STATE OF ILLINOIS

* 17 + 1 = 18 TOTAL SHEETS

0-96-018-19

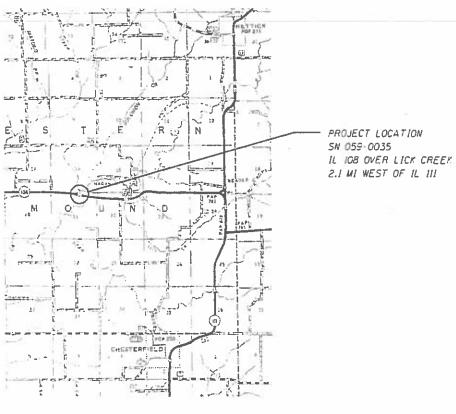
PROPOSED FOR INDEX OF SHEETS, SEE SHEET NO. 2

> HIGHWAY PLANS **FAP ROUTE 761 (IL 108)** SECTION (107) BDR, BJR, BP, BRR PROJECT STP-IP3I(156) **BRIDGE DECK OVERLAY**

DEPARTMENT OF TRANSPORTATION

C-96-026-19

MACOUPIN COUNTY



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 72K97

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

GROSS LENGTH = 453 FT = 0.09 MILE NET LENGTH = 453 FT. = 0.09 MILE

0

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

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

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

REV. - MS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, SIGNATURES, GENERAL NOTES, & SCHEDULES
- 3-4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
- 6 ROADWAY PLAN
- 7 STAGING PLAN
- 8 TRAFFIC CONTROL PLAN
- * 9-17 SN 059-0035 BRIDGE PLANS

★ INCLUDES SHEET 14A

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 Oct 10 20 18
EXAMINED Oct 10 20 18
EXAMINED Oct 10 20 18
ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED Oct 12 20 18

EXAMINED Oct 12 20 18

EXAMINED Oct 12 20 18

PROGRAM DEVELOPMENT

STANDARDS

000001-07 001001-02 001006 701001-02 701006-05 701201-05 701301-04 701321-17 701326-04 701901-08 704001-08 780001-05 782006

		PA	VING SCHEDUL	Ε	
STA	TO	STA	BIT MATL (TACK CT)	HMA SURF COURSE	INCID HMA SURF
0,7,1		0.,,	(POUND)	(TON)	(TON)
637+70	-	638+55	119	26	1=1
538+55	-	639+45	144	32	154
640+75	-	642+40	264	58	-
HAC	SAMAN	RD.	36	UI.	9
		TOTALS	563	116	9

	PAVE	EMENT MARK	(ING RE	MOVAL SCHEDULE	
STA	то	STA	LOC.	LINE TYPE	PAVT MARK REM (SO FT)
STAGE I		,			
635+20	- 1	639+00	E	DOUBLE SOLID	317
638+50	-	641+90	RT	SOLID	142
641+25	-	643+90	Ę	SOLID/SKIP	138
STAGE II					
638+00	-	639+45	LT	SOLID	60
640+75	-	641+90	LT	SOLID	48
				TOTAL	705

			SHOULD	ER IMPROVEMENT	SCHEDULE		
				BASE COURSE	PAVED	EARTH EX.	AGG WEDGE
STA	TO	STA	SIDE	WIDENING 8"	SHLDR REM	WIDENING	SHLDR
				(SO YD)	(SO YD)	(CU YD)	(TON)
637+70	-	639+25	LT	-	-	-	5.9
638+55	-	639+25	RT	31	23	6.9	2.7
640+95	-	642+40	LT	*	-	-	5.5
640+95	-	642+40	RT	65	49	14.3	5.5
			TOTALS	96	72	21.2	19.6

M[XTURE 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	OC/QA	OC/OA
SUBLOT SIZE	N/A	N/A

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

USLR NAML = dudleybm	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100,0000 ' ' in.	CHECKED -	REVISED -	
PLOT DATE = 10/17/2018	DATE -	REVISED -	

6-01032-0000 SN 059-0035 80/20 FED/ST

				80/20 FED/ST
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0047 MACOUPIN
20200500	EARTH EXCAVATION (WIDENING)	CU YD	21.2	21.2
35650300	BASE COURSE WIDENING 8"	SQ YD	96	96
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	563	563
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	753	753
40600990	TEMPORARY RAMP	SQ YD	125	125
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	116	116
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	9	9
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	20	20
50102400	CONCRETE REMOVAL	CU YD	3. 8	3. 8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	4.4	4.4
50300260	BRIDGE DECK GROOVING	SQ YD	425	425
50300300	PROTECTIVE COAT	SQ YD	18	18
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	700	700
50800515	BAR SPLICERS	EACH	12	12
		<u> </u>		

6-01032-0000	
SN 059-0035	
80/20 FED/ST	

CODE			TOTAL	BRIDGE 0047
NO.	ITEM	UNIT	QUANTITY	MACOUPIN
52000110	PREFORMED JOINT STRIP SEAL	FOOT	76	76
57000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
	·			
7100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	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	3	3
0300100	SHORT TERM PAVEMENT MARKING	FOOT	100	100
0300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	33	33
0400100	TEMPORARY CONCRETE BARRIER	FOOT	400	400
0400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350	350
0600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
0600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 10/17/2018	DATE -	REVISED -

	CUMMADVOFQUANTITIES						F.A.P. SECTION		TOTAL SHEETS	SHEET NO.
	SUMMARY OF QUANTITIES					761	(107) BDR, BJR, BP, BRR	MACOUPIN	17	3
							CONTRACT	NO. 72	2K97	
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED AID PROJ			

6-01032-0000 SN 059-0035 80/20 FED/ST

					BRIDGE
	CODE			TOTAL	0047
	NO.	ITEM	UNIT	QUANTITY	MACOUPIN
*	78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	1900	1900
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	705	705
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	120	120
	X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
*	Z0007114	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES	L SUM	1	1
*	Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
	Z0012130	BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	448	448
	Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2-1/2"	SQ YD	448	448
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	50	50
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	14	14
	Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	2	2

