

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781		JASPER	31	1
		ILLINOIS	CONTRACT NO. 74993	

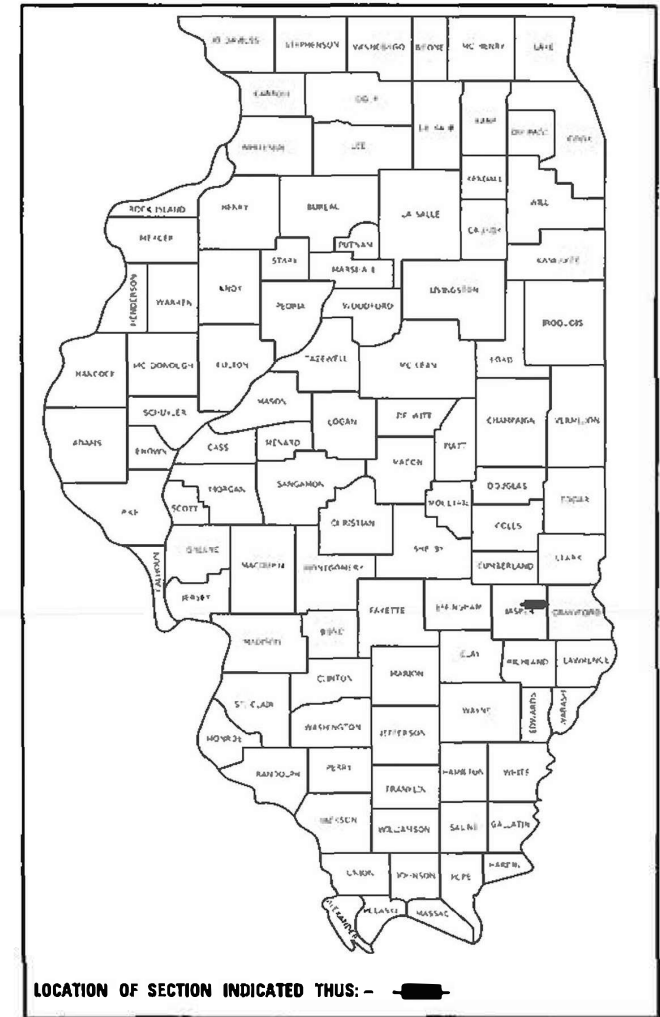
D-97-070-20

FOR INDEX OF SHEETS, SEE SHEET NO. 2
ADT = 3200 (2019)

PROPOSED
HIGHWAY PLANS

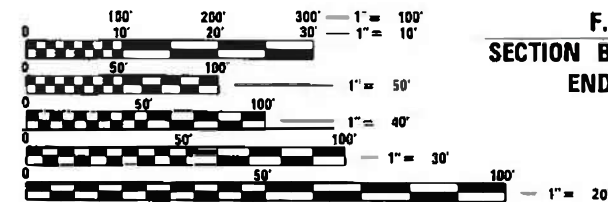
FAP ROUTE 781 (IL 33)
SECTION D7 BRIDGE REPAIRS 2021-6
PROJECT STP-9H59(408)
BRIDGE REPAIR
JASPER COUNTY

C-97-078-20



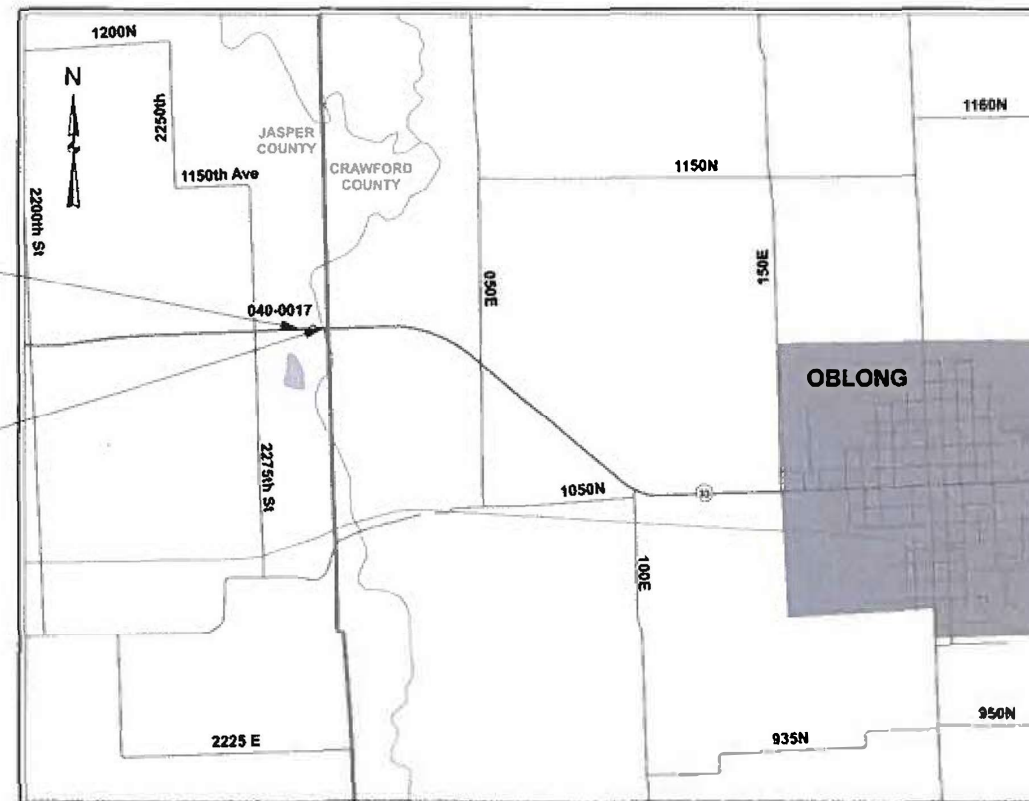
F.A.P. ROUTE 781 (ILL 33)
SECTION BRIDGE REPAIRS 2021-6
ENDS STATION 660 + 67.00

F.A.P. ROUTE 781 (ILL 33)
SECTION BRIDGE REPAIRS 2021-6
ENDS STATION 665 + 15.00



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

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



GROSS LENGTH = 448.00 FT. = 0.085 MILE
NET LENGTH = 448.00 FT. = 0.085 MILE

PROJECT ENGINEER BRIAN LEWIS
PROJECT MANAGER BRANDON BAILEY
PHONE: (217) 342-8360
CONTRACT NO. 74993

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 11 20 20
Jeffrey P. Myer REGIONAL ENGINEER
October 2, 2020

Scott A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT
October 2, 2020
James M. Jan 13
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

80% FED
20% STATE

80% FED
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0059			CODE NO	ITEM	UNIT		0059		
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	7	7			50300100	FLOOR DRAINS	EACH	60	60		
20400800	FURNISHED EXCAVATION	CU YD	192	192			50300255	CONCRETE SUPERSTRUCTURE	CU YD	19.6	19.6		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	85	85			50300260	BRIDGE DECK GROOVING	SQ YD	1998	1998		
35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	728	728			50300300	PROTECTIVE COAT	SQ YD	2119	2119		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	425	425			50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4220	4220		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	533	533			50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2880	2880		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	411	411			50800515	BAR SPLICERS	EACH	28	28		
40600990	TEMPORARY RAMP	SQ YD	94	94			52000110	PREFORMED JOINT STRIP SEAL	FOOT	89	89		
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	79	79			52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12	12		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2073	2073			* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	175	175		
44004250	PAVED SHOULDER REMOVAL	SQ YD	315	315			* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	180	180			* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL)	EACH	4	4		
50102400	CONCRETE REMOVAL	CU YD	18	18				TANGENT					

* SPECIALTY ITEM

* D7 BRIDGE REPAIRS 2021-6

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PLOT DATE = 8/13/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	3
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

80% FED
20% STATE

80% FED
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0059			CODE NO	ITEM	UNIT		0059		
63200310	GUARDRAIL REMOVAL	FOOT	500	500			70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1766	1766		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7			70400100	TEMPORARY CONCRETE BARRIER	FOOT	700	700		
67100100	MOBILIZATION	L SUM	1	1			70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	675	675		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	1	1			70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
	701321												
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1			70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
	701201												
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1			* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
	701326												
							* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1766	1766		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2	2									
							* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1									
							X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25	0.25		
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	1229	1229									
							Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	12	12		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28									
							Z0012114	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 3 1/4"	SQ YD	2073	2073		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	52	52									
							Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	2073	2073		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1915	1915									

* SPECIALTY ITEM

* D7 BRIDGE REPAIRS 2021-6

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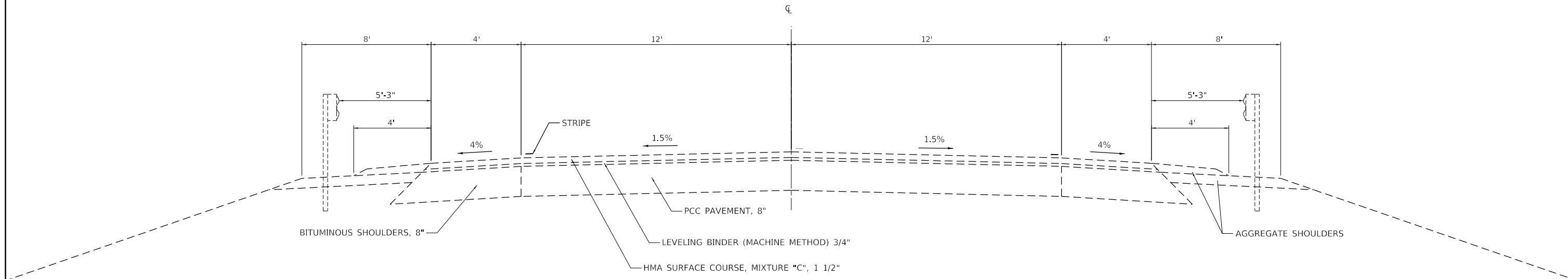
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

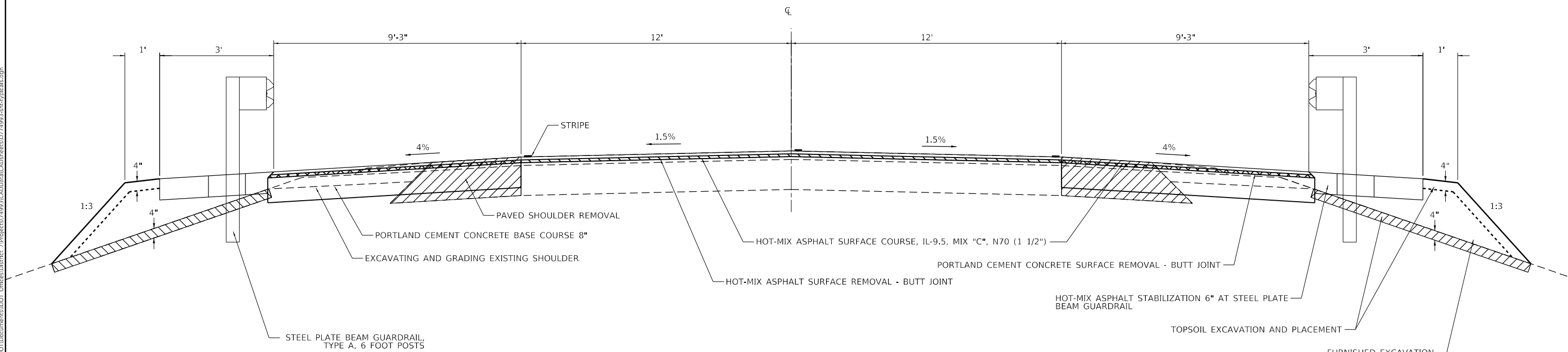
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	4
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION



* D7 BRIDGE REPAIRS 2021-6

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	6
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

PAVING SCHEDULE									
STATION	TO	STATION	LENGTH FOOT	MAINLINE WIDTH FOOT	SHOULDER WIDTH FOOT	BITUMINOUS MATERIALS (TACK COAT) POUND	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SQ YD	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT SQ YD	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70 TON
659+67.00		660+67.00	100	24	18.5	212.5	266.7	205.6	39.7
665+15.00		666+15.00	100	24	18.5	212.5	266.7	205.6	39.7
TOTALS						425	533	411	79

*SHOULDER WIDTH INCLUDES PROPOSED LEFT & RIGHT 9 1/4 FOOT SHOULDERS

SHOULDER WIDENING SCHEDULE									
STATION	TO	STATION	SIDE (LT/RT)	LENGTH FOOT	EXISTING SHOULDER WIDTH FOOT	PROPOSED SHOULDER WIDTH FOOT	EXCAVATING AND GRADING EXISTING SHOULDER UNIT	PORTLAND CEMENT CONCRETE BASE COURSE 8" SQ YD	PAVED SHOULDER REMOVAL SQ YD
658+90.00		660+67.00	LT	177	4	9.25	1.8	181.9	78.7
658+90.00		660+67.00	RT	177	4	9.25	1.8	181.9	78.7
665+15.00		666+92.00	LT	177	4	9.25	1.8	181.9	78.7
665+15.00		666+92.00	RT	177	4	9.25	1.8	181.9	78.7
TOTALS							7	728	315

PAVEMENT MARKING SCHEDULE									
STATION	TO	STATION	SIDE (LT/RT/CL)	SHORT TERM PAVEMENT MARKING FOOT	SHORT TERM PAVEMENT MARKING REMOVAL SQ FT	TEMPORARY PAVEMENT MARKING - LINE 4"		PAINT PAVEMENT MARKING - LINE 4"	
						4" SOLID WHITE EDGE LINE FOOT	4" YELLOW SKIP DASH LINE FOOT	4" SOLID WHITE EDGE LINE FOOT	4" YELLOW SKIP DASH LINE FOOT
STAGE 1 TEMPORARY MARKINGS, 4"						595			
STAGE 2 TEMPORARY MARKINGS, 4"						587			
STAGE I BLACKOUT TAPE, 7"						514			
STAGE II BLACKOUT TAPE, 7"						203			
660+32.00		665+50.00	CL	52	17				
658+90.00		666+92.00	LT/RT			1604		1604	
659+67.00		666+15.00	CL				162.0		162.0
SUBTOTALS				52	1915	1604	162	1604	162
TOTALS				52	1915	1766		1766	

PAVEMENT MARKING BLACKOUT TAPE, 7"					
STATION	TO	STATION	SIDE (LT/RT/CL)	7" WHITE SOLID EDGE LINES FOOT	7" YELLOW SKIP DASH CENTER LINE FOOT
STAGE 1					
657+60		659+32	CL		43.0
658+93		666+89	RT	796	
666+50		668+16	CL		41.5
STAGE 2					
658+93		660+67	LT	174	
665+15		666+89	LT	174	
SUBTOTALS				1144	85
TOTAL				1144	85

EARTHWORK SCHEDULE			
LOCATION	FURNISHED EXCAVATION CU YD	TOPSOIL EXCAVATION AND PLACEMENT CU YD	SEEDING, CLASS 2 (SPECIAL) ACRE
NE QUADRANT	62.0	26.0	0.037
NW QUADRANT	66.6	26.0	0.039
SE QUADRANT	38.8	16.8	0.021
SW QUADRANT	24.2	15.3	0.016
TOTALS	191.6	84.1	0.113
ROUND TO	192.0	85.0	0.25

GUARDRAIL SCHEDULE						
QUADRANT	GUARDRAIL REMOVAL FOOT	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS FOOT	TRAFFIC BARRIER TERMINAL, TYPE 6 EACH	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT EACH	TERMINAL MARKER - DIRECT APPLIED EACH	GUARDRAIL REFLECTORS, TYPE A EACH
NW	125.0	25.0	1	1	1	4
NE	125.0	62.5	1	1	1	4
SW	125.0	62.5	1	1	1	4
SE	125.0	25.0	1	1	1	4
TOTALS	500	175.0	4	4	4	16

GUARDRAIL STABILIZATION SCHEDULE						
STATION	TO	STATION	SIDE (LT/RT)	LENGTH FOOT	PROPOSED STABILIZATION WIDTH FOOT	HOT-MIX ASPHALT SHOULDERS, 6" SQ YD
659+36.00		659+42.00	LT	6	1.5	1.0
659+42.00		660+55.00	LT	113	3	37.7
665+27.00		666+78.00	LT	151	3	50.3
666+78.00		666+84.00	LT	6	1.5	1.0
658+99.00		659+05.00	RT	6	1.5	1.0
659+05.00		660+55.00	RT	150	3	50.0
665+27.00		666+40.00	RT	113	3	37.7
666+40.00		666+46.00	RT	6	1.5	1.0
TOTALS						179.7
ROUND TO						180.0

TRAFFIC CONTROL SCHEDULE						
STATION	TO	STATION	TEMPORARY CONCRETE BARRIER FOOT	RELOCATE TEMPORARY CONCRETE BARRIER FOOT	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3 EACH	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 EACH
STAGE 1						
659+45		666+37	700		2	
STAGE 2						
659+57		666+24		675		2
TOTALS			700	675	2	2

TEMPORARY RAMP SCHEDULE					
STATION	SIDE	RAMP WIDTH FOOT	DROP-OFF DEPTH INCH	RAMP LENGTH FOOT	RAMP AREA SQ YD
660+32.00	CL	42.5	1.5	5.0	23.6
660+67.00	CL	42.5	1.5	5.0	23.6
665+15.00	CL	42.5	1.5	5.0	23.6
665+50.00	CL	42.5	1.5	5.0	23.6
TOTAL					94

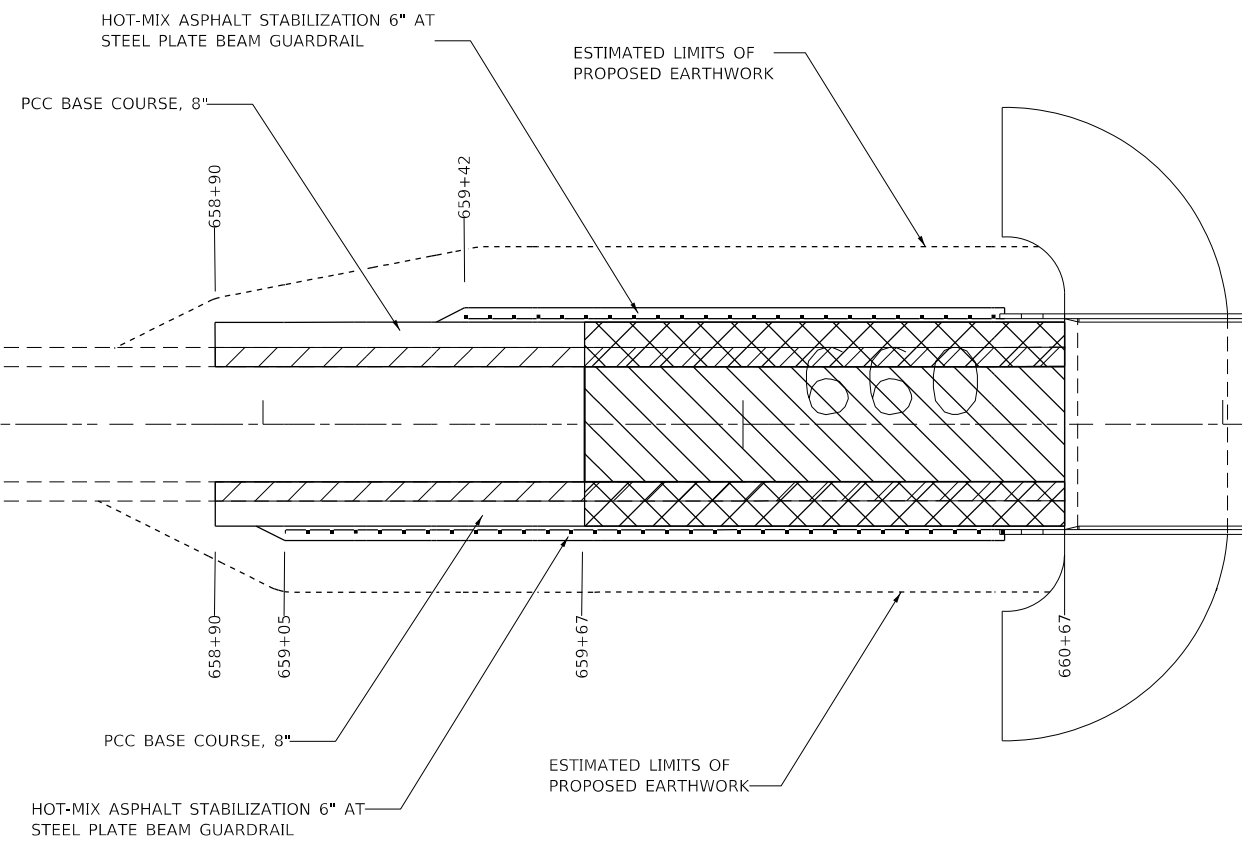
* D7 BRIDGE REPAIRS 2021-6

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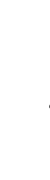
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PLOT DATE = 8/13/2020	DATE -	REVISED -			ILLINOIS	FED. AID PROJECT			
SCALE:				SHEET 1 OF 1 SHEETS	STA.	TO STA.			



