

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(107Z) BDR-1	SANGAMON	24	1
		ILLINOIS	CONTRACT NO. 72M29	

**HIGHWAY CLASSIFICATION**

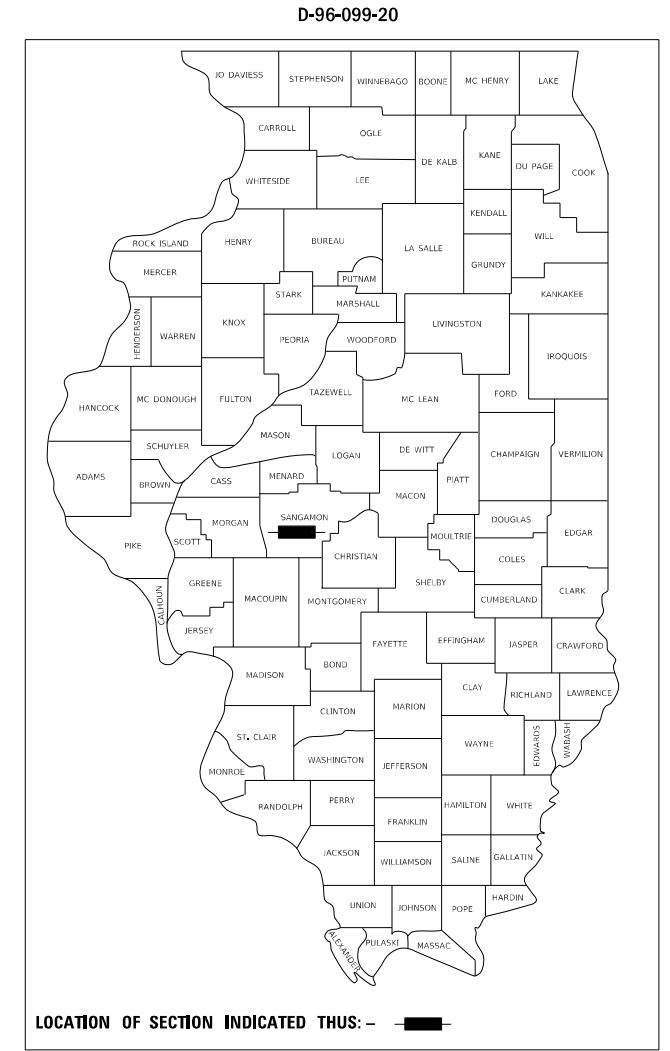
A.D.T. (2019)	12,032	PV = 95.71%
DESIGN SPEED	35	SU = 2.45%
POSTED SPEED	35	MU = 1.84%

CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

# PROPOSED HIGHWAY PLANS

FAP ROUTE 67 (IL 97)  
SECTION (107Z) BDR-1  
PROJECT NHPP-TX7N(254)  
BRIDGE DECK REPAIR  
SANGAMON COUNTY

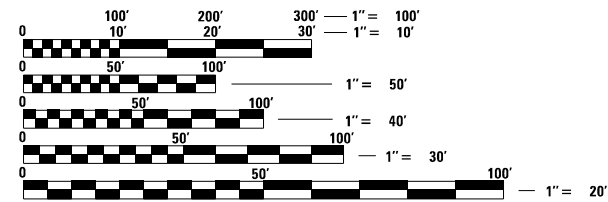
C-96-129-20



N  
LOCATION MAP  
NOT TO SCALE

PROJECT ENDS  
EB STA 43+22.7

EXISTING STRUCTURE  
SN 084-0183-STA 41+46.25  
BRIDGE DECK OVERLAY

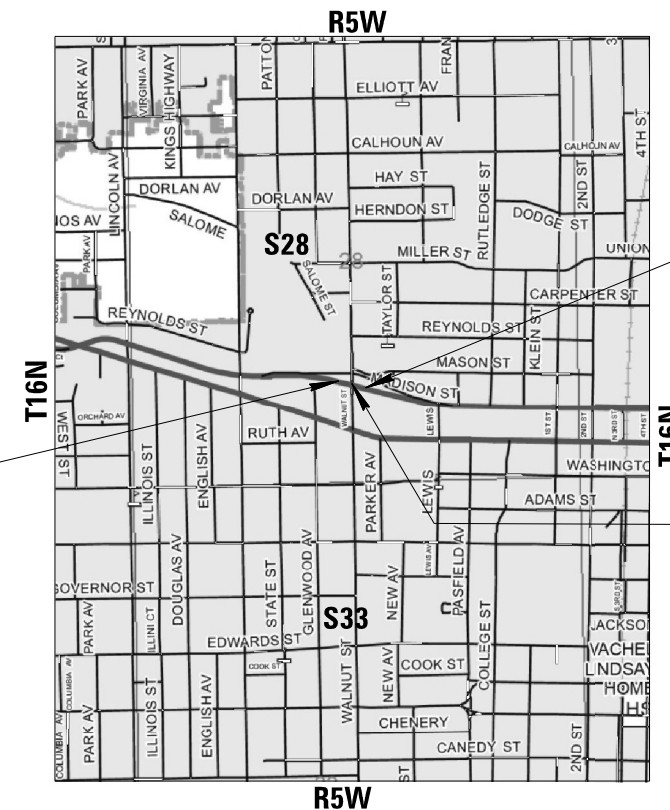


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JAY EDWARDS (217-785-0596)  
TEAM MANAGER: ROBERT MILES (618-447-4656)

CONTRACT NO. 72M29



PROJECT BEGINS  
EB STA 39+94.00

GROSS LENGTH = 332.27 FT. = 0.060 MILE  
NET LENGTH = 332.27 FT. = 0.060 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 15, 2022

*Jay P. Myers*  
REGIONAL ENGINEER

March 25, 2022  
*Stephen M. Smith*  
ENGINEER OF DESIGN AND SURVEILLANCE

March 25, 2022  
*Stephen M. Smith*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 2

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M)
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, SPEEDS LESS THAN 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-10	PAVEMENT JOINTS
442001-04	CLASS A PATCHES

**INDEX OF SHEETS**

1	COVER SHEET
2	INDEX OF SHEETS, LISTS OF STANDARDS, GENERAL NOTES AND COMMITMENTS
3-4	SUMMARY OF QUANTITIES
5	SCHEDULE OF QUANTITIES
6	ROADWAY TYPICAL SECTION
7	ROADWAY PLAN SHEET
8	STAGING TYPICAL SECTIONS
9-13	TRAFFIC CONTROL PLANS (5)
14-22	STRUCTURE PLANS (9)
23	EXPANSION JOINT REPLACEMENT DETAIL
24	EXISTING BRIDGE APPROACH PAVEMENT (SPECIAL) DETAIL

**GENERAL NOTES**

1 THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE

LOCATIONS:	IL 97
MIXTURE USE(S):	HMA SURF CSE
PG:	SBS PG 70-28
DESIGN AIR VOIDS	4.0% @ N70
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL-9.5
FRICTION AGGREGATE	MIX "D"
QUALITY MANAGEMENT	QC/QA
SUBLOT SIZE	N/A

- 2 CHANGEABLE MESSAGE SIGNS SHALL BE SET UP 7 DAYS PRIOR TO THE INSTALLATION OF THE TEMPORARY BARRIER WALL AND SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION.
- 3 SYNTHETIC FIBERS ARE NOT REQUIRED IN THE BRIDGE DECK MICROSILICA CONCRETE OVERLAY.
- 4 NUCLEAR GUAGES WILL BE USED FOR DENSITY VERIFICATION BY THE ENGINEER FOR QC/QA.
- 5 ANY FULL DEPTH PATCHES THAT ARE DISCOVERED SHALL BE COVERED WHEN WORKERS ARE NOT PRESENT.

**RATE TABLE**

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES.

BITUMINOUS MATERIALS (TACK COAT):	0.05 LBS/SQ FT (MILLING)
	0.025 LBS/SQ FT (HMA LIFTS)
HMA SURFACE MIX "D":	0.056 TONS/SQ YD

**COMMITMENTS**

NONE

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DISTRICT 6**

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EXAMINED February 8 20 22  
*[Signature]*  
ENGINEER OF OPERATIONS

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EXAMINED February 4 20 22  
*[Signature]*  
ENGINEER OF PROJECT IMPLEMENTATION

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EXAMINED February 4 20 22  
*[Signature]*  
ENGINEER OF PROGRAM DEVELOPMENT

REV. - MS

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	USER NAME = milesra	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HIGHWAY STANDARDS, INDEX OF SHEETS, GENERAL NOTES, RATE TABLE, &amp; COMMITMENTS</b>	F.A.P. RTE. 67	SECTION (107Z) BDR-1	COUNTY SANGAMON	TOTAL SHEETS 24	SHEET NO. 2
	PLOT SCALE = 40.0000 ' / in.	CHECKED - _____	REVISED - _____		SCALE: N/A	SHEET 1	OF 1 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 72M29
	PLOT DATE = 2/11/2022	DATE - _____	REVISED - _____					ILLINOIS	FED. AID PROJECT	

URBAN

URBAN

6-01458-0000  
80% FEDERAL  
20% STATE  
BRIDGE  
0059  
S.N. 084-0183

6-01458-0000  
80% FEDERAL  
20% STATE  
BRIDGE  
0059  
S.N. 084-0183

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	395	395
40600370	LONGITUDINAL JOINT SEALANT	FOOT	395	395
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	312	312
40600990	TEMPORARY RAMP	SQ YD	107	107
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	74	74
50102400	CONCRETE REMOVAL	CU YD	4.3	4.3
50157300	PROTECTIVE SHIELD	SQ YD	405	405
50300255	CONCRETE SUPERSTRUCTURE	CU YD	5.2	5.2
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	274	274
50300300	PROTECTIVE COAT	SQ YD	452	452
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	790	790
50800515	BAR SPLICERS	EACH	8	8
52000110	PREFORMED JOINT STRIP SEAL	FOOT	87	87
60260100	INLETS TO BE ADJUSTED	EACH	2	2

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	308	308
70400100	TEMPORARY CONCRETE BARRIER	FOOT	467	467
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	467	467
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1
*78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	82	82
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6
X4420557	CLASS A PATCHES, TYPE III, 10 INCH (SPECIAL)	SQ YD	112	112
X7010228	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601, SPECIAL	L SUM	1	1
*X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO.1	L SUM	1	1

\* SPECIALTY ITEM

REV. - MS

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PLOT DATE = 2/14/2022	DATE - _____	REVISIONS - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
FAP 67 (IL97 / MADISON ST)**

SCALE: N/A    SHEET 1 OF 2 SHEETS    STA. N/A    TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(107Z) BDR-1	SANGAMON	24	3
CONTRACT NO. 72M29				
ILLINOIS FED. AID PROJECT				

URBAN

				6-01458-0000
				80% FEDERAL 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0059 S.N. 084-0183
* Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
Z0010615	CLEANING EXISTING INLETS	EACH	2	2
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	432	432
Z0012166	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 3/4"	SQ YD	432	432
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5	5
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	388	388
Z0073346	SLEEPER SLAB	SQ YD	64	64

\* SPECIALTY ITEM

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	DRAWN - _____	REVISED - _____
PLOT SCALE = 40.0000 ' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 2/14/2022	DATE - _____	REVISED - _____

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**FAP 67 (IL97 / MADISON ST)**

SCALE: N/A      SHEET 2      OF 2      SHEETS      STA. N/A      TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(107Z) BDR-1	SANGAMON	24	4
			CONTRACT NO. 72M29	
		ILLINOIS	FED. AID PROJECT	

**GENERAL NOTES**

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

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.

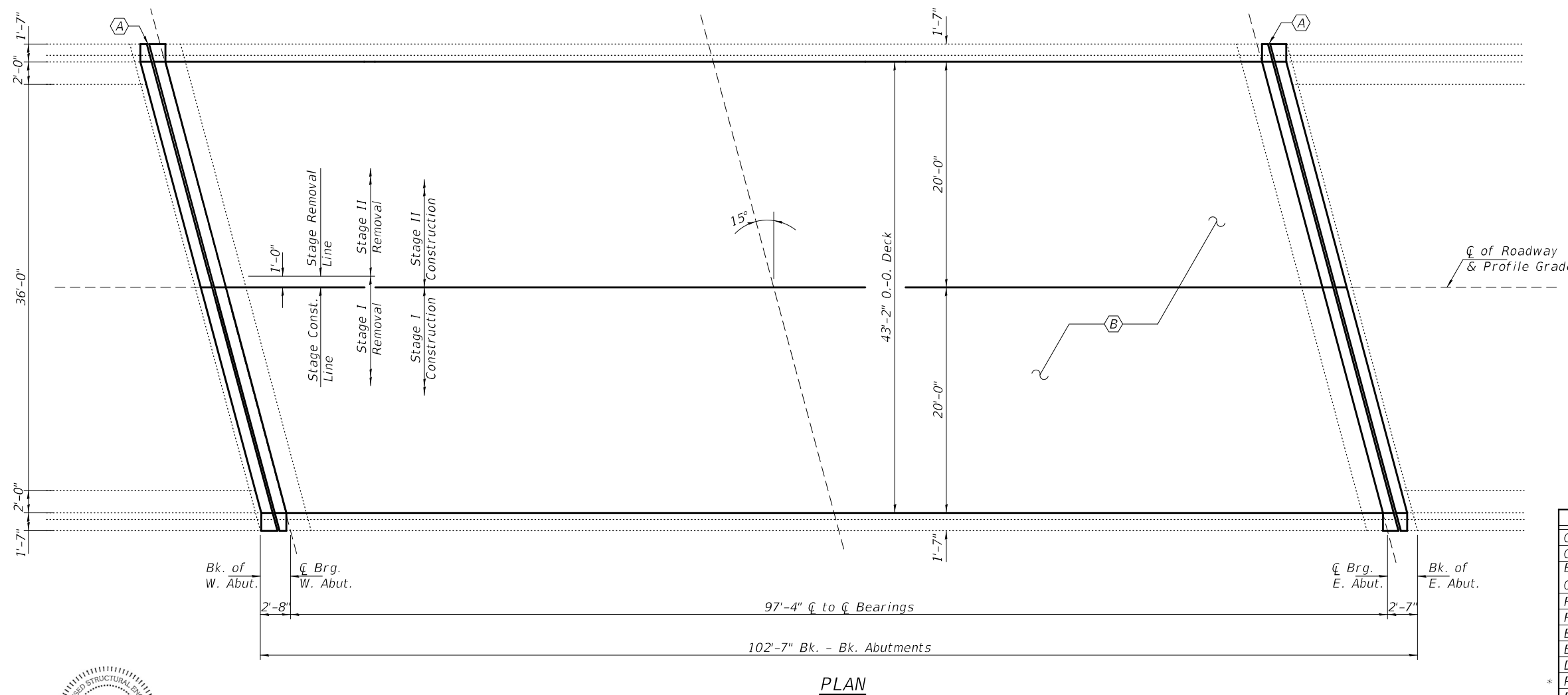
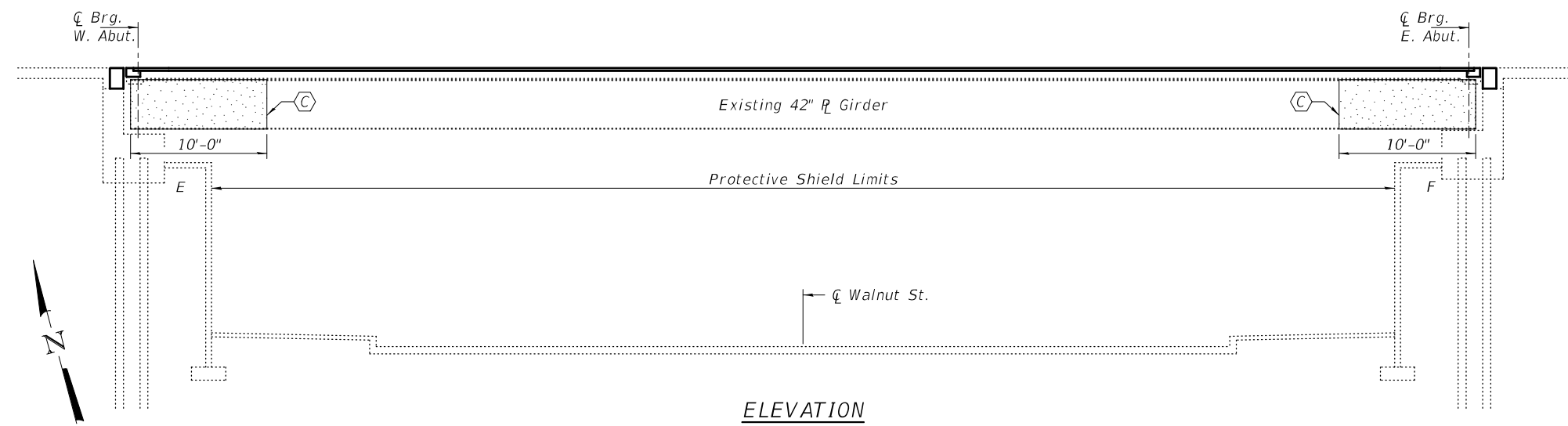
Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

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

Traffic will be maintained using stage construction.



