

INDEX OF SHEETS

SEE SHEET NO. 2

TRAFFIC DATA

AADT = 4150 (2023)
MU = 1.2% (2023)
SU = 1.0% (2023)
HCV = 2.2% (2023)

DESIGN SPEED

55 MPH

ROADWAY DESIGN DESIGNATION

MINOR ARTERIAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

F.A.P. 304 (IL ROUTE 100)
SECTION 401-2B(BJR, BDS, BDR)-1
BRIDGE REHABILITATION
JERSEY COUNTY

C-98-184-24

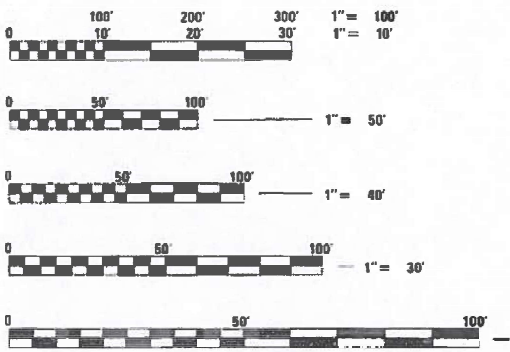
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304		JERSEY	29	1

401-2B(BJR, BDS, BDR)-1

D-98-097-24



LOCATION OF SECTION INDICATED THUS: -



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.

PROJECT ENGINEER: MESERET SIMA
PROJECT MANAGER: CHERYL KEPLAR

CONTRACT NO. 76U16



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 251.25 FT = .48 MILE
NET LENGTH = 251.25 FT = .48 MILE

PROJECT LOCATION
IL 100 OVER ELSAH CREEK
SN 042-0014
BEGIN STA. 581+14.37
END STA. 583+65.65
LATITUDE: 38.95110
LONGITUDE: -90.3624



Samantha M. Soto 2/5/2025
P.E. # 062-066034
LICENSE EXPIRES: NOVEMBER 30, 2025
HURST-ROSCHKE, INC.
SHEET RANGE: 1-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Feb 6 2025
Lola Remy ODM REGIONAL ENGINEER

March 21 2025
S. E. Etk ENGINEER OF DESIGN AND ENVIRONMENT

March 21 2025
Director of Highways Project Implementation

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, HIGHWAY STANDARDS, & COMMITMENTS
- 3-5 SUMMARY OF QUANTITIES
- 6 TYPICAL SECTIONS
- 7 SCHEDULES OF QUANTITES
- 8-9 REMOVAL PLAN
- 10-11 PLAN
- 12 STAGING TYPICAL SECTIONS
- 13-18 TRAFFIC STAGING PLAN
- 19-29 S.N. 042-0014

GENERAL NOTES

- 1. ALL ELEVATIONS REFER TO THE USGS MEAN SEA LEVEL DATUM.
- 2. FACTORS FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

HOT-MIX ASPHALT112.0 LB/SQ YD/IN.
- 3. TWO CHANGEABLE MESSAGE BOARDS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED 2 WEEKS PRIOR TO ANY LANE CLOSURE AND SHALL REMAIN UP FOR THE DURATION OF THE PROJECT. THE CHANGEABLE MESSAGE BOARDS WILL BE PLACED AT THE DIRECTION OF THE ENGINEER.
- 4. UTILITIES KNOWN TO HAVE FACILITIES WITHIN PROJECT AREA:

AT&T VILLAGE OF ELSAH (LIGHTING, SANITARY, ELECTRIC)
2ND FLOOR 51 MILL STREET
ALTON, IL 62002 PO BOX 28
ELSAH, IL 62028

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 420001-10 PAVEMENT JOINTS
- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 701416-11 LANE CLOSURE FREEWAY EXPRESSWAY WITH CROSSEVER AND BARRIER
- 701422-10 LANE CLOSURE MULTILANE 45-55 MPH
- 701426-09 LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATIONS 45 MPH OR MORE
- 701431-13 LANE CLOSURE, MULTILANE, UNDIV.WITH CROSSEVER, FOR SPEEDS > 45 MPH TP 55 MPH
- 701901-10 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

MIXTURE TABLE

LOCATION:	IL 100 - MAINLINE	IL 100 - MAINLINE	IL 100 - MEDIAN
MIXTURE USE:	SMA SURFACE, 1.5"	POLY BINDER .75"	TEMP PAVEMENT
PG:	SBS or SBR 76-28	SBS or SBR 76-28	PG 58-28
DESIGN AIR VOIDS:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL-9.5	IL-4.75	IL-4.75
FRICTION AGGREGATE:	MIX C	MIX C	N/A
MIXTURE WEIGHT:	112 LB/SQ YD/IN	112 LB/SQ YD/IN	112 LB/SQ YD/IN

*SEE SPECIAL PROVISIONS

COMMITMENTS

NONE

REV - MS

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MODEL: Default
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				CONSTR. CODE
				100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0047
				042-0014
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	444	444
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	652	652
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	49	49
40605020	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "C", N50	TON	98	98
44003100	MEDIAN REMOVAL	SQ FT	7844	7844
50102400	CONCRETE REMOVAL	CU YD	48.9	48.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	72.2	72.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8620	8620
50800515	BAR SPLICERS	EACH	52	52
58100210	FULL LANE SEALANT WATERPROOFING SYSTEM	SQ YD	1163	1163
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	7844	7844
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1

-Rev. SK

	Hurst-Rosche, Inc. PROFESSIONAL DESIGN FIRM, INC. (02188)		USER NAME = Kmittchell	DESIGNED - KMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	5 BANK SQUARE EAST ST. LOUIS, IL PH: 618.398.0890			DRAWN - KMM	REVISED -					304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	3
	PLOT SCALE = 2.000" / in.		CHECKED - KYH	REVISED +			SCALE:			CONTRACT NO. 76U16				
	PLOT DATE = 2/3/2025		DATE - 02/03/2025	REVISED +			SHEET 1	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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Hurst-Rosche, Inc.
PROFESSIONAL DESIGN & ENGINEERING
5 BANK SQUARE
EAST ST. LOUIS, IL
PH: 618.398.0890

USER NAME = Kmitcheil
PLOT SCALE = 2,000 ' / in.
PLOT DATE = 2/4/2025

DESIGNED - KMM
DRAWN - KMM
CHECKED - KYH
DATE - 02/03/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET 2	OF 3	SHEETS	STA.	TO STA.
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	4
CONTRACT NO. 76U16				
ILLINOIS FED. AID PROJECT				

				CONSTR. CODE
				100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0047
				042-0014
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	16459	16459
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	126	126
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	7427	7427
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	1132	1132
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3175	3175
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2625	2625
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	6	6
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	6	6
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4748	4748
X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	873	873
X7010214	TRAFFIC CONTROL AND PROTECTION, STANDARD 701431 (SPECIAL)	EACH	1	1
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	0.9	0.9

* SPECIALTY ITEM

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Hurst-Rosche, Inc.
PROFESSIONAL DESIGN & ENGINEERING
5 BANK SQUARE
EAST ST. LOUIS, IL
PH: 618.398.0890

USER NAME = Kmitcheil
PLOT SCALE = 2,000 ' / in.
PLOT DATE = 2/3/2025

DESIGNED - KMM
DRAWN - KMM
CHECKED - KYH
DATE - 02/03/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET 3	OF 3	SHEETS	STA.	TO STA.
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	5
CONTRACT NO. 76U16				
ILLINOIS		FED. AID PROJECT		

REV - MS

				CONSTR. CODE
				100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0047
				042-0014
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	1.5	1.5
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	1.2	1.2
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500
Z0062456	TEMPORARY PAVEMENT	SQ YD	873	873

Ø 0042

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Hurst-Rosche, Inc.
PROFESSIONAL DESIGN & ENGINEERING
5 BANK SQUARE
EAST ST. LOUIS, IL
PH: 618.398.0890

USER NAME = Kmitcheil	DESIGNED - KMM	REVISED -
	DRAWN - KMM	REVISED -
PLOT SCALE = 2,000 ' / in.	CHECKED - KYH	REVISED -
PLOT DATE = 2/4/2025	DATE - 02/03/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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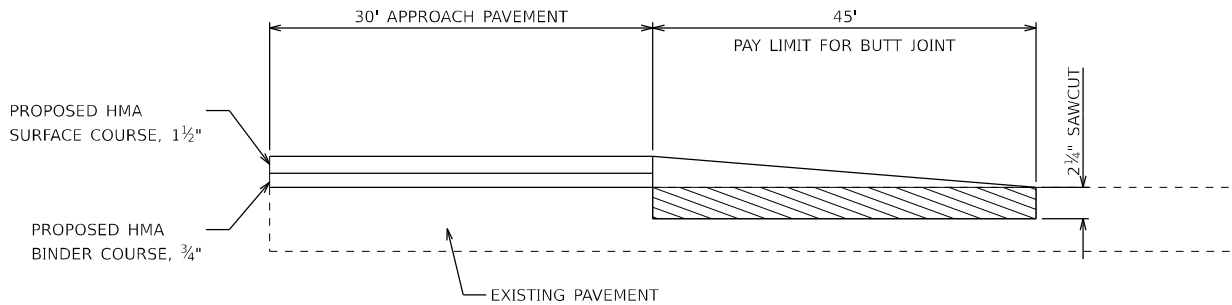
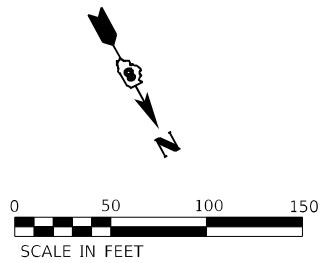
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304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	7
CONTRACT NO. 76U16				
		ILLINOIS	FED. AID PROJECT	

RESURFACING SCHEDULE									
LOCATION						POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N50
IL 100						POUND	SQ YD	TON	TON
S.N. 042-0014									
STA.	581+14.38	TO	STA.	581+59.38	LT	111	163	7	14
STA.	583+20.63	TO	STA.	583+65.63	LT	111	163	7	14
STA.	581+14.38	TO	STA.	581+59.38	RT	111	163	7	14
STA.	583+20.63	TO	STA.	583+65.63	RT	111	163	7	14
TOTALS						444	652	28	56

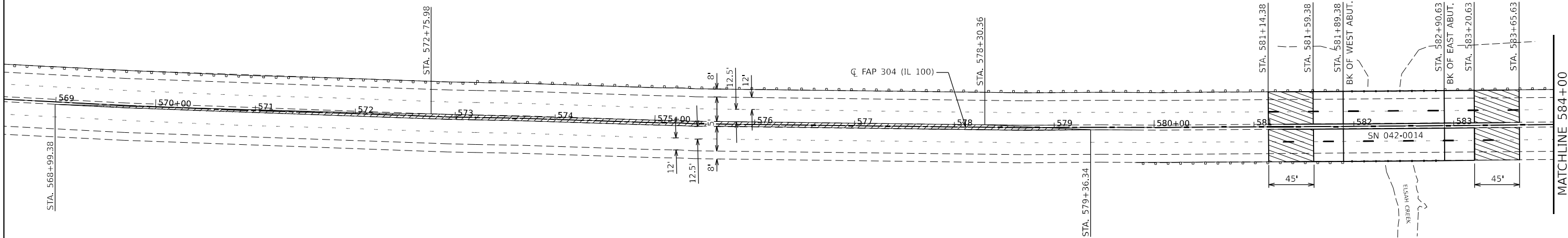
PAVEMENT MARKING SCHEDULE										
LOCATION								PAVEMENT MARKING BLACKOUT TAPE, 5"	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	SHORT TERM PAVEMENT MARKING
IL 100								FOOT	FOOT	FOOT
TYPE								FOOT	SQ FT	FOOT
S.N. 042-0014										
STAGE I										
STA.	578+43.47	TO	STA.	588+48.11	SKIP DASH WHITE	LANE	LT	252		105
STA.	573+07.34	TO	STA.	609+19.06	SOLID WHITE	EDGE	LT	7224		3010
STAGE II										
STA.	580+05.05	TO	STA.	593+02.72	SKIP DASH WHITE	LANE	RT	325		136
SIA.	554+65.13	TO	SIA.	597+94.00	SOLID WHITE	EDGE	RT	8658		3608
POST-STAGE										
STA.	581+14.38	TO	STA.	583+65.63	DOUBLE WHITE LINE	EDGE	LT		503	252
STA.	581+14.38	TO	STA.	583+65.63	DOUBLE WHITE LINE	EDGE	RT		503	252
STA.	581+14.38	TO	STA.	583+65.63	SOLID YELLOW	C/L	RT			252
STA.	581+14.38	TO	STA.	583+65.63	SOLID YELLOW	C/L	LT			252
STA.	581+14.38	TO	STA.	583+65.63	SKIP DASH WHITE	LANE	LT		63	63
STA.	581+14.38	TO	STA.	583+65.63	SKIP DASH WHITE	LANE	RT		63	63
STA.	568+99.38	TO	STA.	579+36.34	SOLID YELLOW	C/L	RT			1037
STA.	572+75.98	TO	STA.	578+30.36	SOLID YELLOW	C/L	LT			554
STA.	589+79.85	TO	STA.	593+57.45	SOLID YELLOW	C/L	RT			378
STA.	593+57.45	TO	STA.	597+63.72	SOLID YELLOW	C/L	RT			406
STA.	588+58.51	TO	STA.	591+76.24	SOLID YELLOW	C/L	LT			318
STA.	595+13.09	TO	STA.	599+32.50	SOLID YELLOW	C/L	LT			419
TOTALS								16459	1132	126

TEMPORARY CONCRETE BARRIER SCHEDULE						
LOCATION			TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3
STATION		OFFSET	FOOT	FOOT	EACH	EACH
S.N. 042-0014						
STAGE I						
573+07.34	TO	585+61.18	LT	1262.5	2	
578+42.20	TO	585+25.79	LT/RT	700.0	2	
587+24.72	TO	593+76.74	LT/RT	662.5	2	
STAGE II						
574+10.88	TO	585+50.46	RT		1150.0	2
578+00.00	TO	587+41.16	LT/RT		950.0	2
587+24.82	TO	597+94.00	LT/RT	550.0	525.0	2
TOTAL			3175.0	2625.0	6	6

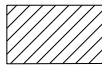
MEDIAN SCHEDULE					
LOCATION		MEDIAN REMOVAL	CONCRETE MEDIAN, TYPE SB-6.06	TEMPORARY PAVEMENT REMOVAL	TEMPORARY PAVEMENT
STATION		OFFSET	SQ.FT	SQ.FT	SQ.YD
S.N. 042-0014					
PRE-STAGE					
568+99.38	TO	579+36.34	LT/RT	4073	453
588+58.51	TO	593+57.45	LT/RT	1709	190
593+57.45	TO	599+32.50	LT/RT	2062	230
POST-STAGE					
568+99.38	TO	579+36.34	LT/RT	4073	453
588+58.51	TO	593+57.45	LT/RT	1709	190
593+57.45	TO	599+32.50	LT/RT	2062	230
		TOTALS	7844	7844	873



