

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	1
ILLINOIS CONTRACT NO. 68H71				

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, HIGHWAY STANDARDS & COMMITMENTS
- 3-8 SUMMARY OF QUANTITIES
- 9-14 TYPICAL SECTIONS
- 15-18 SCHEDULE OF QUANTITIES
- 19-26 REMOVAL PLAN
- 27-35 PLAN
- 36-43 PAVEMENT MARKING PLAN
- 44-47 STAGING TYPICAL SECTIONS
- 48-59 TRAFFIC STAGING PLAN
- 60 ITS PLAN
- 61-64 DETOUR PLANS
- 65 BUTT JOINT DETAIL
- 66 PROPOSED RIPRAP DETAIL
- 67-77 S.N. 090-0130
- 78-89 S.N. 090-0132
- 90-96 S.N. 090-0133
- 97-102 S.N. 090-0137
- 103-114 S.N. 090-0138
- 115-123 S.N. 090-0139

FOR HIGHWAY STANDARDS, SEE SHEET 2

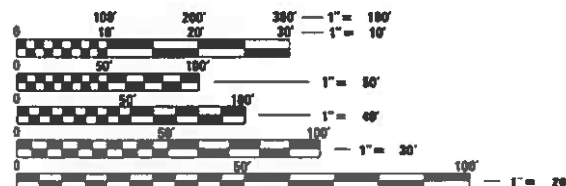
**PROPOSED
HIGHWAY PLANS**

FAI 155 (I-155)
SECTION D4 BRIDGE JOINT REPAIR 2024
PROJECT NHPP-B33G(445)
BRIDGE PRESERVATION
TAZEWELL COUNTY



DESIGN DESIGNATION

- QUEENWOOD ROAD: AADT 2550(2018)-MAJOR COLLECTOR
- BROADWAY ROAD: AADT 3850(2018)-MINOR ARTERIAL
- ALLENTOWN ROAD: AADT 550(2018)-MINOR COLLECTOR
- OLD RTE IL 121: AADT 100(2018)-LOCAL ROAD OR STREET
- IL 122: AADT 1450(2018)-MINOR ARTERIAL
- ARMINGTON ROAD: AADT 125(2018)-MAJOR COLLECTOR



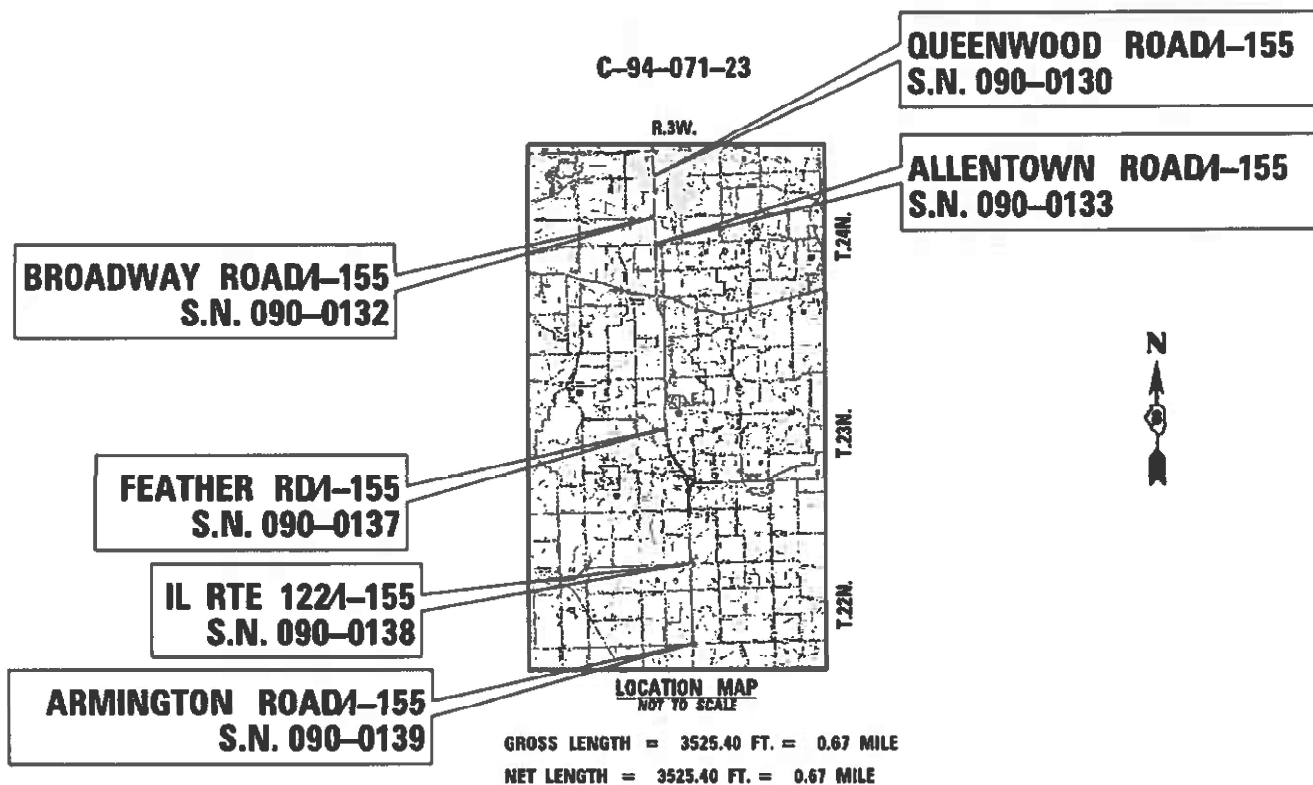
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: KAREN DVORSKY (309) 671-3490
PROJECT MANAGER: ELIAS ELDERZI (309) 671-3482

CATALOG NO. 036428-000

CONTRACT NO. 68H71



Samantha Soto 2/9/24
SAMANTHA M. SOTO P.E. # 062-066034 DATE
LICENSE EXPIRES: NOVEMBER 30, 2025
HURST-BOSCHE, INC.
SHEET RANGE: 1-50, 61-68

PROJECT DESCRIPTION:
WORK INCLUDES BRIDGE DECK AND APPROACH SCARIFICATION, MICROSILICA OVERLAY, JOINT REPLACEMENT, STRUCTURAL REPAIR OF CONCRETE, REPLACING APPROACH INLETS WITH AGG SWALES, AND PERMANENT PROTECTIVE SHIELDING.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *February 15, 2024*

Kenneth J. Barnhart
REGIONAL ENGINEER

March 22, 2024 *San E.A. Etk*
ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024 *Steph M. Sandoz*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

HIGHWAY STANDARDS

000001-08	AREAS OF REINFORCEMENT BARS
420001-10	PAVEMENT JOINTS
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS \geq 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS \geq 45 MPH
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY WITH BARRIER
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKINGS
782001-01	CURB REFLECTORS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

BRIDGE OVERLAY NOTIFICATION

AFTER PLACEMENT OF THE BRIDGE DECK OVERLAY, THE RESIDENT ENGINEER SHALL NOTIFY THE DISTRICT BRIDGE MAINTENANCE ENGINEER OF THE "AS CONSTRUCTED" MILLING DEPTH AND OVERLAY THICKNESS FOR UPDATING THE ILLINOIS HIGHWAY INFORMATION SYSTEM.

BUTT JOINT CUTTING TIME RESTRICTION

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

1. BDE FORM 2289 (BORROW SITE REVIEW)
2. BDE FORM 2290 (WASTE/USE AREA REVIEW)
3. A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
4. COLOR PHOTOGRAPHS DEPICTING THE USE AREA
5. BORROW AREA ENTRY AGREEMENT FORM - D4 P10101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

NO PASSING ZONE VERIFICATION

THE RESIDENT SHALL CONTACT OPERATIONS TO VERIFY THE LOCATION OF NO PASSING ZONES PRIOR TO PLACEMENT OF CENTERLINE STRIPING.

PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

SURFACE TYPE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 LB/SF
EXISTING PAVEMENT	0.08 LB/SF
FOG COAT (BETWEEN LIFTS)	0.08 LB/SF

SECURING DRAINAGE STRUCTURE GRATES

PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS AS SHOWN IN THE STAGING PLANS, THE CONTRACTOR SHALL SECURE GRATINGS ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL PAY ITEM.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	MAINLINE	MAINLINE	SHOULDERS	SHOULDERS	TEMP PAVEMENT	TEMP PAVEMENT
MIXTURE USE(S):	POLYMER SURFACE 1.5"	POLYMER LEVEL BINDER 1"	POLYMER SHOULDER SURFACE LIFT 1.25"	POLYMER SHOULDER BINDER LIFT 1.25"	TEMP PAVEMENT TOP-BINDER 2"	TEMP PAVEMENT 2ND LIFT 2.5" 1ST LIFT 3.5"
AC/PG:	SBS or SBR 76-28	SBS or SBR 76-28	SBS or SBR 70-28	SBS or SBR 70-28	PG 58-28	PG 58-28
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 4.75	IL 9.5	IL 9.5	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIX D	MIX D	MIX D	N/A	N/A	N/A
QUALITY MANAGMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA	QCQA	QCQA
MTD:	NO	NO	NO	NO	NO	NO

NOTES:

1. INDIVIDUAL LIFT THICKNESSES OF EACH MIX WILL BE NO LESS THAN THREE (3) TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN FIVE (5) TIMES NOMINAL AGGREGATE MAXIMUM SIZE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. FOR DESIGN PURPOSES, MIXTURE WEIGHT FOR ALL MIXES IS DETERMINED TO BE 112.0 LB/SQ YD/IN, UNLESS OTHERWISE NOTED.
3. SUBLOT SIZES FOR PFP AND QCP WILL BE 1,000 TONS, UNLESS OTHERWISE AGREED TO BY THE ENGINEER AND THE PAVING CONTRACTOR.

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 HURST-ROSCHKE, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3959 HR # 192-2330 www.hurst-roschke.com	USER NAME = sso10 DESIGNED - KYH DRAWN - KYH CHECKED - JJC DATE - 02/09/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, HIGHWAY STANDARDS, AND COMMITMENTS	F.A.I. RTE.: 155 SECTION: 06 BRIDGE JOINT REPAIR 2024 COUNTY: TAZEWELL TOTAL SHEETS: 123 SHEET NO.: 2	CONTRACT NO. 68H71 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 100,0000' / in. PLOT DATE = 2/14/2024	SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.				