**TOTAL BILL OF MATERIAL**

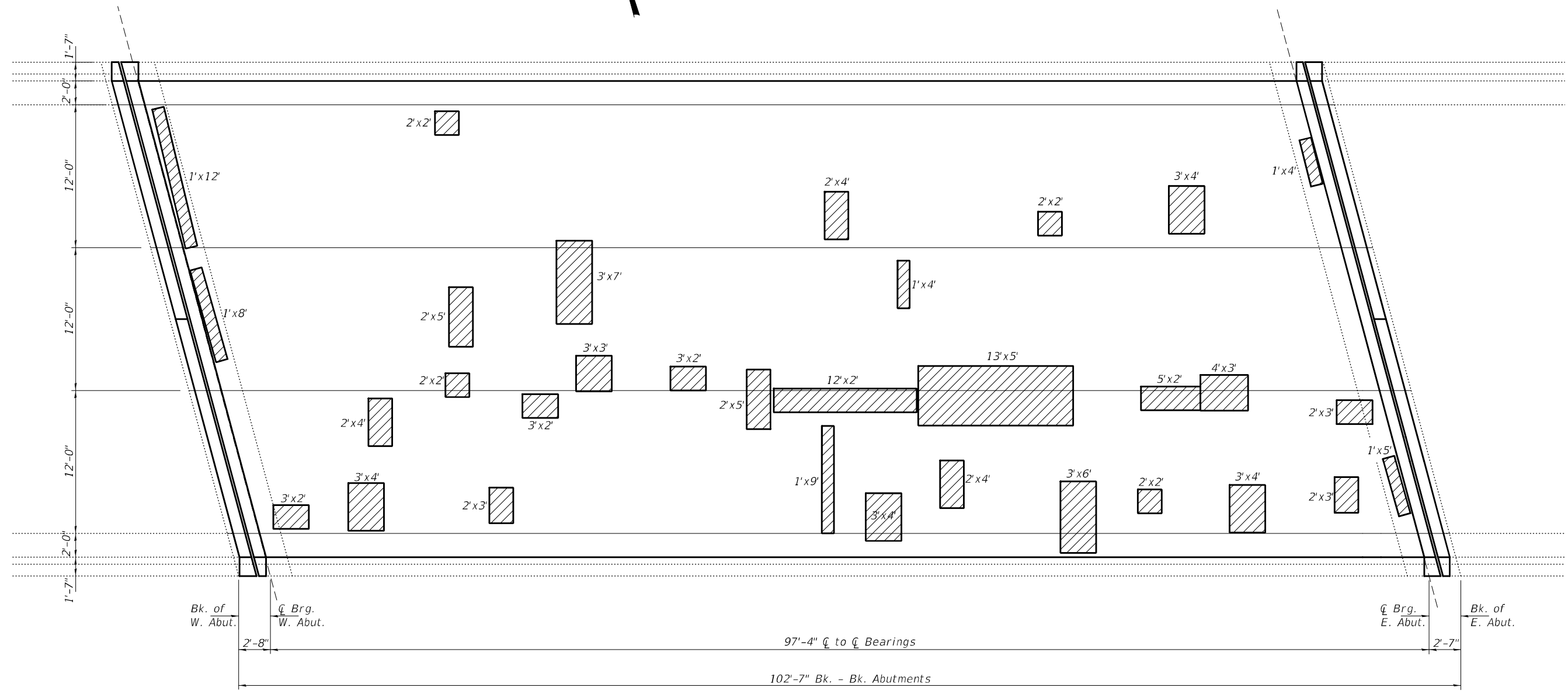
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	4.3
Concrete Superstructure	Cu. Yd.	5.2
Bridge Deck Microsilica Concrete Overlay 2 3/4"	Sq. Yd.	432
Preformed Joint Strip Seal	Foot	87
Reinforcement Bars, Epoxy Coated	Pound	790
Bar Splicers	Each	8
Bridge Deck Scarification 3/4"	Sq. Yd.	432
Diamond Grinding (Bridge Section)	Sq. Yd.	388
* Protective Coat	Sq. Yd.	452
Protective Shield	Sq. Yd.	405
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	274
Cleaning and Painting Steel Bridge No. 1	L. Sum	1
Containment and Disposal of Non Lead Paint Cleaning Residues No. 1	L. Sum	1
Deck Slab Repair (Full Depth Type II)	Sq. Yd.	5

\* Apply to new concrete only.

- (A) - Remove existing Neoprene Joints and install new Preformed Joint Strip Seal.
- (B) - 3/4" Bridge Deck Scarification, 2 3/4" Microsilica Concrete Overlay & 1/4" Diamond Grinding
- (C) - Paint 10' of all Beam Ends.



EXPIRES 11-30-2022



PLAN

Deck Slab Repair (Partial Depth)

**BILL OF MATERIAL**

Item	Unit	Total
* Deck Slab Repair (Full Depth Type II)	Sq. Yd.	5

\* No Full Depth patches anticipated. Nominal value included.

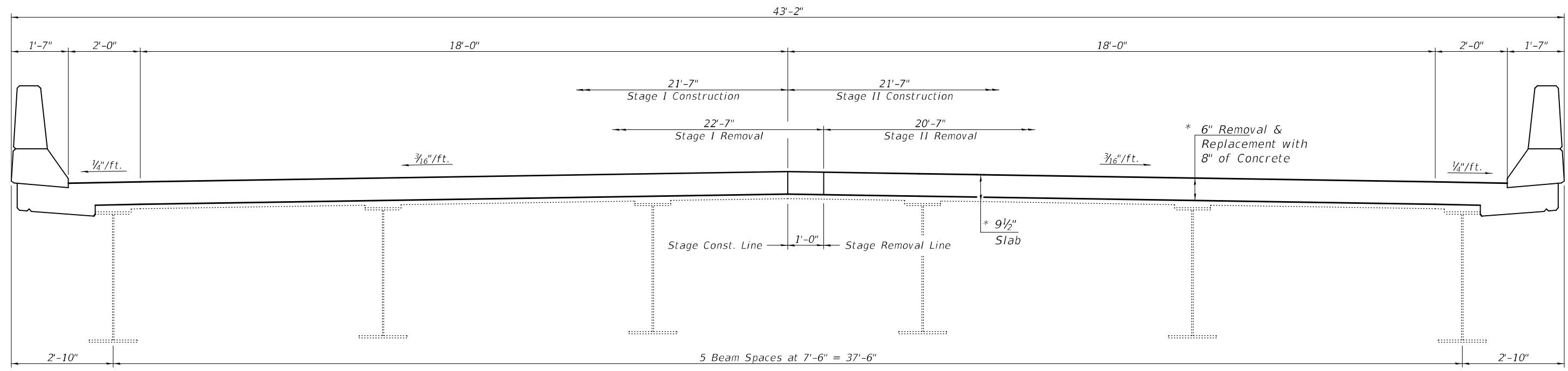
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CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Venkat Ramana Reddy	PASSED -	REVISED -
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR DETAILS  
084 - 0183**

SHEET NO. 2 OF 9 SHEETS

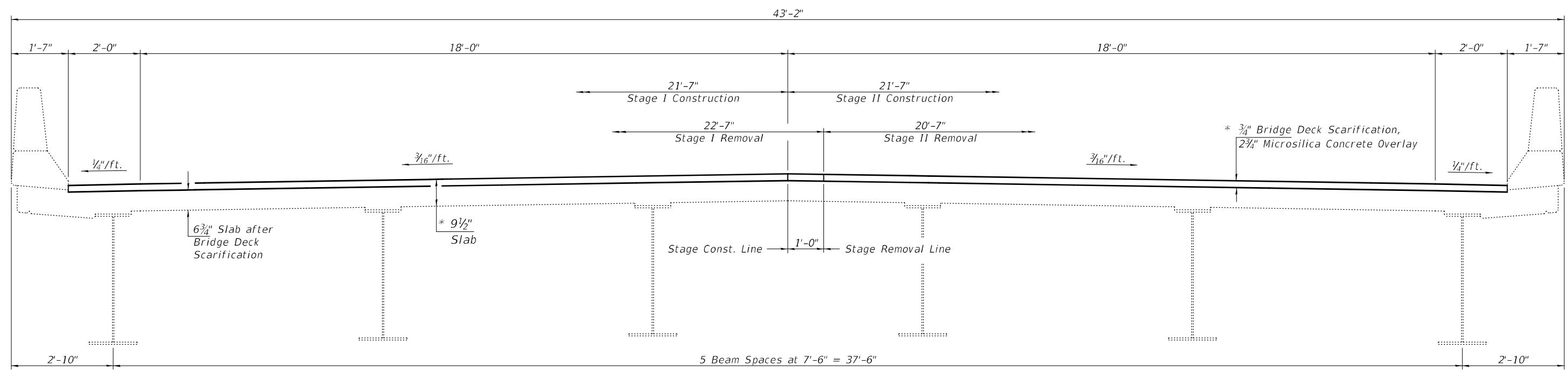
F.A.P. RTE. 67	SECTION (107Z) BDR-1	COUNTY SANGAMON	TOTAL SHEETS 24	SHEET NO. 6
CONTRACT NO. 72M29			ILLINOIS FED. AID PROJECT	



**CROSS SECTION AT ABUTMENTS**

(Looking West)

\* Prior to 1/4" Diamond Grinding



**CROSS SECTION AT MID SPAN**

(Looking West)

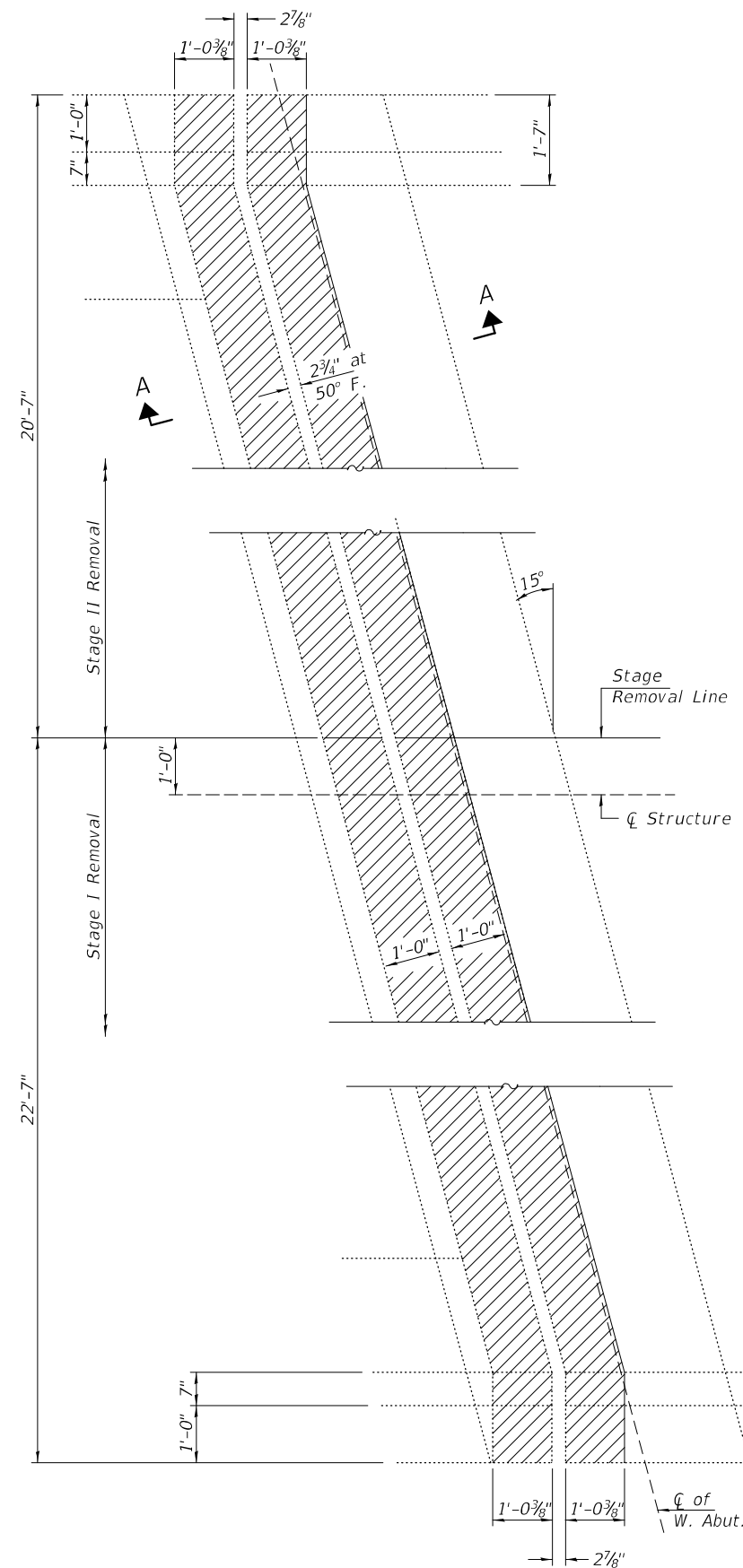
DESIGNED - ATH	EXAMINED - <i>Timothy A. [Signature]</i>	DATE - MARCH 16, 2022
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Venkat Ramana Reddy	PASSED - <i>James F. [Signature]</i>	REVISED -
CHECKED - ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

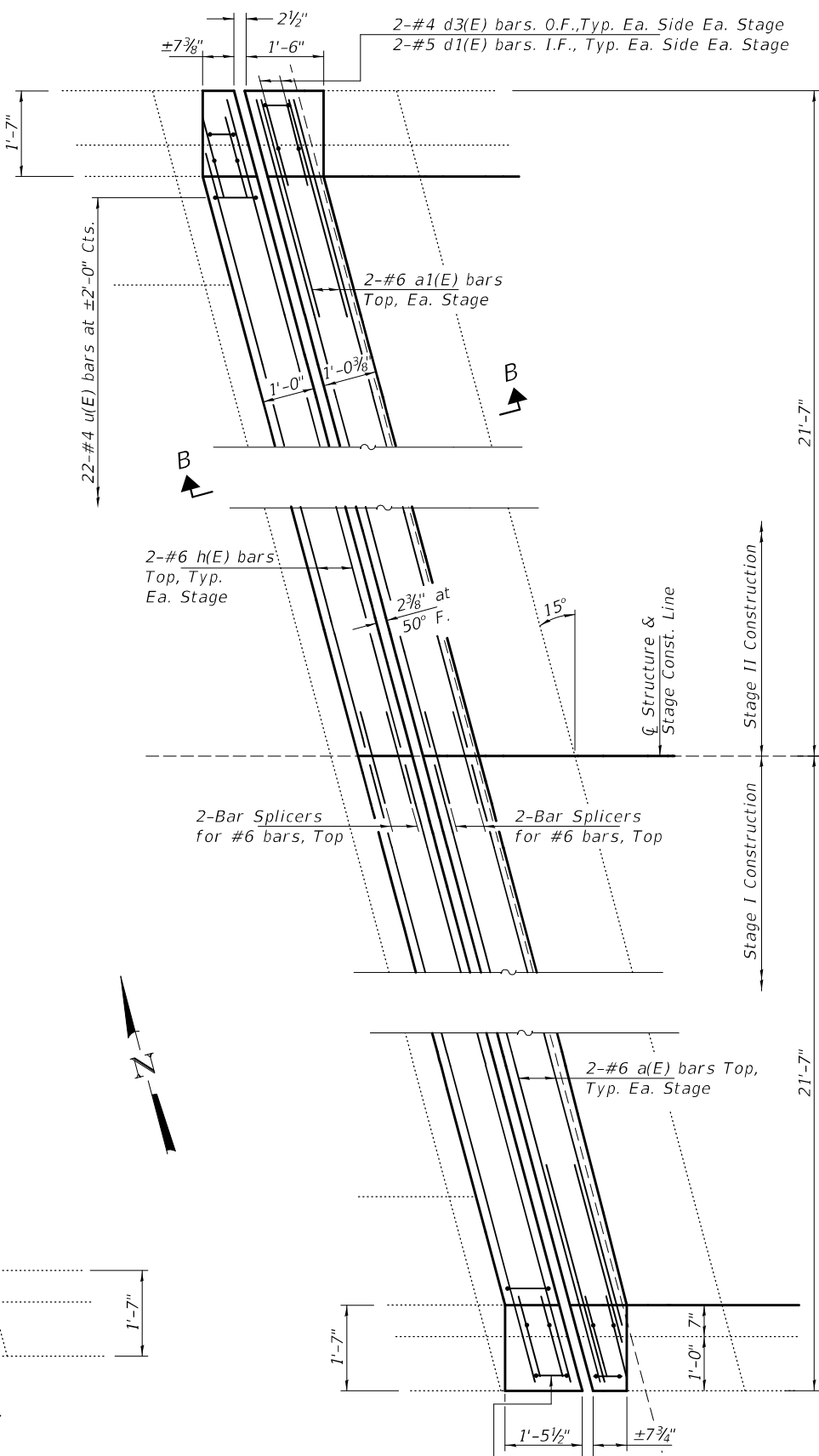
**CROSS SECTIONS & STAGING DETAILS  
084 - 0183**

SHEET NO. 3 OF 9 SHEETS

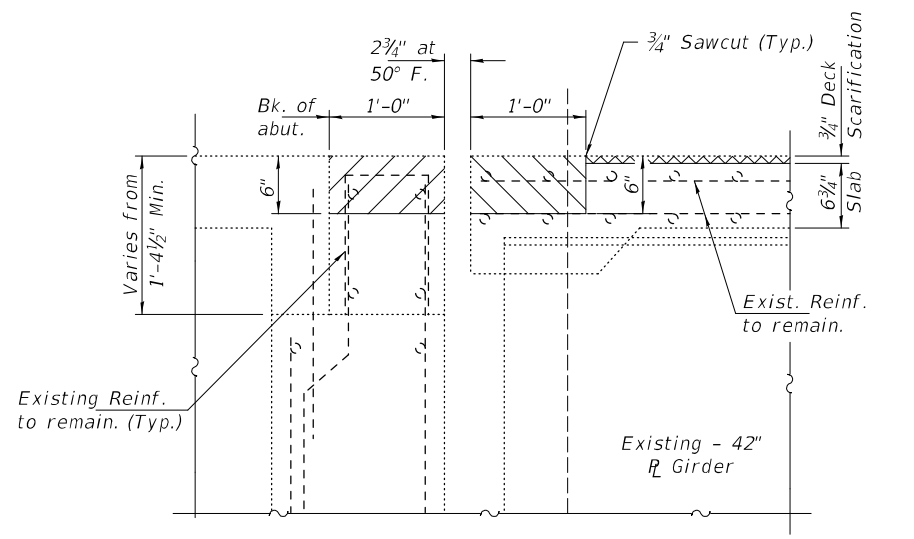
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67	(107Z) BDR-1	SANGAMON	24	7
CONTRACT NO. 72M29				
ILLINOIS FED. AID PROJECT				



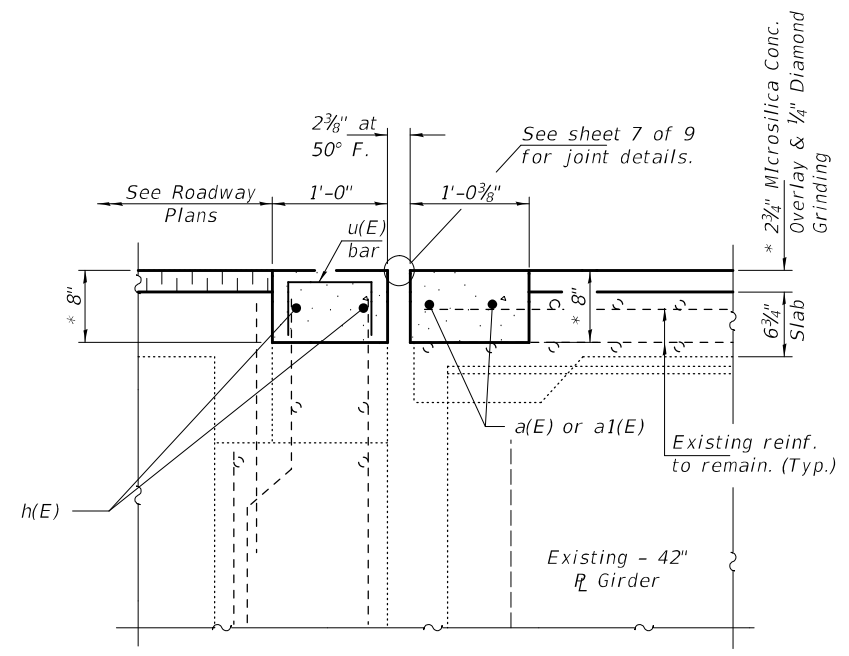
**REMOVAL PLAN**  
(West Abutment)



**REPLACEMENT PLAN**  
(West Abutment)



**SECTION A-A**



**SECTION B-B**

\* Prior to 1/4" Grinding

Note:  
See Sheet 6 of 9 for Reinforcement and Parapet Details.