BUTT JOINT DETAIL

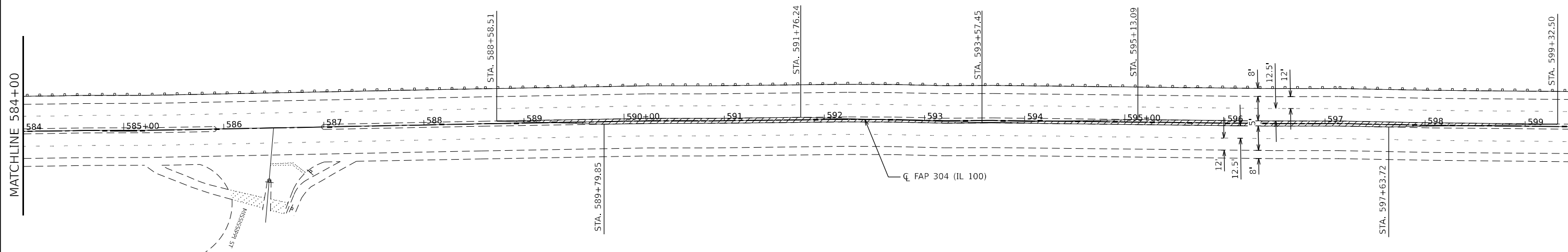
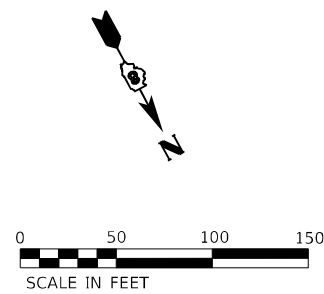


LEGEND

-  BUTT JOINT ASPHALT REMOVAL - SEE BUTT-JOINT DETAIL
-  MEDIAN REMOVAL

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PROJECT: 5 Bank Square - East St. Louis, IL - FAP 304 (IL 100) - Repair - WOG 111.Dgn
PROJECT: 5 Bank Square - East St. Louis, IL - FAP 304 (IL 100) - Repair - WOG 111.Dgn

	Hurst-Rosche, Inc. 5 BANK SQUARE EAST ST. LOUIS, IL PH: 618.398.0890	USER NAME = Kmitcheil		DESIGNED - KMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN S.N. 042-0014				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - KMM		CHECKED - KYH	REVISED -						304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	8
		PLOT SCALE = 100,0000 ' / in.		DATE - 02/03/2025	REVISED -		SCALE: 1" = 50'				CONTRACT NO. 76U16				
		PLOT DATE = 2/3/2025					SHEET 1 OF 2 SHEETS				ILLINOIS FED. AID PROJECT				



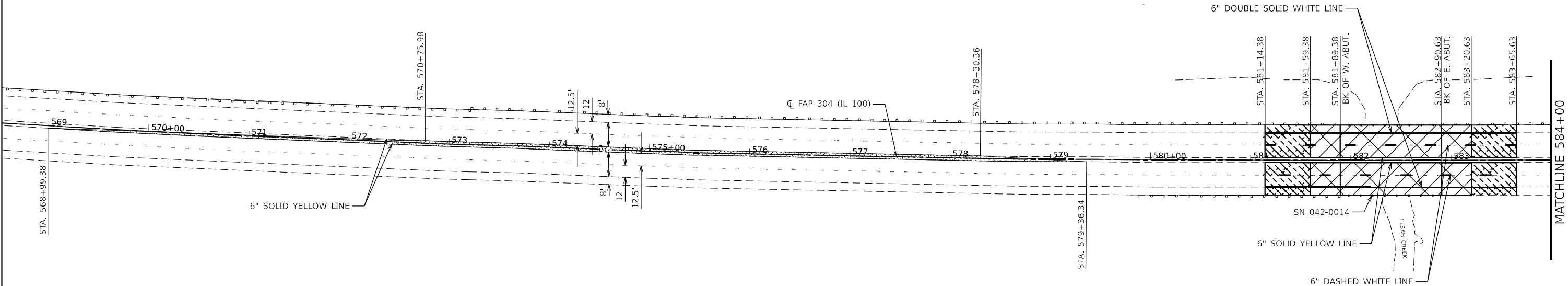
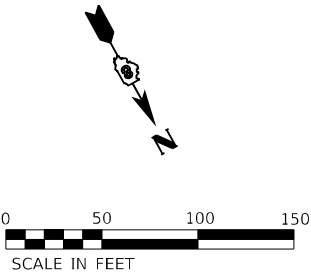
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BUTT JOINT ASPHALT REMOVAL - SEE BUTT-JOINT DETAIL



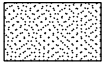
MEDIAN REMOVAL



LEGEND



PROPOSED BRIDGE DECK REPAIR
HOT-MIX ASPHALT OVERLAY 2¼"



PROPOSED CONCRETE MEDIAN, TYPE SB-6.06



PROPOSED HMA PAVEMENT - SEE BUTT-JOINT DETAILS

MODEL: Default
FILE NAME: C:\Users\jgallagher\Documents\Current\192-1134 IDOT DB - FAP 304 (IL 100) - Repair-WG 111Dgn\76U16-shs-bn-01.dgn



Hurst-Rosche, Inc.
PROFESSIONAL ENGINEERING FIRM
5 BANK SQUARE
EAST ST. LOUIS, IL
PH: 618.398.0890

USER NAME	= Kmitcheil
PLOT SCALE	= 100,000 * / in.
PLOT DATE	= 2/3/2025

DESIGNED -	KMM
DRAWN -	KMM
CHECKED -	KYH
DATE -	02/03/2025

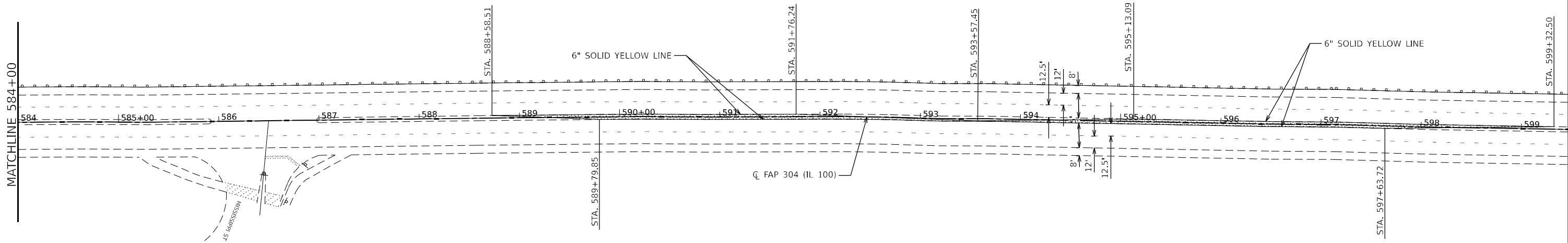
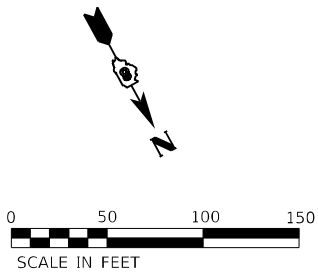
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN
S.N. 042-0014

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 568+99.38 TO STA. 584+00.00

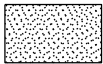
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	10
CONTRACT NO. 76U16				
ILLINOIS FED. AID PROJECT				



LEGEND



PROPOSED BRIDGE DECK REPAIR
HMA OVERLAY 2 1/4"



PROPOSED CONCRETE MEDIAN, TYPE SB-6.06



PROPOSED HMA PAVEMENT - SEE BUTT-JOINT DETAILS

MODEL: Default
FILE: 304-2B(01)Objects(Current)02-1134 IDOT DB - FAP 304 (IL 100) - Repair-WG 111Dgn\76U16-shs-bn-02.dgn



Hurst-Rosche, Inc.
PROFESSIONAL ENGINEERING FIRM
5 BANK SQUARE
EAST ST. LOUIS, IL
PH: 618.398.0890

USER NAME = Kmitcheil
PLOT SCALE = 100,000 * / in.
PLOT DATE = 2/3/2025

DESIGNED - KMM
DRAWN - KMM
CHECKED - KYH
DATE - 02/03/2025

REVISED -
REVISED -
REVISED -
REVISED -

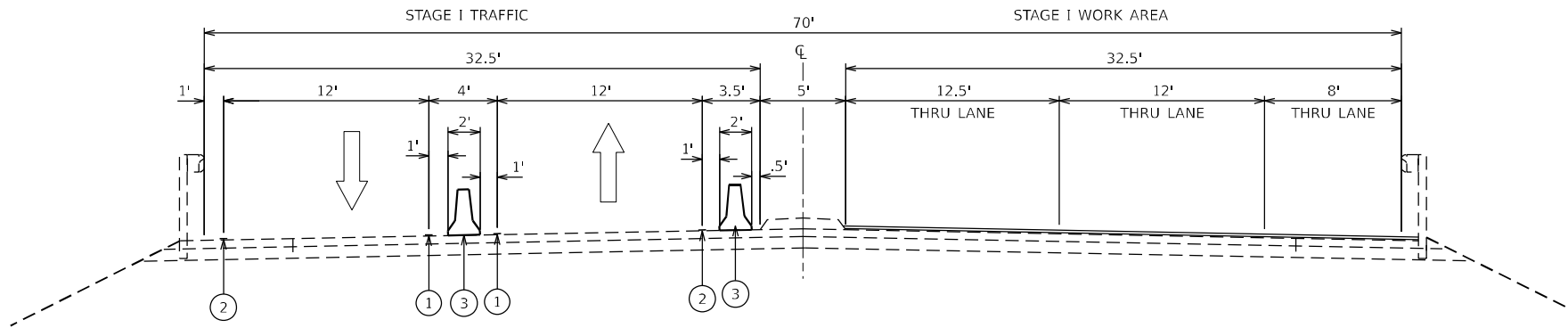
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN
S.N. 042-0014

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 584+00.00 TO STA. 599+32.50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	11
CONTRACT NO. 76U16				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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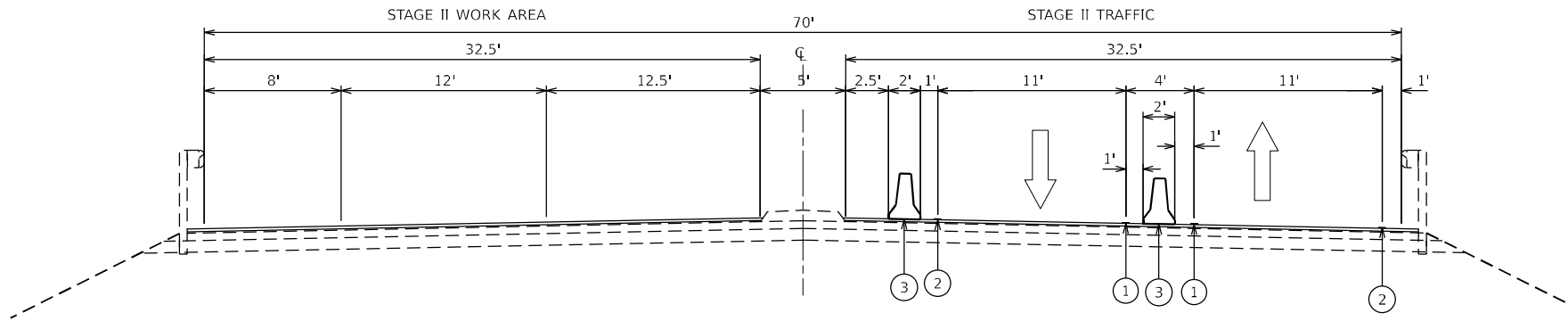
STAGE I TYPICAL SECTION

LOOKING NORTH

STA. 581+14.38 TO STA. 581+59.38
STA. 583+20.63 TO STA. 583+65.63

LEGEND

- ① TEMPORARY PAVEMENT MARKING, 4" SOLID YELLOW LINE
- ② TEMPORARY PAVEMENT MARKING, 4" SOLID WHITE LINE
- ③ TEMPORARY CONCRETE BARRIER



STAGE II TYPICAL SECTION

LOOKING NORTH

STA. 581+14.38 TO STA. 581+59.38
STA. 583+20.63 TO STA. 583+65.63

STAGE CONSTRUCTION NOTES

PRE-STAGE TRAFFIC

USE HIGHWAY STANDARDS 701422 FOR TRAFFIC CONTROL.

PRE-STAGE CONSTRUCTION

REMOVE EXISTING CONCRETE MEDIANS NORTH AND SOUTH OF THE BRIDGE AND REPLACE WITH TEMPORARY PAVEMENT. SEE REMOVAL PLANS FOR STATIONING.

STAGE I TRAFFIC

CLOSE NORTHBOUND LANE TO TRAFFIC. TWO LANE TRAFFIC IN EXISTING SOUTHBOUND LANES AND SHOULDER USING A CROSSOVER TO SHIFT NORTHBOUND TRAFFIC BEFORE AND AFTER THE CONSTRUCTION ZONE USING HIGHWAY STANDARD 701431 (SPECIAL) AND AS DETAILED IN THE STAGING TYPICAL AND TRAFFIC STAGING PLANS.

STAGE I CONSTRUCTION

STAGE I BRIDGE REPAIRS AS DETAILED IN THE BRIDGE PLANS AND HMA OVERLAY AND BUTT JOINT FOR NORTHBOUND LANES.

STAGE II TRAFFIC

CLOSE SOUTHBOUND LANES TO TRAFFIC. TWO LANE TRAFFIC IN EXISTING NORTHBOUND LAND AND SHOULDER USING A CROSSOVER TO SHIFT SOUTHBOUND TRAFFIC BEFORE AND AFTER THE CONSTRUCTION ZONE USING HIGHWAY STANDARD 701431 (SPECIAL) AND AS DETAILED IN THE STAGING TYPICAL AND TRAFFIC STAGING PLANS.

STAGE II CONSTRUCTION

STAGE II BRIDGE REPAIRS AS DETAILED IN THE BRIDGE PLANS AND HMA OVERLAY AND BUTT JOINT FOR SOUTHBOUND LANES.

POST-STAGE TRAFFIC

USE HIGHWAY STANDARDS 701422 FOR TRAFFIC CONTROL.

POST-STAGE CONSTRUCTION

REMOVE TEMPORARY PAVEMENT NORTH AND SOUTH OF THE BRIDGE AND REPLACE WITH PROPOSED CONCRETE MEDIAN. SEE ROADWAY PLANS FOR STATIONING.

GENERAL STAGING NOTES

USE HIGHWAY STANDARD 701426 FOR SUPPLEMENTAL STAGING DETAILS SUCH AS SIGNING.

STAGING DETAILS ARE SUBJECT TO CHANGE DUE TO EXISTING FIELD CONDITIONS.

THE CONTRACTOR SHALL PROVIDE AND PLACE FOUR (4) 'BIKE TRAIL CLOSED' SIGNS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTCTION 701431 SPECIAL.