SUMMARY OF QUANTITIES

90% FED
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				BRIDGE 0047 S.N. 090-0130	BRIDGE 0047 S.N. 090-0132	BRIDGE 0047 S.N. 090-0133	BRIDGE 0047 S.N. 090-0137	BRIDGE 0047 S.N. 090-0138	BRIDGE 0047 S.N. 090-0139
50300260	BRIDGE DECK GROOVING	SQ YD	8462	2070	2203	1005		2075	1109
50300300	PROTECTIVE COAT	SQ YD	9298	2283	2375	1111	36	2277	1216
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9280	1830	2645	1040	1020	1700	1045
50800515	BAR SPLICERS	EACH	54	18	18			18	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	605	139	131	75	65	128	67
59000200	EPOXY CRACK INJECTION	FOOT	294	95	10	41	51	76	21
60600605	CONCRETE CURB, TYPE B	FOOT	320	64	64	64		64	64
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	23995	10038	6949			7008	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1137.5	212.5	262.5			662.5	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	20	4	4	4		4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6	2	2			2	
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	2	2				
63200310	GUARDRAIL REMOVAL	FOOT	2431	549	602	148		984	148
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7.00	1.17	1.17	1.16	1.16	1.17	1.17

*= SPECIALTY ITEM

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 HURST-ROSCHKE, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3959 HR # 192-2330 www.hurst-roschke.com	USER NAME = ssoto DESIGNED - KYH DRAWN - KYH CHECKED - JJC DATE - 02/09/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE.: SECTION: 155 D4 BRIDGE JOINT REPAIR 2024 COUNTY: TAZEWELL ILLINOIS FED. AID PROJECT	TOTAL SHEETS: 123 SHEET NO.: 4
	PLOT SCALE = 100.0000' / in. PLOT DATE = 2/15/2024	SCALE:			SHEET 2 OF 6 SHEETS STA. TO STA.	

SUMMARY OF QUANTITIES

90% FED
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047	0047	0047
				S.N. 090-0130	S.N. 090-0132	S.N. 090-0133	S.N. 090-0137	S.N. 090-0138	S.N. 090-0139
67100100	MOBILIZATION	L SUM	1.00	0.17	0.17	0.16	0.16	0.17	0.17
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	5	1	1	1		1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	5	1	1	1		1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.00	0.33	0.33			0.34	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.00	0.33	0.33			0.34	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.2	0.2	0.2		0.2	0.2
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	196.00	32.67	32.67	32.66	32.66	32.67	32.67
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	3	1	1			1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	18	6	6			6	
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	3707	589	1606			1512	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	84	14	14	14	14	14	14
70300100	SHORT TERM PAVEMENT MARKING	FOOT	149	16	31	38		21	43
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	9640	2142	3385	513		3032	568
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	186	46	70			70	

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 Hurst-Rosche, Inc.



HURST-ROSCHÉ, INC.
 HILLSBORO, ILLINOIS 62049
 PHONE (217)532-3959
 HR # 192-2330
 www.hurst-rosche.com

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PLOT SCALE = 100.0000' / in.	DRAWN - KYH	REVISED -
PLOT DATE = 2/15/2024	CHECKED - JJC	REVISED -
	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155 D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	5	
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	

SUMMARY OF QUANTITIES

90% FED
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				BRIDGE 0047	BRIDGE 0047	BRIDGE 0047	BRIDGE 0047	BRIDGE 0047	BRIDGE 0047
				S.N. 090-0130	S.N. 090-0132	S.N. 090-0133	S.N. 090-0137	S.N. 090-0138	S.N. 090-0139
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	12821	3248	3278	1499		3143	1653
70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	FOOT	1958	404	849			705	
70307160	TEMPORARY PAVEMENT MARKING - LINE 12"- TYPE IV TAPE	FOOT	1924	418	841			665	
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	170	36	65			69	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4912.5	1300	1275	550		1237.5	550
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4712.5	1150	1250	550		1212.5	550
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	16	4	4	2		4	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	16	4	4	2		4	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	12	4	4			4	
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	186	46	70			70	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	12821	3248	3278	1499		3143	1653
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	1958	404	849			705	
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	1924	418	841			665	
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	170	36	65			69	

*= SPECIALTY ITEM

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HURST-ROSCHKE, INC.
HILLSBORO, ILLINOIS 62049
PHONE (217)532-3959
HR # 192-2330
www.hurst-roschke.com

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PLOT SCALE = 100,0000' / in.	CHECKED - JJC	REVISED -
PLOT DATE = 2/15/2024	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	

SUMMARY OF QUANTITIES

90% FED
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047	0047	0047
				S.N. 090-0130	S.N. 090-0132	S.N. 090-0133	S.N. 090-0137	S.N. 090-0138	S.N. 090-0139
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12			2		8	2
* 78200020	CURB REFLECTORS	EACH	194	81	57			56	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12			2		8	2
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	3687	783	1584			1320	
X0326444	SURFACE FILLER (SPECIAL)	GALLON	58	9	9	9	9	9	13
X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	2675	1118	775			782	
X5017305	PROTECTIVE SHIELD (PERMANENT)	SQ YD	2688	648	612	347		609	472
X5030550	PROTECTIVE COAT (SPECIAL)	SQ YD	3720	574	583	556	593	555	859
X6050500	REMOVE FRAME AND GRATES (SPECIAL)	EACH	20	4	4	4		4	4
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	98					98	
X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	48	16	16			16	
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	3	1	1			1	
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	3			1	1		1
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	349	107	89	24		109	20

*= SPECIALTY ITEM

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PLOT SCALE = 100,0000 ' / in.	DRAWN - KYH	REVISED -
PLOT DATE = 2/15/2024	CHECKED - JJC	REVISED -
	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	7
			CONTRACT NO. 68H71	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

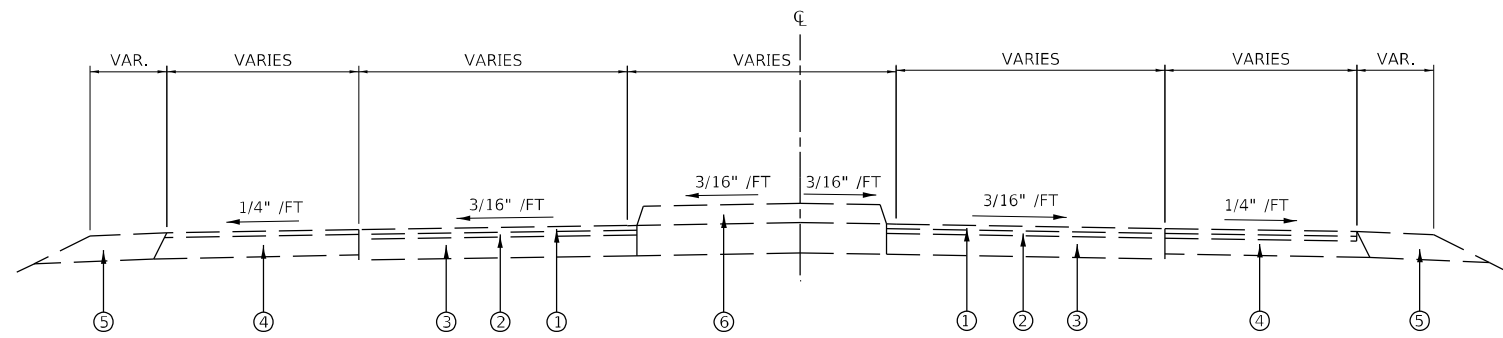
90% FED
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				BRIDGE 0047	BRIDGE 0047	BRIDGE 0047	BRIDGE 0047	BRIDGE 0047	BRIDGE 0047
				S.N. 090-0130	S.N. 090-0132	S.N. 090-0133	S.N. 090-0137	S.N. 090-0138	S.N. 090-0139
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	9070	2233	2325	1077		2239	1196
Z0012162	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	9070	2233	2325	1077		2239	1196
Z0012750	CONCRETE MEDIAN REPAIR	SQ FT	1653	889	85			679	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	852	117	399	86	3	108	139
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	86	12	40	9		11	14
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.00	0.17	0.17	0.16	0.16	0.17	0.17
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	8					6	2
Ø Z0076600	TRAINEES	HOUR	3,000	3,000					
Z0062456	TEMPORARY PAVEMENT	SQ YD	2675	1118	775			782	
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	3,000	3,000					
Z0065730	SLOPE WALL SLURRY PUMPING	CU YD	31.3	8.4	8.4	2	2	8.5	2

Ø 0042

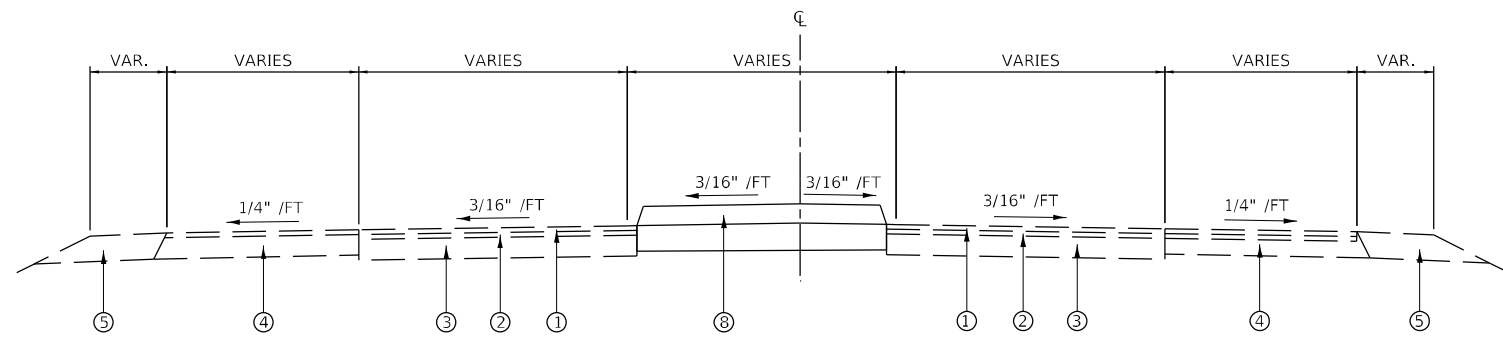
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 Hurst-Rosche, Inc.

