09-16-2016 LETTING ITEM 039

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

IL 37 TRAFFIC DATA

2015 ADT = 3,850 11 % TRUCKS

TOWNSHIP:

DODDS

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0

POSTED SPEED LIMIT

55 MPH

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

PROJECT ENGINEER: DAVID PICHE PROJECT DESIGNER: T. WAYNE HALSTEAD

STATE OF ILLINOIS

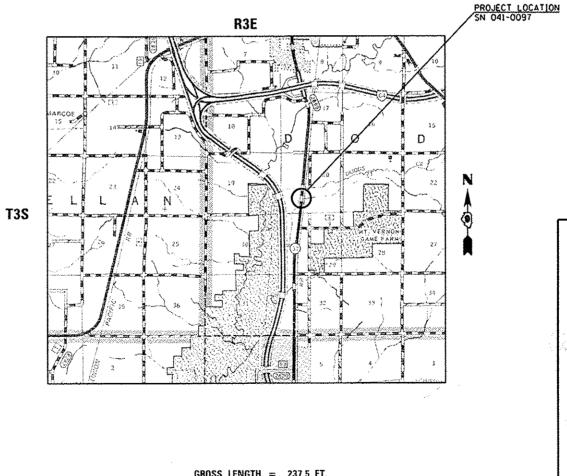
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED **HIGHWAY PLANS**

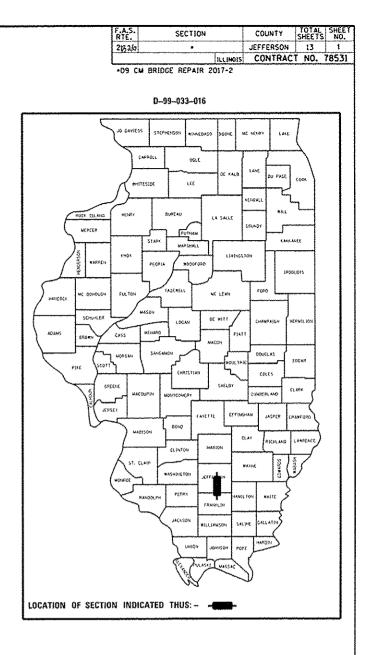
FAS 2826 (IL 37) **OVER DODDS CREEK** D9 CM BRIDGE REPAIR 2017-2 **JEFFERSON COUNTY**

C-99-033-16



GROSS LENGTH = 237.5 FT

CONTRACT NO. 78531



STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

SUBMITTED June 14 20 16 REGION FIVE ENGINEER Mattroom M. Addis RE.ton 20 20 DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

1)	THE THICKNESS C	F HOT-MIX	ASPHALT MIXTUR	RE SHOWN	ON THE PLA	ANS IS THE	NOMINAL THIC	KNESS.
	DEVIATIONS FROM	A THE NOMIN	AL THICKNESS W	VILL BE P	ERMITTED W	WHEN SUCH (DEVIATIONS OC	CUR DUE TO
	IRREGULARITIES	IN THE EXI	STING SURFACE	OR BASE	ON WHICH 1	THE HOT-MI	ASPHALT MIX	TURE IS PLACED.

2) FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	2.016 TONS/CU YD
BITUMINOUS MATERIALS: (TACK COAT) ON PAVEMENT	0.05 POUND/SO FT

- 3) THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- 4) IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16 THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 101.16 REGARDLESS IF TRACK MOUNTED OR WHEELED.
- 5) TRIM EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW BASE COURSE WIDENING.
- 6) IF THE CONTRACTOR ELECTS TO USE P.C.C. BASE COURSE WIDENING, SUCH WIDENING SHALL BE PRIMED ACCORDING TO ARTICLE 406.02. EXCEPT THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WIDENING.
- 7) THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- 8) ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.
- 9) COMMITMENTS: NONE AS OF JUNE 24, 2016.

MIXTURE REQUIREMENTS

Location(s):	Base Course Widening
Mixture Use(s):	Hot-Mix Asphalt Binder Course, N70, IL-19.0
AC/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Volds:	4.0 %, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-19. Omm
Friction Aggregate:	None
Quality Management Program:	0C0A

Location(s):	Hot-Mix Asphalt Surface Course
Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix C, N70 Fine Graded
AC/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Volds:	4.0 %, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm Fine Graded
Friction Aggregate:	C Surface
Quality Management Program:	OCOA

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OFF-F	ROAD.	21.24	1 1 1	5' TO	24" FF
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701006-05