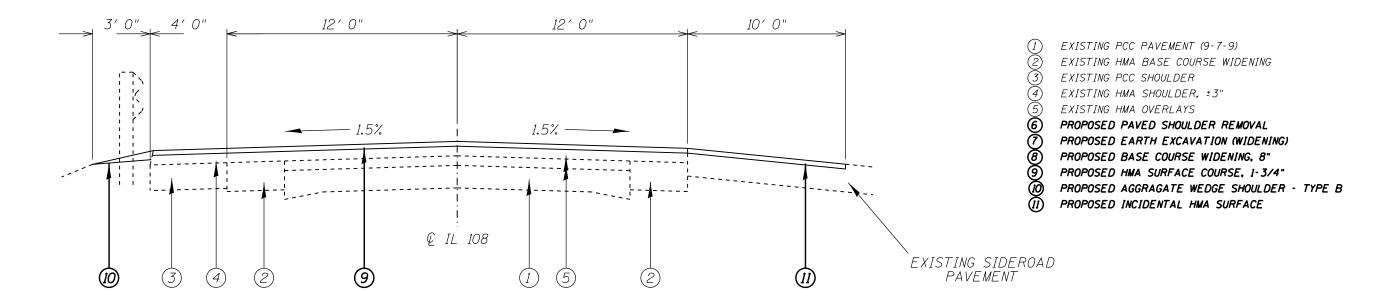
* SPECIALTY ITEM

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/17/2018	DATE -	REVISED -

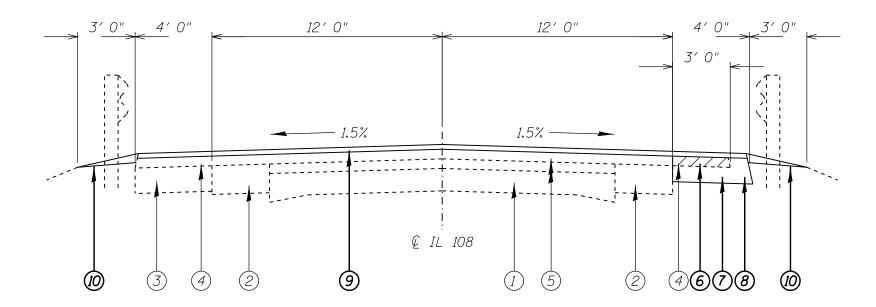
SCALE:

	SUMMARY OF QUANTITIES					F.A.P. RTE.	SECTION			SHEET NO.
						761	(107) BDR, BJR, BP, BRR	MACOUPIN	17	4
								CONTRACT	NO. 72	2K97
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

MODEL: Default FILE NAME: \\Centra\\d6\OPERATIONS\B



STA 637+70.00 TO STA 639+55.00



STA 638+55.00 TO STA 639+44.99 * STA 640+75.02 TO STA 642+40.00 *

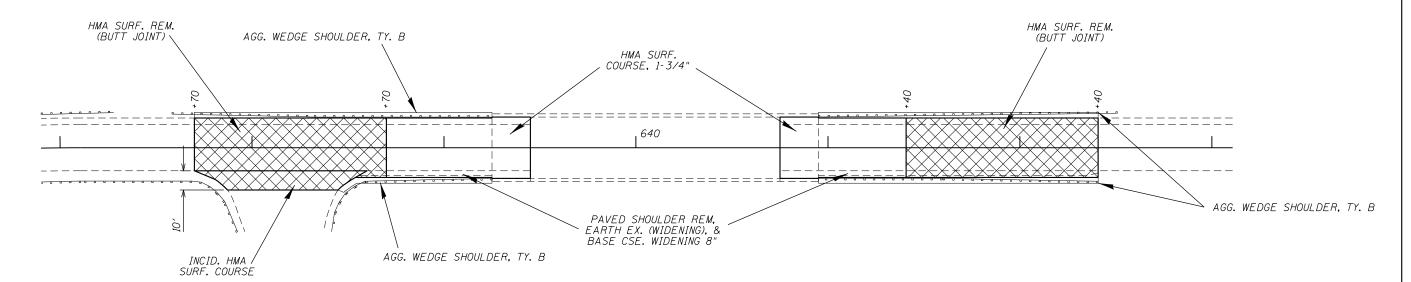
* BRIDGE APPROACH PAVEMENT STA 639+24.99 TO STA 639+44.99 STA 640+75.02 TO STA 640+95.02

USER NAME = dudleybm	DESIGNED -	REVISED -					F.A.P.	SECTION	COUNTY	TOTAL SHEET		
	DRAWN -	REVISED -	STATE OF ILLINOIS		TYPICAL SECTIONS		761	(107) BDR, BJR, BP, BRR	MACOUPIN	17 5		
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRACT	NO. 72K97
PLOT DATE = 10/17/2018	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	

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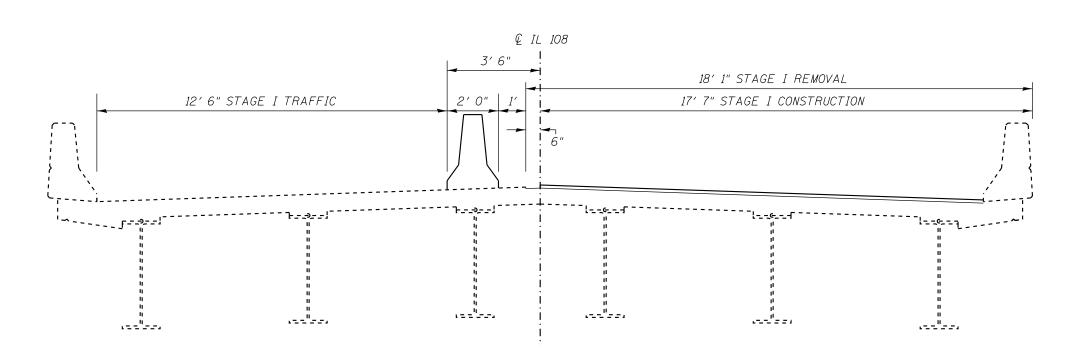
STA 637+70.00 TO STA 639+55.00



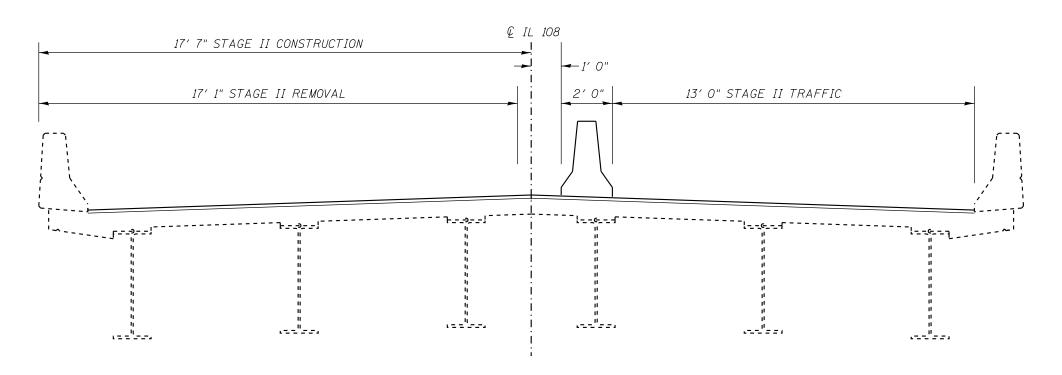
ROADWAY PLAN

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 10/17/2018	DATE -	REVISED -