 HURST-ROSCHÉ, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-9969 HR # 192-2330 www.hurst-rosche.com	USER NAME = ssoto DESIGNED - KYH DRAWN - KYH CHECKED - JJC DATE - 02/09/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 155 D4 BRIDGE JOINT REPAIR 2024 TAZEWELL 123 8
	PLOT SCALE = 100.0000' / in. PLOT DATE = 2/15/2024	SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT CONTRACT NO. 68H71



EXISTING TYPICAL SECTION

STA. 14+58.28 TO STA. 16+96.42
STA. 23+05.17 TO STA. 25+88.08

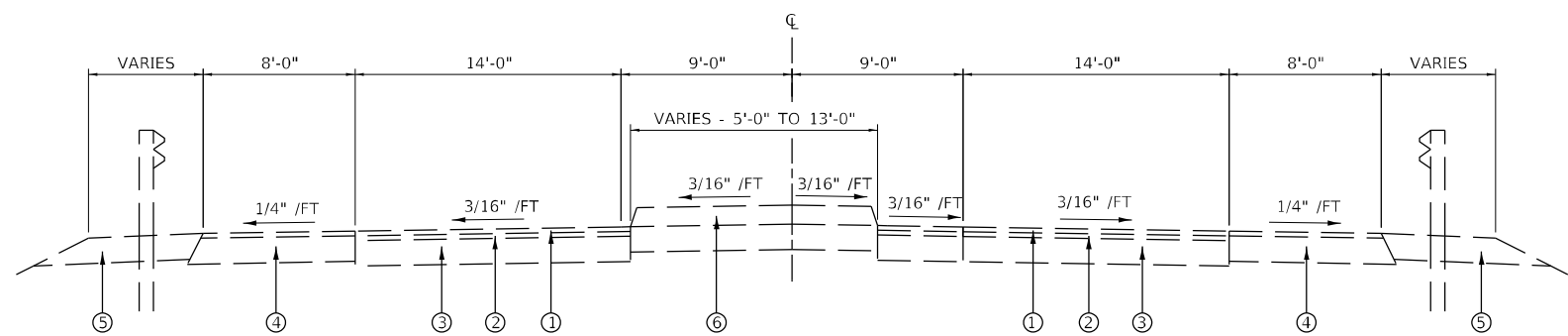


PROPOSED TYPICAL SECTION

STA. 14+58.28 TO STA. 16+96.42
STA. 23+05.17 TO STA. 25+88.08

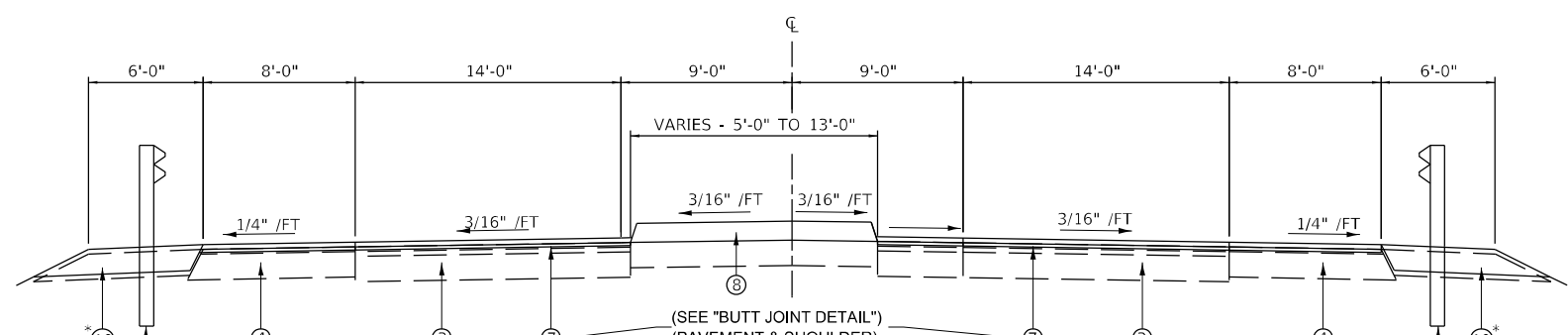
LEGEND

- ① EXISTING BITUMINOUS SURFACE
- ② EXISTING BITUMINOUS BINDER
- ③ EXISTING BASE COURSE
- ④ EXISTING SHOULDER BASE COURSE
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ HOT-MIX ASPHALT SURFACE COURSE, IL-9.0, N50
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
BITUMINOUS MATERIALS (TACK COAT)
- ⑧ CONCRETE MEDIAN, TYPE SB-6.06
- ⑨ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑩ GUARDRAIL AGGREGATE EROSION CONTROL*



EXISTING TYPICAL SECTION

STA. 17+59.42 TO STA. 17+89.42
STA. 22+10.58 TO STA. 22+40.58



PROPOSED TYPICAL SECTION

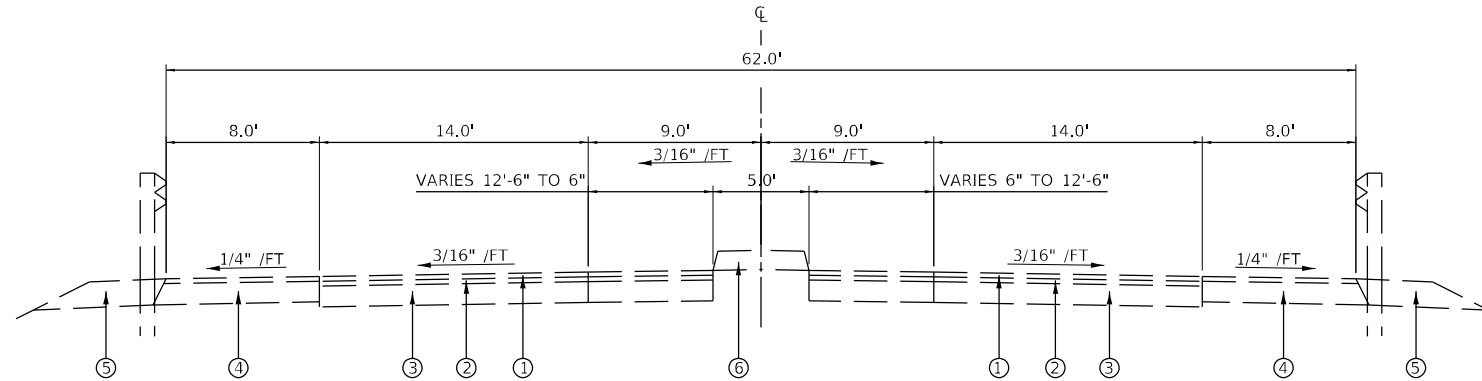
STA. 17+59.42 TO STA. 17+89.42
STA. 22+10.58 TO STA. 22+40.58

(FOR MEDIAN, SHOULDER, AND GUARDRAIL WORK STATION RANGES SEE PLAN SHEETS)

*SEE DISTRICT 4 STANDARD DRAWING - 630101-D4

MODEL: D:\p\hr\... FILE NAME: 20240909\objects\current\192-1063 IDOT D4 W02_PTB206-20_Various Bridges_Preservation\Drawings\68H71\0468H71-shr-typric1.dgn

<p>HURST-ROSCHKE, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3959 HR # 192-2330 www.hurst-roschke.com</p>	USER NAME = ssolo PLOT SCALE = 10,0000 * / in. PLOT DATE = 2/14/2024	DESIGNED - KYH DRAWN - KYH CHECKED - JJC DATE - 02/09/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION S.N. 090-0130	F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 155 D4 BRIDGE JOINT REPAIR 2024 TAZEWELL 123 9	ILLINOIS FED. AID PROJECT
	SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.	CONTRACT NO. 68H71					

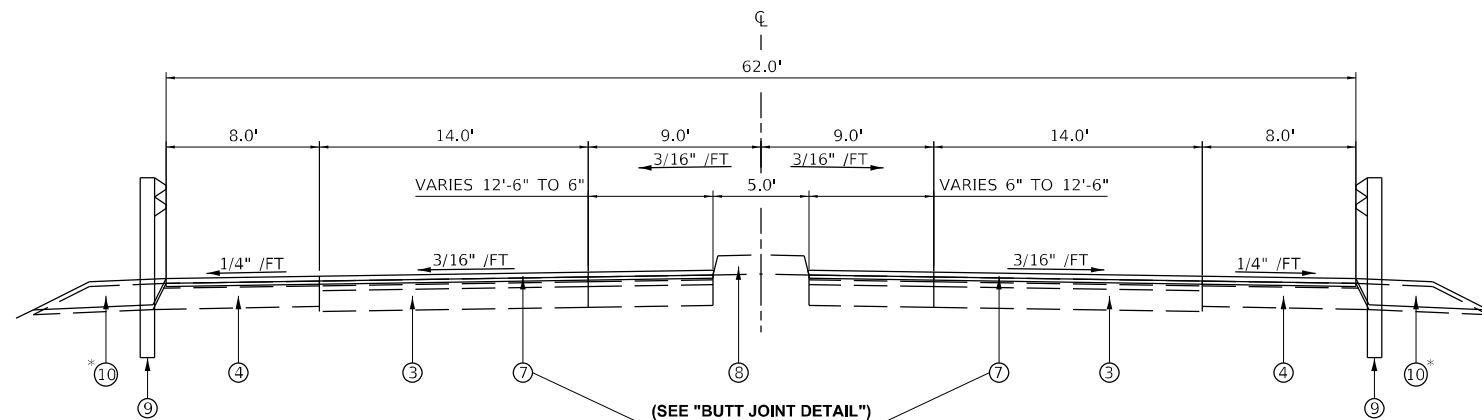


EXISTING TYPICAL SECTION

STA. 97+57.83 TO STA. 97+87.83
 STA. 102+12.17 TO STA. 102+42.17

LEGEND

- ① EXISTING BITUMINOUS SURFACE
- ② EXISTING BITUMINOUS BINDER
- ③ EXISTING BASE COURSE
- ④ EXISTING SHOULDER BASE COURSE
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ HOT-MIX ASPHALT SURFACE COURSE, IL-9.0, N50
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
BITUMINOUS MATERIALS (TACK COAT)
- ⑧ CONCRETE MEDIAN, SB-6.06
- ⑨ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑩ GUARDRAIL AGGREGATE EROSION CONTROL*



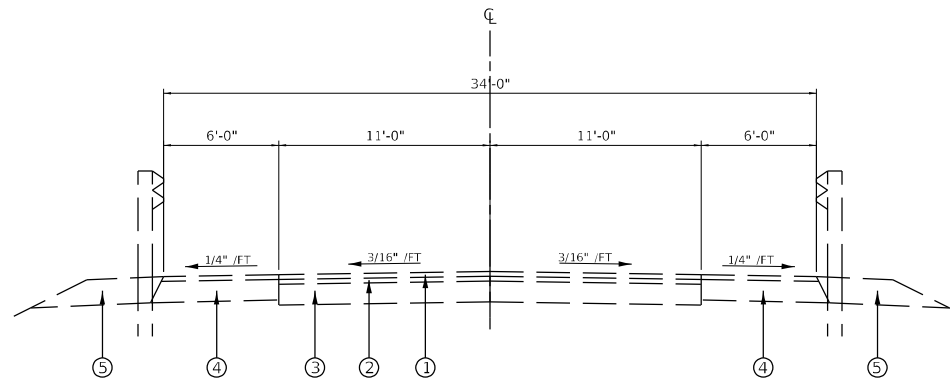
PROPOSED TYPICAL SECTION

STA. 97+57.83 TO STA. 97+87.83
 STA. 102+12.17 TO STA. 102+42.17
 (FOR MEDIAN, SHOULDER, AND GUARDRAIL WORK STATION RANGES SEE PLAN SHEETS)