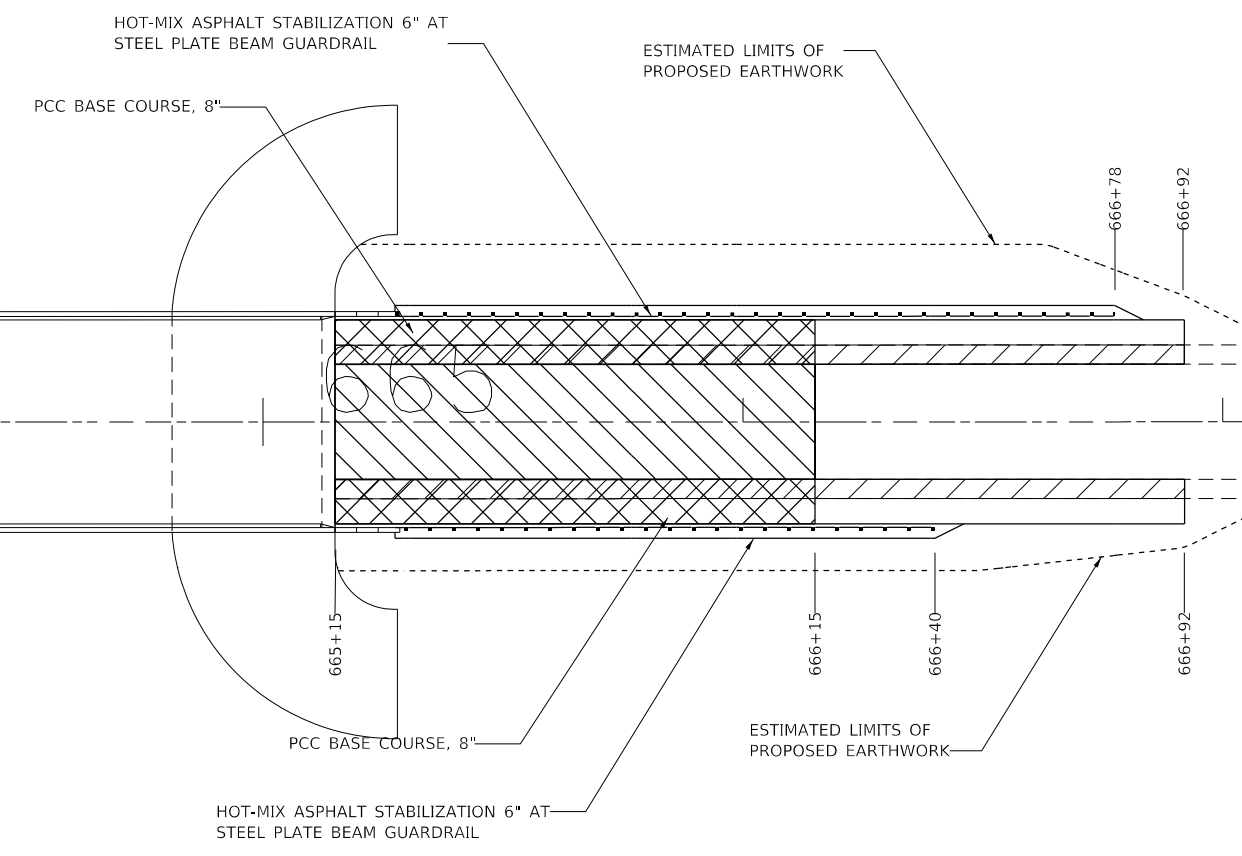
MATCH LINE STATION 663+00



- PAVED SHOULDER REMOVAL
- PCC SURFACE REMOVAL - BUTT JOINT
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



MATCH LINE STATION 663+00



- PCC SURFACE REMOVAL - BUT JOINT
- PCC SURFACE REMOVAL - BUT JOINT
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

* D7 BRIDGE REPAIRS 2021-6

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

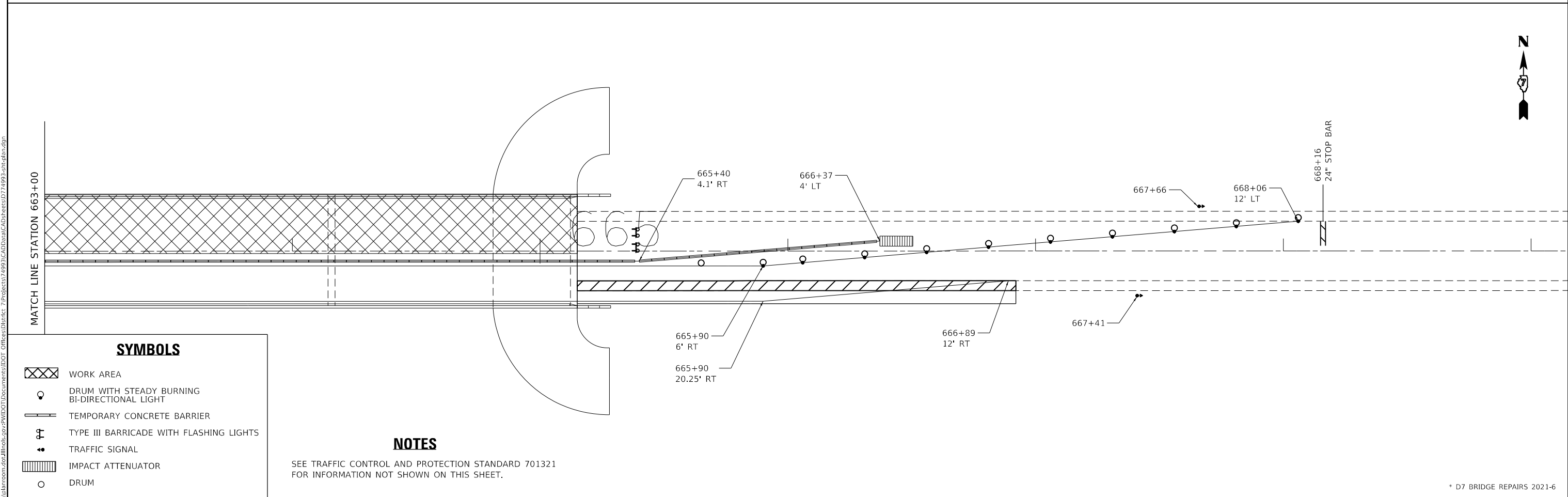
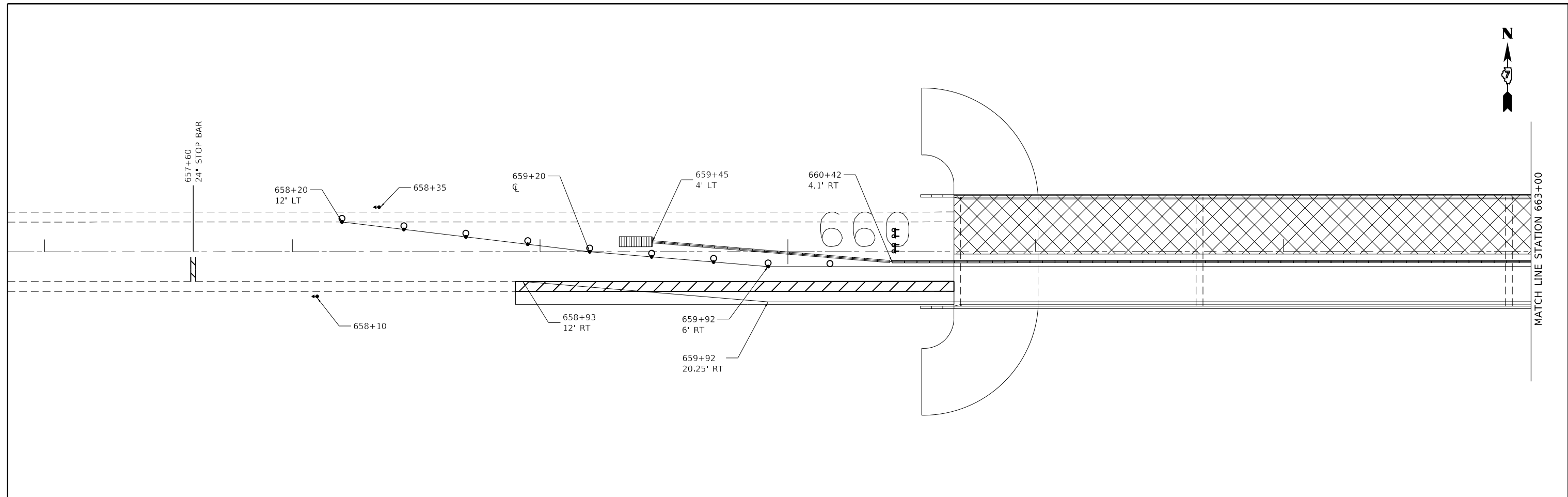
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SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	8
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 663+00



SYMBOLS

- WORK AREA
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL
- IMPACT ATTENUATOR
- DRUM

NOTES

SEE TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FOR INFORMATION NOT SHOWN ON THIS SHEET.

* D7 BRIDGE REPAIRS 2021-6

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 TRAFFIC CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	9
CONTRACT NO. 74993				

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

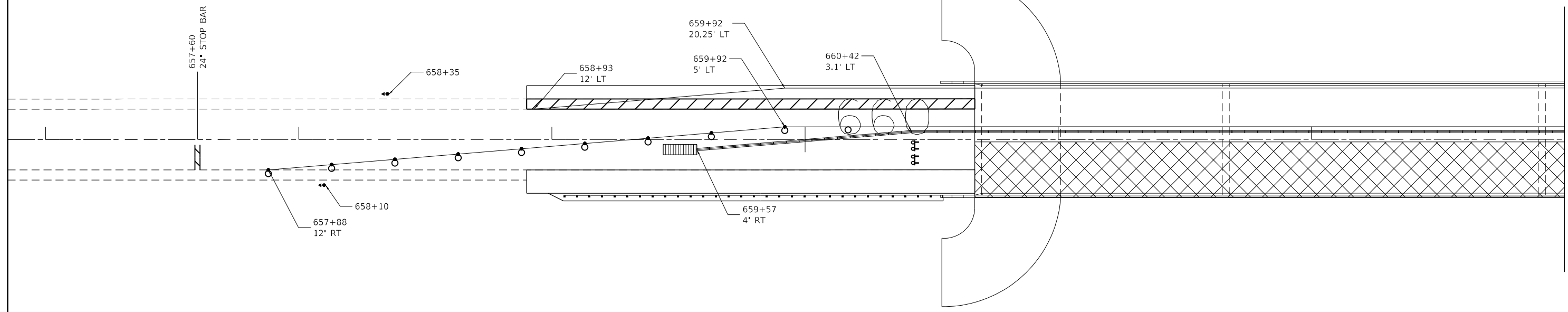
ILLINOIS FED. AID PROJECT

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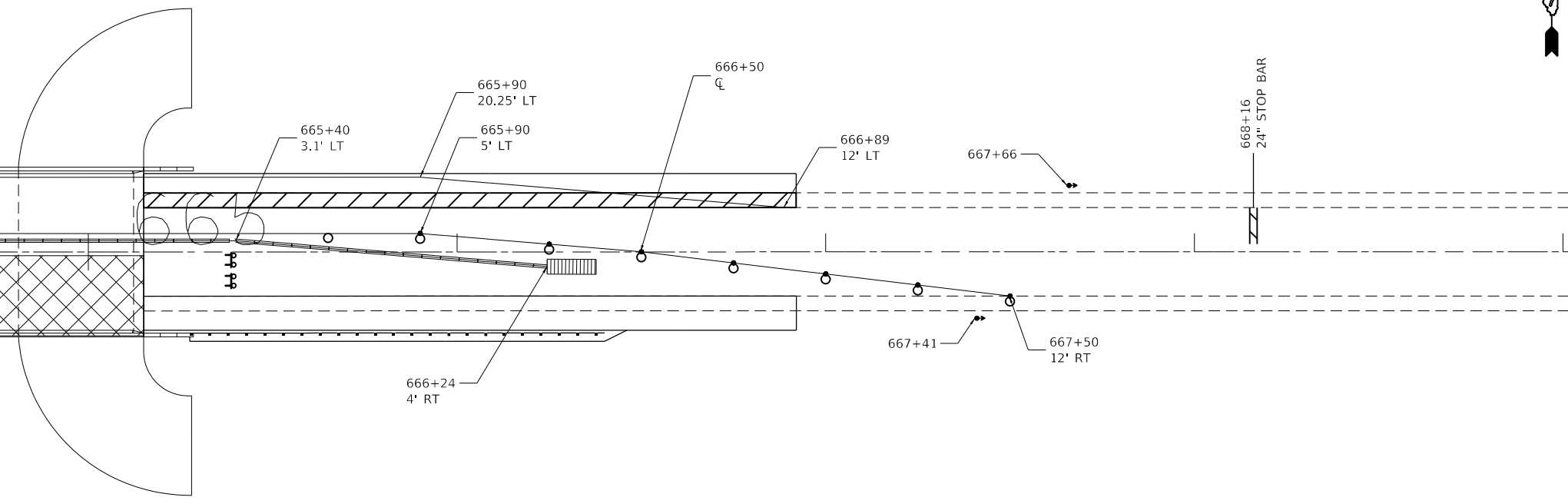


MATCH LINE STATION 663+00










MATCH LINE STATION 663+00

668+16
24" STOP BAR



SYMBOLS

-  WORK AREA
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TEMPORARY CONCRETE BARRIER
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  TRAFFIC SIGNAL
-  IMPACT ATTENUATOR
-  DRUM

NOTES

SEE TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FOR INFORMATION NOT SHOWN ON THIS SHEET.

* D7 BRIDGE REPAIRS 2021-6

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 TRAFFIC CONTROL

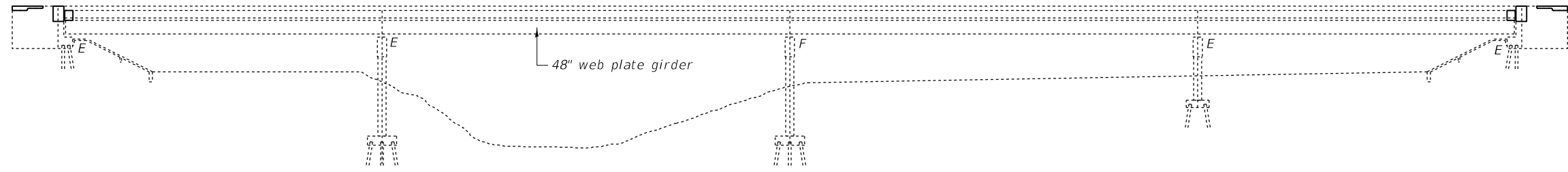
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SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

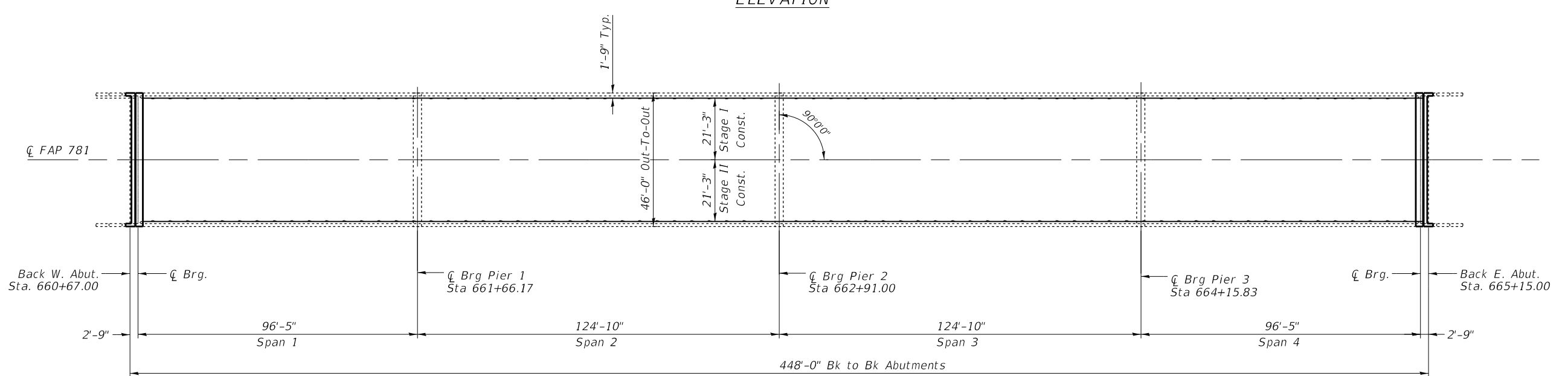
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	10
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

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The existing four span, steel plate girder structure was constructed in 1972 as SBI 33, Section 3BR. Structure 040-0017 carries ILL-33(FAP 781) over North Fork of the Embarras River. The proposed project consists of new expansion joints, new elastomeric bearings at the abutments, deck patching, scarification and concrete overlay.



ELEVATION



PLAN

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	18.0
Concrete Superstructure	Cu. Yd.	19.6
Reinforcement Bars, Epoxy Coated	Pound	2880
Hot-Mix Asphalt Surface Removal, 2 1/2"	Sq. Yd.	2073
Bridge Deck Scarification 3/4"	Sq. Yd.	2073
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 3 1/4"	Sq. Yd.	2073
Bridge Deck Grooving	Sq. Yd.	1998
Preformed Joint Strip Seal	Foot	89
Protective Coat	Sq. Yd.	2119
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	53
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	95
Floor Drains	Each	60
Bar Splicers	Each	28
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	22
Jack & Remove Existing Bearings	Each	12
Elastomeric Bearing Assembly, Type I	Each	12
Anchor Bolts, 1" Diameter	Each	24
Furnishing and Erecting Structural Steel	Pound	4220



Expires 11-30-2020

David Carl Puzey

9/29/2020

MODEL: Default
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USER NAME = stefenmk	DESIGNED - R. BALLARD	REVISED -
	DRAWN - R. BALLARD	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - D. MACKLIN	REVISED -
PLOT DATE = 8/13/2020	DATE - 04/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE 040-0017

SCALE: SHEET 1 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74993	

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

Removal and reinstallation of the handrail support posts will be necessary for construction of the expansion joints. The existing handrail sections and support posts shall be reused. New bolts and post support anchor assemblies, are to be provided and installed as detailed in the plan. This work and all materials shall be included in the contract unit price for CONCRETE SUPERSTRUCTURE.

Synthetic fibers shall be added to the bridge Deck Fly Ash or GGBF Slag Overlay 3 1/4". See Special Provisions.

Protective Coat shall be applied to new concrete areas adjacent to the new expansion joints, and on the new Bridge Deck Fly Ash or GGBF Concrete Overlay 3 1/4".

Prior to pouring the new concrete deck, 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. 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.

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.

It is anticipated that a full depth deck slab repair will be necessary at each existing floor drains location. Removal and disposal of the existing floor drains shall be included in the contract unit price for Deck Slab Repair (Full Depth, Type 1).

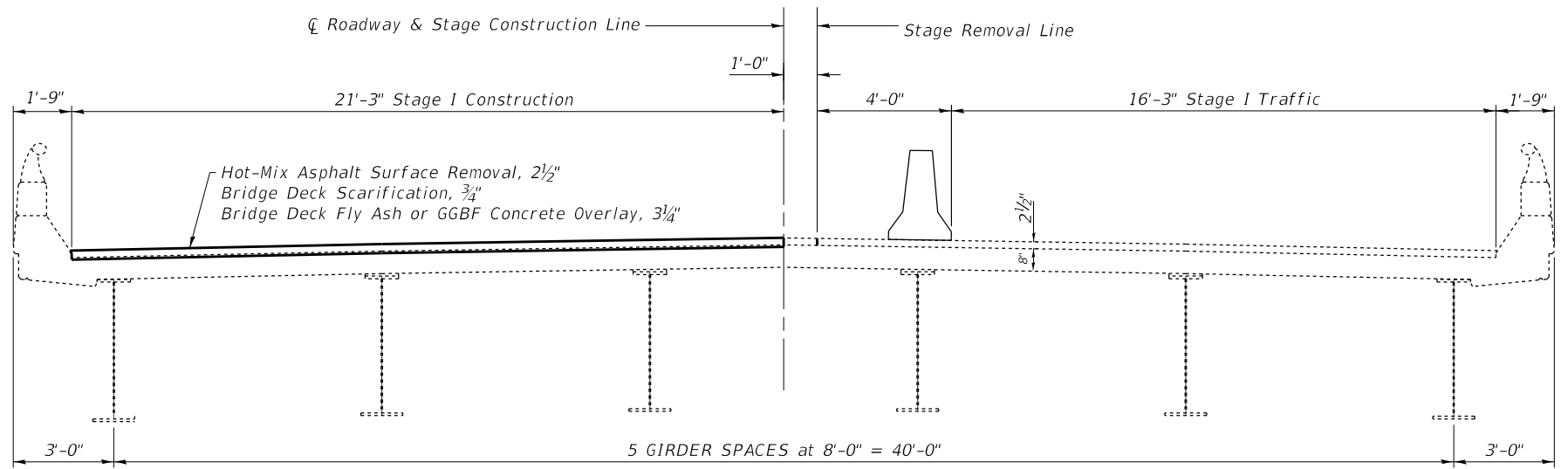
Full depth deck slab repairs performed in the exterior bays of the bridge deck (between the parapet walls and the first interior beams) shall be limited to individual lengths no greater than 10'. In these portions of the deck, repair areas longer than 10' shall be divided into segments not greater than 10' in length, and the segments shall be poured in alternating sequence. Subsequent segments repaired in sequence shall not be removed until 72 hours shall have elapsed from the end of the previous, adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 650psi.

Reinforcement Bars designated (E) shall be epoxy coated.