						F.A.P. RTE	SECTION	COUNTY TOTAL SHEET		SHEET NO.
	ROADWAY PLAN				761	(107) BDR, BJR, BP, BRR	MACOUPIN	6		
							CONTRACT	NO. 72	2K97	
SHEET OF SHEETS STA. TO STA.						ILLINOIS FED. A	ID PROJECT			

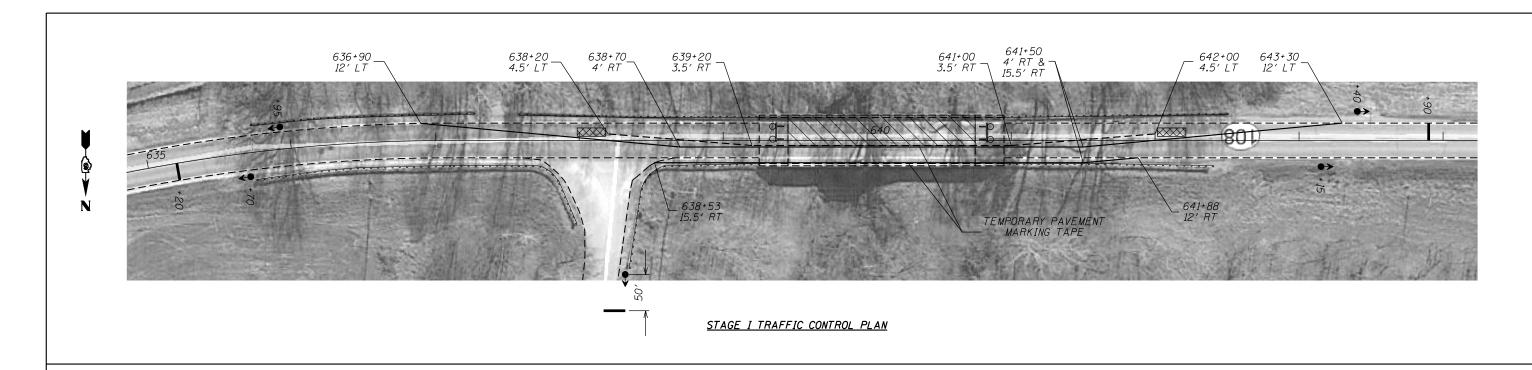


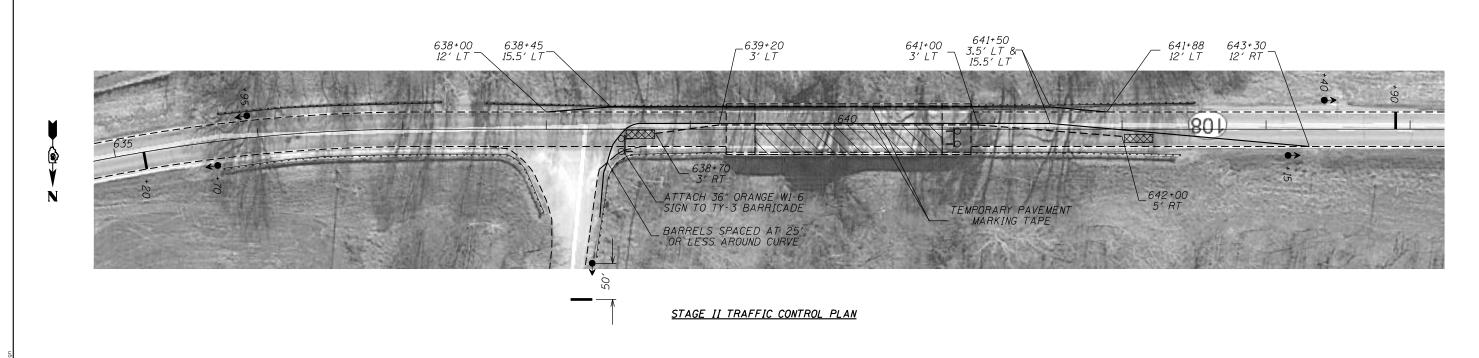
STAGE I CROSS SECTION (LOOKING EAST)



STAGE II CROSS SECTION (LOOKING EAST)

USER NAME = dudleybm	DESIGNED -	REVISED -							F.A.P. RTF	SECTION	COUNTY TOTAL SHEETS	SHEET	
	DRAWN -	REVISED -	STATE OF ILLINOIS	TRAFFIC STAGING PLAN				761	(107) BDR. BJR. BP. BRR	MACOUPIN 17	7		
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								(141) 211) 211)	CONTRACT NO. 72	2K97
PLOT DATE = 10/17/2018	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	





SYMBOLS

WORK AREA

TEMPORARY CONCRETE BARRIER

IMPACT ATTENUATOR

←●

TRAFFIC SIGNAL

-

TYPE III BARRICADE WITH FLASHING LIGHTS

TRAFFIC CONTROL NOTES:

1. 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, 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 STAGE I BARRIER WALL TAPERS SHALL BE 12:1. FOR STAGE II, THE WEST BARRIER WALL TAPER SHALL BE 12:1 AND THE EAST SHALL BE 8:1.