*SEE DISTRICT 4 STANDARD DRAWING - 630101-D4

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 HURST-ROSCHKE, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3959 HR # 192-2330 www.hurst-roschke.com	USER NAME = ssoto PLOT SCALE = 10,0000 * / in. PLOT DATE = 2/14/2024	DESIGNED - KYH DRAWN - KYH CHECKED - JJC DATE - 02/09/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION S.N. 090-0132	F.A.I. SECTION COUNTY TOTAL SHEETS SHEET NO. 155 04 BRIDGE JOINT REPAIR 2024 TAZEWELL 123 10	ILLINOIS FED. AID PROJECT
	SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.	CONTRACT NO. 68H71					

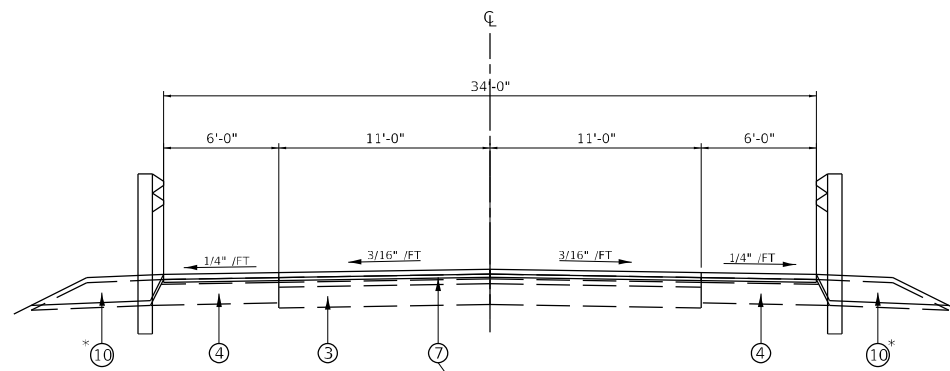


EXISTING TYPICAL SECTION

STA. 98+12.88 TO STA. 98+42.88
 STA. 101+57.12 TO STA. 101+87.12

LEGEND

- ① EXISTING BITUMINOUS SURFACE
- ② EXISTING BITUMINOUS BINDER
- ③ EXISTING BASE COURSE
- ④ EXISTING SHOULDER BASE COURSE
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ HOT-MIX ASPHALT SURFACE COURSE, IL-9.0, N50
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
BITUMINOUS MATERIALS (TACK COAT)
- ⑧ CONCRETE MEDIAN, TYPE SB-6.06
- ⑨ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑩ GUARDRAIL AGGREGATE EROSION CONTROL*



(SEE "BUTT JOINT DETAIL")
 (PAVEMENT & SHOULDER)

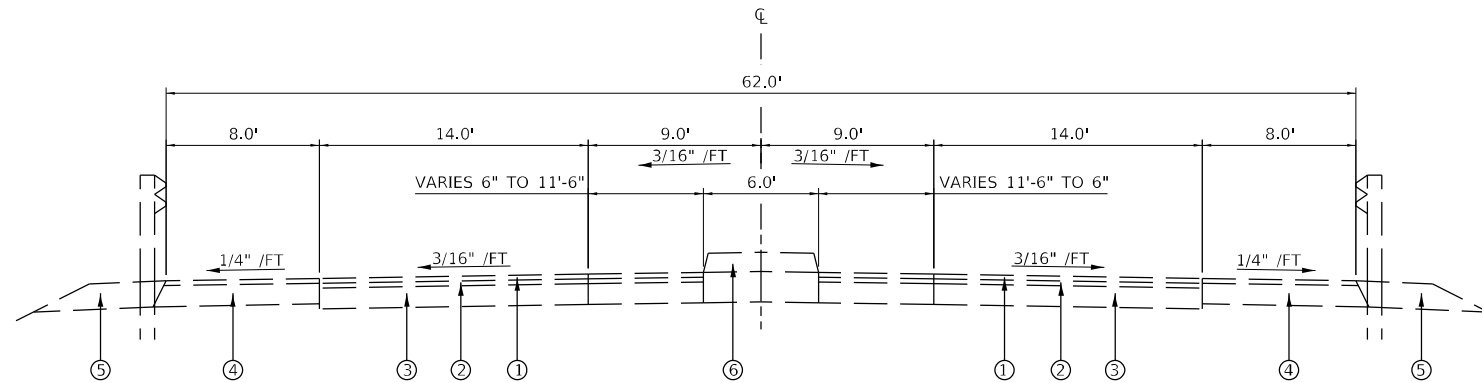
PROPOSED TYPICAL SECTION

STA. 98+12.88 TO STA. 98+42.88
 STA. 101+57.12 TO STA. 101+87.12
 (FOR MEDIAN, SHOULDER, AND GUARDRAIL WORK STATION RANGES SEE PLAN SHEETS)

*SEE DISTRICT 4 STANDARD DRAWING - 630101-D4

MODEL: D:\p\hr\155\15501\objects\current\192-1063 IDOT D4 W02 P1B206-30 Jordan Bridges Preservation\Drawings\15501\15501-192-1063-192-1063-192-1063.dwg
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 HURST-ROSCHKE, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3959 HR # 192-2330 www.hurst-roschke.com	USER NAME = ssoto DESIGNED - KYH DRAWN - KYH PLOT SCALE = 10,0000 * / in. PLOT DATE = 2/14/2024	DESIGNED - KYH DRAWN - KYH CHECKED - JJC DATE - 02/09/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION S.N. 090-0133		F.A.I. RTE.: SECTION: 155 D4 BRIDGE JOINT REPAIR 2024 COUNTY: TAZEWELL ILLINOIS FED. AID PROJECT	TOTAL SHEETS: 123 SHEET NO.: 11 CONTRACT NO. 68H71
	SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT						

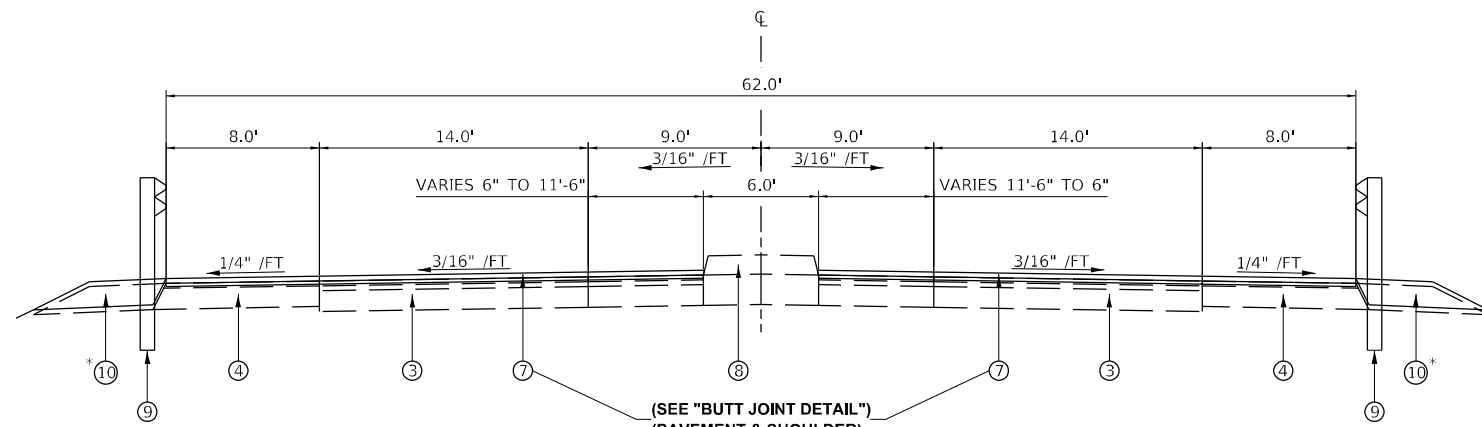


EXISTING TYPICAL SECTION

STA. 522+70.25 TO STA. 523+00.25
 STA. 527+13.75 TO STA. 527+43.75

LEGEND

- ① EXISTING BITUMINOUS SURFACE
- ② EXISTING BITUMINOUS BINDER
- ③ EXISTING BASE COURSE
- ④ EXISTING SHOULDER BASE COURSE
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ HOT-MIX ASPHALT SURFACE COURSE, IL-9.0, N50
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
BITUMINOUS MATERIALS (TACK COAT)
- ⑧ CONCRETE MEDIAN, SB-6.06
- ⑨ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑩ GUARDRAIL AGGREGATE EROSION CONTROL*



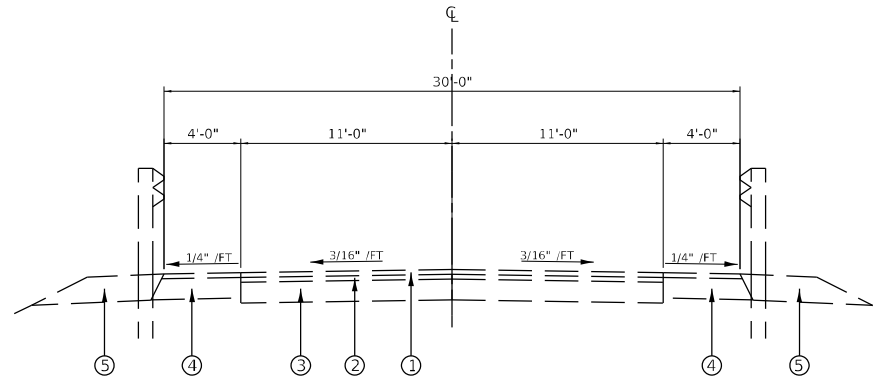
PROPOSED TYPICAL SECTION

STA. 522+70.25 TO STA. 523+00.25
 STA. 527+13.75 TO STA. 527+43.75
 (FOR MEDIAN, SHOULDER, AND GUARDRAIL WORK STATION RANGES SEE PLAN SHEETS)

*SEE DISTRICT 4 STANDARD DRAWING - 630101-D4

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 HURST-ROSCHÉ, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3959 HR # 192-2330 www.hurst-rosche.com	USER NAME = ssoto PLOT SCALE = 10,0000 * / in. PLOT DATE = 2/14/2024	DESIGNED - KYH DRAWN - KYH CHECKED - JJC DATE - 02/09/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION S.N. 090-0138	F.A.I. RTE.: SECTION: 155 D4 BRIDGE JOINT REPAIR 2024 COUNTY: TAZEWELL ILLINOIS FED. AID PROJECT	TOTAL SHEETS: 123 SHEET NO.: 13 CONTRACT NO. 68H71
	SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.						