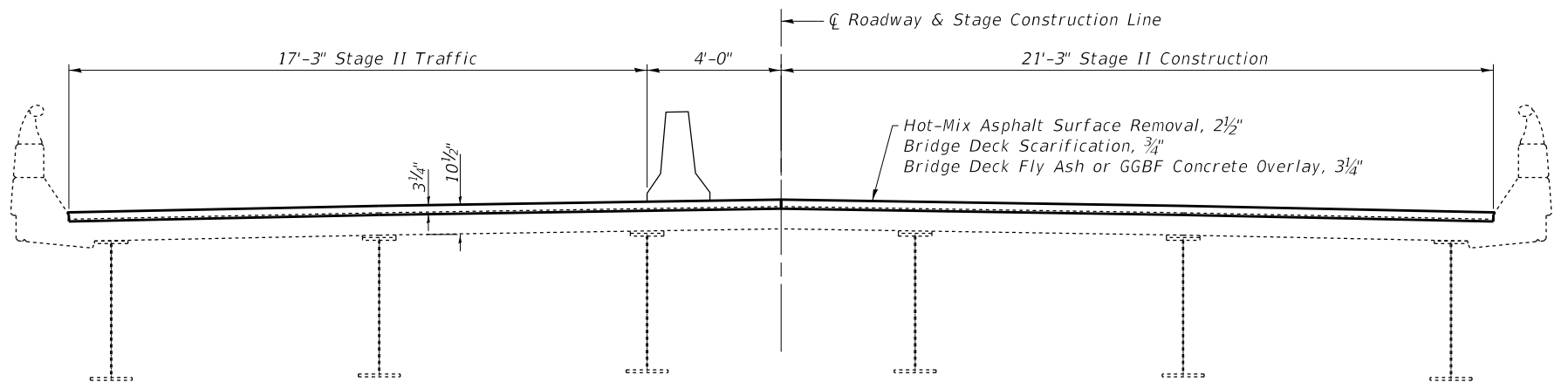
All new structural steel and bearing assemblies shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing For Structural Steel".

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

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



STAGE I LOOKING EAST



STAGE II LOOKING EAST

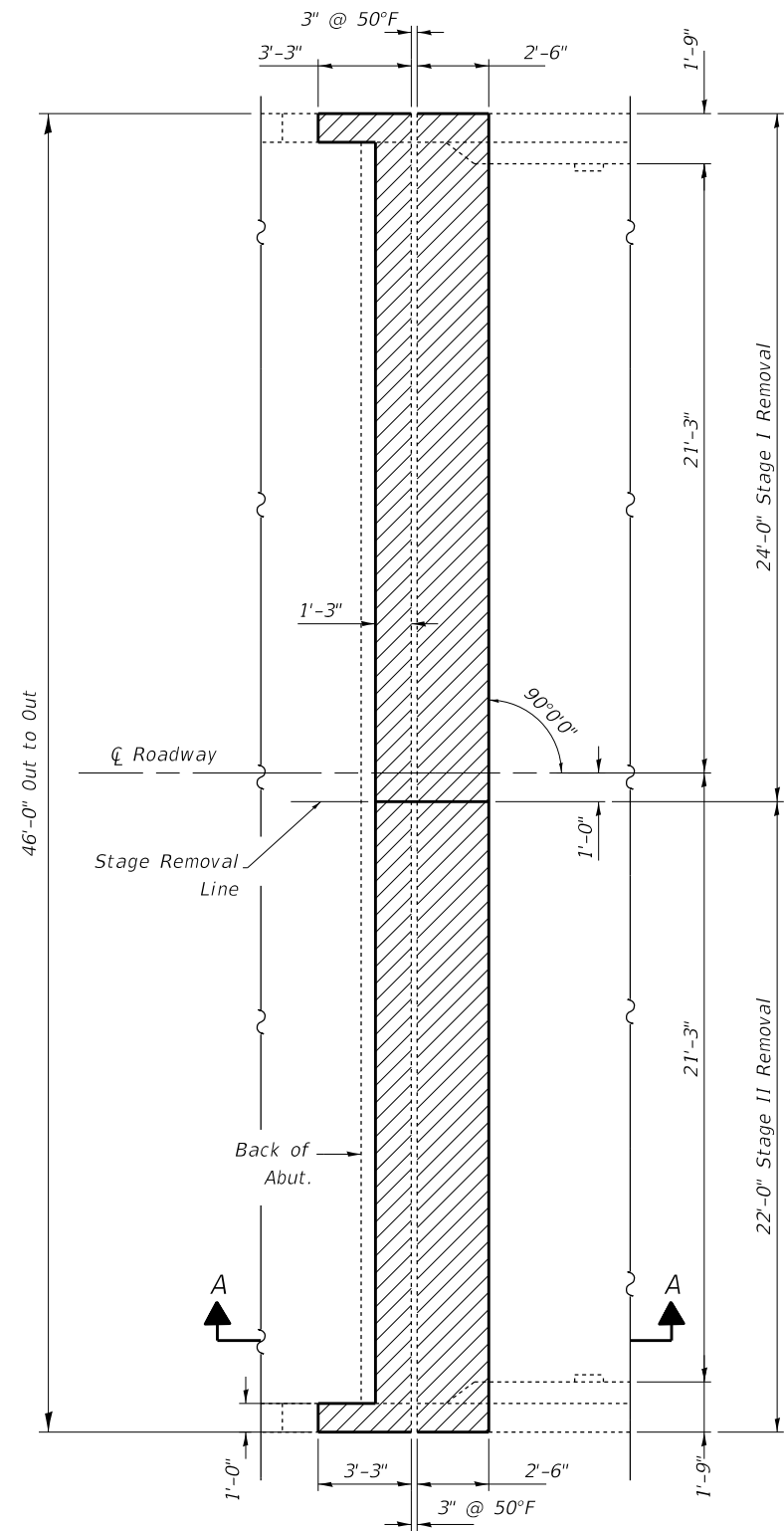
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS & GENERAL NOTES
STRUCTURE 040-0017

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	12
CONTRACT NO. 74993				
ILLINOIS		FED. AID PROJECT		

SCALE: SHEET 2 OF 15 SHEETS STA. TO STA.

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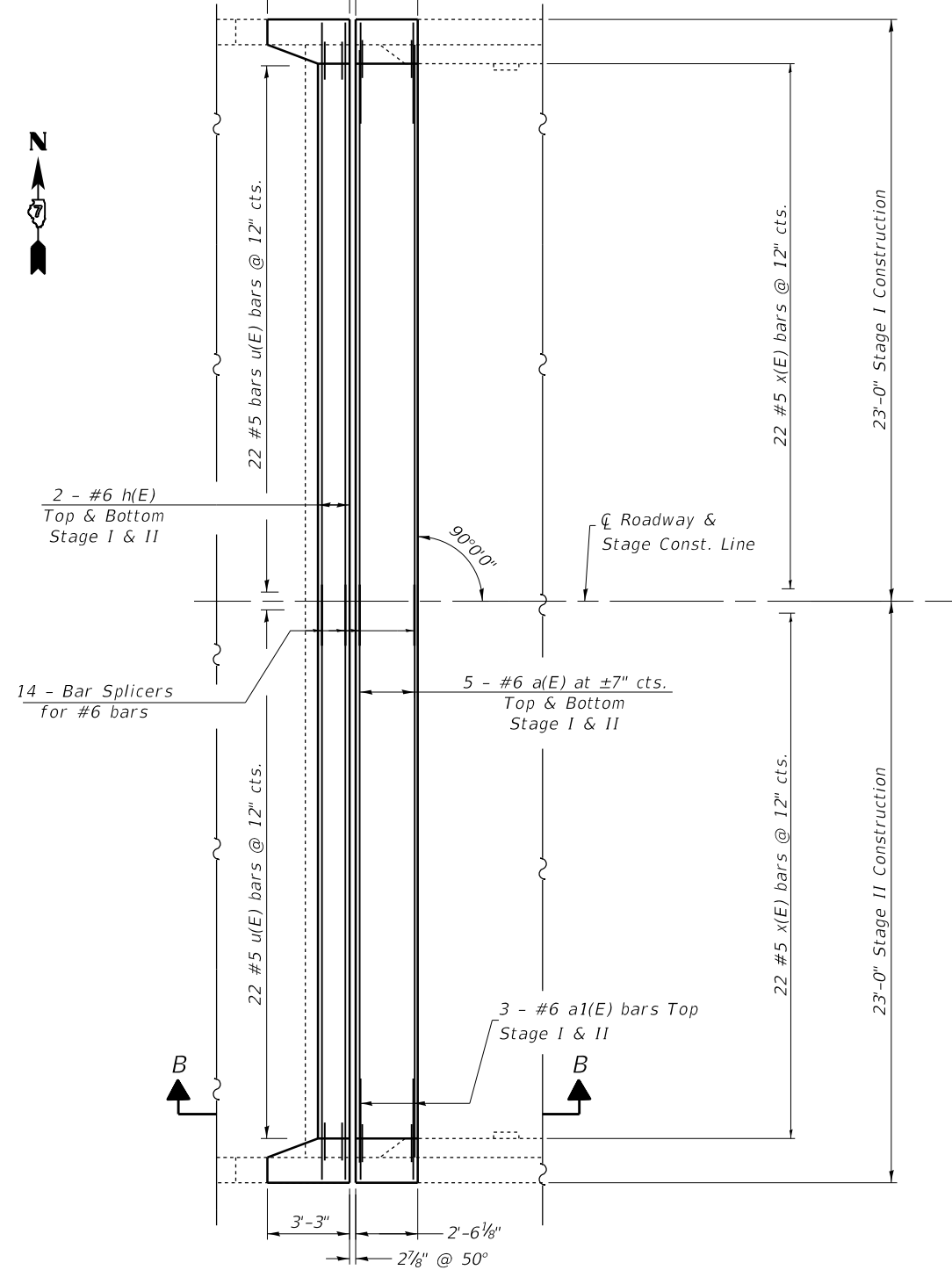


JOINT REMOVAL PLAN
West Abutment Shown
East Abutment Similar

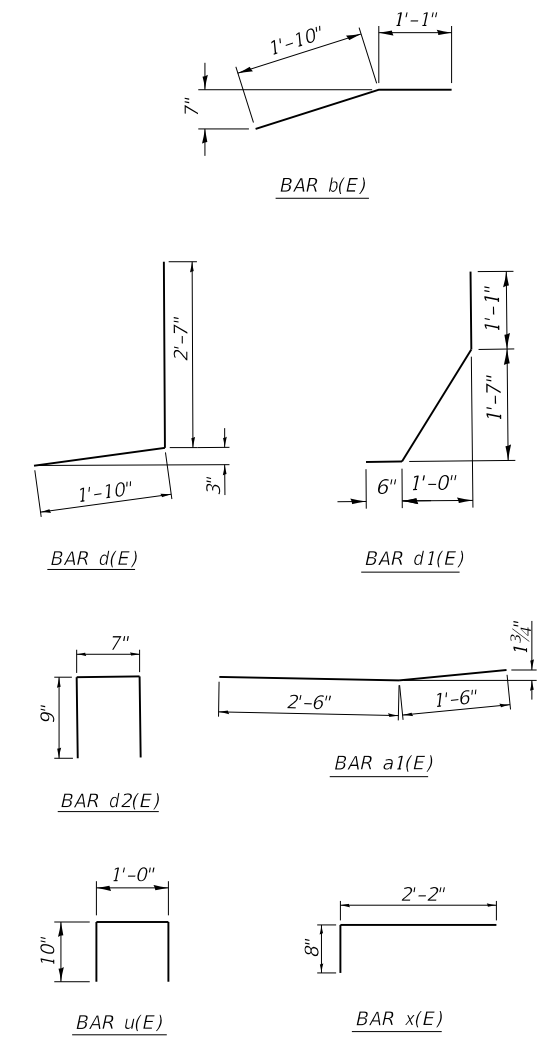
Note:
Hatched Area Indicates Removal

4 - #4 d3(E) at 12"± cts. Each Face
2 - #4 d1(E) Inside Face
3 - #4 b(E) Inside Face
Stage I & II

4 - #4 d(E) at 9"± cts. Outside Face
4 - #4 d1(E) at 9"± cts. Inside Face
2 - #4 d2(E) bars @ rail post
Stage I & II



REINFORCEMENT PLAN
West Abutment Shown
East Abutment Similar



BILL OF MATERIALS - TWO ABUTMENTS

Bar	No.	Size	Length	Shape
a (E)	40	#6	21'-10"	—
a1(E)	12	#6	4'-0"	—
d (E)	16	#4	4'-5"	J
d1(E)	24	#5	3'-5"	J
d2(E)	8	#4	2'-1"	П
d3(E)	32	#4	4'-4"	—
b(E)	12	#4	2'-11"	—
x(E)	88	#5	2'-10"	—
u(E)	88	#5	2'-8"	П
h(E)	16	#6	22'-6"	—
ITEM	UNIT	QUANTITY		
Concrete Removal	Cu. Yd.	18.0		
Concrete Superstructure	Cu. Yd.	18.3		
Bar Splicers	Each	28		
Reinforcement Bars, Epoxy Coated	Pound	2690		

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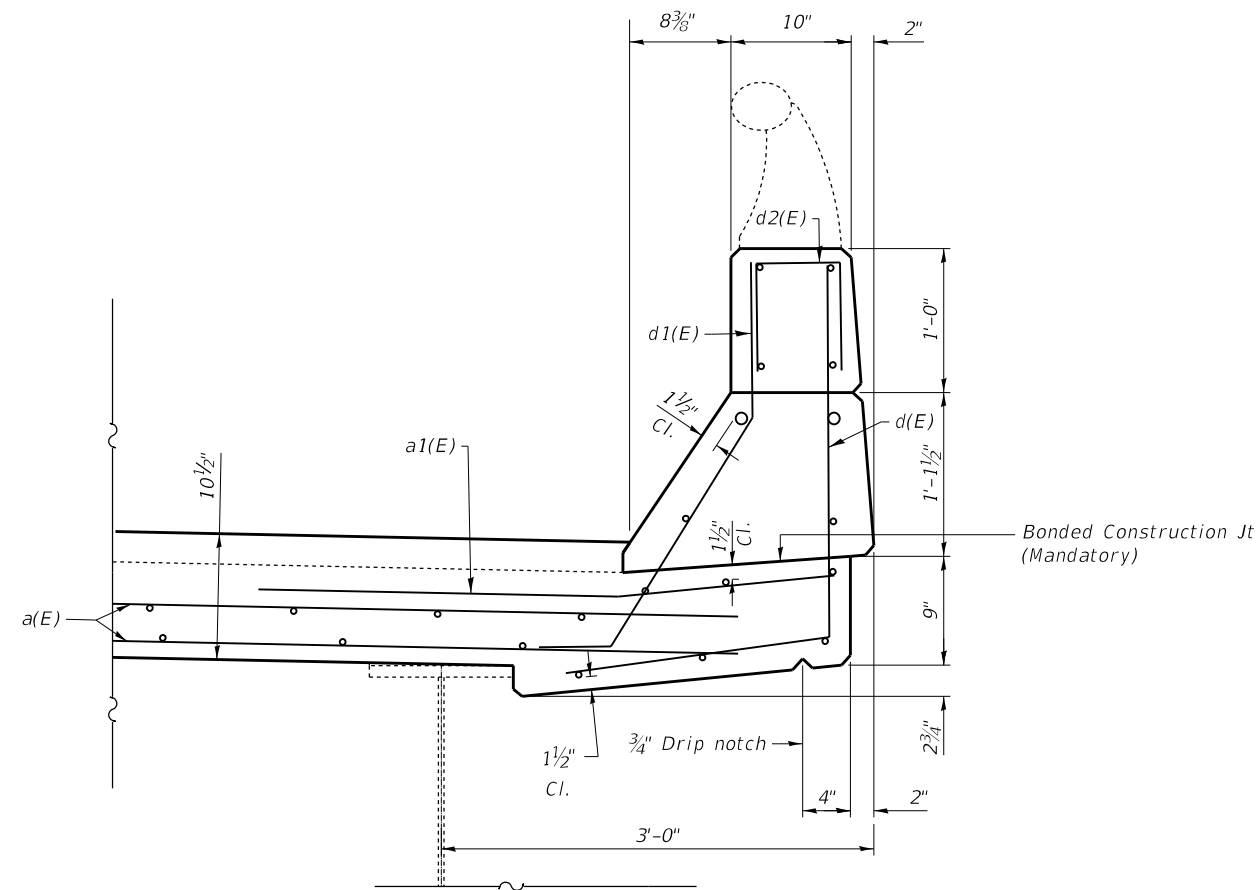
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PLOT DATE = 8/13/2020	CHECKED - D. MACKLIN	REVISED -
	DATE - 04/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

