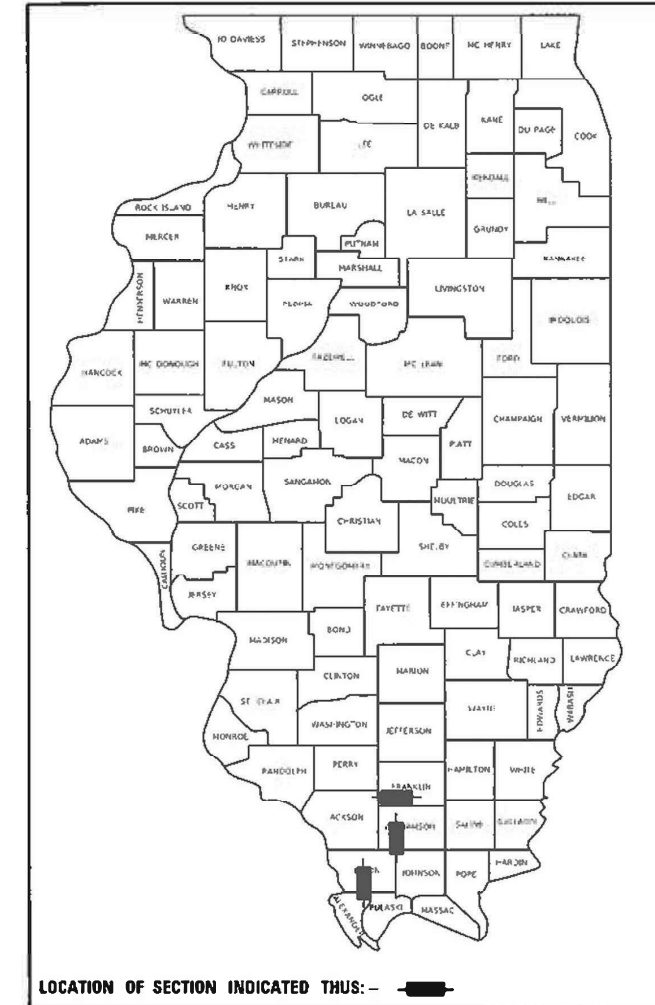


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45*	1
		ILLINOIS	CONTRACT NO. 78848	

* 45 + 1 = 46 TOTAL SHEETS

D-99-024-21



**PROPOSED
HIGHWAY PLANS**

FAP 726, FAS 1907 & FAP 873 (IL 148, IL 127 & IL 149)
SECTION D9 BRIDGE DECK REPAIR 2022-1
PROJECT STP-CQVD-BGJO(279)
DECK REPAIRS
WILLIAMSON, UNION & FRANKLIN COUNTIES

C-99-032-21

TRAFFIC DATA

- SN 100-0069 : 2019 ADT = 5,500
6 % TRUCKS
- SN 091-0064(67) : 2019 ADT = 1,300
6 % TRUCKS
- SN 028-0037 : 2019 ADT = 2,550
3 % TRUCKS

TOWNSHIP

- SN 100-0069 : WEST MARION
- SN 091-0064(67) : JONESBORO
- SN 028-0037 : DENNING

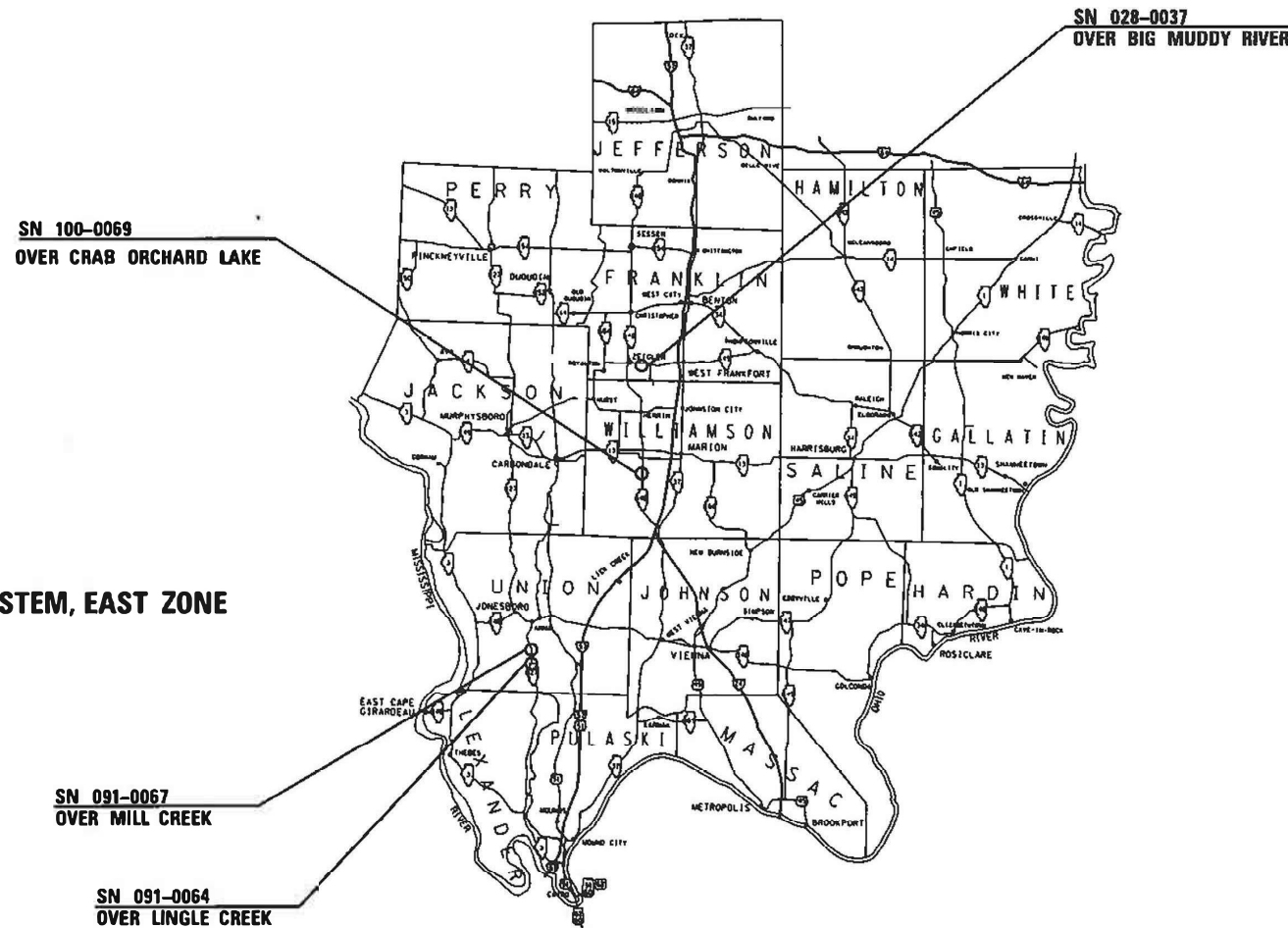
COORDINATE SYSTEM : ILLINOIS COORDINATE SYSTEM, EAST ZONE

POSTED SPEED : 55 MPH

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

PROJECT ENGINEER: MIKE STEPHENSON
PROJECT DESIGNER: AUSTIN HENK

CONTRACT NO. 78848



GROSS LENGTH = 808 FT. = 0.15 MILES
NET LENGTH = 808 FT. = 0.15 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 03-08-2021
[Signature]
REGION FIVE ENGINEER

August 13, 2021
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

August 13, 2021
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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Prepared By: *Charles Stein*
DISTRICT STUDIES & PLANS ENGINEER

Examined By: *Nanette*
DISTRICT LAND ACQUISITION ENGINEER

Examined By: *Conn Nelson*
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *Keelley*
DISTRICT OPERATIONS ENGINEER

Examined By: *KPO*
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: *Doris J. Keelid*
DISTRICT CONSTRUCTION ENGINEER

Examined By: *R. B. ...*
DISTRICT MATERIALS ENGINEER

REV. - MS

USER NAME = henkas	DESIGNED - ASH	REVISED - _____
	DRAWN - ASH	REVISED - _____
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PLOT DATE = 2/23/2021	DATE - 2/22/2021	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNATURES	
SCALE: _____	SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	2
ILLINOIS FED. AID PROJECT				CONTRACT NO. 78848

INDEX OF SHEETS

1	COVER SHEET
2	SIGNATURES
3	GENERAL NOTES, INDEX OF SHEETS, AND STANDARDS
4-7	SUMMARY OF QUANTITIES
8-13	SN 100-0069 Repair Details
14-24	SN 091-0064 Repair Details
25-29	SN 091-0067 Repair Details
* 30-45	SN 028-0037 Repair Details

* INCLUDES SHEET 40A

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:
 ALL HOT MIX ASPHALT 2.016 TONS/CU YD

CONCRETE REMOVAL QUANTITIES ARE ESTIMATED. THE FINAL LOCATIONS AND QUANTITIES WILL BE DETERMINED BY THE ENGINEER AND MARKED ON THE AS-BUILT PLANS.

COMMITMENTS: NONE

Locations	Hot-Mix Asphalt Surface Course
Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix C, N70
AB/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5FG
Friction Aggregate:	C Surface
Mixture Weight:	112 lbs/Sq Yd/in
Quality Management Program:	QCQA
Sublot Size:	NA

STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
701316-12	Lane Closure, 2L, 2W, Bridge Repair for Speeds > 45 MPH
701321-17	Lane Closure, 2L, 2W, Bridge Repair with Barrier
701901-05	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
862001-01	UNINTERRUPTABLE PDWER SUPPLY (UPS)

Locations	Hot-Mix Asphalt Base Course Widening
Mixture Use(s):	Hot-Mix Asphalt Binder Course, N30, IL-19.0L
AB/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 30 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-19.0L
Friction Aggregate:	None
Mixture Weight:	112 lbs/Sq Yd/in
Quality Management Program:	QCQA
Sublot Size:	NA

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	DRAWN - ASH	REVISED - _____
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PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, GENERAL NOTES, STANDARDS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	09 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	3
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

COUNTY:	WILLIAMSON	UNION	UNION	FRANKLIN
ROUTE:	FAP 0726	FAS 1907	FAS 1907	FAP 0873
FUNDING:	100% FEDERAL	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% FEDERAL
LOCATION:	RURAL	RURAL	RURAL	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STRUCTURE			
				100-0069	091-0064	091-0067	028-0037
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	160	80	0	0	80
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,159	419	341	271	128
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	841	220	200	207	214
40604002	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N70	TON	266	98	80	64	24
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	6	6	0	0	0
50102400	CONCRETE REMOVAL	CU YD	24.2	0.0	11.8	0.0	12.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	27	0.0	12.9	0.0	14.1
50300300	PROTECTIVE COAT	SQ YD	1652	6	32	0	1,614
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,860	0	1,160	0	1,700
50800515	BAR SPLICERS	EACH	52	0	12	0	40
52000110	PREFORMED JOINT STRIP SEAL	FOOT	182	0	46	0	136
52100520	ANCHOR BOLTS, 1"	EACH	24	0	0	0	24
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2	0	0	0	2
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	0	0	0	1
63200310	GUARDRAIL REMOVAL	FOOT	36	0	0	0	36
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	2	2	2	2

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REV. - MS

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PLOT SCALE = 100.0000' / in.	DRAWN = ASH	REVISED =		VAR	09 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	4				
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	DATE = 2/22/2021	REVISED =						ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES - CONT

COUNTY:	WILLIAMSON	UNION	UNION	FRANKLIN
ROUTE:	FAP 0726	FAS 1907	FAS 1907	FAP 0873
FUNDING:	100% FEDERAL	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% FEDERAL
LOCATION:	RURAL	RURAL	RURAL	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE
				100-0069	091-0064	091-0067	028-0037
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	2	1	0	1	0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	0	1	0	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	24	6	6	6	6
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	4	1	1	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	24	6	6	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	112	28	28	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	421	92	94	78	157
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	141	31	32	26	52
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5,452	1,179	1,124	906	2,243
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,200	0	413	0	788
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,200	0	413	0	788
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	0	2	0	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	0	2	0	2

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	DATE - 2/22/2021	REVISED +									ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES - CONT

COUNTY:	WILLIAMSON	UNION	UNION	FRANKLIN
ROUTE:	FAP 0726	FAS 1907	FAS 1907	FAP 0873
FUNDING:	100% FEDERAL	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% FEDERAL
LOCATION:	RURAL	RURAL	RURAL	RURAL
	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE
	100-0069	091-0064	091-0067	028-0037

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STRUCTURE 100-0069	STRUCTURE 091-0064	STRUCTURE 091-0067	STRUCTURE 028-0037
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	5,452	1,179	1,124	906	2,243
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	3	0	2	1	0
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1,113	252	260	227	374
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	4	1	1	1	1
X0100021	WASHING AND CLEANING	L SUM	1	1	0	0	0
X0325747	BRIDGE DECK CONCRETE CRACK SEALER	FOOT	1,925	270	35	500	1,120
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	0	1	0	0
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	1,801	390	371	299	741
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	20	18	0	0	2
Z0001901	JACK AND REPOSITION BEARINGS	EACH	2	0	2	0	0
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	965	0	300	0	665
Z0001905	STRUCTURAL STEEL REPAIR	POUND	2566	0	300	0	2,266
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1,610	0	0	0	1,610
Z0012162	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	1,610	0	0	0	1,610

* SPECIALTY ITEM

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	DATE - 2/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78848	

SUMMARY OF QUANTITIES - CONT

COUNTY:	WILLIAMSON	UNION	UNION	FRANKLIN
ROUTE:	FAP 0726	FAS 1907	FAS 1907	FAP 0873
FUNDING:	100% FEDERAL	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% FEDERAL
LOCATION:	RURAL	RURAL	RURAL	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE
				100-0069	091-0064	091-0067	028-0037
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	22	0	0	0	22
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	17	7	8	2	0
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	6	0	0	0	6
Z0041895	POLYMER CONCRETE	CU FT	4.3	4.3	0.0	0.0	0.0
Z0065730	SLOPE WALL SLURRY PUMPING	CU YD	29.5	29.5	0.0	0.0	0.0
X5810101	WATERPROOFING MEMBRANE (SPRAY APPLIED)	SQ YD	1,349	546	536	267	0

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

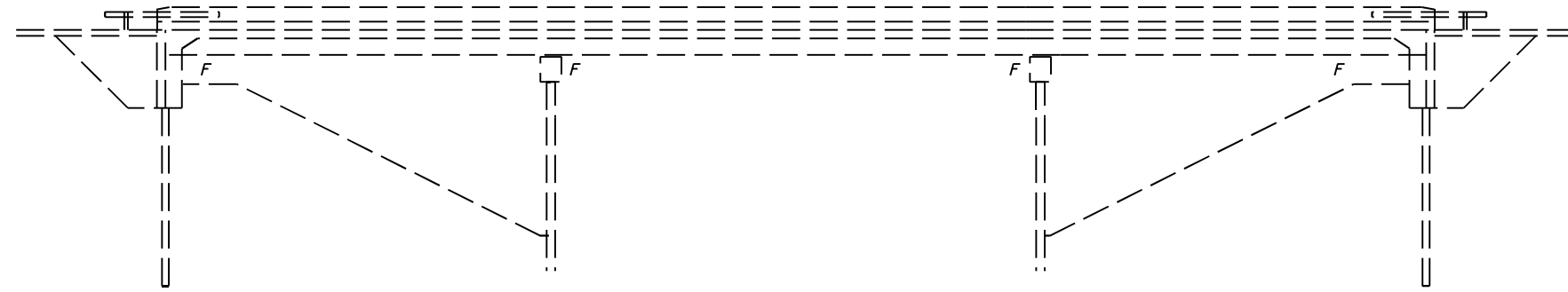
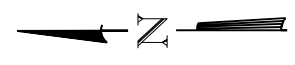
SUMMARY OF QUANTITIES

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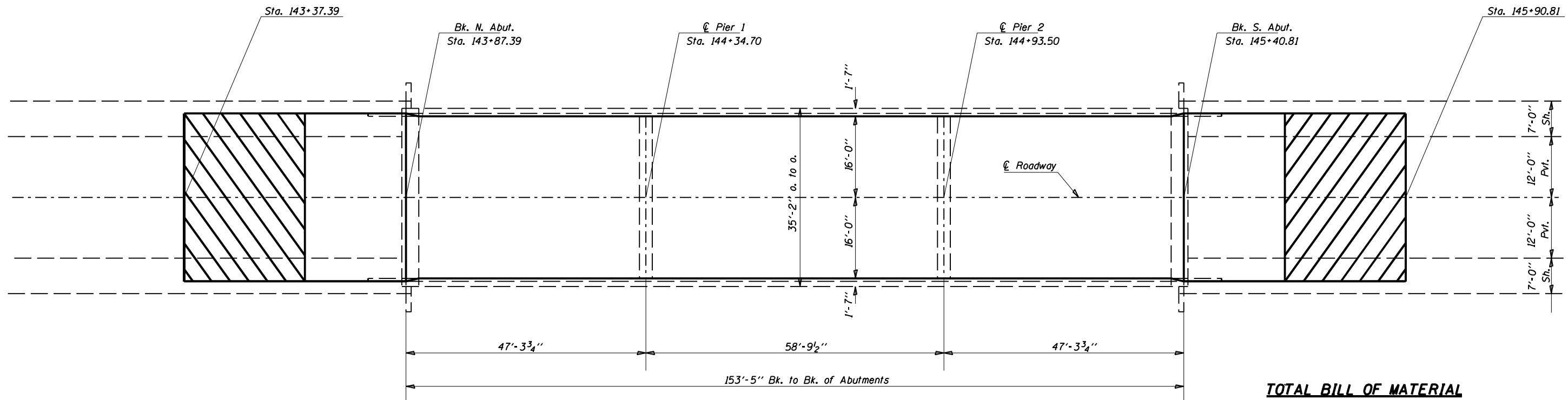
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VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	7
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				

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 materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



ELEVATION



PLAN

LEGEND:

HMA Surface Removal - Butt Joint

SCOPE OF WORK

- Set up TC&P Standard 701316
- Deck Slab Repair (Partial)
- Approach Slab Repair (Partial Depth)
- Replace Pavement Connector (PCC) For Bridge Approach Slab
- Bridge Deck Concrete Crack Sealer
- Apply Spray on Waterproofing
- Apply Tack Coat
- HMA Surface Course
- Slope Wall Repair
- Wash Superstructure including all structural steel and the underside of the concrete deck

DESIGN STRESSES

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)
 $f_y = 50,000$ psi (Struct.) AASHTO M223 Grade 50
 $f_y = 56,000$ psi (Struct.) AASHTO M183



Expires 11-30-2022

David Carl Puzey

08/12/2021

Note: Existing Preformed Joint Seal at North Bridge Approach Pavement connector to be removed and filled with an Expansion Board Filler as approved by the Engineer. Sawcut a 1/4" x 3/4" joint into the new HMA Surface and seal with an Elastic Joint Sealer (Full Width). Cost to be included in the HMA Surface Course.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Surface Course, IL-9.5FG, Mix "C", N70	Ton	98
Bridge Deck Concrete Crack Sealer	Foot	270
Washing and Cleaning	L. Sum	1
Approach Slab Repair (Partial Depth)	Sq. Yd.	18
Deck Slab Repair (Partial)	Sq. Yd.	7
Pavement Connector (PCC) For Bridge Approach Slab	Sq. Yd.	6
Waterproofing Membrane (Spray Applied)	Sq. Yd.	546
Slope Wall Slurry Pumping	Cu. Yd.	29.5
HMA Surface Removal - Butt Joint	Sq. Yd.	220
Bituminous Material (Tack Coat)	Pound	419
Polymer Concrete	Cu. Ft.	4.3
Protective Coat	Sq. Yd.	6
HMA Base Course Widening, 10"	Sq. Yd.	80

**BRIDGE REPAIRS
 IL 148 (FAP-0726)
 OVER CRAB ORCHARD LAKE
 WILLIAMSON COUNTY
 D9 BRIDGE DECK REPAIR 2022-1
 SN 100-0069**

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

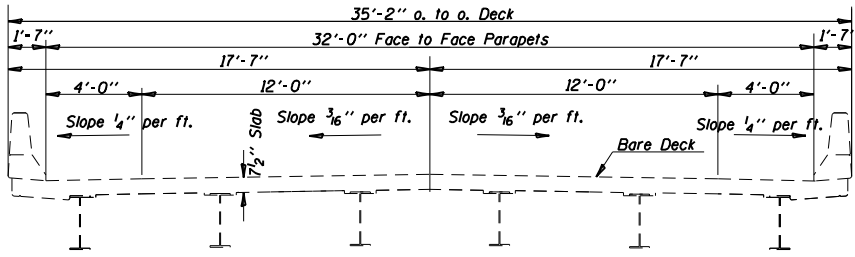
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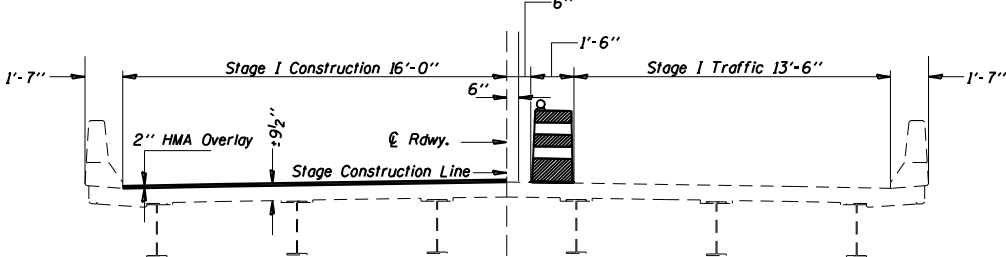
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			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				

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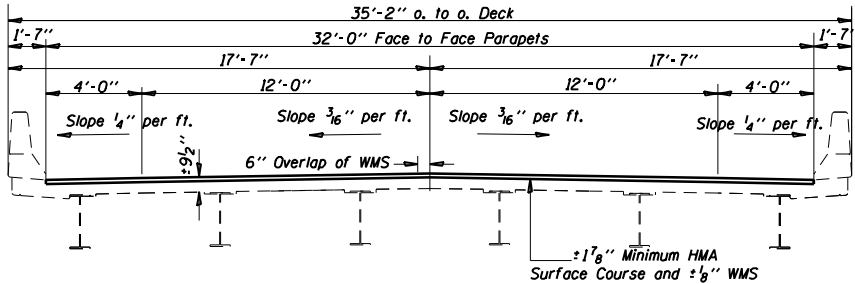
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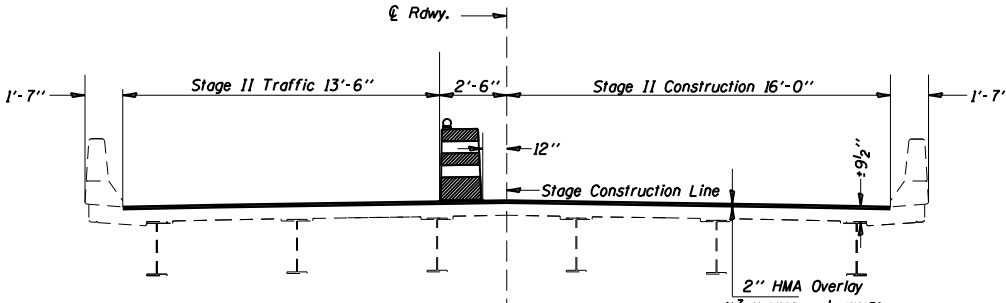
TYPICAL BRIDGE SECTION - EXISTING



STAGE I CONSTRUCTION



TYPICAL BRIDGE SECTION - PROPOSED



STAGE II CONSTRUCTION

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PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISIONS - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SECTION STAGING			
SN 100-0069			
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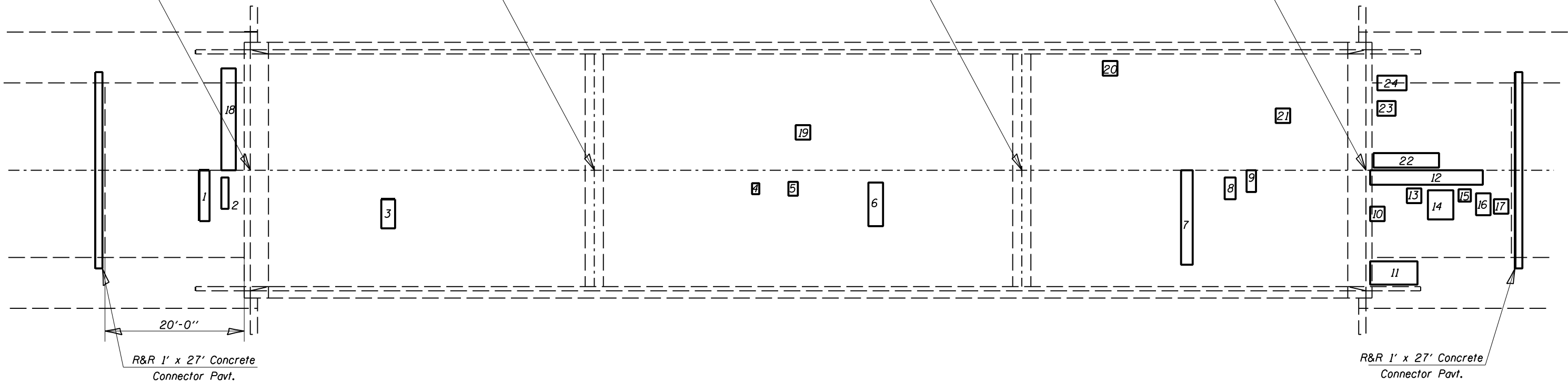
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VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	9
			CONTRACT NO. 78848	
		ILLINOIS FED. AID PROJECT		

Bk. N. Abut.
Sta. 143+87.39

☉ Pier 1
Sta. 144+34.70

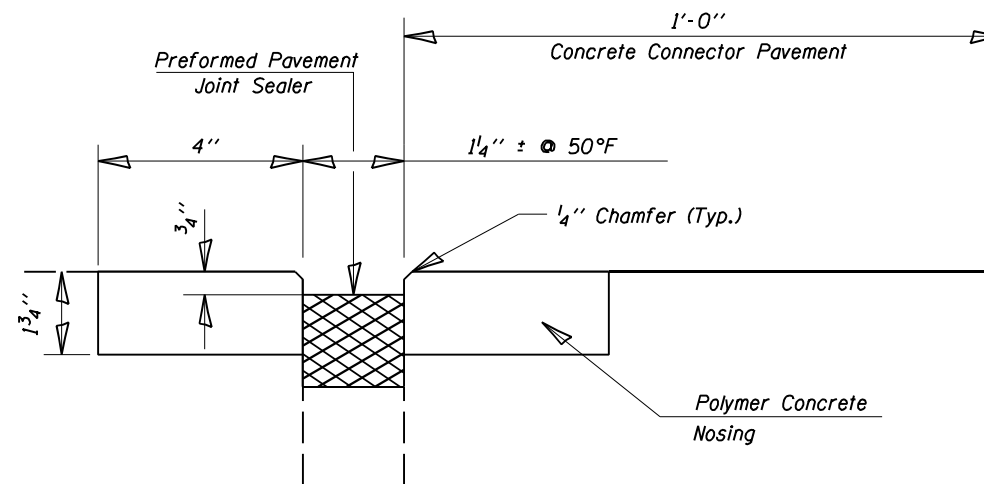
☉ Pier 2
Sta. 144+93.50

Bk. S. Abut.
Sta. 145+40.81



Number	Length (ft)	Width (ft)	Area (Sq. Yd.)
1	7.0	1.4	1.1
2	1.0	4.3	0.5
3	1.9	4.0	0.8
4	1.0	1.5	0.2
5	1.3	1.9	0.3
6	2.0	6.0	1.3
7	1.6	13.0	2.3
8	1.5	3.0	0.5
9	1.3	3.0	0.4
10	2.0	2.0	0.4
11	3.2	6.5	2.3
12	15.5	2.0	3.4
13	2.0	2.0	0.4
14	3.5	4.0	1.6
15	1.7	1.7	0.3
16	2.0	3.0	0.7
17	2.0	2.0	0.4
18	2.0	14.0	3.1
19	2.0	2.0	0.4
20	2.0	2.0	0.4
21	2.0	2.0	0.4
22	9.0	2.0	2.0
23	2.0	2.5	0.6
24	2.0	4.0	0.9

Note: 27 feet of Preformed Pavement Joint Sealer is required at the North PCC Connector, quantity included in the cost of Pavement Connector (PCC) For Bridge Approach Slab.



**SILICONE JOINT SEALER
NORTH PCC CONNECTOR**

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Partial)	Sq. Yd.	7
Approach Slab Repair (Partial Depth)	Sq. Yd.	18
Pavement Connector (PCC) For Bridge Approach Slab	Sq. Yd.	6
Bridge Deck Concrete Crack Sealer	Foot	270
Polymer Concrete	Cu. Ft.	4.3

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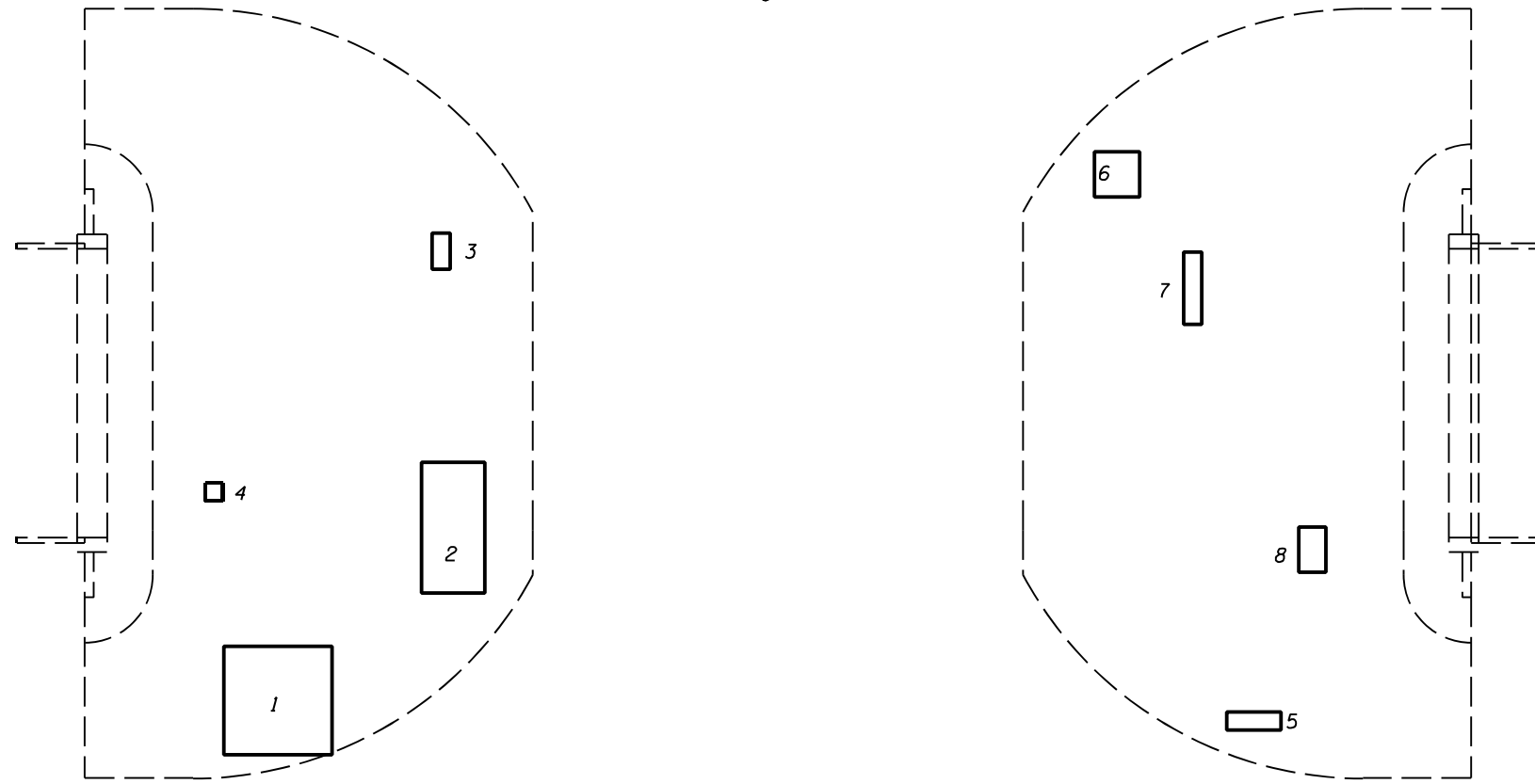
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PLOT DATE = 8/12/2021	CHECKED - MAS	REVISED - _____
	DATE - 2/22/2021	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PATCHING
SN 100-0069**

SCALE: _____ SHEET 4 OF 6 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	11
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				



PLAN
SLOPE WALL

▭ Slope wall Slurry Pumping

Notes: Voids beneath the existing concrete slope walls shall be filled with Controlled Low Strength Material (CLSM) in accordance with the special provision "Slope Wall Slurry Pumping", and as directed by the Engineer. Existing dislodged concrete slope wall may be broken and used to partially fill voids before CLSM is placed. After the Controlled Low Strength Material has set, the slope wall shall be cast in accordance with Section 511 of the Standard Specifications. The locations and quantities of Slope Wall Slurry Pumping are based on a field survey done on December 15, 2020. The exact locations and actual quantities will be determined in the field by the Engineer. The Contractor will be paid for the actual quantity at the contract unit price bid for the item.