701201-04

701321-15

701326-04

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 3-5 SUMMARY OF QUANTITIES 6 CENERAL PLAN AND ELEV 7 STAGING TYPICAL SECTION 8 STAGING DETAILS 9 JOINT REPAIR DETAILS 10 PREFORMED JOINT STRIP 11 BAR SPLICER ASSEMBLY 12 TEMP. CONCRETE BARRIE 	1	COVER SHEET
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7 STAGING TYPICAL SECTION 8 STAGING DETAILS 9 JOINT REPAIR DETAILS 10 PREFORMED JOINT STRIP 11 BAR SPLICER ASSEMBLY 12 TEMP. CONCRETE BARRIE	3-5	SUMMARY OF QUANTITIES
8 STAGING DETAILS 9 JOINT REPAIR DETAILS 10 PREFORMED JOINT STRIP 11 BAR SPLICER ASSEMBLY 12 TEMP. CONCRETE BARRIE	6	GENERAL PLAN AND ELEV
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IO PREFORMED JOINT STRIP 11 BAR SPLICER ASSEMBLY 12 TEMP. CONCRETE BARRIE	8	STAGING DETAILS
11 BAR SPLICER ASSEMBLY 12 TEMP. CONCRETE BARRIE	9	JOINT REPAIR DETAILS
12 TEMP. CONCRETE BARRIE	10	PREFORMED JOINT STRIP
	11	BAR SPLICER ASSEMBLY
13 BUTT JOINT DETAILS	12	TEMP. CONCRETE BARRIE
	13	BUTT JOINT DETAILS

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DNS AND PATTERNS 5' FROM PAVEMENT EDGE FROM PAVEMENT EDGE 4. FOR SPEEDS ≥ 45 MPH REPAIR WITH BARRIER 1 WIDENING. FOR SPEEDS ≥ 45 MPH

ERAL NOTES: STANDARDS

VATION ION

P SEAL BSD-1 ER (R-27)

	Prepared By:
	Examined By: DISTRICT STUDIES & PEANS ENGINEER
	Examined By: Canin Aulan DISTRICT PROGRAM DEVELOPMENT ENGINEER
	Examined By:
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	SUMMARY OF QUANTITIES		100% STATE
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			FAS 2826 IL 37
CODE NUMBER	ITEM DESCRIPTION	UNIT	CONSTR. CODE 0014
35650500	BASE COURSE WIDENING 10"	SO YD	257
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	170
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	222
40600990	TEMPORARY RAMP	SO YD	43
50102400	CONCRETE REMOVAL	CU YD	9.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	10. 4
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1280
50800515	BAR SPLICERS	EACH	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	75
58100200	WATERPROOFING MEMBRANE SYSTEM	SO YD	470
67100100	MOBILIZATION	LSUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
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	PLOT DATE + 6/22/2016	DATE -	REVISED -]	SCALE:	SHEET NO. OF SHEETS STA	4.

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			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SUMMARY OF QUANTITIES - CONT

CODE NUMBER	ITEM DESCRIPTION	UN
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70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LS
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LS
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EA
70106800	CHANGEABLE MESSAGE SIGN	CAL
70700100		
70300100	SHORT TERM PAVEMENT MARKING	FO
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	so
	·	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	F00
70400100	TEMPORARY CONCRETE BARRIER	FO(
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	F0(
70600250	IMPACT ATTENUATORS. TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EAC
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EAG
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOC

* SPECIALTY ITEM

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SUMMARY OF QUANTITIES - CONT

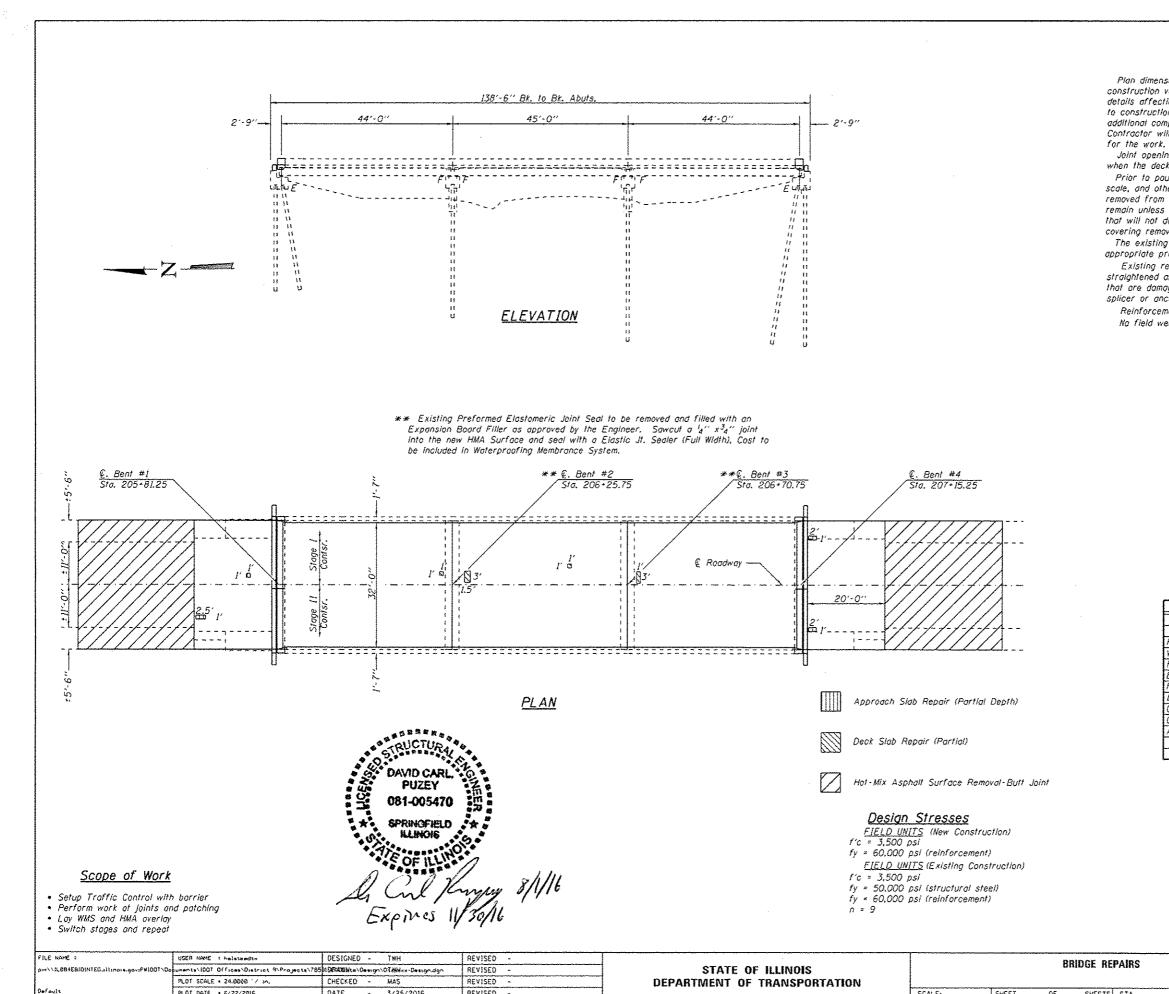
	CODE NUMBER	ITEM DESCRIPTION	UNII
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH
F	86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO F
	X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH
	Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SO YI
	Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YE
	X0300002	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, N70	TON
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PLOT DATE + 6/22/2016