Hurst-Rosche, Inc.
PROFESSIONAL DESIGN FIRM
5 BANK SQUARE
EAST ST. LOUIS, IL
PH: 618.398.0890

USER NAME = Kmitcheil	DESIGNED - KMM	REVISED -
DRAWN - KMM	REVISED -	
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PLOT DATE = 2/5/2025	DATE - 02/03/2025	REVISED -

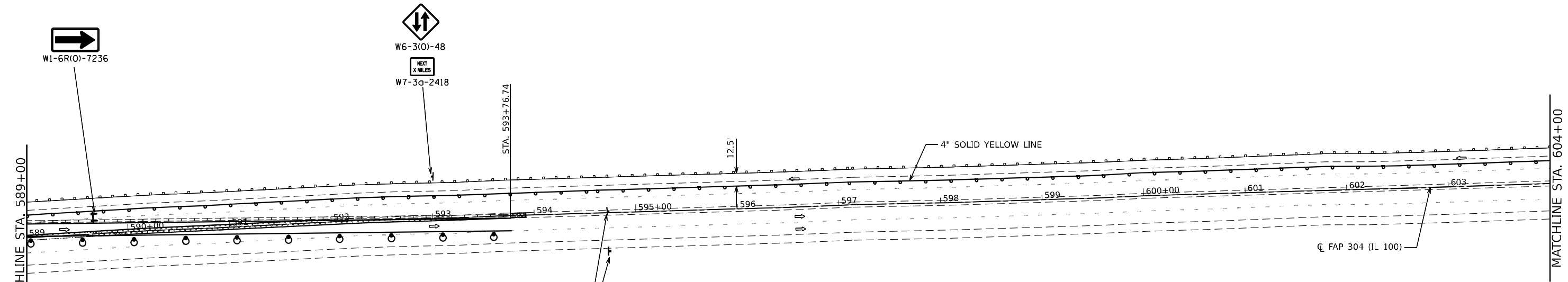
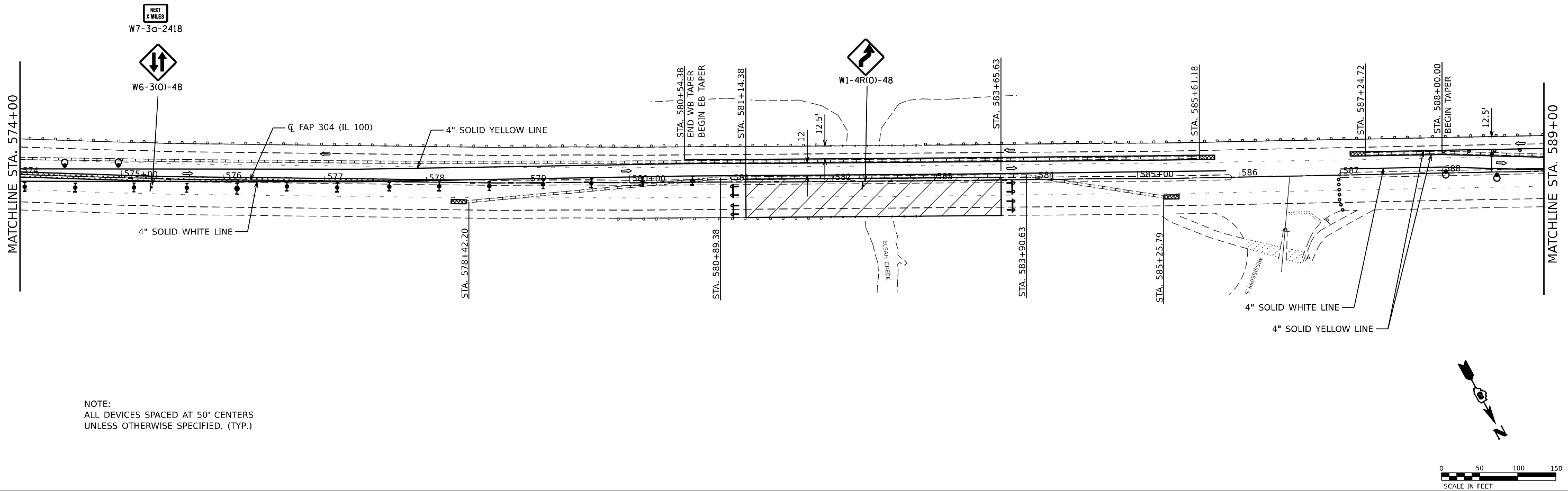
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING TYPICAL SECTION

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	12
CONTRACT NO. 76U16				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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LEGEND

- | | | | |
|--|---|--|--|
| | WORK AREA | | TEMPORARY PAVEMENT |
| | IMPACT ATTENUATOR | | DRUM |
| | TEMPORARY CONCRETE BARRIER | | DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT |
| | SIGN | | TUBULAR MARKER |
| | TYPE III BARRICADE WITH FLASHING LIGHTS | | ARROW BOARD |
| | TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT | | DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT |



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PROFESSIONAL DESIGN & ENGINEERING
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EAST ST. LOUIS, IL
PH: 618.398.0890

USER NAME = Kmitcheil	DESIGNED - KMM	REVISED -
DRAWN - KMM	REVISED -	
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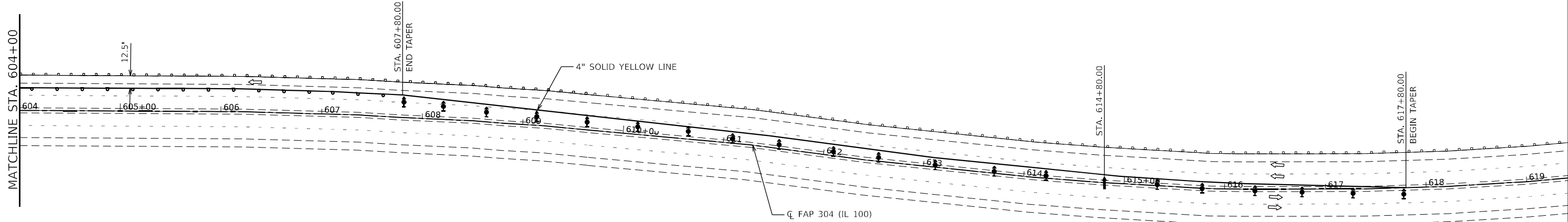
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC STAGING PLAN - STAGE I

SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. 574+00.00 TO STA. 604+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76U16				
ILLINOIS FED. AID PROJECT				

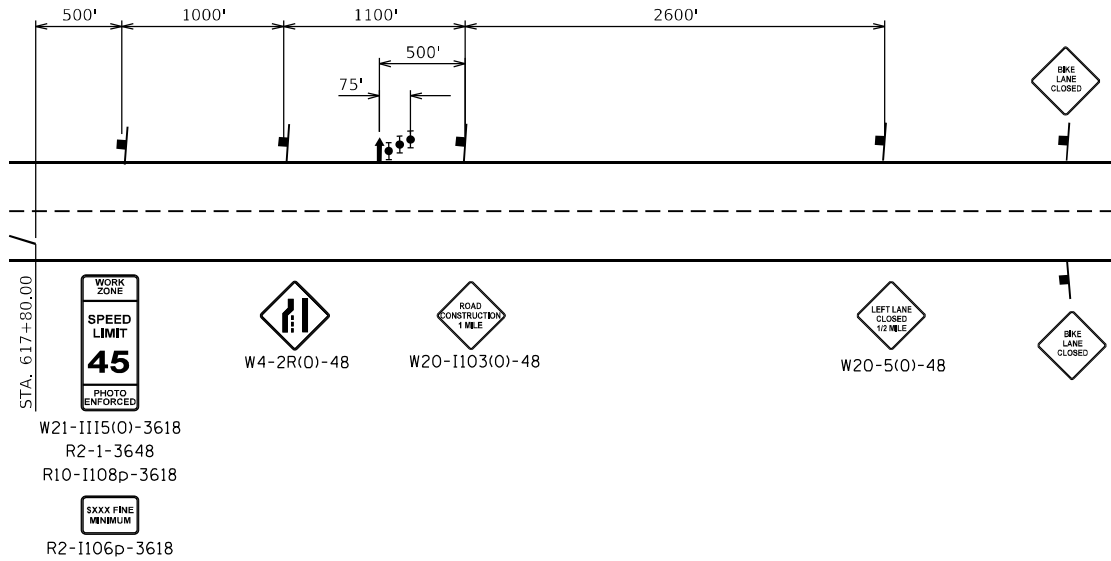
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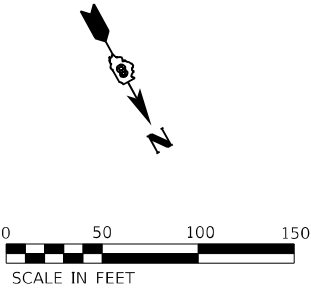
NOTE:
ALL DEVICES SPACED AT 50' CENTERS
UNLESS OTHERWISE SPECIFIED. (TYP.)

LEGEND

- | | | | |
|--|---|--|--|
| | WORK AREA | | TEMPORARY PAVEMENT |
| | IMPACT ATTENUATOR | | DRUM |
| | TEMPORARY CONCRETE BARRIER | | DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT |
| | SIGN | | TUBULAR MARKER |
| | TYPE III BARRICADE WITH FLASHING LIGHTS | | ARROW BOARD |
| | TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT | | DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT |



ADVANCE SIGNING



Hurst-Rosche, Inc.
5 BANK SQUARE
EAST ST. LOUIS, IL
PH: 618.398.0890

USER NAME = HURST-ROSCH
PLOT SCALE = 100,000 * / in.
PLOT DATE = 2/7/2025

DESIGNED - KMM
DRAWN - KMM
CHECKED - KYH
DATE - 02/03/2025

REVISED -
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REVISED -

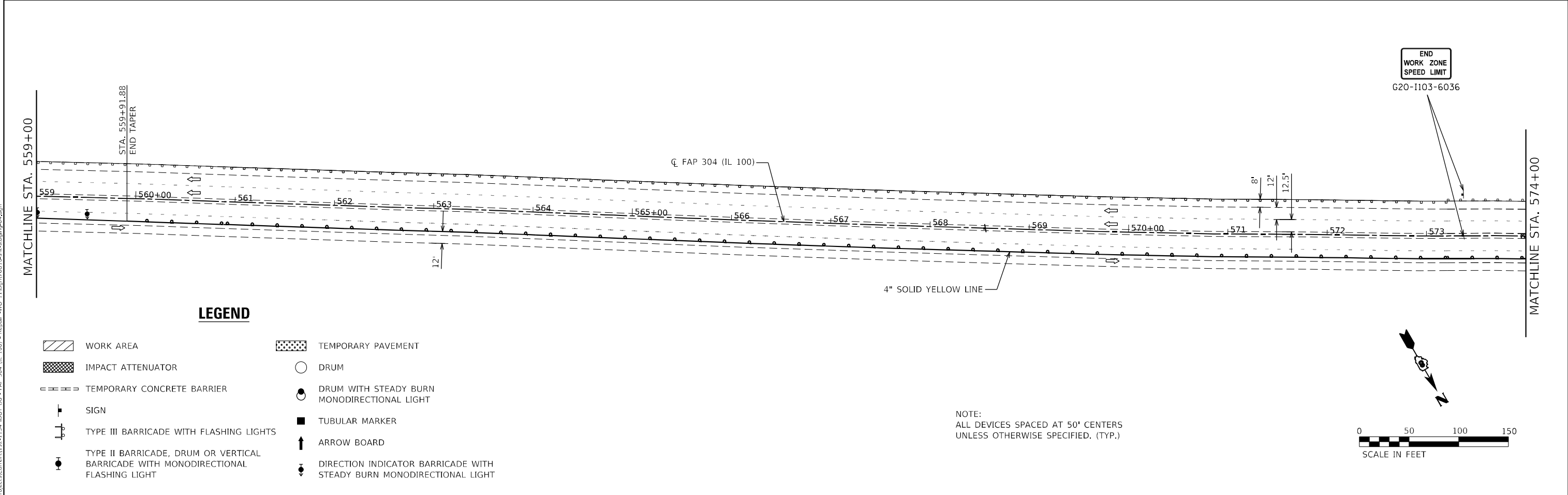
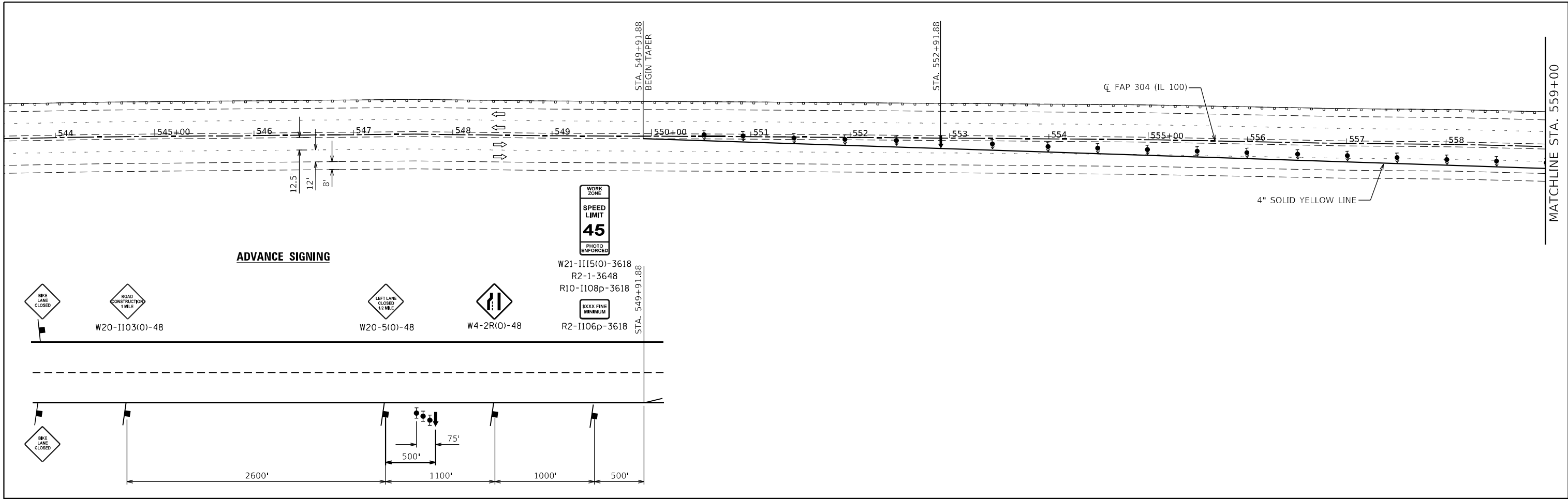
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC STAGING PLAN – STAGE I

SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. 604+00 TO STA. 617+80.00

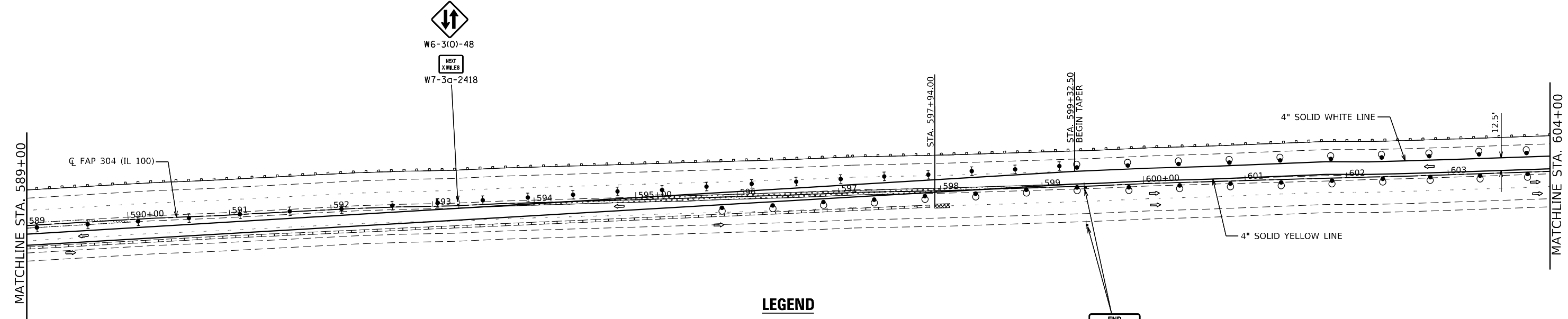
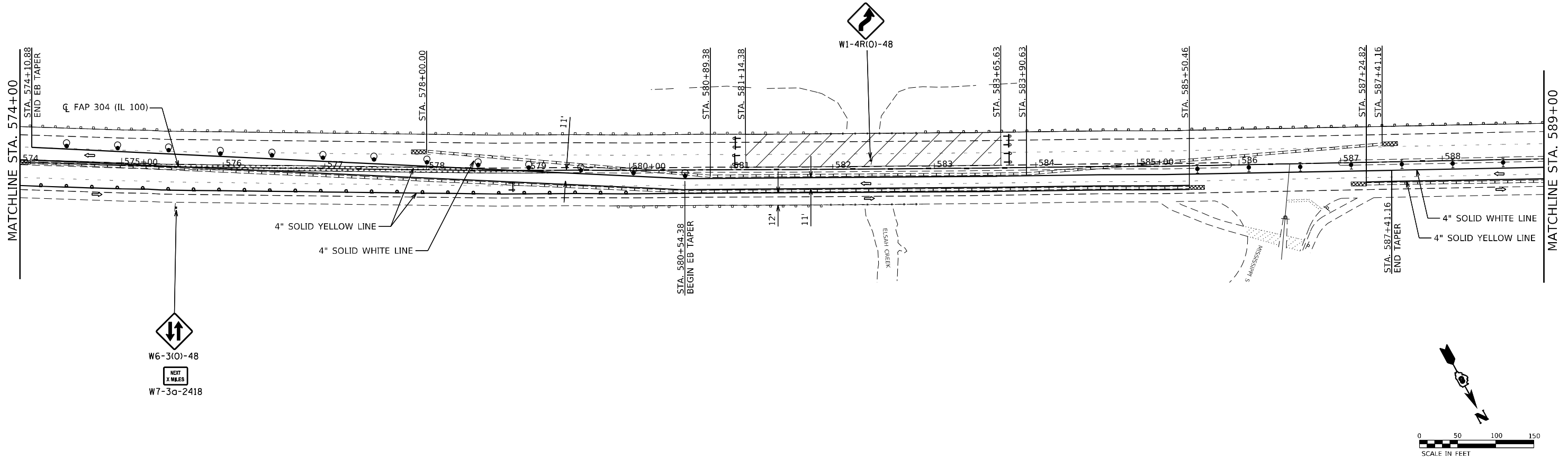
F&P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76U16				
ILLINOIS FED. AID PROJECT				

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	Hurst-Rosche, Inc. PROFESSIONAL ENGINEER 5 BANK SQUARE EAST ST. LOUIS, IL PH: 618.398.0890	USER NAME = HURST-ROSCHE		DESIGNED - KMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC STAGING PLAN – STAGE II					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		PLOT SCALE = 100,000' / in.		DATE - 02/03/2025	REVISED -		CONTRACT NO. 76U16									
		PLOT DATE = 2/7/2025					ILLINOIS FED. AID PROJECT									
				SCALE: 1" = 50'			SHEET 1	OF 3	SHEETS	STA. 549+91.88 TO STA. 574+00.00						

MODEL: 414001.DGN
FILE: 414001.DGN
PROJECT: 414001.DGN
SHEET: 414001.DGN
DATE: 02/03/2025
DESIGNED: KMM
DRAWN: KMM
CHECKED: KYH
DATE: 02/03/2025



LEGEND

- WORK AREA
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TEMPORARY PAVEMENT
- DRUM
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TUBULAR MARKER
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

NOTE:
ALL DEVICES SPACED AT 50' CENTERS
UNLESS OTHERWISE SPECIFIED. (TYP.)



Hurst-Rosche, Inc.
5 BANK SQUARE
EAST ST. LOUIS, IL
PH: 618.398.0890

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CHECKED - KYH
DATE - 02/03/2025

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DRAWN - KMM
CHECKED - KYH
DATE - 02/03/2025

DESIGNED - KMM
DRAWN - KMM
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DATE - 02/03/2025

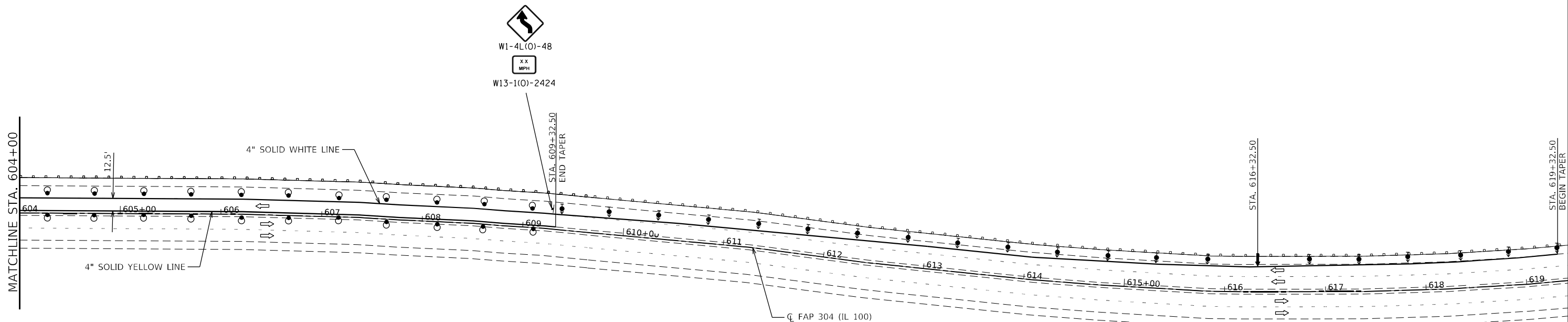
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC STAGING PLAN - STAGE II

SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. 574+00.00 TO STA. 604+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76U16				
ILLINOIS FED. AID PROJECT				

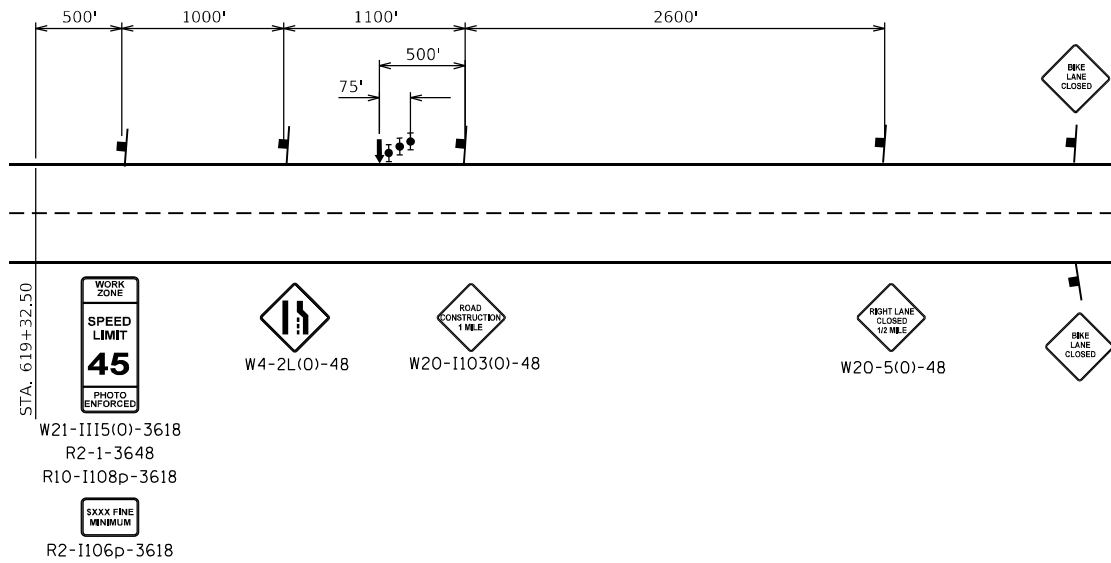
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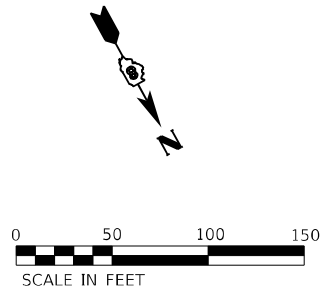
NOTE:
ALL DEVICES SPACED AT 50' CENTERS
UNLESS OTHERWISE SPECIFIED. (TYP.)

LEGEND

- | | | | |
|--|---|--|--|
| | WORK AREA | | TEMPORARY PAVEMENT |
| | IMPACT ATTENUATOR | | DRUM |
| | TEMPORARY CONCRETE BARRIER | | DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT |
| | SIGN | | TUBULAR MARKER |
| | TYPE III BARRICADE WITH FLASHING LIGHTS | | ARROW BOARD |
| | TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT | | DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT |

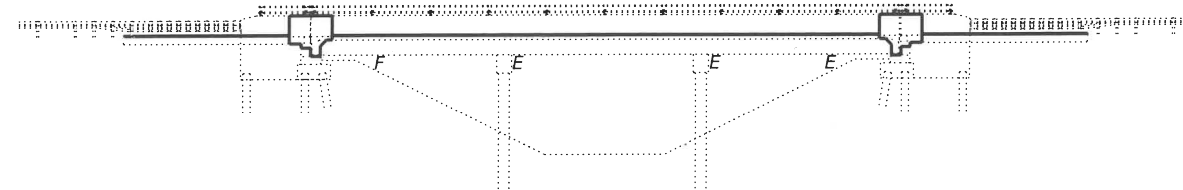


ADVANCE SIGNING

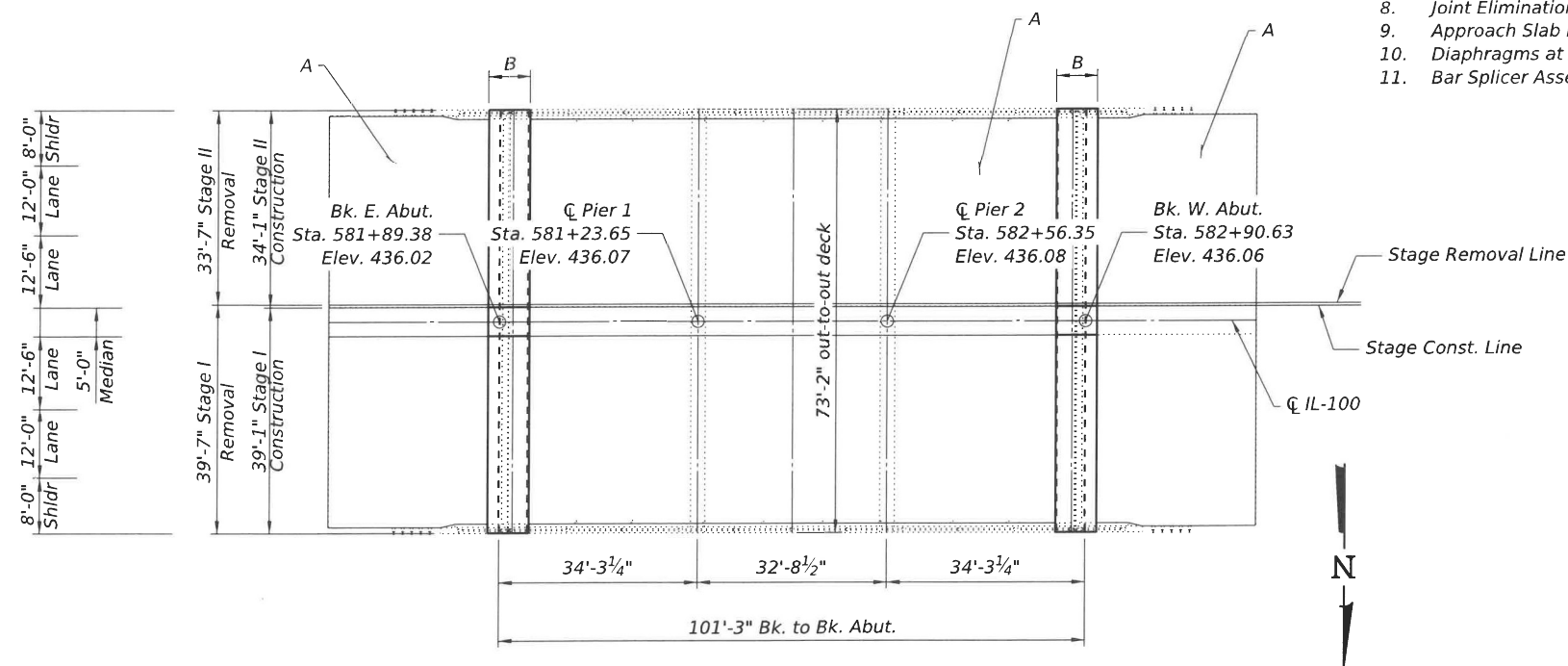


	Hurst-Rosche, Inc. PROFESSIONAL ENGINEER 5 BANK SQUARE EAST ST. LOUIS, IL PH: 618.398.0890	USER NAME = HURST-ROSCHE		DESIGNED - KMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC STAGING PLAN – STAGE II				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		PLOT DATE = 2/7/2025		CHECKED - KYH	REVISED -		SCALE: 1" = 50'				CONTRACT NO. 76U16				
		DATE - 02/03/2025		REVISD -			SHEET 3 OF 3 SHEETS				ILLINOIS FED. AID PROJECT				

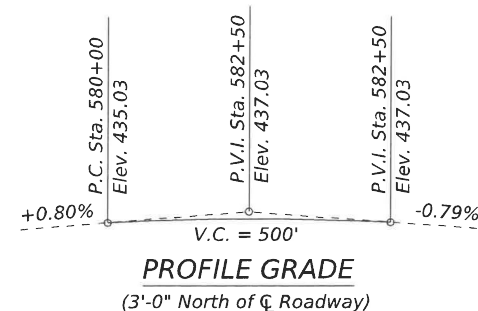
The deck ends, wing walls and approach ends shall be removed and replaced solid. Before replacing solid, the beam ends shall be cleaned to SSPC-SP3. The deck shall be patched, and overlayed with waterproofing membrane system and hot mix asphalt.



ELEVATION



PLAN



KEYED LEGEND

A - HMA Overlay with Waterproof Membrane

B - Expansion Joint Elimination

SCOPE OF WORK

1. *Implement traffic control and shift EB and WB traffic to the South side of the structure.*
2. *Perform expansion joint elimination work.*
3. *Perform deck slab and approach pavement repairs as indicated on the plans.*
4. *Place full lane waterproofing sealant.*
5. *Place HMA asphalt binder course.*
6. *Place HMA surface course.*
7. *Shift EB and WB traffic to the North side of the structure and repeat items 2 through 6 above.*

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

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 Concrete Removal.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetration testing (PT) by qualified personnel approved by the Engineer.

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.