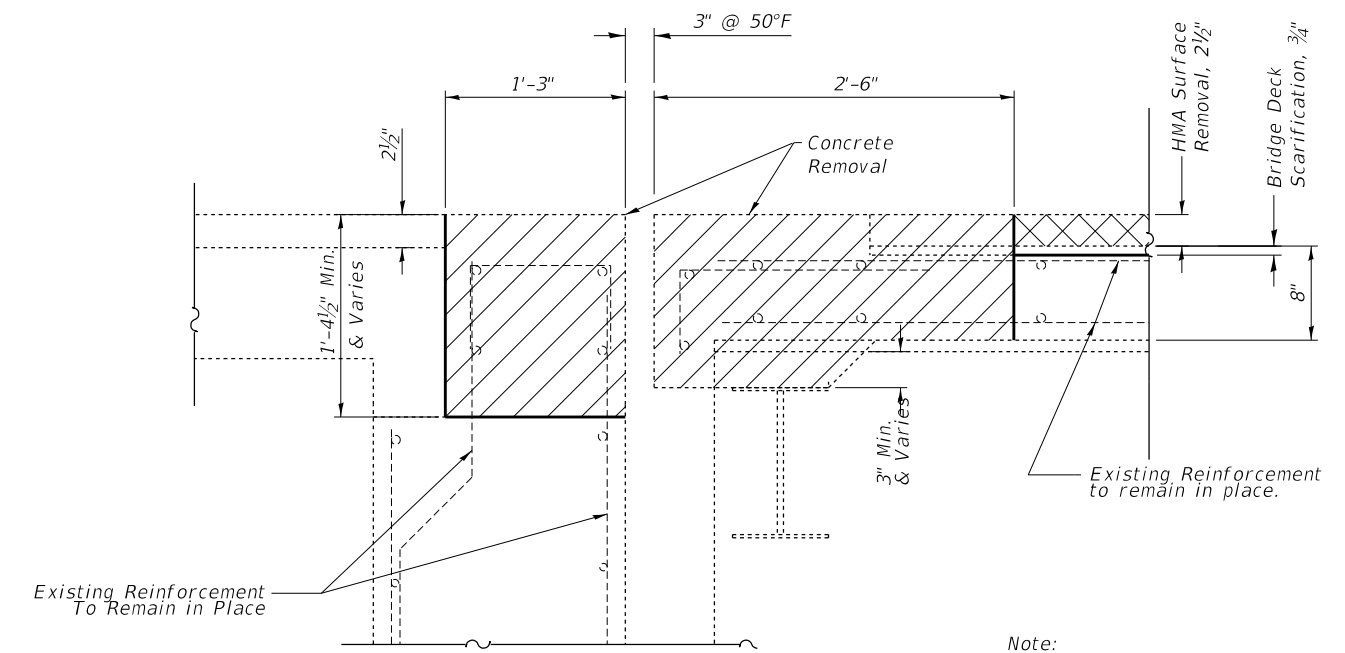
**EXPANSION JOINT REPLACEMENT DETAILS
STRUCTURE 040-0017**

SCALE: SHEET 3 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	13
CONTRACT NO. 74993			ILLINOIS FED. AID PROJECT	

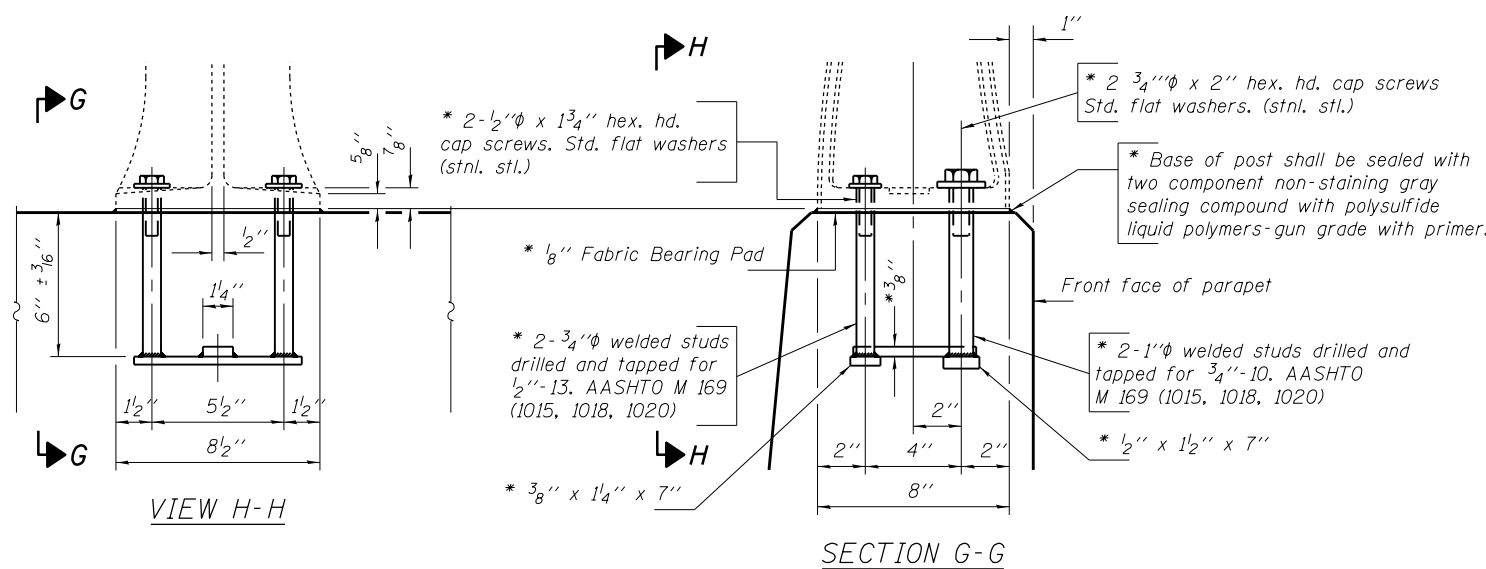


SECTION THRU BRIDGE DECK PARAPET

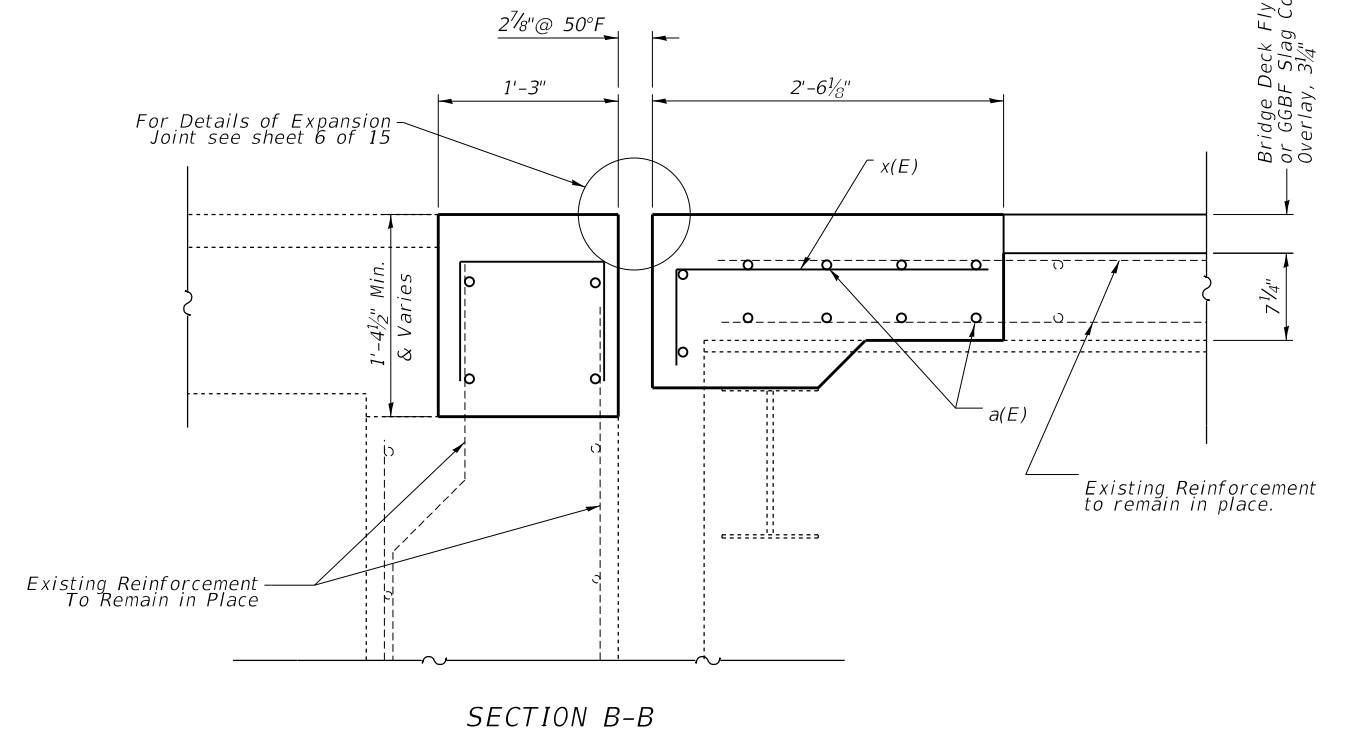


SECTION A-A

Note:
Hatched Areas
Indicate Removal



RAIL POST DETAILS
(4 Locations Required)



SECTION B-B

* New Rail Post anchorage devices will be required at each location where posts are connected to new construction. Cost shall be included with Concrete Superstructure. In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

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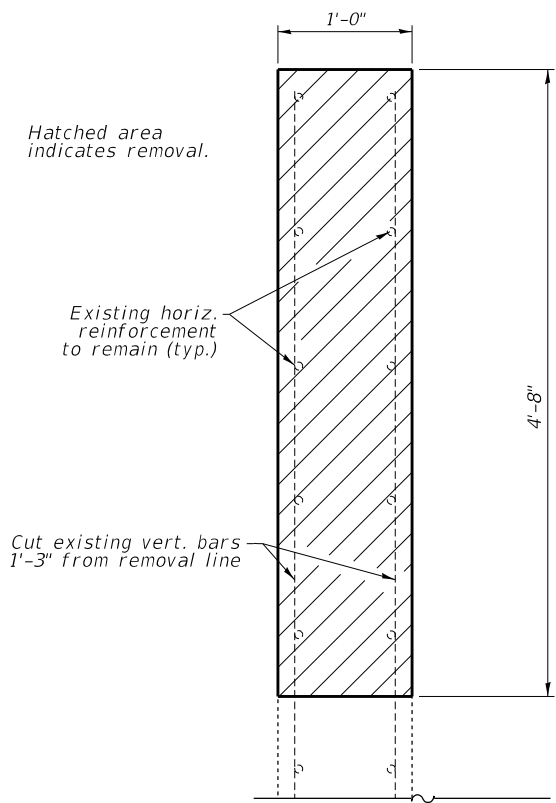
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	DATE - 04/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

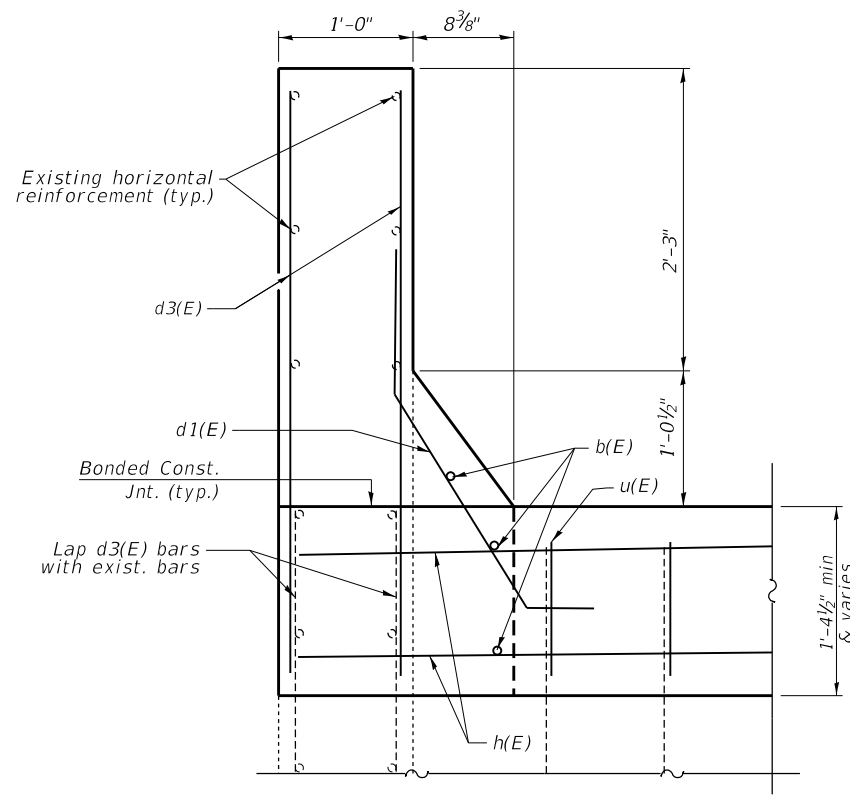
EXPANSION JOINT REPLACEMENT DETAILS
STRUCTURE 040-0017

SCALE: SHEET 4 OF 15 SHEETS STA. TO STA.

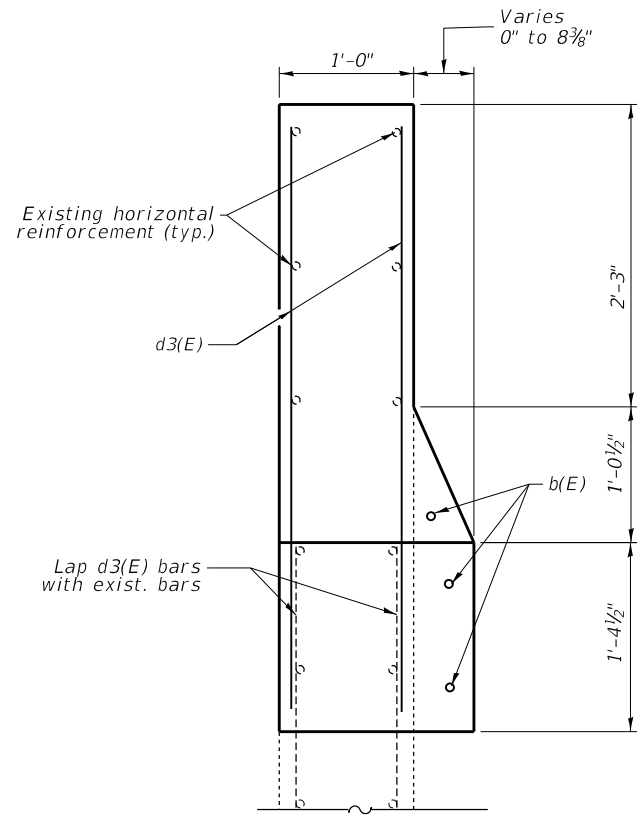
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CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				



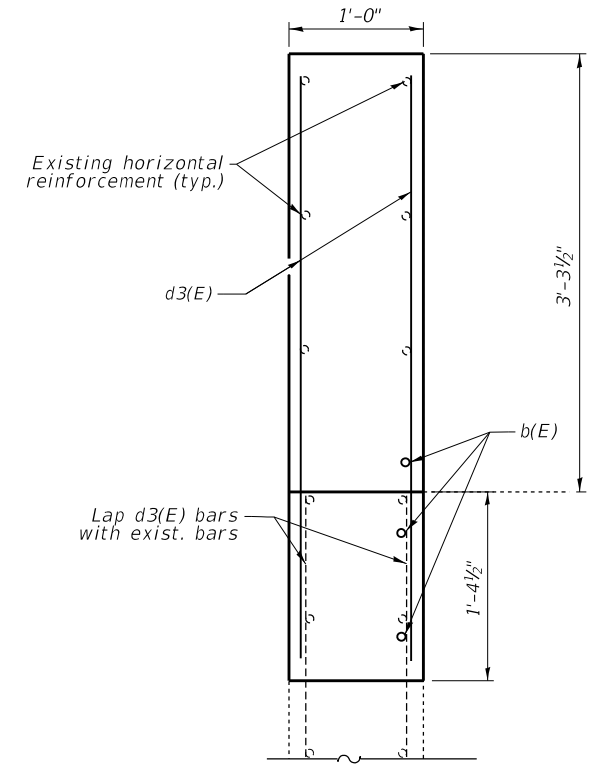
SECTION C-C
Removal section at wing wall



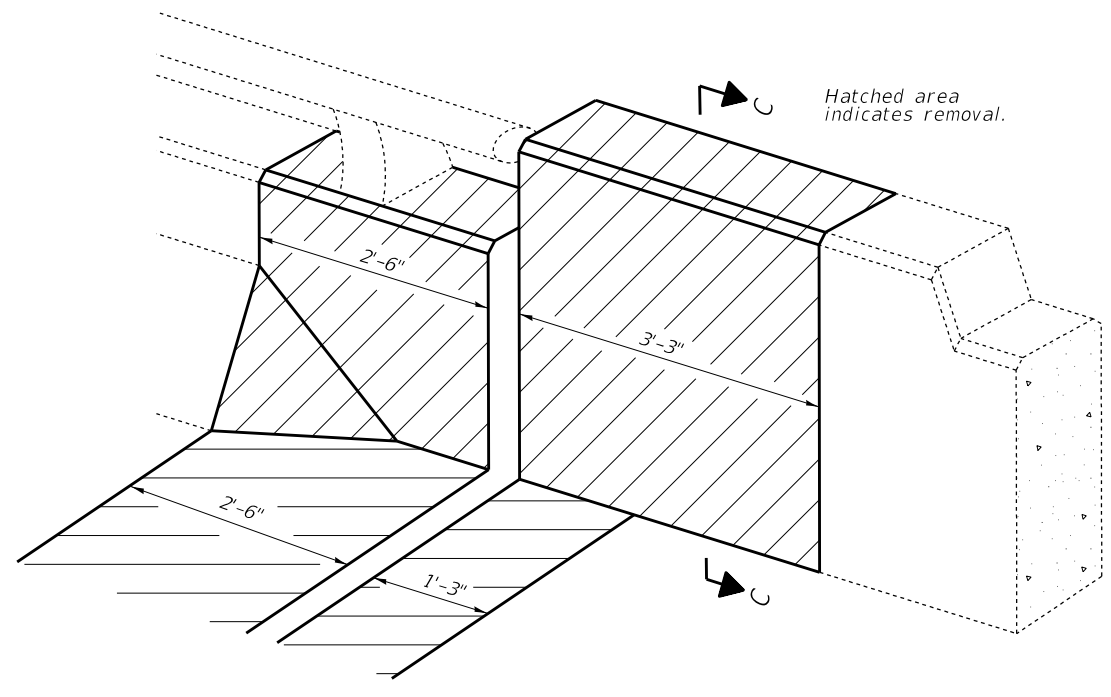
SECTION D-D
Proposed section thru wing wall at expansion joint



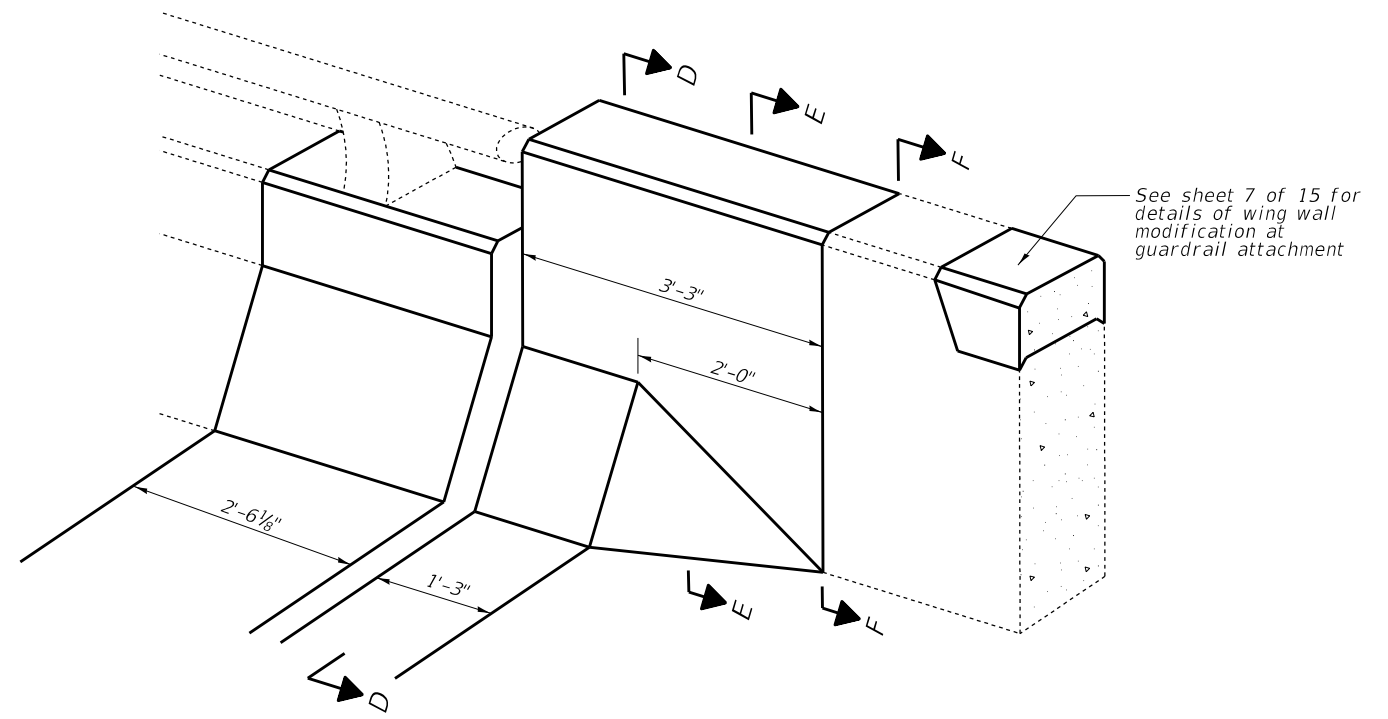
SECTION E-E
Section thru proposed wing wall transition



SECTION F-F
Section thru end of proposed wing wall



TYPICAL CONCRETE REMOVAL AT EACH ABUTMENT CORNER



TYPICAL PROPOSED WING WALL AT EACH ABUTMENT CORNER

MODEL: Default
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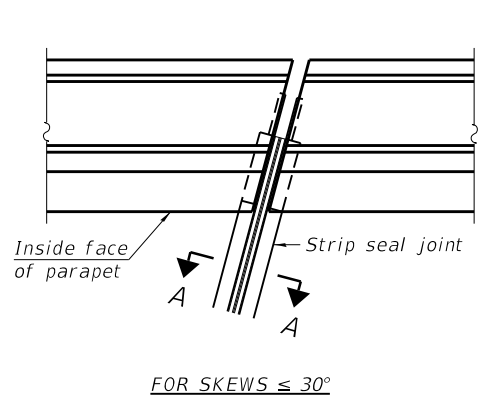
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PLOT DATE = 8/13/2020	DATE - 04/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

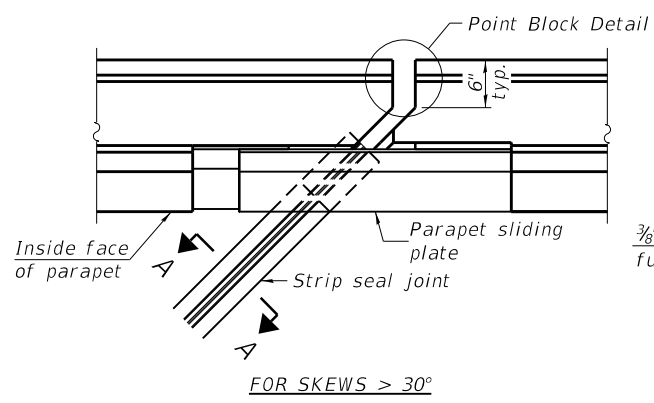
**WING WALL MODIFICATION AT EXPANSION JOINTS
STRUCTURE 040-0017**

SCALE: SHEET 5 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

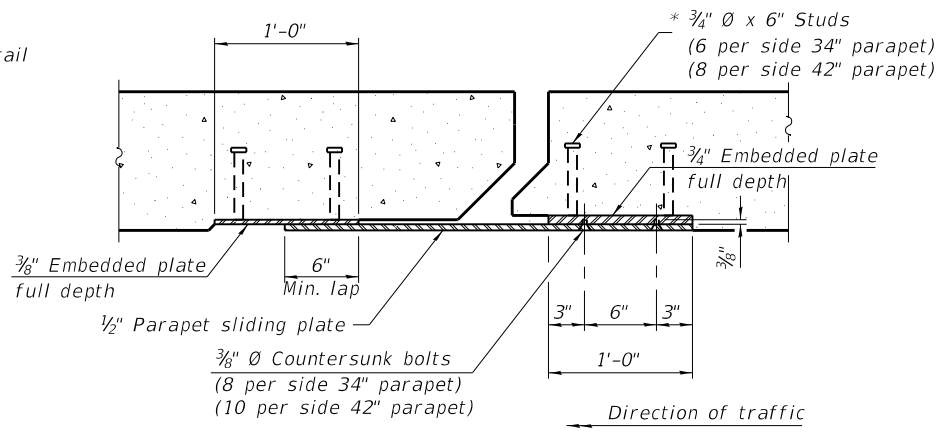


FOR SKEWS $\leq 30^\circ$

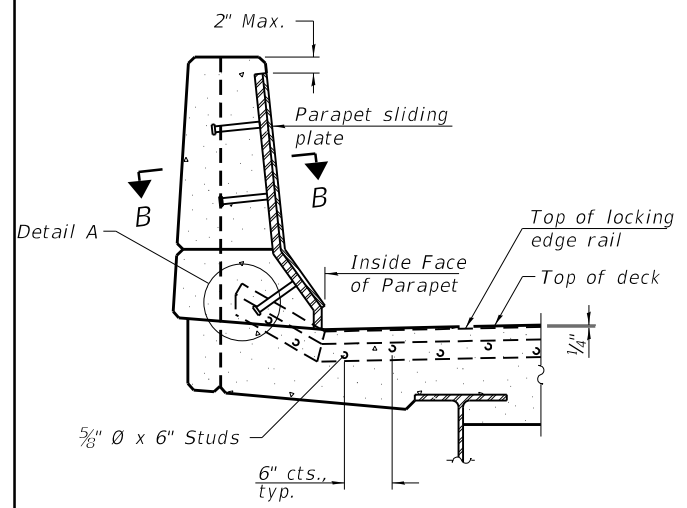


FOR SKEWS $> 30^\circ$

PLAN AT PARAPET

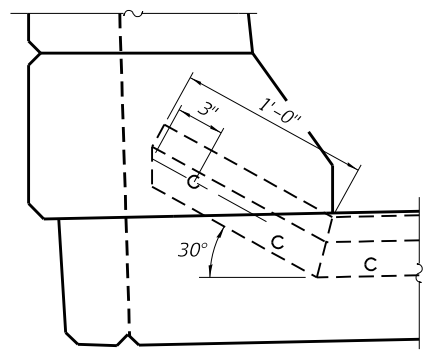


SECTION B-B

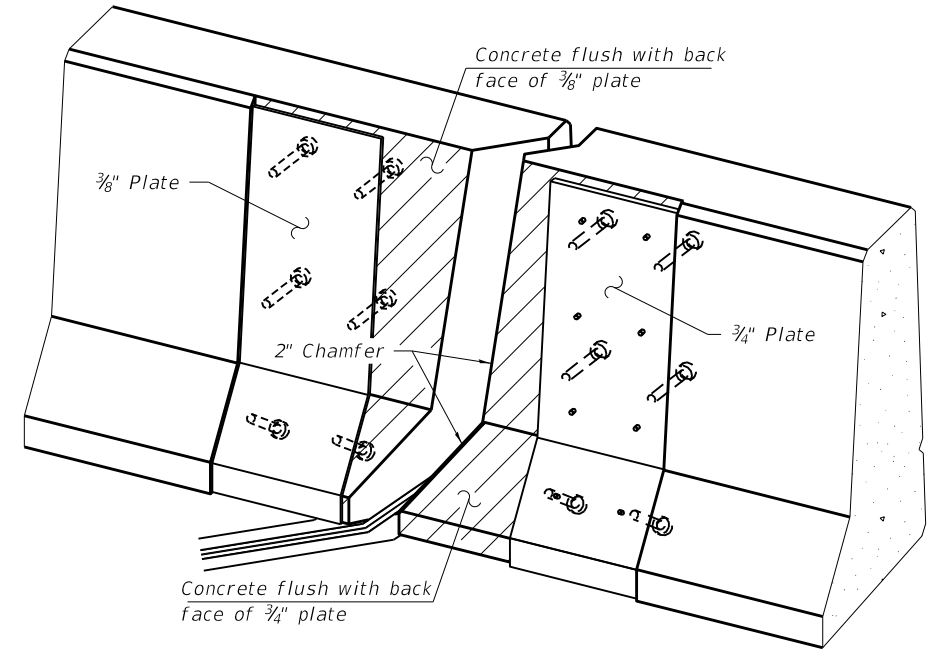


ELEVATION AT PARAPET

(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)

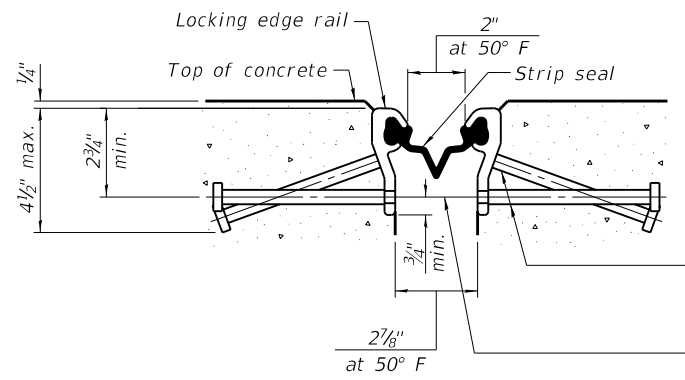


DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 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 4 1/2" 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 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.