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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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid

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

Prior to pouring the new concrete deck section, all heavy or 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. Remaval 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.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are domaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal. Reinforcement bors designated (E) shall be epoxy coated.

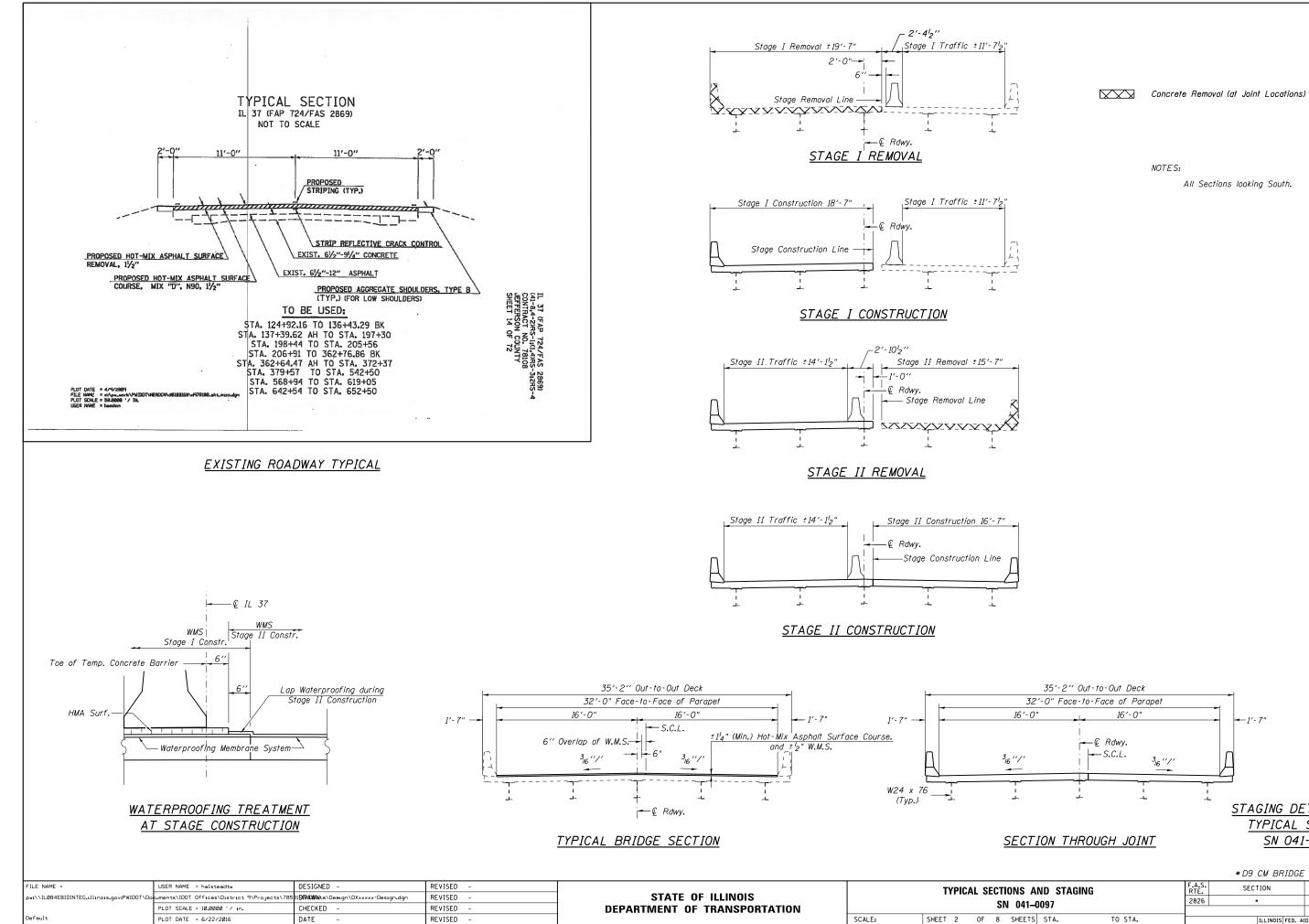
No field welding is permitted except as specified in the contract documents.