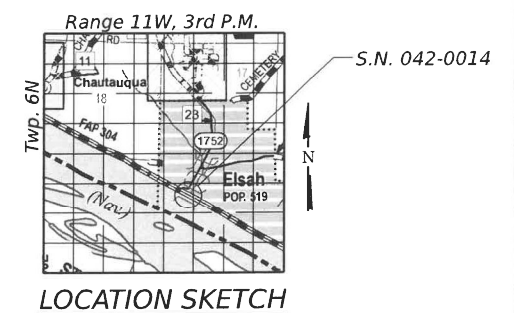
Existing reinforcement extending into removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with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

The bridge HMA is calculated based on 1½" surface course and ¾" binder course.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	TOTAL
	Polymerized HMA Binder Course, IL-4.75, N50	Ton	49
	Polymerized HMA Surface Course, SMA, 9.5, Mix "C" N50	Ton	98
	Concrete Removal	Cu. Yd.	48.9
	Concrete Superstructure	Cu. Yd.	72.2
	Reinforcement Bars, Epoxy Coated	Pound	8,620
	Bar Splicers	Each	52
	Full Lane Sealant Waterproofing System	Sq. Yd.	1,163
*	Approach Slab Repair (Partial Depth)	Sq. Yd.	0.9
*	Deck Slab Repair (Full-Depth Type I)	Sq. Yd.	1.5
*	Deck Slab Repair (Partial)	Sq. Yd.	1.2

* Denotes special provisions



GENERAL PLAN & ELEVATION
IL-100 OVER ELSAH CREEK
JERSEY COUNTY
STATION 582+40
STRUCTURE NO. 042-0014

CHASE CONNOR, P.E., S.E.
ILLINOIS STRUCTURAL NO. 7200
EXPIRES: NOVEMBER 30, 2026

DESIGN STRESSES
FIELD UNITS

New Construction
 $f'_c = 4,000 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinforcement)}$

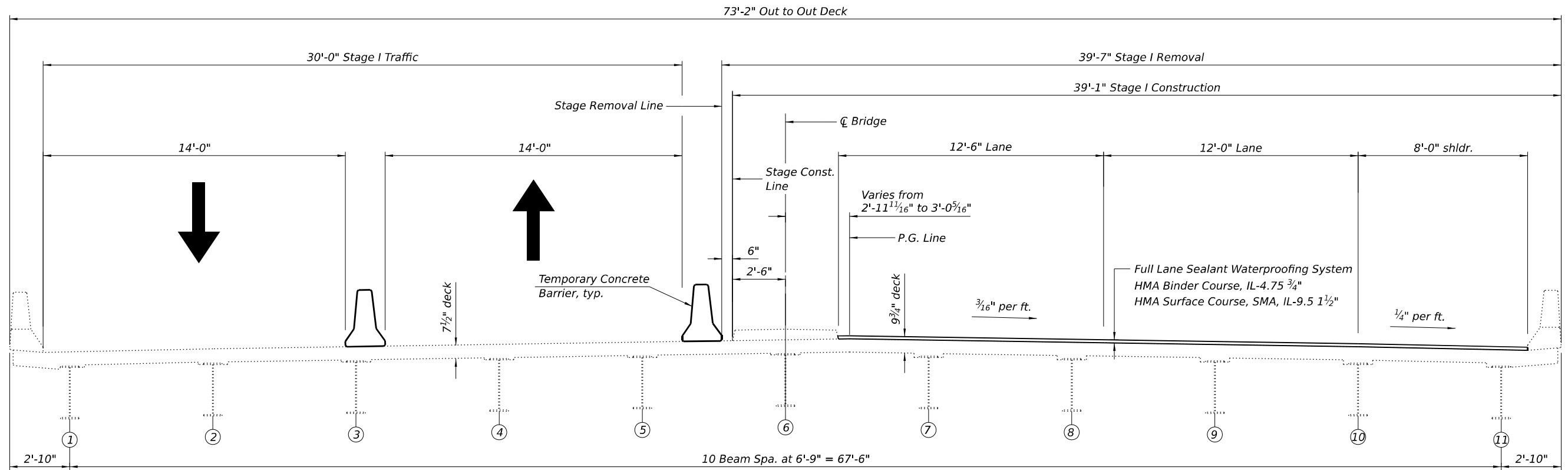
Existing Structure
 $f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinforcement)}$
 $f_y = 36,000 \text{ psi (str. st. M270 Grade 36)}$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

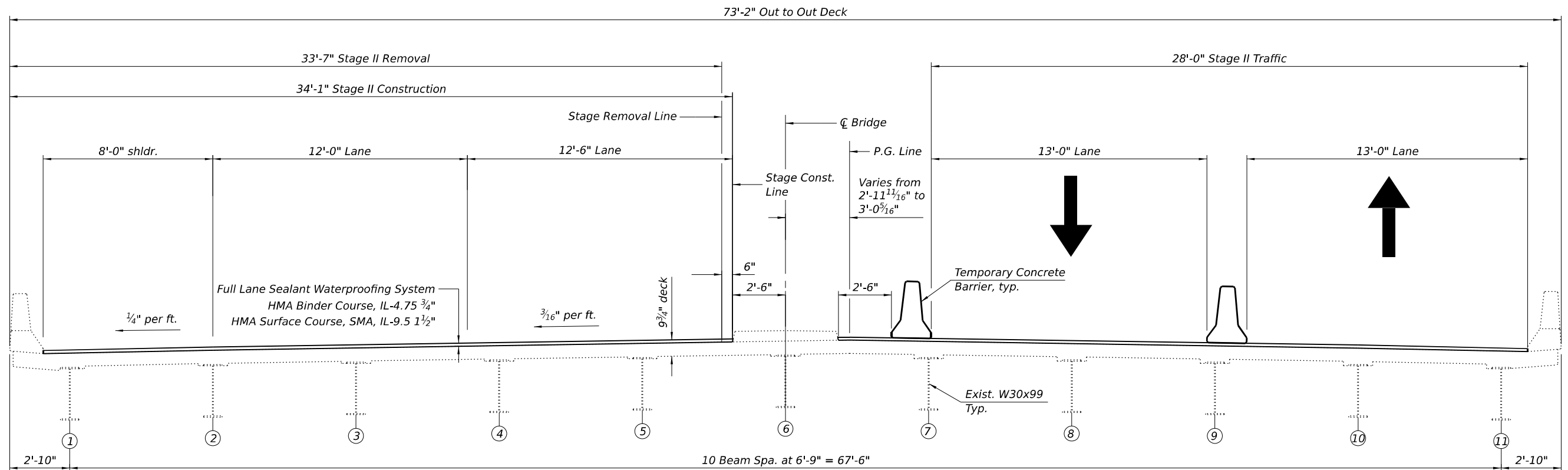
**GENERAL PLAN & ELEVATION
STRUCTURE NO. 042-0014**

SHEET 1 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	401-2(B)(BJR,BDS,BDR)-1	JERSEY	29	19
		CONTRACT NO. 76U16		
		ILLINOIS FED. AID PROJECT		



STAGE I
(Looking West)

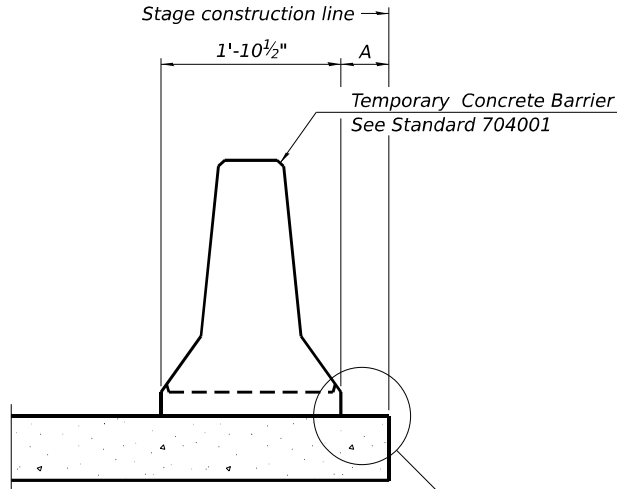


STAGE II
(Looking West)

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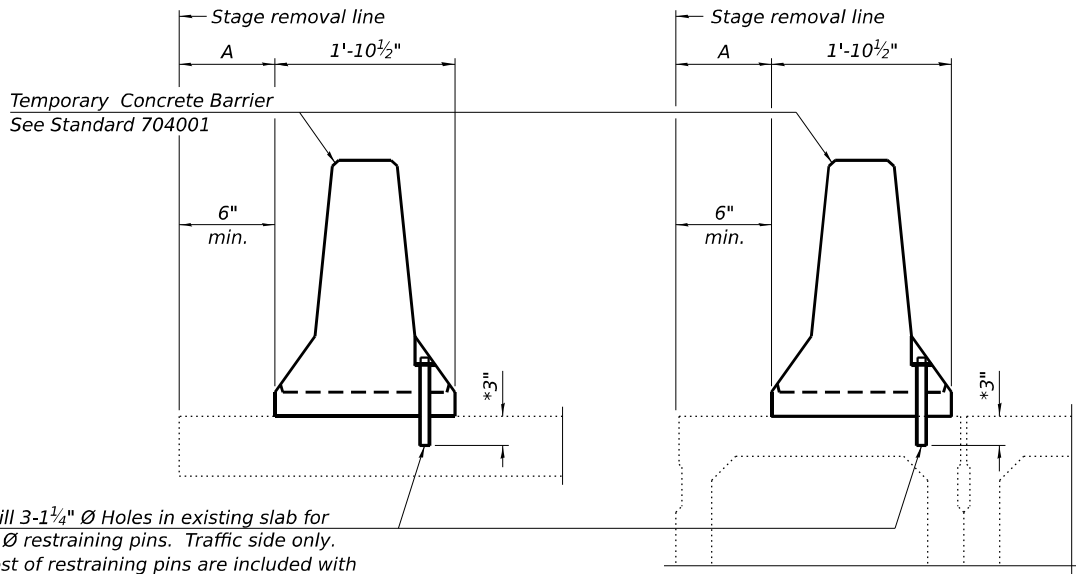
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				CHECKED CJC	REVISED -	REVISED -				304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	20
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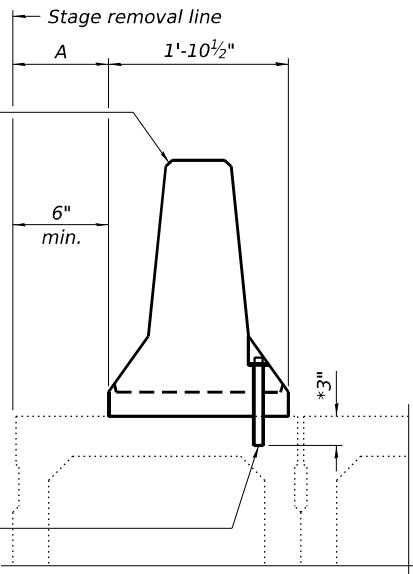
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



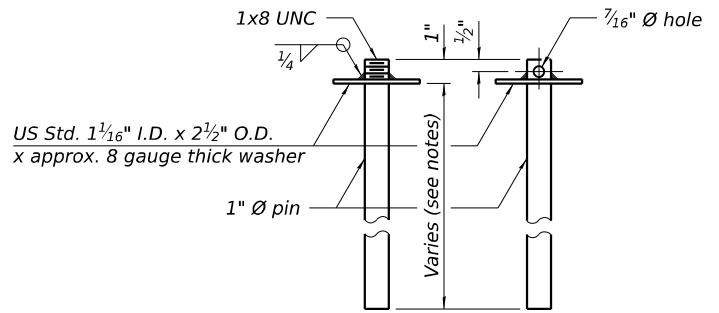
Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



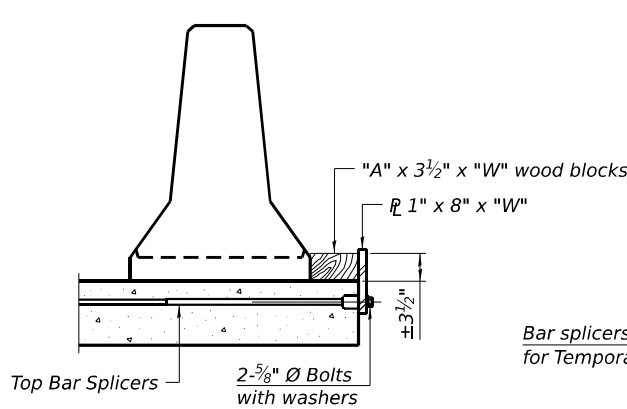
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

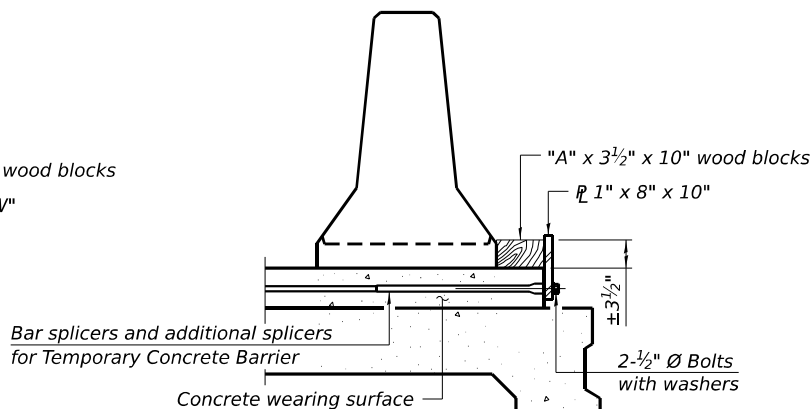


RESTRAINING PIN

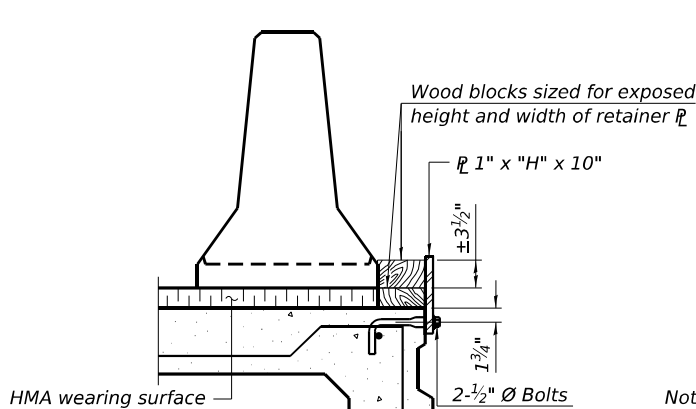
SECTIONS THRU SLAB OR DECK BEAM



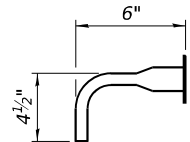
DETAIL I



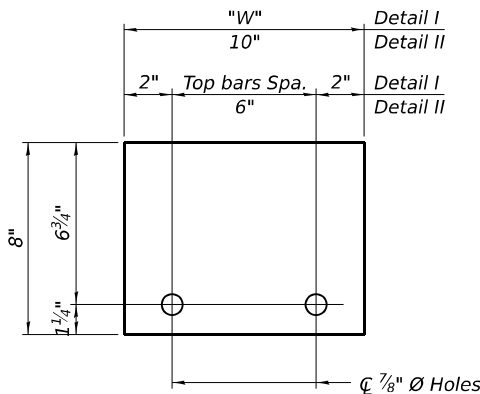
DETAIL II



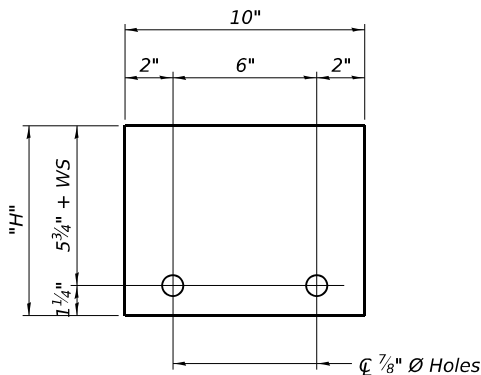
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.
Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023



Hurst-Rosche, Inc.
5 BANK SQUARE
EAST ST. LOUIS, IL
PH: 618.398.0890

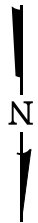
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	CHECKED CJC	REVISED -
PLOT SCALE =	DRAWN AE	REVISED -
PLOT DATE =	CHECKED CJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