3. RUMBLE STRIPS SHOWN IN STANDARD 701321 WILL ONLY BE REQUIRED ON THE WESTBOUND LANE.

SHEET

USER NAME = dudleybm	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 10/17/2018	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL F	F.A.F RTE		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
TRAFFIC CONTROL PLAN			51 (107)	BDR, BJR, BP,	BRR	MACOUPIN	17	8
					CONTRACT	NO. 72	K97	
OF SHEETS ST	A. TO	STA.	ILLINOIS FED. AID PROJECT					

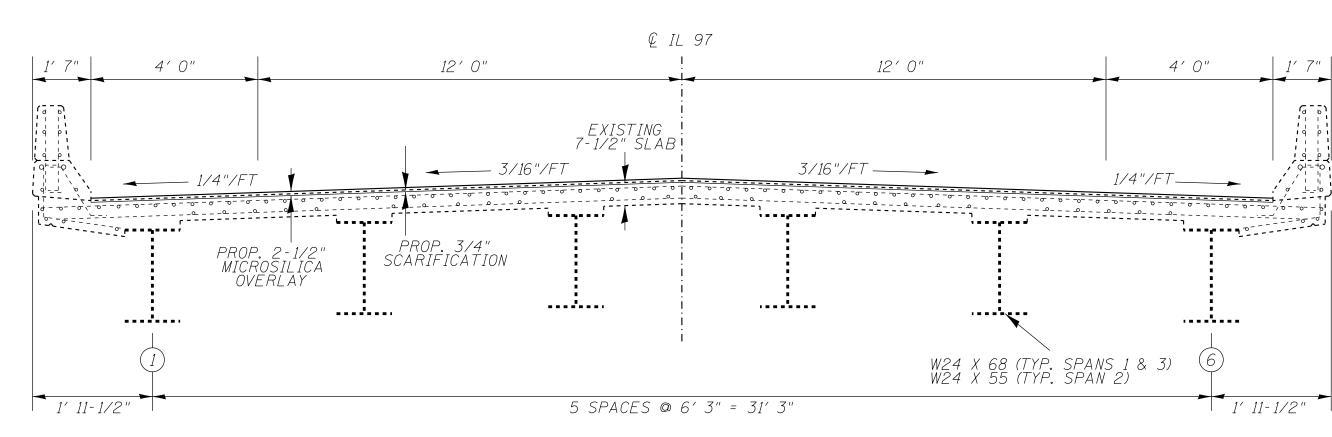
AREAS TO BE CLEANED AND PAINTED SHALL ONLY CONSIST OF ALL BEAM ENDS, END DIAPHRAGMS, AND STEEL COMPONENTS OF BEARINGS AT BOTH ABUTMENTS. BEAM END PAINTING (12 ENDS) SHALL EXTEND S' FROM THE ENDS OF THE BEAM LONGITUDINALLY. BEAM END PAINTING AT THE EAST END OF THE SUDTH FASCIA BEAM ONLY SHALL EXTEND OF THE FIND OF THE BEAM LONGITUDINALLY. CLEANED PAINTING OF THE EXISTING STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS OF CLEANING AND PAINTING EXISTING STEEL STRUCTURAL AREAS TO BE PAINTED CHARLE DEAR WHITE BLAST CLEANING PER SSPC SP-10. ALL EXISTING STEEL CLEANED SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZZEZU. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN, MUNSELL 7.56 4/8. ALL OTHER SURFACES SHALL BE GRAY, MUNSELL 5B 771. THE SSPC-OP-1 PAINTING CONTRACTOR CERTIFICATION WILL BE REQUIRED. THE USE OF AIR MONITORS WILL NOT BE REQUIRED. FINISH COAT SHALL NOT BE APPLIED UNTIL AFTER ALL ADJACENT STRUCTURAL WORK IS COMPLETED. THE ABUTMENT AND DECK SURFACES IN THE AREAS OF EXPANSION JOINT REPLACEMENT SHALL HAVE A TIMED FINISH AS PER ARTICLE 420,09(0XII) OF THE STANDARD SPECIFICATIONS, COST INCLUDED WITH CONCRETE SUPERSTRUCTURE. EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTEMED, AND INCORPORATED INTO THE NEW CONSTRUCTION. DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH 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, 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 MOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED. SYNTHETIC FIBERS SHALL BE ADDED TO THE BRIDGE DECK MICROSILICA CONCRETE OVERLAY, SEE SPECIAL PROVISIONS. STRUCTURE GENERAL NOTES: WITH CONCRETE. TIGH: IN CONCRETE REMOVAL. ALL STRUCTURAL STEEL SHALL BE AASHTO M-270 GRADE 36, UNLESS OTHERWISE NOTED. PROTECTIVE COAT SHALL ONLY BE APPLIED TO THE DECK AND PARAPETS ADJACENT TO THE PROPOSED EXPANSION JOINTS AND NOT THE MICROSILICA OVERLAY. IOINT 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. REPLACE EXPANSION JOINT WITH STRIP SEAL 8K, E. ABUT. STA 639+44.99 **Z** - (9) = 10/17/2018 SCARIFY AND PLACE MICROSILICA OVERLAY Q M El ジエス REVISED 42 W24 X 68 35' 2" QUT TO OUT 5-1/4" 32' O" FACE TO FACE STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION STAGE REMOVAL LINE 30' 0-3/8" BK. 127' 9" END TO END OF DECK ANY REINFORCEMENT BARS THAT ARE DAMAGED <u>WZ4 X 55</u> 43' 0-1/2" TO BK. ABUTS. 6" V 17′ 7" STG. II CONST. 17' 7" STG. I CONST. 42, W24 X 68 idge 3-1/4 orcement Removal Superstructure And Painti BRIDGE PLAN & ELEVATION Joint Microsi SN 059-0035 Strip (Full ŒШ of Concr Seal Вe Dept th, Type II) Coated te (Depth Equal to or Less Than 5 Inches) Non-Lead Paint Cleaning Residues Bridge No. 1 TOTAL BILL OF MATERIAL (059-0035) ITEM DRAINAGE SCUPPERS TO BE ADJUSTED 2-1/2" 801 TI 3 STORY OF THE PARTY REPLACE EXPANSION JOINT WITH STRIP SEAL SECTION COUNTY SHEETS NO. (107) BDR. BJR. BP. BRR MACQUPIN 17 9 CONTRACT NO. 72K97 Мо. Sq. Yd. Sq. Yd. Sq. Yd. Pound ļģ. UNIT Each Foot