TOTAL BILL OF MATERIAL

	UNIT	OUANITY
····		
Hot-Mix Asphalt Surface Course. 1L-9.5FG, N70	Ton	33
Waterproofing Membrane System	Sq. Yd.	470
Reinforcement Bors, Epoxy Coated	Pound	1280
Bar Splicers	Each	24
Preformed Joint Strip Seal	Foot	75
Deck Slab Repair (Partial)	Sq. Yd.	1.1
Concrete Removal	Cu. Yd.	9.4
Concrete Superstructure	Cu. Yd.	10.4
Approach Slab Repair (Partial Depth)	Sq. Yd.	0.9

BRIDGE REPAIR IL 37 (FAS 2826) OVER DODDS CREEK JEFFERSON COUNTY D9 CM BRIDGE REPAIR 2017-2 STA. 206+48.25 SN 041-0097

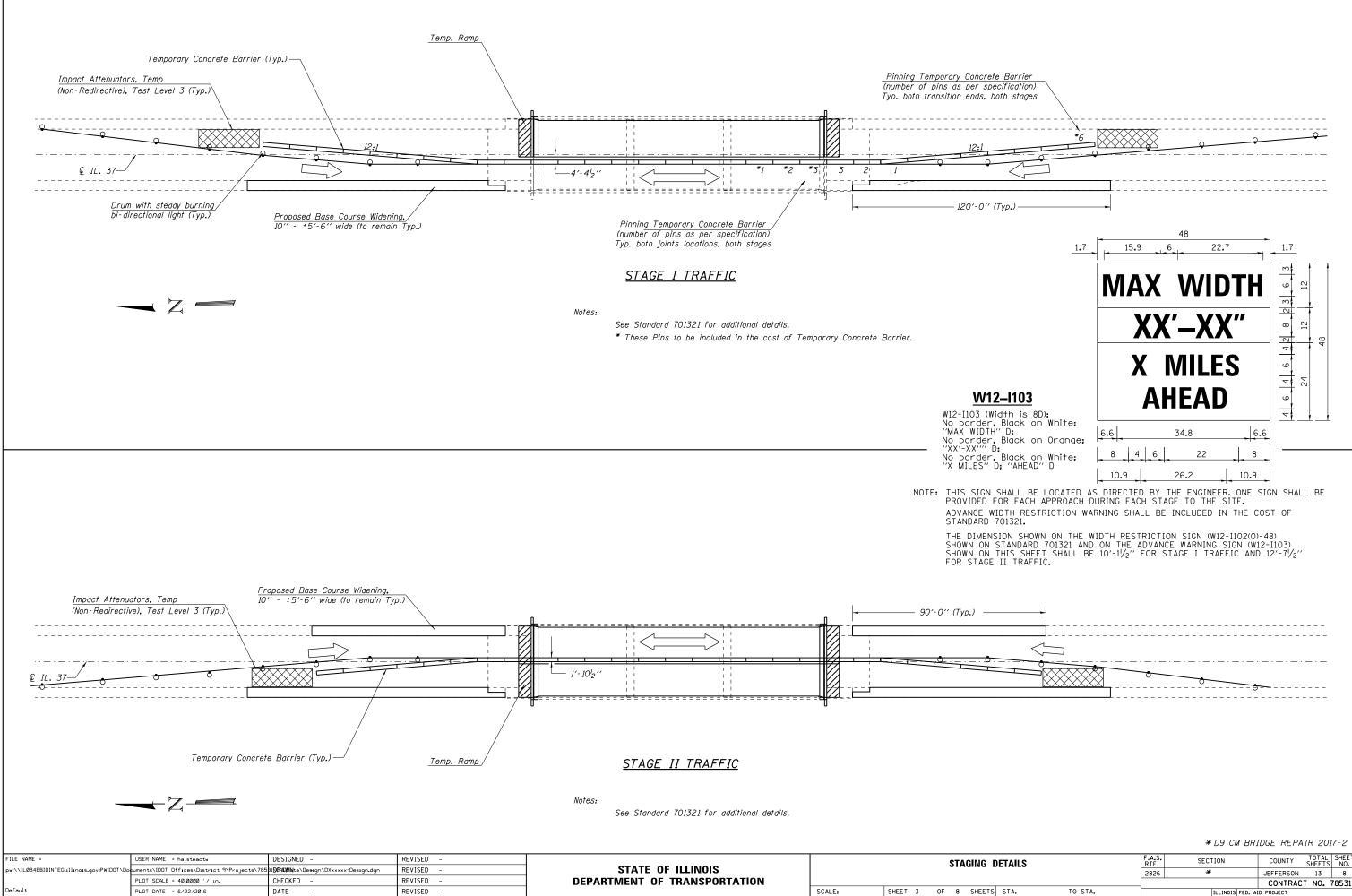
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	2826	4	JEFFERSON	13	6		
			CONTRAC	T NO. 1	78531		
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STAGING DETAILS AND TYPICAL SECTION SN 041-0097