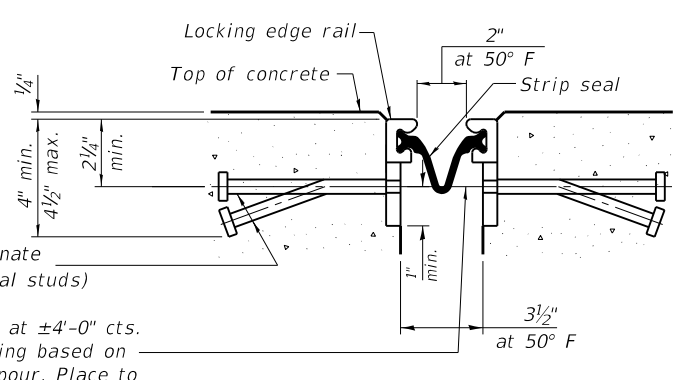
SHOWING ROLLED RAIL JOINT

* 5/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

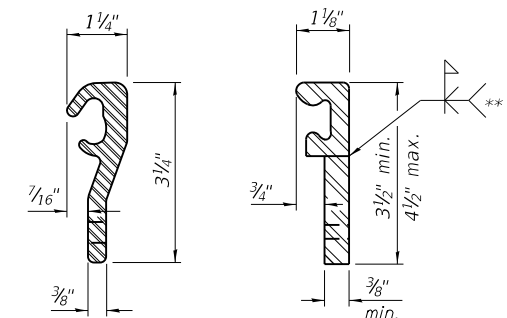
3/8" ϕ threaded rods in 7/16" ϕ holes at ± 4 -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

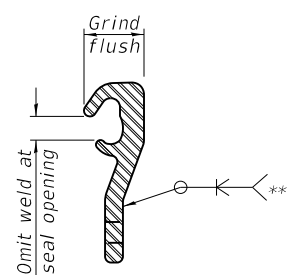


SHOWING WELDED RAIL JOINT



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	89

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 FILE: A:\bldg\pub\baroncom.dwg
 PROJECT: 74993\CADD\DATA\CAD\DETAILS\74993_040-0017_Repairs.dwg

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PLOT SCALE = 100.0000' / in.	DRAWN - R. BALLARD	REVISED -
PLOT DATE = 8/13/2020	CHECKED - D. MACKLIN	REVISED -
	DATE - 04/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL DETAIL
 STRUCTURE NO. 040-0017**

SCALE: SHEET 6 OF 15 SHEETS STA. TO STA.

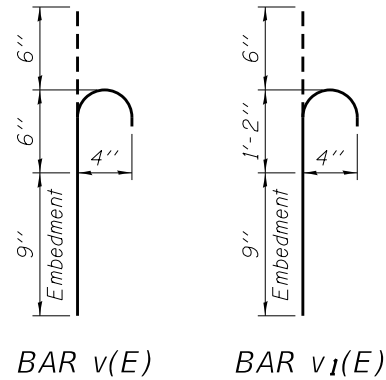
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74993	

NOTES

All edges shall have standard ($\frac{3}{4}$ " chamfers.

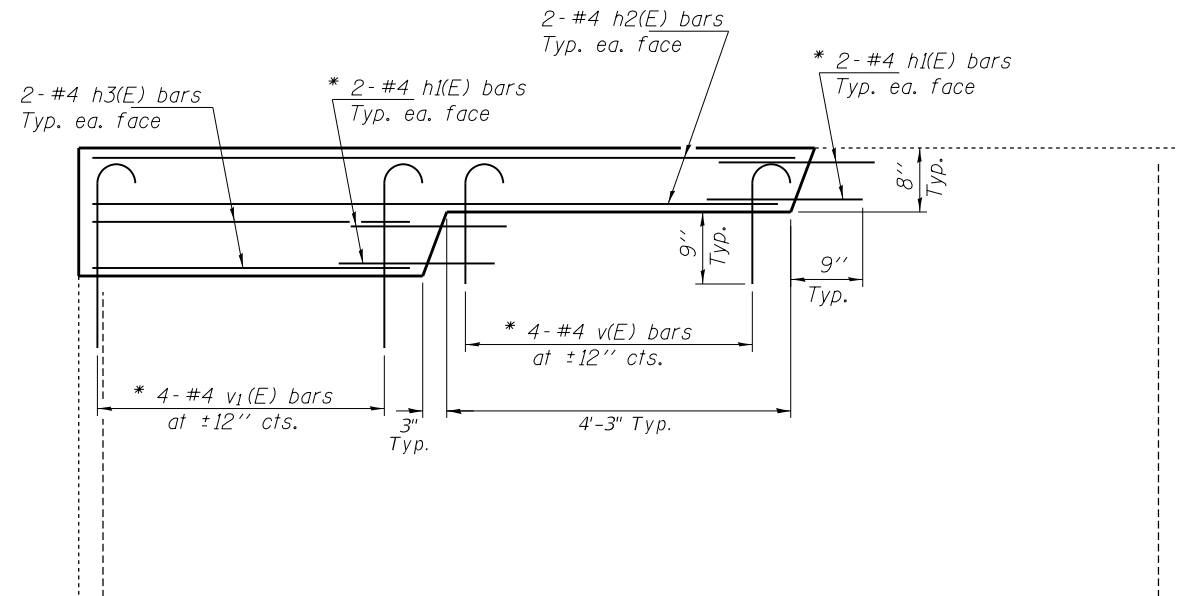
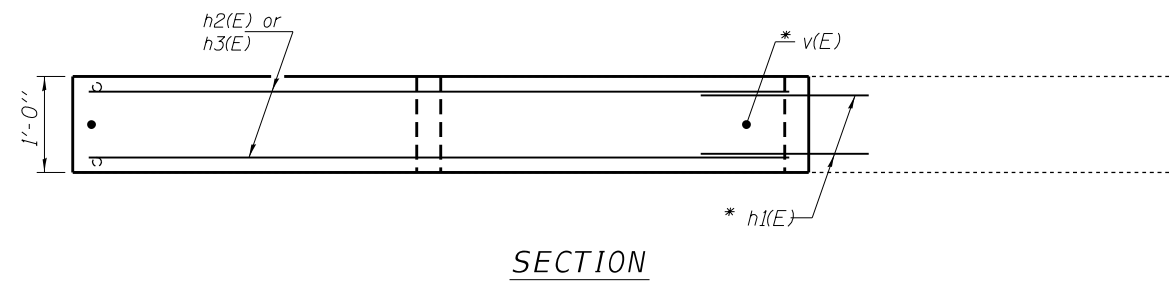
Reinforcement bars designated (E) shall be epoxy coated

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 fo the work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

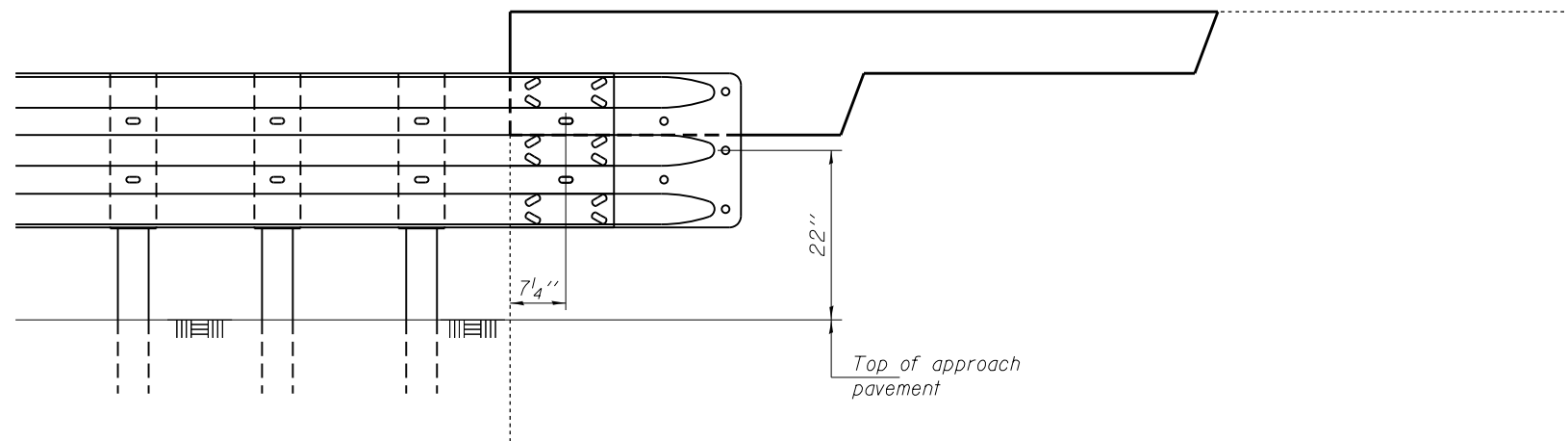


BILL OF MATERIAL FOUR WINGWALLS

Bar	No.	Size	Length	Shape
h1(E)	32	#4	1'-9"	—
h2(E)	16	#4	7'-1"	—
h3(E)	16	#4	3'-3"	—
v(E)	16	#4	1'-3"	U
v1(E)	16	#4	2'-5"	U
Concrete Superstructure			Cu. Yd.	1.3
Reinforcement Bars, Epoxy Coated			Pound	190



* Epoxy grout h(E), v(E) & v1(E) bars in 9" min. holes according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.



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PLOT SCALE = 100.0000 ' / in.
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DESIGNED - R. BALLARD
DRAWN - R. BALLARD
CHECKED - D. MACKLIN
DATE - 04/2020

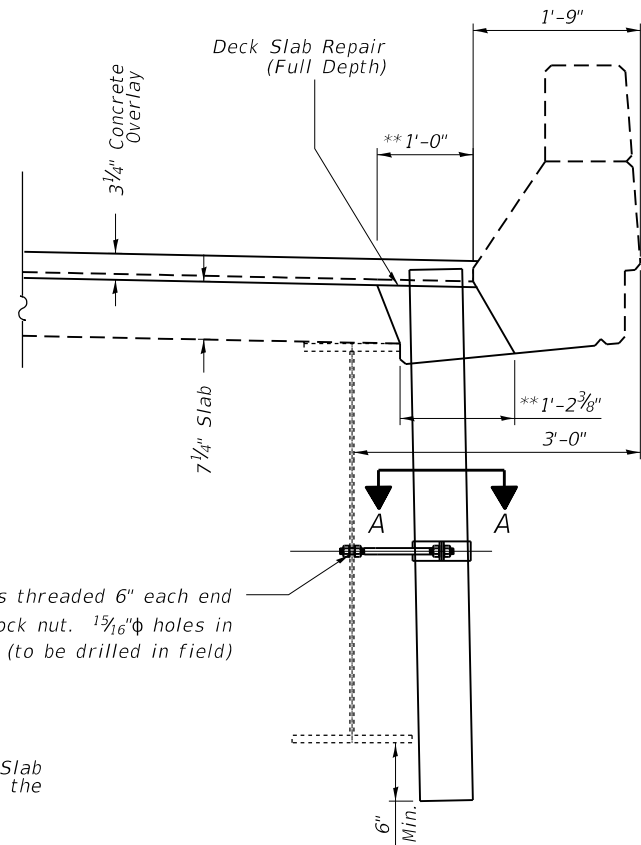
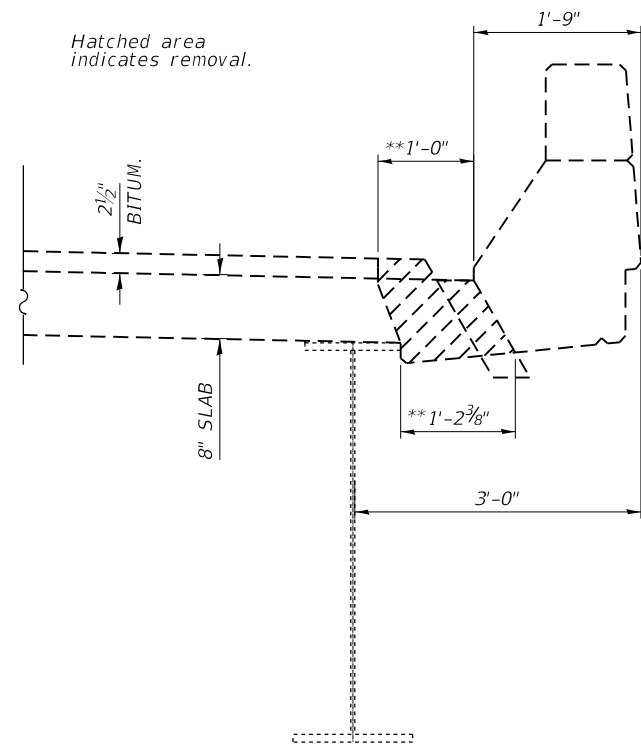
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WING WALL MODIFICATION FOR GUARDRAIL ATTACHMENT
STRUCTURE 040-0017

SCALE: SHEET 7 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74993	



3/4" ϕ Steel Stud Bolts threaded 6" each end with 2 washers & lock nut. 1 5/16" ϕ holes in center of web (to be drilled in field)

** Actual dimensions of Deck Slab Repair shall be determined by the Engineer

SECTION THRU DRAIN TO BE REPLACED

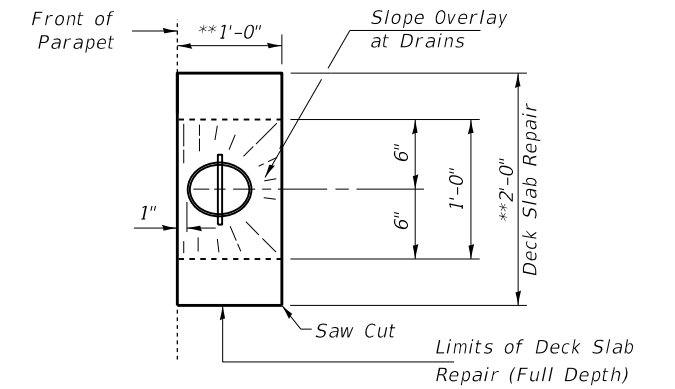
60 LOCATIONS - SEE BRIDGE DECK PACHING SHEETS

NOTES

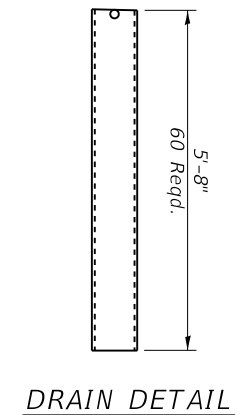
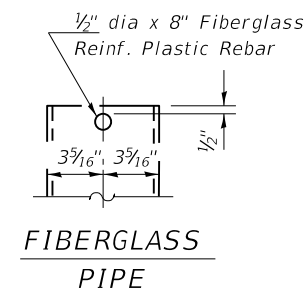
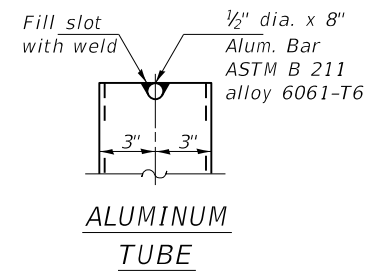
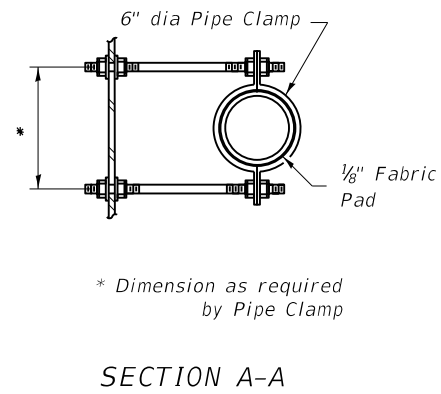
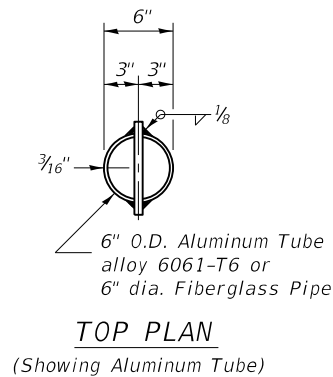
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

Galvanize clamping device according to AASHTO M232. Cost of clamping device, bolts and galvanizing is included with Floor Drains.

Concrete removal and replacement quantites and locations for drains are included in Deck Slab Repair (Full Depth, Type I) as shown on "Bridge Deck Patching Sheets".