OUANTITY

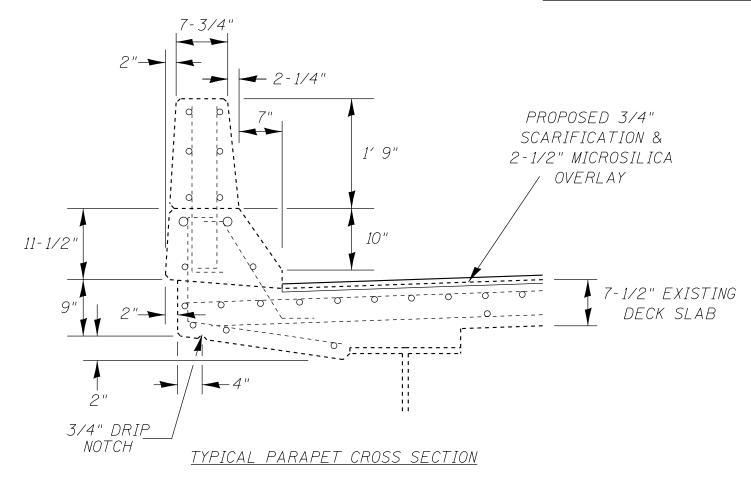
3.8 4.4 425 700 12

76 448 448 18

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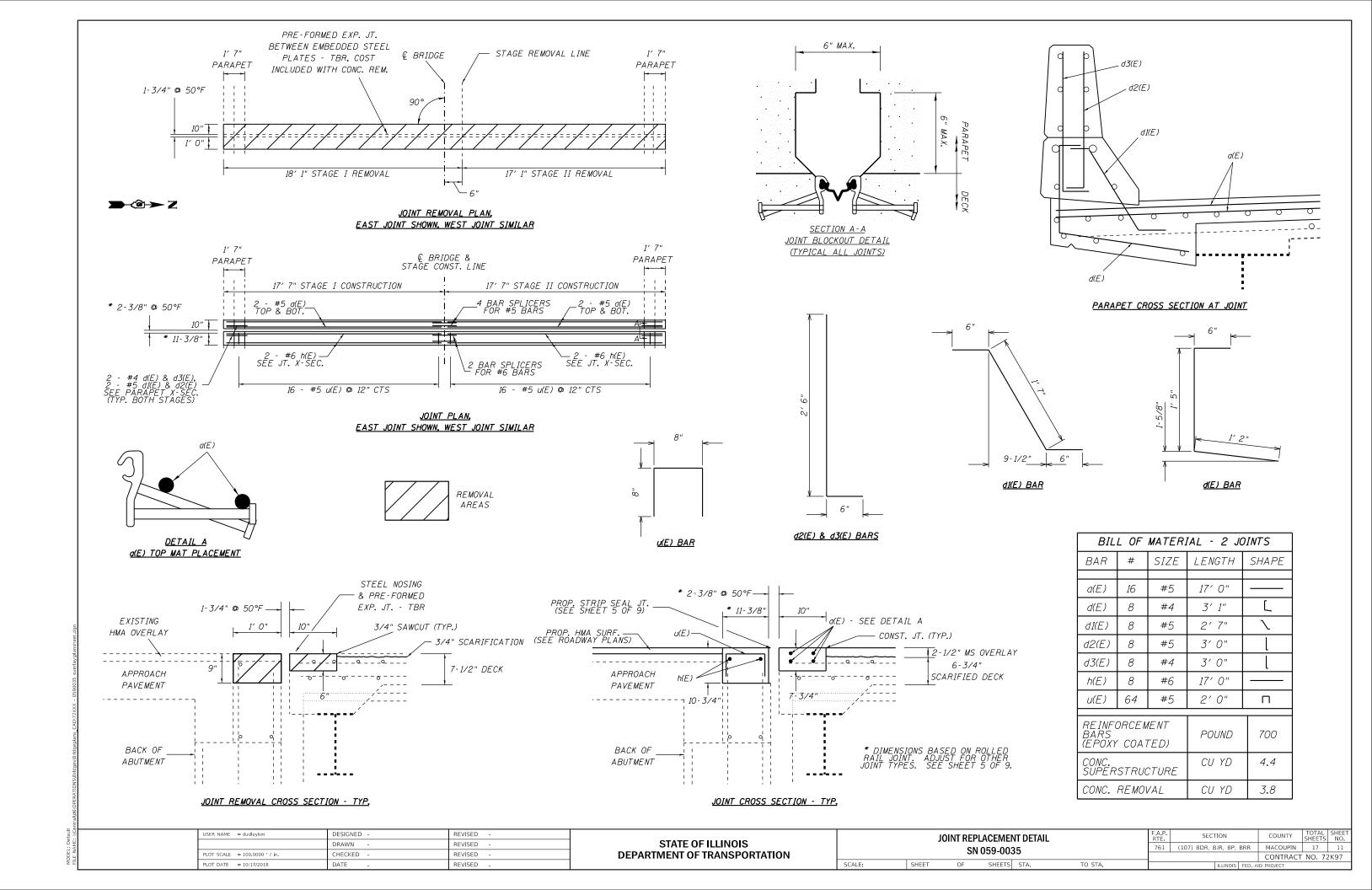
BRIDGE CROSS SECTION, LOOKING WEST

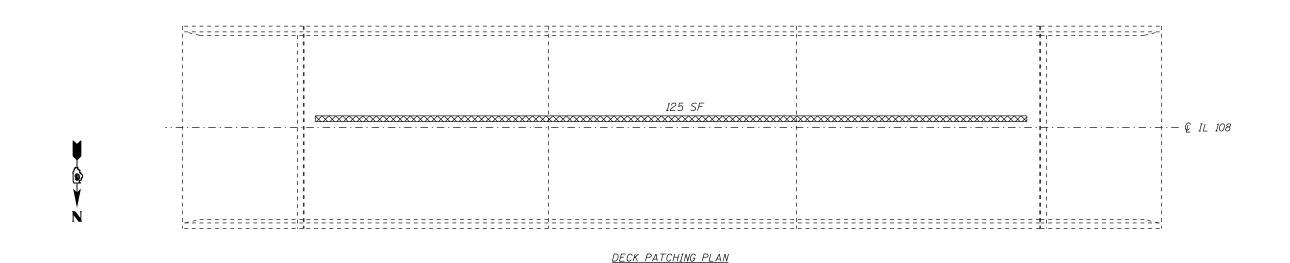


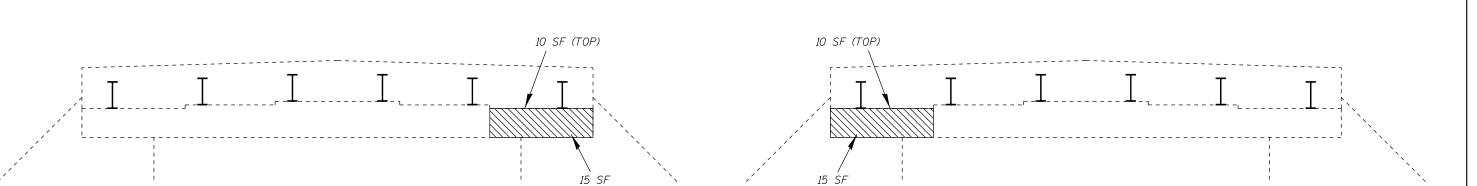
USER NAME = dudleybm	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/17/2018	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CROSS SECTION				F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SN 059-0035					761	(107) BDR, BJR, BP, BRR	MACOUPIN	17	10
311 009-0030							CONTRACT	NO. 72	2K97
SHEET OF SHEETS STA. TO STA.					ILLINOIS FED. A	ID PROJECT			