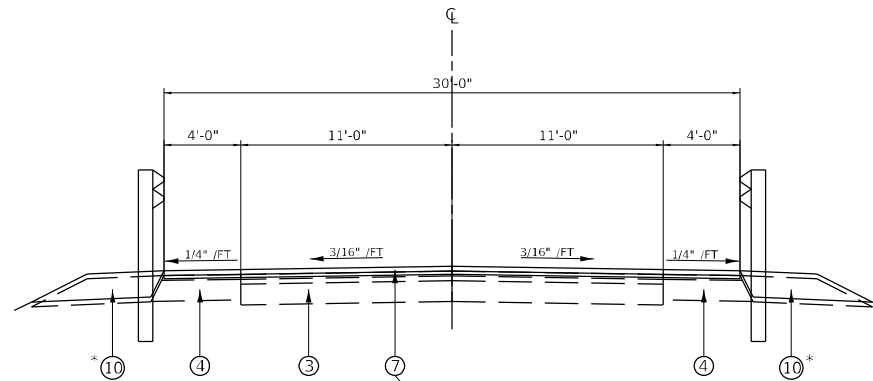


EXISTING TYPICAL SECTION

STA. 698+44.25 TO STA. 698+74.25
 STA. 702+39.25 TO STA. 702+69.25

LEGEND

- ① EXISTING BITUMINOUS SURFACE
- ② EXISTING BITUMINOUS BINDER
- ③ EXISTING BASE COURSE
- ④ EXISTING SHOULDER BASE COURSE
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ HOT-MIX ASPHALT SURFACE COURSE, IL-9.0, N50
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
BITUMINOUS MATERIALS (TACK COAT)
- ⑧ CONCRETE MEDIAN, SB-6.06
- ⑨ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑩ GUARDRAIL AGGREGATE EROSION CONTROL*



PROPOSED TYPICAL SECTION

STA. 698+44.25 TO STA. 698+74.25
 STA. 702+39.25 TO STA. 702+69.25

*SEE DISTRICT 4 STANDARD DRAWING - 630101-D4

MODEL: D:\p\hr\1511\1511.dwg
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 PLOT DATE: 2/14/2024

HURST-ROSCHKE, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3959 HR # 192-2330 www.hurst-roschke.com	USER NAME = ssoto DESIGNED - KYH DRAWN - KYH CHECKED - JJC DATE - 02/09/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION S.N. 090-0139	F.A.I. RTE.: SECTION: 155 D4 BRIDGE JOINT REPAIR 2024 COUNTY: TAZEWELL ILLINOIS FED. AID PROJECT	TOTAL SHEETS: 123 SHEET NO.: 14 CONTRACT NO. 68H71
	PLOT SCALE = 10,0000 * / in. PLOT DATE = 2/14/2024	SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.				

SCHEDULE OF QUANTITIES

				PAVEMENT MARKING SCHEDULE																
LOCATION				70107005	70300100	70300150	70307100	70307120	70307140	70307160	70307210	78009000	78009004	78009008	78009012	78009024	78100100	78300200	78300202	
				PAVT MK BLKOUT	SHORT TERM	SHRT TRM PAVT	TMP PVT MK L&S	TMP PVT MK L4	TMP PVT MK L8	TMP PVT MK L12	TMP PVT MK L24	MOD URETH PM	MOD URETH PM	MOD URETH PM	MOD URETH PM	MOD URETH PM	RAISED REFL PAVT	RAISED REF PVT	PAVMT MRKG	
				TAPE 5	PAVT MKING	MK REM	T4 TAP	T4 TAPE	T4 TAPE	T4 TAP	T4 TAP	LTR-SYM	LINE 4	LINE 8	LINE 12	LINE 24	MKR	MK REM	REM WTR BL	
STATION	LOCATION	OFFSET		FOOT	FOOT	SQ FT	SQ FT	FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	SQ FT	
S.N. 090-0130																				
17+01.70	TO	22+87.94	EDGE	LT	589		246													
17+59.42	TO	22+40.58	EDGE	LT			161		482					482						
17+59.42	TO	22+40.58	EDGE	RT			161		482					482						
14+58.28	TO	16+96.42	MEDIAN	LT/RT			164		492					492						
17+28.09	TO	22+50.12	MEDIAN	LT/RT			354		1062					1062						
23+05.17	TO	25+88.08	MEDIAN	LT/RT			193		577					577						
20+88.21	TO	22+40.58	TRN LN	RT		15	80	23	153			23	153							
16+04.04	TO	16+88.10	RAMP	LT			424	23		215	185	36	23		215	185	36		424	
23+08.08	TO	23+73.27	RAMP	LT			359			189	233			189	233				359	
S.N. 090-0132																				
96+26.19	TO	103+61.62	EDGE	LT	736		307													
96+89.96	TO	97+57.83	TRN LN	LT			29													
96+31.87	TO	103+63.51	EDGE	RT	733		306													
102+42.17	TO	103+10.09	TRN LN	RT	68		29													
97+57.83	TO	102+42.17	EDGE	LT			162		485					485						
97+57.83	TO	102+42.17	EDGE	RT			162		485					485						
94+32.25	TO	96+12.94	MEDIAN	LT/RT			124		371					371						
96+86.37	TO	103+10.16	MEDIAN	LT/RT			423		1267					1267						
103+85.79	TO	105+67.10	MEDIAN	LT/RT			124		372					372						
97+57.83	TO	99+09.51	TRN LN	LT		15	69	12	152			12	152							
100+96.46	TO	102+42.17	TRN LN	RT		15	66	12	146			12	146							
95+36.97	TO	96+14.70	RAMP	LT			404	23		226	162	34	23		226	162	34		404	
95+49.86	TO	96+11.70	RAMP	RT			376			194	246			194	246				376	
103+83.41	TO	104+62.71	RAMP	LT			410			222	262			222	262				410	
103+91.62	TO	104+68.19	RAMP	RT			394	23		207	171	31	23		207	171	31		394	
S.N. 090-0133																				
98+12.88	TO	101+87.12	EDGE	LT			125		375					375						
98+12.88	TO	101+87.12	EDGE	RT			125		375					375						
98+12.88	TO	101+87.12	CL	LT/RT		38	263		749					749			2	2		
S.N. 090-0138																				
522+70.25	TO	527+43.75	MEDIAN	LT													4	4		
522+70.25	TO	527+43.75	MEDIAN	RT													4	4		
521+40.38	TO	528+50.80	EDGE	LT	712		297													
521+82.55	TO	522+70.26	TRN LN	LT	88		37													
521+55.71	TO	528+67.49	EDGE	RT	712		297													
522+70.25	TO	527+43.75	EDGE	LT			158		474					474						
522+70.25	TO	527+43.75	EDGE	RT			158		474					474						
519+45.22	TO	521+18.22	MEDIAN	LT/RT			118		354					354						
521+88.66	TO	528+16.42	MEDIAN	LT/RT			424		1270					1270						
528+86.93	TO	530+68.84	MEDIAN	LT/RT			125		373					373						
522+70.25	TO	523+71.57	TRN LN	LT		11	50	12	102			12	102							
526+48.13	TO	527+43.75	TRN LN	RT		10	48	12	96			12	96							
520+56.36	TO	521+24.17	RAMP	LT			307	23		162	108	34	23		162	108	34		307	
520+57.11	TO	521+25.93	RAMP	RT			337			193	208			193	208				337	
528+78.24	TO	529+51.33	RAMP	LT			368			198	236			198	236				368	
528+78.68	TO	529+46.78	RAMP	RT			308	23		152	113	35	23		152	113	35		308	
S.N. 090-0139																				
698+44.25	TO	702+69.25	EDGE	LT			142		425					425						
698+44.25	TO	702+69.25	EDGE	RT			142		425					425						
698+44.25	TO	702+04.29	CL	LI/RI			241		721					721						
702+04.29	TO	702+69.25	CL	LT/RT			28		82					82						
698+44.25	TO	702+69.25	CL	LT/RT		43	15										2	2		
S.N. 090-0130 SUBTOTAL					589	15	2142	46	3248	404	418	36	46	3248	404	418	36			783
S.N. 090-0132 SUBTOTAL					1606	31	3385	70	3278	849	841	65	70	3278	849	841	65			1584
S.N. 090-0133 SUBTOTAL						38	513		1499					1499			2	2		
S.N. 090-0138 SUBTOTAL					1512	21	3032	70	3143	705	665	69	70	3143	705	665	69	8	8	1320
S.N. 090-0139 SUBTOTAL						43	568		1653					1653			2	2		
TOTAL					3707	149	9640	186	12821	1958	1924	170	186	12821	1958	1924	170	12	12	3687

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 HURST-ROSCHKE, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3859 HR # 192-2330 www.hurst-roschke.com	USER NAME = ssolo PLOT SCALE = 100,0000' / in. PLOT DATE = 2/14/2024	DESIGNED - KYH DRAWN - KYH CHECKED - JJC DATE - 02/09/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.	F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 155 04 BRIDGE JOINT REPAIR 2024 TAZEWELL 123 16 ILLINOIS FED. AID PROJECT CONTRACT NO. 68H71
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SCHEDULE OF QUANTITIES