SLOPE WALL SLURRY PUMPING

LOCATION	Volume (Cu. Yd.)
1	18.6
2	8.4
3	0.3
4	0.1
5	0.6
6	0.9
7	0.3
8	0.3
Total	29.5

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Slope Wall Slurry Pumping	Cu. Yd.	29.5

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PLOT DATE = 8/12/2021		

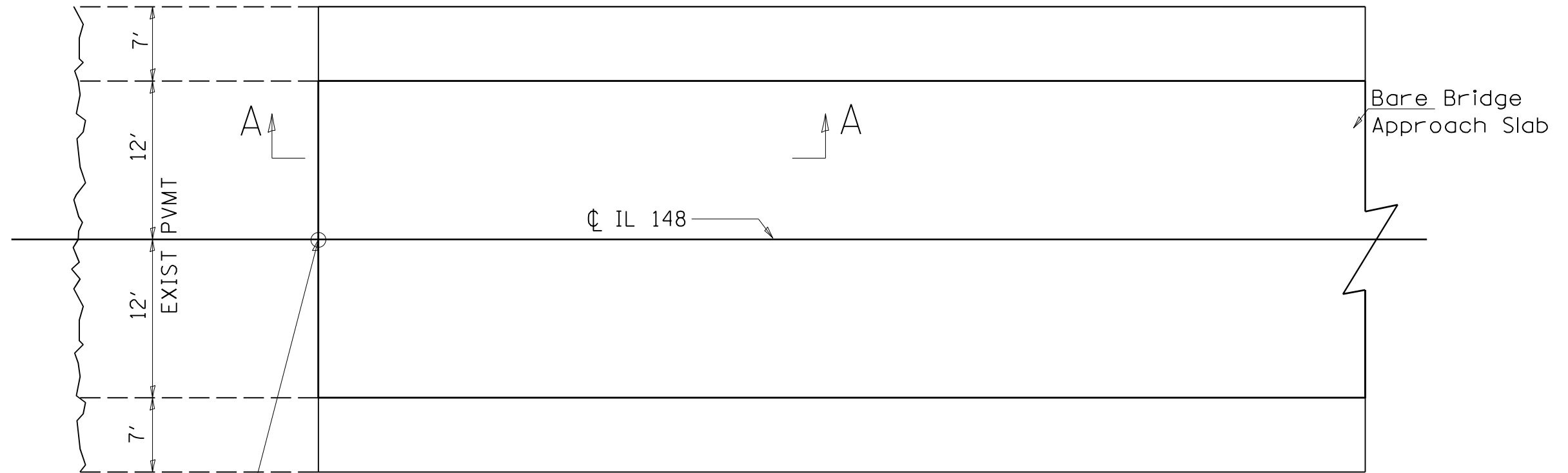
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SILICONE JOINT SEALER & SLOPE WALL REPAIR
SN 100-0069

SCALE: _____ SHEET 5 OF 6 SHEETS STA. _____ TO STA. _____

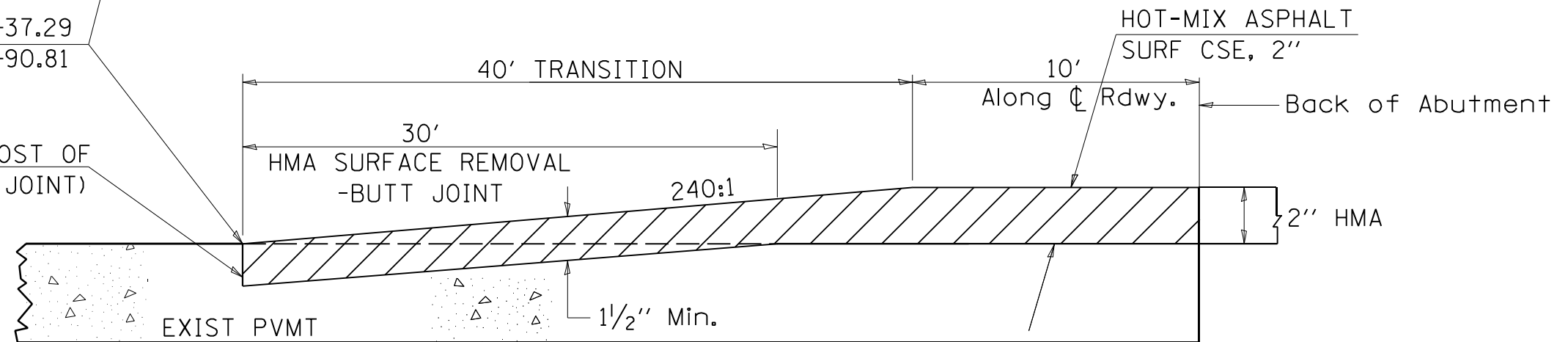
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VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78848	

BUTT JOINT



STA 143+37.29
STA 145+90.81

SAW CUT (INCLUDED IN THE COST OF
HMA SURFACE REMOVAL-BUTT JOINT)



SECTION A-A

REVISIONS	
DRAWN	03-09-17
REVISED	
REVISED	
REVISED	

STD. 9-118

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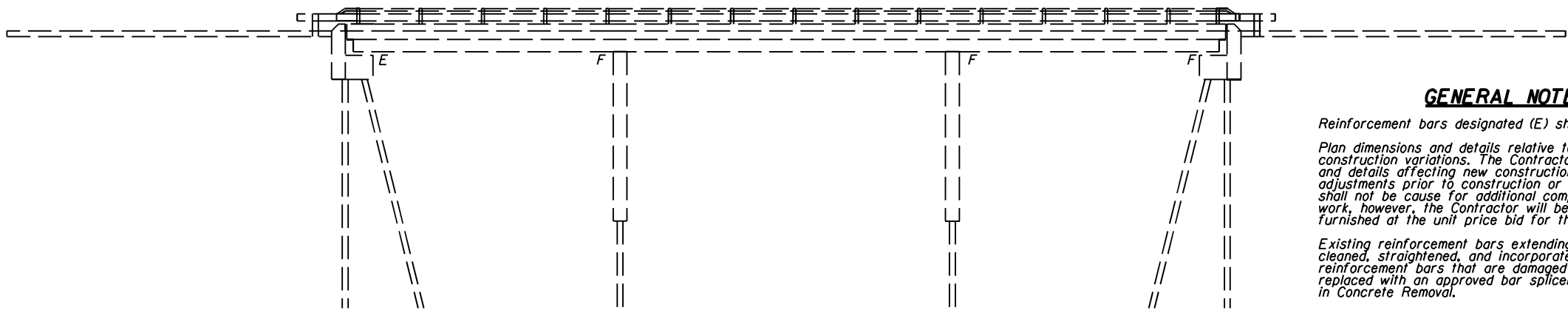
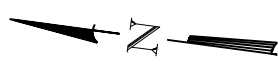
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PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT DETAIL
SN 100-0069**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	13
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				



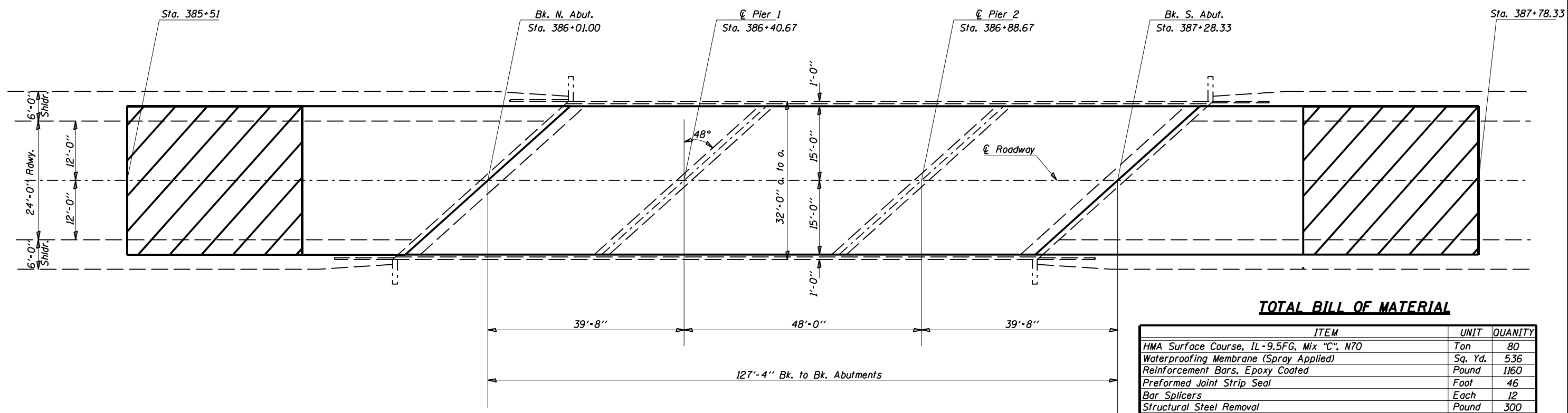
GENERAL NOTES

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 materials. Such variations shall not be cause for additional compensation for a change in scope of 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 the concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included in Concrete Removal.

ELEVATION



PLAN

TOTAL BILL OF MATERIAL

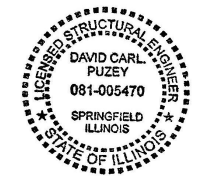
ITEM	UNIT	QUANTITY
HMA Surface Course, IL-9.5FG, Mix "C", N70	Ton	80
Waterproofing Membrane (Spray Applied)	Sq. Yd.	536
Reinforcement Bars, Epoxy Coated	Pound	1160
Preformed Joint Strip Seal	Foot	46
Bar Splicers	Each	12
Structural Steel Removal	Pound	300
Structural Steel Repair	Pound	300
Deck Slab Repair (Partial)	Sq. Yd.	8
Raised Reflective Pavement Marker Removal	Each	2
Concrete Removal	Cu. Yd.	11.8
Concrete Superstructure	Cu. Yd.	12.9
Bridge Deck Concrete Crack Sealer	Foot	35
HMA Surface Removal - Butt Joint	Sq. Yd.	200
Bituminous Material (Tack Coat)	Pound	341
Temporary Concrete Barrier	Foot	412.5
Relocate Temporary Concrete Barrier	Foot	412.5
Protective Coat	Sq. Yd.	32
Jack And Reposition Bearings	EACH	2

SCOPE OF WORK

- Set up TC&P Standard 701321
- Install Temporary Concrete Barrier
- RPM Removal
- Deck Slab Repair (Partial)
- Concrete Removal
- Preformed Joint Strip Seal
- Concrete Superstructure
- Crack Seal
- Apply Spray on Waterproofing
- HMA Surface Removal - Butt Joint
- Apply Tack Coat
- HMA Surface Course
- Structural Steel Removal
- Structural Steel Repair

DESIGN STRESSES

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)
 $f_y = 50,000$ psi (Struct.) AASHTO M222



Expires 11-30-2022

David Carl Puze

08/12/2021

**BRIDGE REPAIRS
 IL 127 (FAS-1907)
 OVER LINGLE CREEK
 UNION COUNTY
 D9 BRIDGE DECK REPAIR 2022-1
 SN 091-0064**

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 SHEET: 14

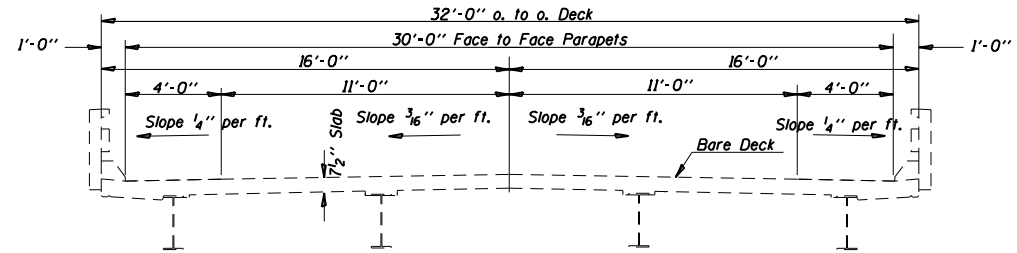
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

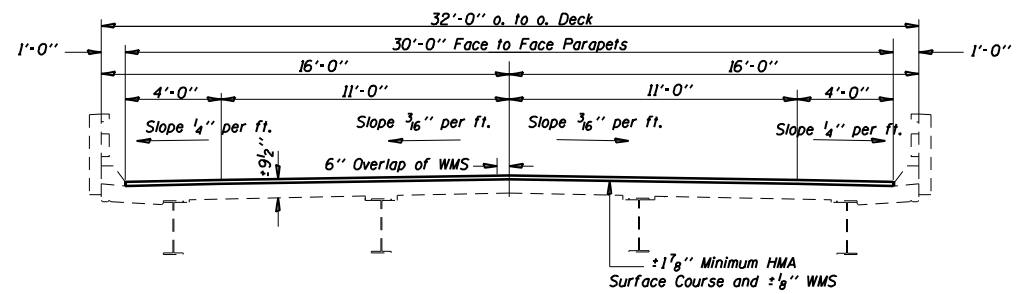
**SN 091-0064
 GENERAL PLAN & ELEVATION**

SCALE: _____ SHEET 1 OF 11 SHEETS STA. _____ TO STA. _____

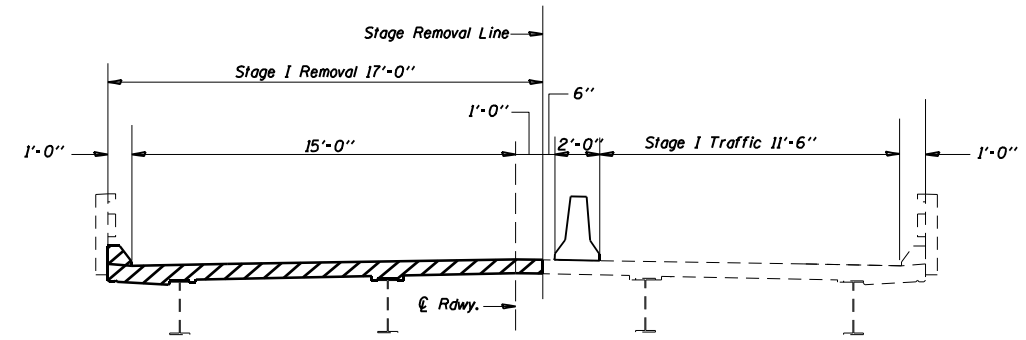
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			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				



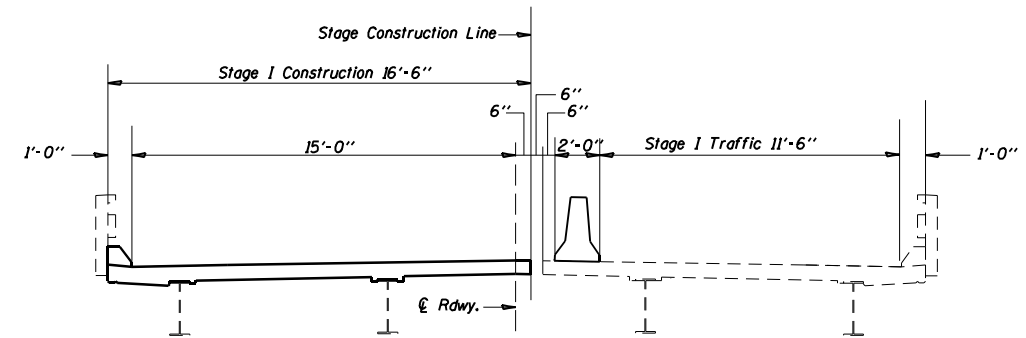
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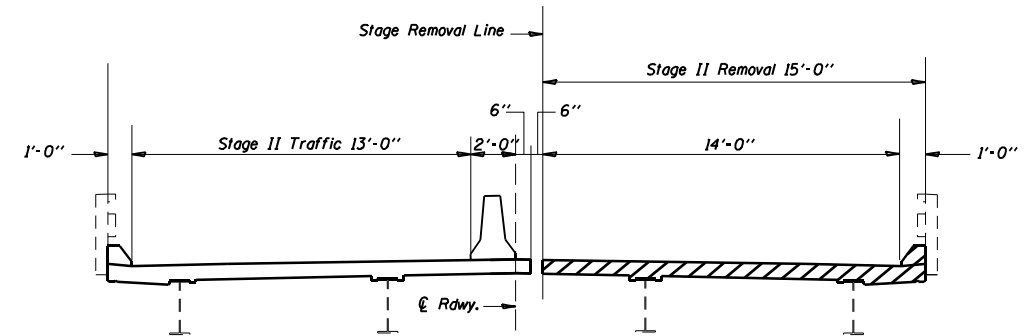
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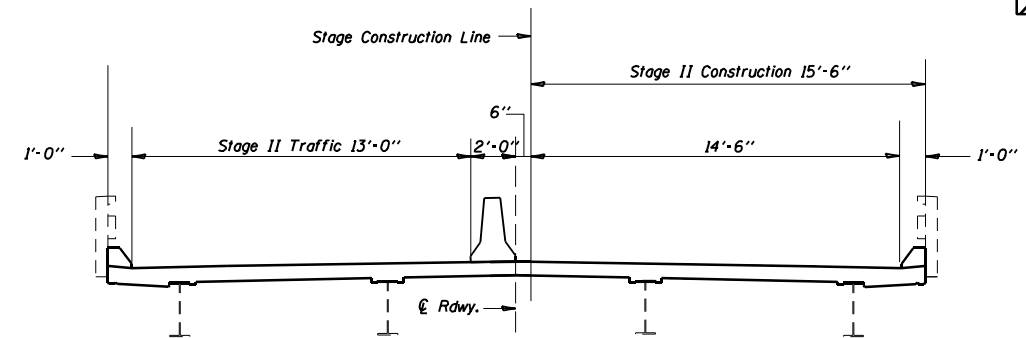
STAGE I REMOVAL
(At joint locations only)



STAGE I CONSTRUCTION
(At joint locations only)



STAGE II REMOVAL
(At joint locations only)



STAGE II CONSTRUCTION
(At joint locations only)

LEGEND:

Concrete Removal

Notes: All Sections looking South

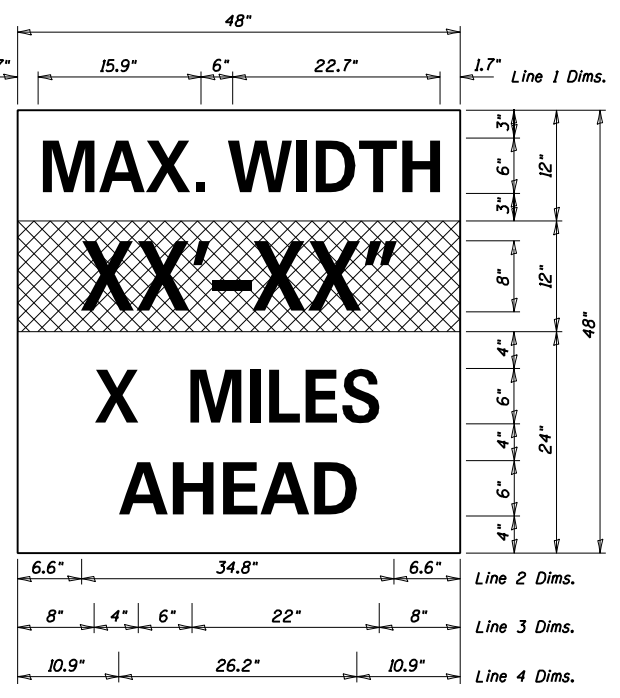
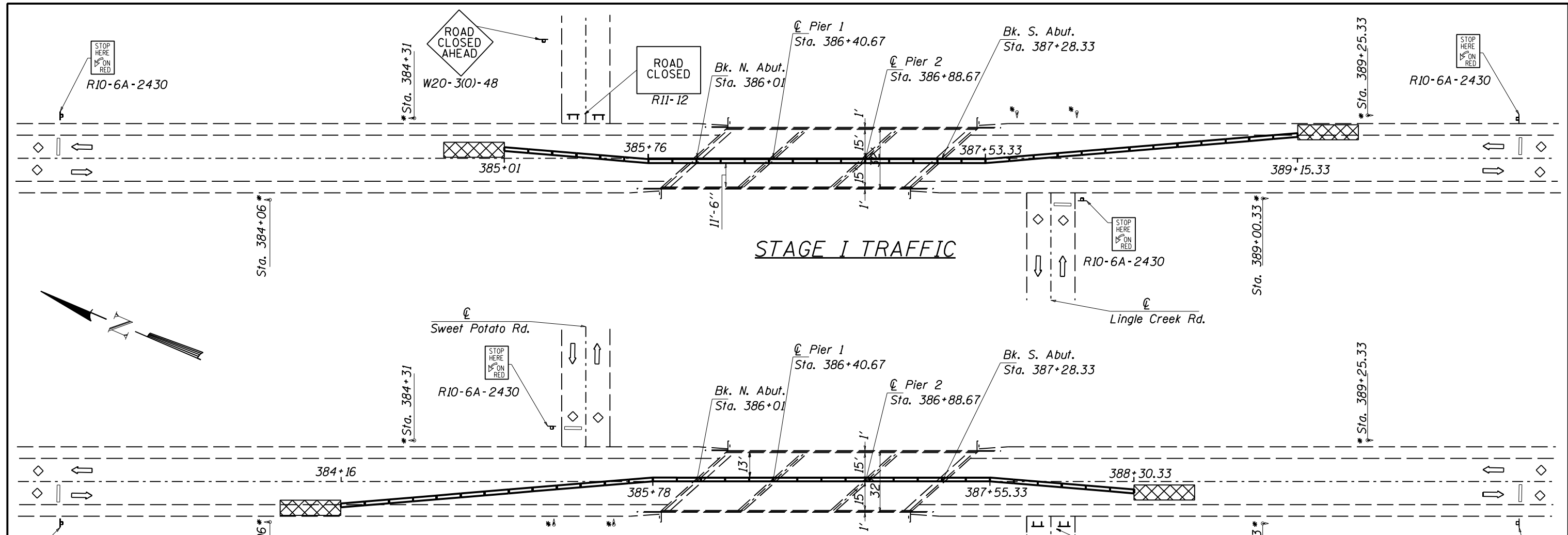
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DRAWN - ASH	REVISIONS - _____	
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PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISIONS - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION STAGING	
SN 091-0064	
SCALE: _____	SHEET 2 OF 11 SHEETS
STA. _____	TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78848	



W12-1103
 W12-1103, No Border
 "MAX WIDTH" 6D, No Border, Black on White
 "XX'-XX'" 8D, No Border, Black on Orange
 "X MILES" 6D, No Border, Black on White
 "AHEAD" 6D, No Border, Black on White

Notes for Max Width Sign:

1. Install a Max Width Sign each direction on IL 127 to give traffic approaching work zone enough advance notice to change routes if needed. Exact locations as directed by engineer.
2. The contractor shall furnish the posts and erect the signs at the locations directed by the engineer. All signs shall be post mounted.
3. The noted work, including signs, posts, hardware and labor shall be included in the contract unit price, each, for Traffic Control and Protection, Std. 701321, no other compensation will be allowed.
4. The width shown on the W12-1103 sign shall be 18" less than what is shown in the staged lane widths or as directed by the Engineer.
5. The "X" MILES AHEAD will be determined by the engineer.

* See Contract Special Provisions for "TEMPORARY BRIDGE TRAFFIC SIGNALS".

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LEGEND:
 Impact Attenuator

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN STAGING
 SN 091-0064**

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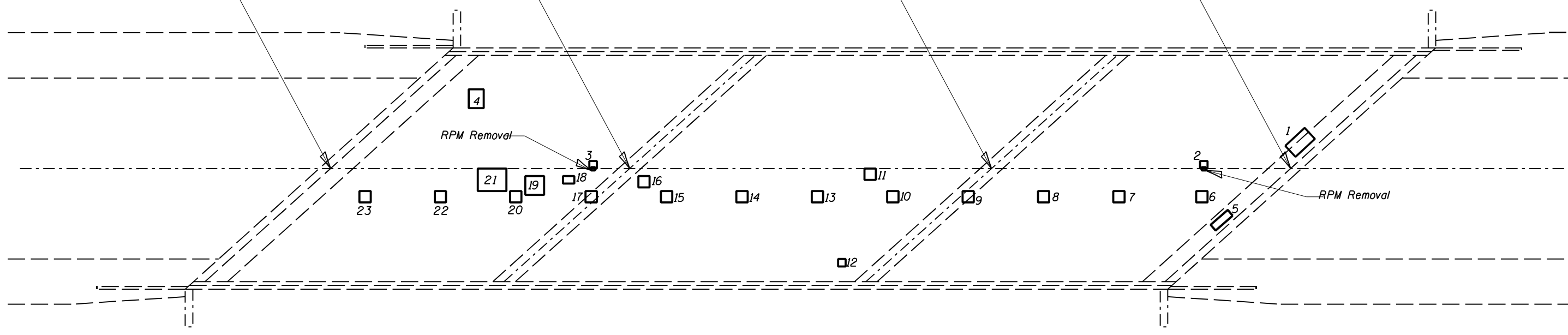
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VAR	D9 BRIDGE DECK REPAIR 2022-1	VAR	45	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78848	

Bk. N. Abut.
Sta. 386+01.00

☉ Pier 1
Sta. 386+40.67

☉ Pier 2
Sta. 386+88.67

Bk. S. Abut.
Sta. 387+28.33



Number	Length (ft)	Width (ft)	Area (Sq. Yd.)
1	2.0	3.5	0.8
2	1.0	1.0	0.1
3	1.0	1.0	0.1
4	2.0	2.5	0.6
5	3.0	1.0	0.3
6	1.5	1.5	0.3
7	1.5	1.5	0.3
8	1.5	1.5	0.3
9	1.5	1.5	0.3
10	1.5	1.5	0.3
11	1.5	1.5	0.3
12	1.0	1.0	0.1
13	1.5	1.5	0.3
14	1.5	1.5	0.3
15	1.5	1.5	0.3
16	1.5	1.5	0.3
17	1.5	1.5	0.3
18	1.5	1.0	0.2
19	2.5	2.5	0.7
20	2.0	1.5	0.3
21	3.8	3.0	1.3
22	1.5	1.5	0.3
23	1.5	1.5	0.3

Note: The partial depth patches located 3' ± off centerline roadway are the result of temporary bridge rail anchors being left in place during the construction of the existing deck. These 6" long anchors shall be removed if loose or cleaned and remain in place as per the special provision Deck Slab Repair.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Partial)	Sq. Yd.	8
Raised Reflective Pavement Marker Removal	Each	2
Bridge Deck Concrete Crack Sealer	Foot	35

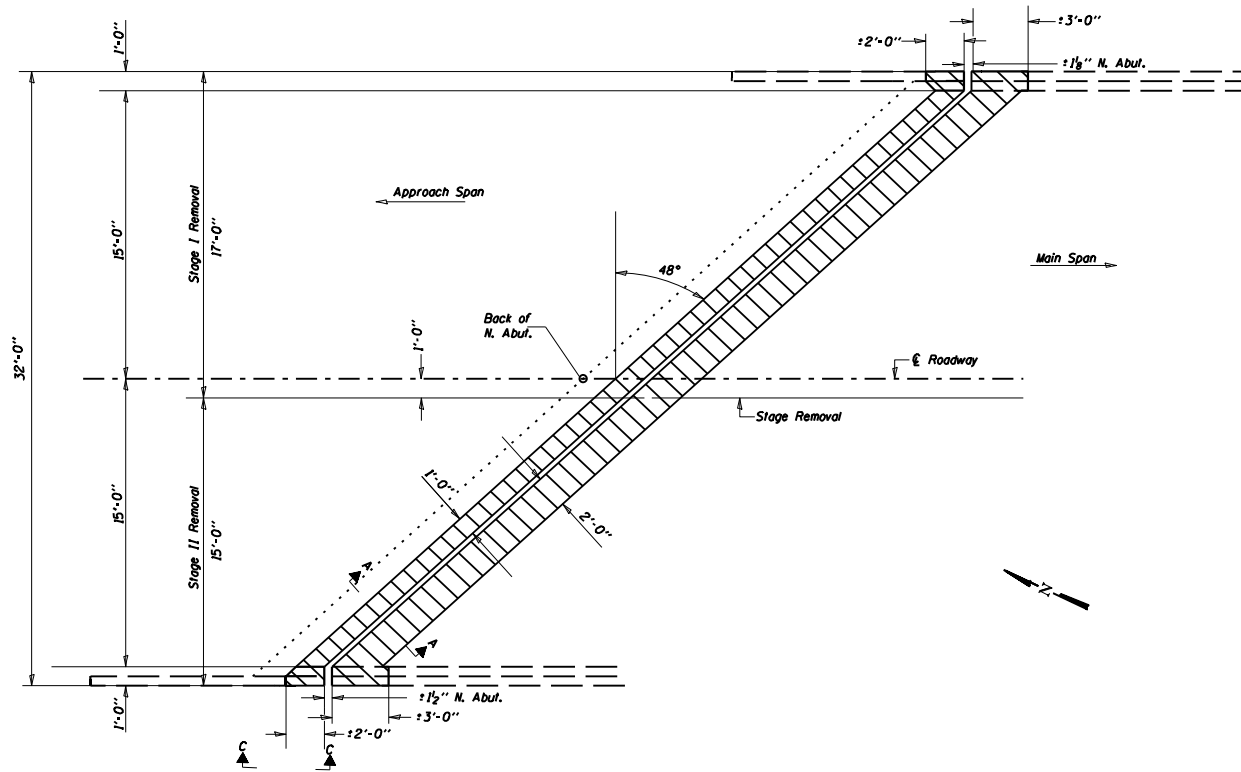
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PLOT DATE = 8/12/2021		

