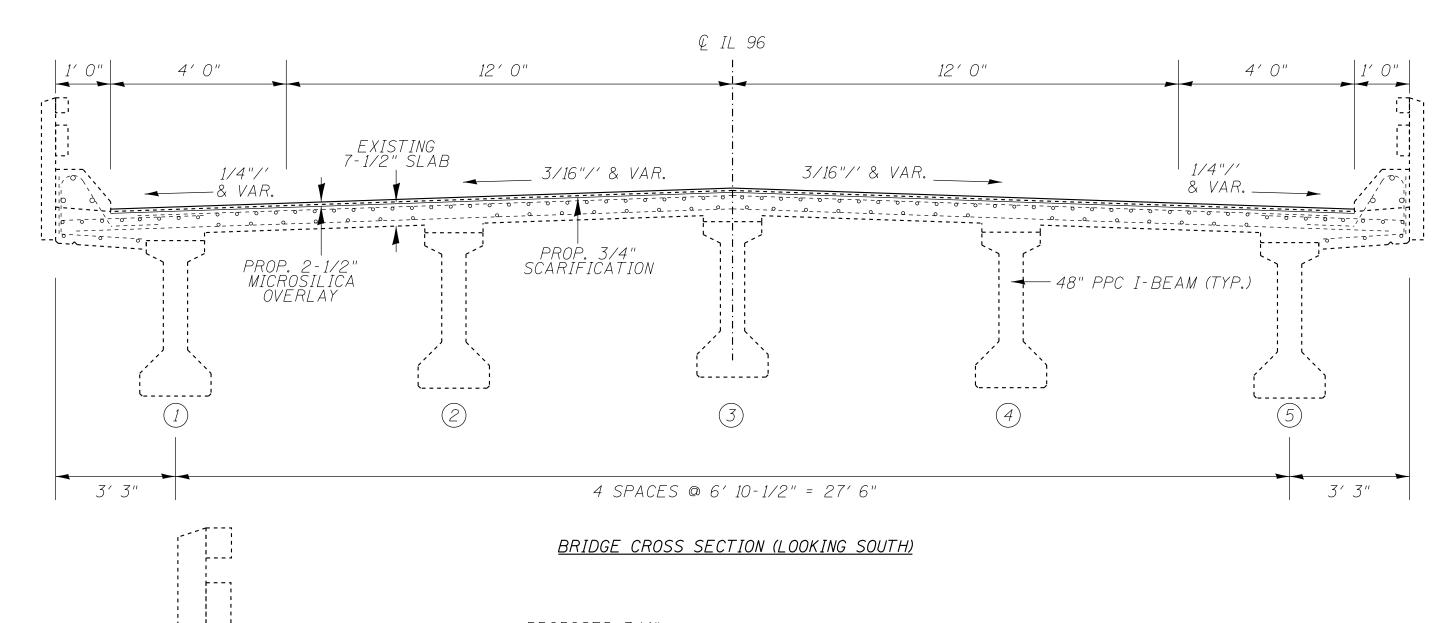
TOTAL BILL OF MATERIAL (034-0026)

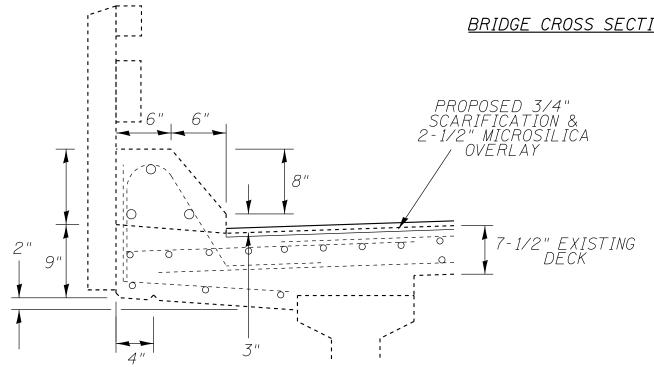
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	3.3
Concrete Superstructure	Cu. Yd.	4.0
Bridge Deck Grooving	Sq. Yd.	663
Reinforcement Bars, Epoxy Coated	Pound	650
Bar Splicers	Each	12
Preformed Joint Strip Seal	Foot	70
Bridge Deck Scarification, 3/4"	Sq. Yd.	708
Bridge Deck Microsilica Concrete Overlay, 2-1/2"	Sq. Yd.	- 708
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	67
Floor Drains	Each	17
Plug Existing Floor Drains	Each	37
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	10
Protective Coat	Sq. Yd.	16

USER NAME = dudleybrn	DESIGNED - BMD	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MLD	REVISED -
BLOT DATE - \$/22/2017	DATE	PEVICED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GE	GENERAL PLAN & ELEVATION					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SN 034-0026				510	(120) BRR	HANCOCK	14	9	
3N 034-0020							CONTRACT		
SHEET 1	OF 6	SHEET\$	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