DESIGNED - ATH  
CHECKED - SMR  
DRAWN - Venkat Ramana Reddy  
CHECKED - ATH SMR

EXAMINED  
PASSED  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 16, 2022  
REVISED -  
REVISED -

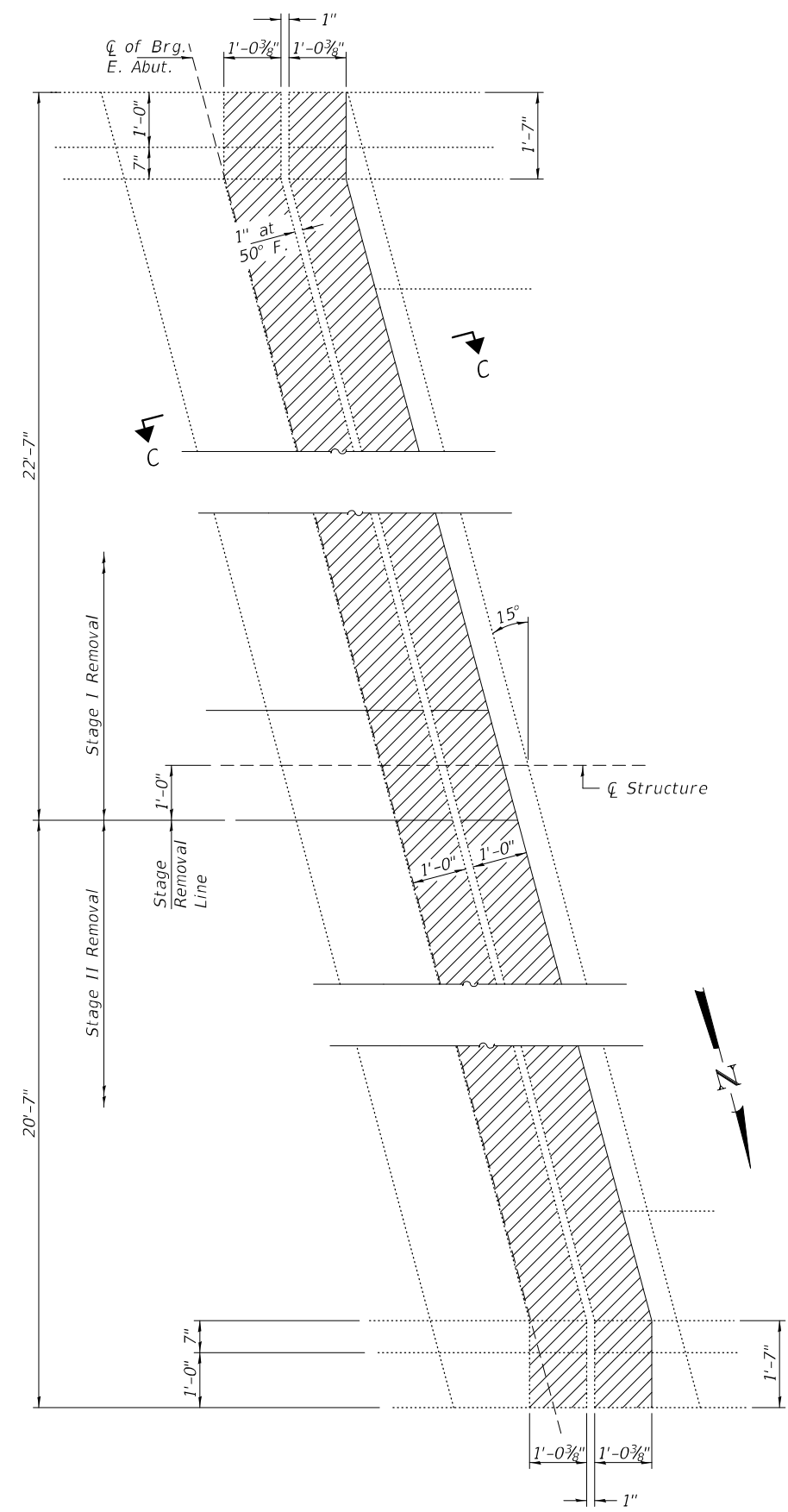
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL & REPLACEMENT DETAILS - WEST ABUTMENT  
084 - 0183

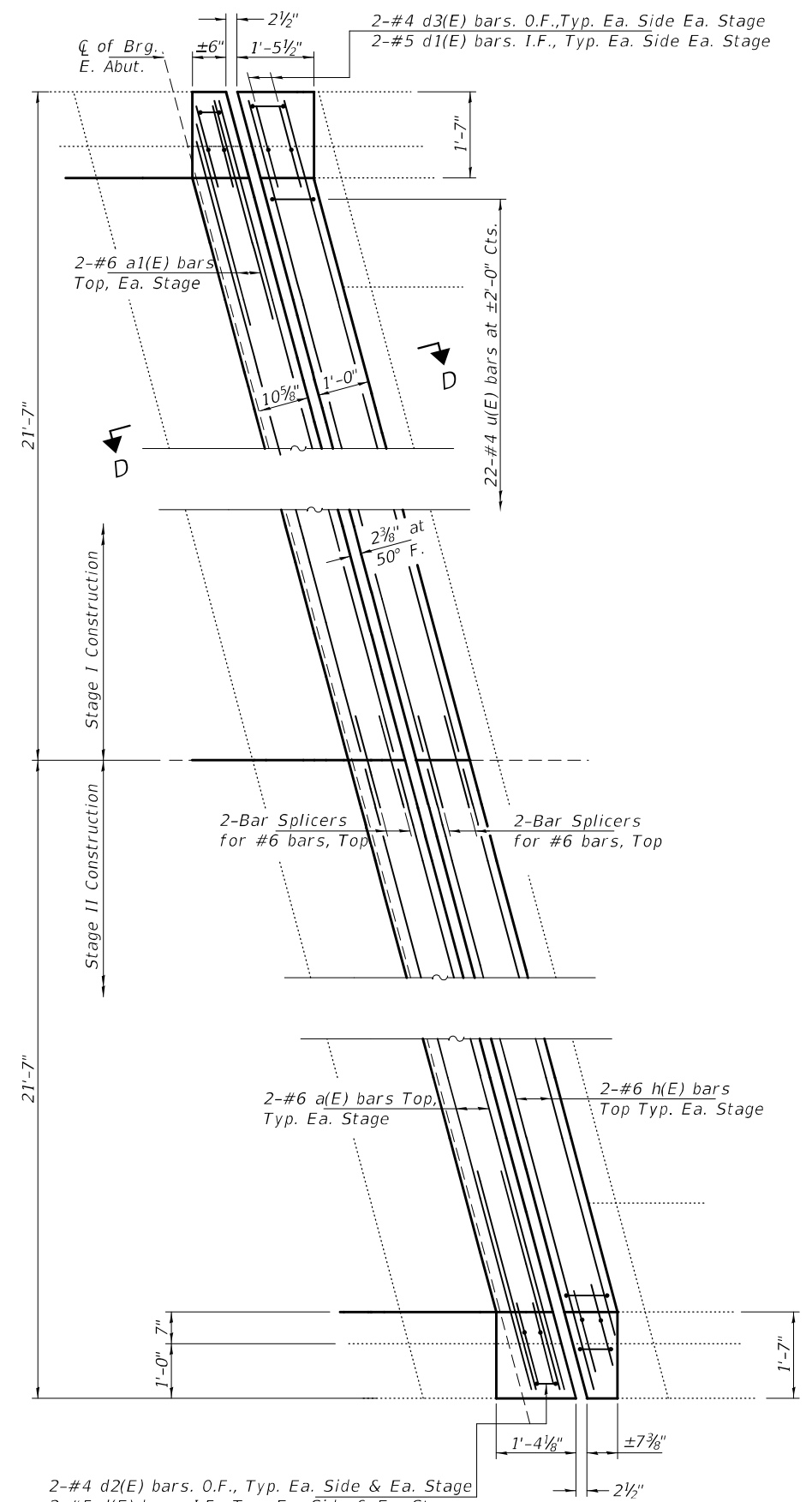
SHEET NO. 4 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(107Z) BDR-1	SANGAMON	24	8
CONTRACT NO. 72M29				
ILLINOIS FED. AID PROJECT				

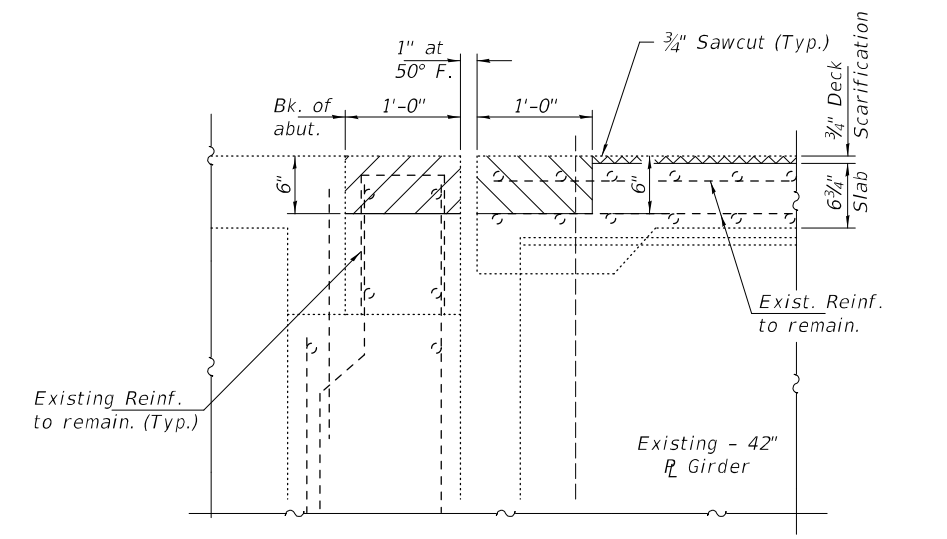




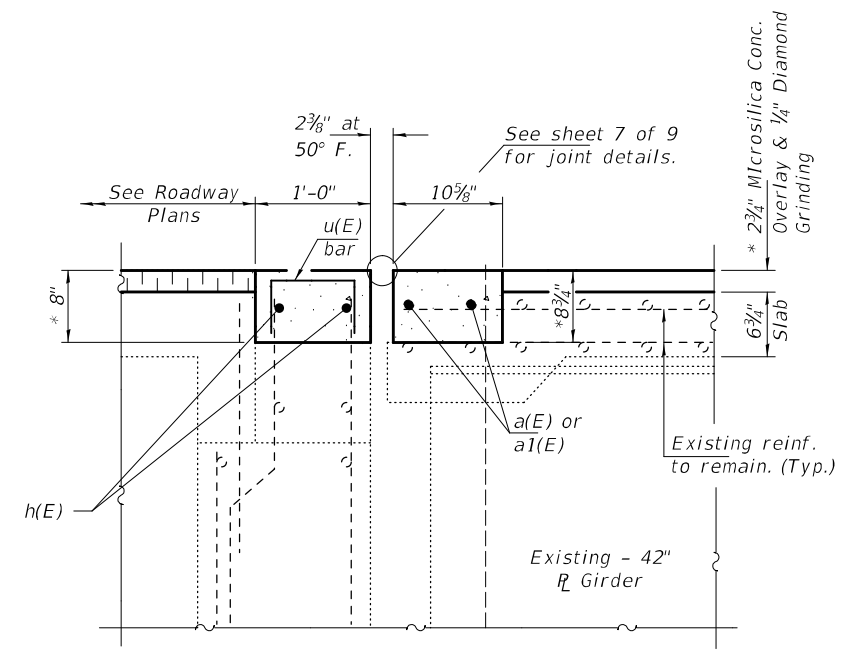
**REMOVAL PLAN**  
(East Abutment)



**REPLACEMENT PLAN**  
(East Abutment)



**SECTION C-C**

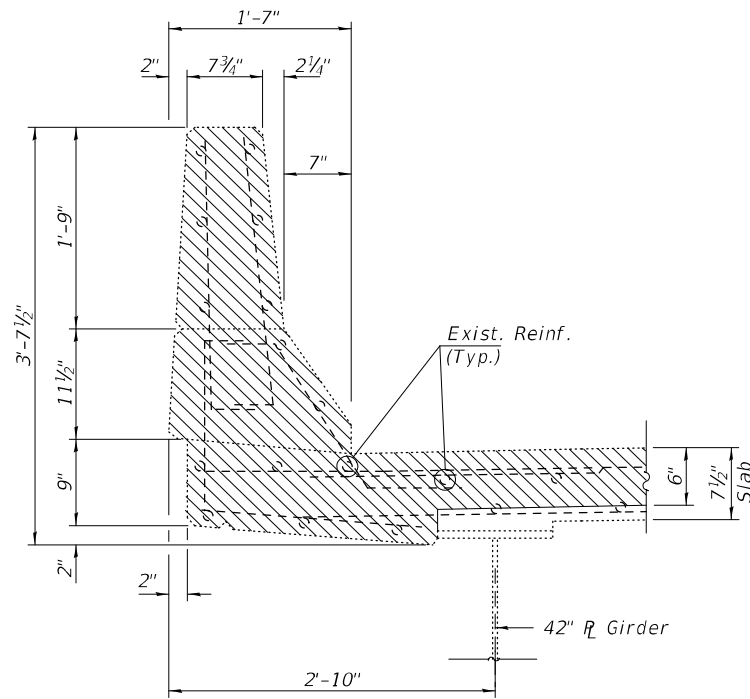


**SECTION D-D**

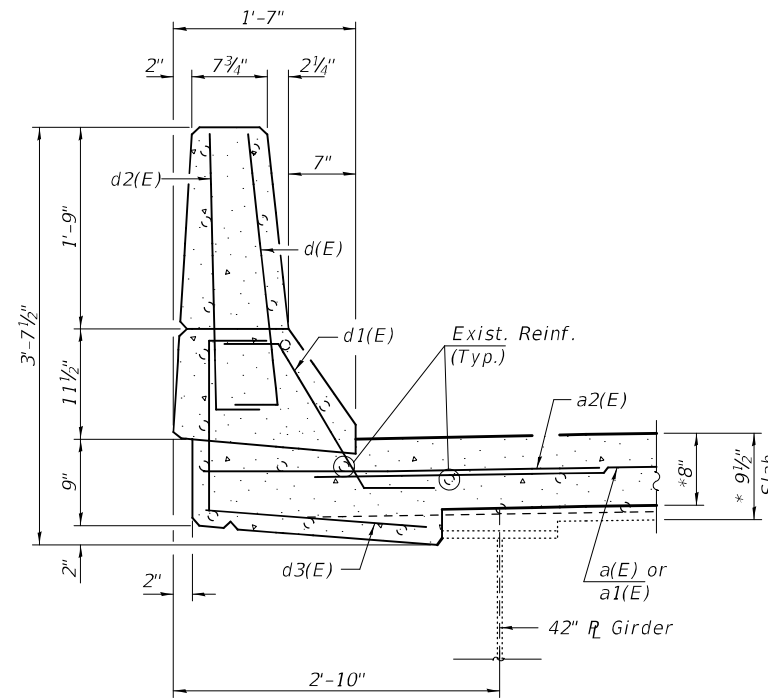
\* Prior to 1/4" Grinding

Note:  
See Sheet 6 of 9 for Reinforcement and Parapet Details.