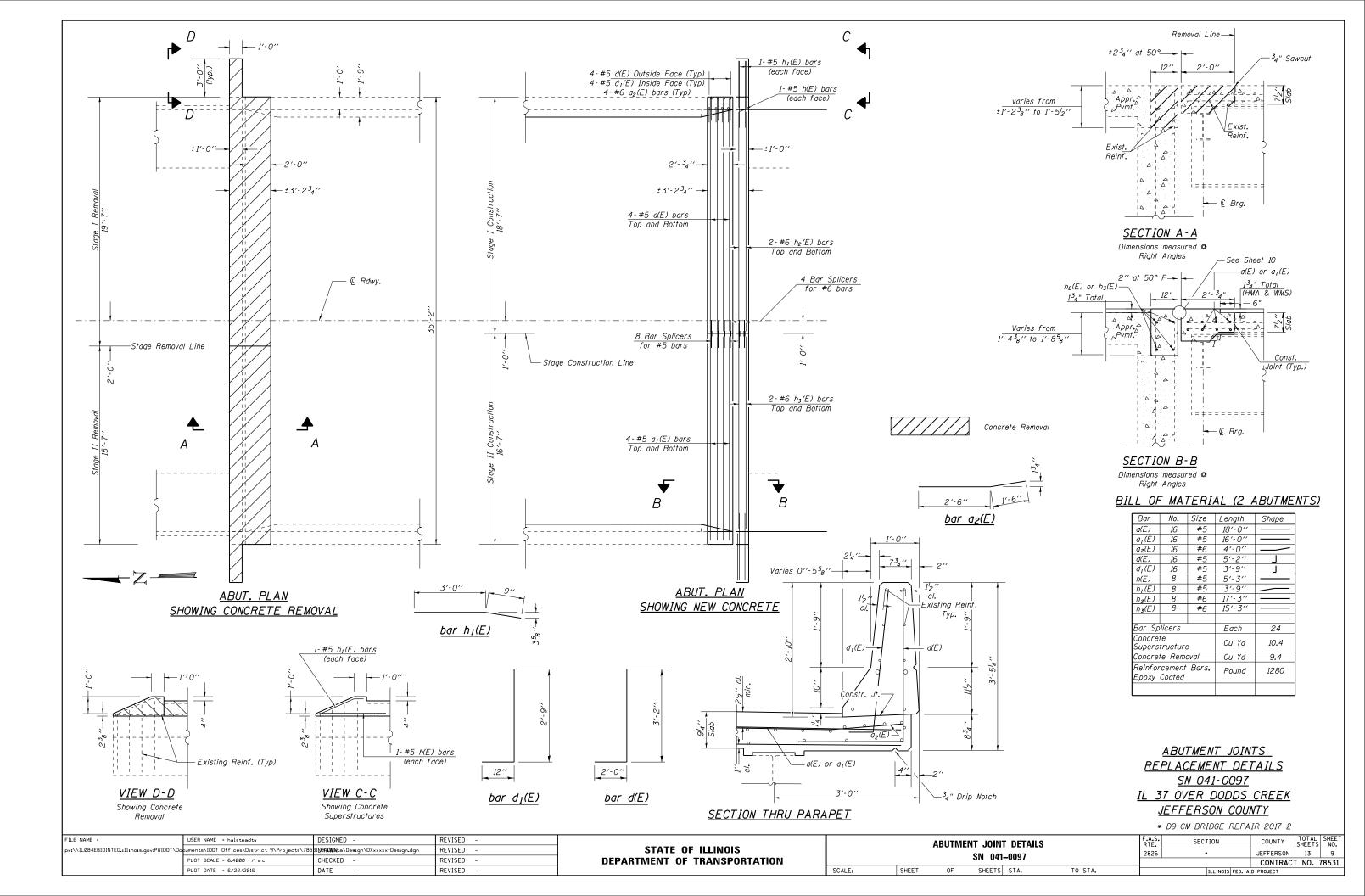
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