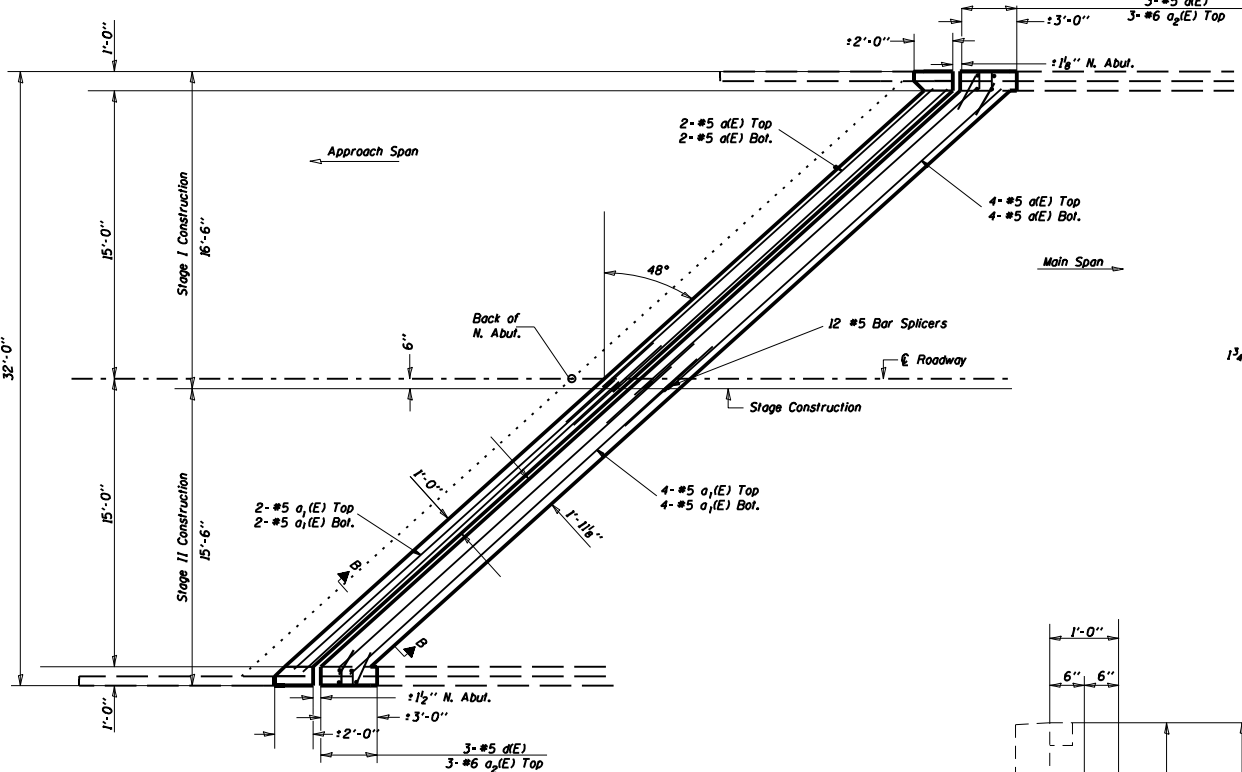
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PATCHING SN 091-0064	
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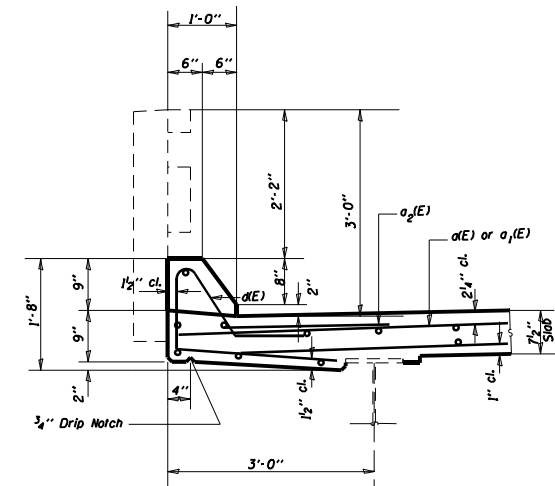
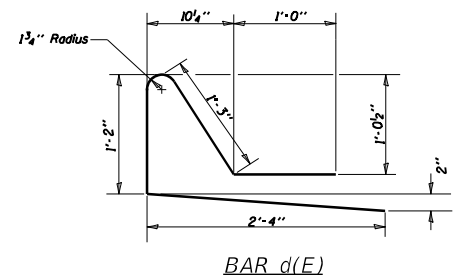
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			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				



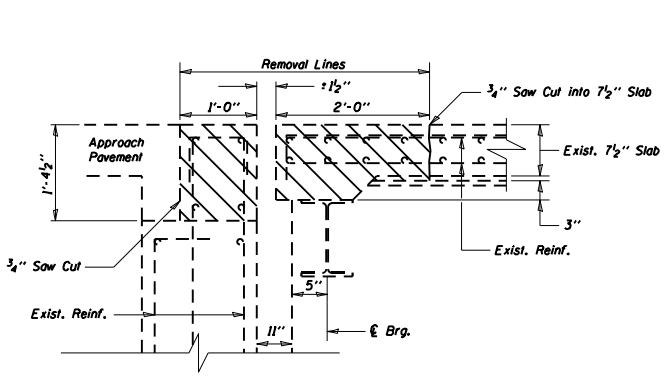
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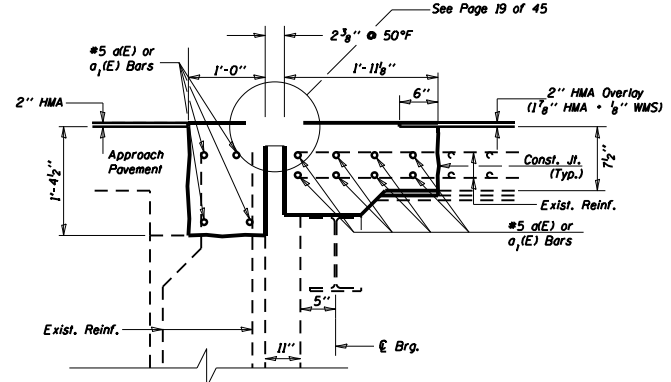
**JOINT @ N. ABUTMENT
SHOWING NEW CONCRETE**



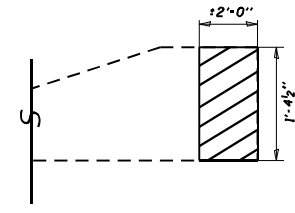
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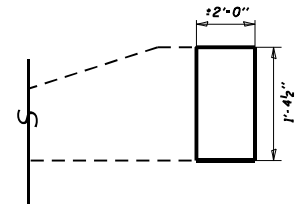
**SECTION A-A
Dimensions at Right Angles**



**SECTION B-B
Dimensions at Right Angles**



SECTION C-C



SECTION D-D

BILL OF MATERIAL (NORTH ABUT.)

Bar	No.	Size	Length	Shape
a(E)	24	#5	23'-3"	—
a1(E)	24	#5	20'-3"	—
a2(E)	6	#6	3'-0"	—
d(E)	6	#5	5'-9"	└
Bar Splicer			Each	12
Concrete Superstructure			Cu. Yd.	6.4
Concrete Removal			Cu. Yd.	5.9
Reinforcement Bars, Epoxy Coated			Pound	1160

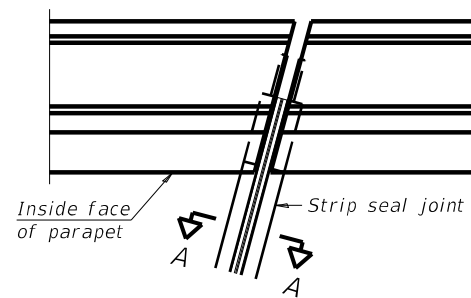
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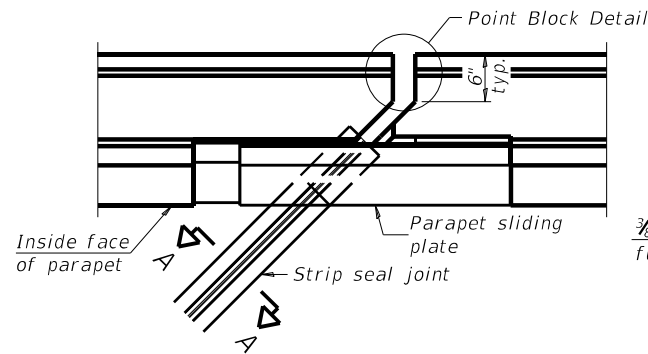
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

JOINT RECONSTRUCTION DETAILS			
SN 091-0064			
SCALE: _____	SHEET 4	OF 11 SHEETS	STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				

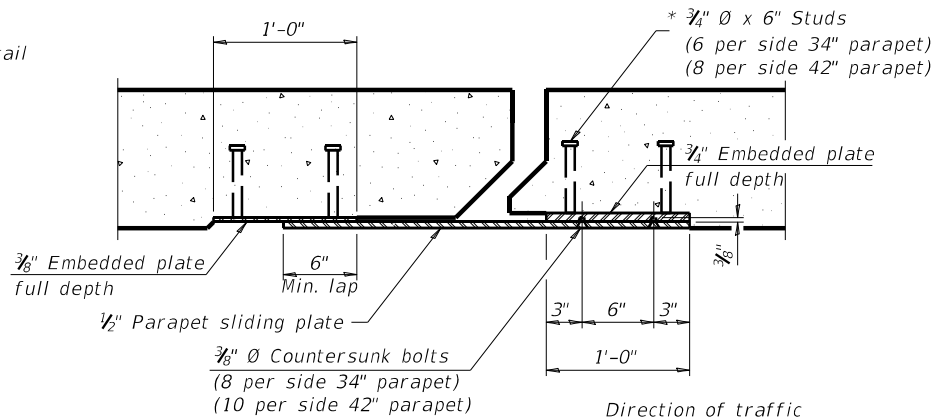


FOR SKEWS $\leq 30^\circ$



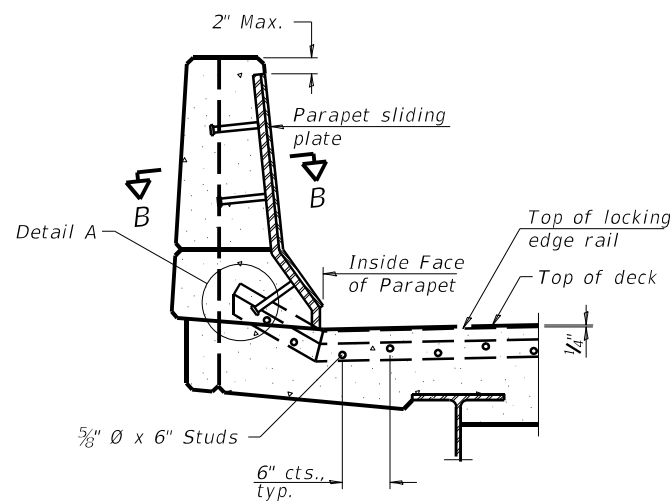
FOR SKEWS $> 30^\circ$

PLAN AT PARAPET



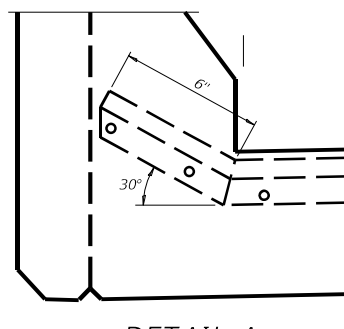
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
 Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
 34" F-shape barrier shown, 42" F-shape similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. Such adjustments shall be at no additional cost to the State.

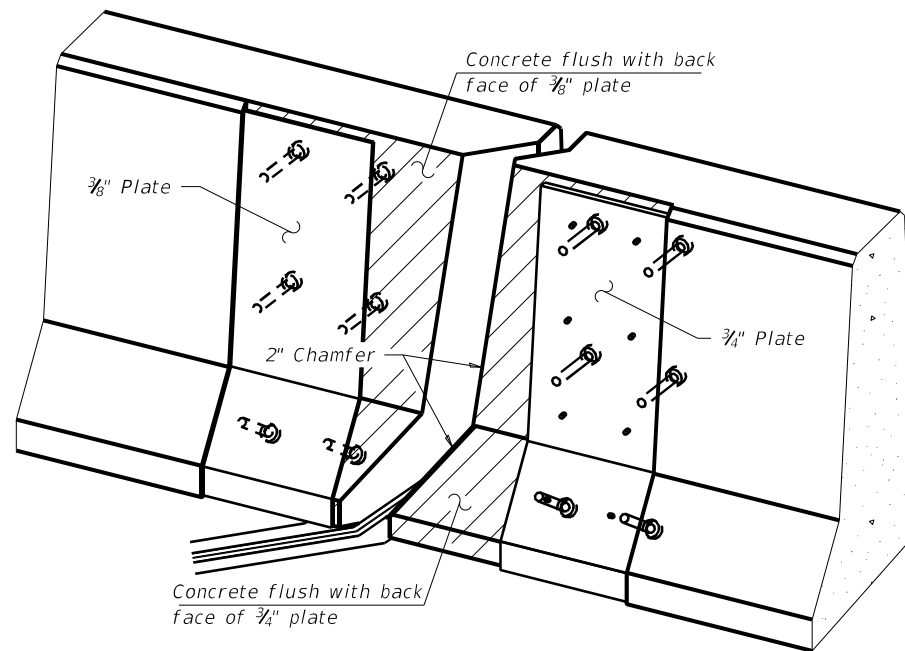


ELEVATION AT PARAPET

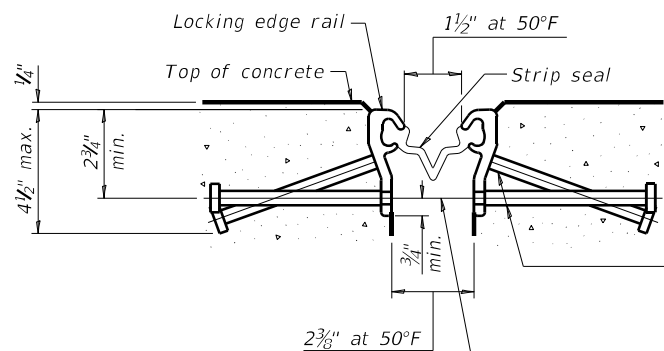
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A
North Abutment



TRIMETRIC VIEW
(Showing embedded plates only)



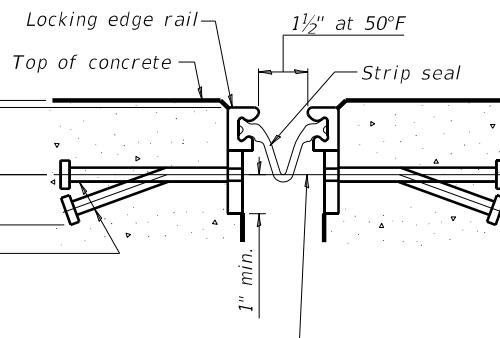
SHOWING ROLLED RAIL JOINT

* $\frac{5}{8}$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

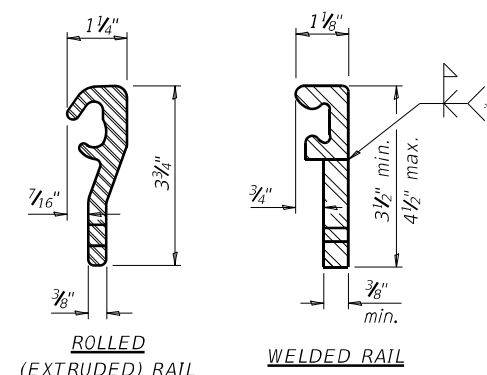
$\frac{3}{8}$ " ϕ threaded rods in $\frac{7}{16}$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

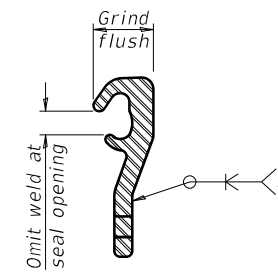


SHOWING WELDED RAIL JOINT



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	46

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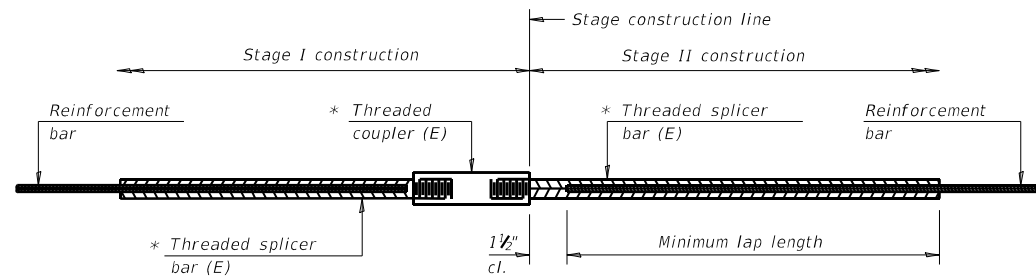
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PLOT DATE = 8/12/2021	CHECKED - MAS	REVISED - _____
	DATE - 2/22/2021	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS
SN 091-0064

SCALE: _____ SHEET 5 OF 11 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	19
CONTRACT NO. 78848				
ILLINOIS FED. AID PROJECT				

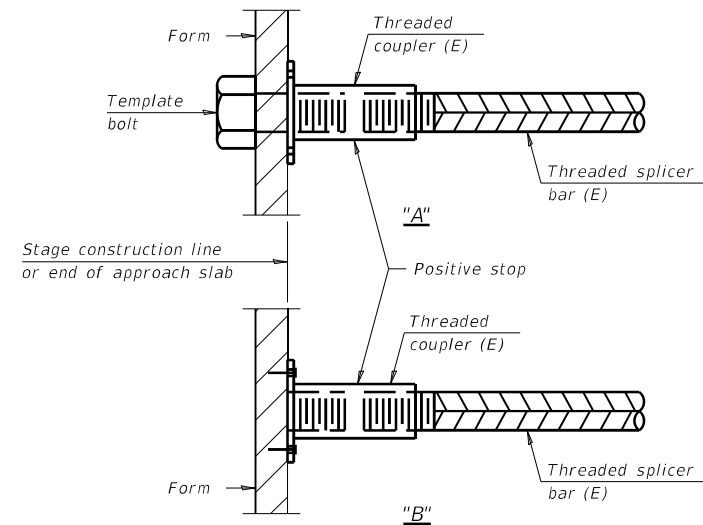


STANDARD BAR SPLICER ASSEMBLY

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

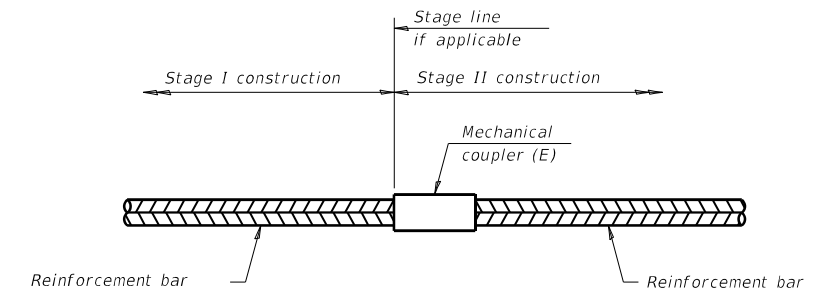
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck (North Joint)	#5	12	3'-0"
Deck (South Joint)	#5	8	3'-0"



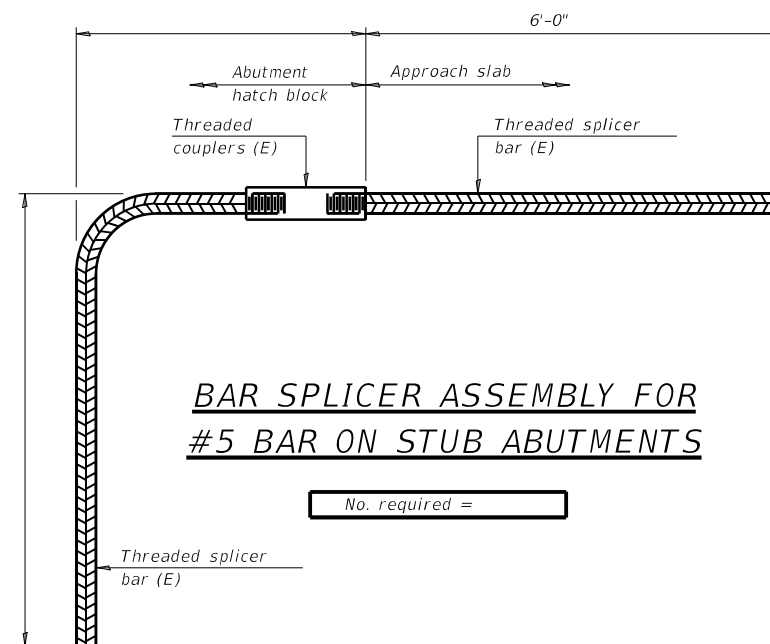
INSTALLATION AND SETTING METHODS

"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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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.

BAR SPLICER ASSEMBLY DETAILS
IL 127 OVER LINGLE CREEK
F.A.S. 1907 - D9 BRIDGE DECK REPAIR 2022-1
UNION COUNTY
STRUCTURE NO. 091-0064

BSD-1 2-17-2017

M:\E:_Default\...
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 OFFICE: ...
 SHEET: ...

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DRAWN - ASH	REVISIONS - _____	
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PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISIONS - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS
SN 091-0064

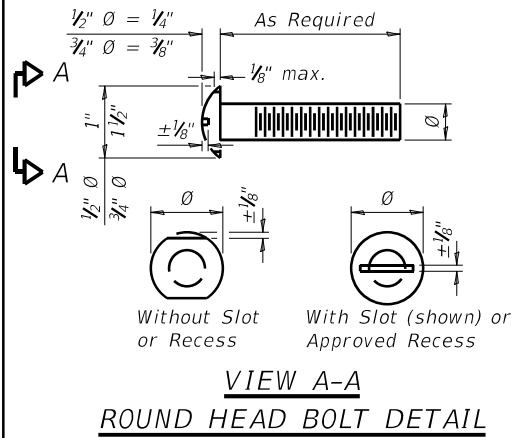
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	20
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				

This sheet is included to show details for reattaching the existing steel railing.

Notes:

For multi-span bridges, sufficient 1/4" x 6" x 1'-5" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type T-1.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



2-1/2" Ø x 6" Round Head Bolts with locknut & flat washer
 3/8" Ø Holes in hollow structural section may be drilled in the field.

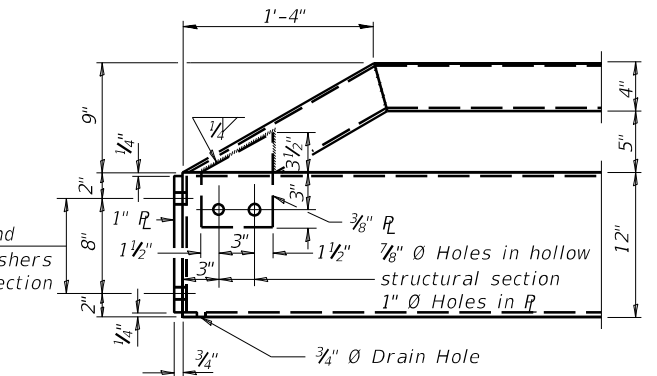
2-3/4" Ø x 6" Round Head Bolts with locknut & flat washer
 7/8" Ø Holes in hollow structural section may be drilled in the field.

SPLICE DIMENSIONS

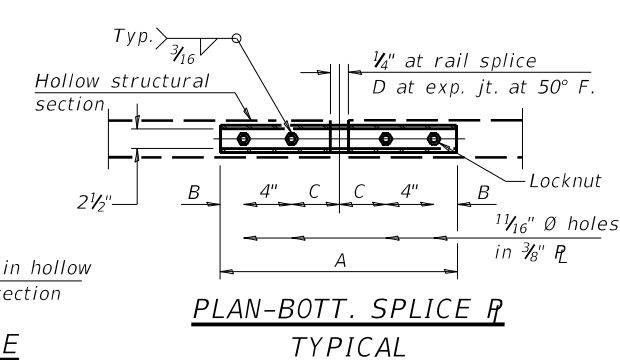
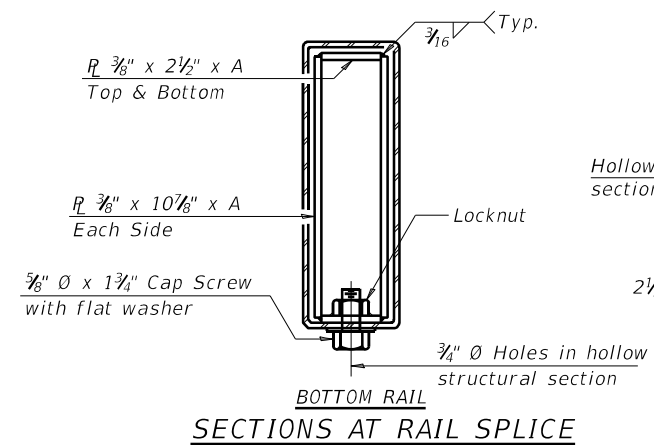
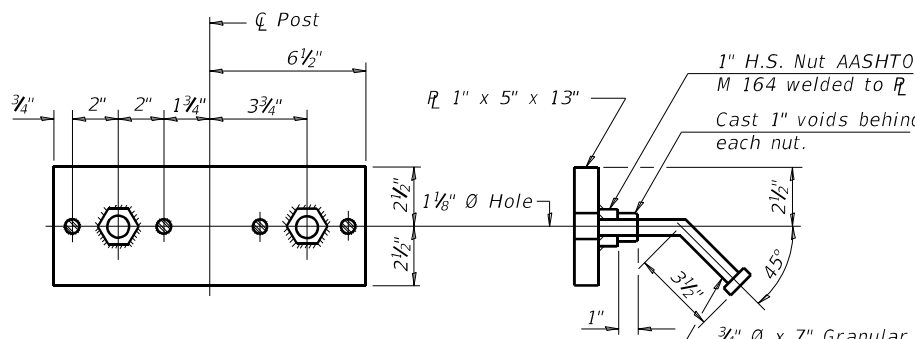
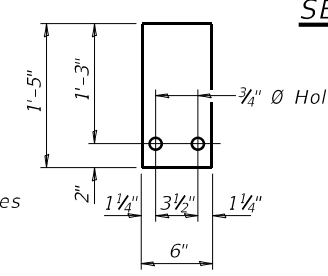
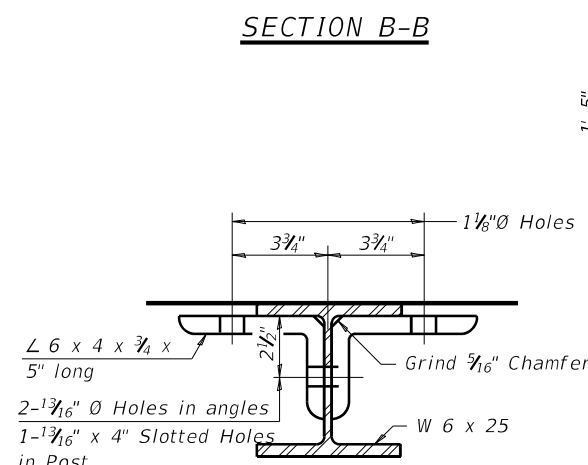
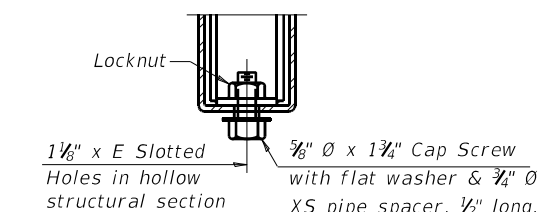
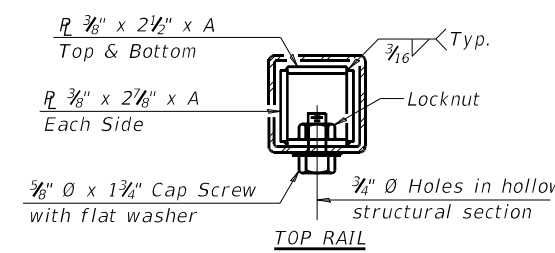
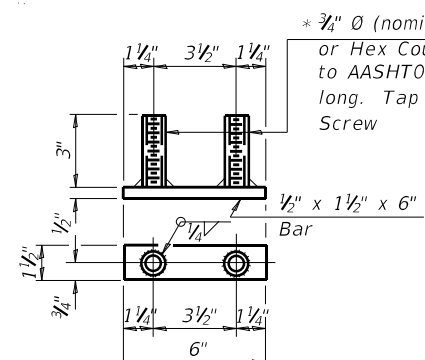
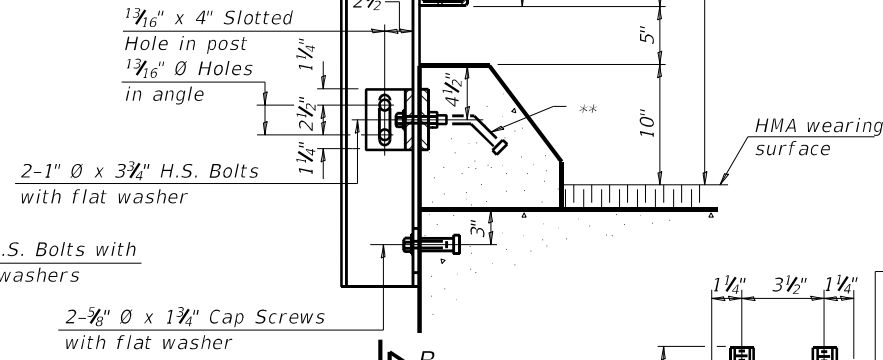
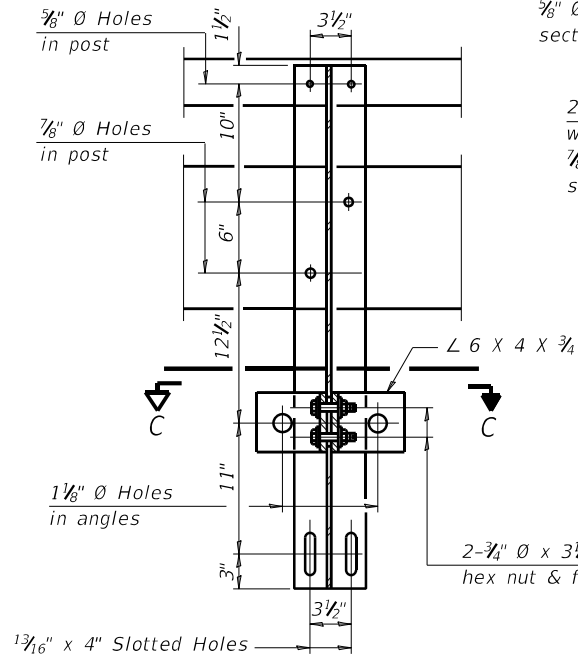
T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	

T = Total movement at expansion joint as shown on the design plans.

1 1/8" Ø Holes for 1" Ø x 4" Round Head Bolts. Provide 2 flat washers & locknuts for guard rail connection shown on Hwy. Std. 631026 or BLR 27-1.



* Threaded areas shall be plugged or blocked off during casting of beam.