GUARDRAIL SCHEDULE											
LOCATION		44000300 CURB REM	60600605 CONC CURB TB	63000001 SPBGR TY A 6FT POSTS	63100085 TRAF BAR TERM T6	63100167 TR BAR TRM T1 SPL TAN	63100169 TR BAR TRM T1 SPL FLR	63200310 GUARDRAIL REMOV	72501000 TERMINAL MARKER - DA	X6330725 SPBGR (SHORT RADIUS)	X6350204 LINEAR DELIN PANELS 4
STATION	OFFSET	FOOT	FOOT	FOOT	EACH	EACH	EACH	FOOT	EACH	FOOT	EACH
S.N. 090-0130											
18+74.98	TO	18+81.98	LT	7	16						
18+79.08	TO	18+86.85	RT	8	16						
21+13.15	TO	21+20.92	LT	8	16						
21+18.02	TO	21+25.02	RT	7	16						
18+08.01	TO	18+45.08	LT			37.5					4
17+94.80	TO	18+49.95	RT			62.5					4
21+50.07	TO	22+10.16	LT			62.5					4
21+54.92	TO	22+00.23	RT			50.0					4
18+45.08	TO	18+74.98	LT				1				
18+49.95	TO	18+86.85	RT				1				
21+13.17	TO	21+50.07	LT				1				
21+18.02	TO	21+54.92	RT				1				
17+58.01	TO	18+08.01	LT					1			
22+00.23	TO	22+50.23	RT					1			
17+44.80	TO	17+94.80	RT						1		
22+10.16	TO	22+60.16	LT						1		
17+58.01	TO	18+81.98	LT							125	
17+44.80	TO	18+86.85	RT							143	
21+13.17	TO	22+60.16	LT							148	
21+18.02	TO	22+50.23	RT							133	
S.N. 090-0132											
98+76.41	TO	98+83.40	LT	7	16						
98+75.25	TO	98+82.24	RT	7	16						
101+17.75	TO	101+24.74	LT	7	16						
101+16.60	TO	101+23.58	RT	7	16						
98+15.34	TO	98+46.50	LT			37.5					4
97+46.64	TO	98+45.34	RT			100.0					4
101+54.65	TO	102+53.36	LT			100.0					4
101+53.50	TO	101+77.27	RT			25.0					4
98+46.50	TO	98+83.40	LT				1				
98+45.34	TO	98+82.24	RT				1				
101+17.75	TO	101+54.65	LT				1				
101+16.60	TO	101+53.50	RT				1				
97+65.34	TO	98+15.34	LT					1			
96+96.64	TO	97+46.64	RT					1			
101+77.27	TO	102+27.27	RT				1				
102+53.36	TO	103+03.36	LT					1			
97+65.34	TO	98+83.40	LT						119		
96+96.64	TO	98+82.24	RT						186		
101+17.75	TO	103+03.36	LT						186		
101+16.60	TO	102+27.27	RT						111		
S.N. 090-0133											
98+80.88	TO	98+87.95	LT	8	16						
98+80.88	TO	98+87.88	RT	7	16						
101+12.20	TO	101+19.13	LT	7	16						
101+12.13	TO	101+19.13	RT	7	16						
98+51.05	TO	98+87.95	LT						37		
98+50.98	TO	98+87.88	RT						37		
101+12.20	TO	101+49.10	LT						37		
101+12.13	TO	101+49.03	RT						37		
S.N. 090-0138											
523+88.29	TO	523+95.29	LT	7	16						
523+88.21	TO	523+95.21	RT	7	16						
526+18.75	TO	526+25.75	LT	7	16						
526+18.75	TO	526+25.75	RT	7	16						
522+30.21	TO	523+58.39	LT			137.5					4
521+65.19	TO	523+58.31	RT			187.5					4
526+55.65	TO	528+36.85	LT			200.0					4
526+55.65	TO	527+88.05	RT			137.5					4

GUARDRAIL SCHEDULE											
LOCATION		44000300 CURB REM	60600605 CONC CURB TB	63000001 SPBGR TY A 6FT POSTS	63100085 TRAF BAR TERM T6	63100167 TR BAR TRM T1 SPL TAN	63100169 TR BAR TRM T1 SPL FLR	63200310 GUARDRAIL REMOV	72501000 TERMINAL MARKER - DA	X6330725 SPBGR (SHORT RADIUS)	X6350204 LINEAR DELIN PANELS 4
STATION	OFFSET	FOOT	FOOT	FOOT	EACH	EACH	EACH	FOOT	EACH	FOOT	EACH
S.N. 090-0138											
523+58.39	TO	523+95.29	LT							1	
523+58.31	TO	523+95.21	RT							1	
526+18.75	TO	526+55.65	LT							1	
526+18.75	TO	526+55.65	RT							1	
521+80.21	TO	522+30.21	LT								4
527+88.05	TO	528+38.05	RT							1	
521+33.97	TO	521+65.19	RT							1	39
528+36.85	TO	528+76.05	LT							1	59
521+80.21	TO	523+95.29	LT								216
521+33.81	TO	523+95.21	RT								270
526+18.75	TO	528+76.99	LT								278
526+18.75	TO	528+38.05	RT								220
S.N. 090-0139											
698+82.25	TO	698+89.25	LT	7	16						
698+82.25	TO	698+89.25	RT	7	16						
702+24.25	TO	702+31.25	LT	7	16						
702+24.25	TO	702+31.25	RT	7	16						
698+52.35	TO	698+89.25	LT							1	37
698+52.35	TO	698+89.25	RT							1	37
702+24.25	TO	702+61.15	LT							1	37
702+24.25	TO	702+61.15	RT							1	37
S.N. 090-0130 SUBTOTAL		30	64	212.5	4	2	2	549	4		16
S.N. 090-0132 SUBTOTAL		28	64	262.5	4	2	2	602	4		16
S.N. 090-0133 SUBTOTAL		29	64		4			148			
S.N. 090-0138 SUBTOTAL		28	64	662.5	4	2		984	4	98	16
S.N. 090-0139 SUBTOTAL		28	64		4			148			
TOTAL		143	320	1137.5	20	6	4	2431	12	98	48

DRAINAGE SCHEDULE						
LOCATION		28100725 STONE DUMPED RIPRAP, CLASS B3	50105220 PIPE CULVERT REMOVAL	X6050500 REMOVE FRAME AND GRATES (SPECIAL)		
STATION	OFFSET	SQ YD	FOOT	EACH		
S.N. 090-0130						
18+72.33	TO	19+03.47	LT	75	67	1
18+76.10	TO	19+08.25	RT	75	67	1
20+91.75	TO	21+23.72	LT	75	12	1
20+96.53	TO	21+27.89	RT	75	24	1
S.N. 090-0132						
98+73.18	TO	99+05.18	LT	75	20	1
98+72.09	TO	99+03.98	RT	75	73	1
100+96.01	TO	101+27.90	LT	75	79	1
100+94.78	TO	101+26.65	RT	75	83	1
S.N. 090-0133						
98+77.42	TO	99+09.46	LT	24	75	1
98+77.54	TO	99+09.46	RT	24	75	1
100+90.55	TO	101+22.51	LT	24	75	1
100+90.55	TO	101+22.52	RT	24	75	1
S.N. 090-0138						
523+86.29	TO	524+17.46	LT	88	75	1
523+86.22	TO	524+17.46	RT	88	75	1
525+96.54	TO	526+27.76	LT	88	75	1
525+96.54	TO	526+27.79	RT	88	75	1
S.N. 090-0139						
698+79.11	TO	699+09.21	LT	75	75	1
698+79.43	TO	699+09.21	RT	75	75	1
702+04.29	TO	702+34.08	LT	88	75	1
702+04.29	TO	702+33.91	RT	88	75	1
S.N. 090-0130 SUBTOTAL		300	170	4		
S.N. 090-0132 SUBTOTAL		300	255	4		
S.N. 090-0133 SUBTOTAL		96	300	4		
S.N. 090-0138 SUBTOTAL		352	300	4		
S.N. 090-0139 SUBTOTAL		326	300	4		
TOTAL		1374	1325	20		

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HURST-ROSCHÉ, INC.
HILLSBORO, ILLINOIS 62049
PHONE (618)332-3959
HR # 192-2330
www.hurst-rosche.com

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PLOT DATE = 2/14/2024

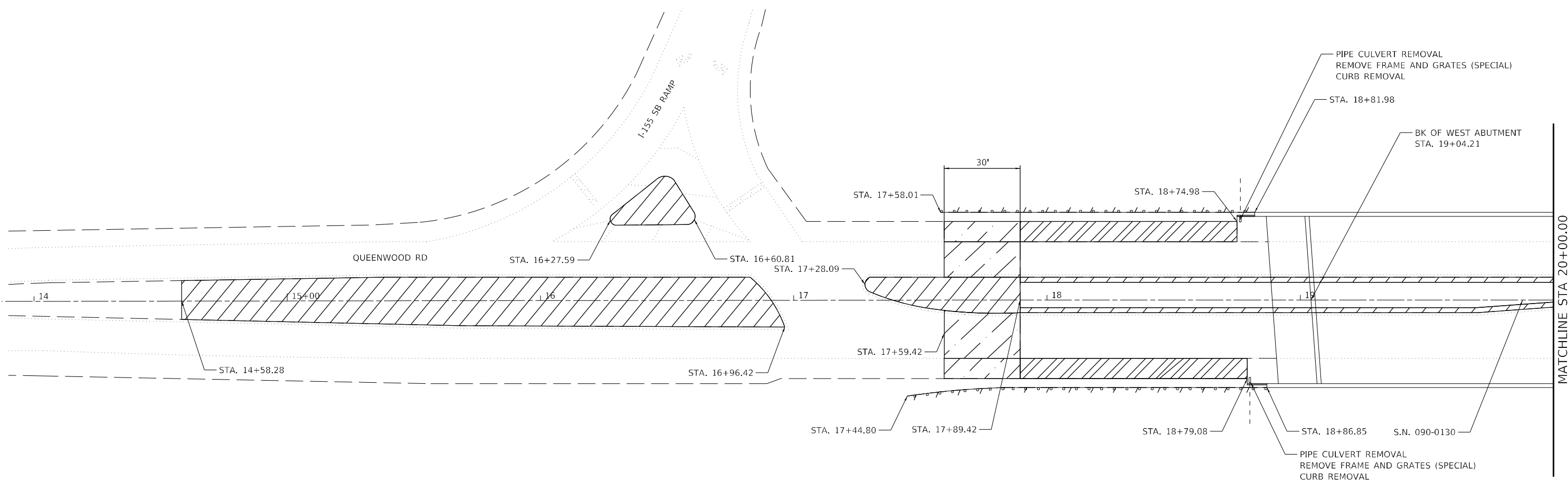
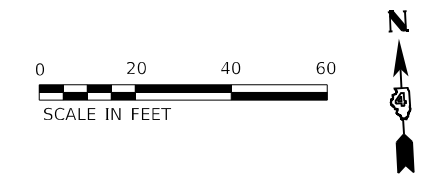
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DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	17
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



LEGEND

- BUTT JOINT REMOVAL
- HMA SURFACE REMOVAL 1"
- MEDIAN REMOVAL
- GUARDRAIL REMOVAL

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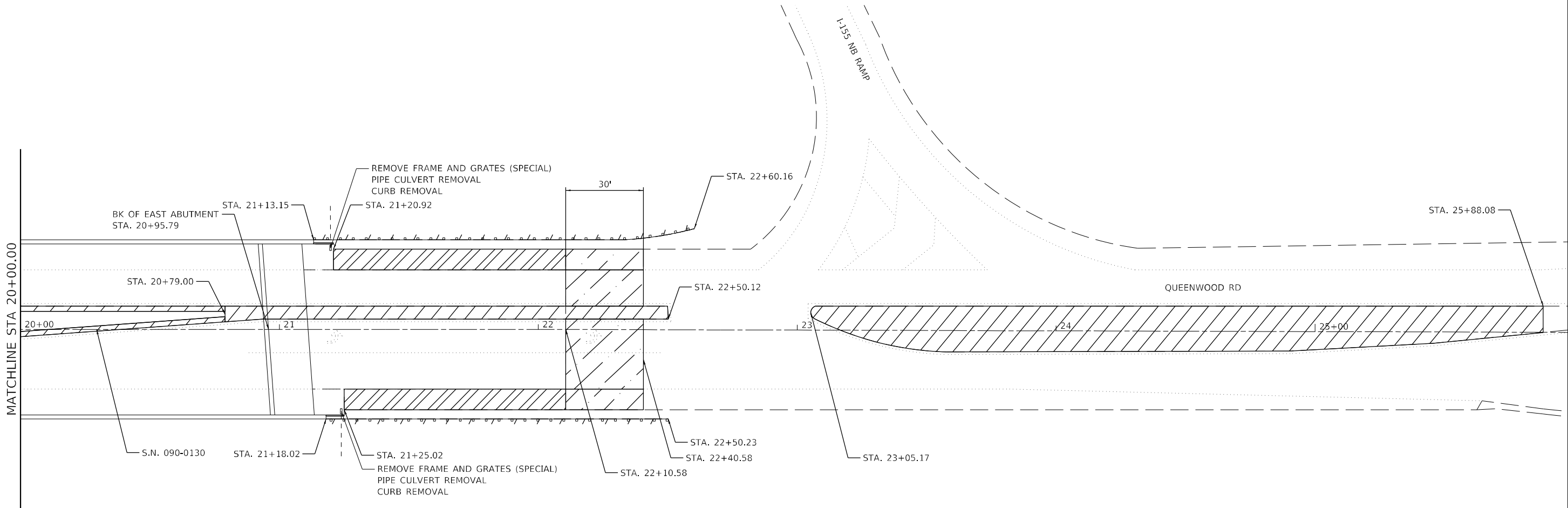
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
S.N. 090-0130**