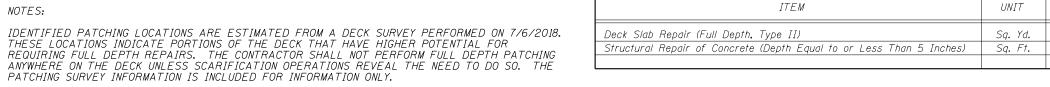


EAST ABUTMENT ELEVATION WEST ABUTMENT ELEVATION

DECK PATCHING & SUBSTRUCTURE REPAIR BILL OF MATERIAL

QUANTITY

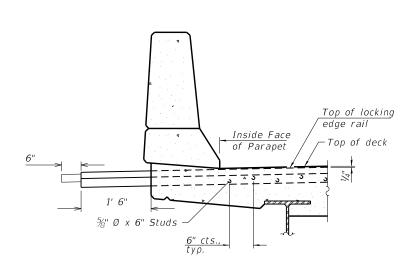
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PROPOSED STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) PROPOSED DECK SLAB REPAIR (FULL DEPTH)

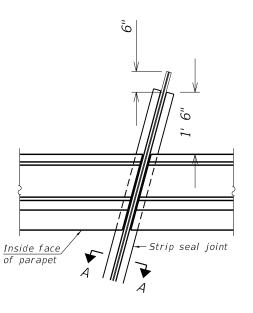
THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

JSER NAME = dudleybm DESIGNED -REVISED SECTION COUNTY **DECK & SUBSTRUCTURE REPAIR DETAILS** STATE OF ILLINOIS DRAWN REVISED 17 12 761 (107) BDR, BJR, BP, BRR MACOUPIN SN 059-0035 **DEPARTMENT OF TRANSPORTATION** LOT SCALE = 100.0000 ' / in. CHECKED REVISED CONTRACT NO. 72K97 SCALE: SHEET SHEETS STA. TO STA. REVISED PLOT DATE = 10/17/2018 DATE



ELEVATION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



PLAN AT PARAPET (Skews < 30°)

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

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

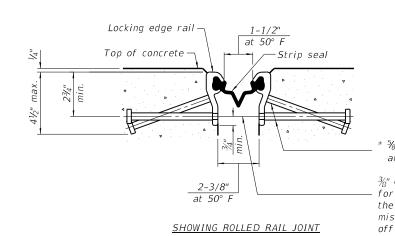
The manufacturer's recommended installation methods shall be followed.

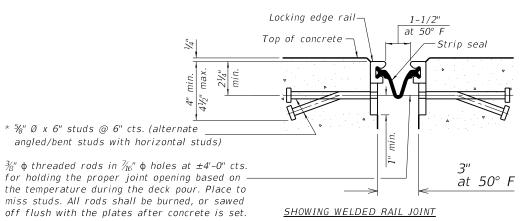
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

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.

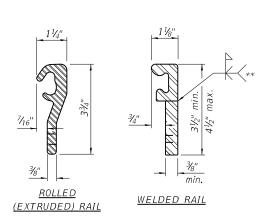
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to 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.





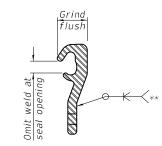
SECTION A-A

* 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	76

EJ-SS (MODIFIED) 8-11-17

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 10/17/2018	DATE -	REVISED -

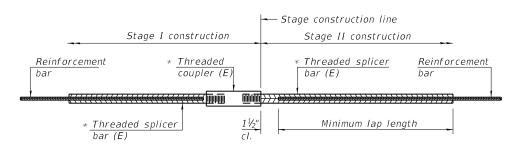
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PREFORMED JOINT STRIP SEAL STRUCTURE NO. 059-0035						
	31	ROCIO	TE NO. C	159 - 0055		
	SHEET	OF	SHEETS	STA.		

TO STA.

SCALE:

F.A.P. RTE	SECT	ΠΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
761	(107) BDR, E	MACOUPIN	17	13		
			CONTRACT	NO. 72	2K97	
		ILLINOIS	FED. A	ID PROJECT		

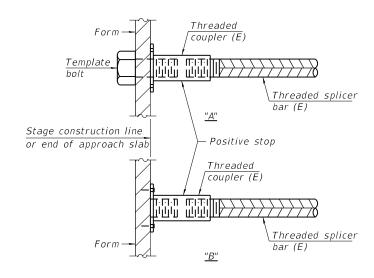


STANDARD BAR SPLICER ASSEMBLY

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

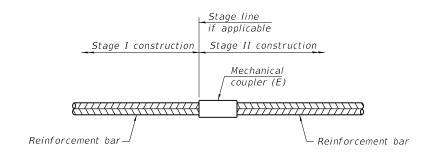
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

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



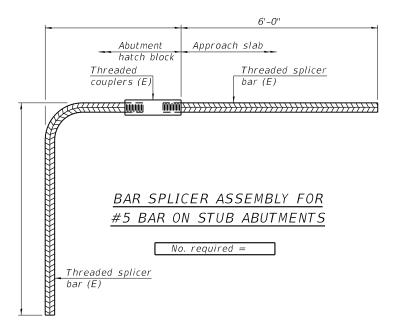
INSTALLATION AND SETTING METHODS

"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

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 10/17/2018	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

BAR SPLI	CER ASSEN	ИBLY A	ND MEC	HANICAL	. SPLICER DETAILS	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
SN 059-0035					761	(107) BDR, BJR, BP,	BRR	MACOUPIN	17	14	
214 033-0033									CONTRACT	NO. 72	2K97
LE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. A	ID PROJECT		

_E NAME: \\Central\d6\OPERATIONS\Bridg

GENERAL NOTES

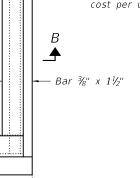
All structural steel shall conform to AASHTO Classification M-270 Gr. 36. The adjusting scupper ring shall be galvanized.

Bolts shall be $\frac{1}{2}$ "Ø, AASHTO M164 Type I, mechanically galvanized.

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

The contractor shall ensure that no damage is done to existing grates to be reused. Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.

Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Drainage Scuppers to be Adjusted.