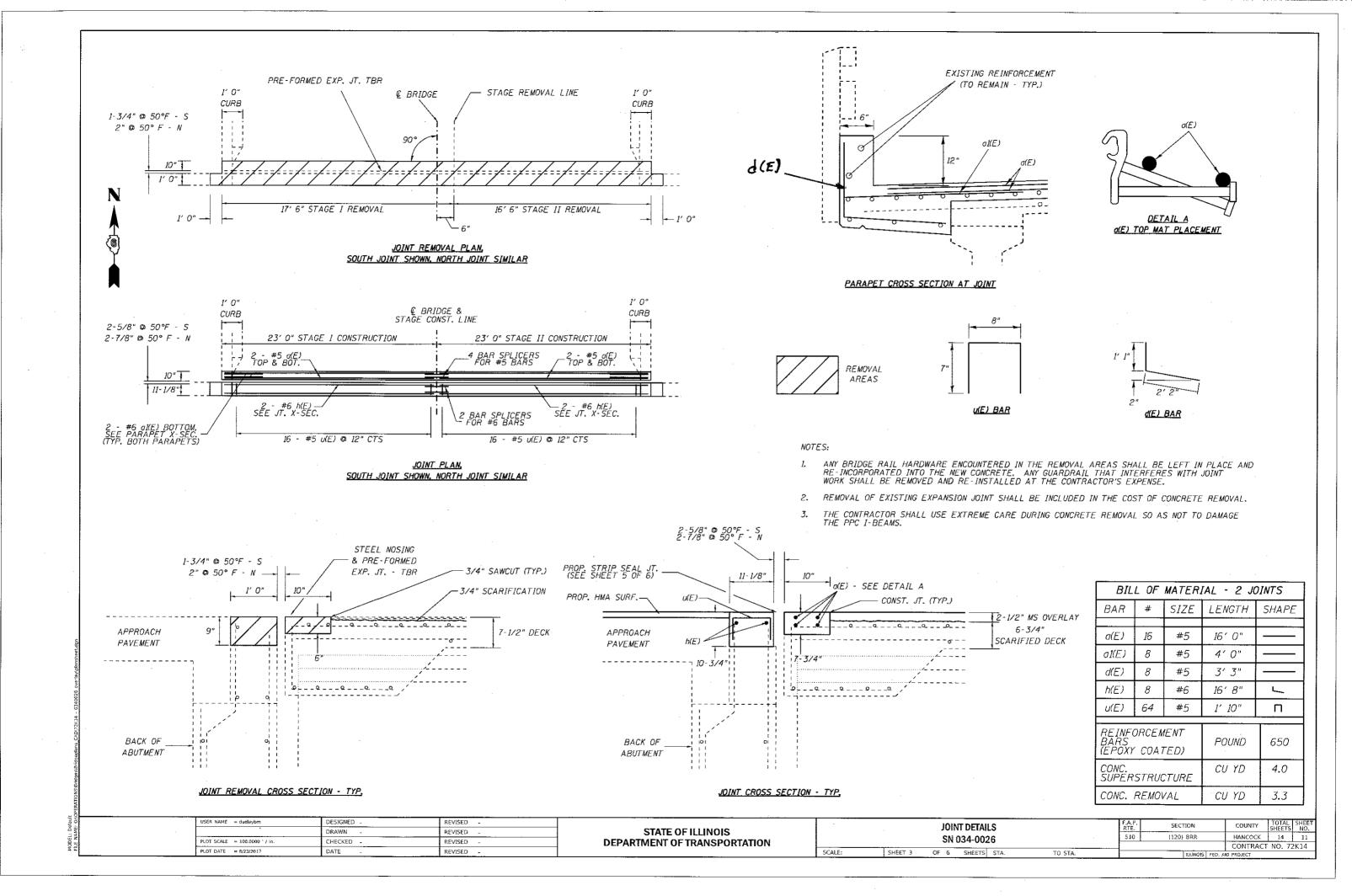


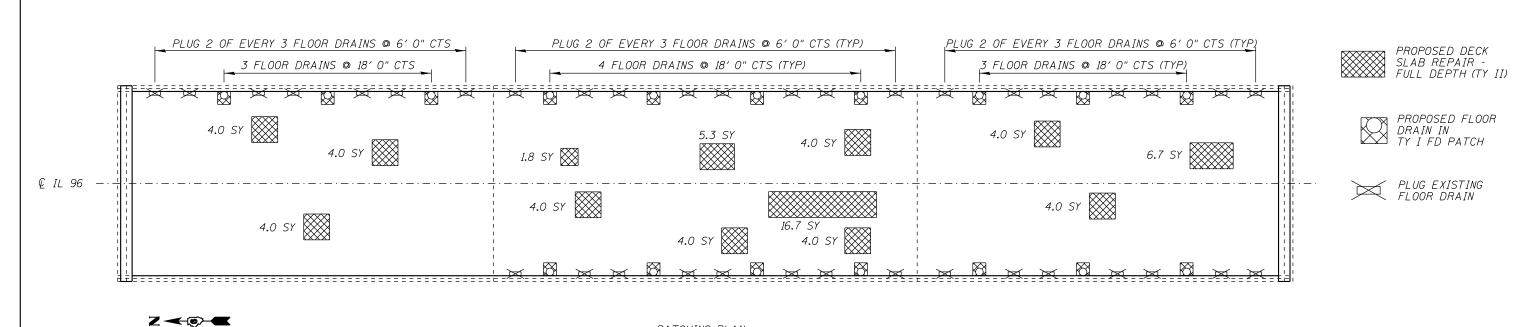
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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 8/23/2017	DATE -	REVISED -	1

CURB CROSS SECTION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		BRIDGE	CROSS S	ECTION		F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
SN 034-0026					510	(120) BRR		HANCOCK	14	10	
		311	00 1 -00	20					CONTRACT	NO. 72	2K14
	SHEET 2	OF 6	SHEETS	STA.	TO STA.		ILLINOIS	FED. A	ID PROJECT		





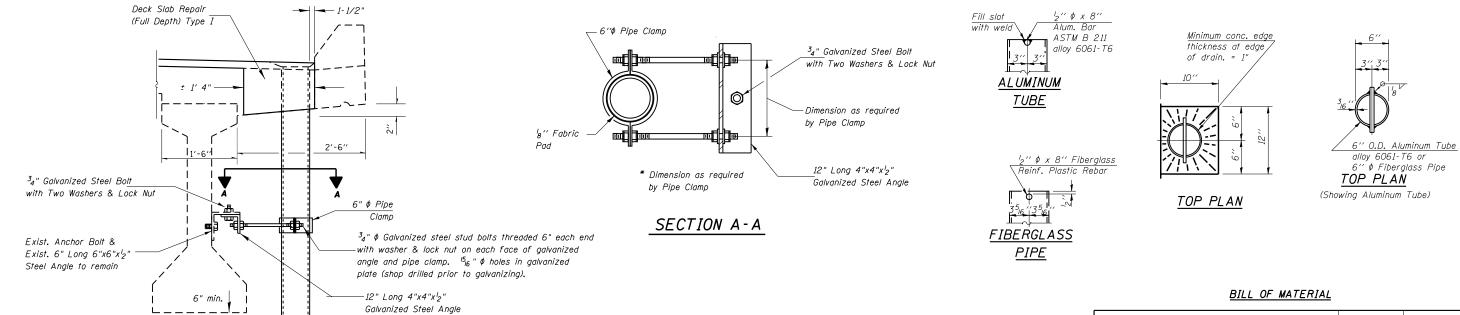
<u>PATCHING PLAN</u>

NOTES:

SECTION AT PROPOSED FLOOR DRAIN

NEW FLOOR DRAINS SHALL BE INSTALLED AFTER SCARIFICATION OPERATIONS ARE COMPLETED FOR EACH STAGE. FULL DEPTH PATCHES APPROXIMATELY 16" SQUARE SHALL BE USED TO REMOVE THE EXISTING FLOOR DRAINS AND INSTALL PROPOSED DRAINS. COST OF EXISTING FLOOR DRAIN REMOVAL SHALL BE INCLUDED WITH FULL DEPTH PATCHING AND WILL NOT BE MEASURED FOR PAYMENT SEPARATELY. THE DECK PATCHES SURROUNDING THE NEW DRAINS SHALL BE CAST FULL DEPTH MONOLITHICALLY WITH THE OVERLAY.

IDENTIFIED PATCHING LOCATIONS NOT ASSOCIATED WITH FLOOR DRAIN INSTALLATION ARE ESTIMATED FROM A DECK SURVEY PERFORMED ON 7/6/2017. THESE LOCATIONS INDICATE PORTIONS OF THE DECK THAT HAVE HIGHER POTENTIAL FOR REQUIRING FULL DEPTH REPAIRS. THE CONTRACTOR SHALL NOT PERFORM FULL DEPTH PATCHING ANYWHERE ON THE DECK UNLESS THE SCARIFICATION OPERATIONS REVEAL THE NEED TO DO SO. THE PATCHING SURVEY INFORMATION IS INCLUDED FOR INFORMATION ONLY.