MASH 2016 Test Level	2
NHCRP 350 Test Level	2
Max Post Spacing (ft)	9'-6"
Railing Weight (plf)	70
Railing Require CVN	yes

R-24A 2-17-2017

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type T-1	Foot	

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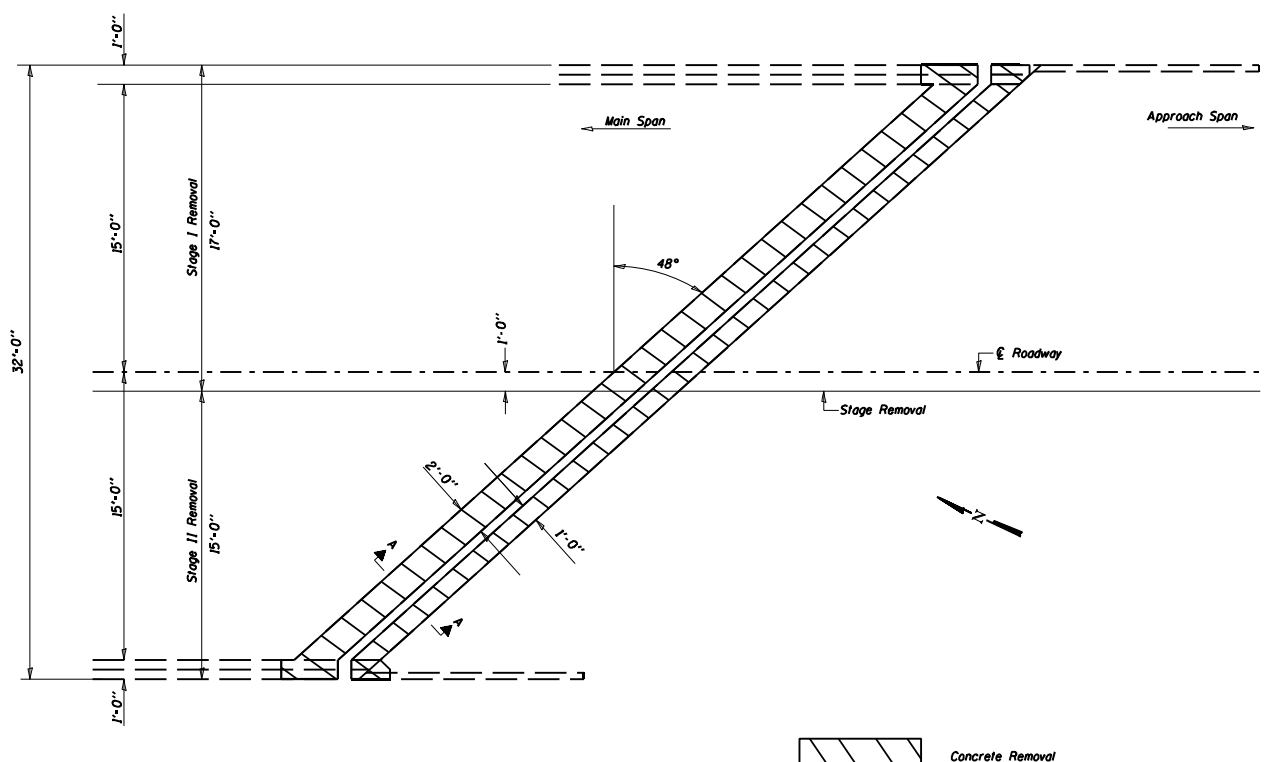
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CHECKED - MAS	REVISOR -	
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

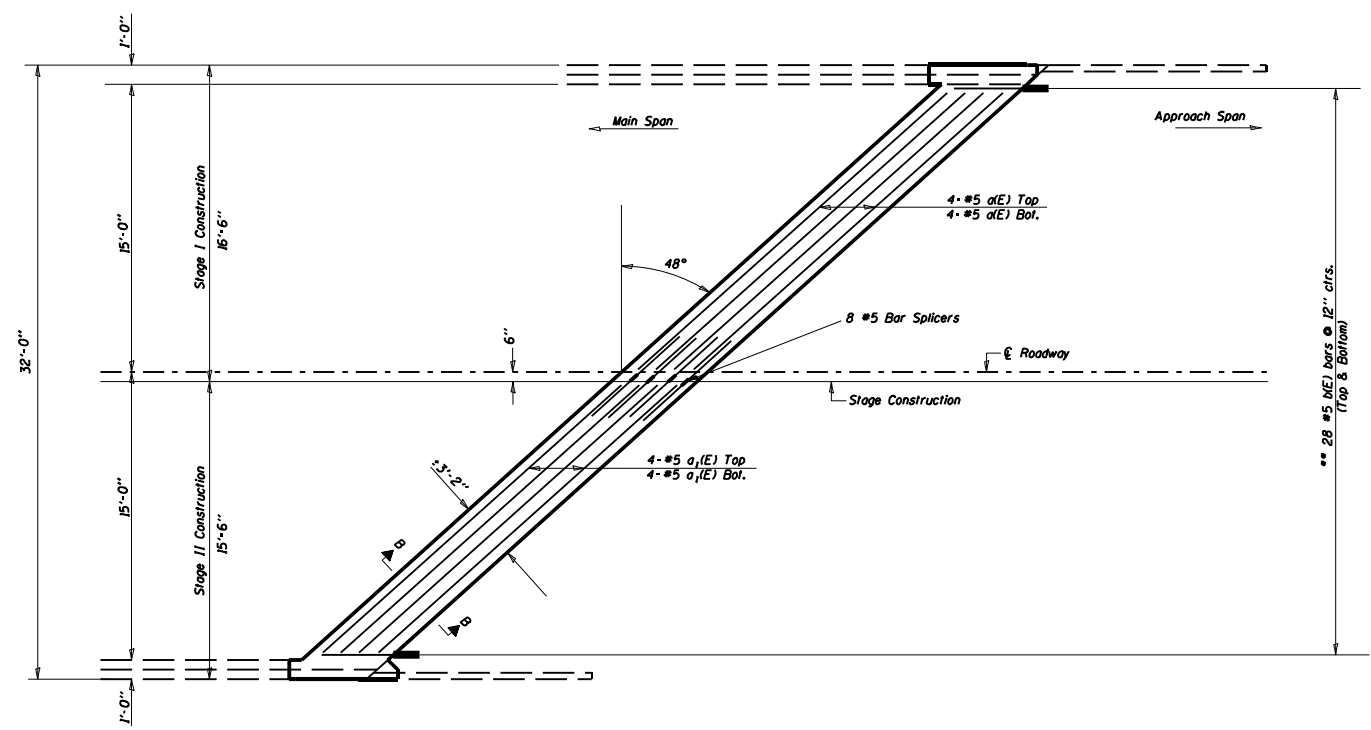
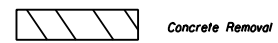
STEEL RAILING, TYPE T-1
 STRUCTURE NO. 091-0064

SHEET 7 OF 11 SHEETS

F.A. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	21
CONTRACT NO. 78848				
ILLINOIS FED. AID PROJECT				



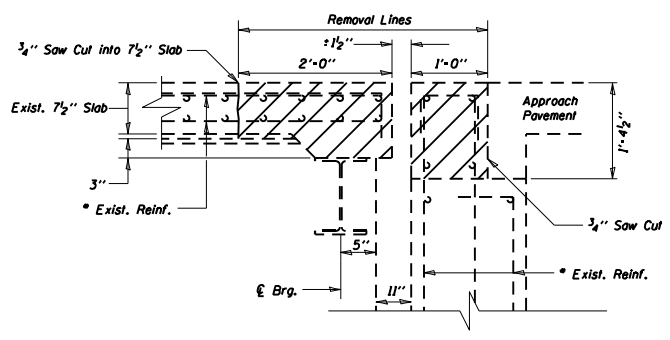
**JOINT @ S. ABUTMENT
SHOWING CONCRETE REMOVAL**



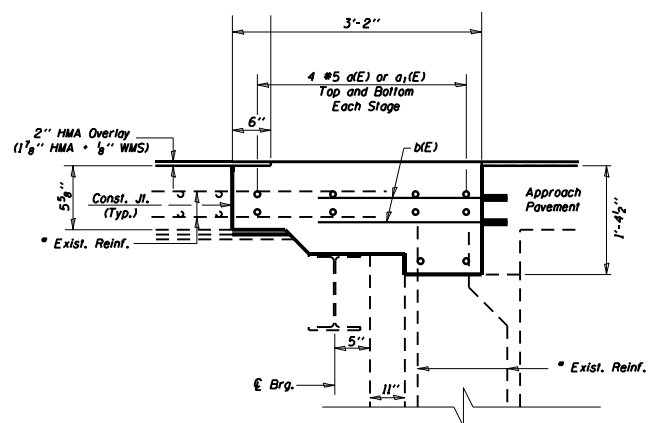
**JOINT @ S. ABUTMENT
SHOWING NEW CONCRETE**

Notes:

- ** Epoxy grout b(E) bars in 1/8" dia. x 9" minimum drilled holes according to Section 584 of the Standard Specifications. Cost included in Reinforcement Bars Epoxy Coated.
- * Existing longitudinal, transverse, and vertical reinf. extending into the removed area shall be cleaned, straightened and incorporated into the new construction.



**SECTION A-A
Dimensions at Right Angles**



**SECTION B-B
Dimensions at Right Angles**

BILL OF MATERIAL (SOUTH ABUT)

Bar	No.	Size	Length	Shape	
a(E)	8	#5	23'-3"	——	
a1(E)	8	#5	20'-3"	——	
b(E)	56	#5	3'-6"	——	
Bar Splicer				Each	8
Concrete Superstructure				Cu. Yd.	6.5
Concrete Removal				Cu. Yd.	5.9
Reinforcement Bars, Epoxy Coated				Pound	570

USER NAME = porterc	DESIGNED - ASH	REVISIONS -
PLOT SCALE = 10.0000' / in.	DRAWN - ASH	REVISIONS -
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	DATE - 2/22/2021	REVISIONS -

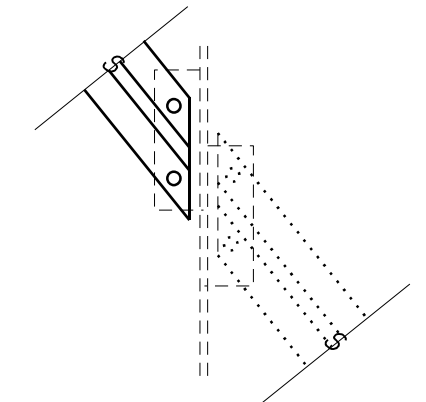
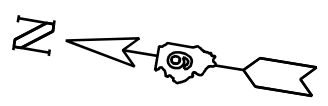
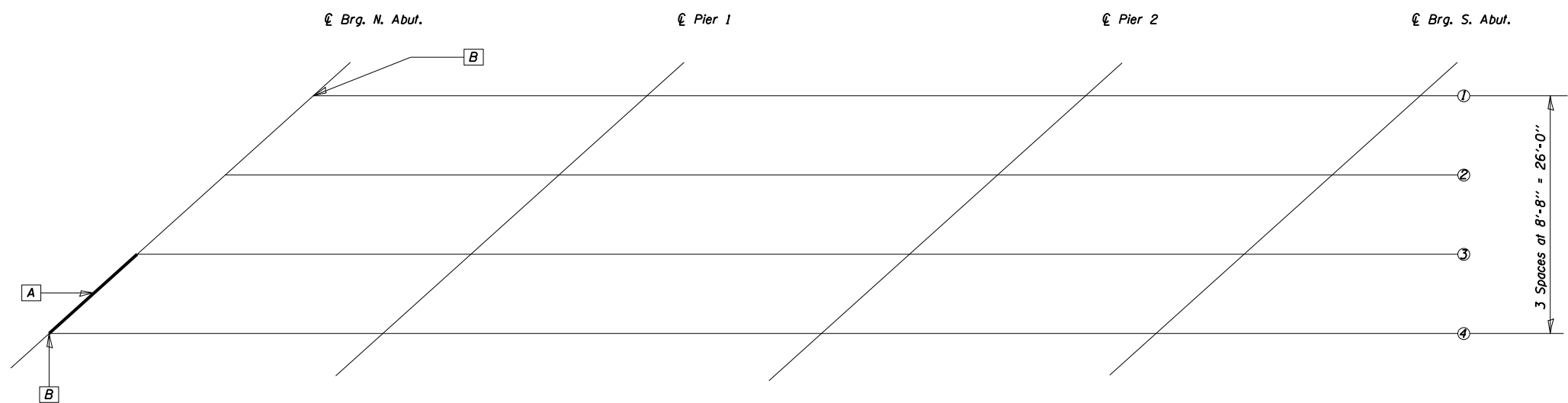
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT ELIMINATION DETAILS
SN 091-0064**

SCALE: _____ SHEET 8 OF 11 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	22
				CONTRACT NO. 78848
		ILLINOIS	FED. AID PROJECT	

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FRAMING PLAN

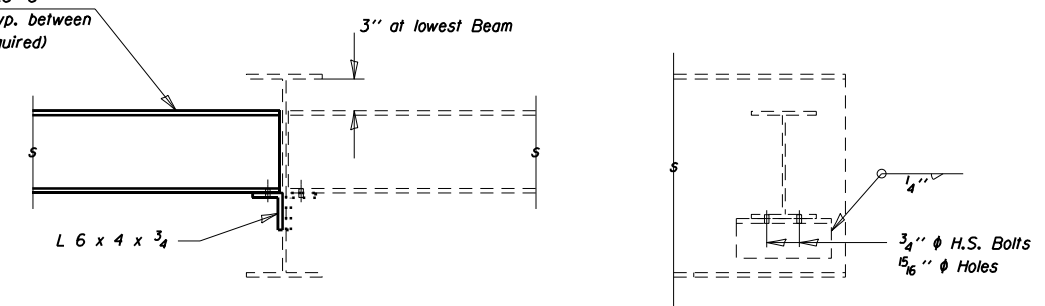
- A** - Remove and replace diaphragm and clip angles.
- B** - Jack and reposition bearings at N. abutment, both fascia beams.

PLAN OF DIAPHRAGM R&R

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Removal	Pound	300
Structural Steel Repair	Pound	300
Jack and Reposition Bearings	Each	2

New W10x33x8'-8"
Diaphragm Typ. between
beams (1 Required)



DIAPHRAGM

DIAPHRAGM & BEARING DETAIL
F.A.S. RT. 1907 (IL-127)
SEC. D9 BRIDGE DECK REPAIR 2022-1
UNION COUNTY
STRUCTURE NO. 091-0064

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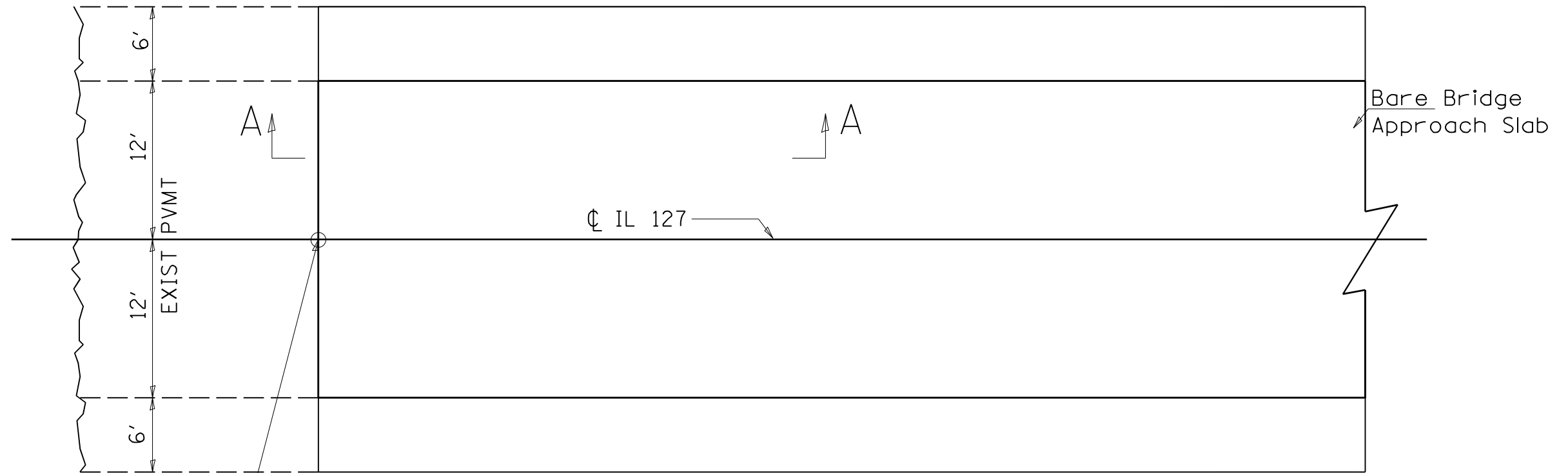
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PLOT DATE = 8/12/2021		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 091-0064	
DIAPHRAGM & BEARING DETAILS	
SCALE: _____	SHEET 10 OF 11 SHEETS STA. _____ TO STA. _____

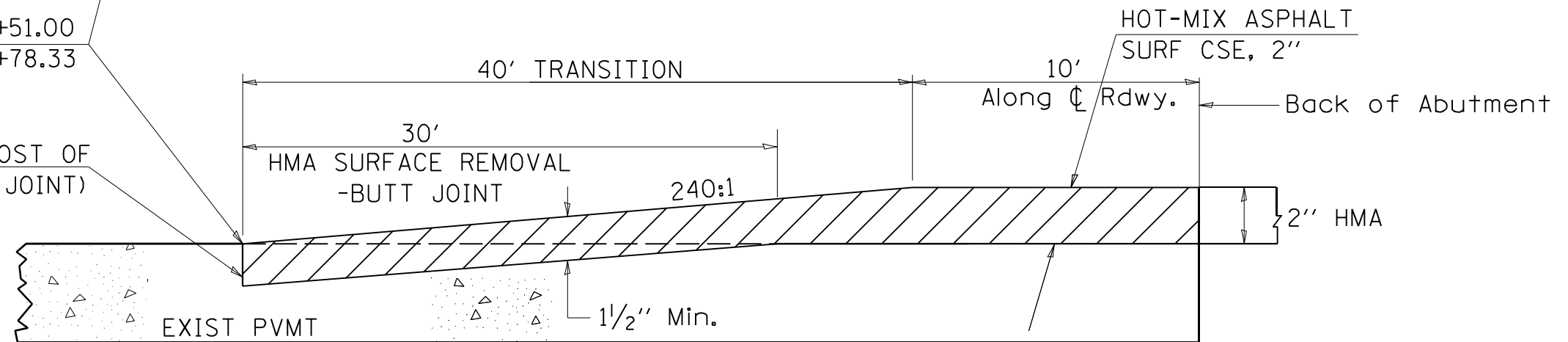
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VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	23
			CONTRACT NO. 78848	
		ILLINOIS	FED. AID PROJECT	

BUTT JOINT



STA 385+51.00
STA 387+78.33

SAW CUT (INCLUDED IN THE COST OF
HMA SURFACE REMOVAL-BUTT JOINT)



SECTION A-A

REVISIONS	
DRAWN	03-09-17
REVISED	
REVISED	
REVISED	

STD. 9-118

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

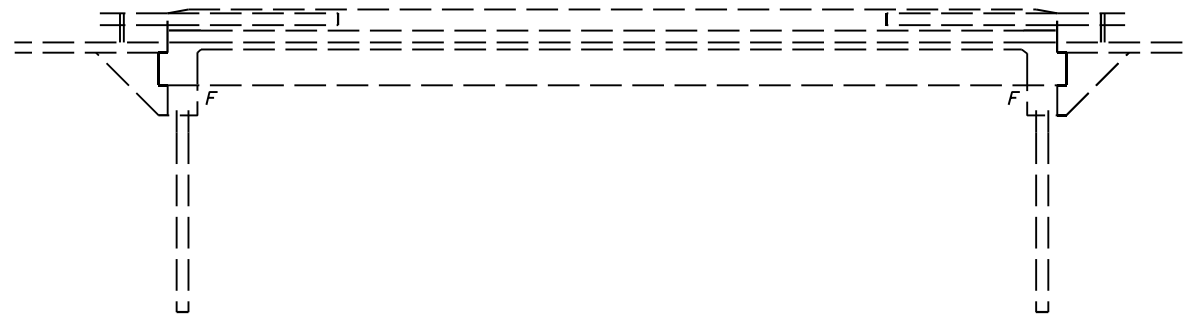
**BUTT JOINT DETAIL
SN 091-0064**

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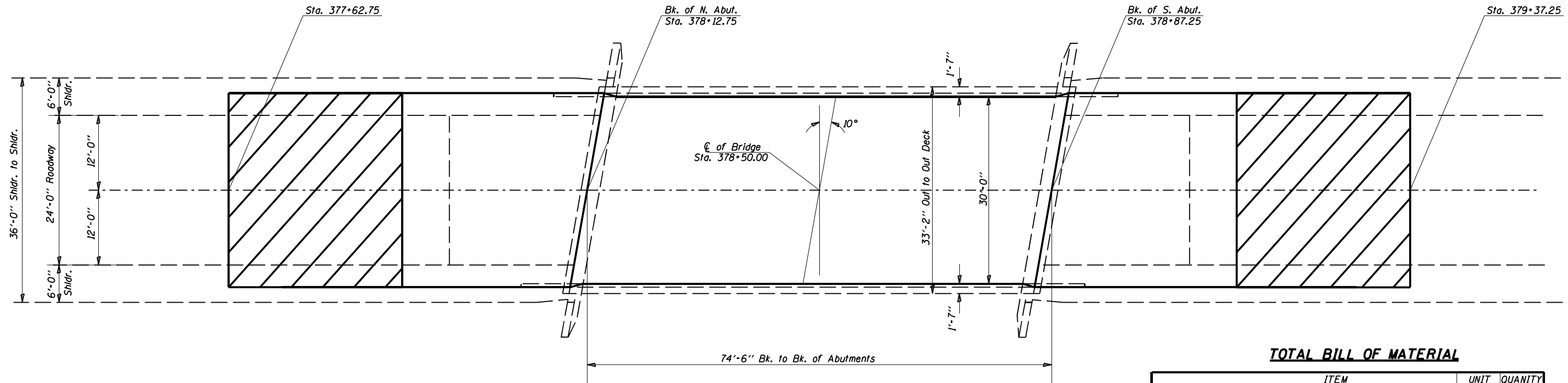
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VAR	09 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	24
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				

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 materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



ELEVATION



PLAN

LEGEND:

HMA Surface Removal - Butt Joint

SCOPE OF WORK

- Set up TC&P Standard 701316
- RPM Removal
- Bridge Deck Patching
- Apply Crack Sealant
- Apply Spray on Waterproofing
- Apply Tack Coat
- HMA Surface Course

DESIGN STRESSES

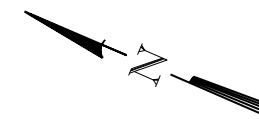
- $f'_c = 3,500$ psi
- $f_y = 60,000$ psi (Reinf.)
- $f_y = 50,000$ psi (M223) Structural Steel
- $f_y = 36,000$ psi (M183) Structural Steel



Expires 11-30-2022

David Carl Puzey

08/12/2021



TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Surface Course, IL-9FG, Mix "C", N70	Ton	64
Bridge Deck Concrete Crack Sealer	Foot	500
Deck Slab Repair (Partial)	Sq. Yd.	2
Waterproofing Membrane (Spray Applied)	Sq. Yd.	267
Raised Reflective Pavement Marker Removal	Each	1
Bituminous Materials (Tack Coat)	Pound	271
HMA Surface Removal - Butt Joint	Sq. Yd.	207

**BRIDGE REPAIRS
 IL 127 (FAS-1907)
 OVER TRIBUTARY TO MILL CREEK
 UNION COUNTY
 D9 BRIDGE DECK REPAIR 2022-1
 SN 091-0067**

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SN 091-0067
 GENERAL PLAN & ELEVATION

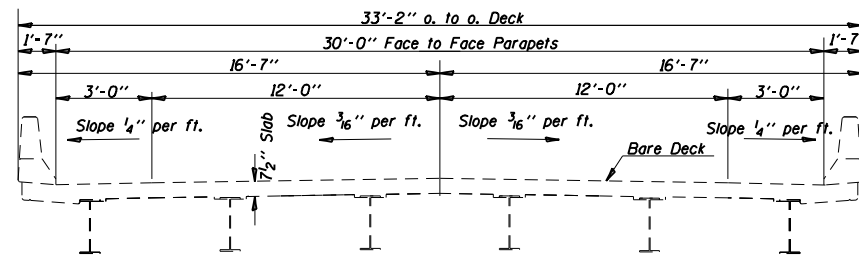
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78848			ILLINOIS FED. AID PROJECT	

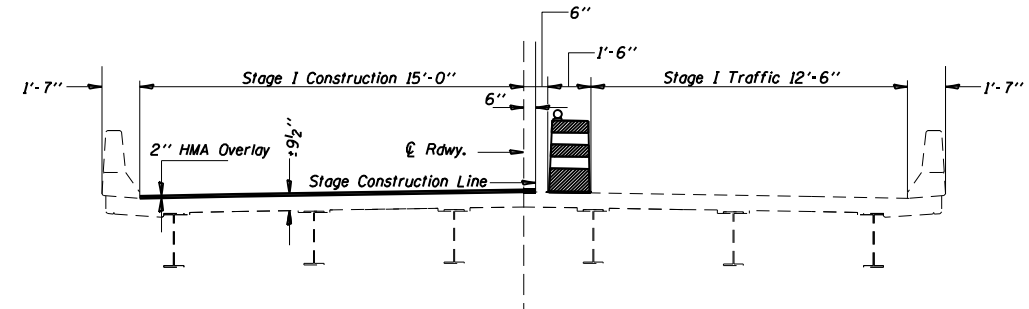
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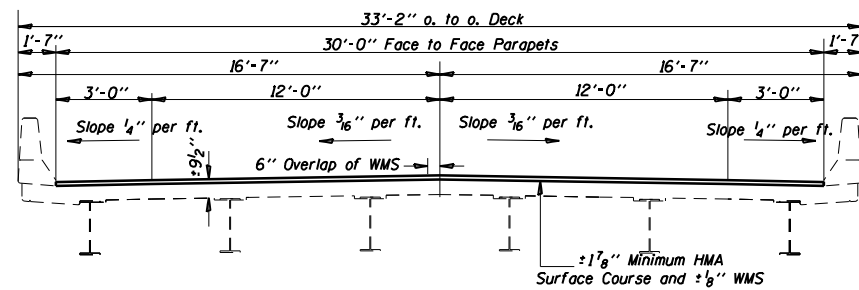
Note: All Sections looking South



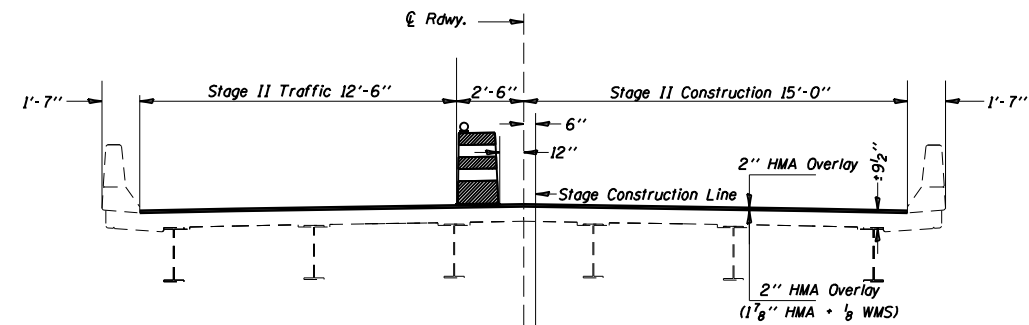
TYPICAL BRIDGE SECTION - EXISTING



STAGE I CONSTRUCTION



TYPICAL BRIDGE SECTION - PROPOSED



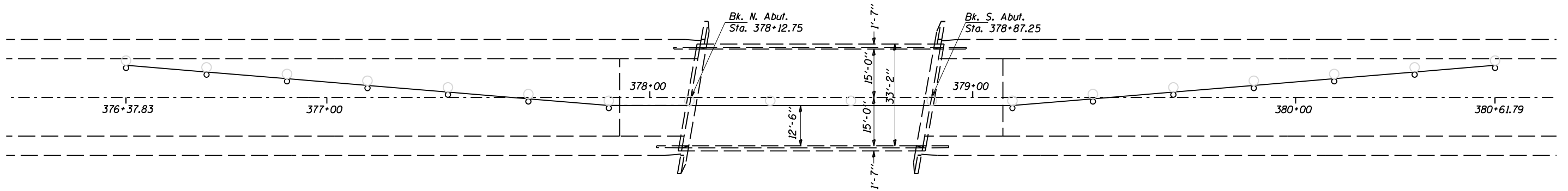
STAGE II CONSTRUCTION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

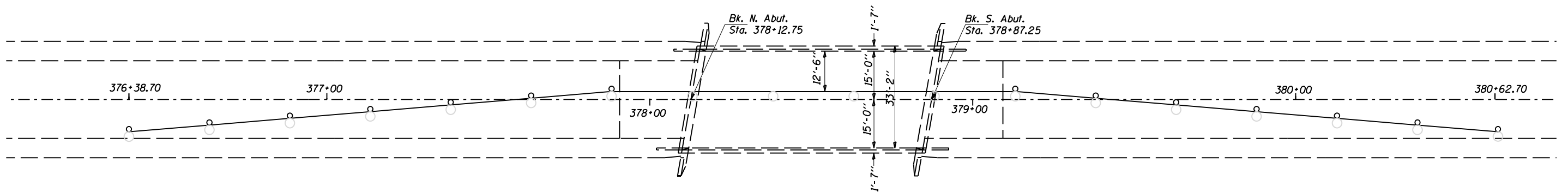
SECTION STAGING
SN 091-0067

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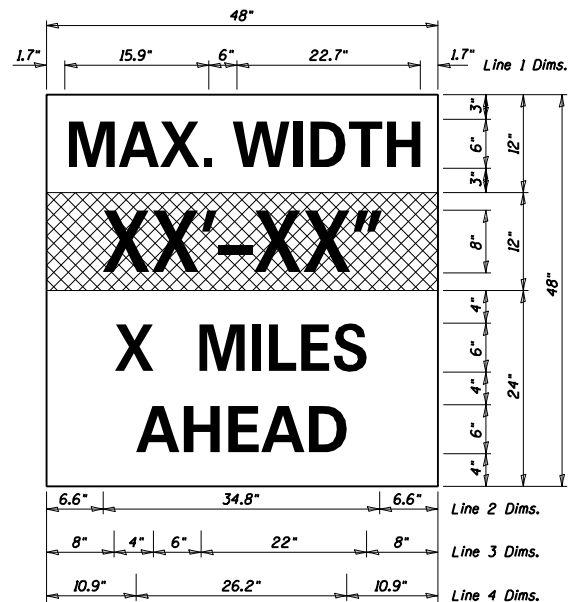
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VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78848	



STAGE I TRAFFIC



STAGE II TRAFFIC



W12-1103

W12-1103, No Border
 "MAX WIDTH" 6D, No Border, Black on White
 "XX'-XX'" 8D, No Border, Black on Orange
 "X MILES" 6D, No Border, Black on White
 "AHEAD" 6D, No Border, Black on White

Notes for Max Width Sign:

1. Install a Max Width Sign each direction on IL 127 to give traffic approaching work zone enough advance notice to change routes if needed. Exact locations as directed by engineer.
2. The contractor shall furnish the posts and erect the signs at the locations directed by the engineer. All signs shall be post mounted.
3. The noted work, including signs, posts, hardware and labor shall be included in the contract unit price, each, for Traffic Control and Protection, Std. 701316, no other compensation will be allowed.
4. The width shown on the W12-1103 sign shall be 18" less than what is shown in the staged lane widths table or as directed by the Engineer.
5. The "X" MILES AHEAD will be determined by the engineer.