Spacer Existing Grate | Spacer | Existing Grate | Spacer | Spacer

SECTION A-A

3'-3"

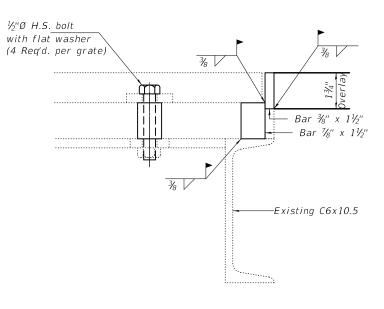
PLAN

— Bar ¾" x 1½"

∟ Bar 7/8" x 11/2"

 $A \blacktriangleleft_1$

— Existing parapet face

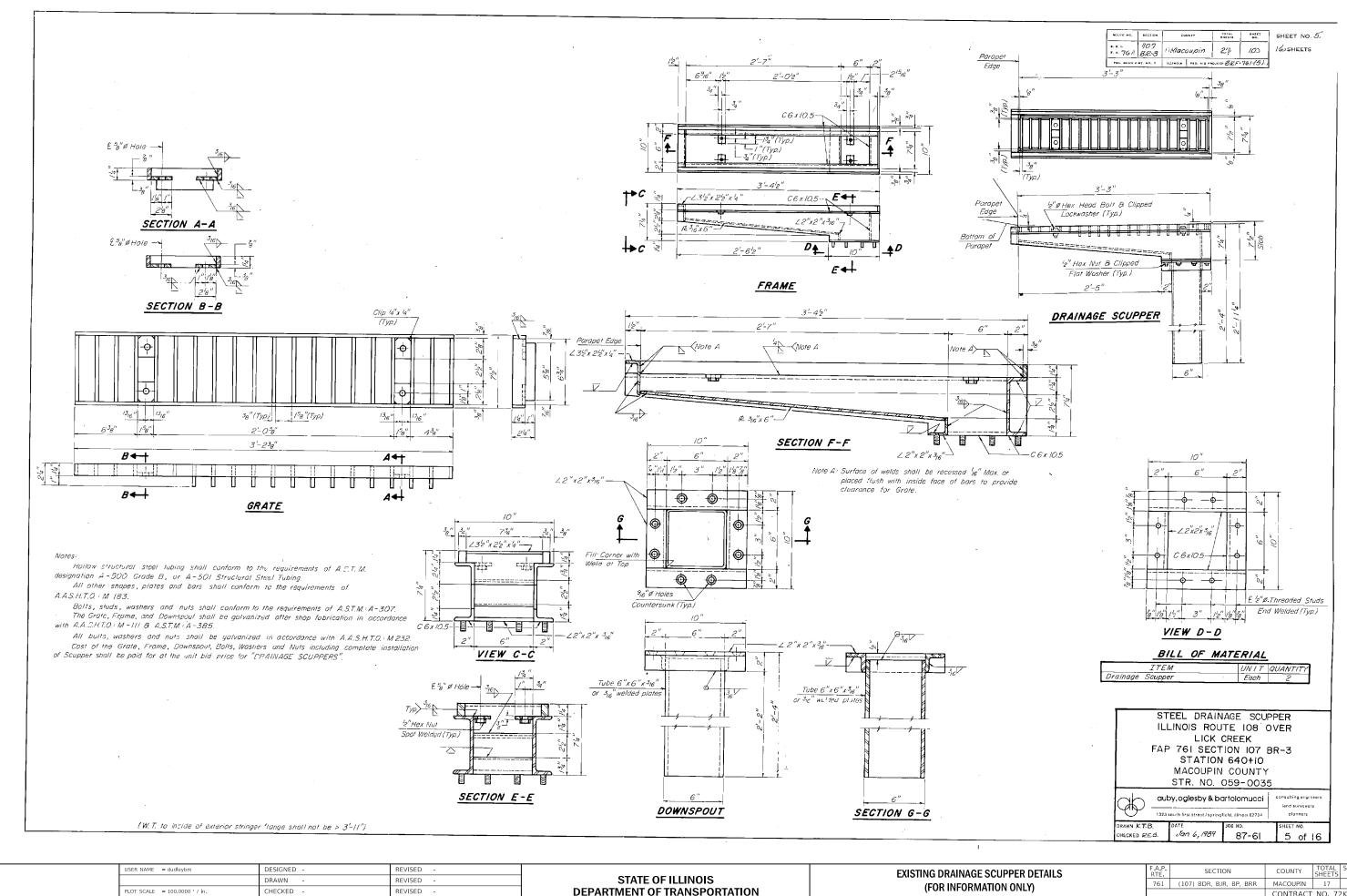


SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Drainage Scuppers to be Adjusted	Each	4

DESIGNED -	EXAMINED	DATE - NOVEMBER 19, 2018		ADJUSTING EXISTING SCUPPER	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	·	STATE OF ILLINOIS	SN 059-0035	761 (107)BDR,BJR,BP,BRR	MACOUPIN 17 14A
DRAWN - daburdell	PASSED	REVISED -	DEPARTMENT OF TRANSPORTATION	2N 032-0033		CONTRACT NO. 72K97
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 1 OF 1 SHEETS	ILLINOIS FED. A	AID PROJECT