DESIGNED - ATH	EXAMINED - <i>Timothy A. Smith</i>	DATE - MARCH 16, 2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REMOVAL & REPLACEMENT DETAILS - EAST ABUTMENT 084 - 0183	F.A.P. RTE. 67	SECTION (107Z) BDR-1	COUNTY SANGAMON	TOTAL SHEETS 24	SHEET NO. 9
CHECKED - SMR	PASSED - <i>James F. Smith</i>	REVISED -			SHEET NO. 5 OF 9 SHEETS		CONTRACT NO. 72M29		
DRAWN - Venkat Ramana Reddy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	ILLINOIS		FED. AID PROJECT				
CHECKED - ATH	SMR								



**REMOVAL DETAILS**



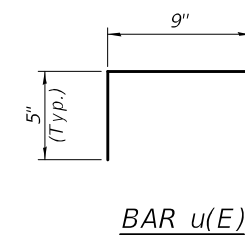
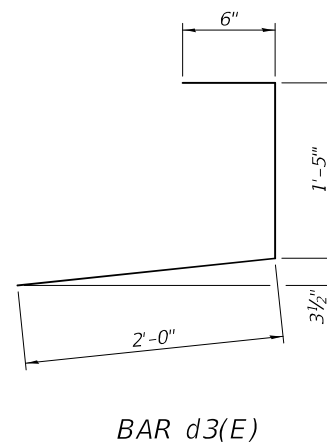
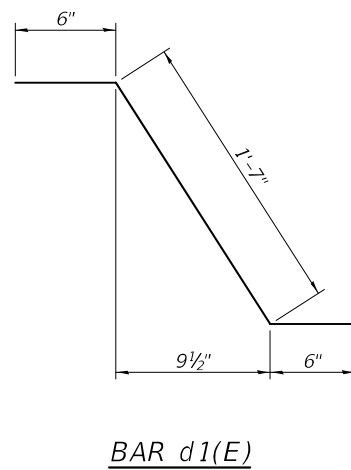
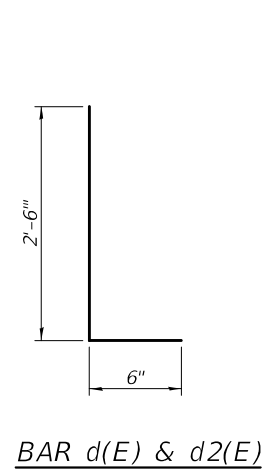
**REPLACEMENT DETAILS**

\* Prior to 1/4" Grinding

**SECTION THRU BRIDGE PARAPET AT BOTH ABUTMENTS**

Concrete Replacement

Concrete Replacement



**BILL OF MATERIAL  
(TWO ABUTMENTS)**

Bar	No.	Size	Length	Shape
a(E)	8	#6	21'-10"	—
a1(E)	8	#6	4'-0"	—
d(E)	16	#5	3'-0"	L
d1(E)	16	#5	2'-7"	L
d2(E)	16	#4	3'-0"	L
d3(E)	16	#4	3'-11"	L
h(E)	8	#6	22'-0"	—
u(E)	44	#4	1'-7"	U
Concrete Removal			Cu. Yd.	4.3
Concrete Superstructure			Cu. Yd.	5.2
Protective Coat			Sq. Yd.	452
Bar Splicers			Each	8
Reinforcement Bars, Epoxy Coated			Pound	790

DESIGNED - ATH  
 CHECKED - SMR  
 DRAWN - Venkat Ramana Reddy  
 CHECKED - ATH

EXAMINED   
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED   
 ENGINEER OF BRIDGES AND STRUCTURES

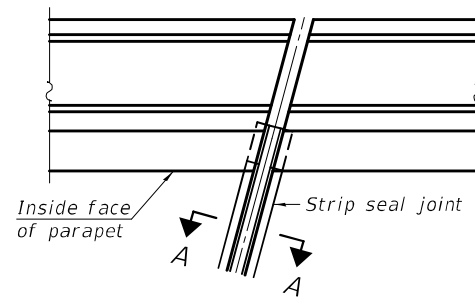
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 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

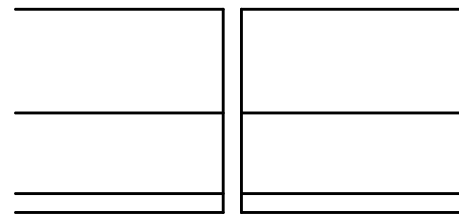
**JOINT REMOVAL & REPLACEMENT DETAILS - WEST ABUTMENT  
 084 - 0183**

SHEET NO. 6 OF 9 SHEETS

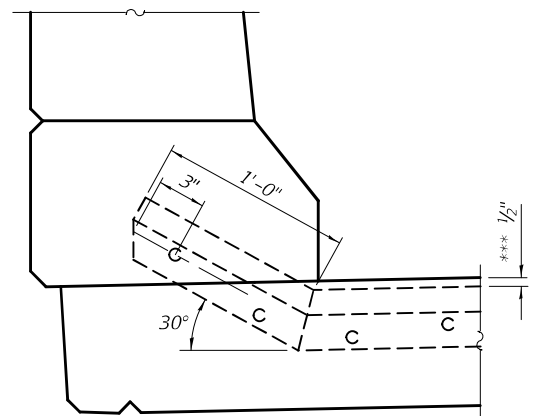
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(107Z) BDR-1	SANGAMON	24	10
CONTRACT NO. 72M29				
ILLINOIS FED. AID PROJECT				



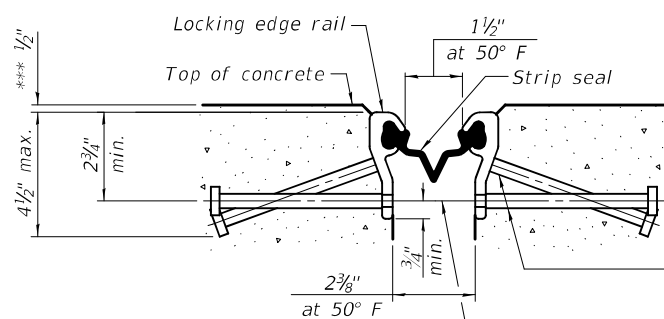
FOR SKEWS  $\leq 30^\circ$   
**PLAN AT PARAPET**



**ELEVATION AT PARAPET**

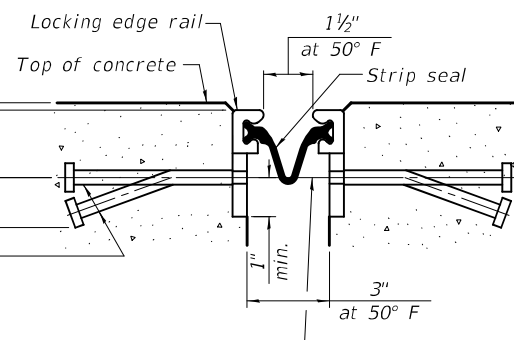


**PARAPET ELEVATION AT ABUTMENTS**  
 (Skews  $\leq 30^\circ$ )



**SHOWING ROLLED RAIL JOINT**

\*  $\frac{5}{8}$ "  $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 $\frac{3}{8}$ "  $\phi$  threaded rods in  $\frac{1}{16}$ "  $\phi$  holes at  $\pm 4$ -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.

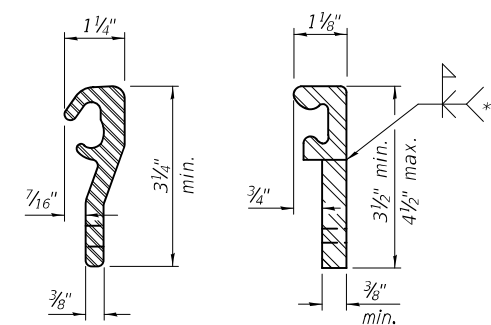


**SHOWING WELDED RAIL JOINT**

**SECTION A-A**

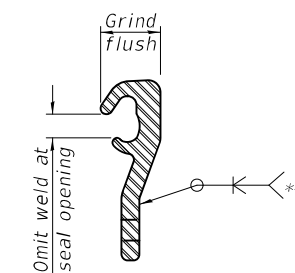
\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

\*\*\*Prior to  $\frac{1}{4}$ " Grinding



**LOCKING EDGE RAILS**  
 ROLLED (EXTRUDED) RAIL      WELDED RAIL

\*\* 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	87

EJ-SS1 LT30/REPS

2-25-20

DESIGNED - ATH  
 CHECKED - SMR  
 DRAWN - Venkat Ramana Reddy  
 CHECKED - ATH

EXAMINED  
 PASSED

Timothy A. [Signature]  
 ENGINEER OF STRUCTURAL SERVICES  
 Jayme F. [Signature]  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 16, 2022

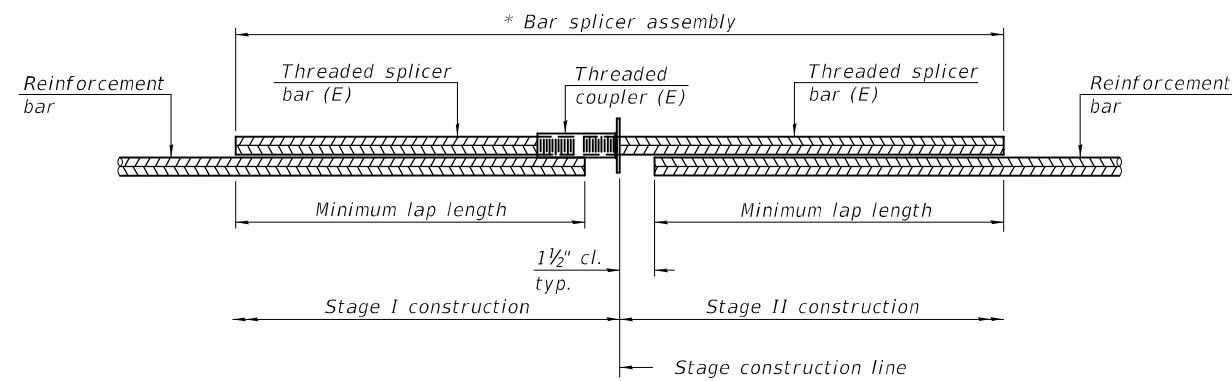
REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL  
 084 - 0183

SHEET NO. 7 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(107Z) BDR-1	SANGAMON	24	11
CONTRACT NO. 72M29				
ILLINOIS FED. AID PROJECT				

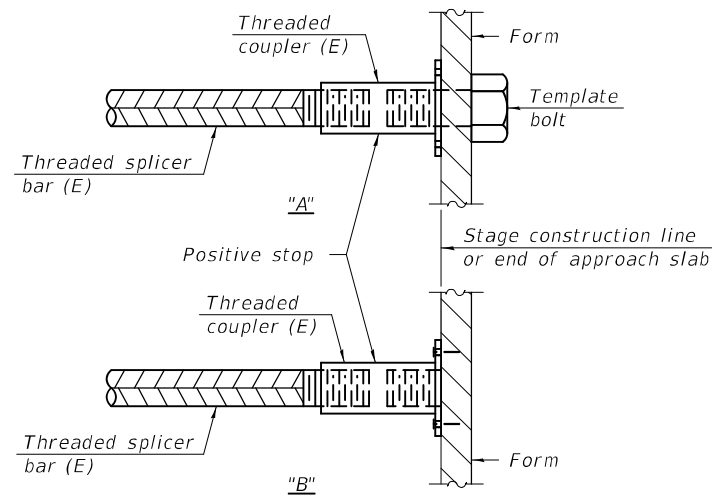


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
(All components shall be provided from one supplier)

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
East Abutment	#6	2	3'-7"
East Abutment Hatch Block	#6	2	4'-0"
West Abutment	#6	2	3'-7"
West Abutment Hatch Block	#6	2	4'-0"

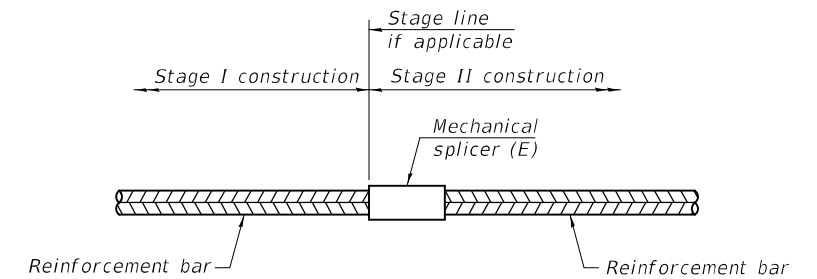


**INSTALLATION AND SETTING METHODS**

"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

DESIGNED - ATH	EXAMINED	DATE - MARCH 16, 2022
CHECKED - SMR	<i>Timothy A. Smith</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Venkat Ramana Reddy	PASSED	REVISED -
CHECKED - ATH	SMR	REVISED -
	<i>James F. Smith</i> ENGINEER OF BRIDGES AND STRUCTURES	

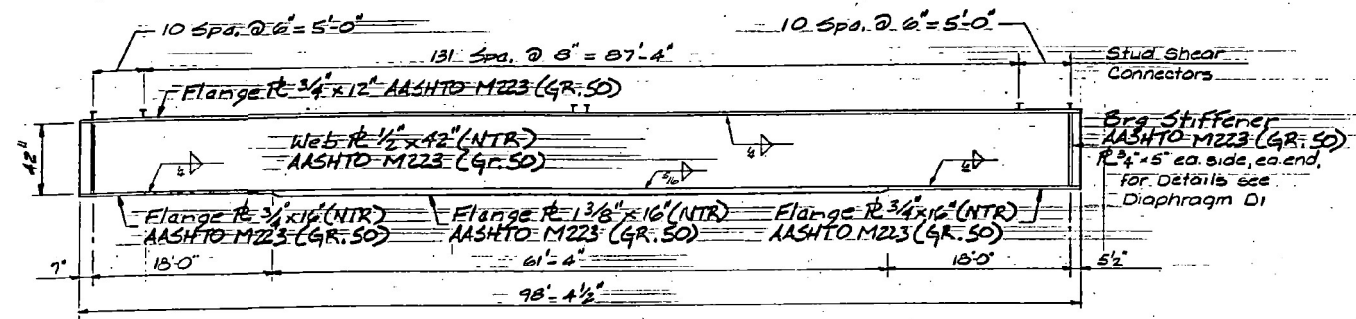
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
SN 084 - 0183

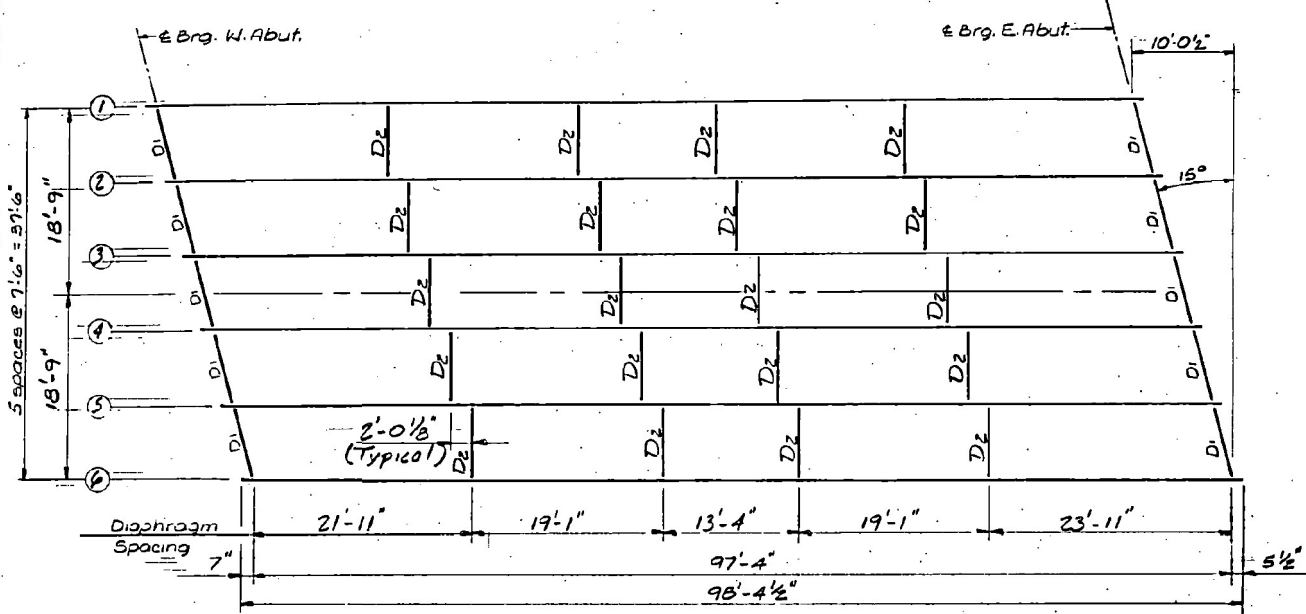
SHEET NO. 8 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(107Z) BDR-1	SANGAMON	24	12
CONTRACT NO. 72M29				
ILLINOIS   FED. AID PROJECT				

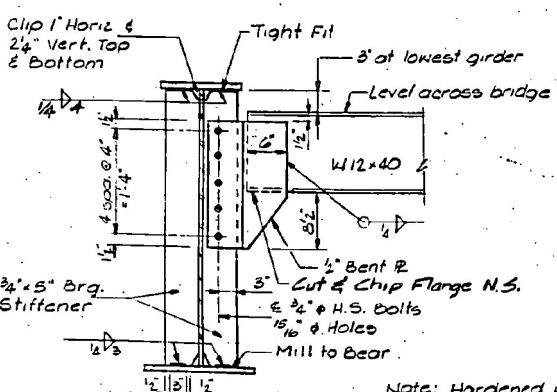
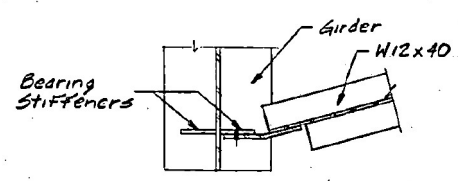
\* Sec. 107Z-6, X-5 & 107Z HB-1



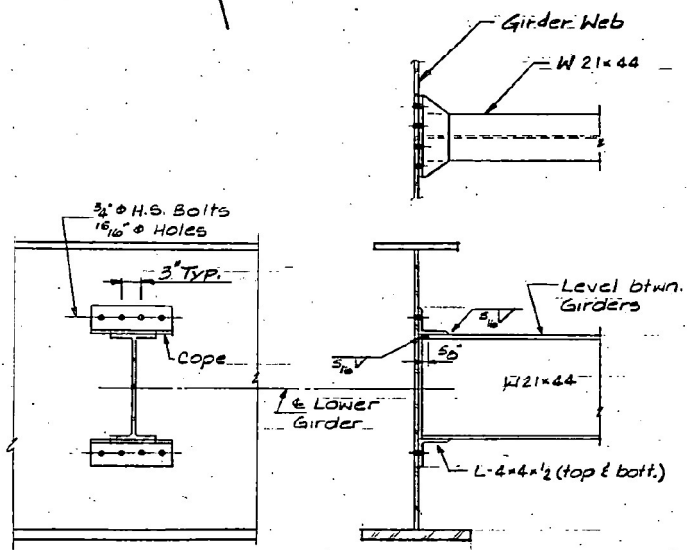
GIRDER ELEVATION



FRAMING PLAN



DIAPHRAGM D1  
10 Req'd.



DIAPHRAGM D2  
20 Req'd.