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PLOT SCALE = 56.0000' / in.	DRAWN - ASH	REVISED - _____
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	DATE - 2/22/2021	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

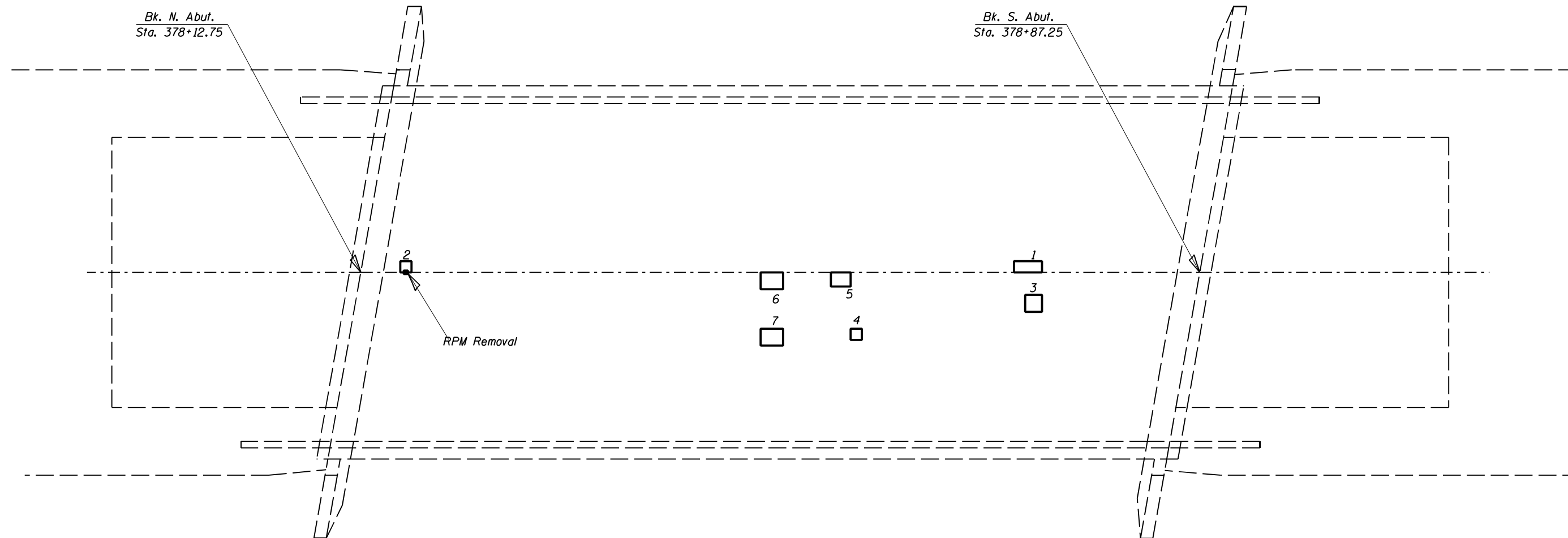
**PLAN STAGING
 SN 091-0067**

SCALE: _____ SHEET 3 OF 5 SHEETS STA. _____ TO STA. _____

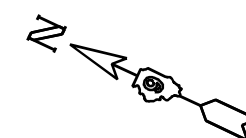
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	27
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				

Bk. N. Abut.
Sta. 378+12.75

Bk. S. Abut.
Sta. 378+87.25



Number	Length (ft)	Width (ft)	Area (Sq. Yd.)
1	1.0	2.5	0.3
2	1.0	1.0	0.1
3	1.5	1.5	0.3
4	1.0	1.0	0.1
5	1.8	1.3	0.2
6	1.5	2.0	0.3
7	1.5	2.0	0.3



BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Partial)	Sq. Yd.	2
Raised Reflective Pavement Marker Removal	Each	1
Bridge Deck Concrete Crack Sealer	Foot	500

Model: Default
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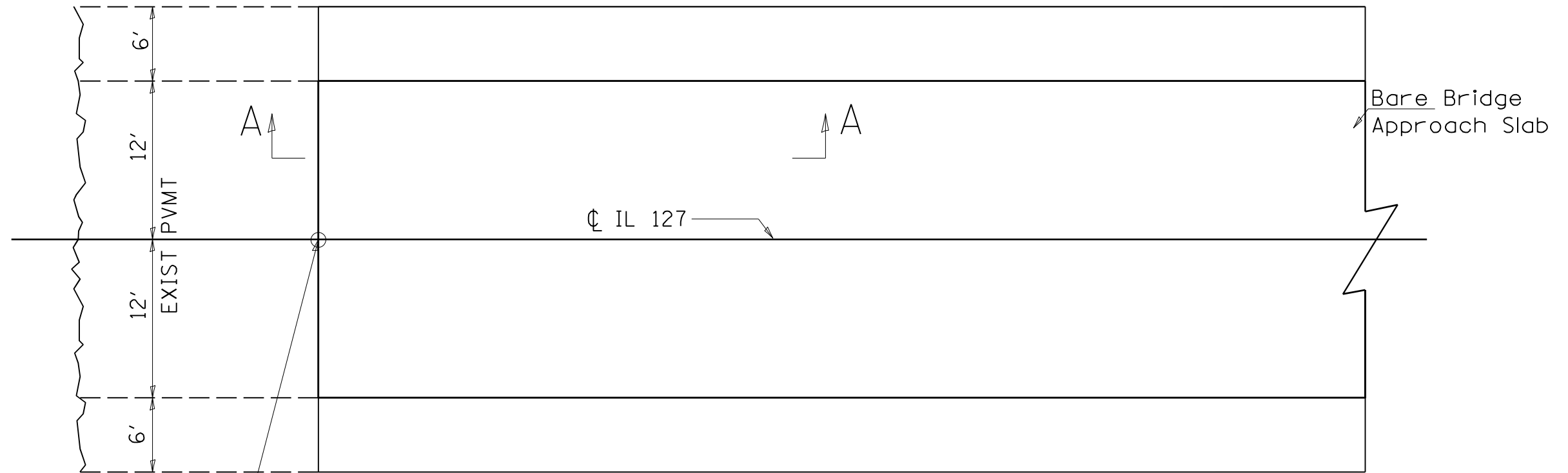
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PATCHING
SN 091-0067**

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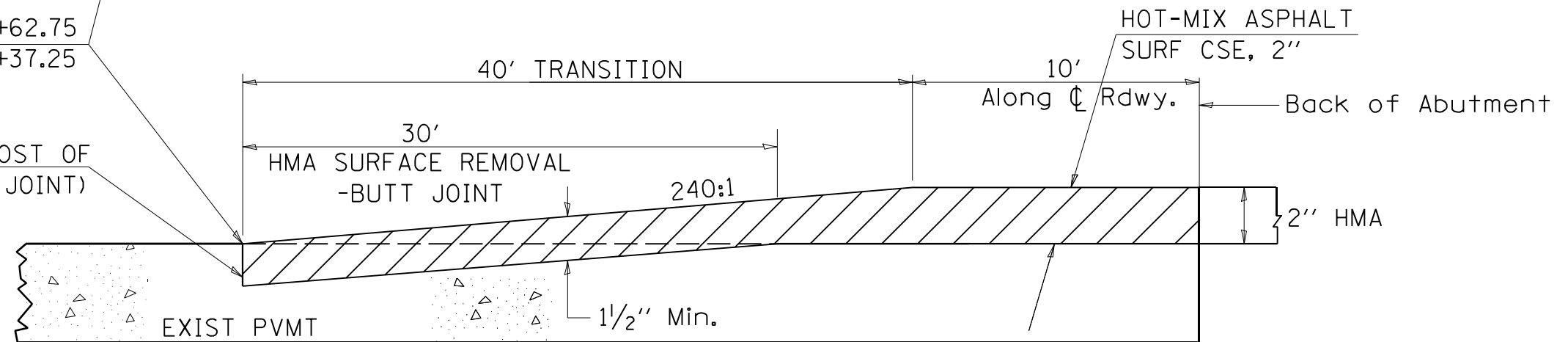
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	28
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				

BUTT JOINT



STA 377+62.75
STA 379+37.25

SAW CUT (INCLUDED IN THE COST OF HMA SURFACE REMOVAL-BUTT JOINT)



SECTION A-A

REVISIONS	
DRAWN	03-09-17
REVISED	
REVISED	
REVISED	

STD. 9-118

MODEL: Default
 FILE: I:\MSD\Projects\2021\09\09\DOT\Documents\DOT_Offices\District_9\Projects\78848\CADD\Sheet\0778848-5-Sheets.dwg

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	DRAWN - ASH	REVISED - _____
PLOT SCALE = 50.0000' / in.	CHECKED - MAS	REVISED - _____
PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT DETAIL
SN 091-0067**

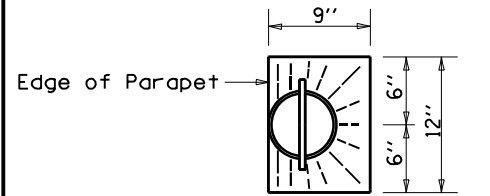
SCALE: _____ SHEET 5 OF 5 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	09 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	29
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				

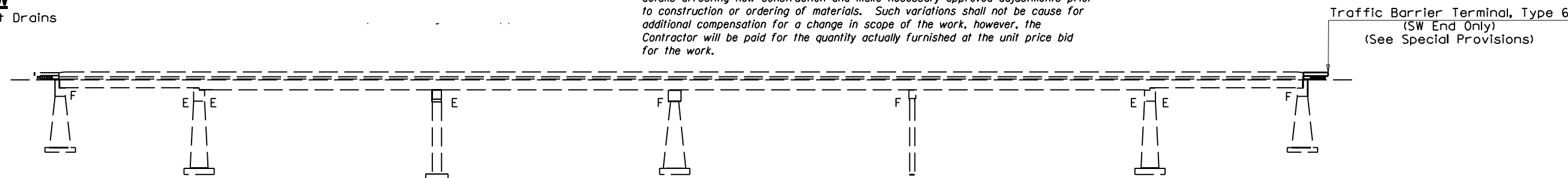
GENERAL NOTES

No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck section, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. 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.
 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.

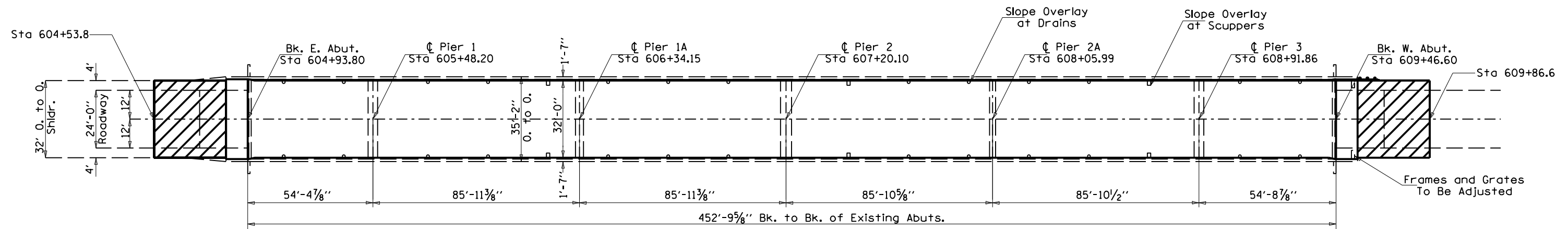
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.



TOP PLAN
Slope Overlay at Drains



ELEVATION



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	12.4
Concrete Superstructure	Cu. Yd.	14.1
Reinforcement Bars, Epoxy Coated	Pound	1700
Bar Splicers	Each	40
Preformed Joint Strip Seal	Foot	136
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	22
Bridge Deck Scarification 3/4"	Sq. Yd.	1610
Microsilica Overlay, 2 1/4"	Sq. Yd.	1610
Bridge Deck Concrete Crack Sealer	Foot	1120
HMA Base Course Widening 10"	Sq. Yd.	80
Protective Coat	Sq. Yd.	1614
Approach Slab Repair (Partial Depth)	Sq. Yd.	2
Temporary Concrete Barrier	Foot	787.5
Relocate Temporary Concrete Barrier	Foot	787.5
Guardrail Removal	Foot	36
Traffic Barrier Terminal, Type 6	Each	1
Structural Steel Removal	Pound	665
Structural Steel Repair	Pound	2266
Anchor Bolts, 1"	Each	24
Drainage Scuppers To Be Adjusted	Each	6
HMA Surface Course, IL-9.5FG, Mix "C", N70	Ton	24
HMA Surface Removal-Butt Joint	Sq Yd	214
Bituminous Materials (Tack Coat)	Pound	128

SCOPE OF WORK

- Set up TC&P Standard 701321
- Bridge Deck Scarification 3/4"
- Crack Seal
- Approach Slab Repair (Partial Depth)
- Full Depth Strip Seals
- Microsilica Overlay 2 1/4"
- Substructure Repairs
- Install Traffic Barrier Terminal, Type 6
- Structural Steel Repair



Expires 11-30-2022

08/12/2021

DESIGN STRESSES

f'c = 3,500 psi
 fy = 50,000 psi (Str. Steel) (M-223 Grade 50)
 fy = 60,000 psi (Reinforcement)
 fs = 36,000 psi (Str. Steel) (M163)

**BRIDGE REPAIRS
 IL 149 (FAP 0873)
 OVER BIG MUDDY RIVER
 FRANKLIN COUNTY
 D9 BRIDGE DECK REPAIR 2022-1
 SN 028-0037**

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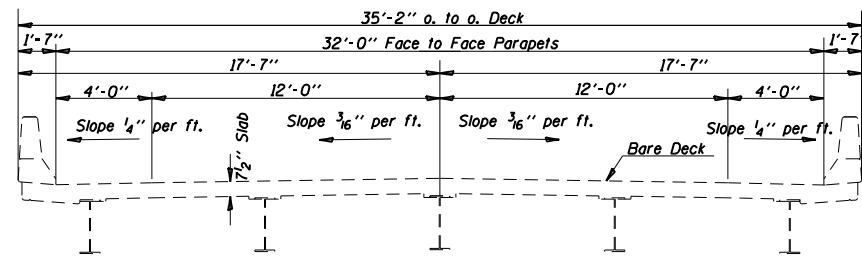
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

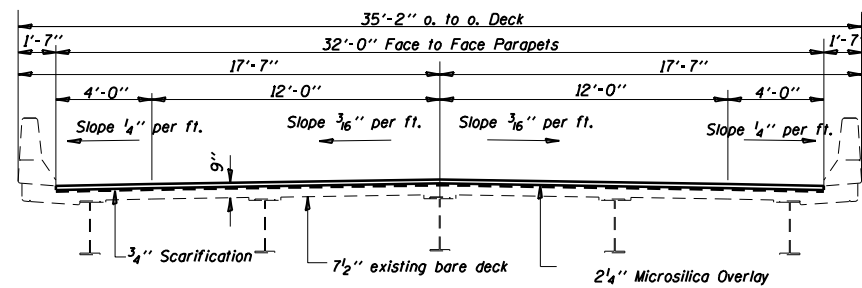
**GENERAL PLAN AND ELEVATION
 SN 028-0037**

SCALE: _____ SHEET 1 OF 10 SHEETS STA. _____ TO STA. _____

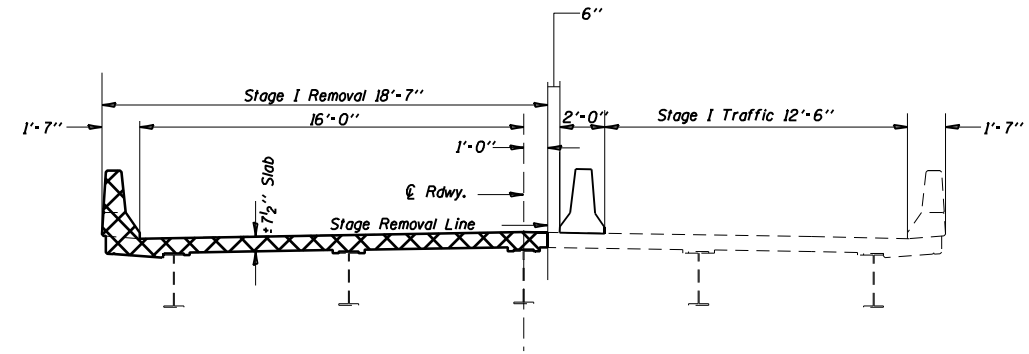
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	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	30
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				



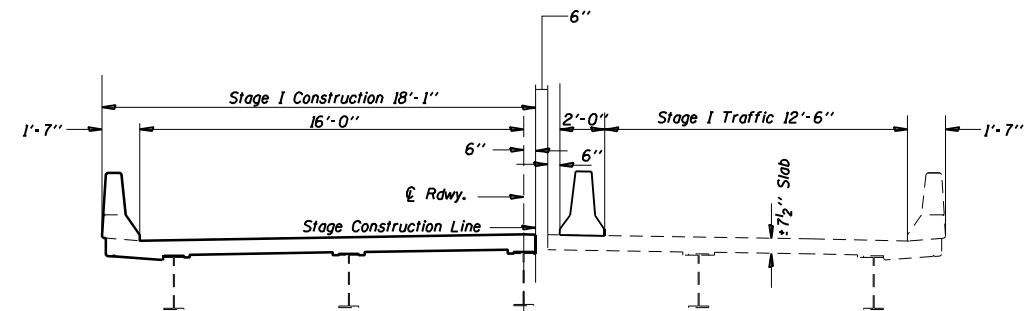
TYPICAL BRIDGE SECTION - EXISTING



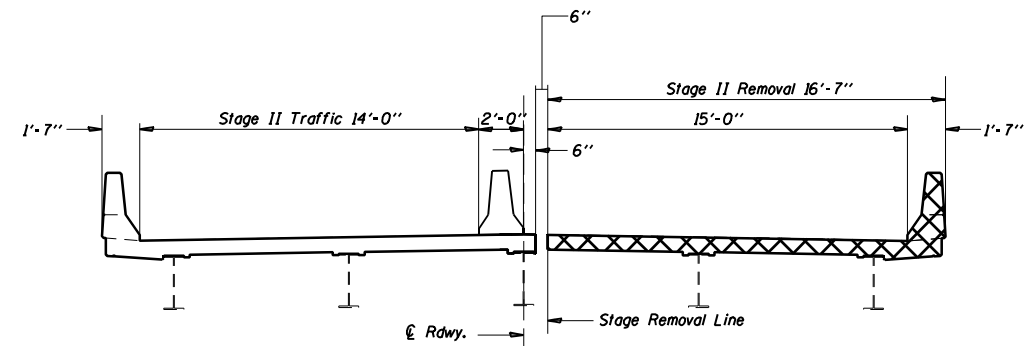
TYPICAL BRIDGE SECTION - PROPOSED



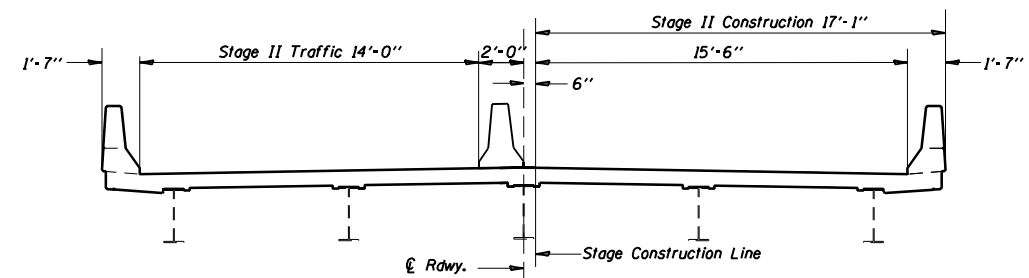
STAGE I REMOVAL
(At joint locations only)



STAGE I CONSTRUCTION
(At joint locations only)



STAGE II REMOVAL
(At joint locations only)



STAGE II CONSTRUCTION
(At joint locations only)

LEGEND:

Concrete Removal

Notes: All Sections looking West

MODEL: Default
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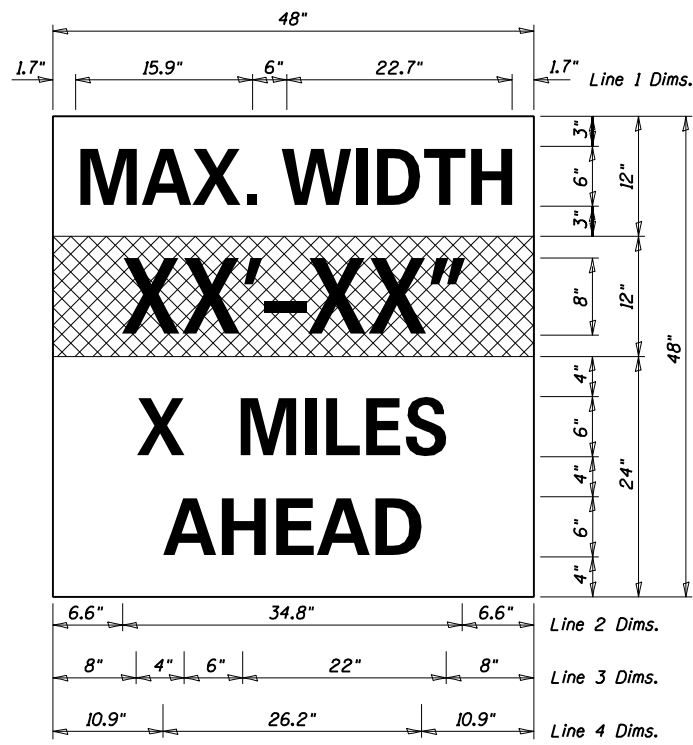
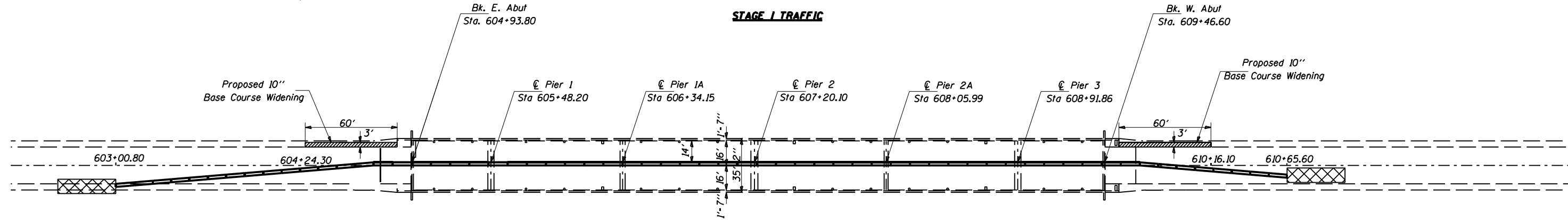
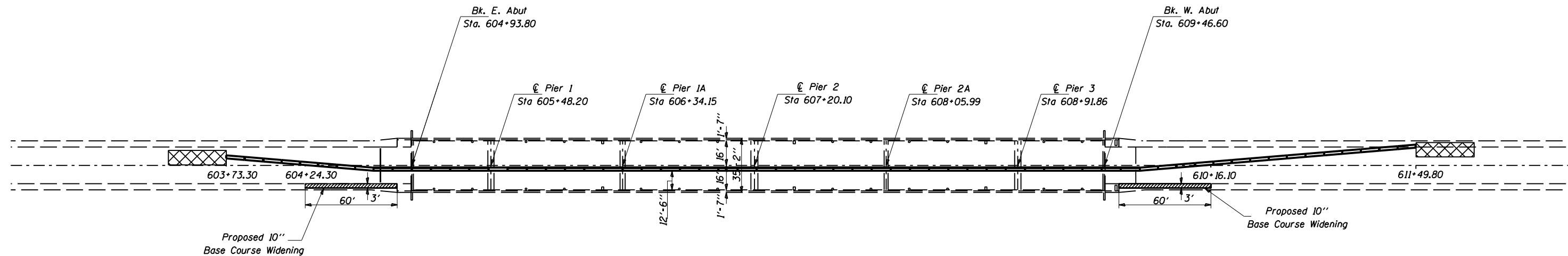
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PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISIONS - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION STAGING
SN 028-0037

SCALE: _____ SHEET 2 OF 10 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	31
			CONTRACT NO. 78848	
		ILLINOIS	FED. AID PROJECT	



W12-I103
 W12-I103, No Border
 "MAX WIDTH" 6D, No Border, Black on White
 "XX'-XX'" 8D, No Border, Black on Orange
 "X MILES" 6D, No Border, Black on White
 "AHEAD" 6D, No Border, Black on White

LEGEND: Impact Attenuator



- Notes for Max Width Sign:**
1. Install a Max Width Sign each direction on IL 149 to give traffic approaching work zone enough advance notice to change routes if needed. Exact locations as directed by engineer.
 2. The contractor shall furnish the posts and erect the signs at the locations directed by the engineer. All signs shall be post mounted.
 3. The noted work, including signs, posts, hardware and labor shall be included in the contract unit price, each, for Traffic Control and Protection, Std. 701321, no other compensation will be allowed.
 4. The width shown on the W12-I103 sign shall be 18" less than what is shown in the staged lane widths table or as directed by the Engineer.
 5. The "X" MILES AHEAD will be determined by the engineer.

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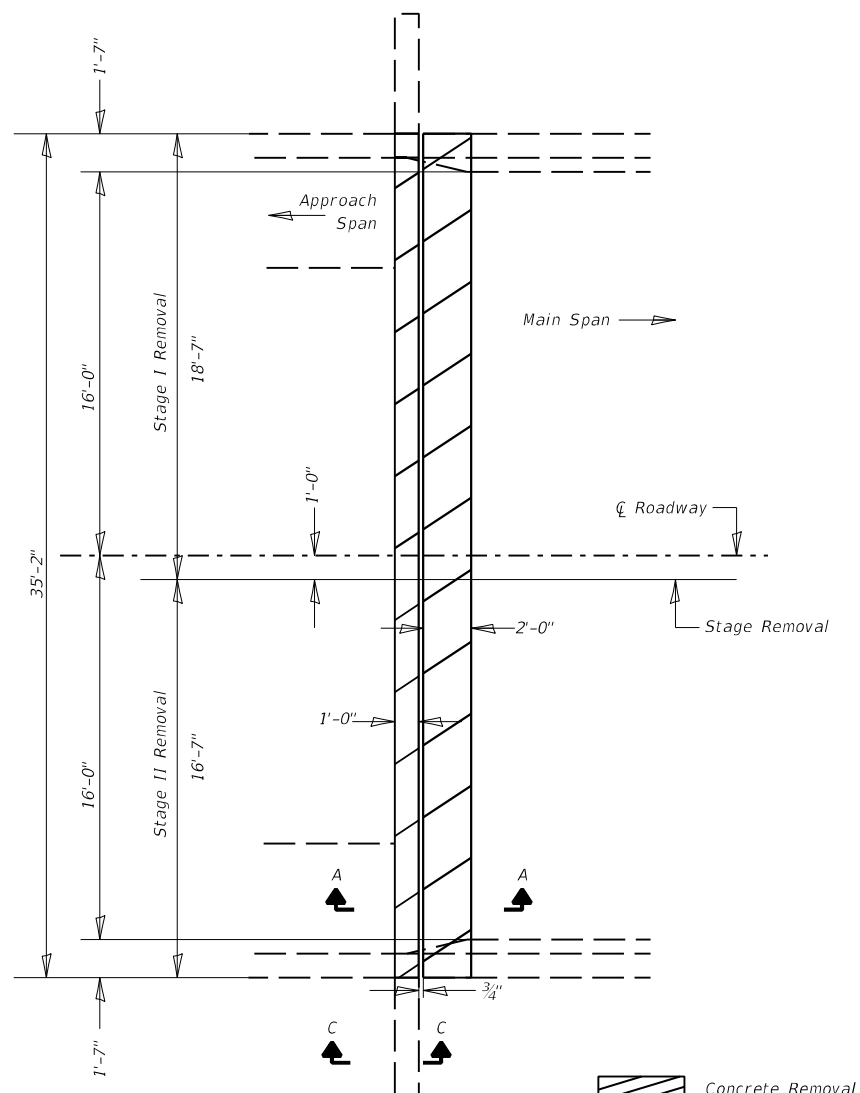
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PLOT DATE = 8/12/2021		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

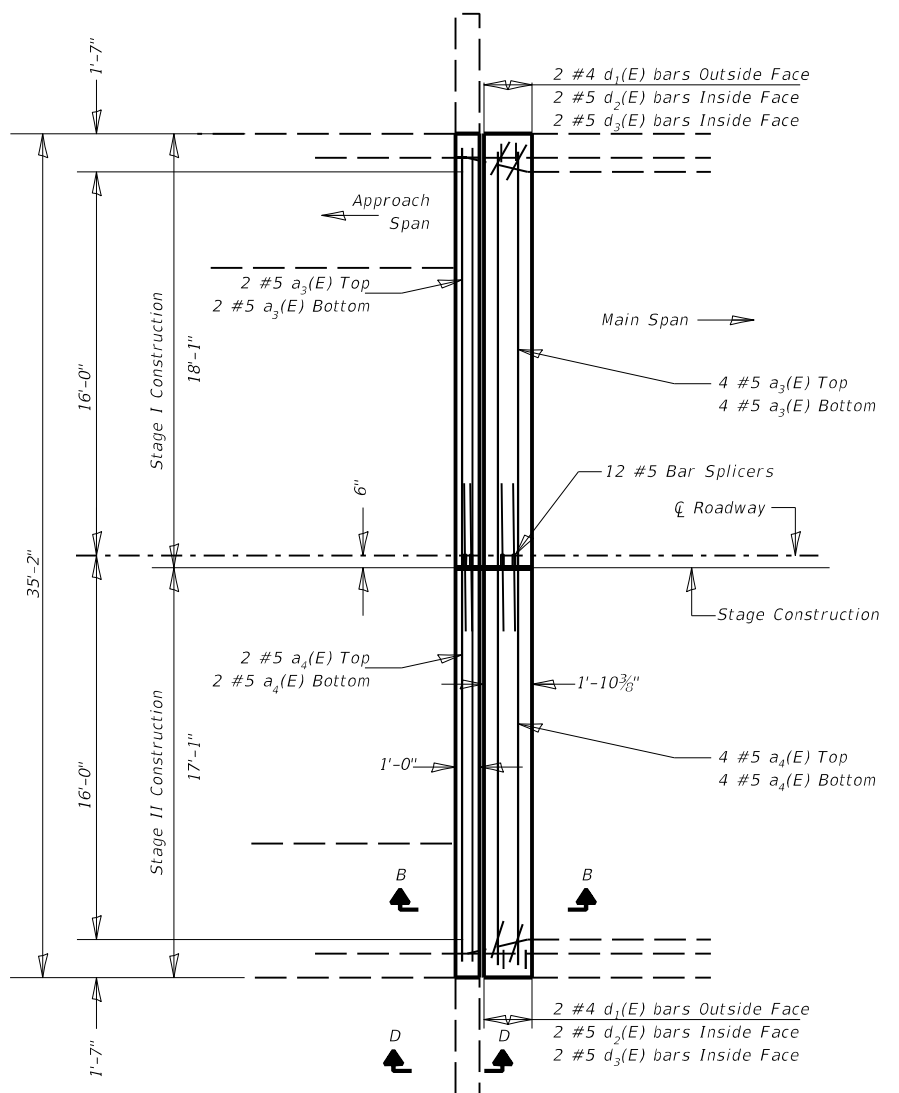
PLAN STAGING
SN 028-0037

SCALE: _____ SHEET 3 OF 10 SHEETS STA. _____ TO STA. _____

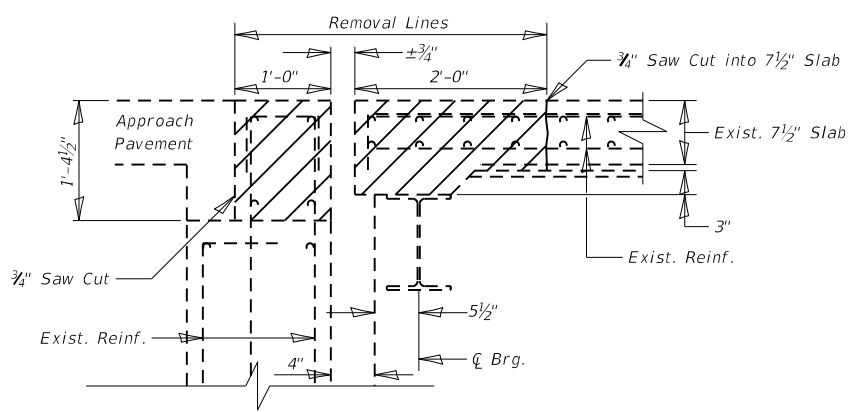
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			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				