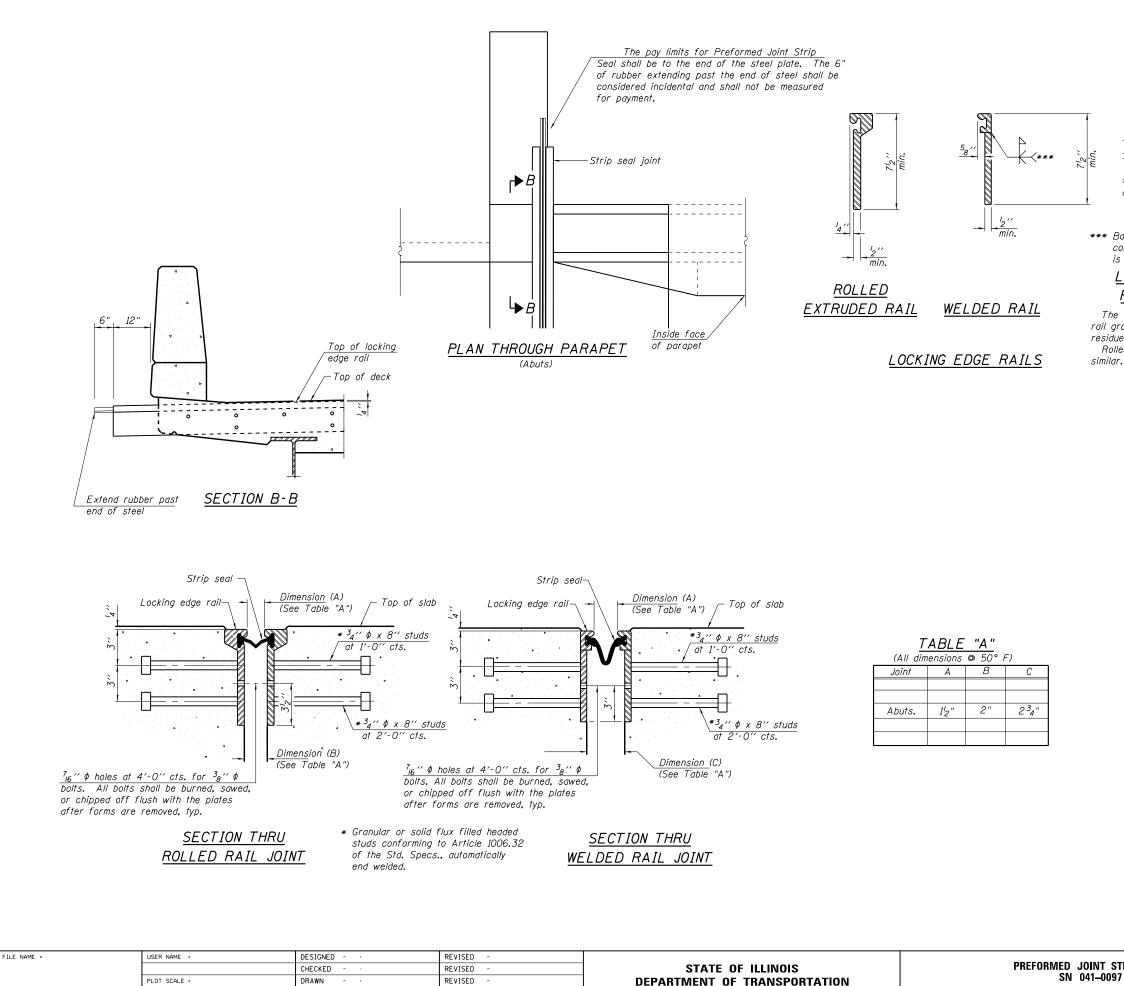