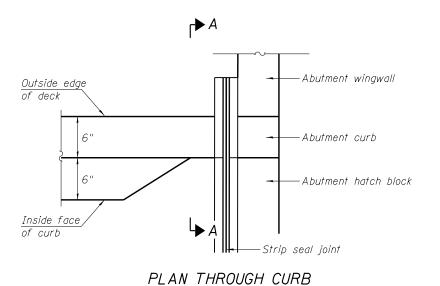


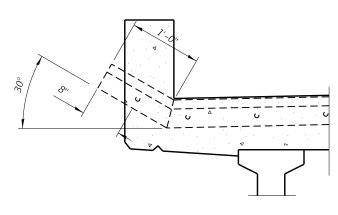
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. Galvanize pipe clamp and angle according to AASHTO M232. Cost of all hardware shown shall be

o. 00,000 p.o														
Galvanize pip	e clamp	and c	angle	according	to.	<i>AASHTO</i>	M232.	Cost	of	all	hardware	shown	shall	b
included in the	bid pric	e for	floor	drains.										

ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	67
Floor Drains	Each	17
Plug Existing Floor Drains	Each	37

	USER NAME = dudleybm	DESIGNED -	REVISED -			DECK F	REPAIR & FI	OOR D	RAIN DETAILS		RTF.	SECTION	COUNTY	SHEETS NO.
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SECTION A-A

Notes

The strip seal shall be made continuous and shall have a minimum thickness of ¼". 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 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

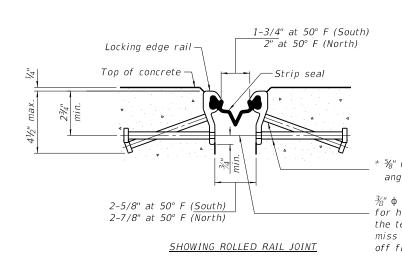
The manufacturer's recommended installation methods shall be followed.

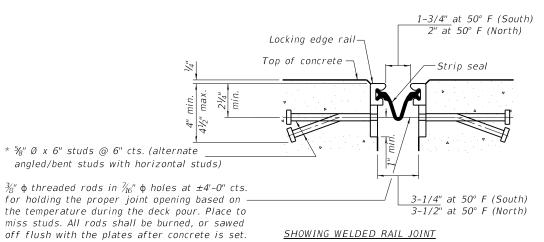
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " 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.

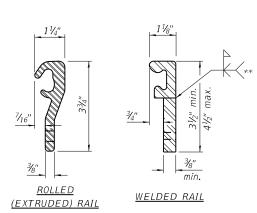
34" F-shape barrier shown, 42" F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on 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.





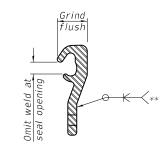
SECTION THROUGH JOINT

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



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	70

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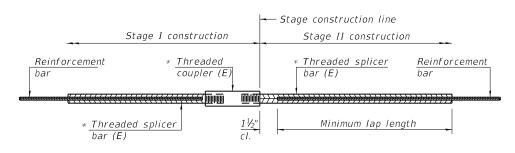
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 034-0026

SHEET 5 OF 6 SHEETS STA.

TO STA.

SCALE:

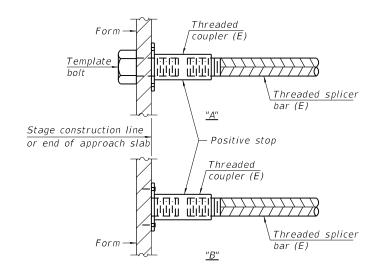


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

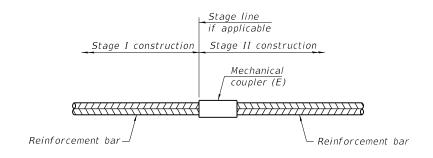
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Abuts, (deck side)	#5	8	3′ 6"
Abuts, (appr. side)	#6	4	4′0"



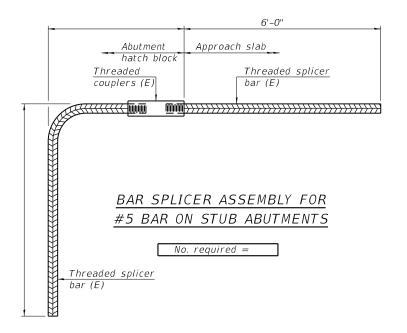
INSTALLATION AND SETTING METHODS

"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

2-17-2017

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

BAR SPLI	CER ASSE	MBLY	ΑΙ	ND MEC	HANICA	ETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SN 034-0026							510	(120) BRR	HANCOCK	14	14	
	3N 034-0020									CONTRACT	NO. 72	2K14
LE:	SHEET 6	OF	6	SHEETS	STA.	TO S	TA.		ILLINOIS FED. A	ID PROJECT		