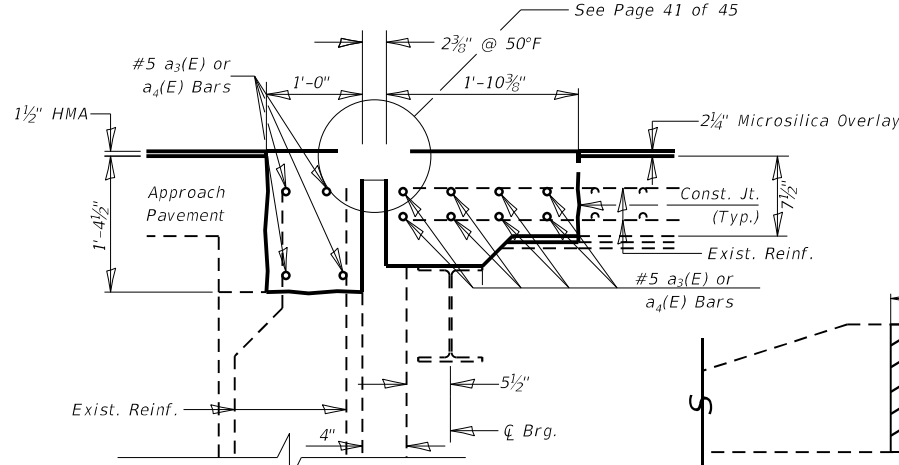
**JOINT @ ABUTMENTS
SHOWING CONCRETE REMOVAL**



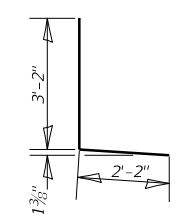
**JOINT @ ABUTMENTS
SHOWING NEW CONCRETE**



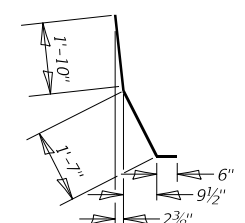
SECTION A-A
Looking South East Abutment
Looking North West Abutment



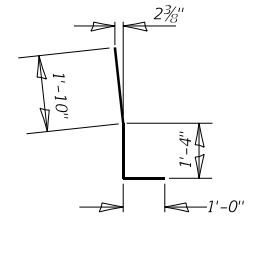
SECTION B-B
Looking South East Abutment
Looking North West Abutment



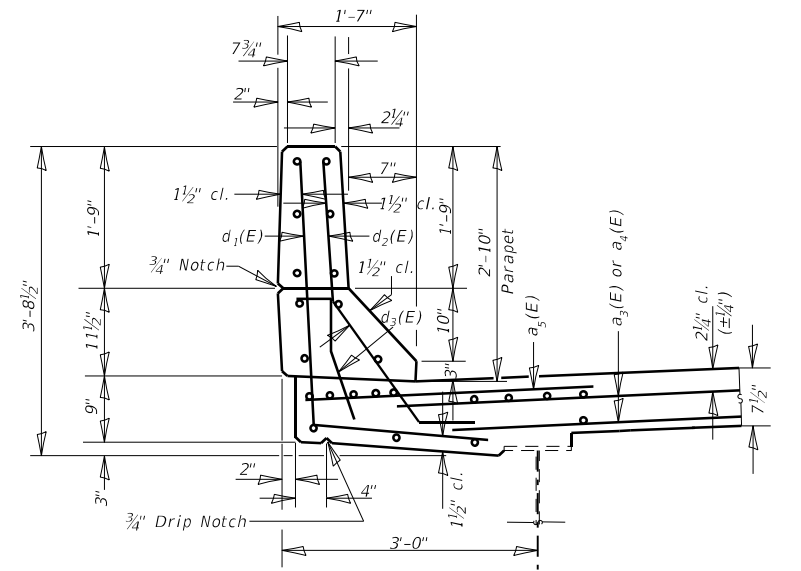
BAR d1(E)



BAR d2(E)



BAR d3(E)



SECTION THROUGH PARAPET

BILL OF MATERIAL (TWO ABUTMENTS)

Bar	No.	Size	Length	Shape
a ₃ (E)	24	#5	17'-1"	—
a ₄ (E)	24	#5	15'-1"	—
a ₅ (E)	16	#6	4'-0"	—
d ₁ (E)	8	#4	5'-4"	L
d ₂ (E)	8	#5	3'-11"	L
d ₃ (E)	8	#5	4'-2"	L
Bar Splicer	Each		24	
Concrete Superstructure	Cu. Yd.		9.0	
Concrete Removal	Cu. Yd.		8.0	
Reinforcement Bars, Epoxy Coated	Pound		1010	

**JOINT RECONSTRUCTION DETAILS
IL 149 OVER BIG MUDDY RIVER
F.A. RT. 0873 - D9 BRIDGE DECK REPAIR 2022-1
FRANKLIN COUNTY
STRUCTURE NO. 028-0037**

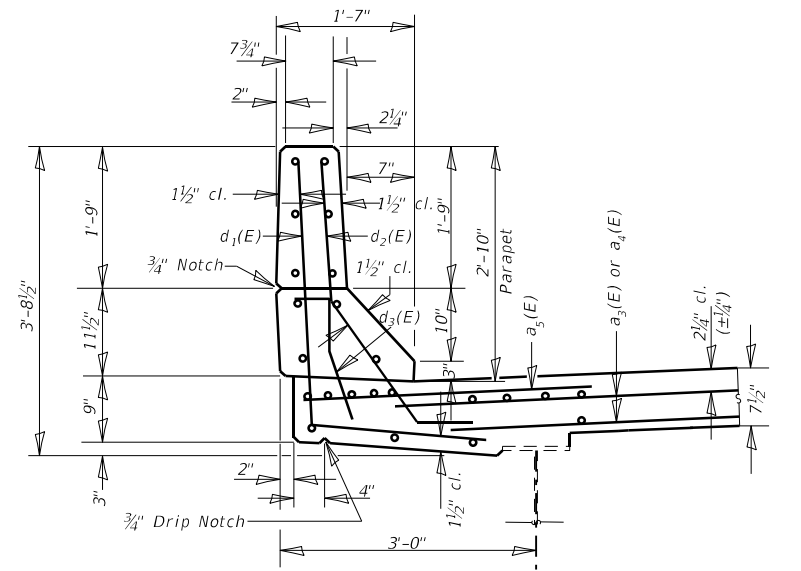
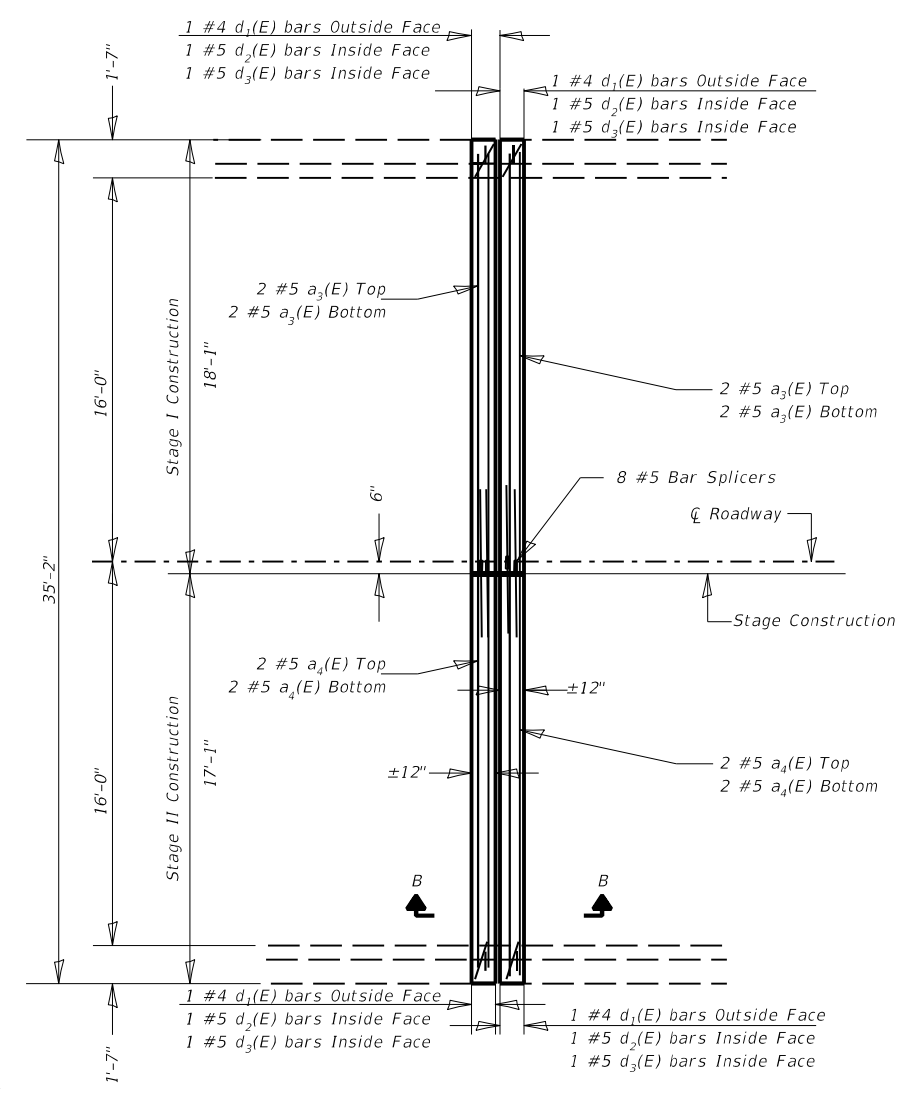
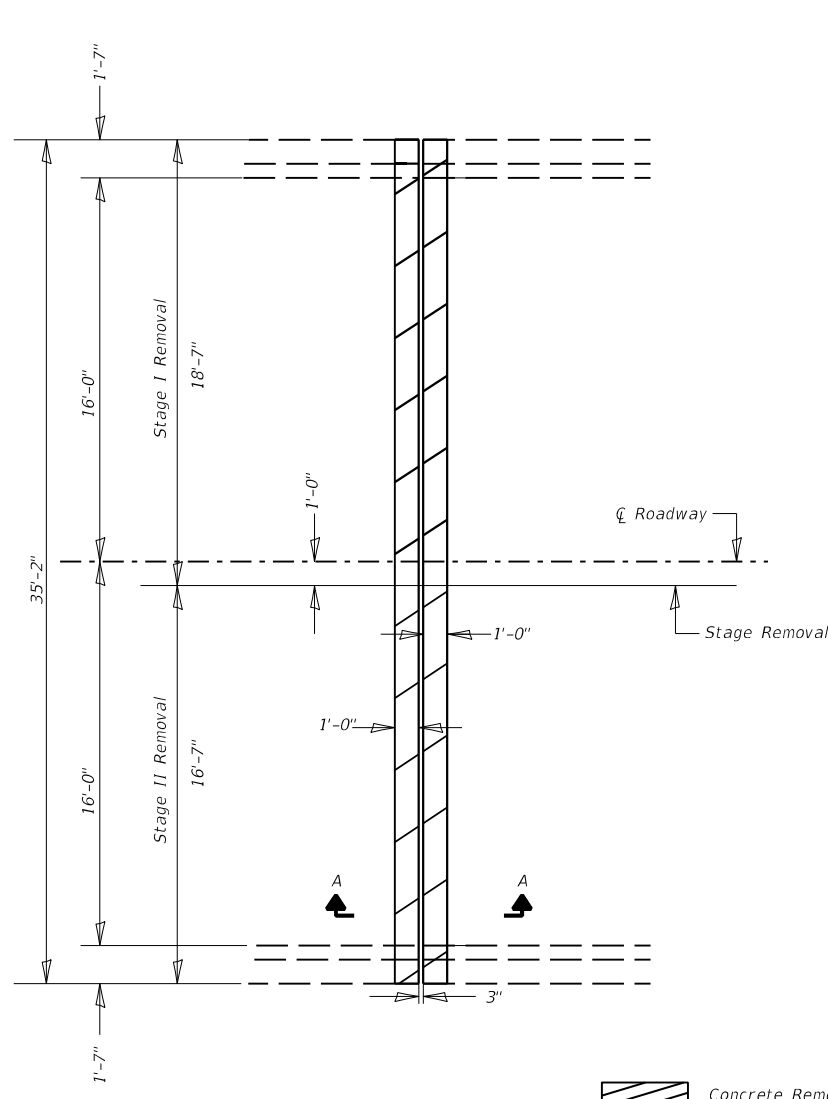
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 OFFICE: District 9
 DATE: 8/12/2021

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DRAWN - ASH	REVISIONS -	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

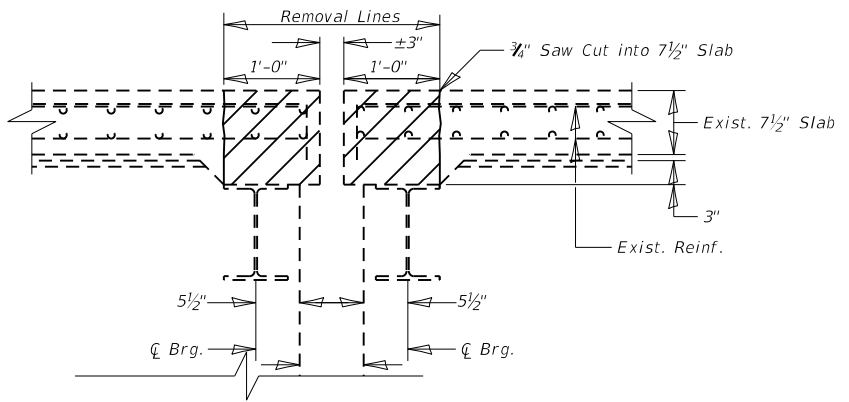
JOINT RECONSTRUCTION DETAILS AT ABUTMENTS SN 028-0037	
SCALE: _____	SHEET 4 OF 10 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78848	



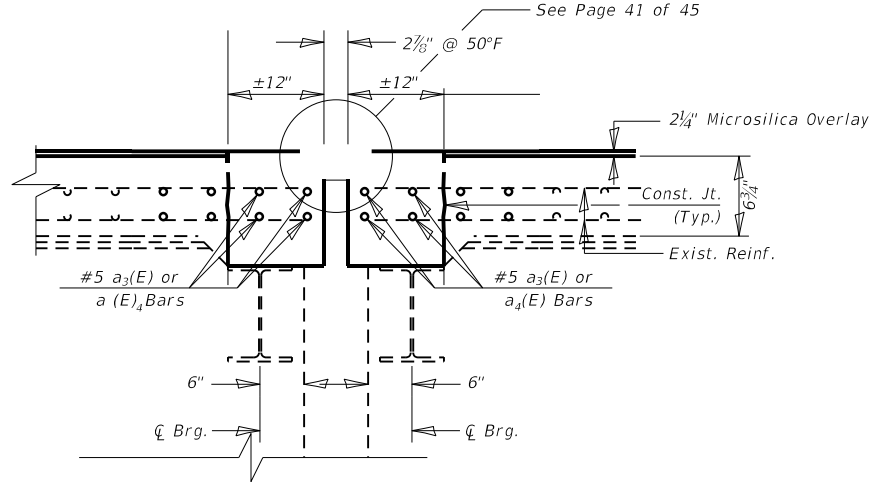
SECTION THROUGH PARAPET

**JOINT @ PIERS 1 & 3
SHOWING CONCRETE REMOVAL**

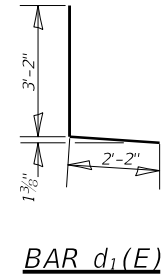


**SECTION A-A
Looking South**

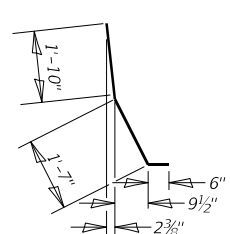
**JOINT @ PIERS 1 & 3
SHOWING NEW CONCRETE**



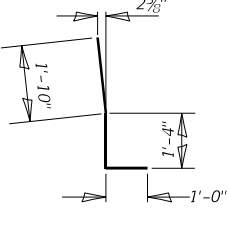
**SECTION B-B
Looking South**



BAR d1(E)



BAR d2(E)



BAR d3(E)

BILL OF MATERIAL (TWO PIERS)

Bar	No.	Size	Length	Shape
a3(E)	16	#5	17'-1"	---
a4(E)	16	#5	15'-1"	---
a5(E)	8	#6	4'-0"	---
d1(E)	8	#4	5'-4"	L
d2(E)	8	#5	3'-11"	J
d3(E)	8	#5	4'-2"	J
Bar Splicer			Each	16
Concrete Superstructure			Cu. Yd.	5.1
Concrete Removal			Cu. Yd.	4.4
Reinforcement Bars, Epoxy Coated			Pound	690

**JOINT RECONSTRUCTION DETAILS
IL 149 OVER BIG MUDDY RIVER
F.A. RT. 0873 - D9 BRIDGE DECK REPAIR 2022-1
FRANKLIN COUNTY
STRUCTURE NO. 028-0037**

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FILE NAME: ...

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DRAWN - ASH	REVISED -	REVISED -
PLOT SCALE = 0.0000' / in.	CHECKED - MAS	REVISED -
PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT RECONSTRUCTION DETAILS
AT PIERS 1 & 3 SN 028-0037**

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.

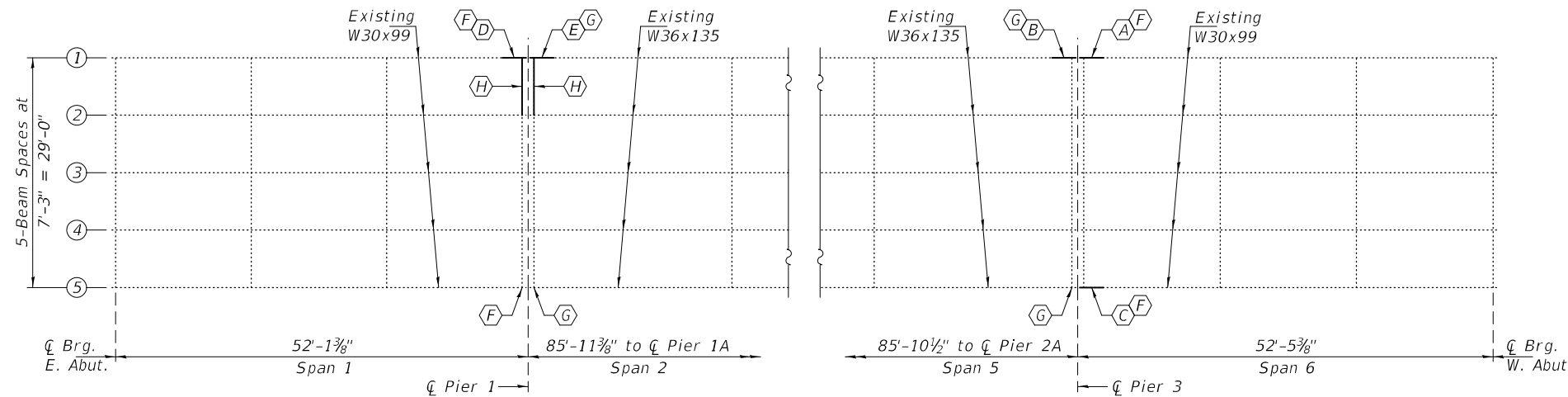
Fasteners shall be high strength bolts. Bolts $\frac{3}{4}"\text{Ø}$, open holes $1\frac{1}{16}"\text{Ø}$, unless otherwise noted.

Diaphragm connection holes shall be $1\frac{1}{16}"\text{Ø}$ for $\frac{3}{4}"\text{Ø}$ bolts. Two hardened washers shall be required at diaphragm connections.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair.

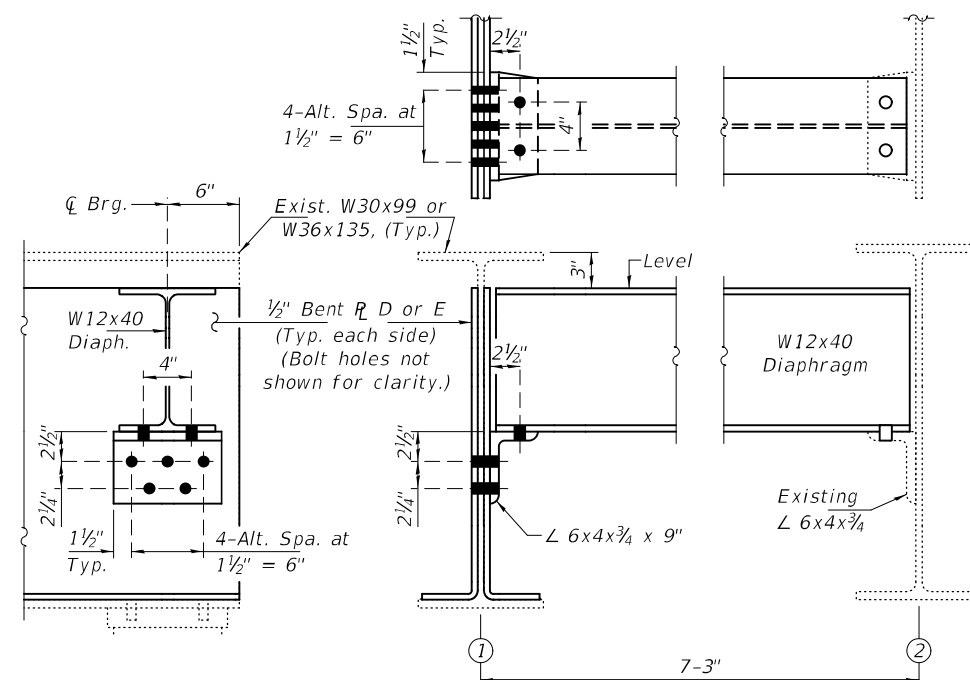
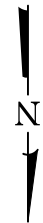
Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

New structural steel, bearing side retainers, anchor bolts, connection bolts, nuts and washers shall be hot dip galvanized according to Special Provision "Hot Dip Glavanizing for Structural Steel".



PARTIAL FRAMING PLAN

- (A) - Beam End Repair "A" (See sheet 2 of 4)
- (B) - Beam End Repair "B" (See sheet 2 of 4)
- (C) - Beam End Repair "C" (See sheet 3 of 4)
- (D) - Beam End Repair "D" (See sheet 4 of 4)
- (E) - Beam End Repair "E" (See sheet 4 of 4)
- (F) - New Bearing Retainer "Type I" (See sheet 3 of 4)
- (G) - New Bearing Retainer "Type II" (See sheet 3 of 4)
- (H) - Remove & Replace Diaphragm (See Details this sheet)



REPAIR "H" - DIAPHRAGM REPLACEMENT

(2-Required)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Removal	Pound	665
Structural Steel Repair	Pound	2266
Anchor Bolts, 1"Ø	Each	24

DESIGNED - Victor H. Veliz
 CHECKED - Chi-Cheung Chau
 DRAWN - STEFFEN
 CHECKED - VHV CCC

EXAMINED - *Timothy A. ...*
 ENGINEER OF STRUCTURAL SERVICES
 PASSED - *Carl ...*
 ENGINEER OF BRIDGES AND STRUCTURES

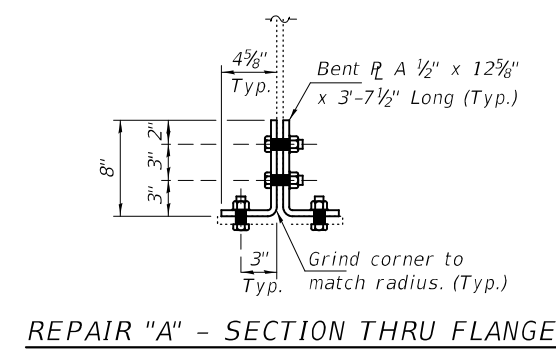
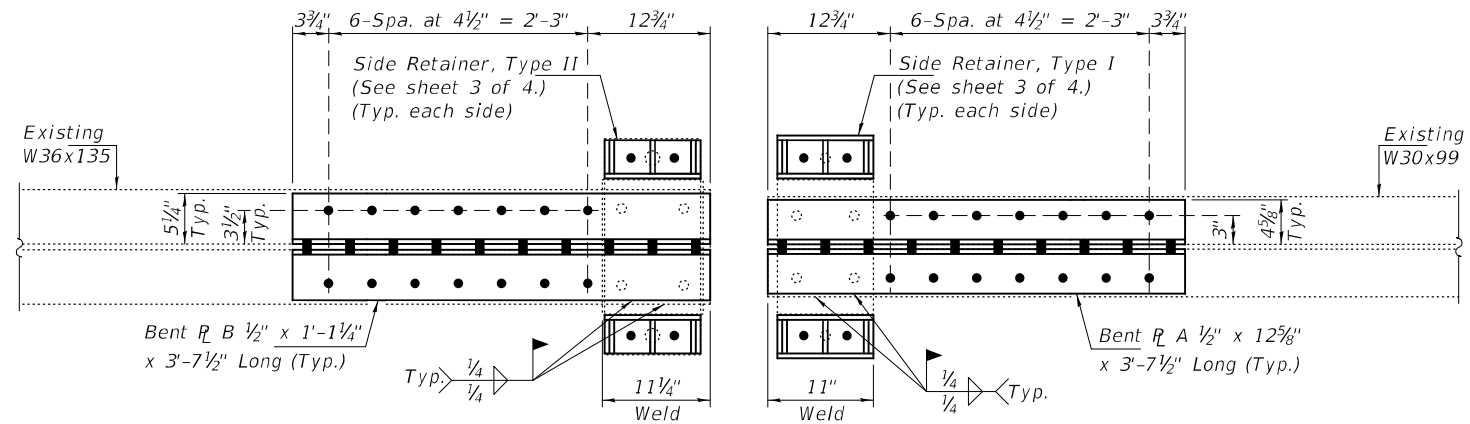
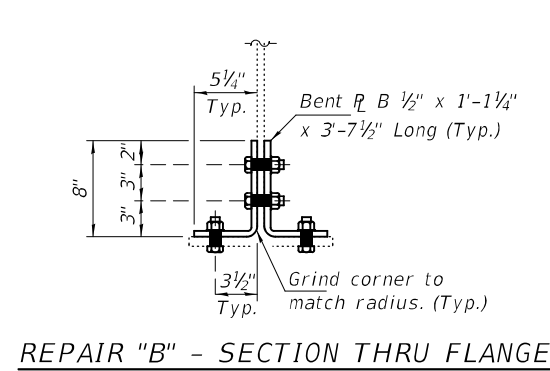
DATE - AUGUST 11, 2021
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
 ILLINOIS ROUTE 149 OVER BIG MUDDY RIVER
 SN 028-0037

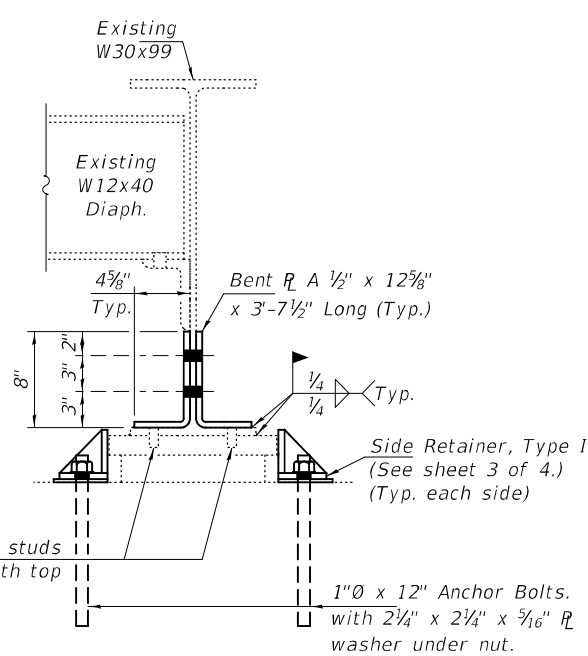
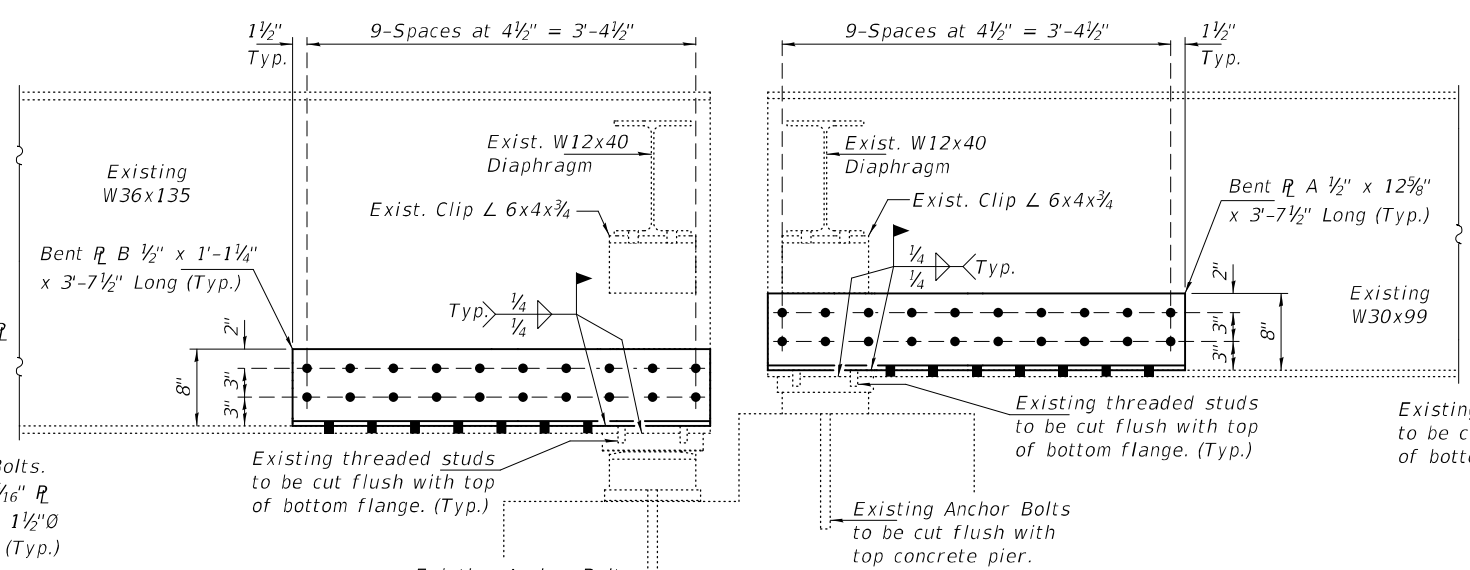
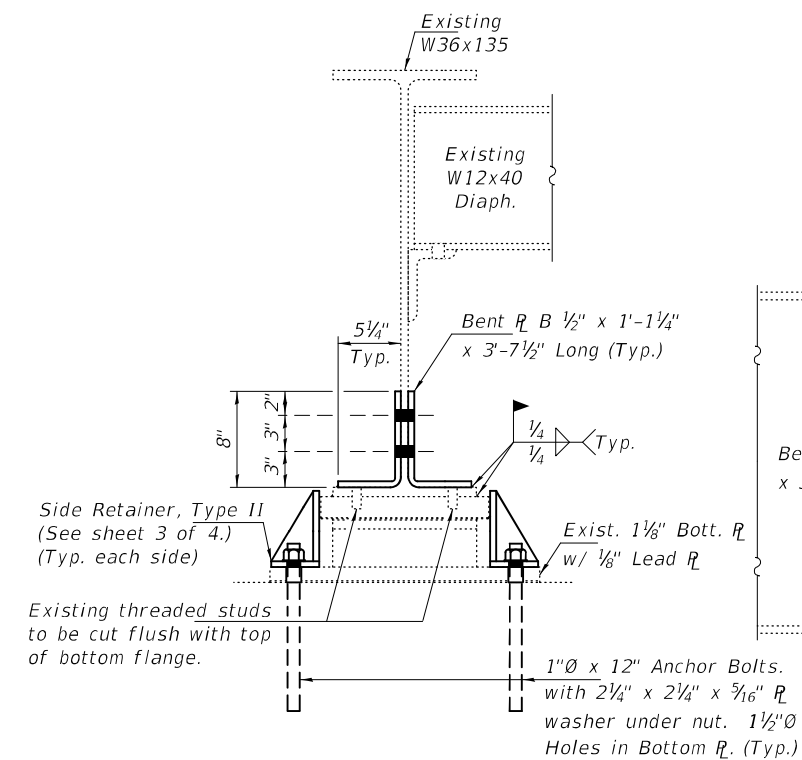
SHEET NO. 1 OF 4 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	D9 Bridge Deck Repair 2022-1	FRANKLIN	45	36
CONTRACT NO. 78848				
ILLINOIS		FED. AID PROJECT		



REPAIR "B" - SPAN 5, BEAM 1 REPAIR "A" - SPAN 6, BEAM 1

BEAM END REPAIRS "A" & "B" - PLAN



REPAIR "B" - SECTION AT BEARING

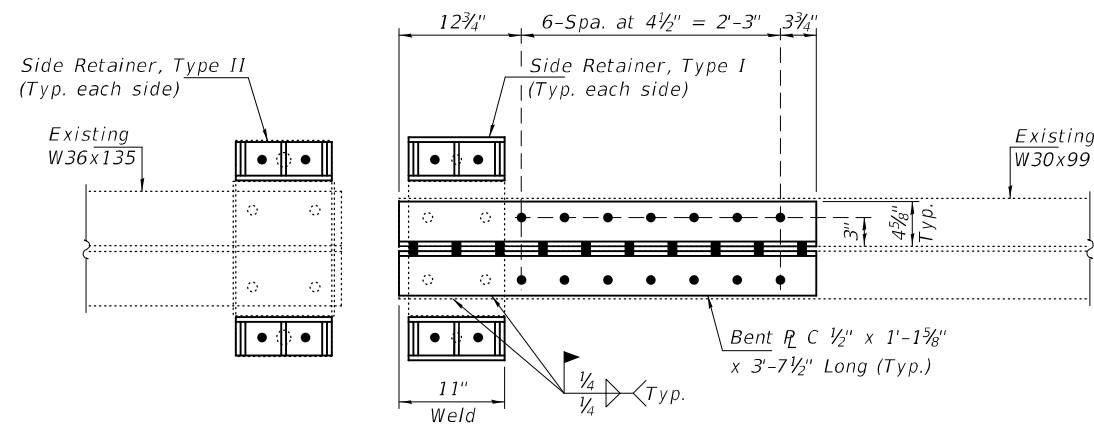
REPAIR "B" - SPAN 5, BEAM 1

REPAIR "A" - SPAN 6, BEAM 1

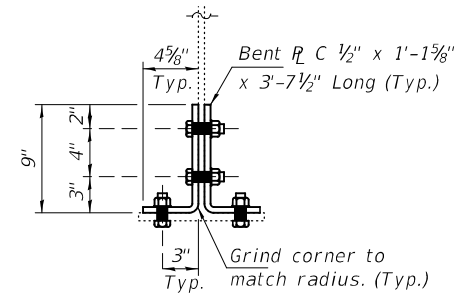
REPAIR "A" - SECTION AT BEARING

BEAM END REPAIRS "A" & "B" - ELEVATION
(New Side Retainers & Anchor Bolts not shown for clarity.)