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DETAILS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
			2826	*	JEFFERSON	13	8			
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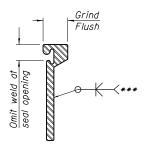




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*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail imilar.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of l_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 conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be ${}^3_{16}$ '',

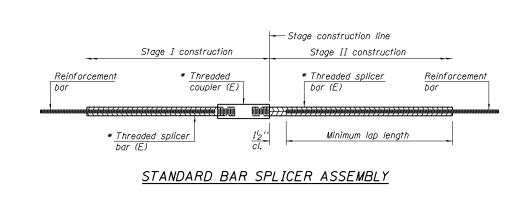
sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews $>30^\circ$ included in the cost of Preformed Joint Strip Seal.

Item	Unit	Total
Preformed Joint Strip Seal	Foot	75

PREFORMED JOINT STRIP SEAL JEFFERSON COUNTY STRUCTURE NO. 041-0097

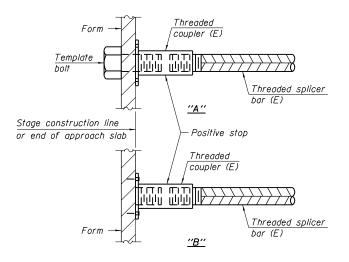
	* D9 CM BRIDGE REPAIR 2017-						
T STRIP SEAL		F.A.S. SECTION		TOTAL SHEETS	SHEET NO.		
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Threaded splicer bar length = min. lap length + l_2'' + thread length

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

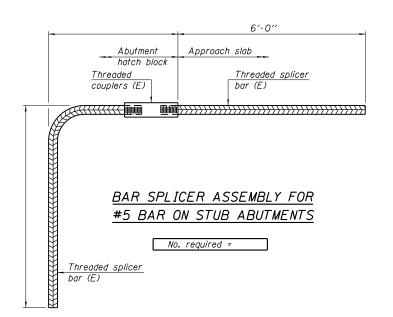
Location	Bar size	No. assemblies required	Minimum Iap length
Abutments (deck)	#5	16	3′-6′′
Hatch Block	#6	8	4'-0''



INSTALLATION AND SETTING METHODS	INSTALLA	TION	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.



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	Stage line if applicable
Stage I construction	Stage II construction
	Mechanical
844444444444444444444444444444444444444	
Reinforcement bar _	

STANDARD MECHANICAL SPLICER

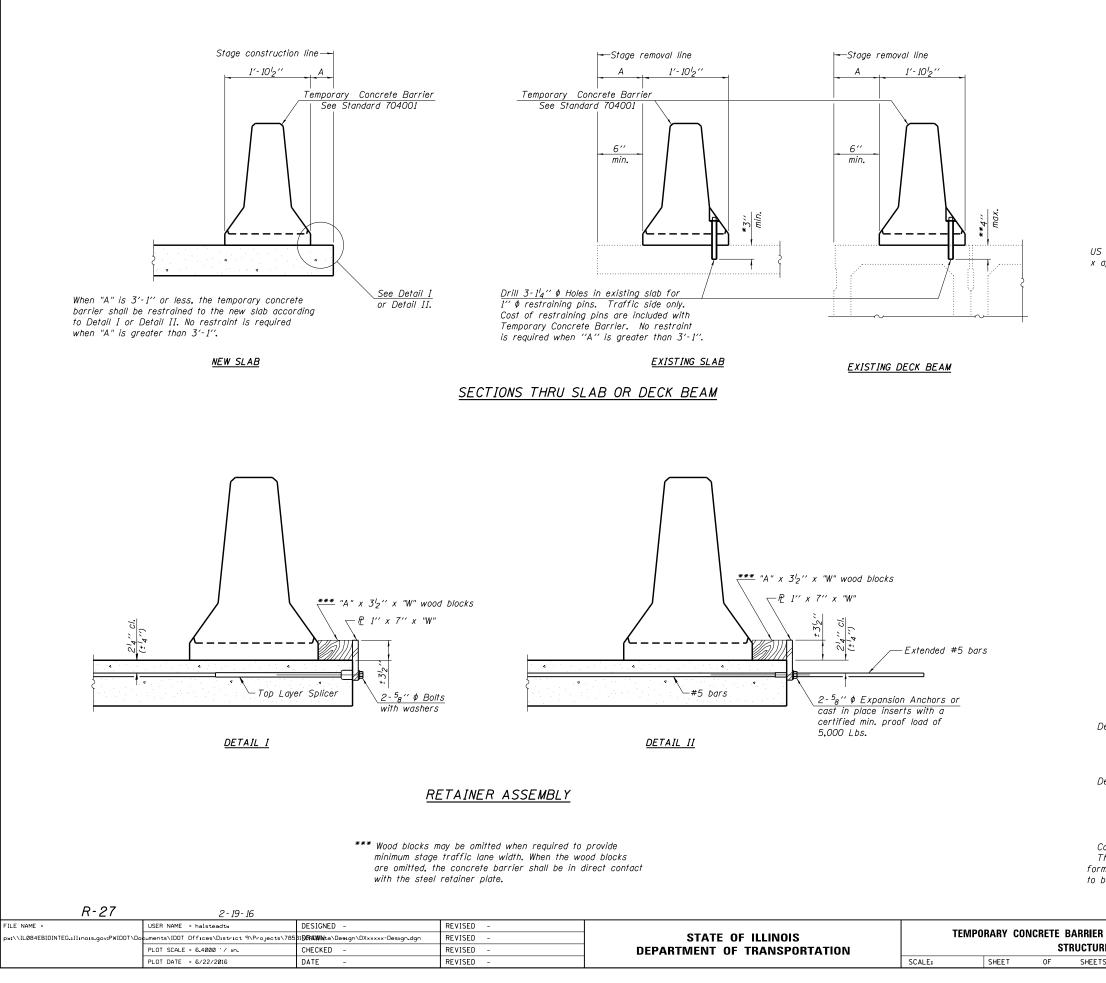
Location	Bar size	No. assemblies required

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.