Note: Hardened washers required over all 1 1/2\"/>

145'  
2 splices  
1/2\"/>

INTERIOR GIRDER MOMENT TABLE

5 Span	
I <sub>o</sub>	(in <sup>4</sup> ) 15,990
I <sub>c</sub>	(in <sup>4</sup> ) 45,400
S <sub>o</sub>	(in <sup>3</sup> ) 946
S <sub>c</sub>	(in <sup>3</sup> ) 1313
M <sub>o</sub>	(k) 0.930
M <sub>o</sub>	(k) 1079
S <sub>o</sub>	(k) 0.355
M <sub>o</sub>	(k) 420
M <sub>o</sub>	(k) 1006
M <sub>o</sub>	(k) 221
M <sub>o</sub> (M <sub>o</sub> + M <sub>o</sub> )	(k) 2045
M <sub>o</sub>	(k) 4634
f <sub>s</sub> Non-Comp. (ksi)	13.94
f <sub>s</sub> Comp. (ksi)	3.84
f <sub>s</sub> 3/4 (I + I)	18.69
f <sub>s</sub> (Overload) (ksi)	56.47
VR	(k) 54.4
M <sub>u</sub>	(k) 4918

INTERIOR GIRDER REACTION TABLE

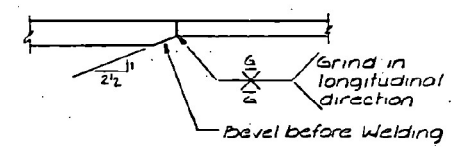
		Abutment	
R <sub>o</sub>	(k)	62.5	
R <sub>o</sub>	(k)	44.4	
R <sub>o</sub>	(k)	10.0	
R TOTAL	(k)	116.9	

I<sub>o</sub> & S<sub>o</sub> are the Moment of Inertia and section modulus of the steel section used in Computing f<sub>s</sub> (Overload); and f<sub>s</sub> (Total).  
I<sub>c</sub> & S<sub>c</sub> are the Moment of Inertia and section modulus of the Composite section used in Computing f<sub>s</sub> (Overload), and f<sub>s</sub> (Total).  
VR is the Maximum Live Load + Impact Shear Range in Span, M<sub>o</sub> (Applied Moment) = 1.3 [M<sub>o</sub> + M<sub>o</sub> + 5/8 (M<sub>o</sub> + I)].  
M<sub>u</sub> is the Moment Capacity for Braced - Non compact, section Computed according to AASHTO Art. 10.50.1.2.  
f<sub>s</sub> (Overload) is the sum of the stresses due to M<sub>o</sub> + M<sub>o</sub> + 5/8 (M<sub>o</sub> + I).  
M<sub>o</sub> = Moment due to Loads on Non-Composite Section.  
M<sub>o</sub> = Moment due to dead Loads on Composite Section.  
M<sub>o</sub> = Moment due to Live Loads on Composite Section.  
I = Live Load Impact.  
M<sub>o</sub> = Moment due to Impact on Composite Section.

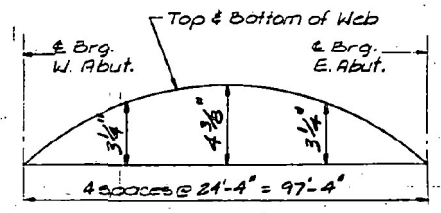
TOP OF WEB ELEVATIONS \*\*

Girder	1	2	3	4	5	6
E Brg. West Abut.	591.46	591.56	591.66	591.64	591.50	591.36
E Brg. East Abut.	590.49	590.59	590.69	590.67	590.53	590.39

\*\* Elevations are for Fabrication only.



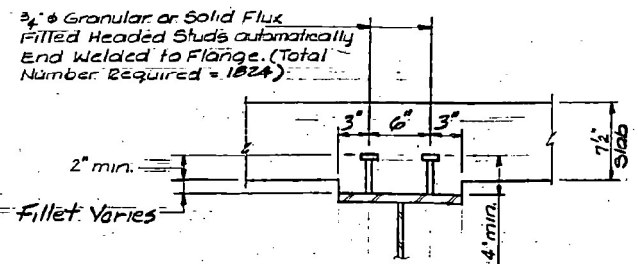
WELDED FLANGE SPLICE



CAMBER DIAGRAM

NOTES  
Plates Noted (NTR) Indicate Notch Toughness Requirements Zone 2 are Applicable.

FOR INFORMATION ONLY



SHEAR CONNECTOR DETAIL

STRUCTURAL STEEL  
BRIDGE OVER WALNUT STREET  
CITY OF SPRINGFIELD  
F.A.P. ROUTE 67 (MADISON STREET)  
SECTION 107 Z HB-1  
SANGAMON COUNTY  
STATION 41+51.53

**GENERAL NOTES**

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

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.

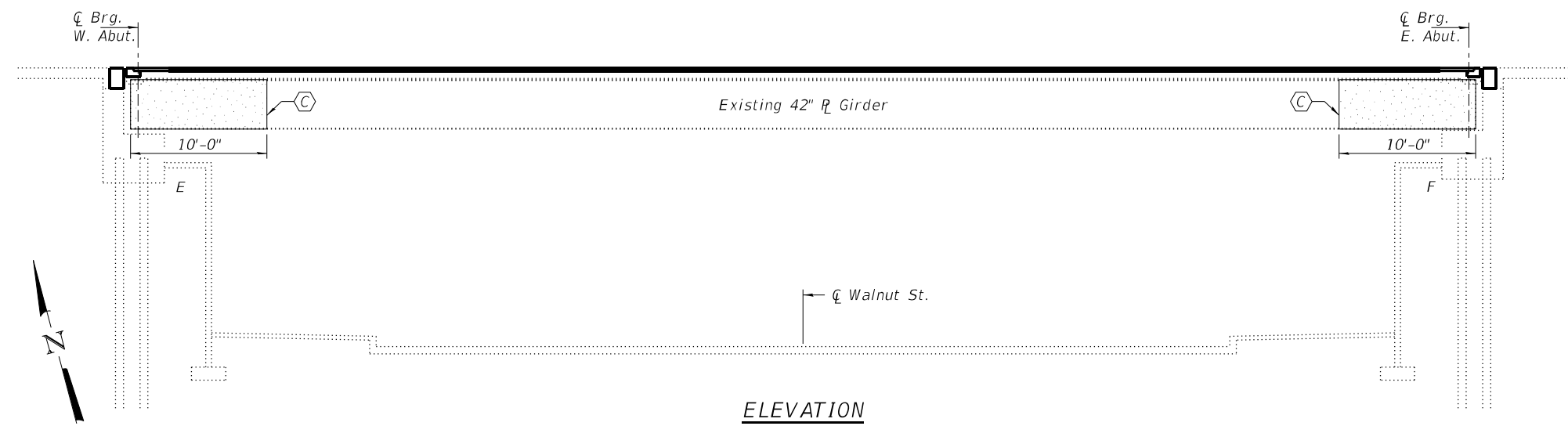
Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Reinforcement bars designated (E) shall be epoxy coated.

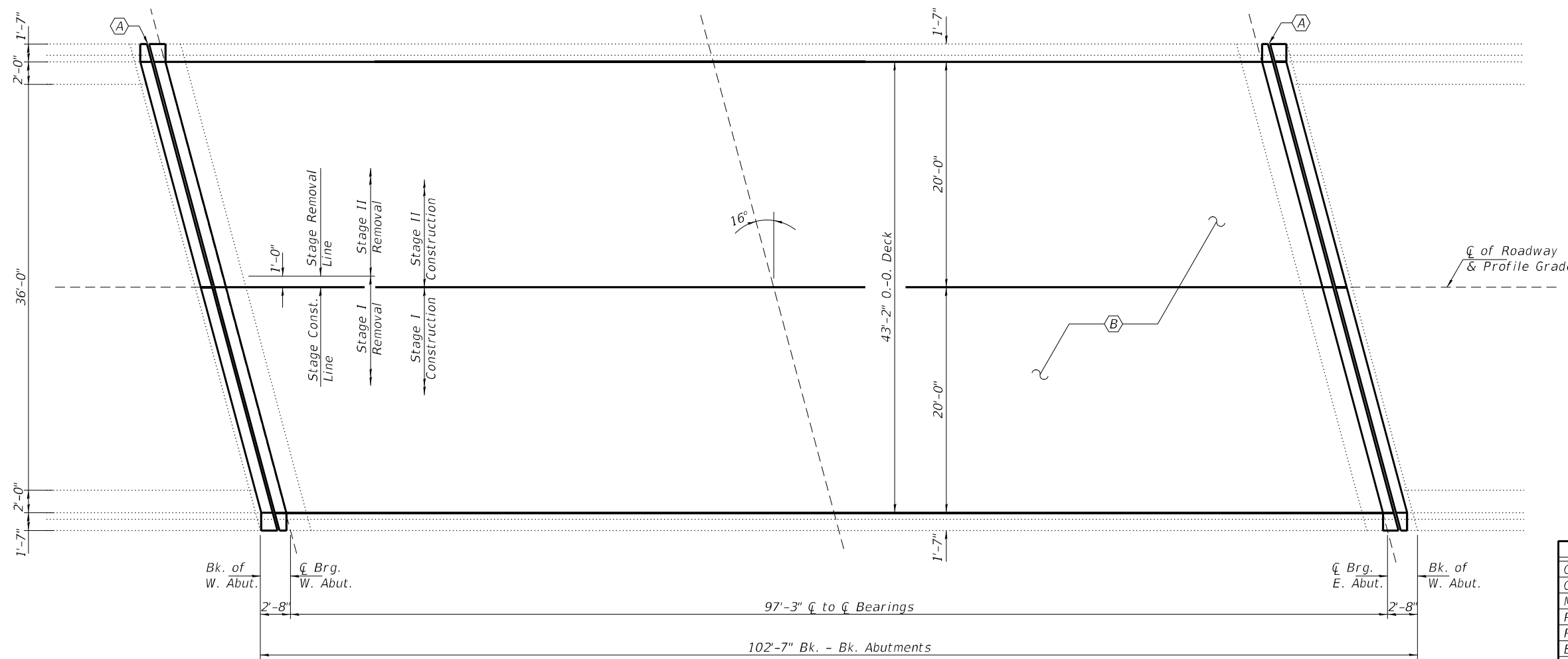
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

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

Traffic will be maintained using stage construction.



**ELEVATION**



**PLAN**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	4.3
Concrete Superstructure	Cu. Yd.	5.2
Microsilicia Concrete Overlay 2 1/2"	Sq. Yd.	432
Preformed Joint Strip Seal	Foot	87
Reinforcement Bars, Epoxy Coated	Pound	1040
Bar Splicers	Each	12
Bridge Deck Scarification 3/4"	Sq. Yd.	432
Deck Slab Repair (Partial)	Sq. Yd.	40
Diamond Grinding (Bridge Section)	Sq. Yd.	388
* Protective Coat	Sq. Yd.	452
Protective Shield	Sq. Yd.	405
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	274
Cleaning and Painting Steel Bridge No. 1	L. Sum	1
Containment and Disposal of Lead Paint	L. Sum	1
Cleaning Residues No. 1	L. Sum	1

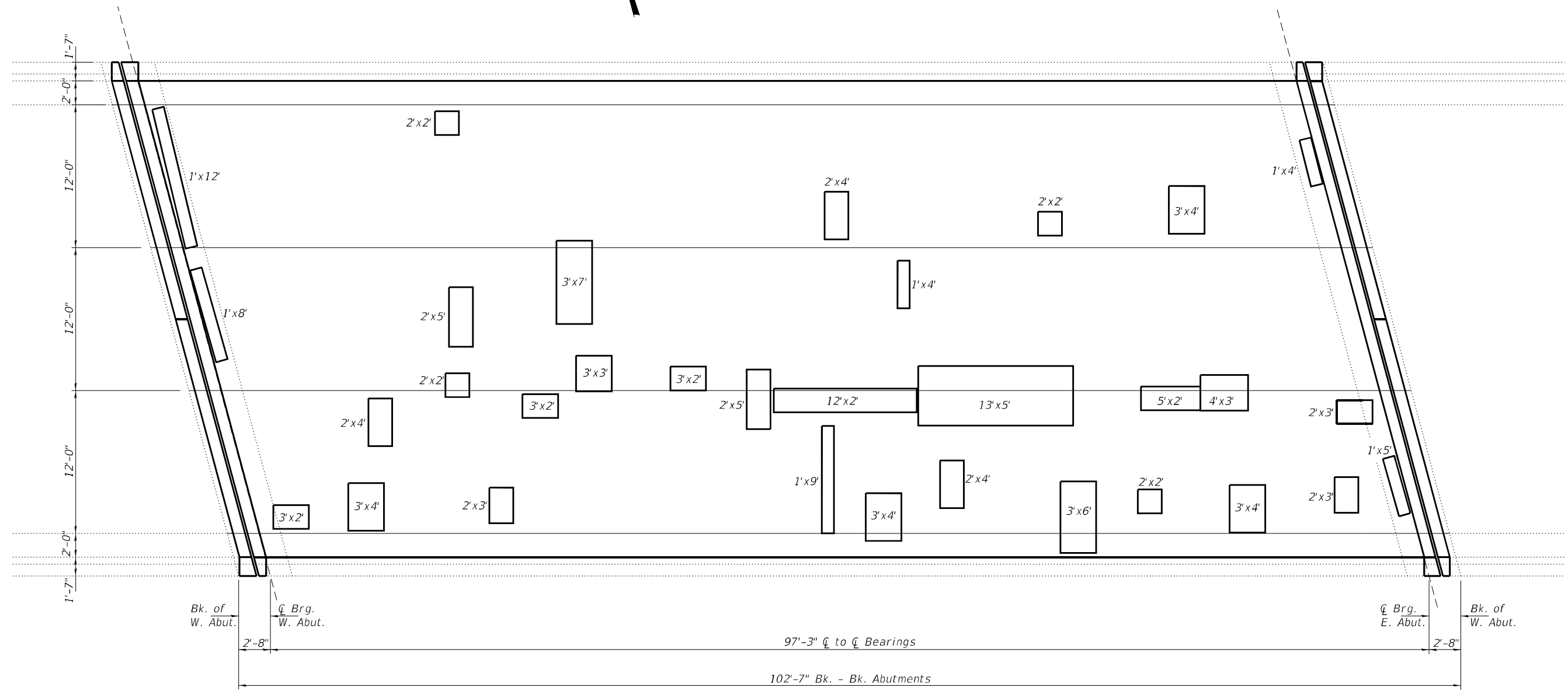
\* Apply to new concrete only.

- (A) - Remove existing Neoprene Joints and install new Preformed Joint Strip Seal.
- (B) - Bridge Deck Scarification 3/4" and 2 1/2" Microsilicia Concrete Overlay
- (C) - Paint 10' of all Beam Ends.

**DRAFT**  
DATE: 02/08/2022

EXPIRES 11-30-2022

DESIGNED - Adrian T. Halloway	EXAMINED - _____ ENGINEER OF STRUCTURAL SERVICES	DATE - FEBRUARY 08, 2022	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN AND ELEVATION IL 97 (MADISON STREET) OVER WALNUT STREET SN 084 - 0183</b>	F.A.P. RTE. 67	SECTION -	COUNTY - SANGAMON	TOTAL SHEETS -	SHEET NO. -	
CHECKED - Victor H. Veliz	PASSED - _____ ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			SHEET NO. 1 OF 9 SHEETS					
DRAWN - Venkat Ramana Reddy		REVISED -			ILLINOIS FED. AID PROJECT					
CHECKED - ATH VHV			CONTRACT NO. 72M29							



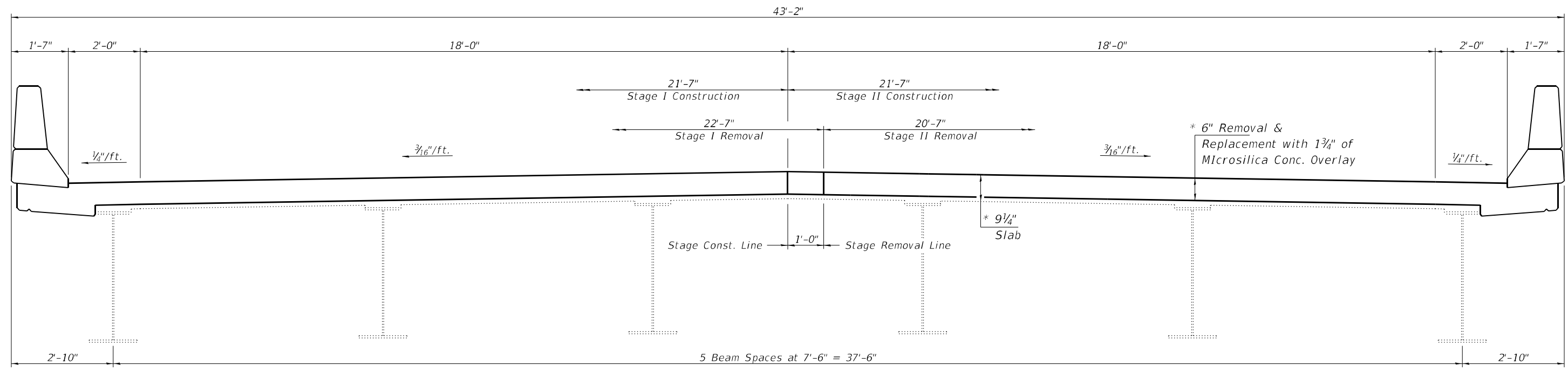
PLAN

**DRAFT**  
DATE: 02/08/2022

**BILL OF MATERIAL**

Item	Unit	Total
Deck Slab Repair (Partial)	Sq. Yd.	40

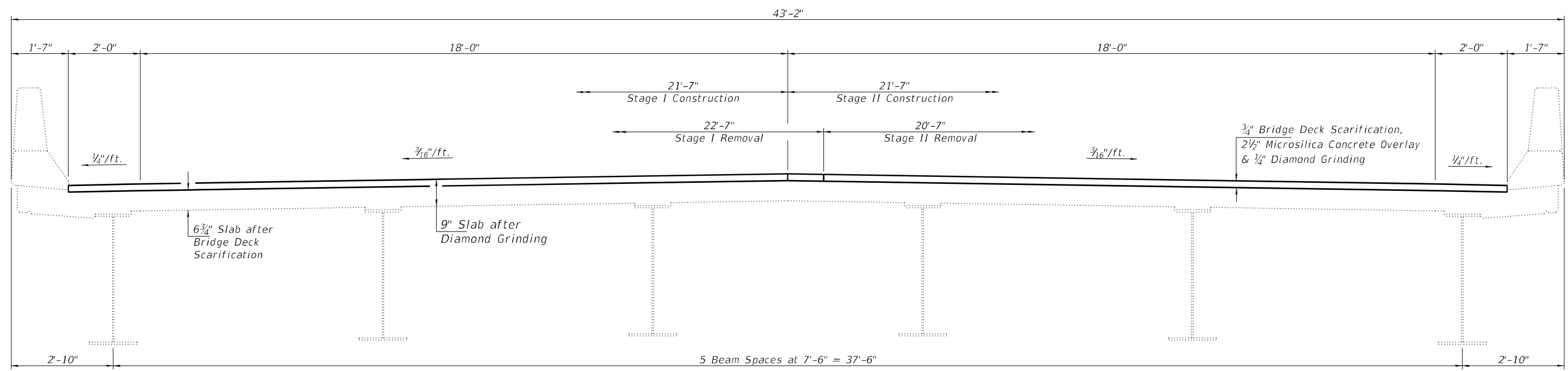
DESIGNED - ATH	EXAMINED	DATE - FEBRUARY 08, 2022	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS &amp; STAGING DETAILS 084 - 0183</b>	F.A.P. RTE. 67	SECTION -	COUNTY SANGAMON	TOTAL SHEETS -	SHEET NO. -
CHECKED - VHV	PASSED	REVISIONS			ILLINOIS	FED. AID PROJECT			
DRAWN - Venkat Ramana Reddy	ENGINEER OF STRUCTURAL SERVICES	REVISIONS	SHEET NO. 2 OF 9 SHEETS		CONTRACT NO. 72M29				
CHECKED - ATH VHV	ENGINEER OF BRIDGES AND STRUCTURES								