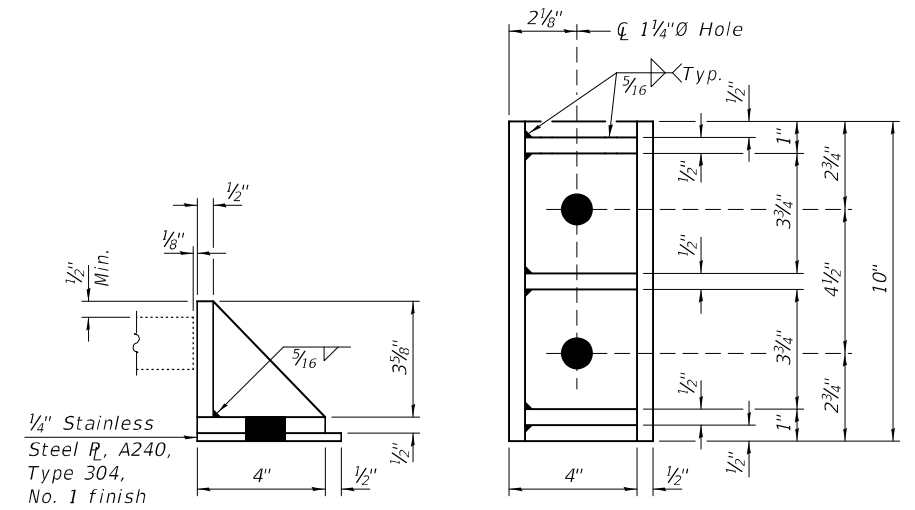
DESIGNED - VHV	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - AUGUST 11, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEAM END REPAIRS "A" & "B" SN 028-0037	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - CCC	PASSED - <i>Carl Ruyter</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			873	D9 Bridge Deck Repair 2022-1	FRANKLIN	45	37	
DRAWN - STEFFEN		REVISED -			CONTRACT NO. 78848					
CHECKED - VHV CCC					SHEET NO. 2 OF 4 SHEETS					
				ILLINOIS FED. AID PROJECT						



BEAM END REPAIR "C" - PLAN

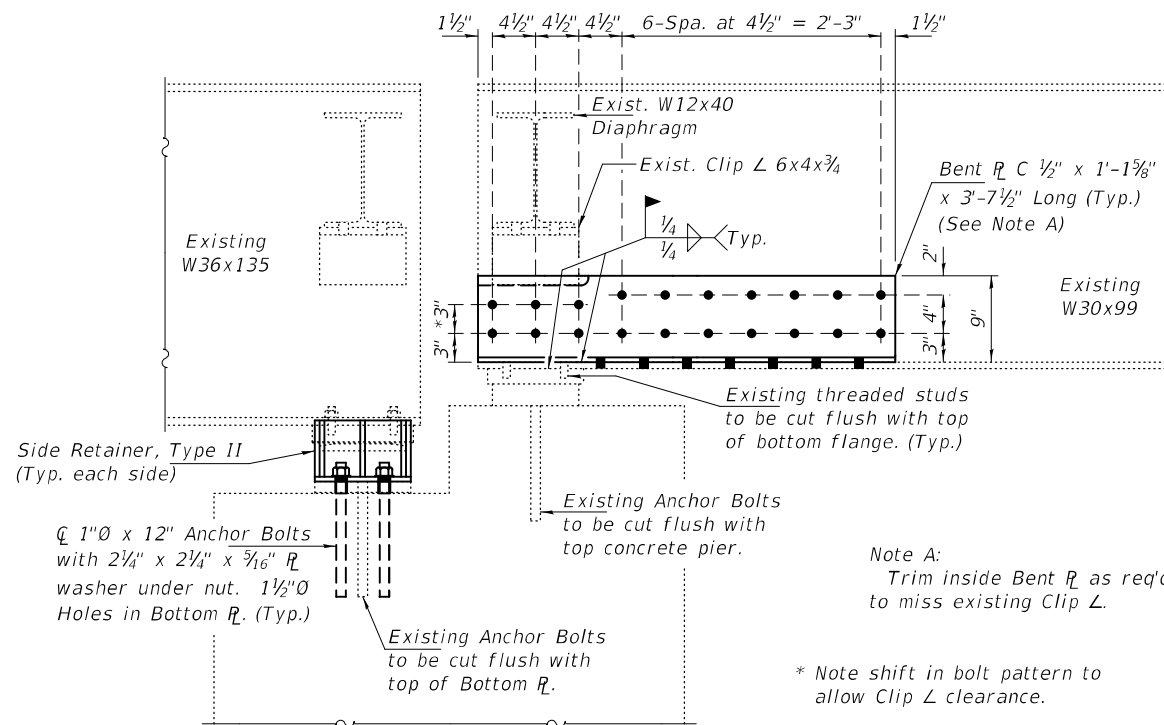


REPAIR "C" - SECTION THRU FLANGE



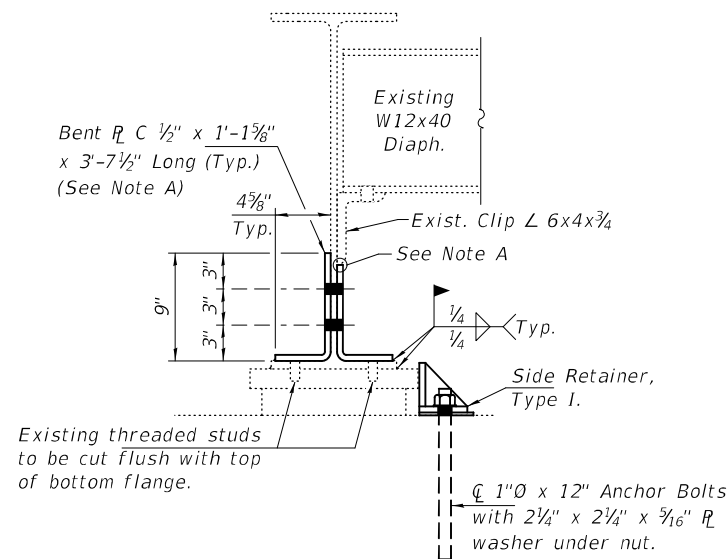
REPAIR "F" - SIDE RETAINER, TYPE I

(6-Required)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

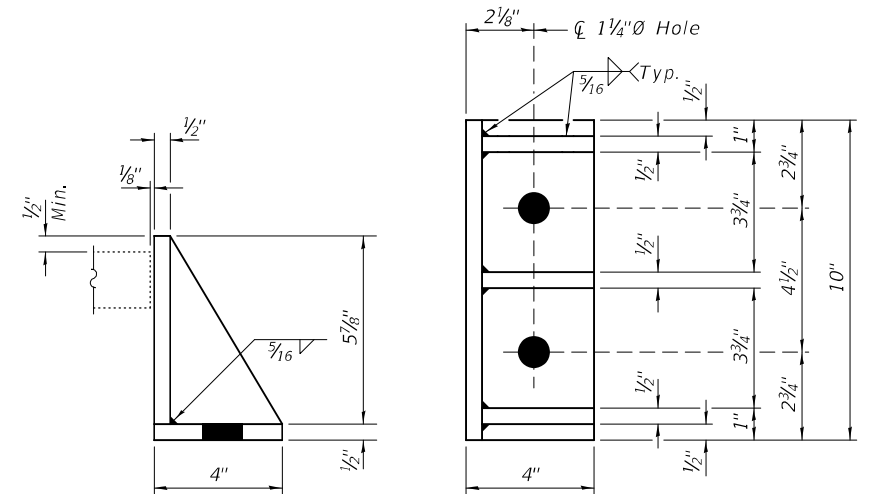


BEAM END REPAIR "C" - ELEVATION

(New Side Retainers & Anchor Bolts at Beam End Repair "C" not shown for clarity.)



REPAIR "C" - SECTION AT BEARING



REPAIR "G" - SIDE RETAINER, TYPE II

(8-Required)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED - VHV	CHECKED - CCC	DRAWN - STEFFEN	CHECKED - VHV CCC
----------------	---------------	-----------------	-------------------

EXAMINED	<i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - AUGUST 11, 2021
PASSED	<i>Carl R. Rupp</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

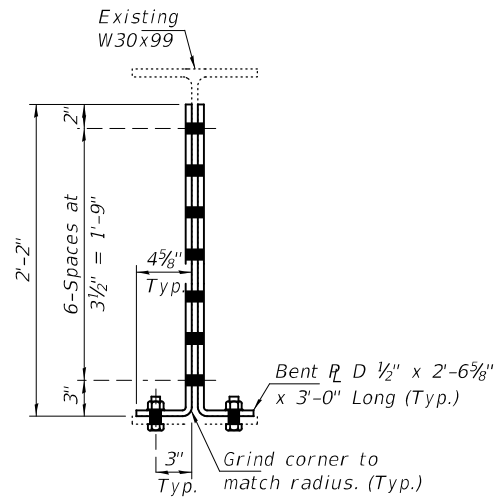
DATE - AUGUST 11, 2021	REVISED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

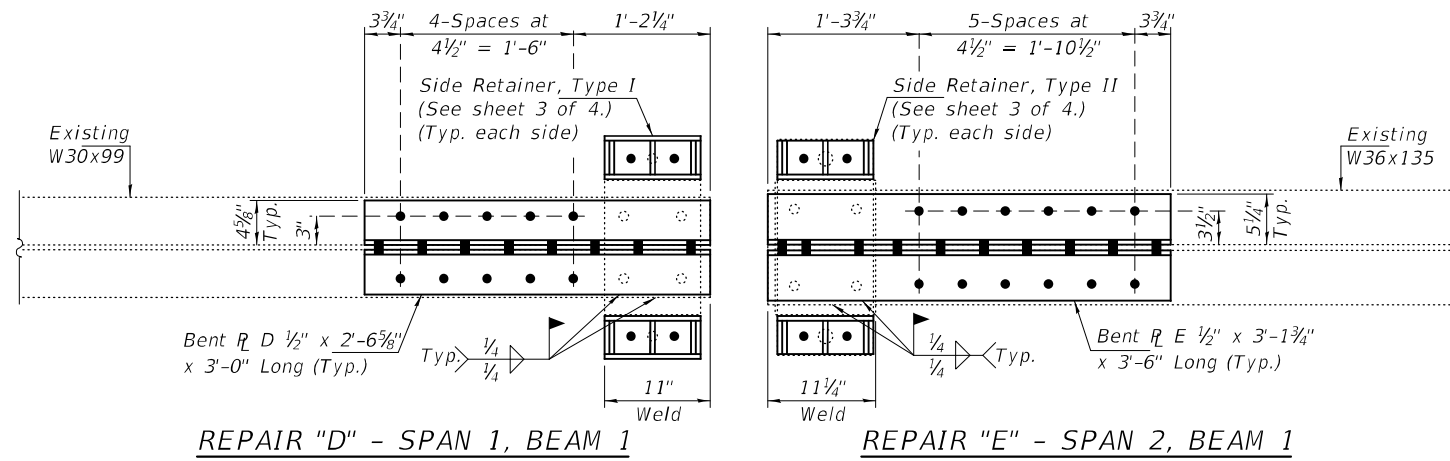
BEAM END REPAIR "C" & SIDE RETAINER DETAILS
SN 028-0037

SHEET NO. 3 OF 4 SHEETS

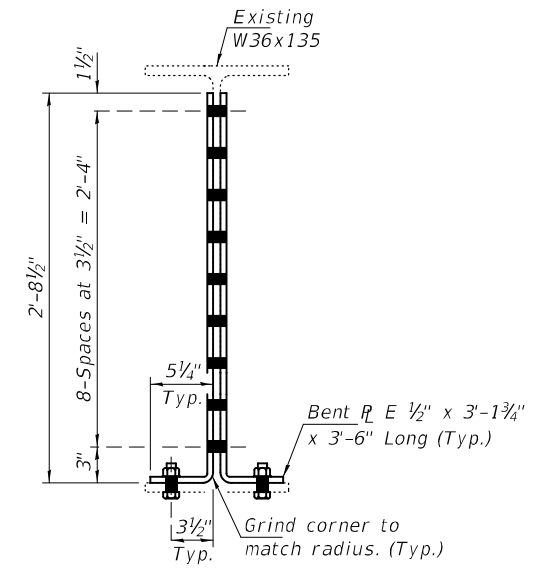
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	D9 Bridge Deck Repair 2022-1	FRANKLIN	45	38
ILLINOIS			CONTRACT NO. 78848	
FED. AID PROJECT				



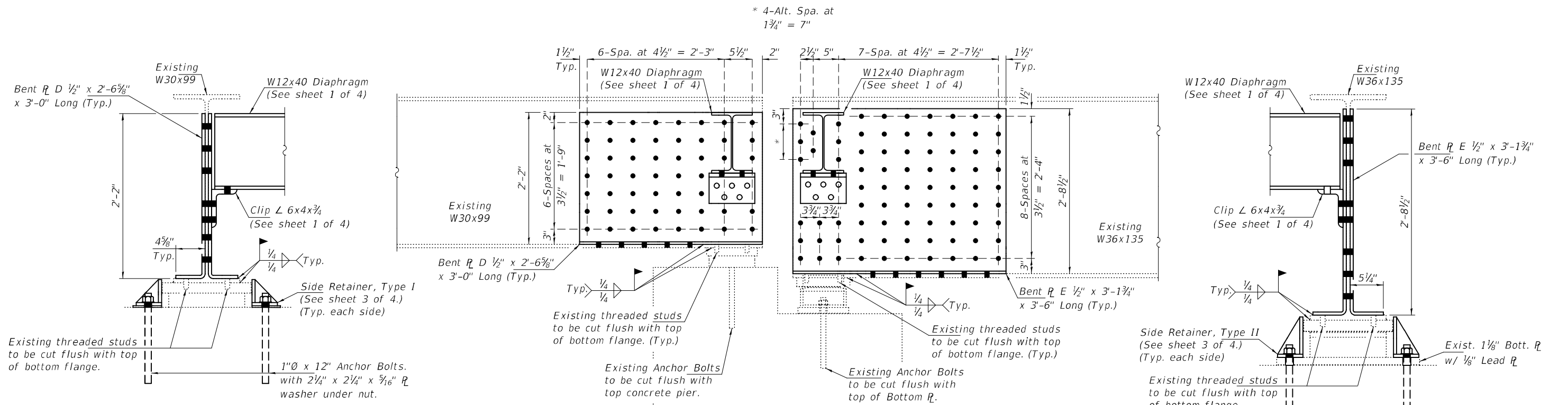
REPAIR "D" - SECTION



BEAM END REPAIRS "D" & "E" - PLAN



REPAIR "E" - SECTION



BEAM END REPAIRS "D" & "E" - ELEVATION

(New Side Retainers & Anchor Bolts not shown for clarity.)

REPAIR "D" - SECTION AT BEARING

REPAIR "D" - SPAN 1, BEAM 1

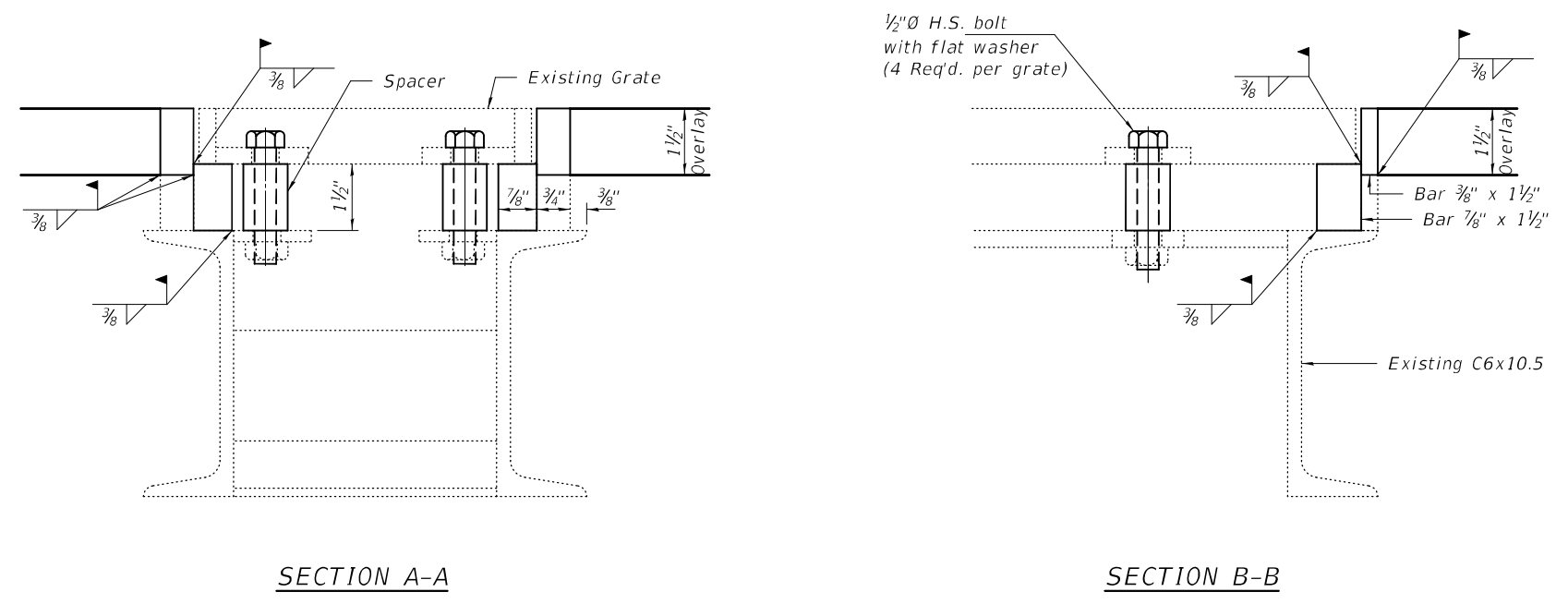
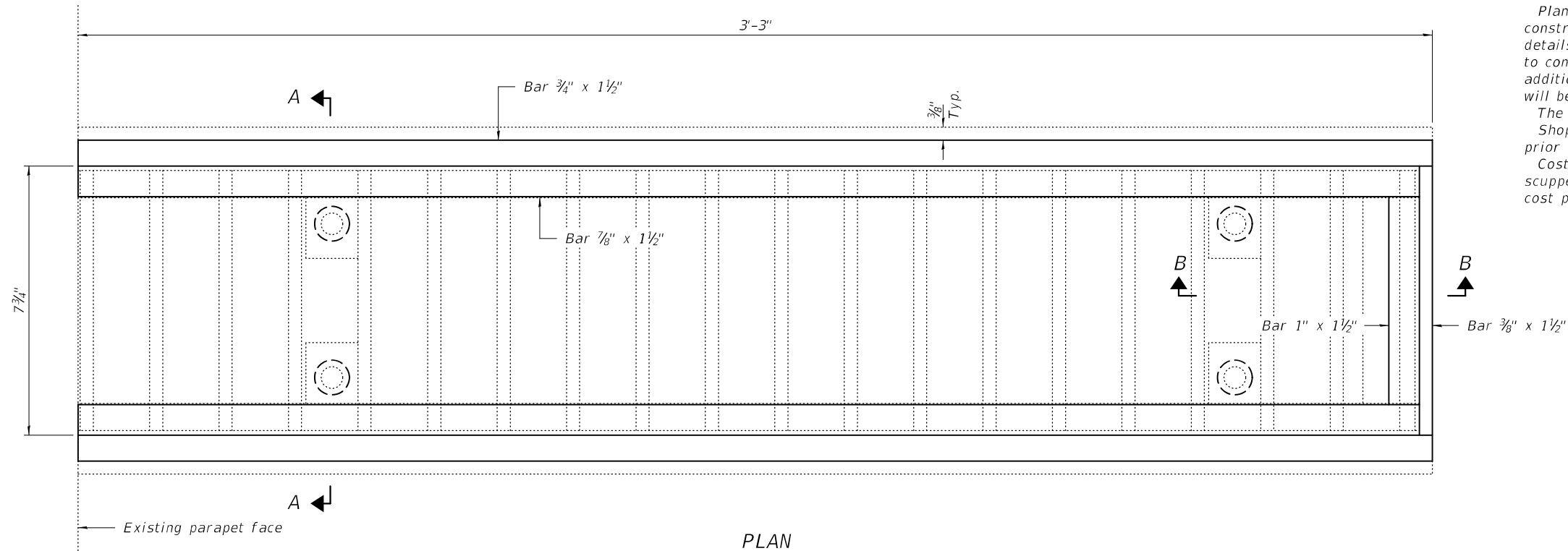
REPAIR "E" - SPAN 2, BEAM 1

REPAIR "E" - SECTION AT BEARING

DESIGNED - VHV	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - AUGUST 11, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEAM END REPAIRS "D" & "E" SN 028-0037	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - CCC	PASSED - <i>Carl R. Roper</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			873	D9 Bridge Deck Repair 2022-1	FRANKLIN	45	39
DRAWN - STEFFEN		REVISED -	SHEET NO. 4 OF 4 SHEETS		CONTRACT NO. 78848				
CHECKED - VHV CCC					ILLINOIS FED. AID PROJECT				

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36.
 The adjusting scupper ring shall be galvanized.
 Bolts shall be 1/2"Ø, AASHTO M164 Type I, mechanically galvanized.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 The contractor shall ensure that no damage is done to existing grates to be reused.
 Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.
 Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Drainage Scupper to be Adjusted.



BILL OF MATERIAL

Item	Unit	Total
Drainage Scupper to be Adjusted	Each	6

DESIGNED - VHV	EXAMINED - <i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - AUGUST 11, 2021
CHECKED - ATH	PASSED - <i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - VHV ATH		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SCUPPER ADJUSTMENT
 SN 028-0037**

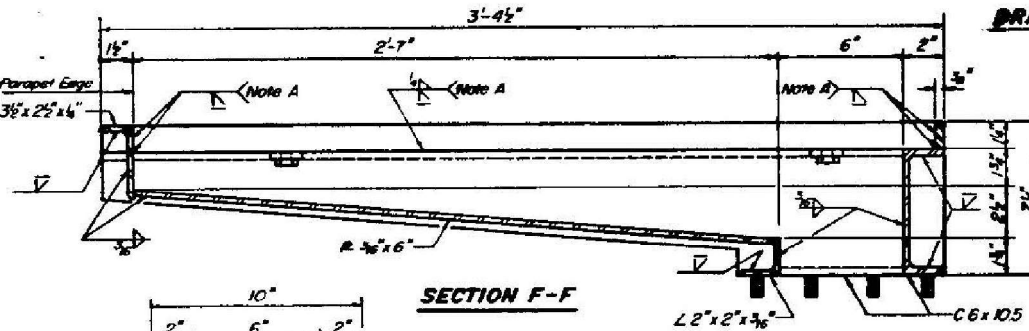
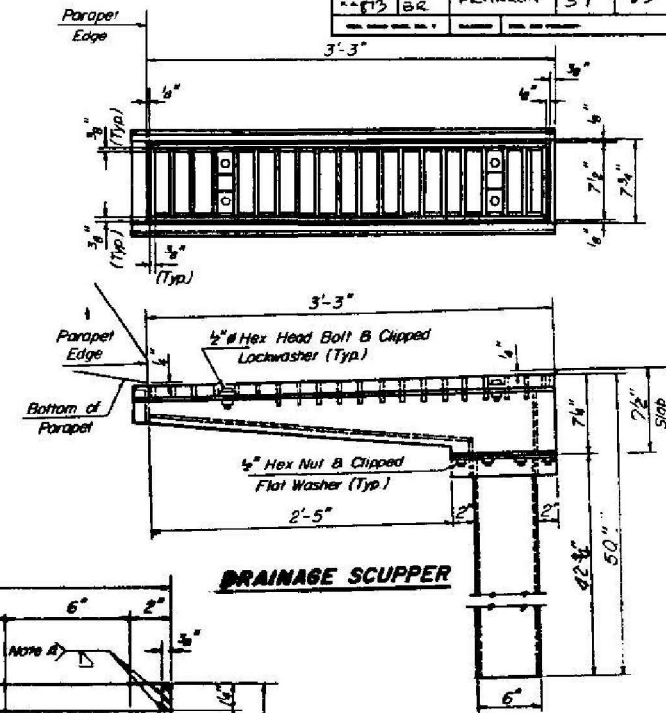
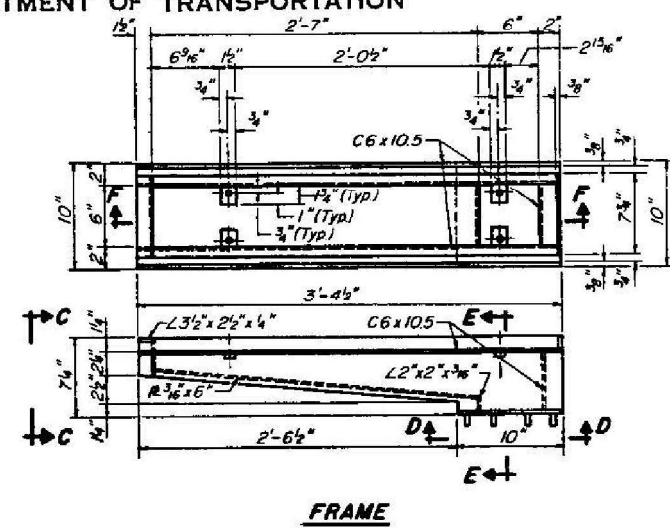
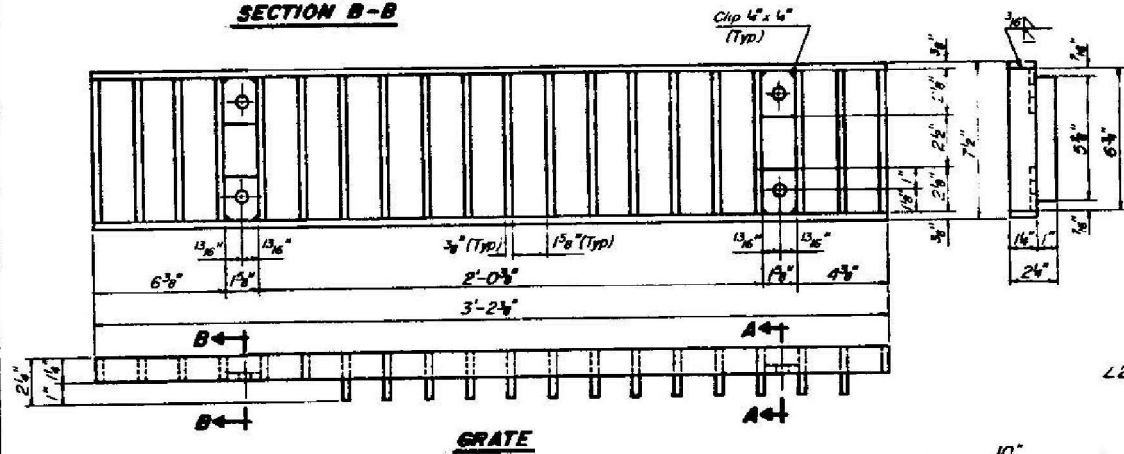
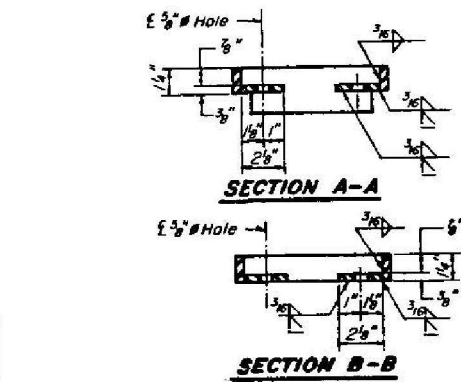
SHEET NO. - OF - SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	41
ILLINOIS			FED. AID PROJECT	

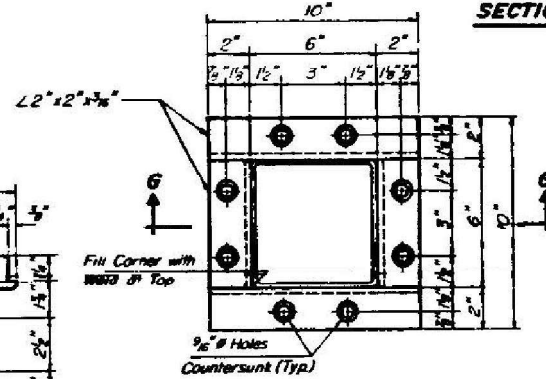
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105BC	BR	FRANKLIN	37	23

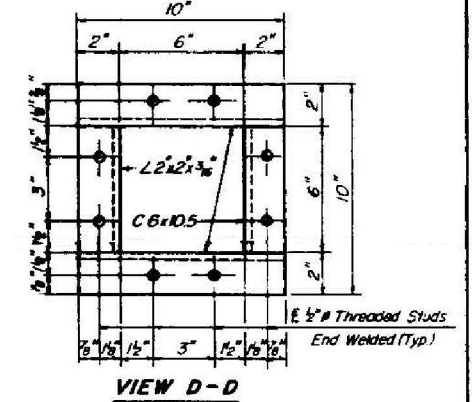
24 SHEETS



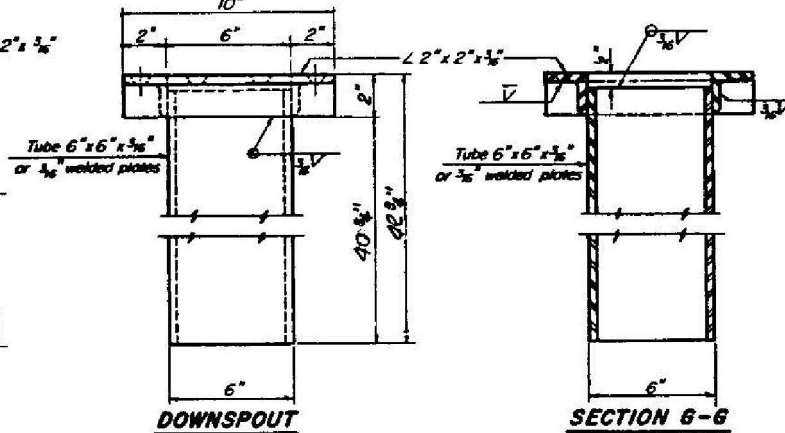
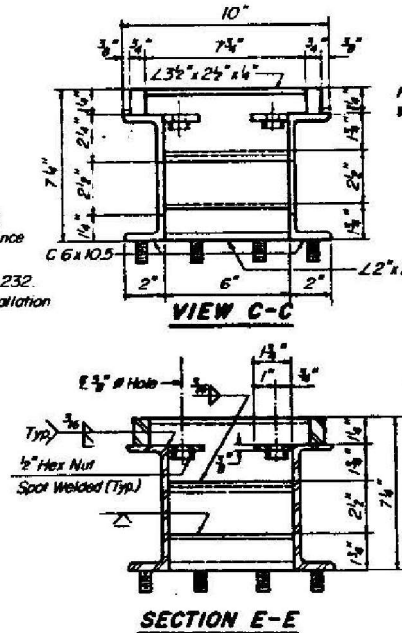
Note A Surface of welds shall be recessed 1/8" Max. or placed flush with inside face of bars to provide clearance for Grate.