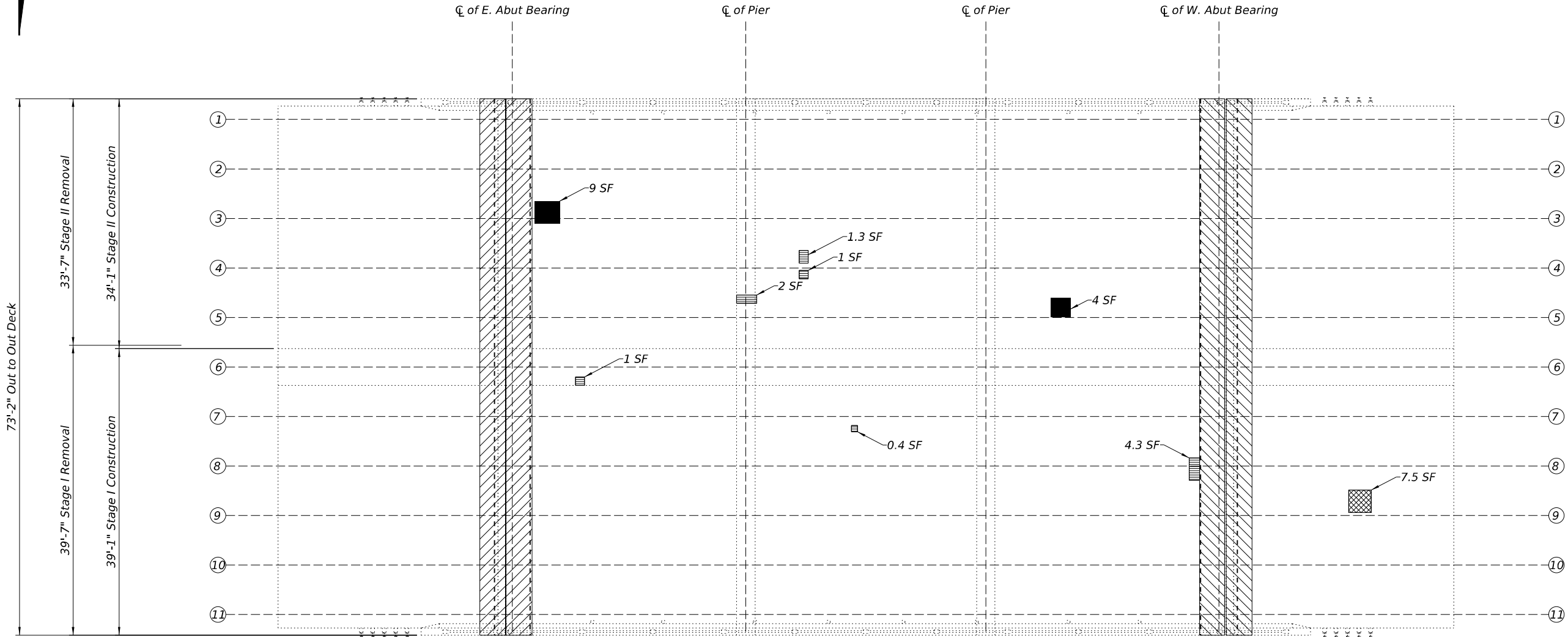
TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 042-0014

SHEET 3 OF 11 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	21
CONTRACT NO. 76U16				
ILLINOIS FED. AID PROJECT				



- Notes:
- 1. Locations and dimensions shown are approximate. the engineer will determine final path locations and quantitie in the field before bridge deck and approach slab patching operations begin.
 - 2. Engineer in field shall record any additional deck repairs performed prior to deck scarification in order to document as-built conditions for future reference.
 - 3. SF = Square Feet



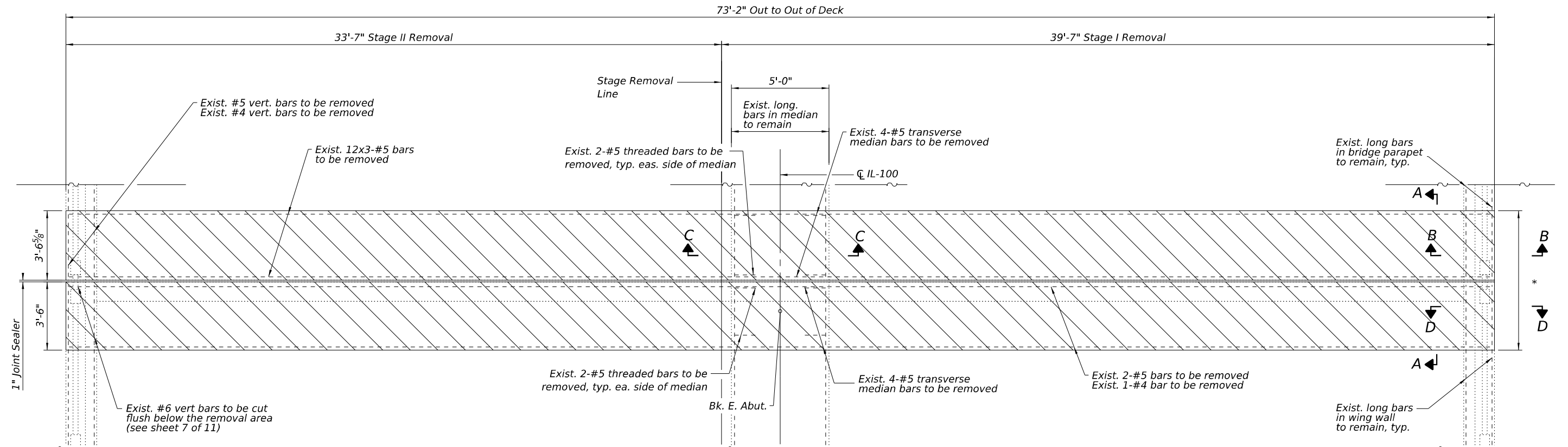
LEGEND

- Deck Slab Repair (Partial)
- Approach Slab Repair (Partial Depth)
- Deck Slab Repair (Full Depth, Type I)
- Concrete Removal

BILL OF MATERIALS

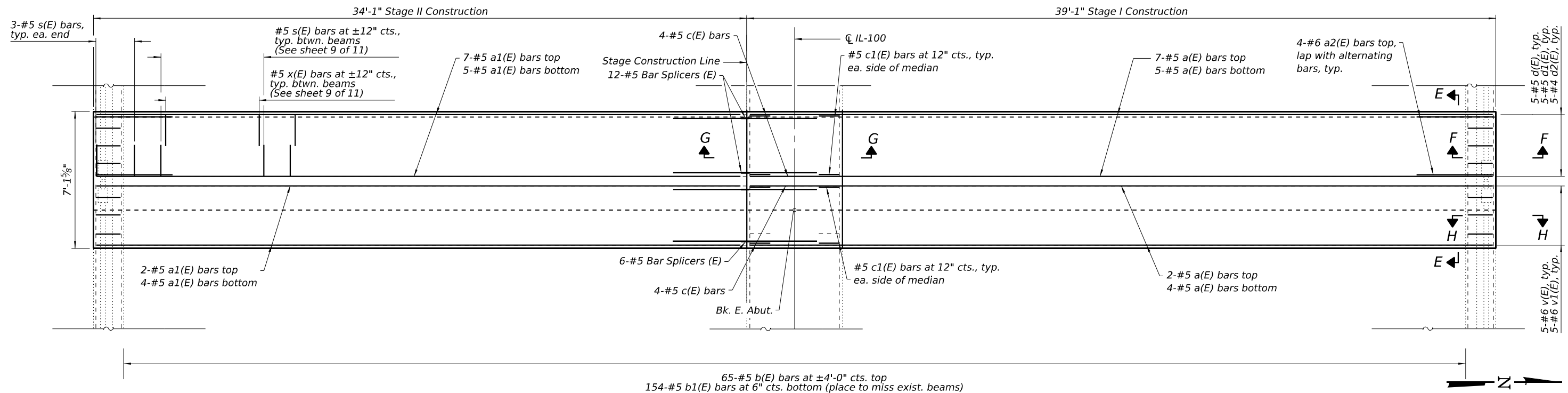
ITEM	UNIT	QUANTITY
Polymerized HMA Binder Course, IL-4.75	Ton	49
Polymerized HMA Surface Course, SMA, 9.5, Mix "C" N50	Ton	98
Full Lane Sealant Waterproofing System	Sq. Yd.	1,163
Approach Slab Repair (Partial Depth)	Sq. Yd.	0.9
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.5
Deck Slab Repair (Partial)	Sq. Yd.	1.2

MODEL: Default
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3/20/2025 1:27:41 PM



CONCRETE REMOVAL AT E. ABUT

* Guardrail in concrete removal area shall be removed, stored, and reinstalled. Reuse anchorage if in good condition. Otherwise use new anchorages. Cost is included with Concrete Superstructure. (Typ.)



65-#5 b(E) bars at ±4'-0" cts. top
154-#5 b1(E) bars at 6" cts. bottom (place to miss exist. beams)

CONCRETE REPLACEMENT AT E. ABUT

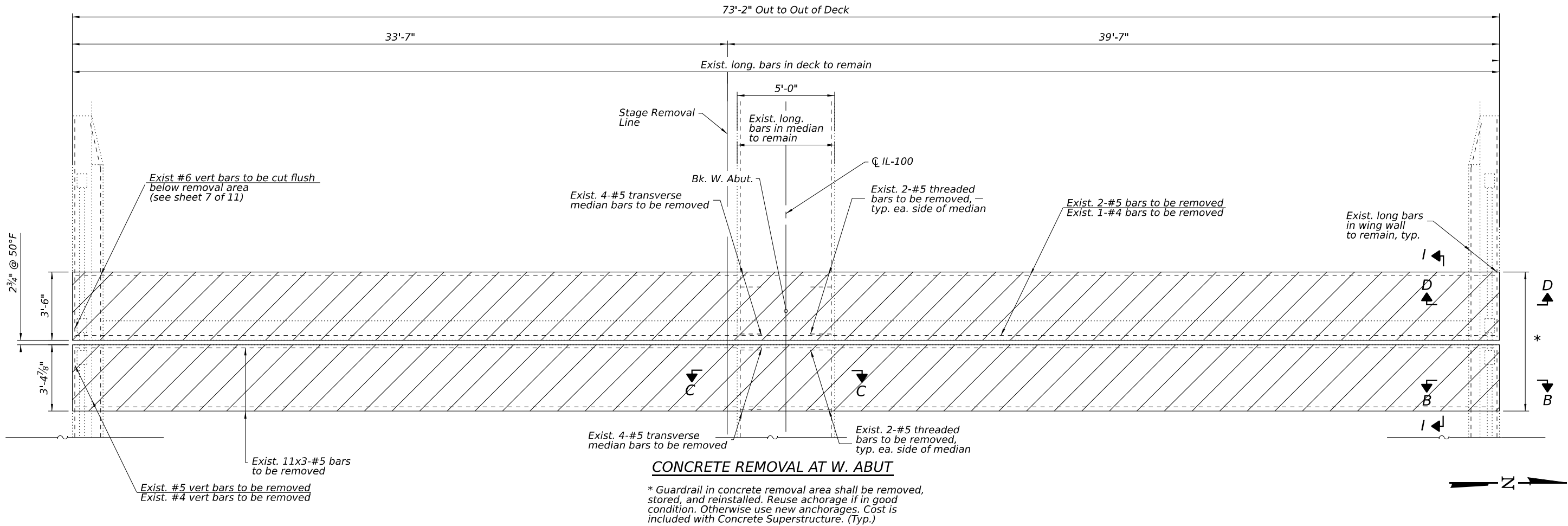
Notes:
1. See Sheet 7 of 11 for Sections A-A through D-D.
2. See Sheet 8 of 11 for Sections E-E through H-H and Bill of Materials

LEGEND

Concrete Removal

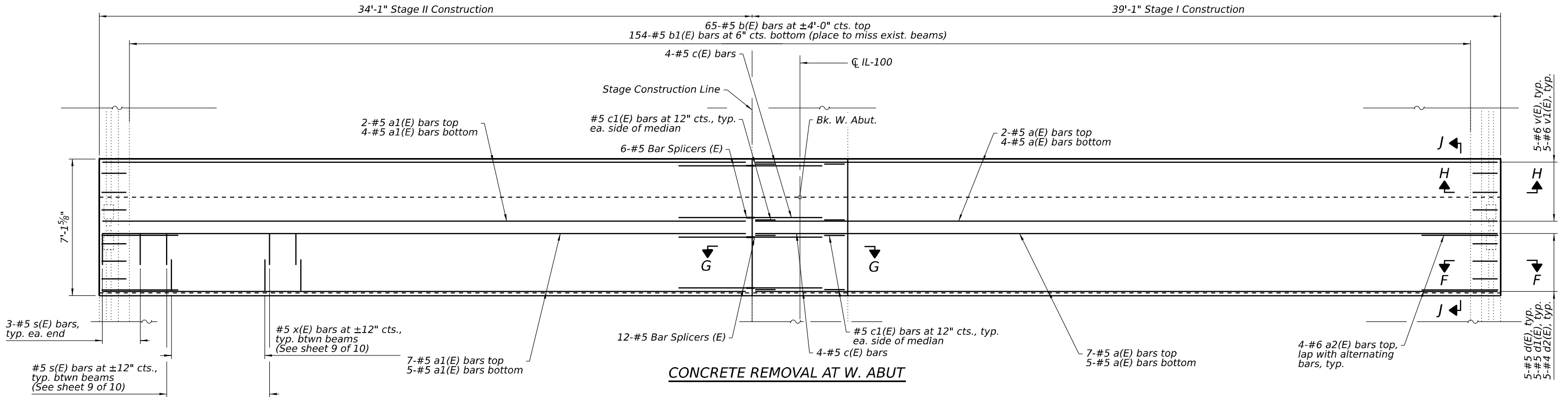
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	Hurst-Rosche, Inc. 5 BANK SQUARE EAST ST. LOUIS, IL PH: 618 398 0890	USER NAME =	DESIGNED JJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST JOINT ELIMINATION PLAN STRUCTURE NO. 042-0014	SHEET 5 OF 11 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PLOT SCALE =	CHECKED CJC	REVISED -				304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	23
		PLOT DATE =	DRAWN AE	REVISED -				CONTRACT NO. 76U16				
			CHECKED CJC	REVISED -				ILLINOIS FED. AID PROJECT				



CONCRETE REMOVAL AT W. ABUT

* Guardrail in concrete removal area shall be removed, stored, and reinstalled. Reuse anchorage if in good condition. Otherwise use new anchorages. Cost is included with Concrete Superstructure. (Typ.)