**CROSS SECTION AT ABUTMENTS**

(Looking West)

\* Prior to 1/4" Diamond Grinding



**CROSS SECTION AT MID SPAN**

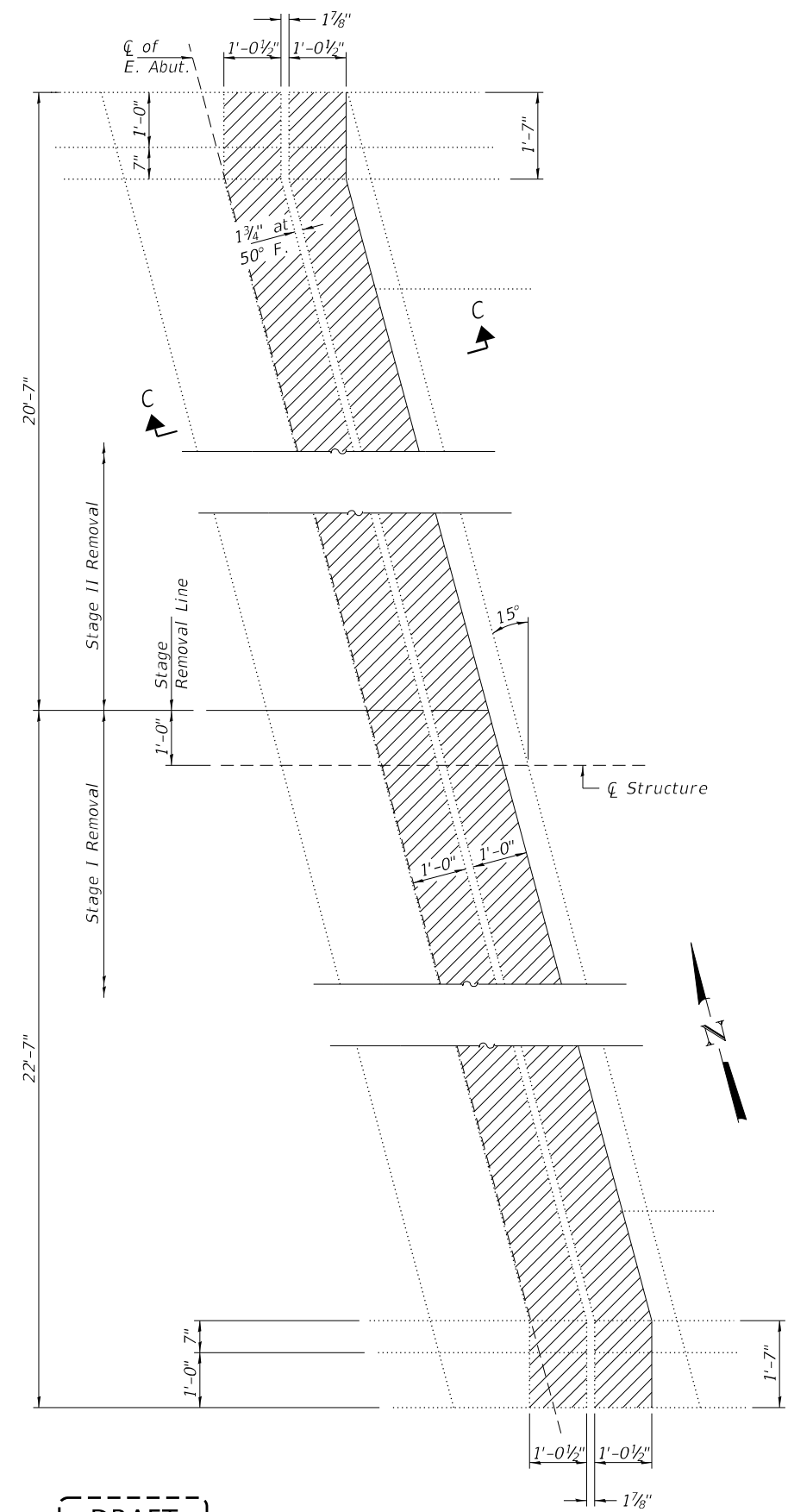
(Looking West)

**DRAFT**  
DATE: 02/08/2022

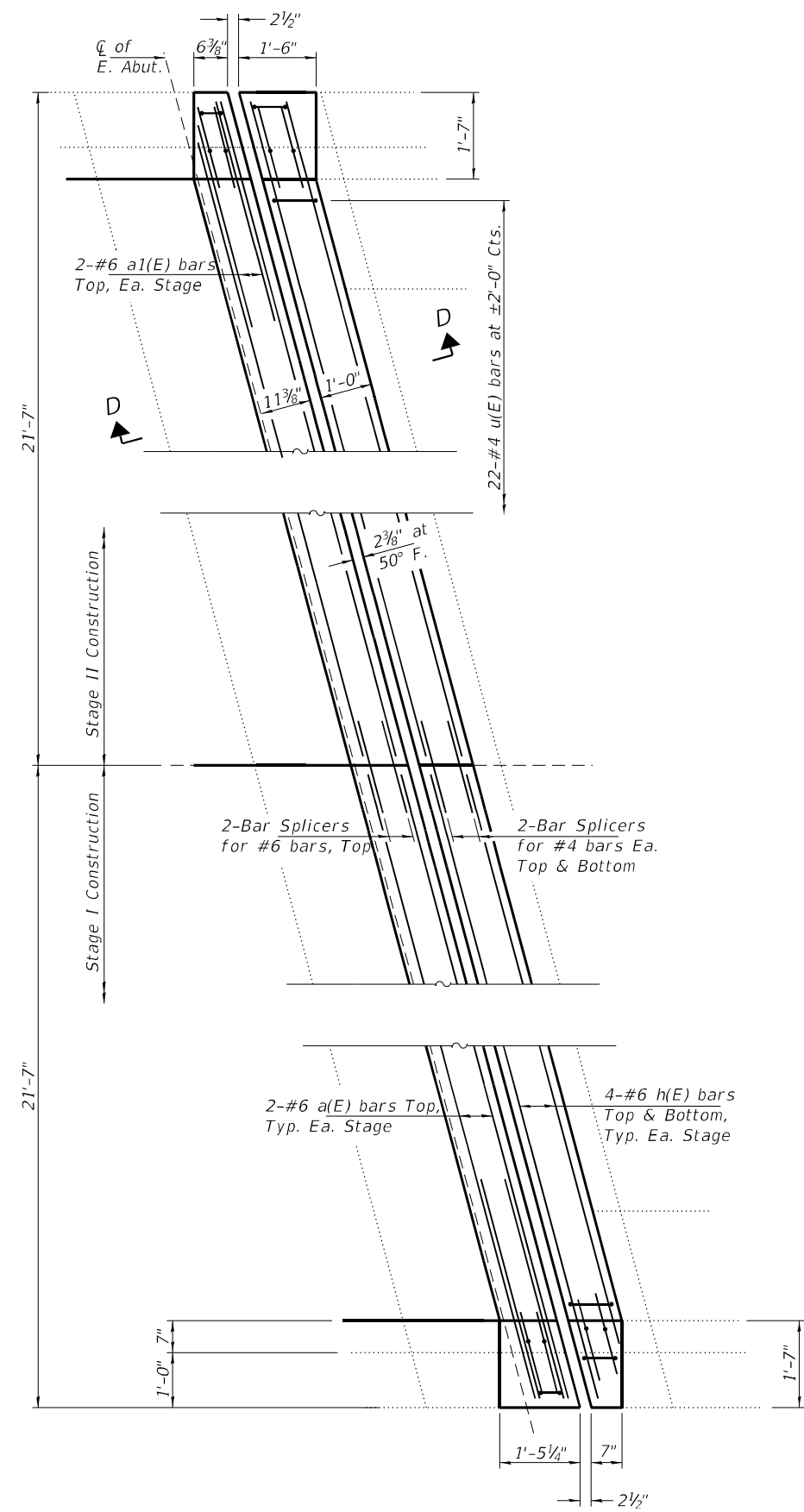
DESIGNED - ATH	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - FEBRUARY 08, 2022	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS &amp; STAGING DETAILS 084 - 0183</b>	F.A.P. RTE. 67	SECTION -	COUNTY - SANGAMON	TOTAL SHEETS -	SHEET NO. -
CHECKED - VHV	PASSED - <i>Carl Rieger</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			SHEET NO. 3 OF 9 SHEETS		CONTRACT NO. 72M29		
DRAWN - Venkat Ramana Reddy		REVISED -			ILLINOIS FED. AID PROJECT				
CHECKED - ATH VHV									



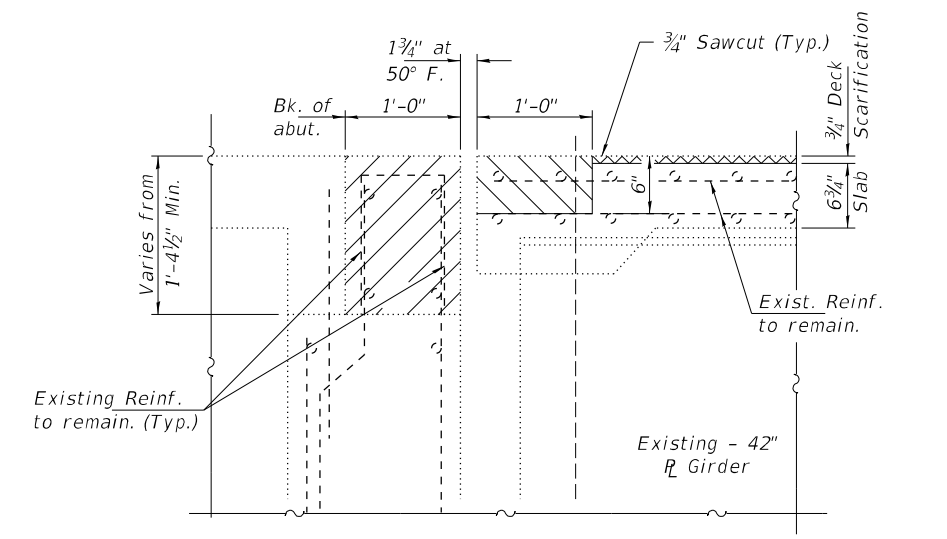




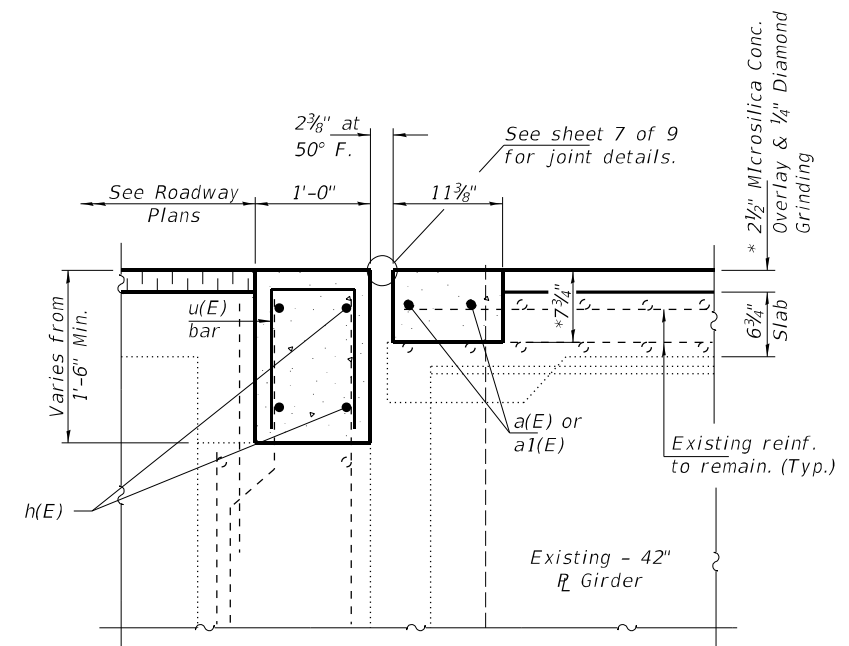
**REMOVAL PLAN**  
(East Abutment)



**REPLACEMENT PLAN**  
(East Abutment)



**SECTION C-C**



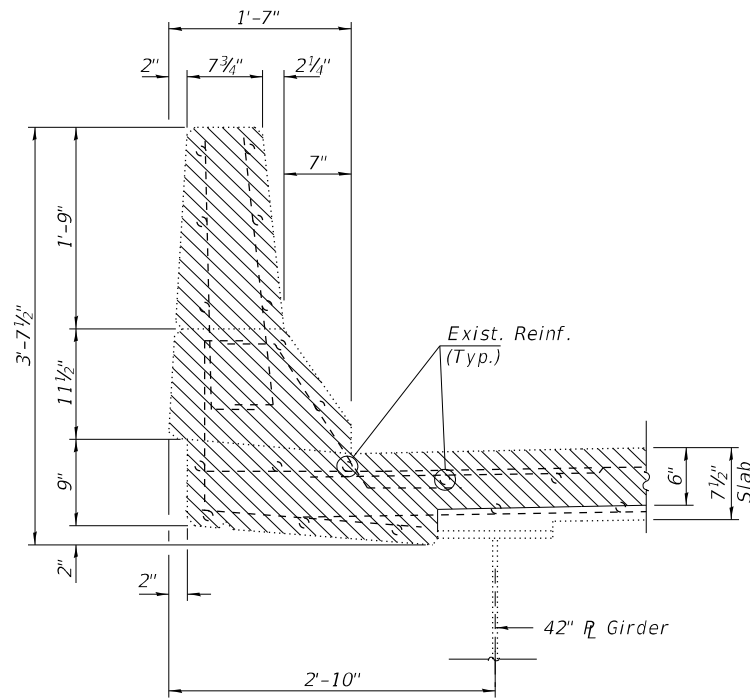
**SECTION D-D**

\* Prior to 1/4" Grinding

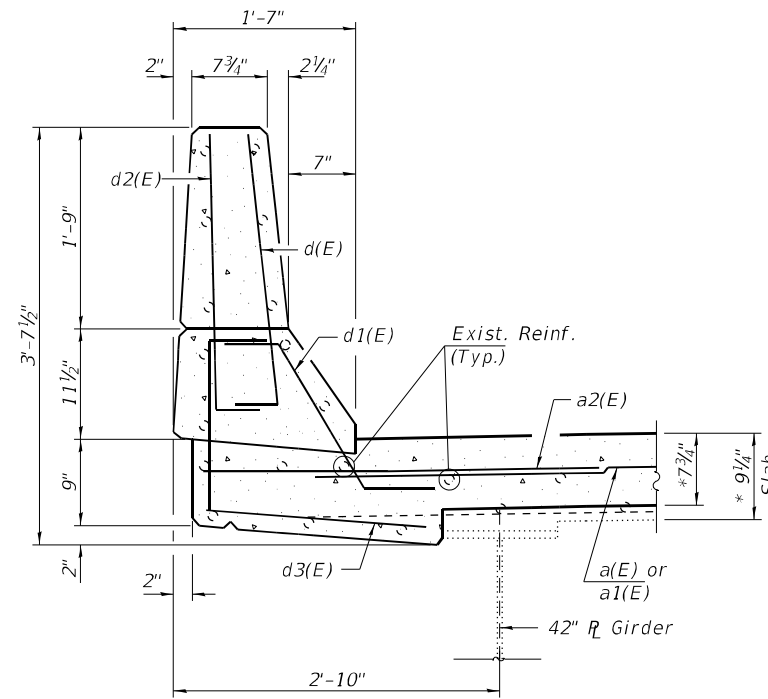
Note:  
See Sheet 6 of 9 for Reinforcement and Parapet Details.