FOR INFORMATION ONLY



Notes
Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B, or A-501 Structural Steel Tubing.
All other shapes, plates and bars shall conform to the requirements of A.A.S.H.T.O. M 183.
Bolts, studs, washers and nuts shall conform to the requirements of ASTM A-307. The Grate, Frame, and Downspout shall be galvanized after shop fabrication in accordance with A.A.S.H.T.O. M-111 & ASTM A-385.
All bolts, washers and nuts shall be galvanized in accordance with A.A.S.H.T.O. M 232.
Cost of the Grate, Frame, Downspout, Bolts, Washers and Nuts including complete installation of Scupper shall be paid for at the unit bid price for "DRAINAGE SCUPPERS".



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper	Each	6

(Sheet 1 of 2)
STEEL DRAINAGE SCUPPER
FA. RT. 873 SEC. 105 BC-BR
FRANKLIN COUNTY
STATION 607+20.00

DESIGNED: Shayla S. Ali
CHECKED: Sugeth Desai
DRAWN: Joe Sutherland
CHECKED: S.D.

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

Dec. 28, 1982

DS-3 12-1-83 (W.T. to inside of exterior stringer flange shall not be > 3'-11")

DESIGNED - VHV
CHECKED - ATH
DRAWN - daburdell
CHECKED - VHV ATH

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

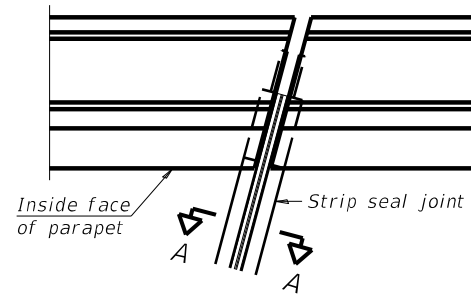
DATE - AUGUST 11, 2021
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

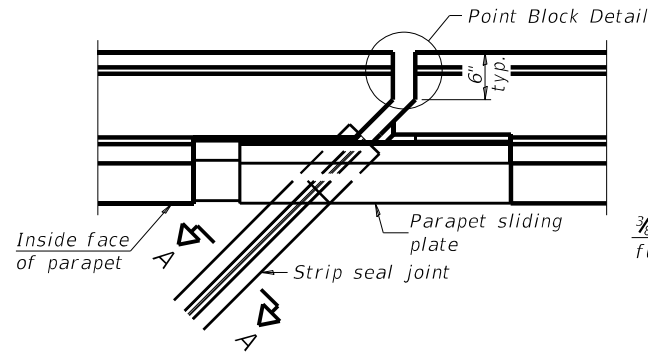
EXISTING SCUPPER - FOR INFORMATION ONLY
SN 028-0037

SHEET NO. - OF - SHEETS

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

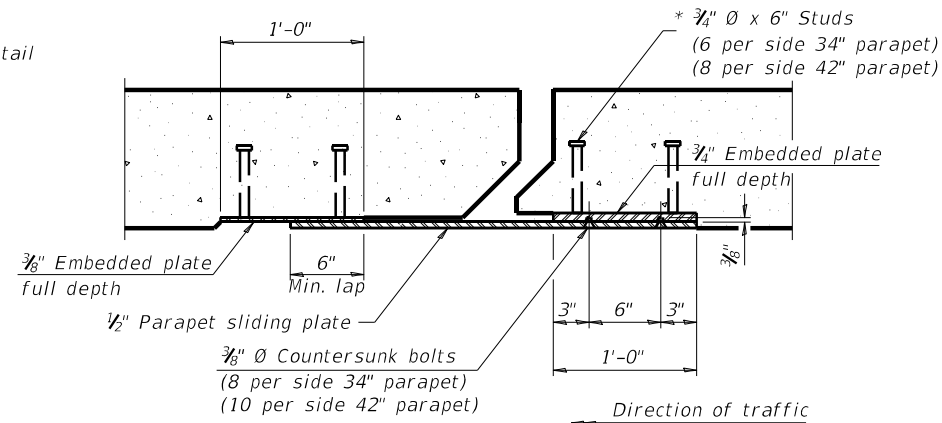


FOR SKEWS $\leq 30^\circ$

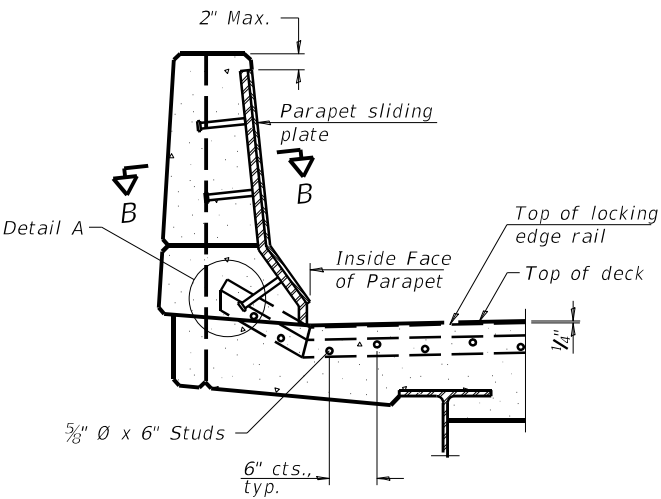


FOR SKEWS $> 30^\circ$

PLAN AT PARAPET

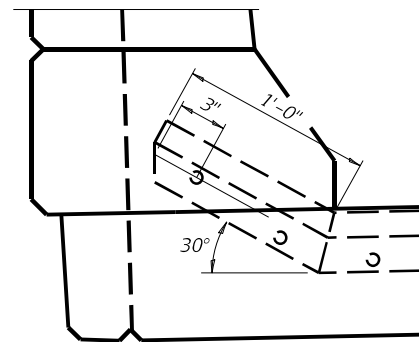


SECTION B-B



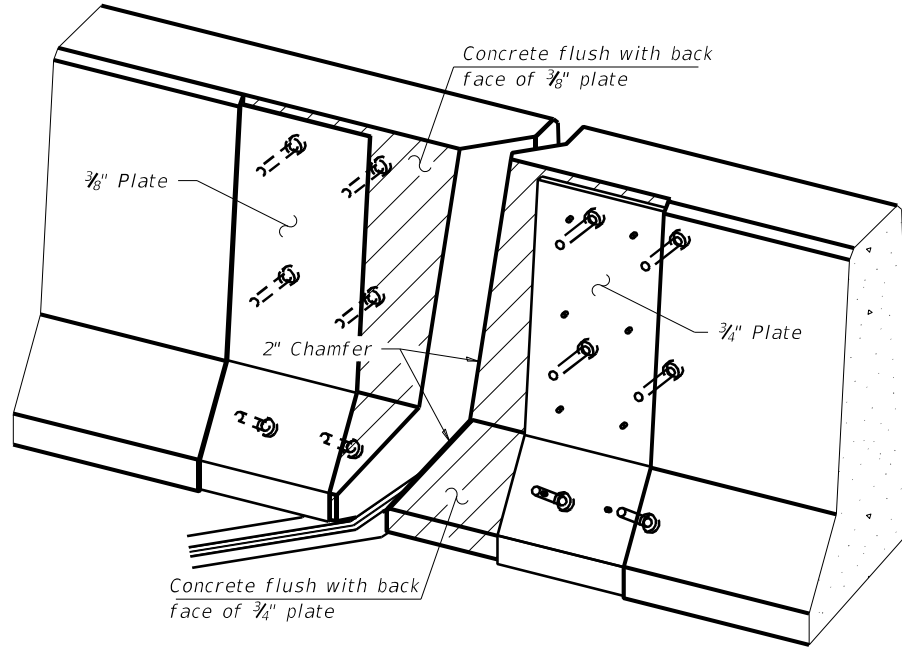
ELEVATION AT PARAPET

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



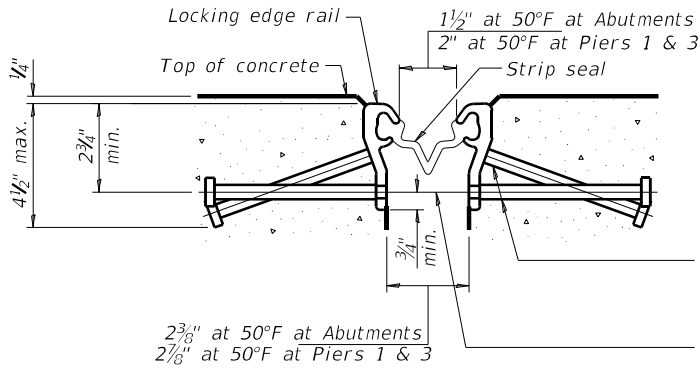
DETAIL A

(Abutments & Piers 1 & 3)



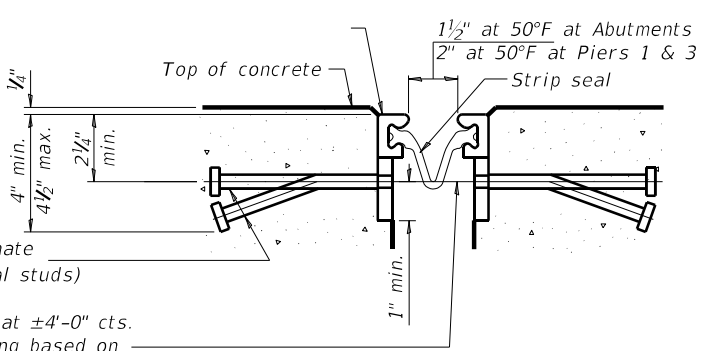
TRIMETRIC VIEW

(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

* $5/8$ inch diameter x 6 inch studs @ 6 inch cts. (alternate angled/bent studs with horizontal studs)

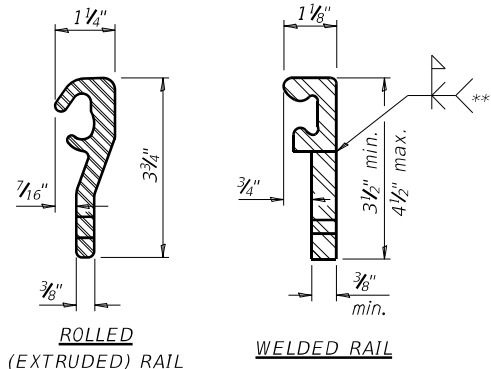


SHOWING WELDED RAIL JOINT

$3/8$ inch diameter threaded rods in $7/16$ inch diameter holes at ± 4 inch 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.

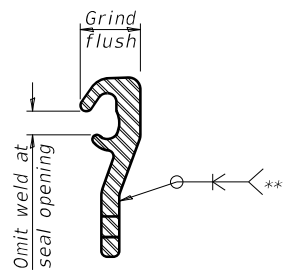
SECTION A-A

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



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	136

MODEL: Default
 FILE: I:\MSA\Projects\78848\BID\DOT\Documents\DOT Office\Detail\9 Projects\78848\CADD\Bids\09 2848-Sheets.dwg
 PROJECT: 78848
 OFFICE: DOT
 DATE: 8/12/2021

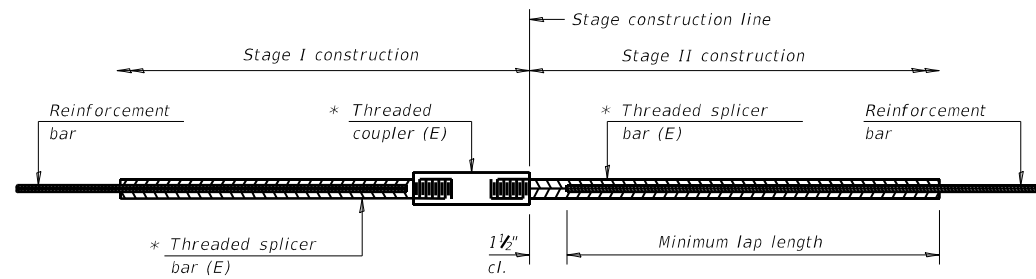
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PLOT DATE = 8/12/2021	CHECKED - MAS	REVISED -
	DATE - 2/22/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL DETAILS
SN 028-0037**

SCALE: _____ SHEET 6 OF 10 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	41
CONTRACT NO. 78848				
ILLINOIS FED. AID PROJECT				

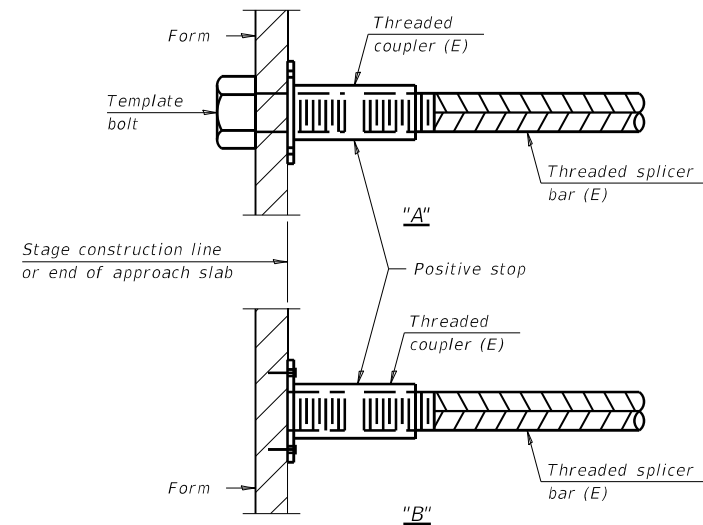


STANDARD BAR SPLICER ASSEMBLY

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

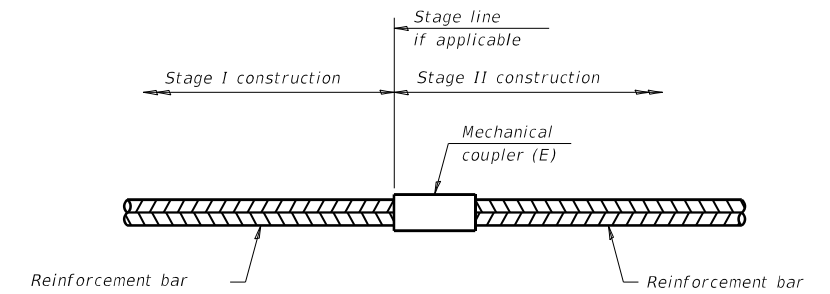
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	40	3'-0"



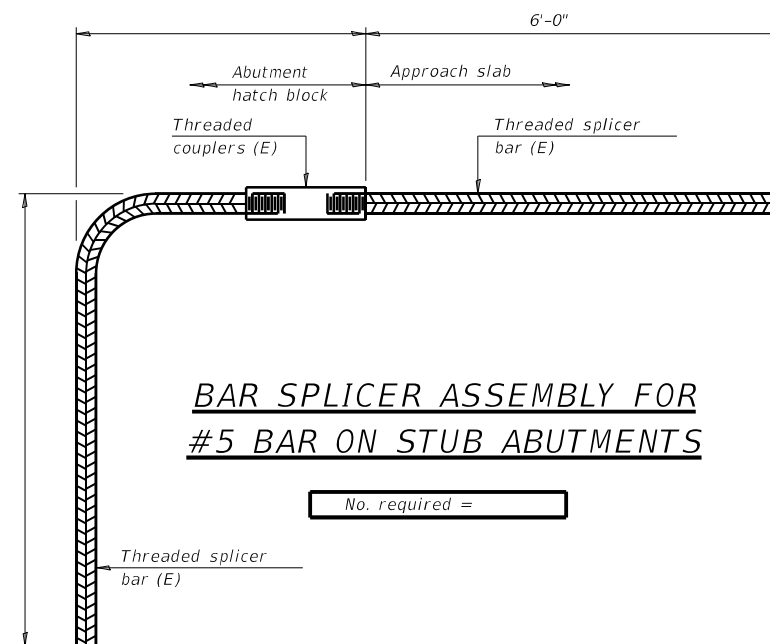
INSTALLATION AND SETTING METHODS

"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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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.

BAR SPLICER ASSEMBLY DETAILS
IL 149 OVER BIG MUDDY RIVER
F.A.P. 0873 - D9 BRIDGE DECK REPAIR 2022-1
FRANKLIN COUNTY
STRUCTURE NO. 028-0037

BSD-1 2-17-2017

M:\E:_Default\...
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 PROJECT: ...
 OFFICE: ...
 SHEET: ...

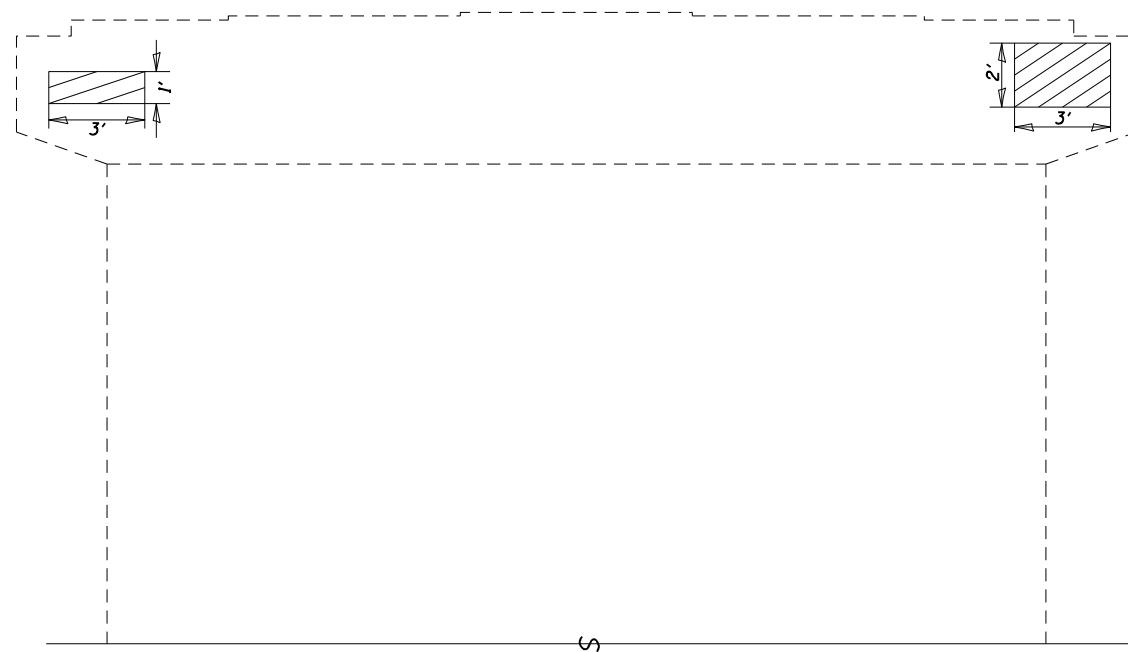
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DRAWN - ASH	CHECKED - MAS	REVISED -
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PLOT DATE = 8/12/2021		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

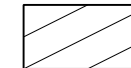
BAR SPLICER ASSEMBLY DETAILS
 SN 028-0037

SCALE: SHEET 7 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	42
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78848	



EAST SIDE VIEW PIER 1



Structural Repair of Concrete < 5"

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth < 5 Inches)	Sq. Ft.	9

Model: Default
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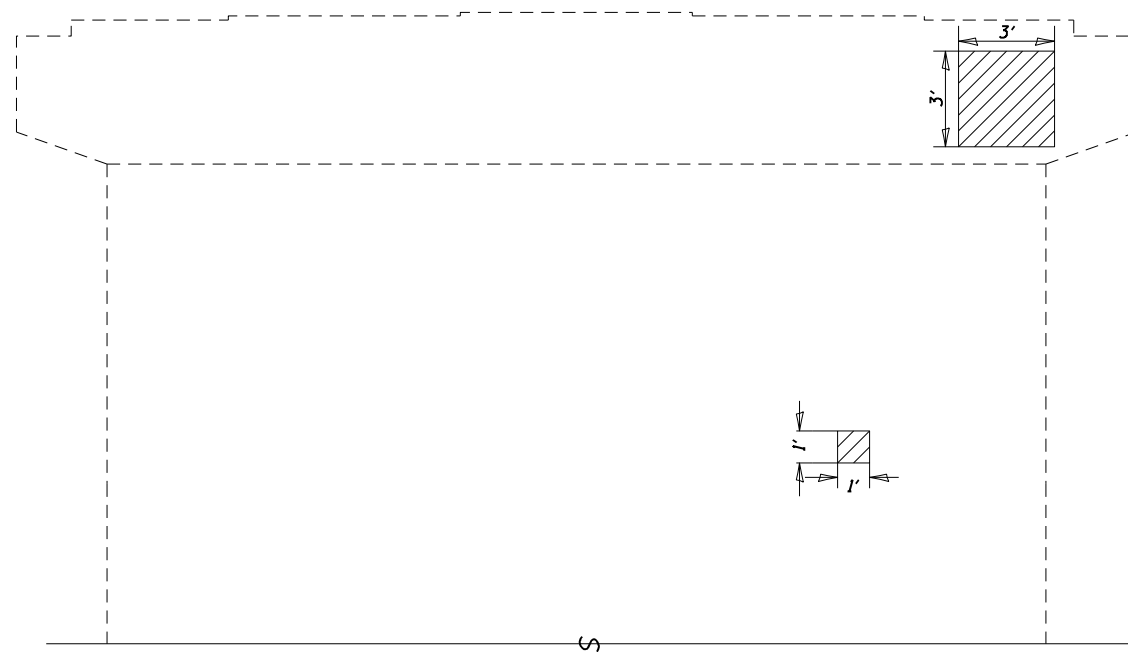
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	DRAWN - ASH	REVISED - _____
PLOT SCALE = 6.0000' / in.	CHECKED - MAS	REVISED - _____
PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

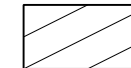
**PIER 1 SUBSTRUCTURE REPAIRS
SN 028-0037**

SCALE: _____ SHEET 9 OF 10 SHEETS STA. _____ TO STA. _____

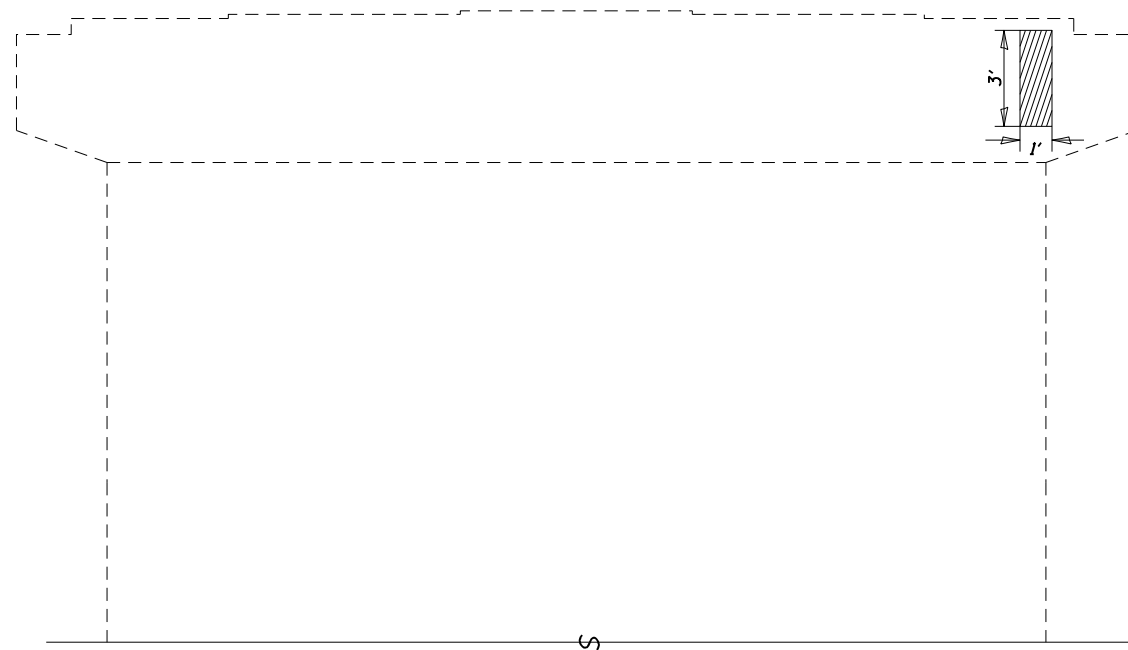
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1		45	43
			CONTRACT NO. 78848	
		ILLINOIS	FED. AID PROJECT	



EAST SIDE VIEW PIER 3



Structural Repair of Concrete < 5"



WEST SIDE VIEW PIER 3

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth < 5 Inches)	Sq. Ft.	13

MODEL: Default
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USER NAME = porterc	DESIGNED - ASH	REVISED - _____
	DRAWN - ASH	REVISED - _____
PLOT SCALE = 6.0000' / in.	CHECKED - MAS	REVISED - _____
PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISED - _____

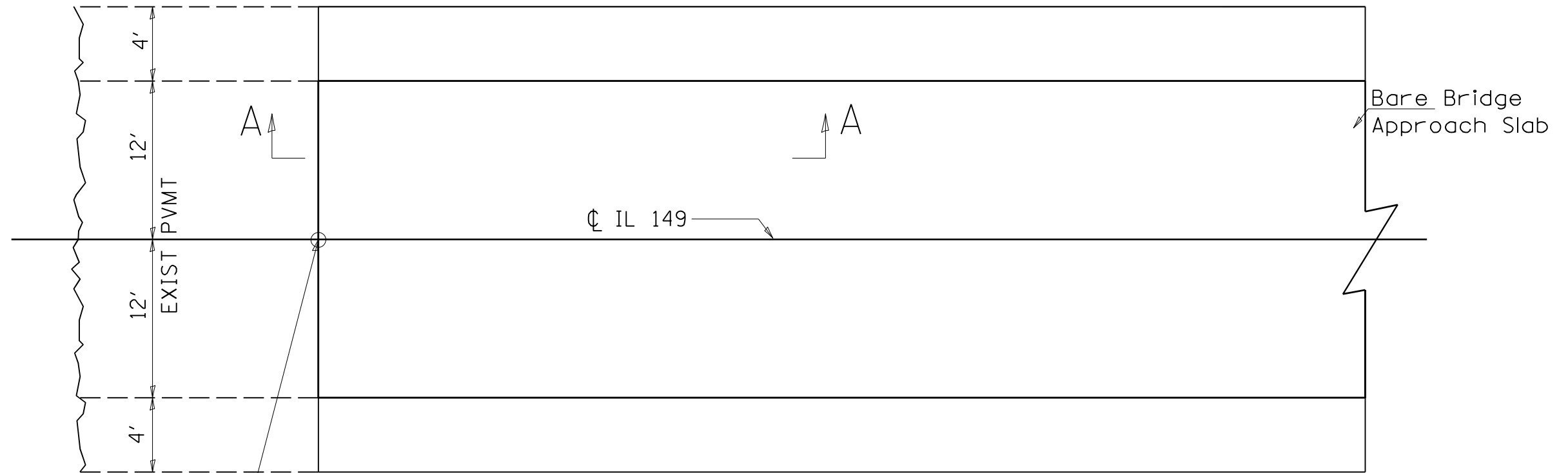
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 3 SUBSTRUCTURE REPAIRS
SN 028-0037**

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

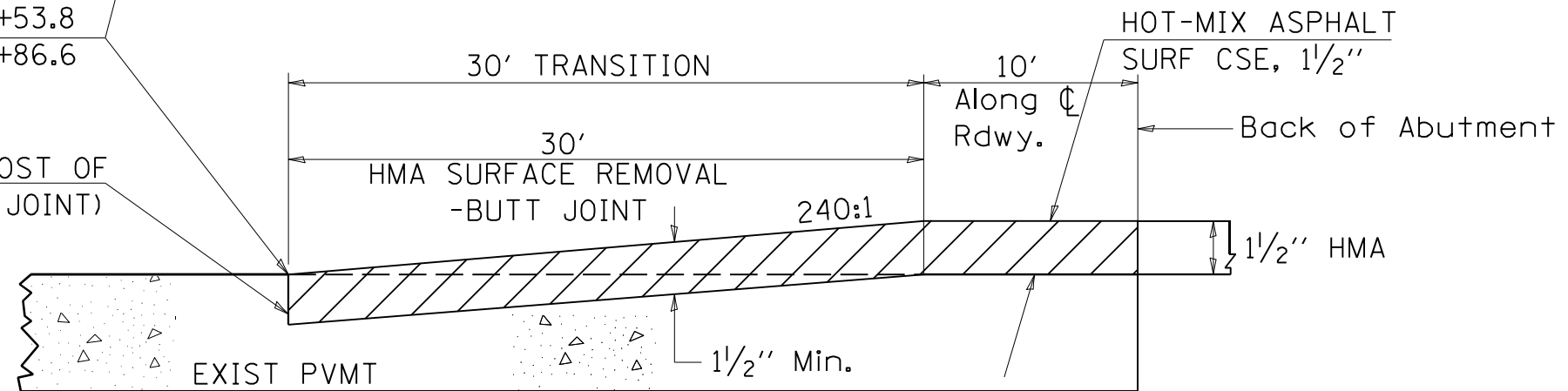
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VAR	D9 BRIDGE DECK REPAIR 2022-1		45	44
			CONTRACT NO. 78848	
		ILLINOIS	FED. AID PROJECT	

BUTT JOINT



STA 604+53.8
STA 609+86.6

SAW CUT (INCLUDED IN THE COST OF
HMA SURFACE REMOVAL-BUTT JOINT)



SECTION A-A

REVISIONS	
DRAWN	03-09-17
REVISED	
REVISED	
REVISED	

STD. 9-118

MODEL: Default
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USER NAME = porterc	DESIGNED - ASH	REVISED - _____
	DRAWN - ASH	REVISED - _____
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PLOT DATE = 8/12/2021	DATE - 2/22/2021	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT DETAIL
SN 028-0037**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D9 BRIDGE DECK REPAIR 2022-1	VARIOUS	45	45
			CONTRACT NO. 78848	
ILLINOIS FED. AID PROJECT				