TOP PLAN DECK REPAIR AT PROPOSED DRAINS



MODEL: Default
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	DRAWN - R. BALLARD	REVISED -
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PLOT DATE = 8/13/2020	DATE - 04/2020	REVISED -

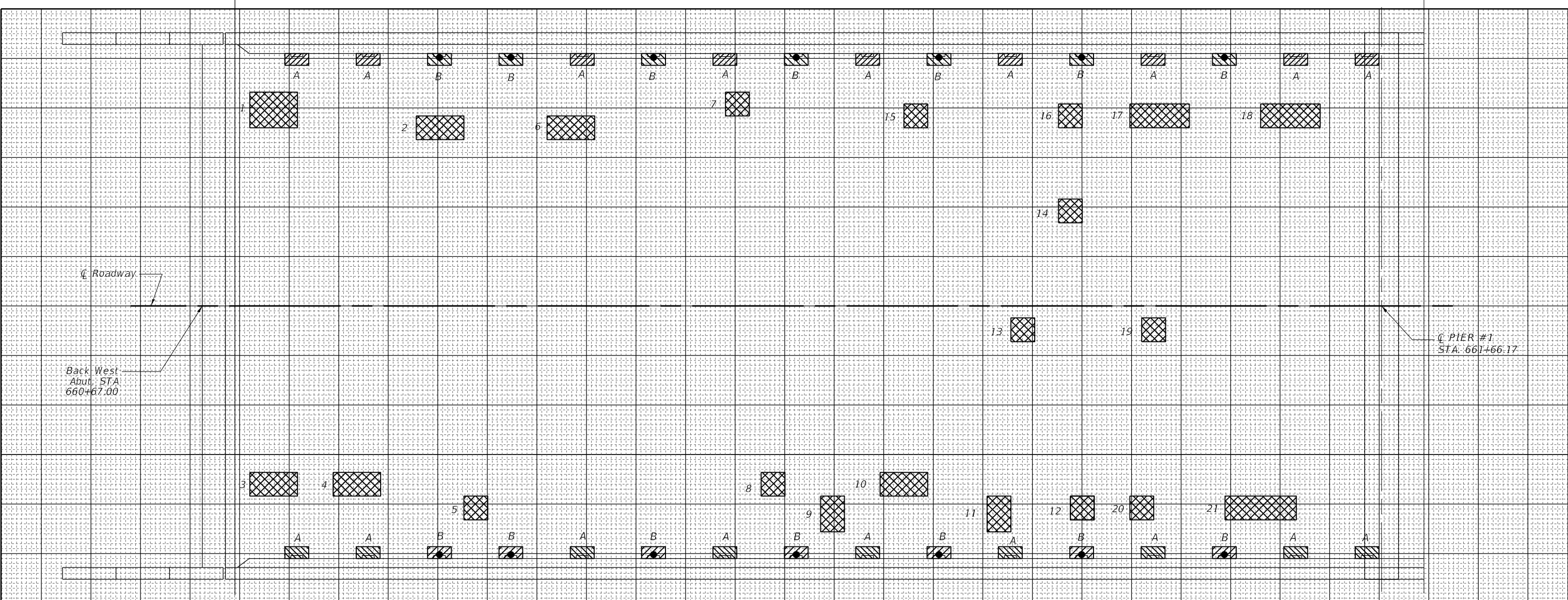
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK DRAIN REPLACEMENT DETAILS
STRUCTURE 040-0017**

SCALE: SHEET 8 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	18
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 74993				

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PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I) SQ YD	DECK SLAB REPAIR (FD TY II) SQ YD
	LENGTH	WIDTH		
1	4.0	3.0		1.3
2	4.0	2.0		0.9
3	4.0	2.0		0.9
4	4.0	2.0		0.9
5	2.0	2.0	0.44	
6	4.0	2.0		0.9
7	2.0	2.0	0.44	
8	2.0	2.0	0.44	
9	2.0	3.0		0.7
10	4.0	2.0		0.9
11	2.0	3.0		0.7
12	2.0	2.0	0.44	
13	2.0	2.0	0.44	
14	2.0	2.0	0.44	
15	2.0	2.0	0.44	
16	2.0	2.0	0.44	
17	5.0	2.0		1.1

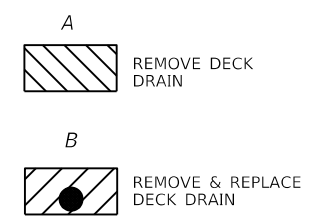
PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I) SQ YD	DECK SLAB REPAIR (FD TY II) SQ YD
	LENGTH	WIDTH		
18	5.0	2.0		1.1
19	2.0	2.0	0.44	
20	2.0	2.0	0.44	
21	6.0	2.0		1.3
A-Remove Drain-18ea			3.96	
B-Replace Drain-14ea			3.08	
PAGE TOTALS			11.5	10.7

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 3-17-2020
 SURVEY BY: DPM & RAW
 METHOD OF SURVEY: VISUAL

A & B = Deck Slab Repair (Full Depth, Type 1)
 $2ft^2 = .22yd^2$ Each



USER NAME = stefenmk	DESIGNED - R. BALLARD	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - R. BALLARD	REVISED -
PLOT DATE = 8/13/2020	CHECKED - D. MACKLIN	REVISED -
	DATE - 04/2020	REVISED -

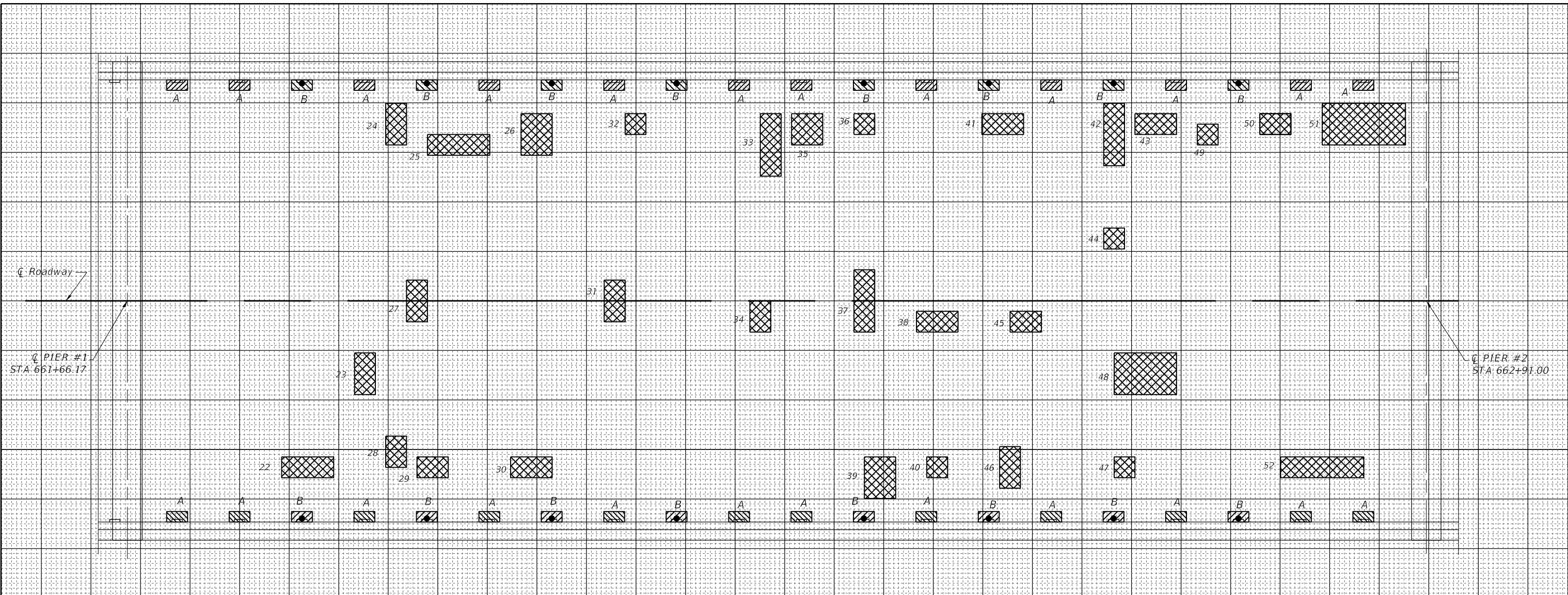
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING - SPAN 1
 SN 040-0017

SCALE: SHEET 9 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	19
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

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PATCH NO.	LENGTH	WIDTH	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 1) SQ YD
22	5.0	2.0		1.1
23	2.0	4.0		0.9
24	2.0	4.0		0.9
25	6.0	2.0		1.3
26	3.0	4.0		1.3
27	2.0	4.0		0.9
28	2.0	3.0		0.7
29	3.0	2.0		0.7
30	4.0	2.0		0.9
31	2.0	4.0		0.9
32	2.0	2.0	0.44	
33	2.0	6.0		1.3
34	2.0	3.0		0.7
35	3.0	3.0		1.0
36	2.0	2.0	0.44	
37	2.0	6.0		1.3
38	4.0	2.0		0.9

PATCH NO.	LENGTH	WIDTH	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 1) SQ YD
39	3.0	4.0		1.3
40	2.0	2.0	0.44	
41	4.0	2.0		0.9
42	2.0	6.0		1.3
43	4.0	2.0		0.9
44	2.0	2.0	0.44	
45	3.0	2.0		0.7
46	2.0	4.0		0.9
47	2.0	2.0	0.44	
48	6.0	4.0		2.7
49	2.0	2.0	0.44	
50	3.0	2.0		0.7
51	8.0	4.0		3.6
52	8.0	2.0		1.8

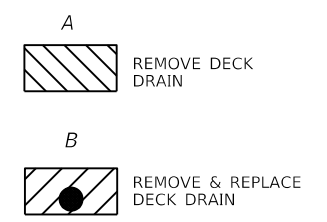
PATCH NO.	LENGTH	WIDTH	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 2) SQ YD
A-Remove Drain-24ea				
B-Replace Drain-16ea				
PAGE TOTALS			11.5	29.4

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 3-17-2020
 SURVEY BY: DPM & RAW
 METHOD OF SURVEY: VISUAL

A & B = Deck Slab Repair (Full Depth, Type 1)
 2ft² = .22yd² Each



USER NAME = steffemk	DESIGNED - R. BALLARD	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - R. BALLARD	REVISED -
PLOT DATE = 8/13/2020	CHECKED - D. MACKLIN	REVISED -
	DATE - 04/2020	REVISED -

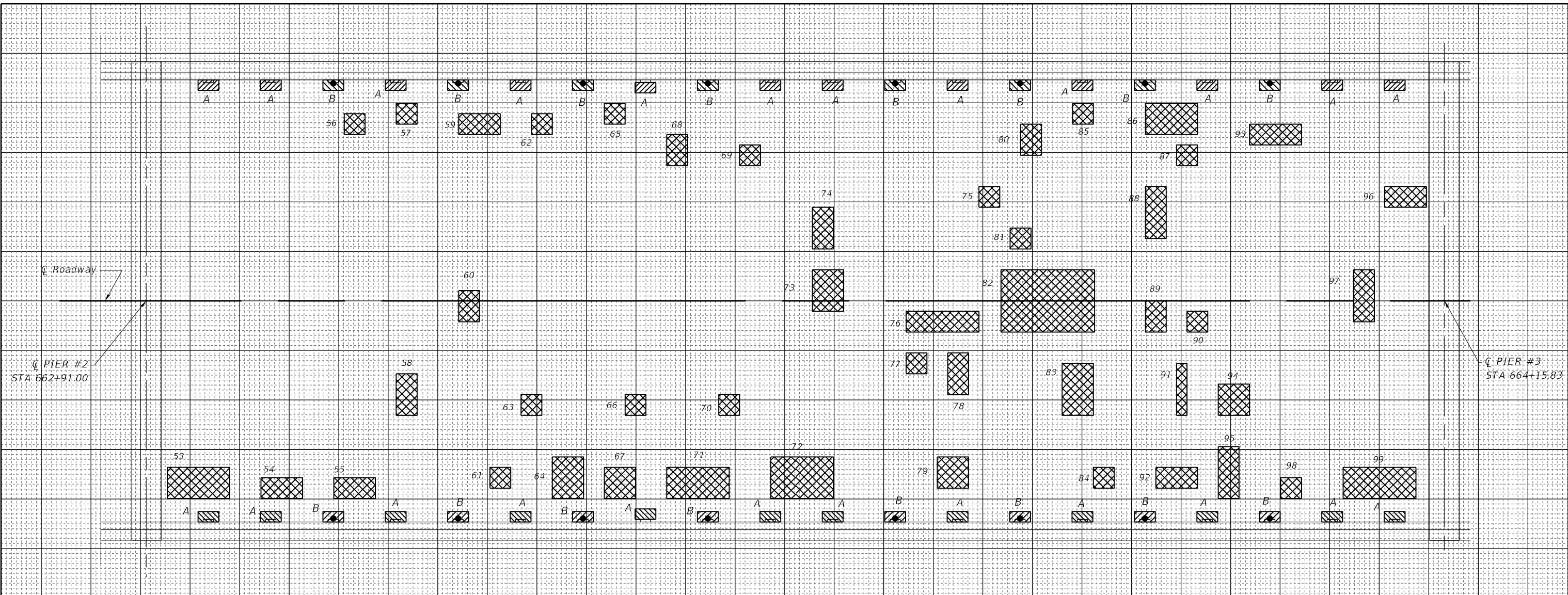
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING - SPAN 2
 SN 040-0017

SCALE: SHEET 10 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	20
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

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PATCH NO.	LENGTH	WIDTH	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 2) SQ YD
53	6.0	3.0		2.0
54	4.0	2.0		0.9
55	4.0	2.0		0.9
56	2.0	2.0	0.44	
57	2.0	2.0	0.44	
58	2.0	4.0		0.9
59	4.0	2.0		0.9
60	2.0	3.0		0.7
61	2.0	2.0	0.44	
62	2.0	2.0	0.44	
63	2.0	2.0	0.44	
64	3.0	4.0		1.3
65	2.0	2.0	0.44	
66	2.0	2.0	0.44	
67	3.0	3.0		1.0
68	2.0	3.0		0.7
69	2.0	2.0	0.44	

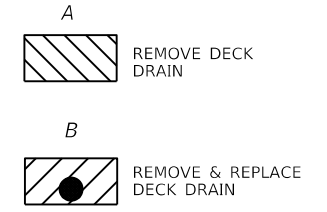
PATCH NO.	LENGTH	WIDTH	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 2) SQ YD
70	2.0	2.0	0.44	
71	6.0	3.0		2.0
72	6.0	4.0		2.7
73	3.0	4.0		1.3
74	2.0	4.0		0.9
75	2.0	2.0	0.44	
76	7.0	2.0		1.6
77	2.0	2.0	0.44	
78	2.0	4.0		0.9
79	3.0	3.0		1.0
80	2.0	3.0		0.7
81	2.0	2.0	0.44	
82	9.0	6.0		6.0
83	3.0	5.0		1.7
84	2.0	2.0	0.44	
85	2.0	2.0	0.44	
86	5.0	3.0		1.7

PATCH NO.	LENGTH	WIDTH	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 2) SQ YD
87	2.0	2.0	0.44	
88	2.0	5.0		1.1
89	2.0	3.0		0.7
90	2.0	2.0	0.44	
91	1.0	5.0	0.56	
92	4.0	2.0		0.9
93	5.0	2.0		1.1
94	3.0	3.0		1.0
95	2.0	5.0		1.1
96	4.0	2.0		0.9
97	2.0	5.0		1.1
98	2.0	2.0	0.44	
99	7.0	3.0		2.3
A-Remove Drain-24ea			5.28	
B-Replace Drain-16ea			3.52	
PAGE TOTALS			16.9	39.8

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



A & B = Deck Slab Repair (Full Depth, Type 1)
 $2ft^2 = .22yd^2$ Each



DATE OF SURVEY: 3-17-2020
 SURVEY BY: DPM & RAW
 METHOD OF SURVEY: VISUAL

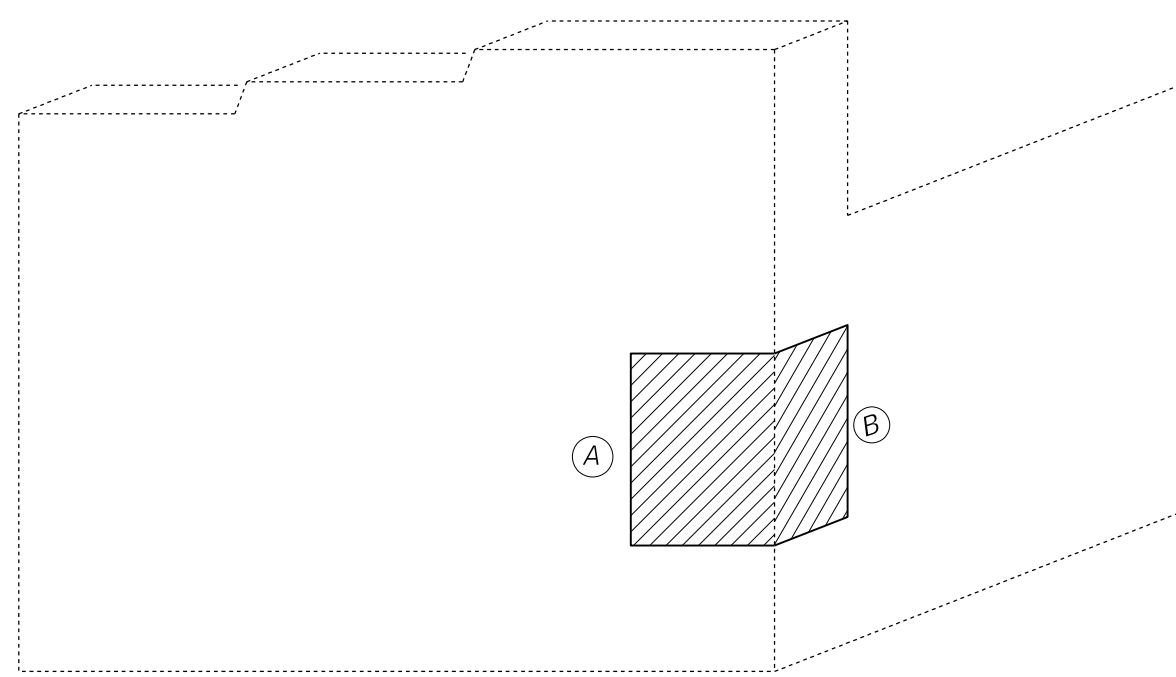
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PLOT SCALE = 100,000' / in.	DRAWN - R. BALLARD	REVISED -
PLOT DATE = 8/13/2020	CHECKED - D. MACKLIN	REVISED -
	DATE - 04/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

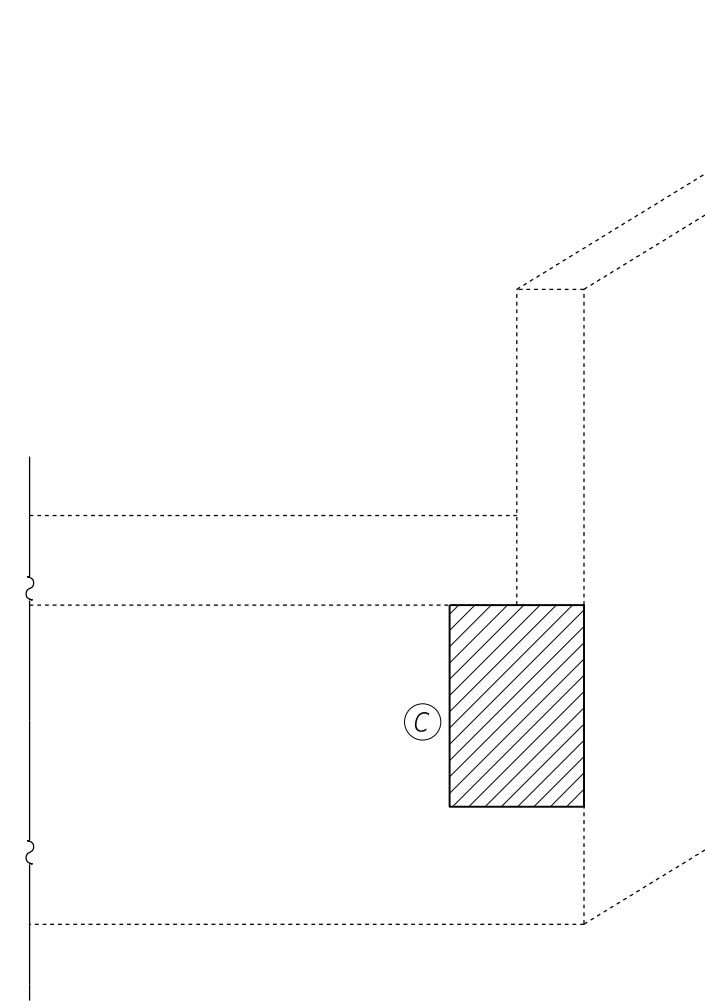
BRIDGE DECK PATCHING - SPAN 3
 SN 040-0017

SCALE: SHEET 11 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	21
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				



Southwest Wingwall Repair



East Abutment Repair
(south end)



STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")

STRUCTURAL REPAIR OF CONCRETE
(DEPTH ≤ 5")

Location	Dimension	Area SqFt
A	4' x 3'	12
B	4' x 1'	4
C	3' x 2'	6
Total		22

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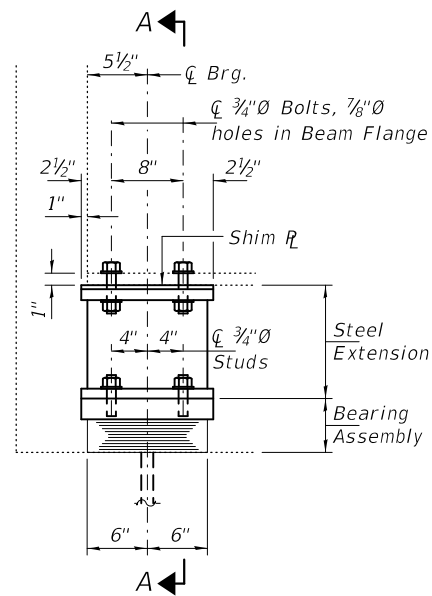
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PLOT DATE = 8/13/2020	DATE - 04/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL REPAIR OF CONCRETE
STRUCTURE 040-0017**

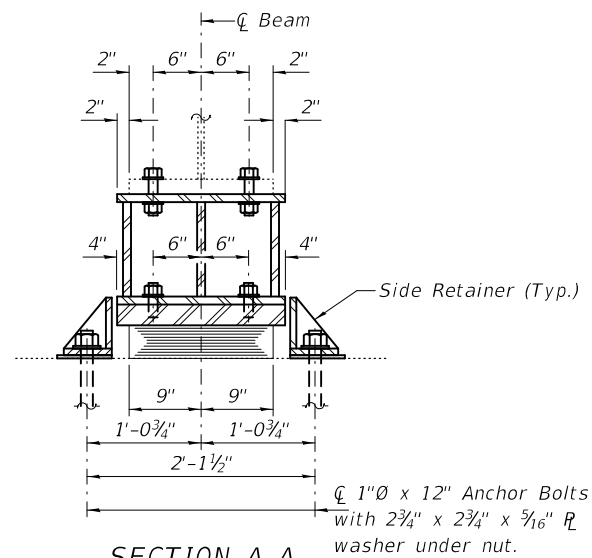
SCALE: SHEET 13 OF 15 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	23
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				



ELEVATION AT ABUTMENT

TYPE I ELASTOMERIC EXP. BRG.



SECTION A-A

BEAM REACTIONS

R _l	(K)	55
R _r	(K)	37
Imp.	(K)	9
R (Total)	(K)	101

Notes:

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

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

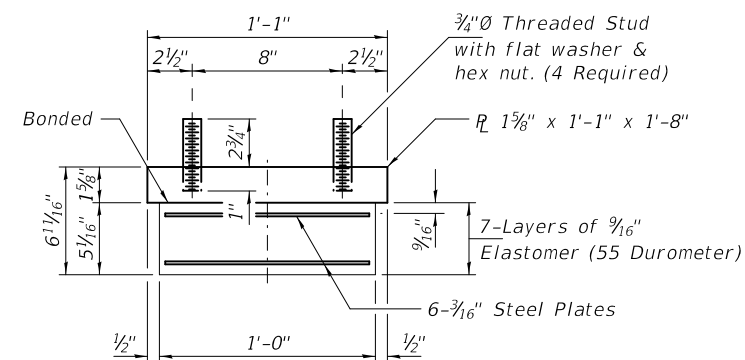
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 60 Tons.