**DRAFT**  
DATE: 02/08/2022

DESIGNED - ATH	EXAMINED - <i>Timothy A. Daulton</i>	DATE - FEBRUARY 08, 2022	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>JOINT REMOVAL &amp; REPLACEMENT DETAILS - EAST ABUTMENT 084 - 0183</b>	F.A.P. RTE. 67	SECTION -	COUNTY -	TOTAL SHEETS -	SHEET NO. -
CHECKED - VHV	PASSED - <i>Carl Rieger</i>	REVISED -			SANGAMON	-	-	-	-
DRAWN - Venkat Ramana Reddy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	SHEET NO. 5 OF 9 SHEETS		ILLINOIS FED. AID PROJECT				
CHECKED - ATH VHV	ENGINEER OF STRUCTURAL SERVICES	REVISED -							



**REMOVAL DETAILS**



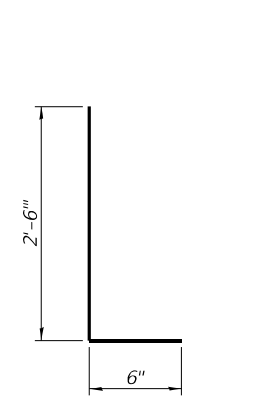
**REPLACEMENT DETAILS**

\*\*\*Prior to 1/4" Grinding

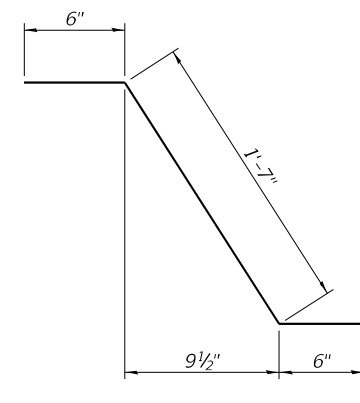
**SECTION THRU BRIDGE PARAPET AT BOTH ABUTMENTS**

Concrete Replacement

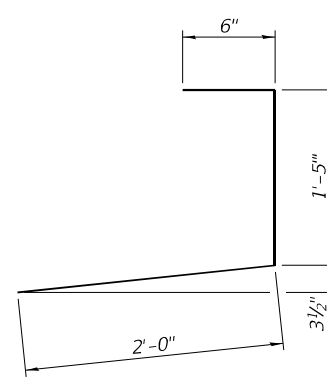
Concrete Replacement



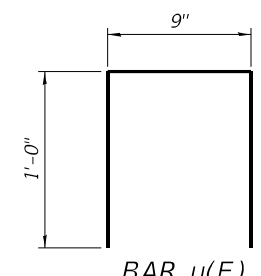
**BAR d(E) & d2(E)**



**BAR d1(E)**



**BAR d3(E)**

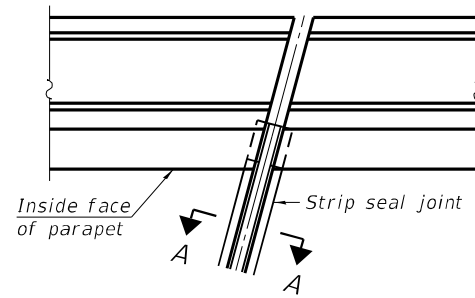


**BAR u(E)**

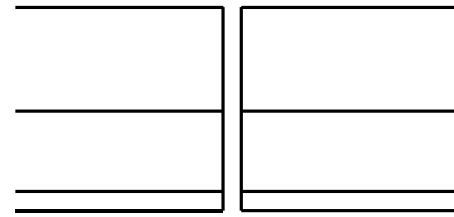
**BILL OF MATERIAL  
(TWO ABUTMENTS)**

Bar	No.	Size	Length	Shape
a(E)	8	#6	21'-3"	—
a1(E)	8	#6	4'-0"	—
d(E)	16	#4	3'-0"	L
d1(E)	16	#4	2'-7"	L
d2(E)	16	#4	3'-0"	L
d3(E)	16	#4	3'-11"	L
h(E)	16	#6	21'-3"	—
u(E)	44	#4	2'-9"	U
Concrete Removal			Cu. Yd.	4.3
Concrete Superstructure			Cu. Yd.	5.2
Protective Coat			Sq. Yd.	452
Bar Splicers			Each	12
Reinforcement Bars, Epoxy Coated			Pound	1040

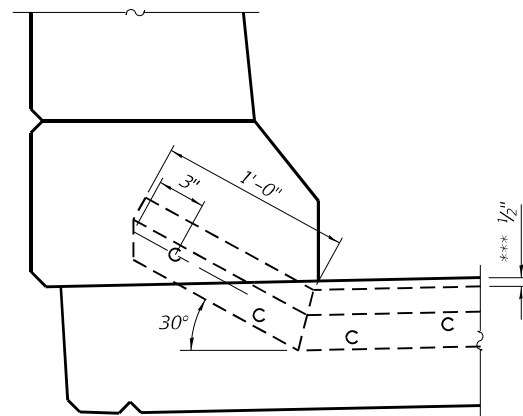
**DRAFT**  
DATE: 02/08/2022



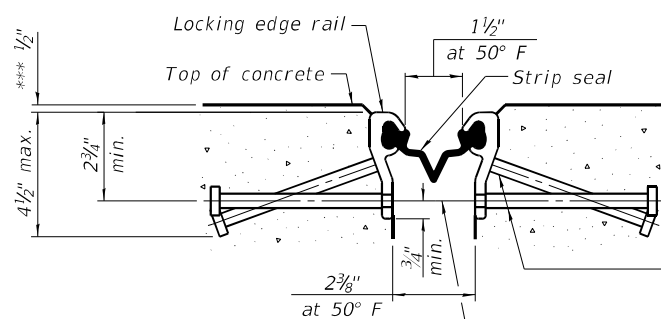
FOR SKEWS  $\leq 30^\circ$   
PLAN AT PARAPET



ELEVATION AT PARAPET

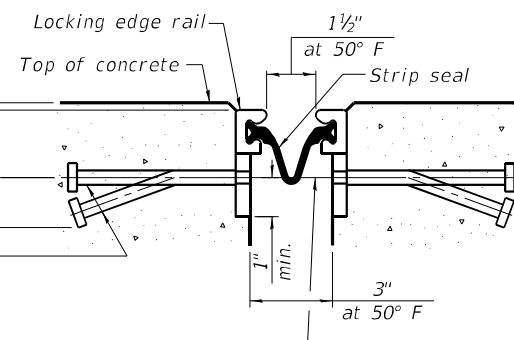


PARAPET ELEVATION AT ABUTMENTS  
 (Skews  $\leq 30^\circ$ )



SHOWING ROLLED RAIL JOINT

\*  $\frac{5}{8}$ "  $\emptyset$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 $\frac{3}{8}$ "  $\emptyset$  threaded rods in  $\frac{1}{16}$ "  $\emptyset$  holes at  $\pm 4$ "-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.

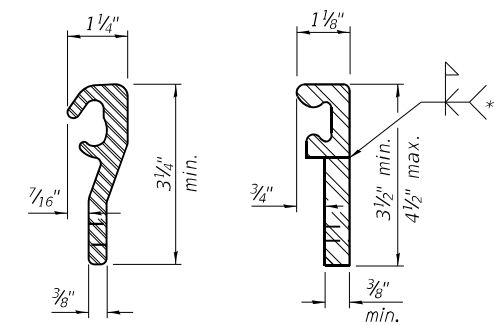


SHOWING WELDED RAIL JOINT

SECTION A-A

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

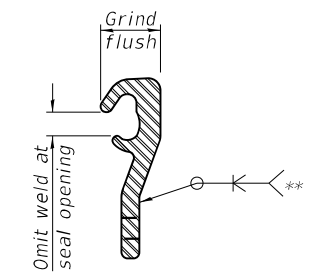
\*\*\*Prior to  $\frac{1}{4}$ " Grinding



ROLLED (EXTRUDED) RAIL      WELDED RAIL

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	87

**DRAFT**  
 DATE: 02/08/2022

EJ-SS1 LT30/REPS

2-25-20

DESIGNED - ATH	EXAMINED
CHECKED - VHV	PASSED
DRAWN - Venkat Ramana Reddy	
CHECKED - ATH VHV	

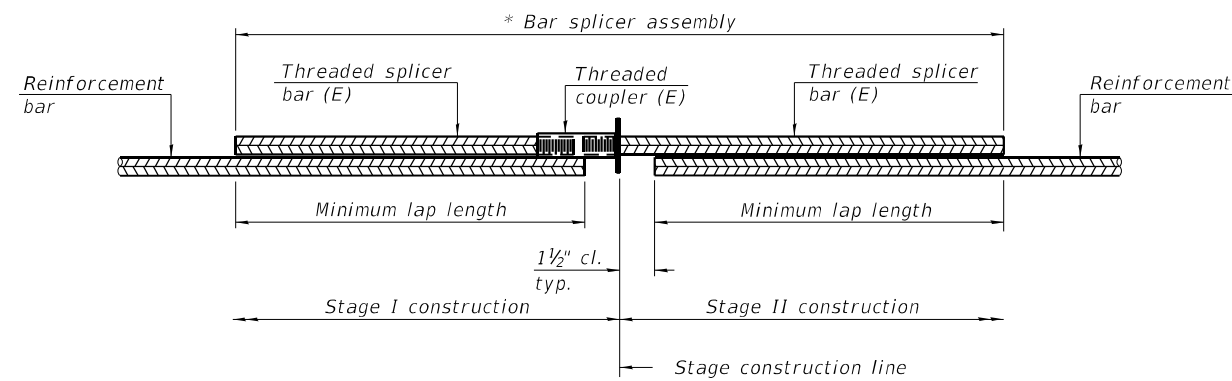
 ENGINEER OF STRUCTURAL SERVICES	DATE - FEBRUARY 08, 2022
 ENGINEER OF BRIDGES AND STRUCTURES	REVISED - REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL  
 084 - 0183

SHEET NO. 7 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	-	SANGAMON	-	-
ILLINOIS			CONTRACT NO. 72M29	
FED. AID PROJECT				

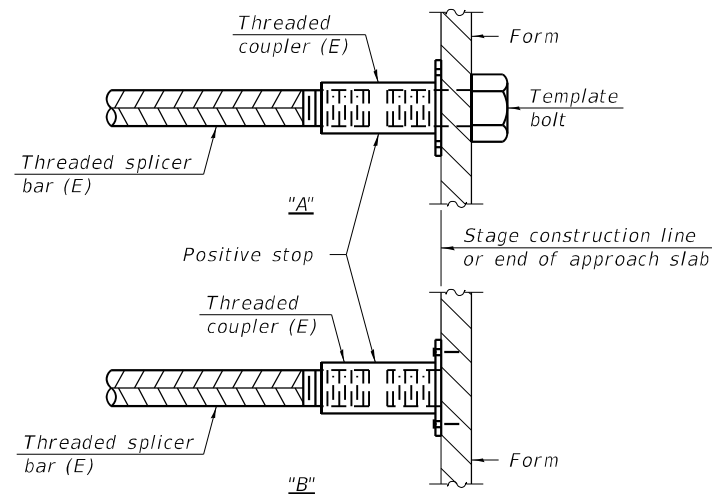


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

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
East Abutment	#6	2	3'-7"
East Abutment	#4	4	2'-5"
West Abutment	#6	2	3'-7"
West Abutment	#4	4	2'-5"

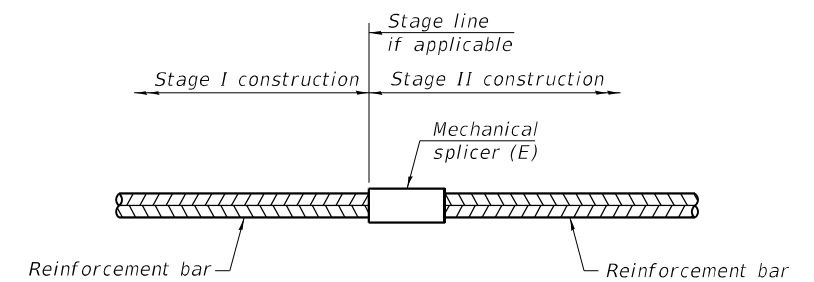


**INSTALLATION AND SETTING METHODS**

"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.

**DRAFT**  
 DATE: 02/08/2022

BSD-1

1-1-2020

DESIGNED - ATH	EXAMINED	DATE - FEBRUARY 08, 2022
CHECKED - VHV	<i>Timothy A. ...</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Venkat Ramana Reddy	PASSED	REVISED -
CHECKED - ATH VHV	<i>Carl ...</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

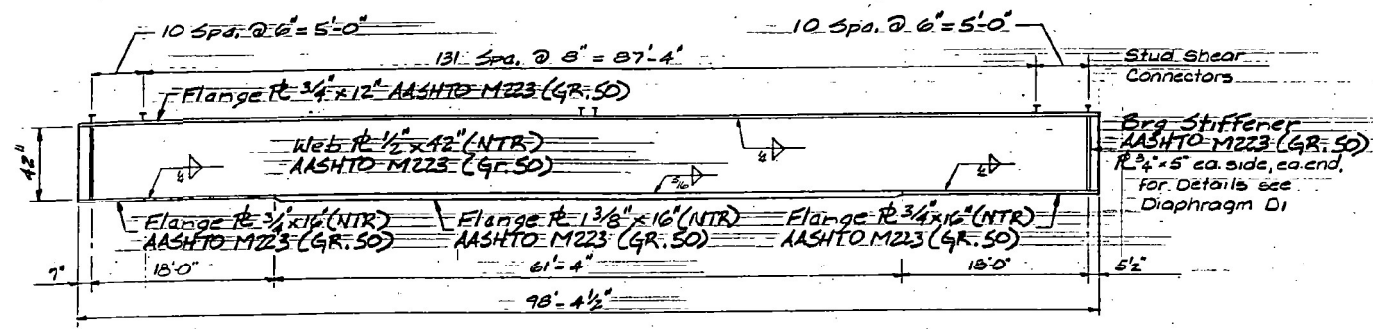
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS**  
**SN 084 - 0183**

SHEET NO. 8 OF 9 SHEETS

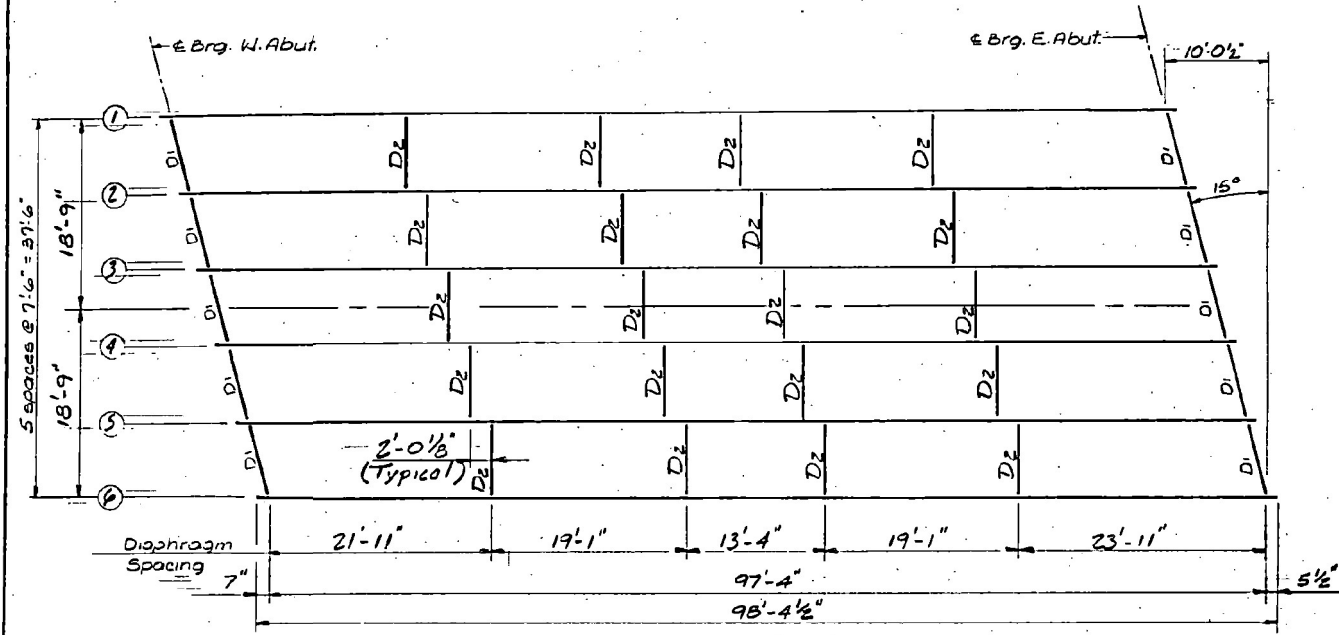
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	-	SANGAMON	-	-
CONTRACT NO. 72M29				
ILLINOIS		FED. AID PROJECT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
67	*	SANGAMON	95 43
STA.		TO STA.	
FROM A. REG.		ILLINOIS	

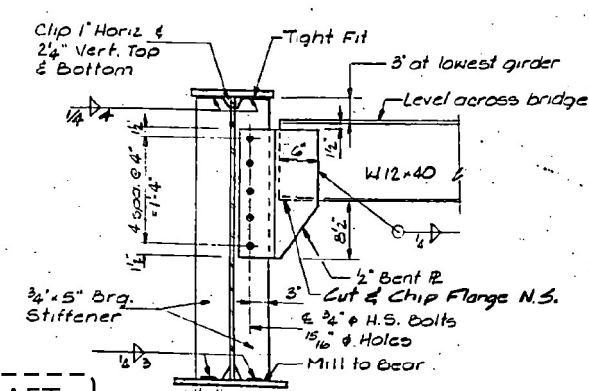
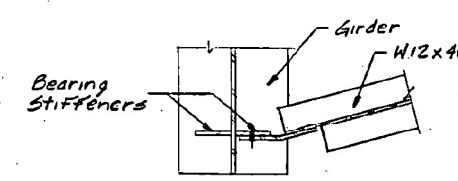
Sh't. 5 of 9 Sh'ts.  
\* See 107Z-6, X-5 & 107Z HB-1



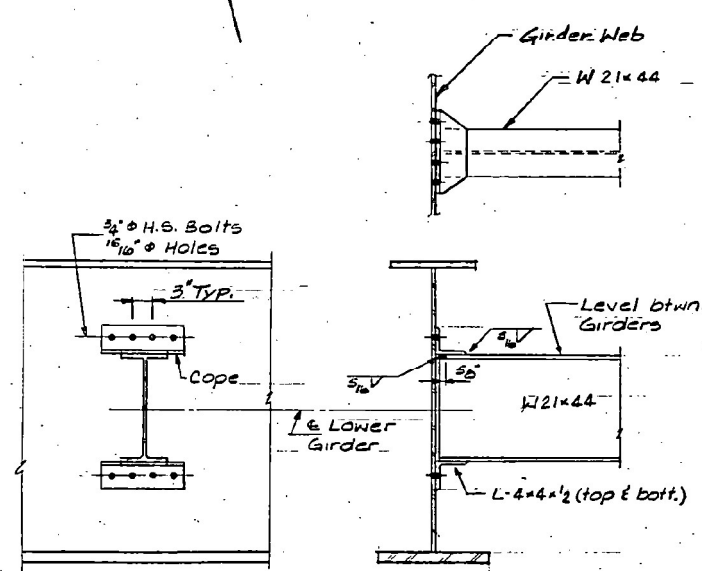
GIRDER ELEVATION



FRAMING PLAN



DIAPHRAGM D1  
10 Req'd.



DIAPHRAGM D2  
20 Req'd.