SCALE: 1" = 20' SHEET 1 OF 8 SHEETS STA. 14+58.28 TO STA. 20+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	04 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

- BUTT JOINT REMOVAL
- HMA SURFACE REMOVAL 1"
- MEDIAN REMOVAL
- GUARDRAIL REMOVAL

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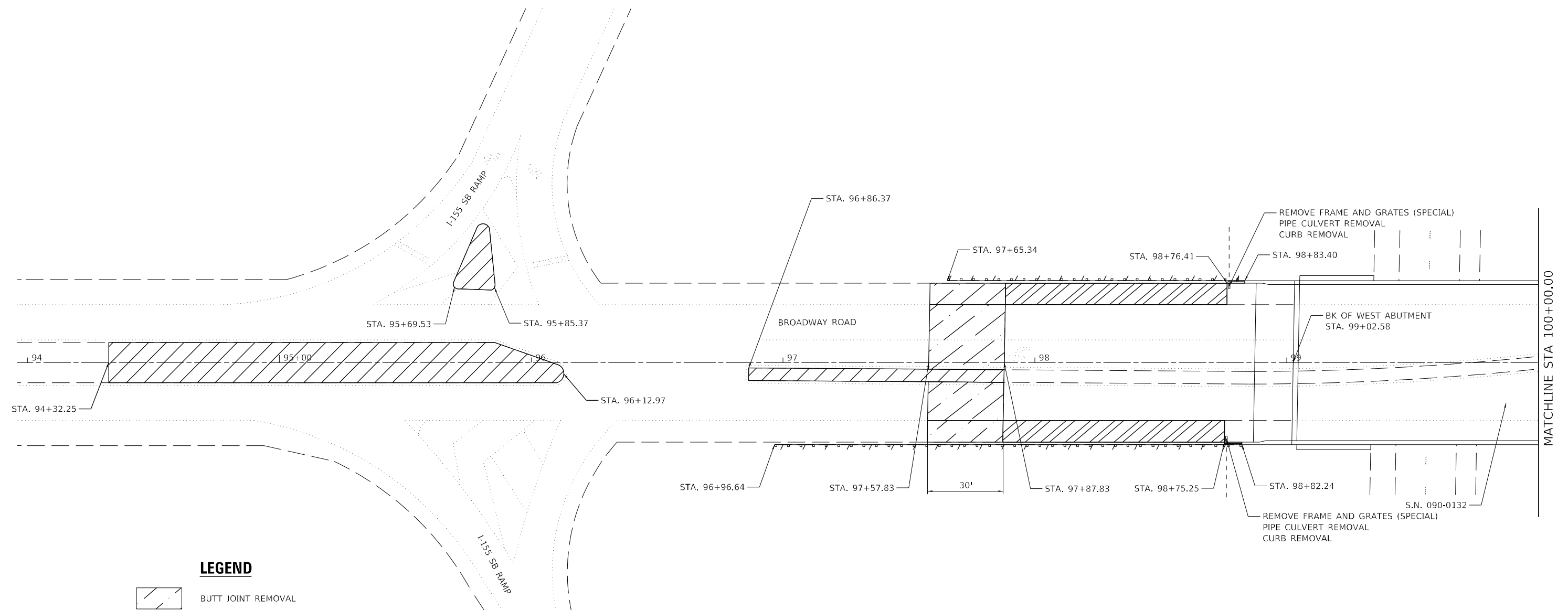
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
S.N. 090-0130**

SCALE: 1" = 20' SHEET 2 OF 8 SHEETS STA. 20+00.00 TO STA. 25+88.08

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	20
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 68H71



LEGEND

- BUTT JOINT REMOVAL
- HMA SURFACE REMOVAL 1"
- MEDIAN REMOVAL
- GUARDRAIL REMOVAL

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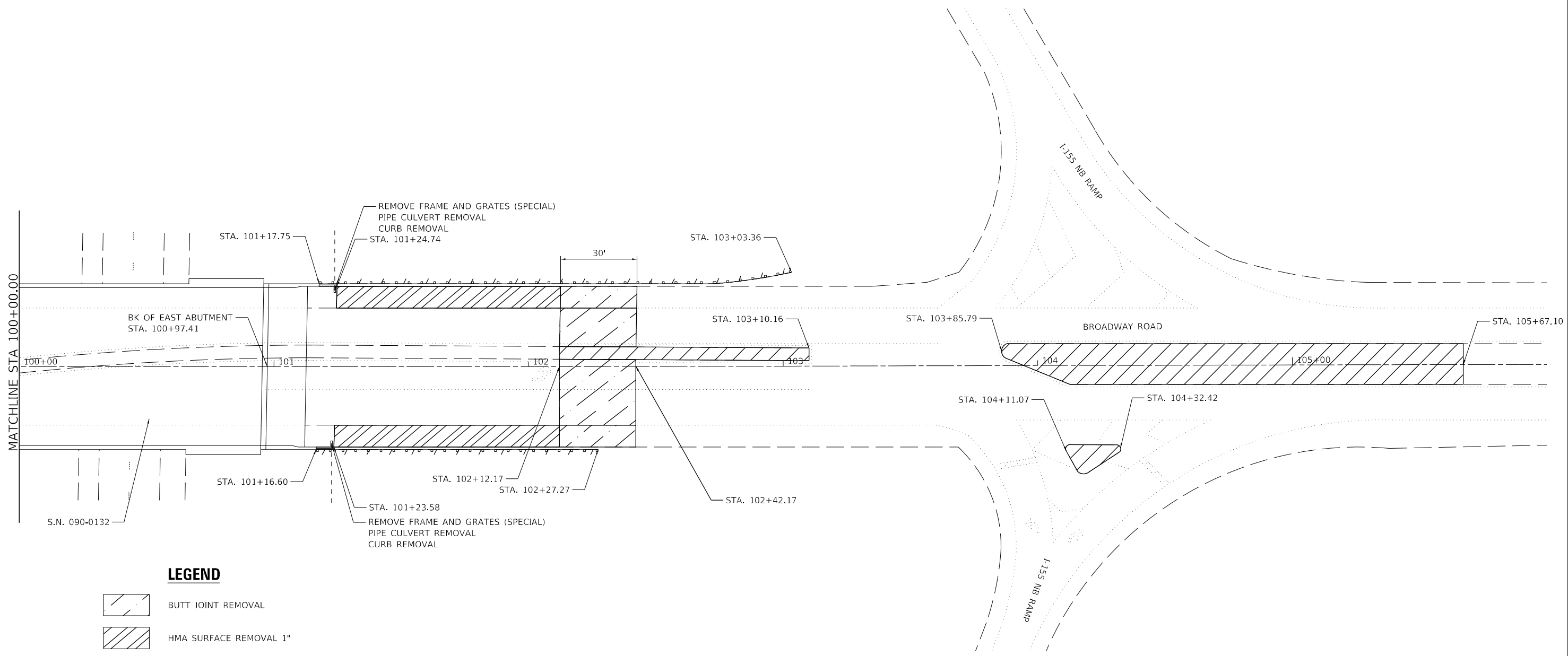
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PLOT DATE = 2/14/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
S.N. 090-0132

SCALE: 1" = 20' SHEET 3 OF 8 SHEETS STA. 94+32.25 TO STA. 100+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

- BUTT JOINT REMOVAL
- HMA SURFACE REMOVAL 1"
- MEDIAN REMOVAL
- GUARDRAIL REMOVAL

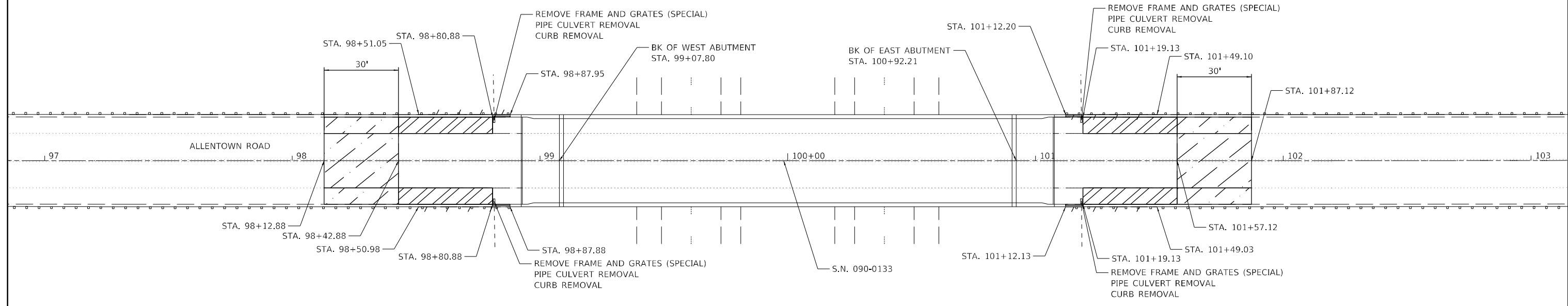
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DRAWN - SMS	REVISIONS -	
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



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN			
S.N. 090-0132			
SCALE: 1" = 20'	SHEET 4	OF 8 SHEETS	STA. 100+00.00 TO STA. 105+67.10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