Anchor bolts 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.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

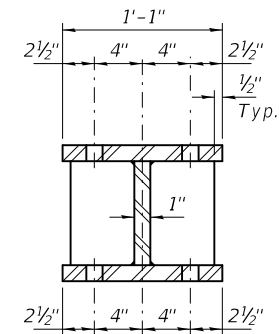
Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



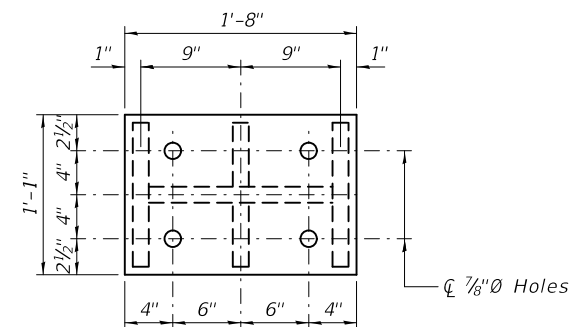
BEARING ASSEMBLY

Note:

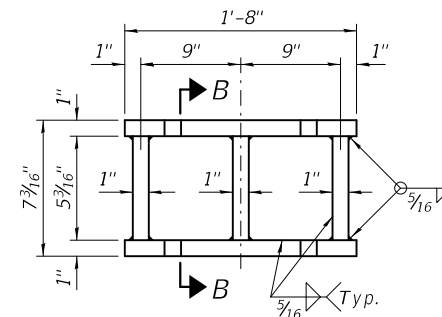
Shim plates shall not be placed under Bearing Assembly.



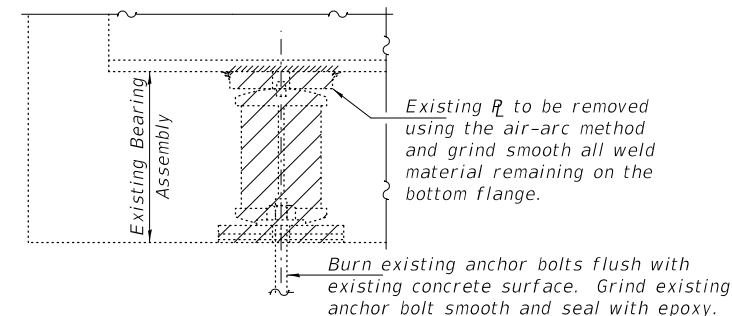
SECTION B-B



PLAN TOP AND BOTTOM PLATE

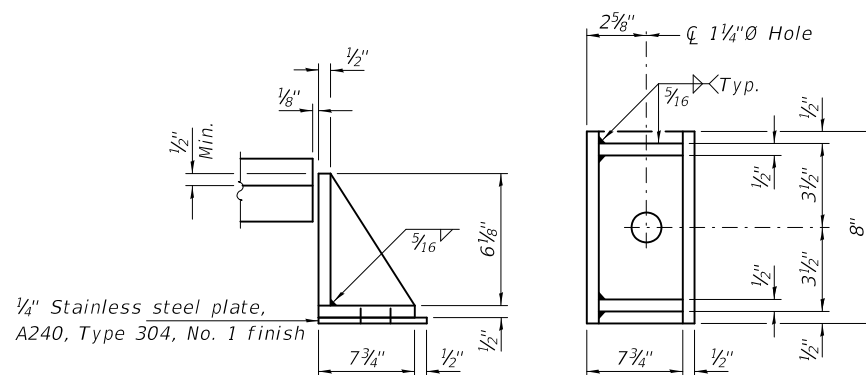


STEEL EXTENSION DETAIL



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



SIDE RETAINER

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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	12
Jack and Remove Existing Bearings	Each	12
Furnishing and Erecting Structural Steel	Pound	4220
Anchor Bolts, 1"Ø	Each	24

Expires: November 30, 2020
Seal applies to this sheet only.

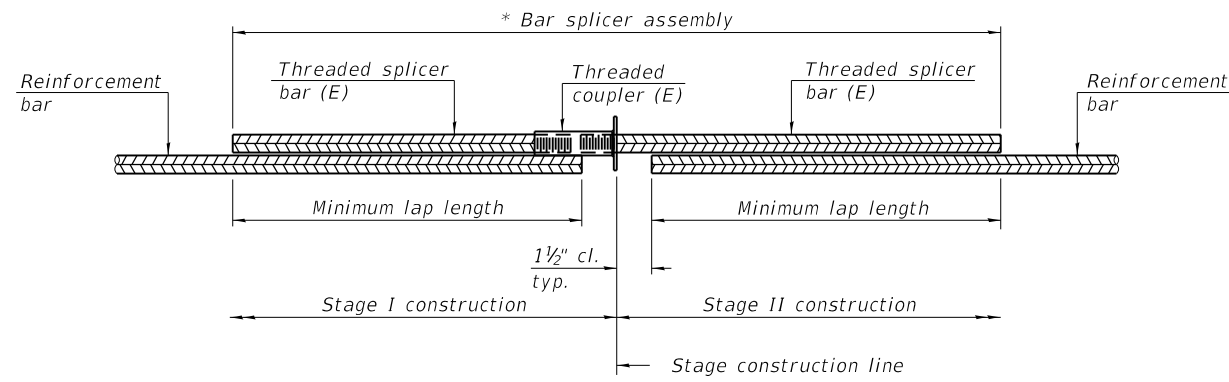
DESIGNED - STEPHEN M. RYAN	EXAMINED	DATE - SEPTEMBER 24, 2020
CHECKED - ADRIAN T. HALLOWAY	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED	REVISED -
CHECKED - SMR ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST & EAST ABUTMENT BEARING REPLACEMENT DETAILS
SN 040-0017**

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	D7 BRIDGE REPAIRS 2021-6	JASPER	31	24
ILLINOIS			CONTRACT NO. 74993	
FED. AID PROJECT				

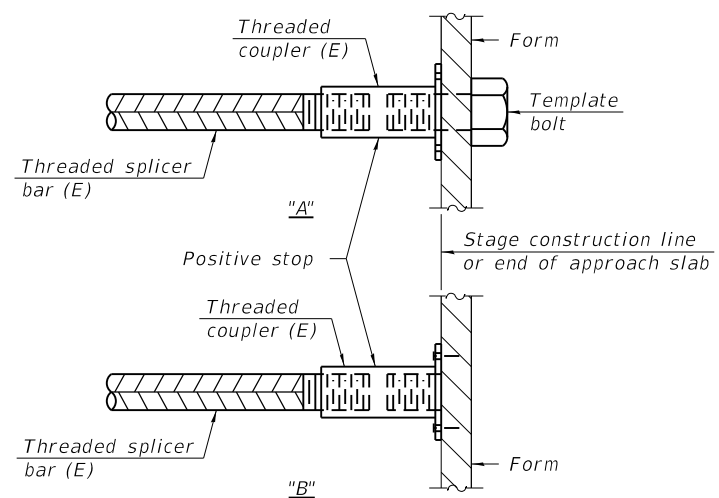


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

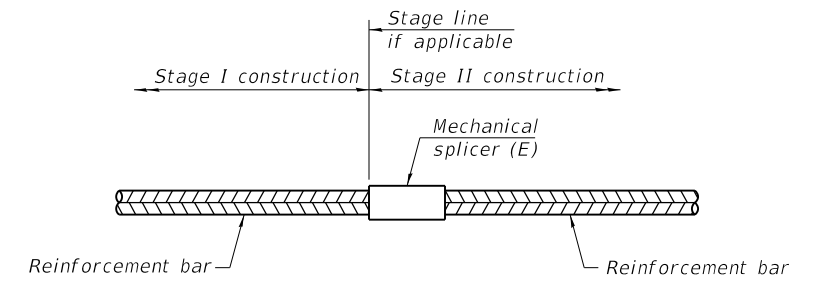
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top & Bott. Slab	#6	20	4'-0"
Hatch Block	#6	8	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

1-1-2020

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	DRAWN - R. BALLARD	REVISED -
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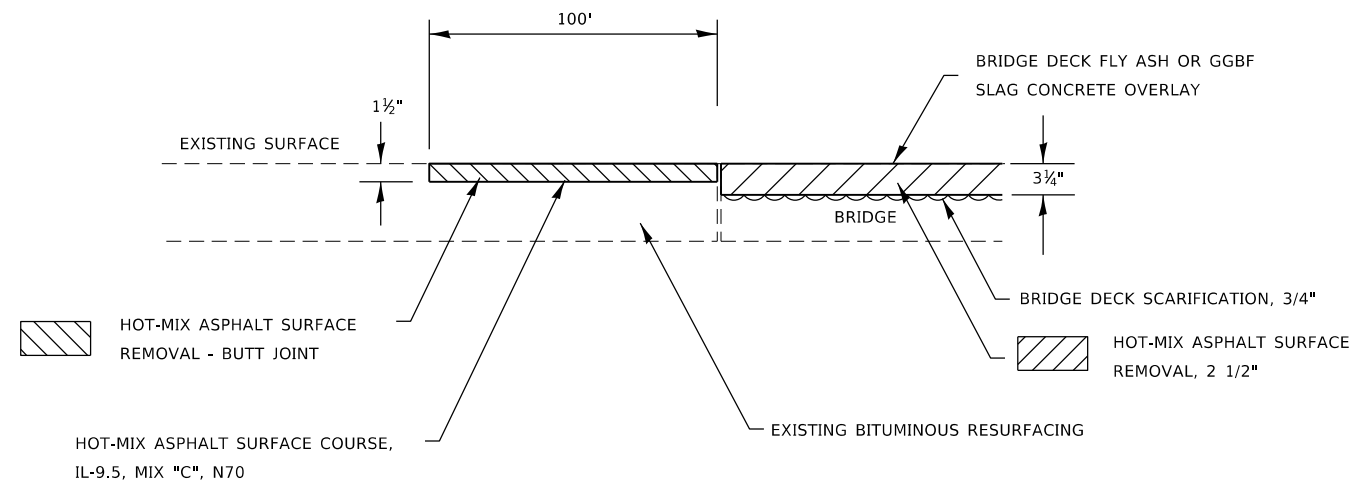
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 040-0017**

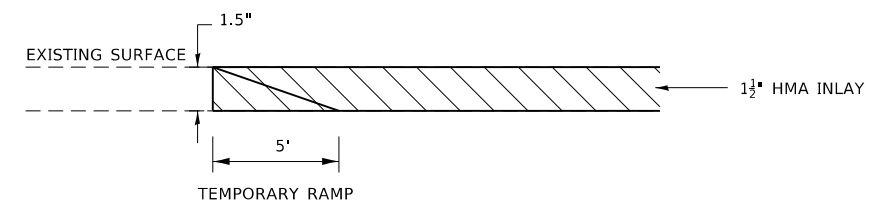
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS			FED. AID PROJECT	

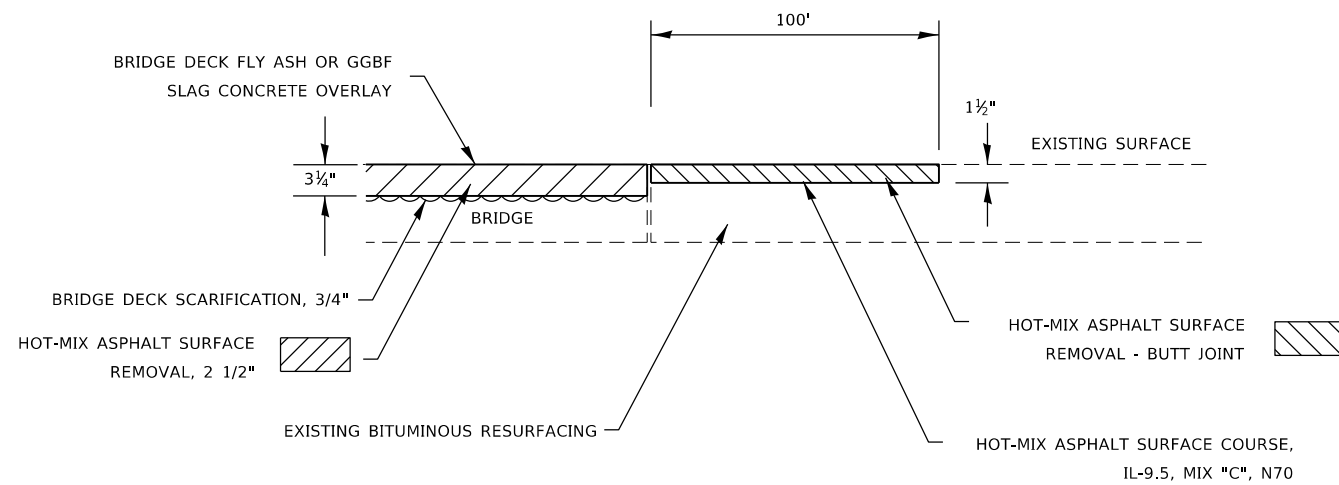
CONTRACT NO. 74993



BUTT JOINT DETAIL
STA 659+67 TO STA 660+67



TEMPORARY RAMP
STA 660+62 TO STA 660+67
STA 665+15 TO STA 665+20



BUTT JOINT DETAIL
STA 665+15 TO STA 666+15

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

* D7 BRIDGE REPAIRS 2021-6

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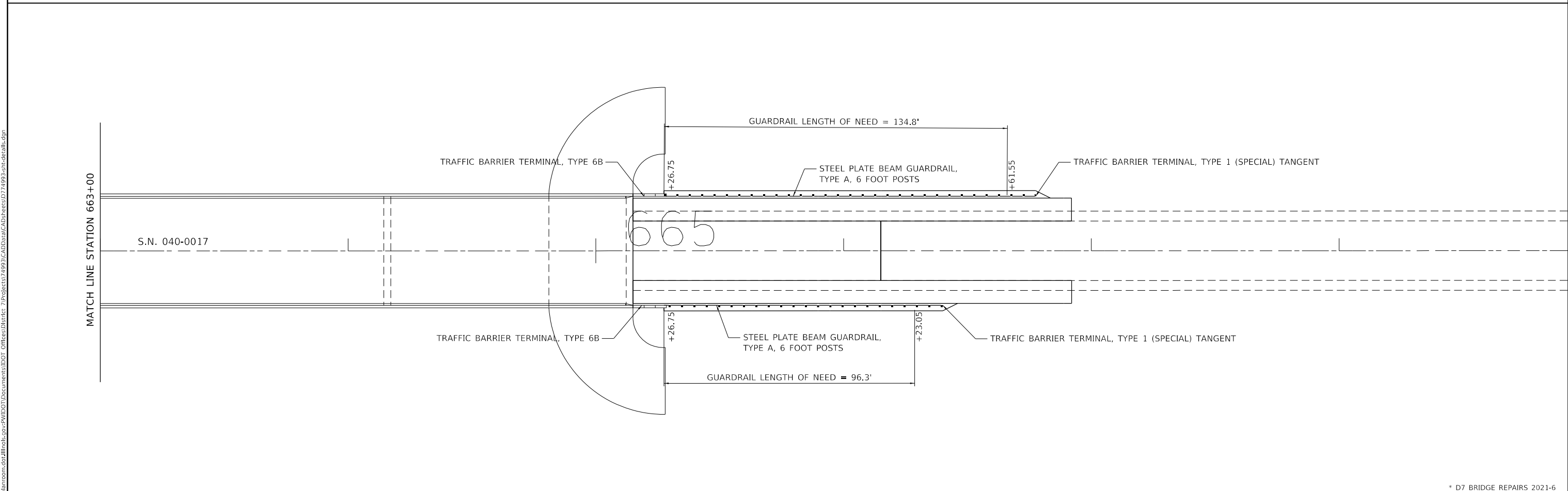
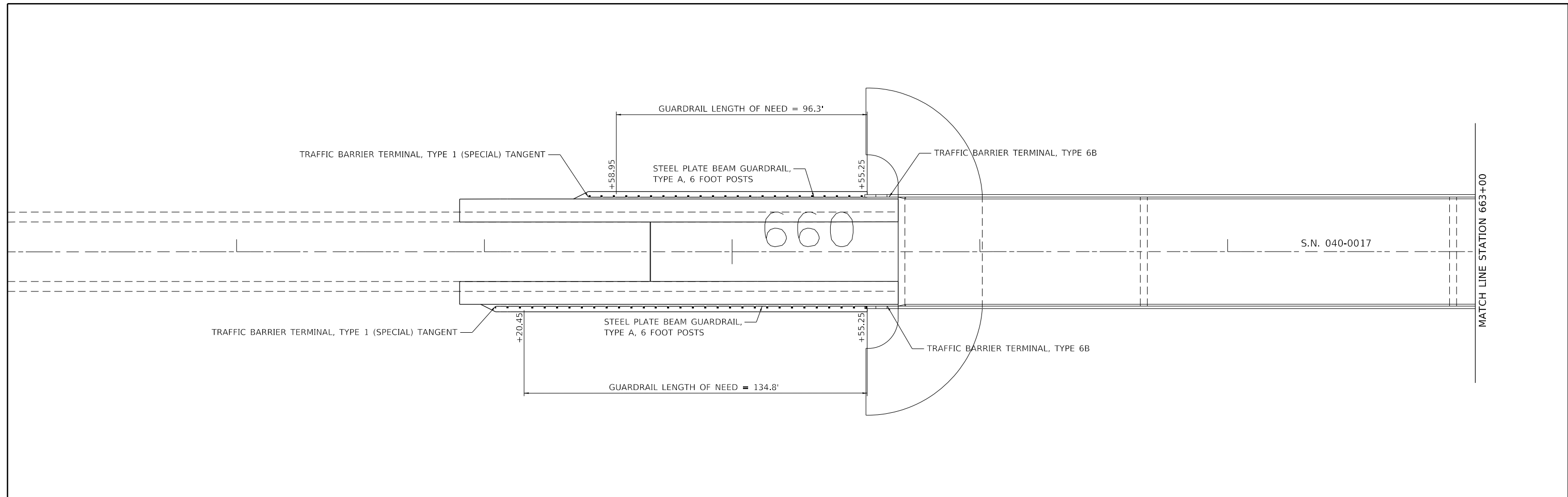
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT DETAILS	
SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	26
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

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* D7 BRIDGE REPAIRS 2021-6

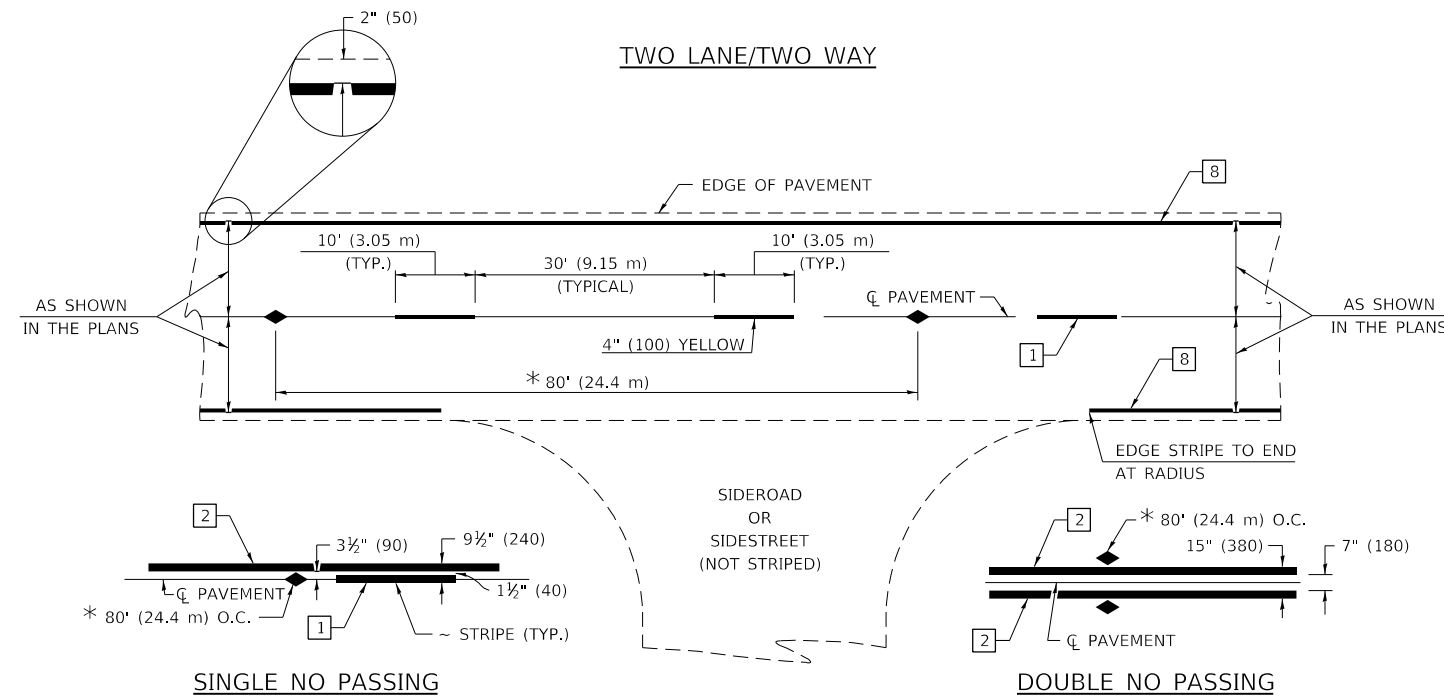
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GUARDRAIL DETAILS