CONCRETE REMOVAL AT W. ABUT

LEGEND

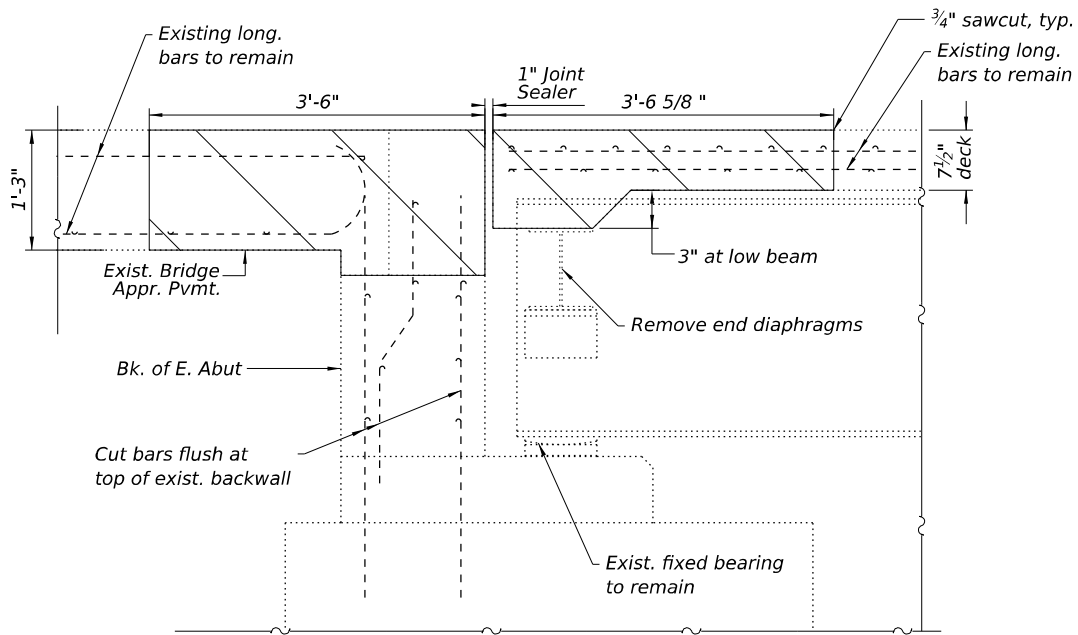
 Concrete Removal

Notes:
1. See Sheet 7 of 11 for Sections B-B through D-D and I-I.
2. See Sheet 8 of 11 for Sections F-F through H-H and J-J, and Bill of Materials.

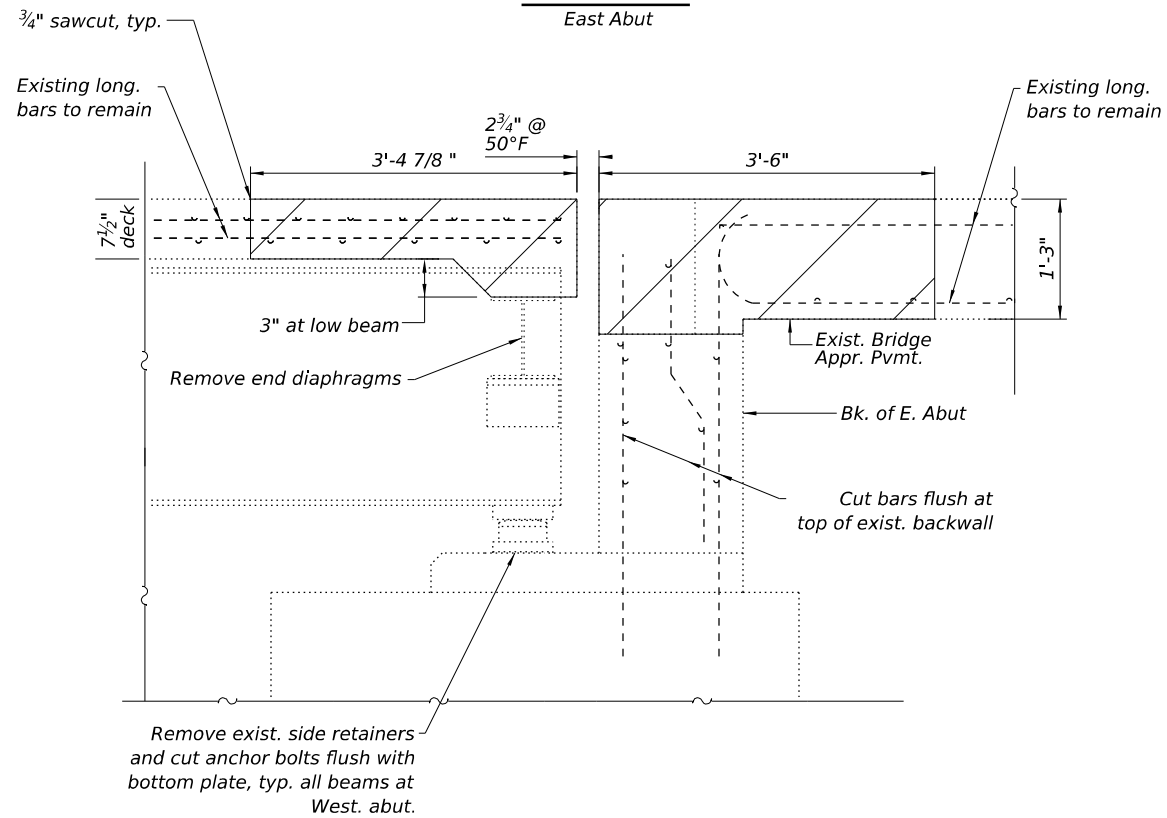
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	Hurst-Rosche, Inc. 5 BANK SQUARE EAST ST. LOUIS, IL PH: 618 398 0890	USER NAME =	DESIGNED JJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST JOINT ELIMINATION PLAN STRUCTURE NO. 042-0014	SHEET 6 OF 11 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED CJC	REVIS	REVISED -				304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	24
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		PLOT DATE =	CHECKED JJC	REVISED -				ILLINOIS FED. AID PROJECT				

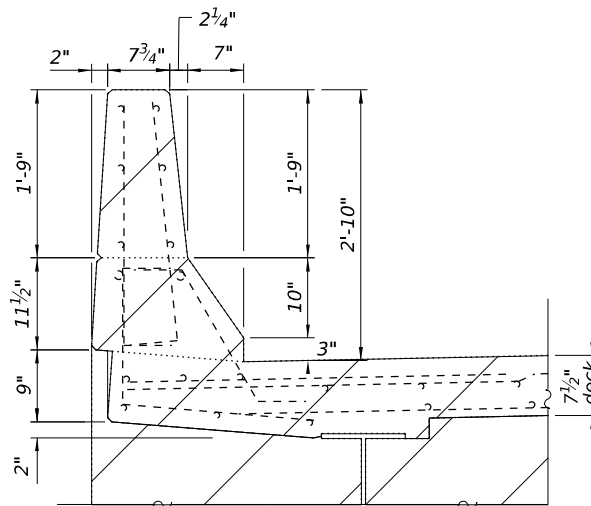
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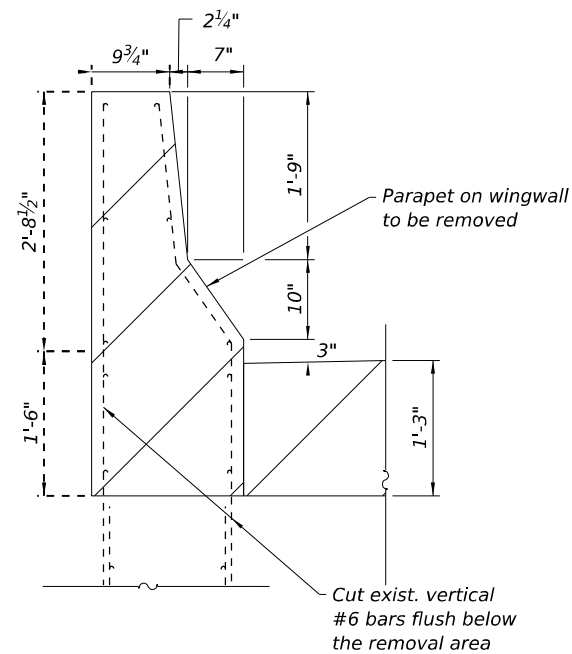
SECTION A-A
East Abut



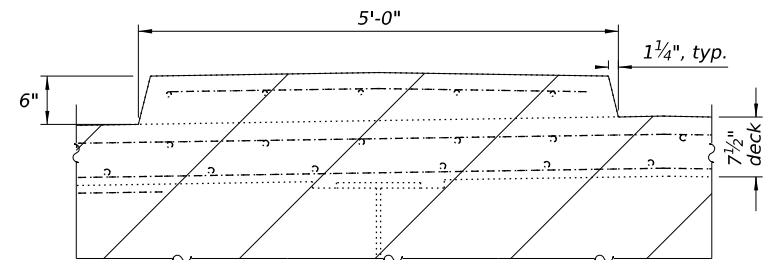
SECTION I-I
West Abut



SECTION B-B



SECTION D-D



SECTION C-C

LEGEND



Notes:
Existing end diaphragms or cross frames to be removed to facilitate placement of new reinforcement and concrete.
Holes drilled in existing steel beams shall be drilled a minimum of 1" from the beam end.
PJF or foam shall be placed around the elastomeric bearings.



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PLOT SCALE =	DRAWN AE	REVISED -
PLOT DATE =	CHECKED JJC	REVISED -

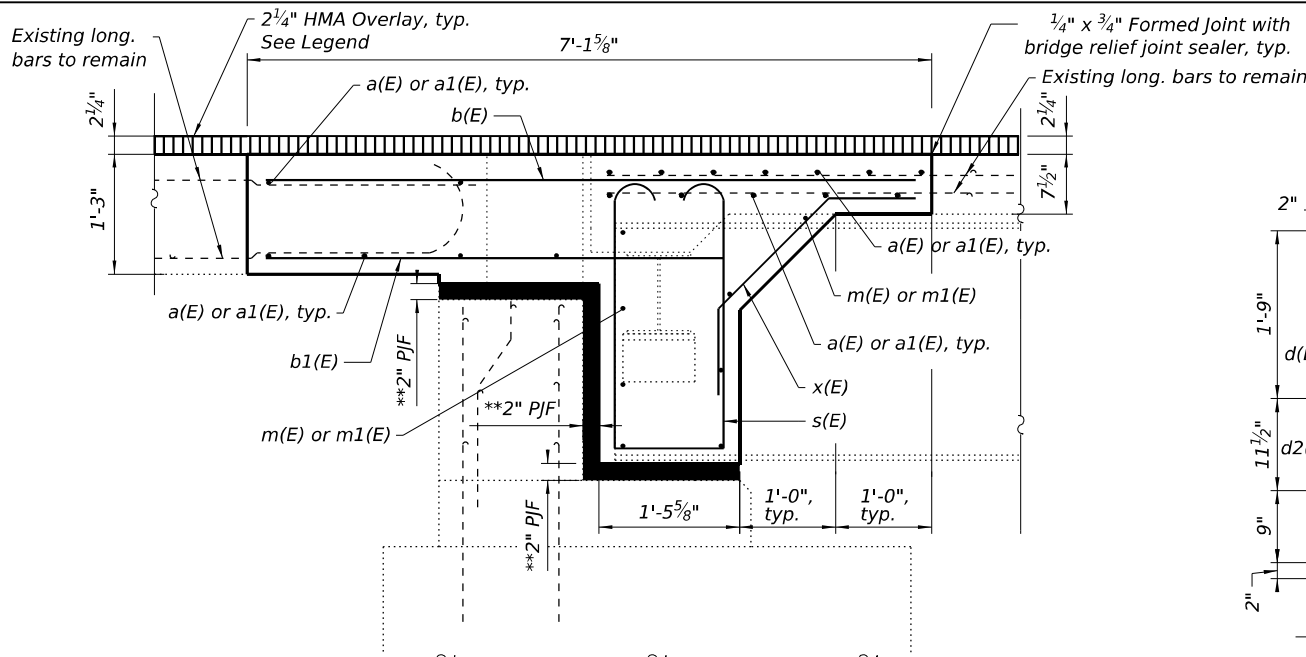
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT ELIMINATION DETAILS (SHEET 1 OF 2)
STRUCTURE NO. 042-0014

SHEET 7 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	25
CONTRACT NO. 76U16				
		ILLINOIS	FED. AID PROJECT	

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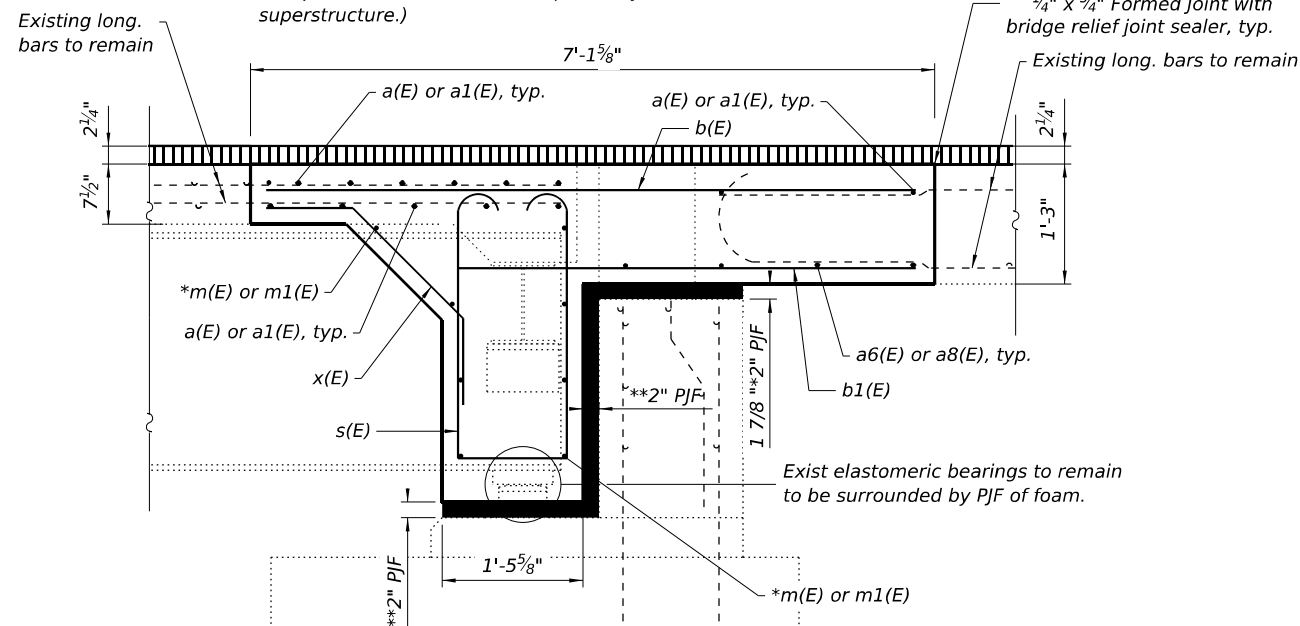


SECTION E-E

(East Abut.)

*Bars to be placed through holes drilled in the beam web where appropriate.

**2" preformed flexible foam expansion joint filler. (Cost incl. with concrete superstructure.)



SECTION J-J

(West Abut.)