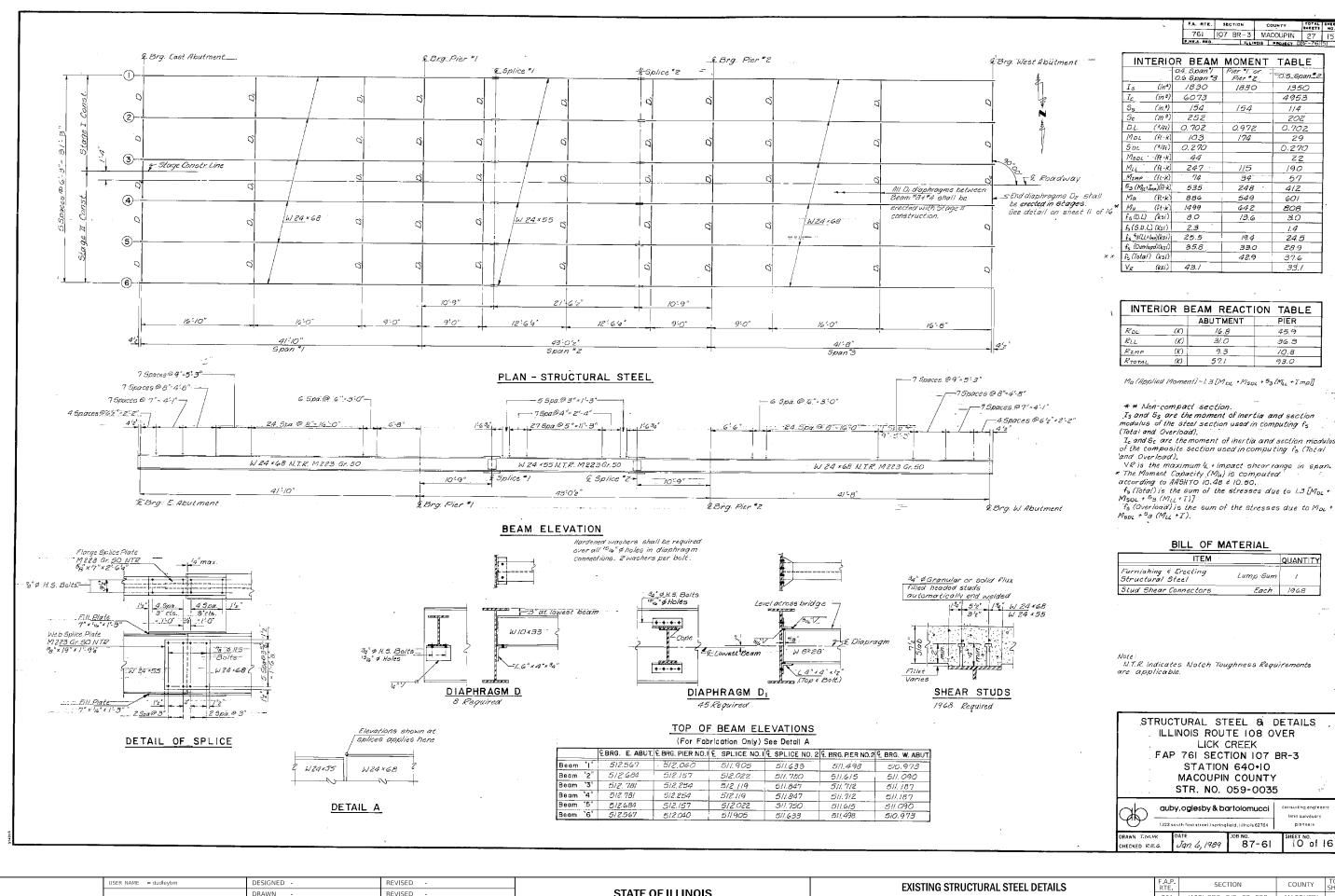


PLOT DATE = 10/17/2018

DATE

DEPARTMENT OF TRANSPORTATION

(FOR INFORMATION ONLY) TO STA. 761 (107) BDR, BJR, BP, BRR MACOUPIN 17 15 CONTRACT NO. 72K97



HECKED

DATE

PLOT DATE = 10/17/2018

REVISED

REVISED

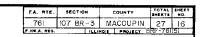
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** (FOR INFORMATION ONLY)

SHEETS STA

TO STA.

SCALE:

761 (107) BDR, BJR, BP, BRR MACOUPIN 17 16 CONTRACT NO. 72K97



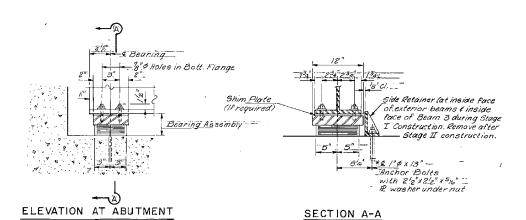
138 & Holes in top plate for 19 & pintles. Thread or press fit

*& !" & x 14" Anchor bolts
with 22"x22".x 516" R washer
under nut, !/2" & noles in
boltom plate.

in bottom plate.

2'2" - 2'2" 2'2"

SECTION B-B



TYPE I TEE ELASTOMERIC EXP. BRG.

ELEVATION AT PIER

FIXED BEARING

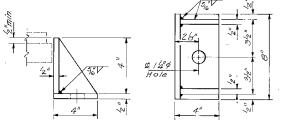
R 15"x 9"x 10"(M223, Gr 50) R 13" x 9" x 17'2" (M 223, GF. 50)

=Shim P (If required)

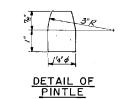
Notes:

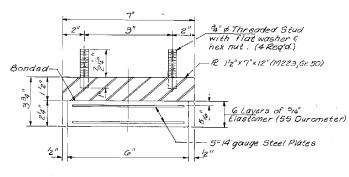
Anchor bolts at fixed bearings may be built into the masonry.

See Sheet 12 5176 for Anchor Bolt, Installation

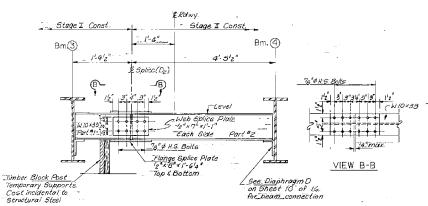


SIDE RETAINER Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.





BEARING ASSEMBLY TYPE I Note: Shim plates shall not be placed under Bearing Assembly.



SCALE:

DIAPHRAGM D2 CONSTRUCTION SEQUENCE

I. Attach part #I, with top splice plate attached, to Beam #3 during Stage I Construction. 2.Place Temporary Support System between part #I of diaphragm D2 and the abutment bearing seat and complete Stage I Construction. 3.Altach part #2 of diaphragm D2 to both Beam #4 and part #I during Stage II Construction. 4.Remove Temporary Support System.

BEARINGS ILLINOIS ROUTE 108 OVER LICK CREEK FAP 761 SECTION 107 BR-3 STATION 640+10 MACOUPIN COUNTY STR. NO. 059-0035

BILL OF MATERIAL

Elastomeric Bearing

Assembly, Type I

QUANTITY

12

Each.

ab	auby,oglesby 8
4	1323 south first street /s

& bartolomucci springtie d, i'linals 62704 planners

M.W. JOHE JOB NO. SHEET NO. 11. of 16		(
r.e.g. Jan. 6,1989 87-61 11. of 16	M.W.	DATE		
	R.E.G.	Jan. 6, 1989	87-61	II. of I6

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/17/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL STEEL DETAILS	
(FOR INFORMATION ONLY)	

SECTION COUNTY 761 (107) BDR, BJR, BP, BRR MACOUPIN 17 17 CONTRACT NO. 72K97

SHEETS STA. SHEET

TO STA.

DIAPHRAGM D₂ 2 Required