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

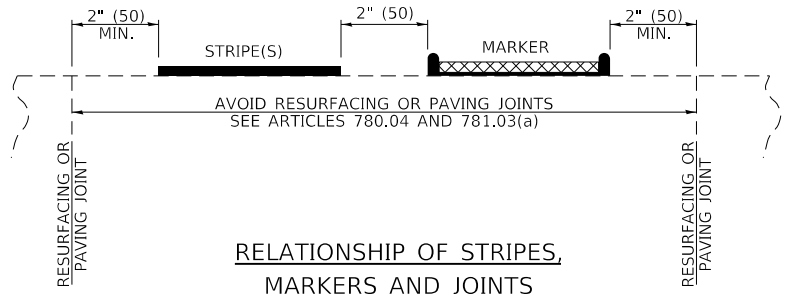
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	27
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

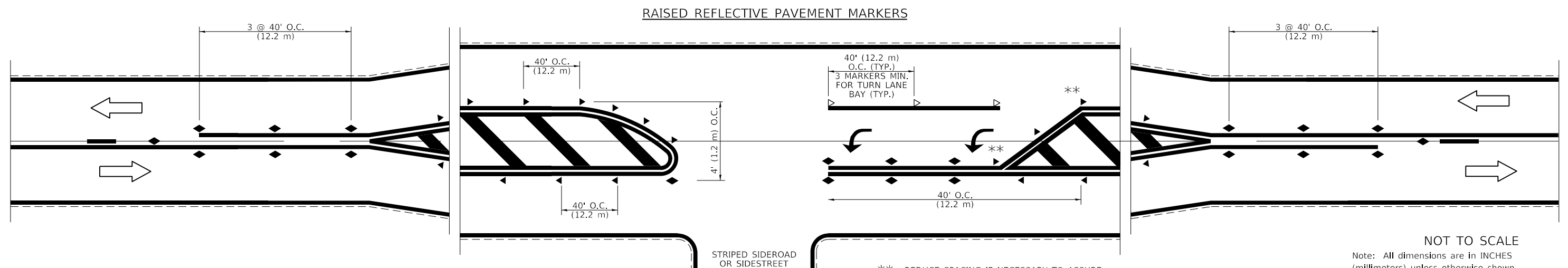
* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

* D7 BRIDGE REPAIRS 2021-6

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PROJECT: 74993
OFFICE: DISTRICT 7
DRAWN: JASPER
CHECKED: JASPER
DATE: 8/13/2020

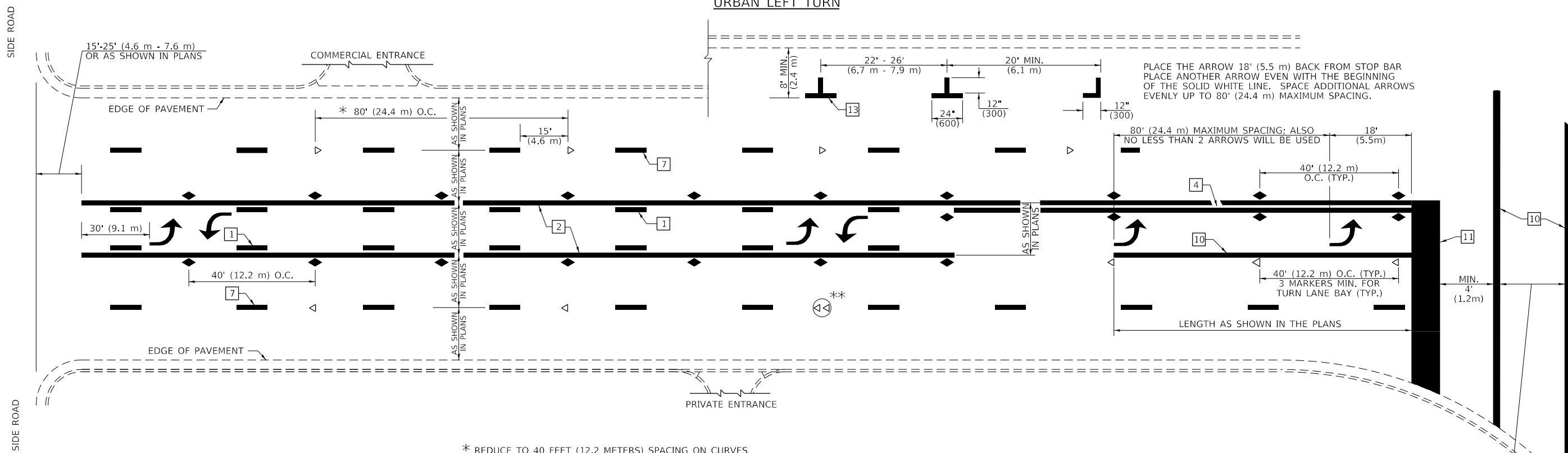
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL AND URBAN APPLICATIONS)
SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 7800001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	28
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

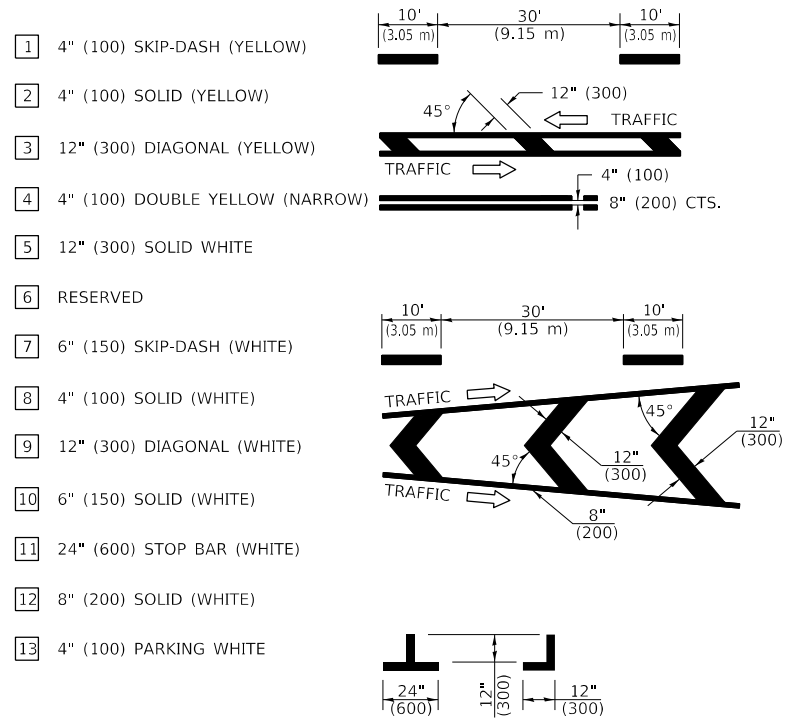
URBAN LEFT TURN



* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

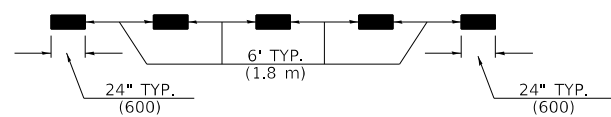
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

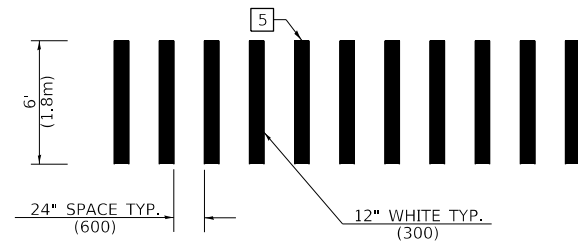


GENERAL NOTES

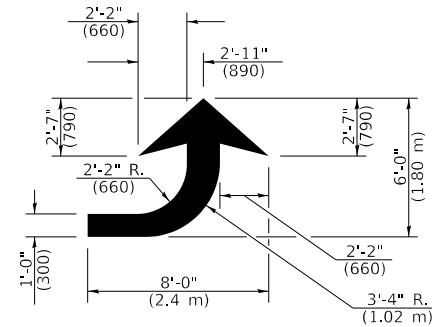
- TURN ARROW PAIRS SHALL BE PLACED AT 250'(75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
- THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
- USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
- LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



LANE LINE EXTENSIONS

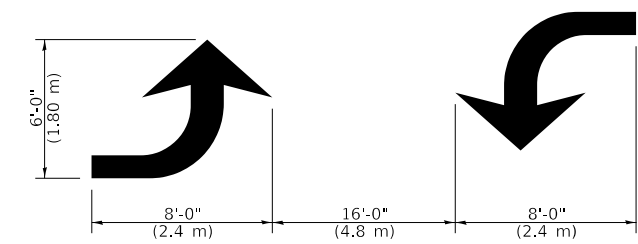


CROSSWALK DETAIL
(DECATUR CITY LIMITS ONLY)



LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



TYPICAL DOUBLE
TURN ARROWS (WHITE)

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

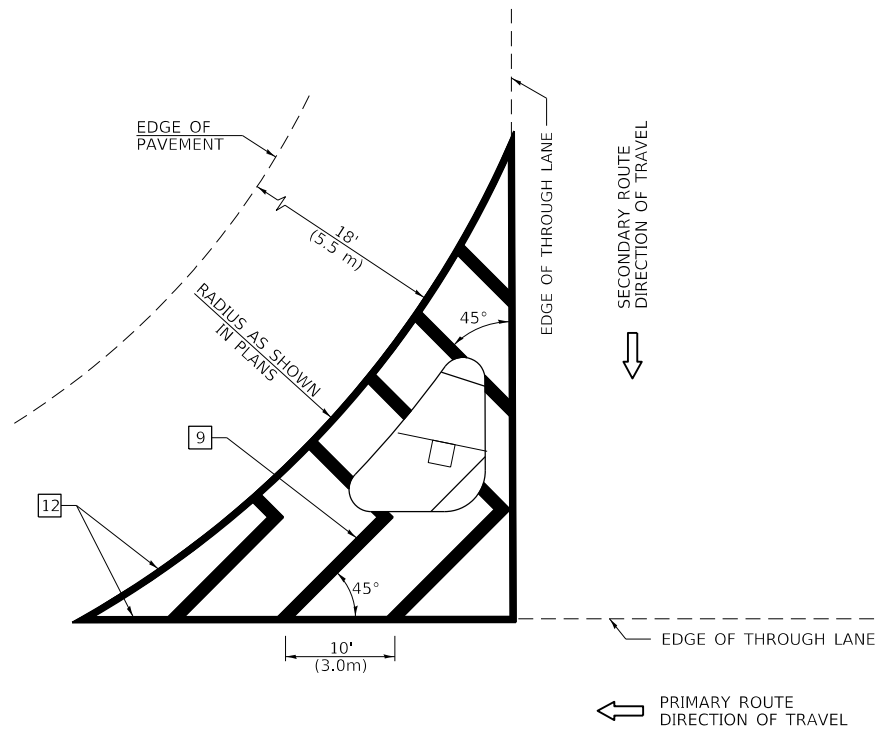
PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL AND URBAN APPLICATIONS)

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 7800001				
F.A.P. RTE. 781	SECTION *	COUNTY JASPER	TOTAL SHEETS 31	SHEET NO. 29
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

* D7 BRIDGE REPAIRS 2021-6

ISLAND

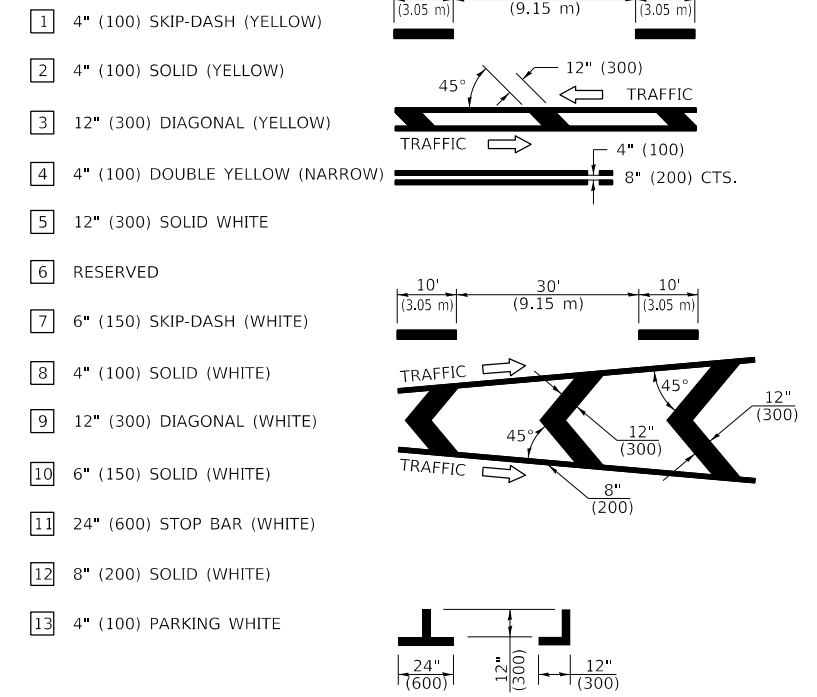


GENERAL NOTES

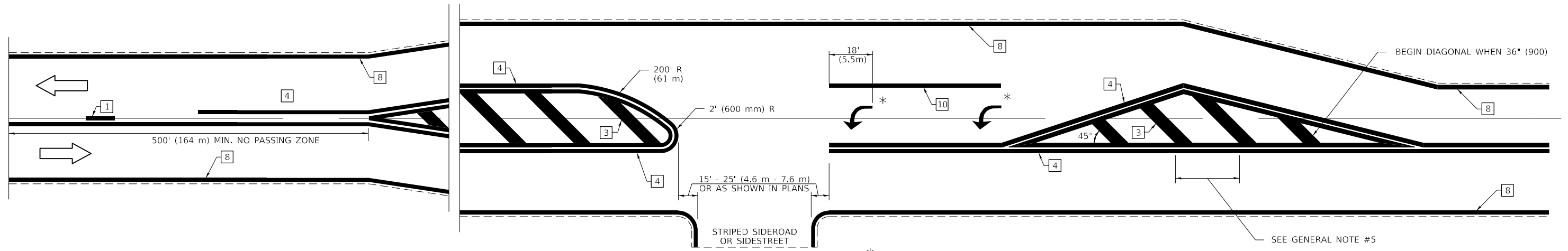
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

<30 MPH (<50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
>45 MPH (>75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

* D7 BRIDGE REPAIRS 2021-6

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL AND URBAN APPLICATIONS)

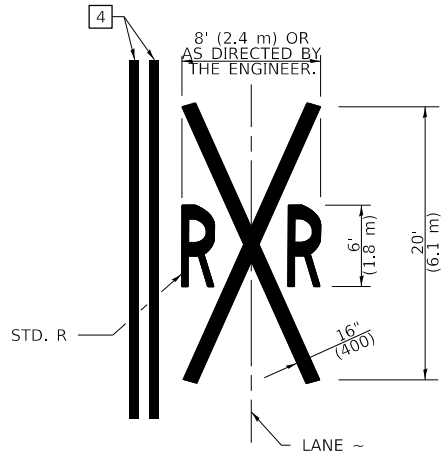
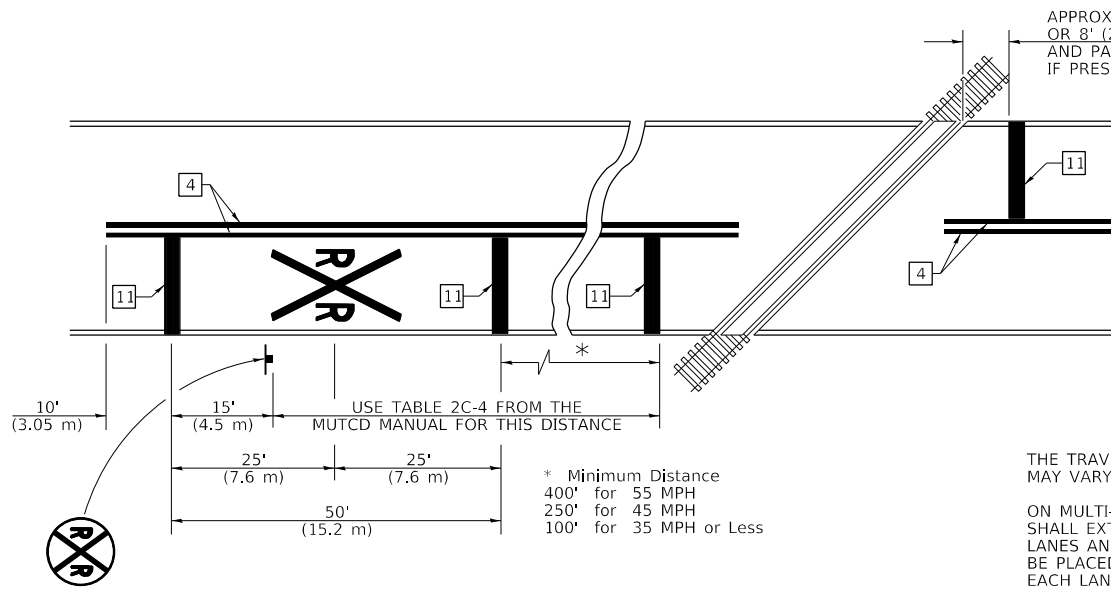
SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	30
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

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USER NAME = steffemk	DESIGNED -	REVISED -
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PLOT DATE = 8/13/2020	CHECKED -	REVISED -
	DATE -	REVISED -

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

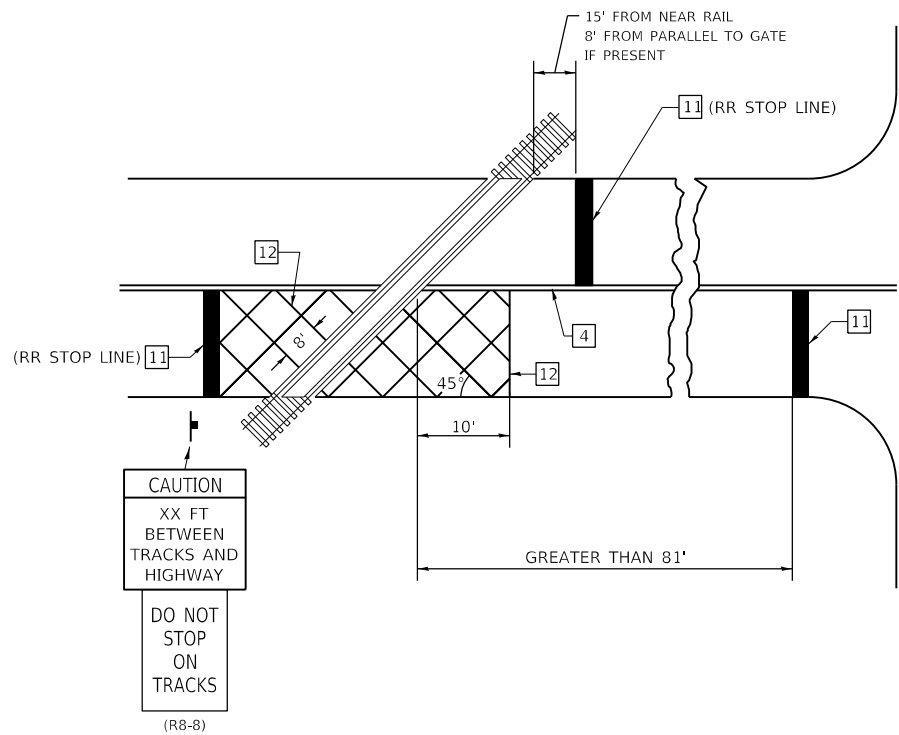
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

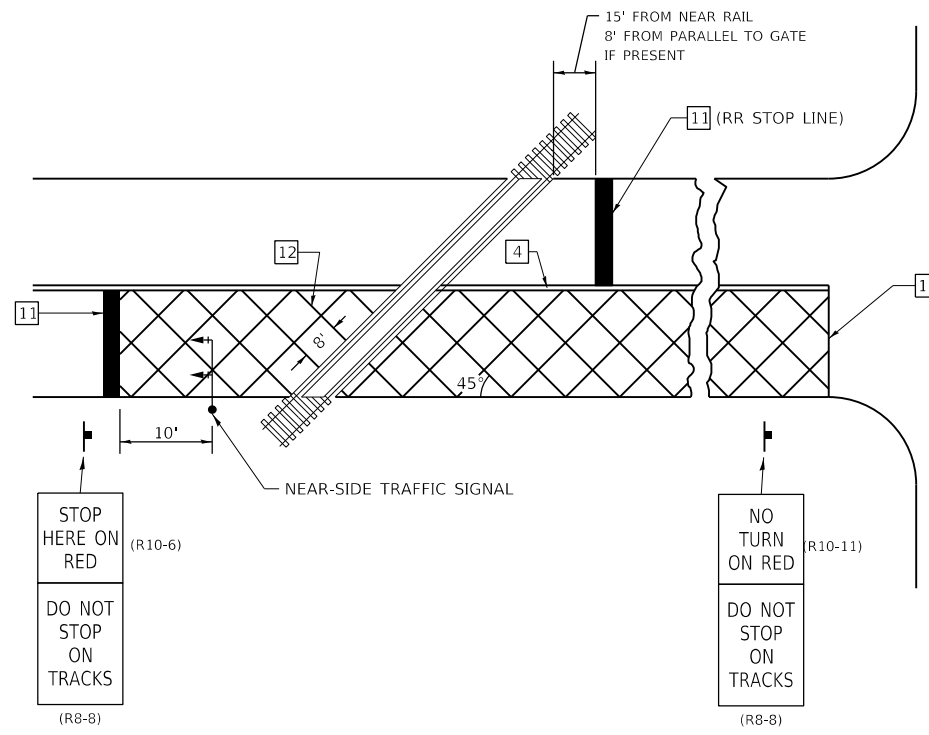
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 12" (300) SOLID WHITE
 - 6 RESERVED
 - 7 6" (150) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) PARKING WHITE
-

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

* D7 BRIDGE REPAIRS 2021-6

DISTRICT 7 DETAIL NO. 7800001

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL AND URBAN APPLICATIONS)

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 8/13/2020	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	*	JASPER	31	31
CONTRACT NO. 74993				
ILLINOIS FED. AID PROJECT				

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