Note: Hardened washers required over all 1 1/2" Holes  
2 Washers per Bolt (One Ea. Side)

145'  
2 spaces  
12" x 42" WCB  
14x14 TIF  
2'8" x 16" ZF

INTERIOR GIRDER MOMENT TABLE

		5 Span
I <sub>x</sub>	(in <sup>4</sup> )	15,990
I <sub>c</sub>	(in <sup>4</sup> )	45,400
S <sub>s</sub>	(in <sup>3</sup> )	946
S <sub>c</sub>	(in <sup>3</sup> )	1313
D	(in)	0.930
M <sub>D</sub>	(k)	1099
S <sub>R</sub>	(k/in)	0.355
M <sub>s</sub>	(k)	420
M <sub>L</sub>	(k)	1006
M <sub>I</sub>	(k)	221
1/2(M <sub>L</sub> +M <sub>I</sub> )	(k)	2045
M <sub>a</sub>	(k)	4634
F <sub>s</sub> Non-Comp. (ksi)		13.94
F <sub>s</sub> Comp. (ksi)		3.84
F <sub>s</sub> (L+I) (ksi)		18.69
F <sub>s</sub> (overload) (ksi)		36.47
VR	(k)	54.4
M <sub>U</sub>	(k)	4918

INTERIOR GIRDER REACTION TABLE

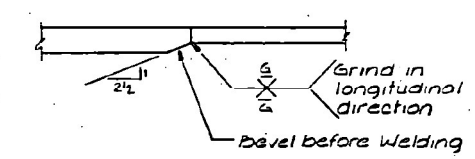
		Abutment
R <sub>e</sub>	(k)	62.5
R <sub>L</sub>	(k)	44.4
R <sub>I</sub>	(k)	10.0
R TOTAL	(k)	116.9

I<sub>x</sub> & S<sub>s</sub> are the Moment of Inertia and section modulus of the steel section used in computing F<sub>s</sub> (Overload); and F<sub>s</sub> (Total).  
I<sub>c</sub> & S<sub>c</sub> are the Moment of Inertia and section modulus of the Composite Section used in computing F<sub>s</sub> (Overload), and F<sub>s</sub> (Total).  
VR is the Maximum Live Load + Impact Shear Range in Span.  
M<sub>a</sub> (Applied Moment) = 1.3 [M<sub>D</sub> + M<sub>s</sub> + 1/2 (M<sub>L</sub> + I)].  
M<sub>U</sub> is the Moment Capacity for Braced-Non compact, Section Computed according to AASHTO Art. 10.50.1.2.  
F<sub>s</sub> (Overload) is the sum of the stresses due to M<sub>D</sub> + M<sub>s</sub> + 1/2 (M<sub>L</sub> + I).  
M<sub>D</sub> = Moment due to Loads on Non-Composite Section.  
M<sub>s</sub> = Moment due to dead Loads on Composite Section.  
M<sub>L</sub> = Moment due to Live Loads on Composite Section.  
I = Live Load Impact.  
M<sub>I</sub> = Moment due to Impact on Composite Section.

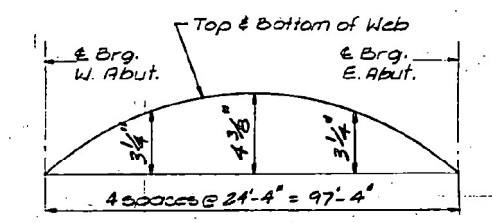
TOP OF WEB ELEVATIONS \*\*

Girder	1	2	3	4	5	6
Brig. West. Abut.	591.46	591.56	591.66	591.64	591.50	591.36
Brig. East. Abut.	590.49	590.59	590.69	590.67	590.53	590.39

\*\* Elevations are for Fabrication only.

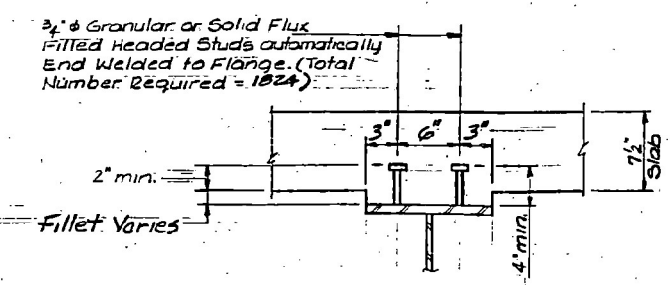


WELDED FLANGE SPLICE



CAMBER DIAGRAM

FOR INFORMATION ONLY

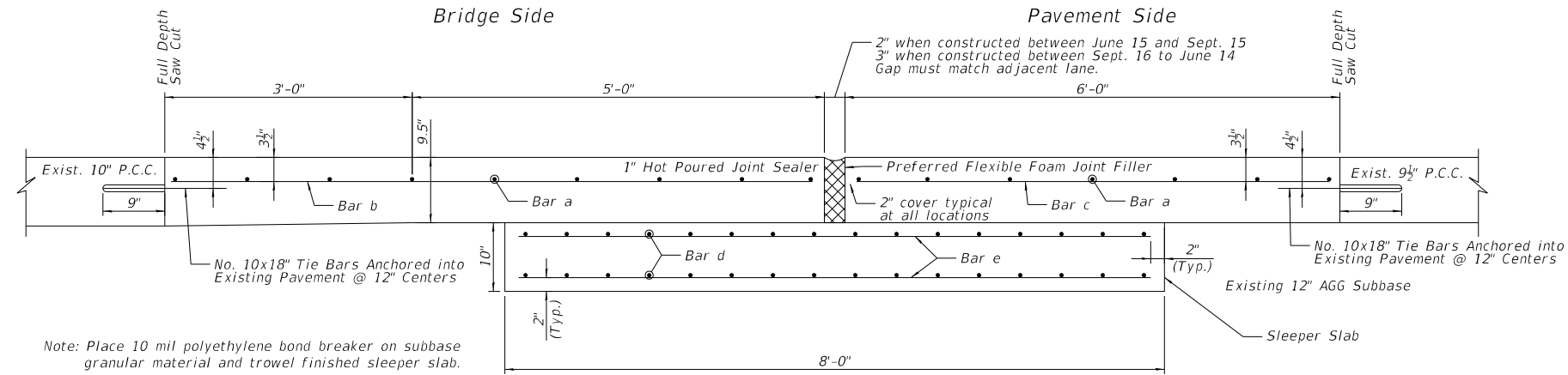


SHEAR CONNECTOR DETAIL

STRUCTURAL STEEL  
BRIDGE OVER WALNUT STREET  
CITY OF SPRINGFIELD  
F.A.P. ROUTE 67 (MADISON STREET)  
SECTION 107 Z HB-1  
SANGAMON COUNTY  
STATION 41+51.53

DRAFT  
DATE: 02/08/2022

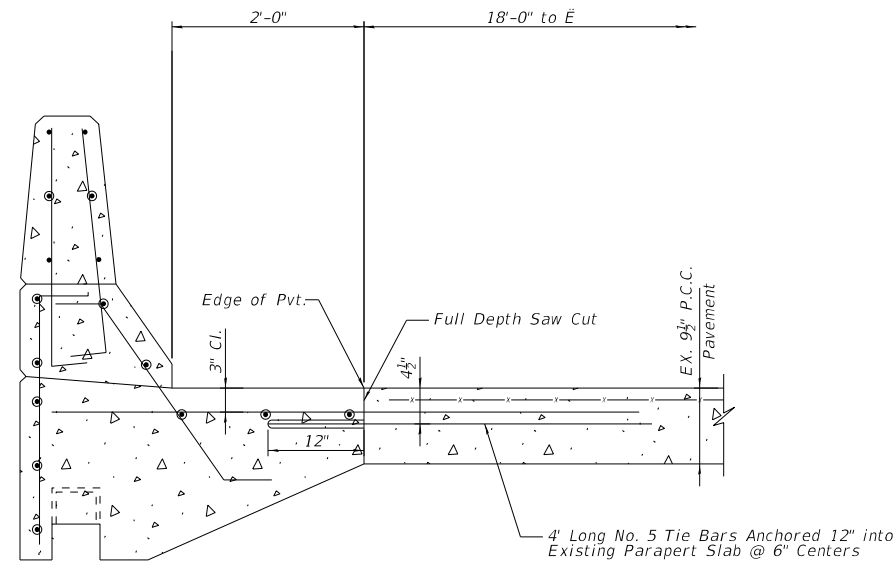
# 72M29 Expansion Joint Replacment



Note: Place 10 mil polyethylene bond breaker on subbase granular material and trowel finished sleeper slab.

Bar a	11'-8"	#6 @ 12" centers	16 Bars per Lane
Bar b	7'-8"	#6 @ 6" centers	13 Bars per Lane
Bar c	5'-8"	#6 @ 6" centers	13 Bars per Lane
Bar d	11'-8"	#5 @ 6" centers	34 Bars per Lane
Bar e	7'-8"	#4 @ 12" centers	13 Bars per Lane

## 72M29 Detail Adjacent to Parapet Removal Plan



### PARAPET SECTION

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	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2022	DATE -	REVISED -

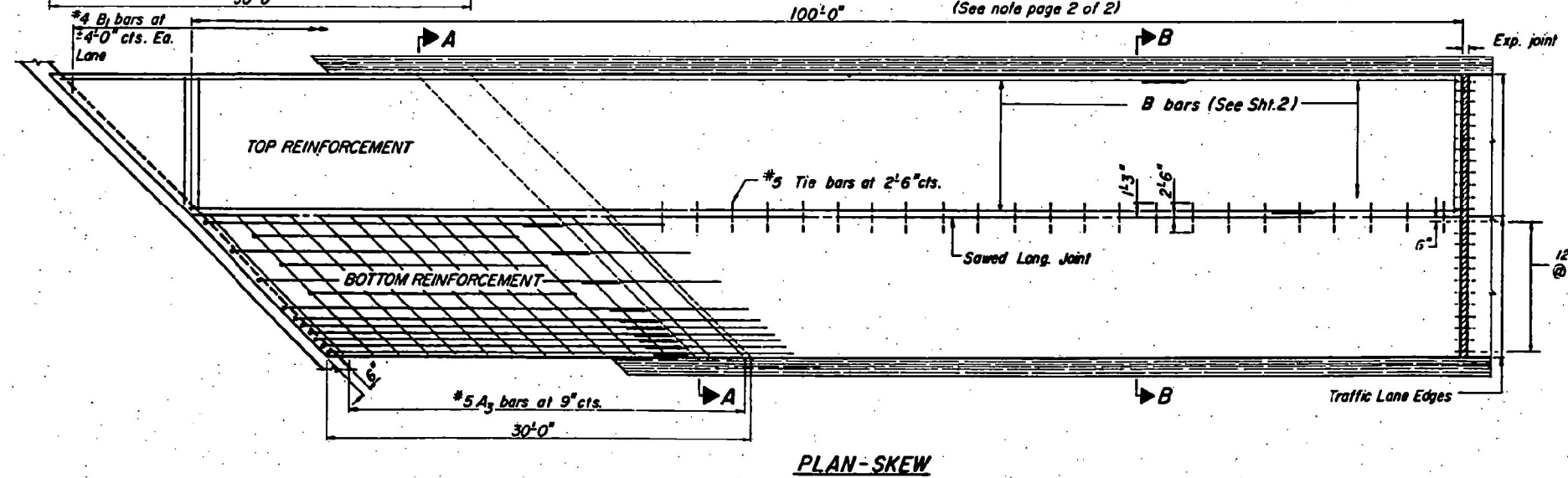
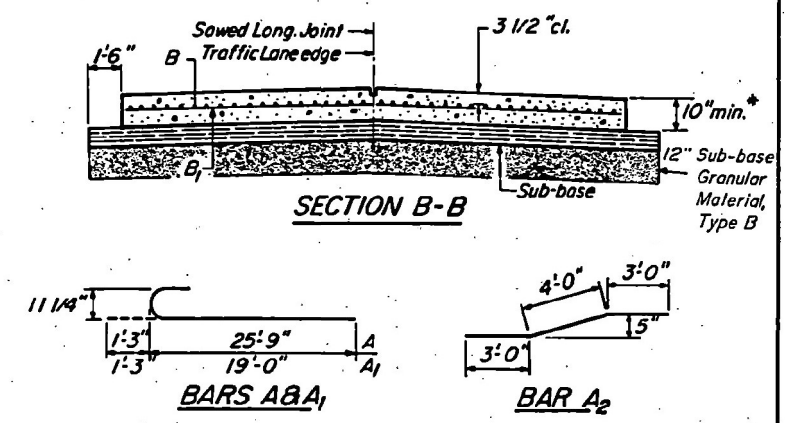
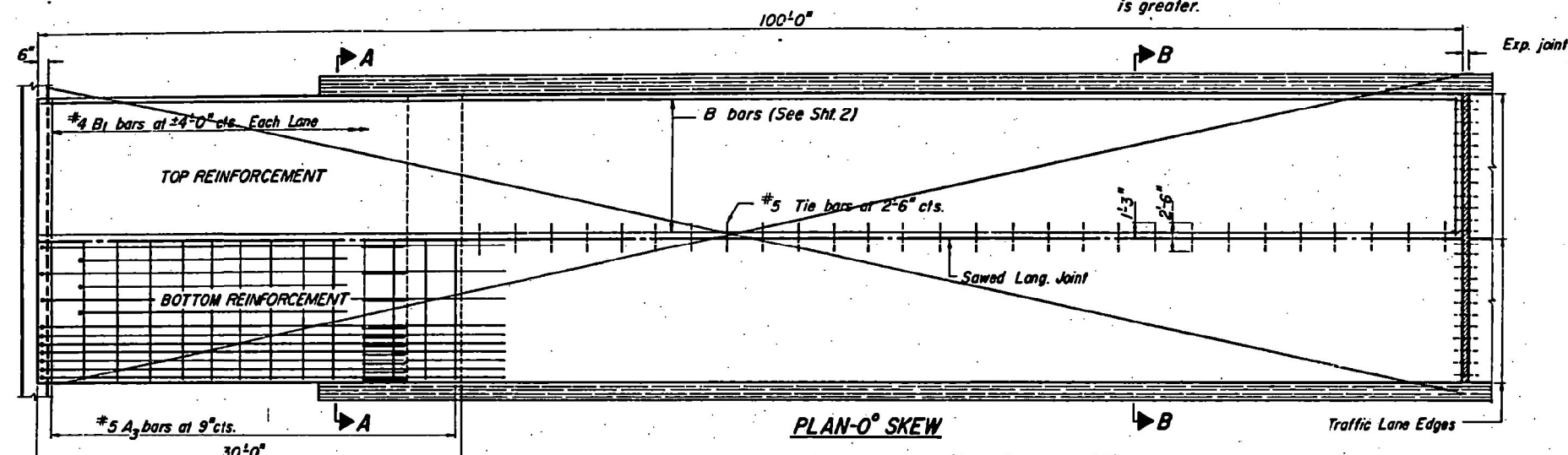
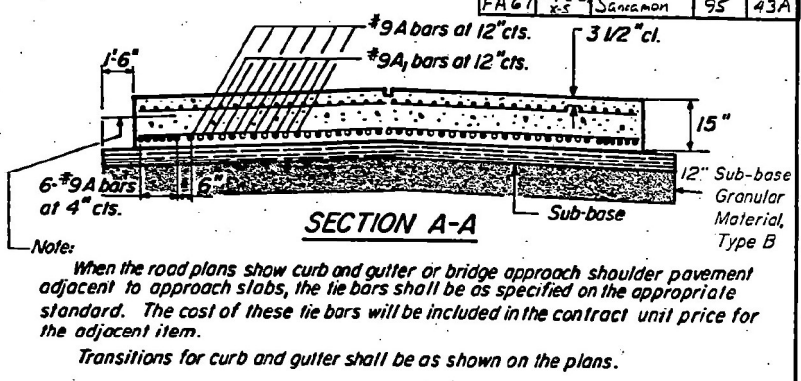
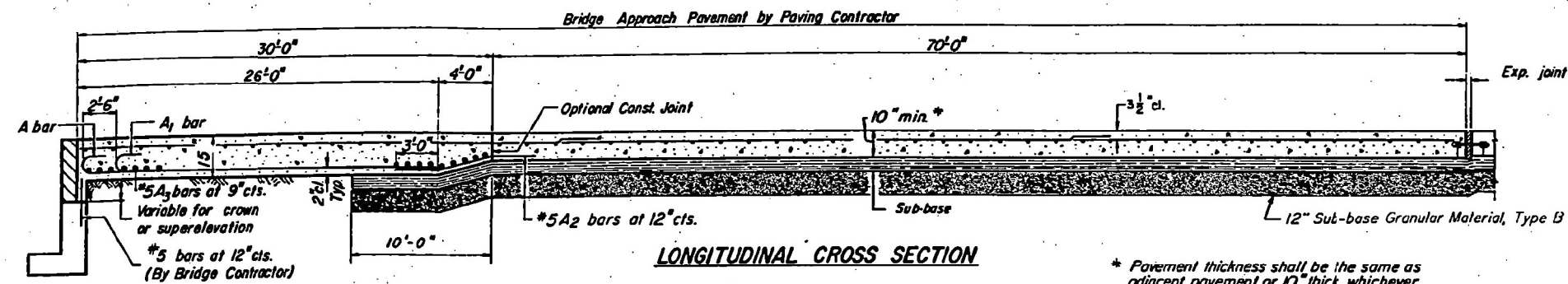
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT  
DETAIL

SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(107Z) BDR-1	SANGAMON	24	23
CONTRACT NO. 72M29				
ILLINOIS FED. AID PROJECT				

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 67	1072-BDR-1	SANGAMON	95	43A



**GENERAL NOTES**

With the approval of the Engineer the contractor will be permitted to reduce the paving widths by substituting a Keved Longitudinal Construction Joint with tie bars in lieu of the Specified Sawed Longitudinal Joint.

When Bridge Approach Pavement is constructed adjacent to flexible pavement, the expansion joint and dowel bars are not required.

Pavement joints shall be as detailed on Standard 2323.

The Contractor at his option may place the subbase monolithic with the bridge approach pavement. When this option is used, the subbase may be constructed to the same width as the pavement, and the reinforcement shall be in accordance to the total pavement and sub-base thickness.

The cost of tie bars, expansion joint and sub-base shall be included in the cost of Bridge Approach Pavement.

The sub-base shall be of the same material and thickness as under adjacent pavement. When sub-base is not required under adjacent pavement, the sub-base shall be either 6" granular or 4" stabilized material.

FOR INFORMATION ONLY

**BRIDGE APPROACH PAVEMENT**  
**(SPECIAL)**  
**(Sheet 1 of 2)**

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/11/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE APPROACH PAVEMENT (SPECIAL)	
SCALE: N/A	SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(1072) BDR-1	SANGAMON	24	24
CONTRACT NO. 72M29				
ILLINOIS FED. AID PROJECT				

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