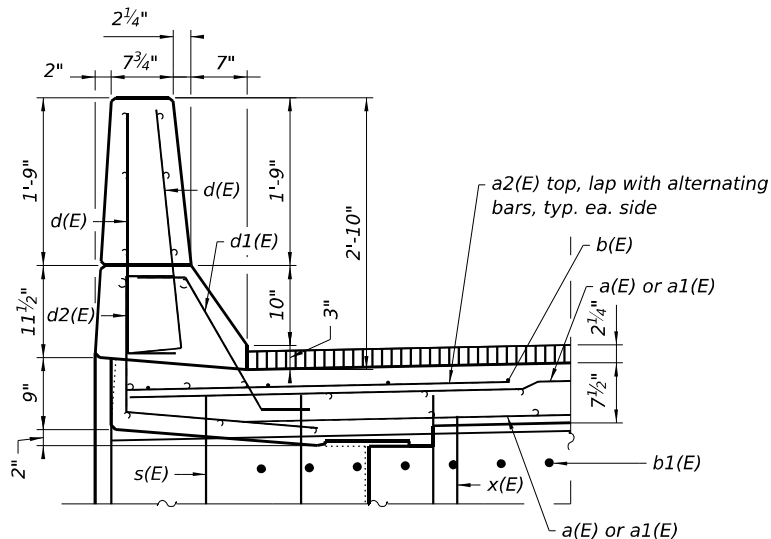
LEGEND



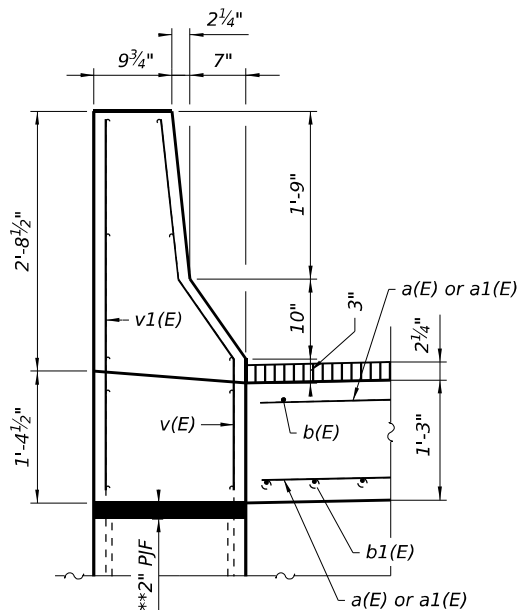
Full Lane Sealant Waterproofing System
HMA Binder Course, IL-4.75 3/4"
HMA Surface Course, SMA, IL-9.5 1 1/2"

Notes:

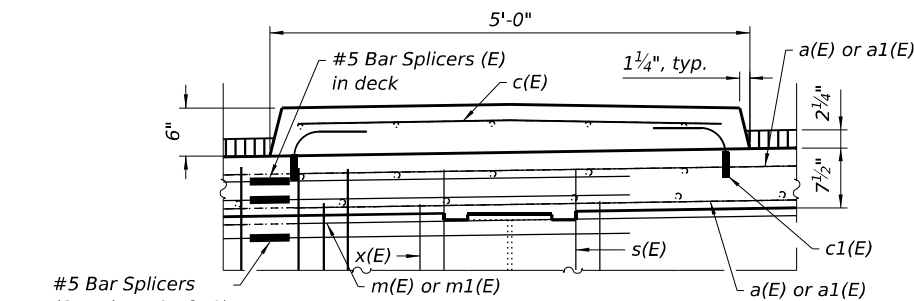
Existing end diaphragms or cross frames to be removed to facilitate placement of new reinforcement and concrete.
Holes drilled in existing steel beams shall be drilled a minimum of 1" from the beam end.
The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.



SECTION F-F



SECTION H-H



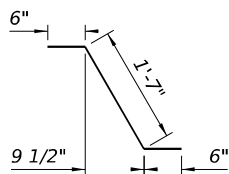
SECTION G-G

#5 Bar Splicers
(See sheet 9 of 10)

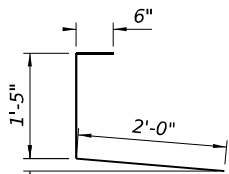
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	36	5	38'-9"	
a1(E)	36	5	33'-7"	
a2(E)	16	6	4'-0"	
b(E)	130	5	6'-9"	
b1(E)	308	5	4'-9"	
c(E)	16	5	4'-5"	
c1(E)	32	5	1'-3"	
d(E)	20	5	3'-0"	
d1(E)	20	5	2'-7"	
d2(E)	20	4	3'-11"	
m(E)	16	5	39'-0"	
m1(E)	16	5	33'-10"	
s(E)	142	5	7'-5"	
x(E)	120	5	3'-6"	
v(E)	20	6	6'-6"	
v1(E)	20	6	3'-10"	
Concrete Removal			Cu. Yd.	48.9
Concrete Superstructure			Cu. Yd.	72.2
Reinforcement Bars, Epoxy Coated			Pound	8,620

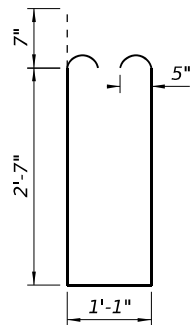
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



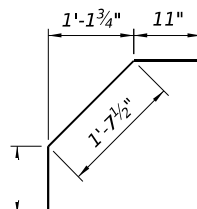
d1(E)



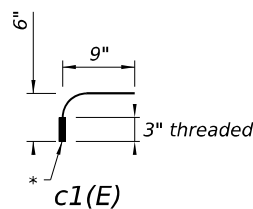
d2(E)



s(E)



x(E)



c1(E)

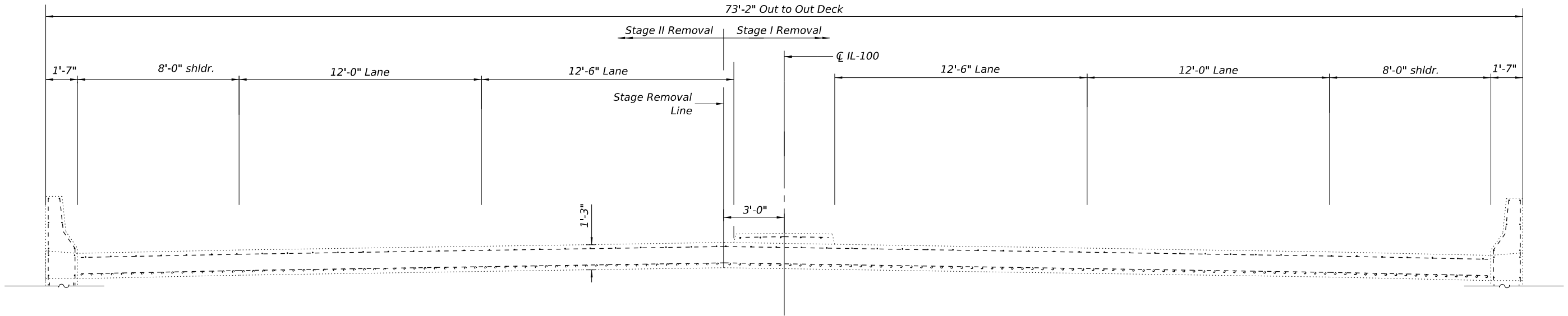
*3/4" Ø Galvanized expansion anchor or Ferrule Loop Slab Insert (Proof Load 6600 lbs).

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

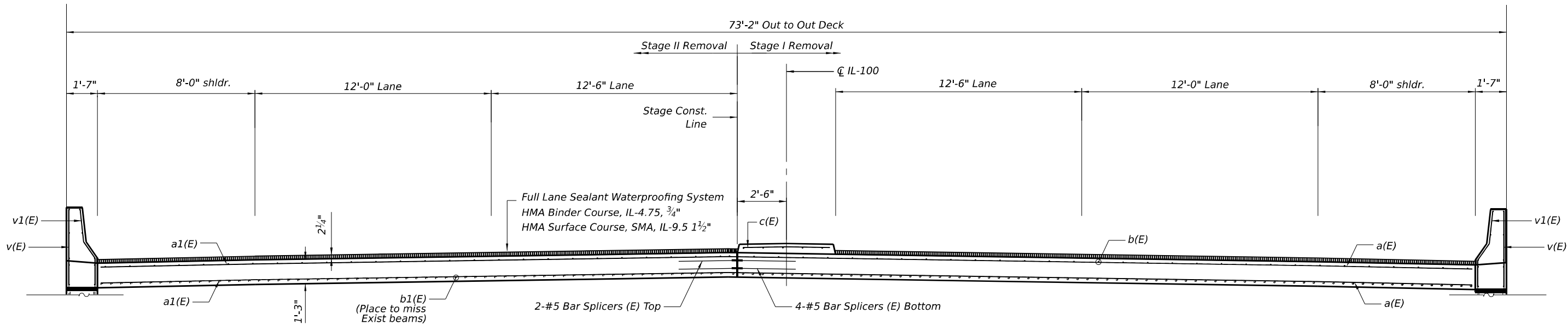
JOINT ELIMINATION DETAILS (SHEET 2 OF 2)
STRUCTURE NO. 042-0014

SHEET 8 OF 11 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	26
CONTRACT NO. 76U16				
ILLINOIS FED. AID PROJECT				



APPROACH PAVEMENT REMOVAL
(Facing East)



APPROACH PAVEMENT REPLACEMENT
(Facing East)

LEGEND



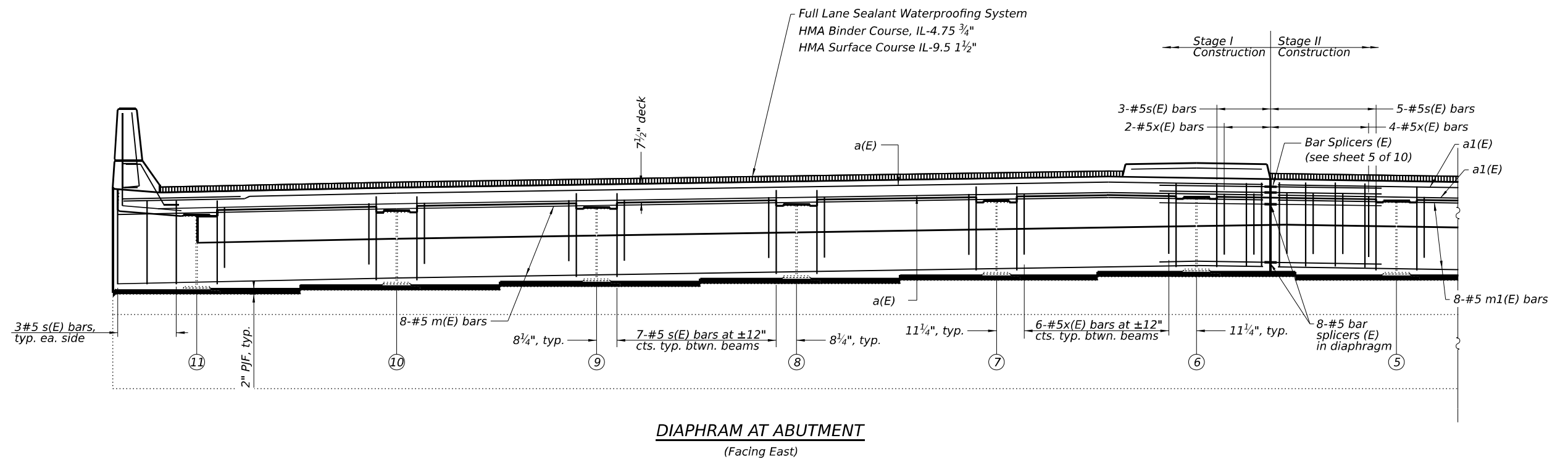
Full Lane Sealant Waterproofing System
HMA Binder Course, IL-4.75 $\frac{3}{4}$ "
HMA Surface Course, SMA, IL-9.5 $1\frac{1}{2}$ "

See Sheet 8 of 11 for Bill of Materials

MODEL: Default
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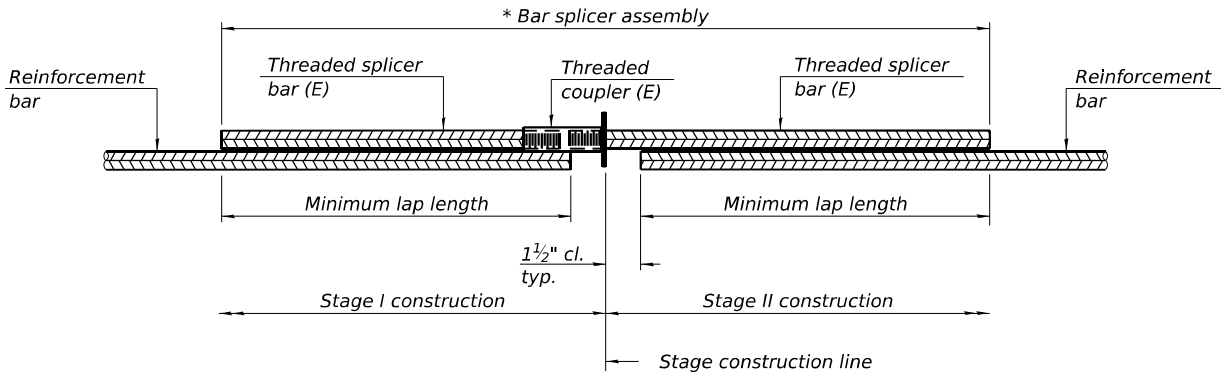
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			CHECKED CJC	REVISED -							
		PLOT SCALE =	DRAWN AE	REVISED -							
		PLOT DATE =	CHECKED CJC	REVISED -							
		SHEET 9 OF 11 SHEETS									
							ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: X:\F



HR Hurst-Rosche, Inc PROFESSIONAL ENGINEERS, SURVEYORS & ARCHITECTS 5 BANK SQUARE EAST ST. LOUIS, IL PH: 618 398 0890	USER NAME =	DESIGNED JJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGMS AT ABUTMENTS STRUCTURE NO. 042-0014	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED CJC	REVISED -			304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	28	
	PLOT SCALE =	DRAWN AE	REVISED -			CONTRACT NO. 76U16					
	PLOT DATE =	CHECKED JJC	REVISED -								
	SHEET 10 OF 11 SHEETS										

MODEL: Default
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3/17/2025 11:15:15 AM



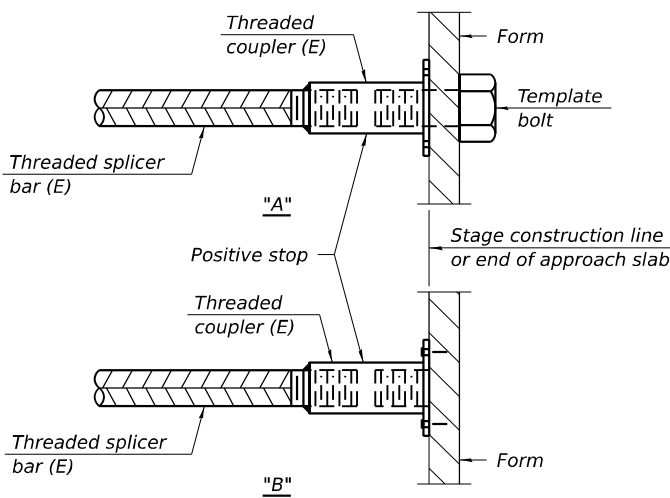
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + 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
Bridge Deck	5	24	3'-6"
Integral Approach	4	4	3'-0"
Integral Approach	5	8	3'-6"
Diaphragm	5	16	3'-6"

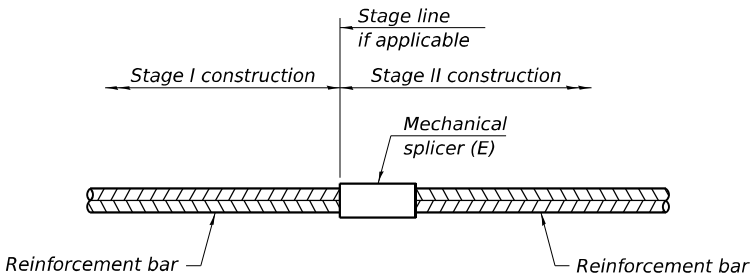


INSTALLATION AND SETTING METHODS

"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

5-15-2023



Hurst-Rosche, Inc
5 BANK SQUARE
EAST ST. LOUIS, IL
PH: 618 398 0890

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	CHECKED CJC	REVISED -
PLOT SCALE =	DRAWN AE	REVISED -
PLOT DATE =	CHECKED CJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 042-0014

SHEET 11 OF 11 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	401-2B(BJR,BDS,BDR)-1	JERSEY	29	29
CONTRACT NO. 76U16				
		ILLINOIS	FED. AID PROJECT	