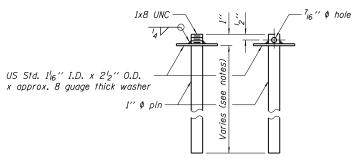
* D9 CM BRIDGE REPAIR 2017-2



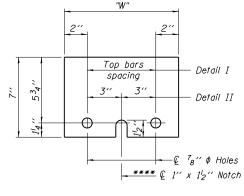
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The I'' x 7'' x 'W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

- * Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- ** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



RESTRAINING PIN



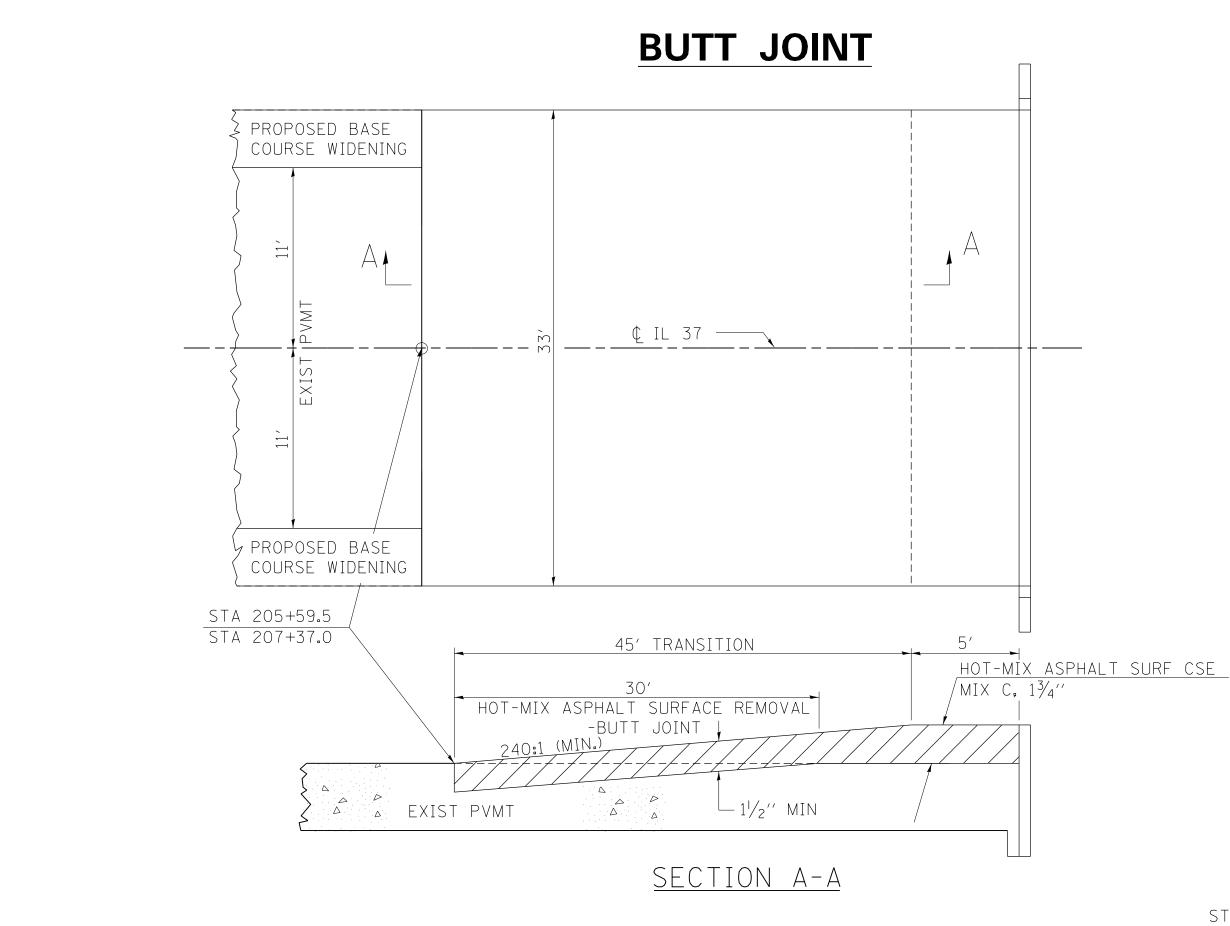


NOTES

Detail I - With Bar Splicer or Couplers:	
Connect one (1) 1" x 7' 'x 'W'' steel P to the	
top layer of couplers with 2-5 ₈ 7 \$\$ bolts	
screwed to coupler at approximate 🖉 of	
each barrier panel.	
Detail II - With Extended Reinforcement Bars:	
Connect one (1) 1'' x 7'' x ''W'' steel 🖻 to the concrete	э
slab or concrete wearing surface with 2-5 $_8^{\prime\prime}$ ϕ	
Expansion Anchors or cast in place inserts	
spaced between the top layer of reinforcement	
at approximate 🕼 of each barrier panel.	
Cost of retainer assembly is included with Temporary Concrete Barrier.	

* D9 CM BRIDGE REPAIR 2017-2

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2826 • JEFFERSON 13	12						
RE NO. CONTRACT NO.	78531						
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REVISED	01-11-07
REVISED	3-25-08
REVISED	5-17-13

STD. 9-86

REVISIONS DRAWN 10-17-90