-  BUTT JOINT REMOVAL
-  HMA SURFACE REMOVAL 1"
-  MEDIAN REMOVAL
-  GUARDRAIL REMOVAL

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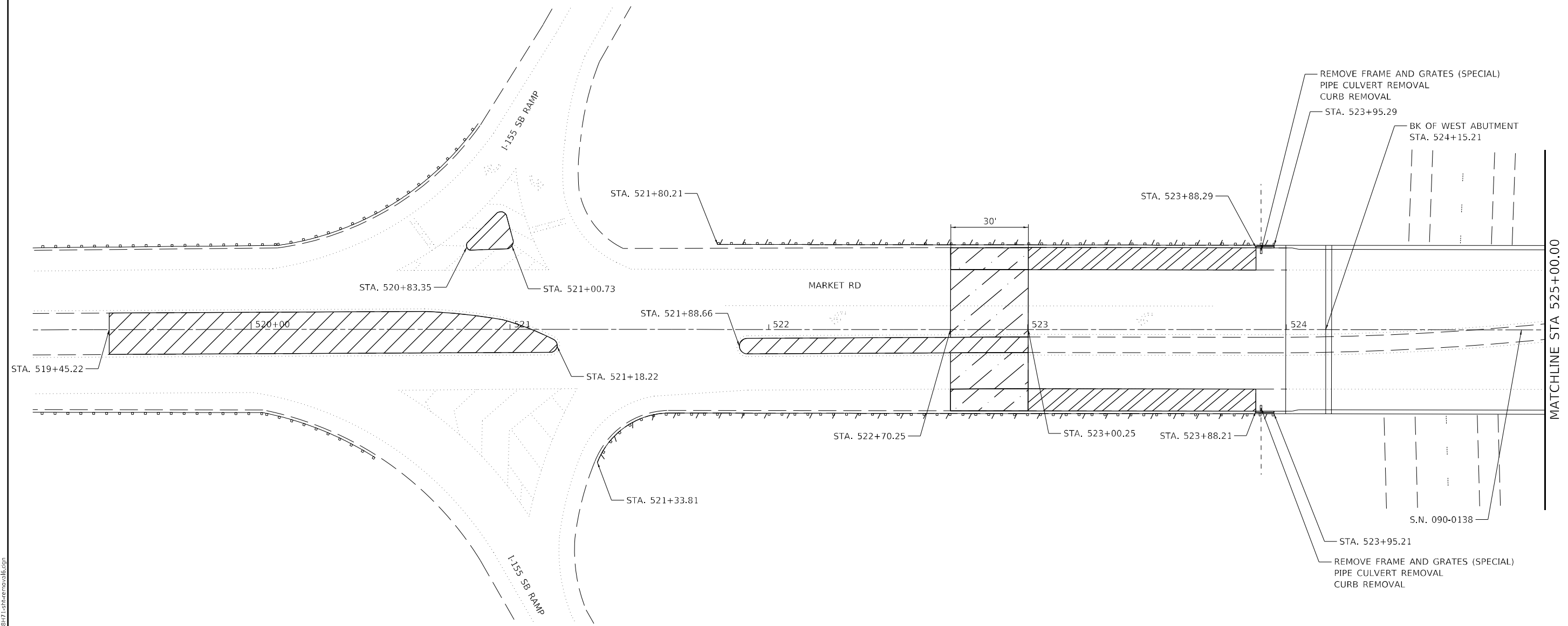
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
S.N. 090-0133**

SCALE: 1" = 20' SHEET 5 OF 8 SHEETS STA. 98+12.88 TO STA. 101+87.12

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	23
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 68H71



LEGEND

- BUTT JOINT REMOVAL
- HMA SURFACE REMOVAL 1"
- MEDIAN REMOVAL
- GUARDRAIL REMOVAL

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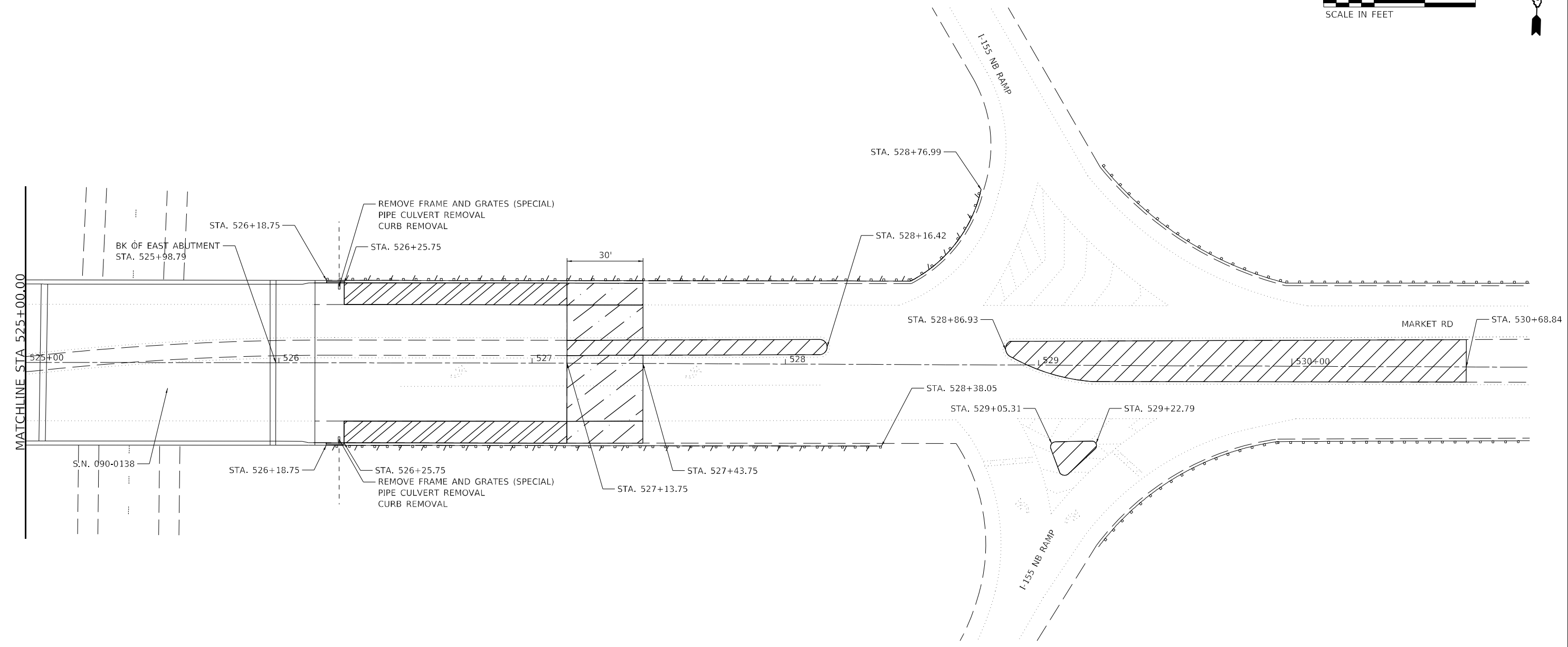
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
S.N. 090-0138**

SCALE: 1" = 20' SHEET 6 OF 8 SHEETS STA. 519+45.22 TO STA. 525+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	24
			CONTRACT NO. 68H71	
ILLINOIS FED. AID PROJECT				



LEGEND

- BUTT JOINT REMOVAL
- HMA SURFACE REMOVAL 1"
- MEDIAN REMOVAL
- GUARDRAIL REMOVAL

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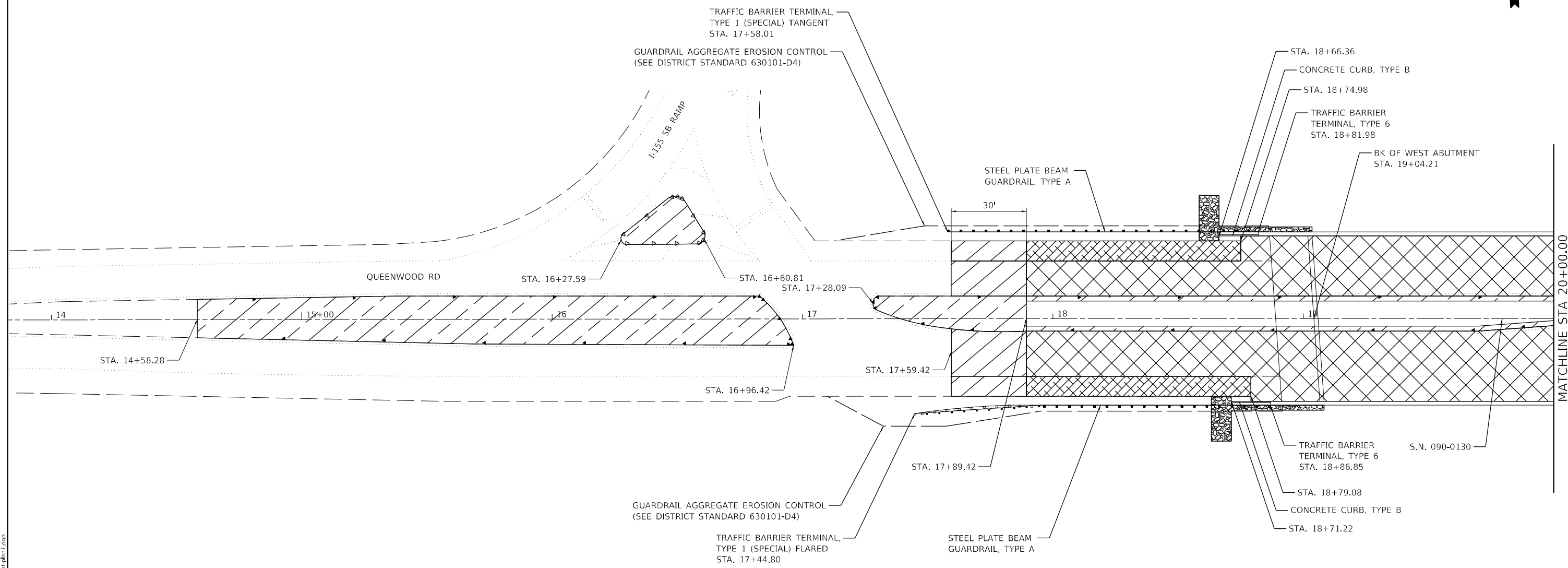
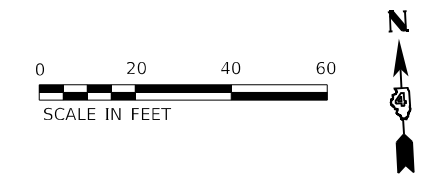
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
S.N. 090-0138**






SCALE: 1" = 20' SHEET 7 OF 8 SHEETS STA. 525+00.00 TO STA. 530+68.84

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	25
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 68H71



LEGEND

-  PROPOSED BRIDGE DECK SCARIFICATION 3/4"
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"
-  HMA PAVEMENT - SEE BUTT JOINT DETAILS
-  HMA SHOULDERS, 2 1/2"
-  CONCRETE MEDIAN, TYPE SB-6.06
-  STONE DUMPED RIPRAP, CLASS B3 - SEE DETAIL SHEET

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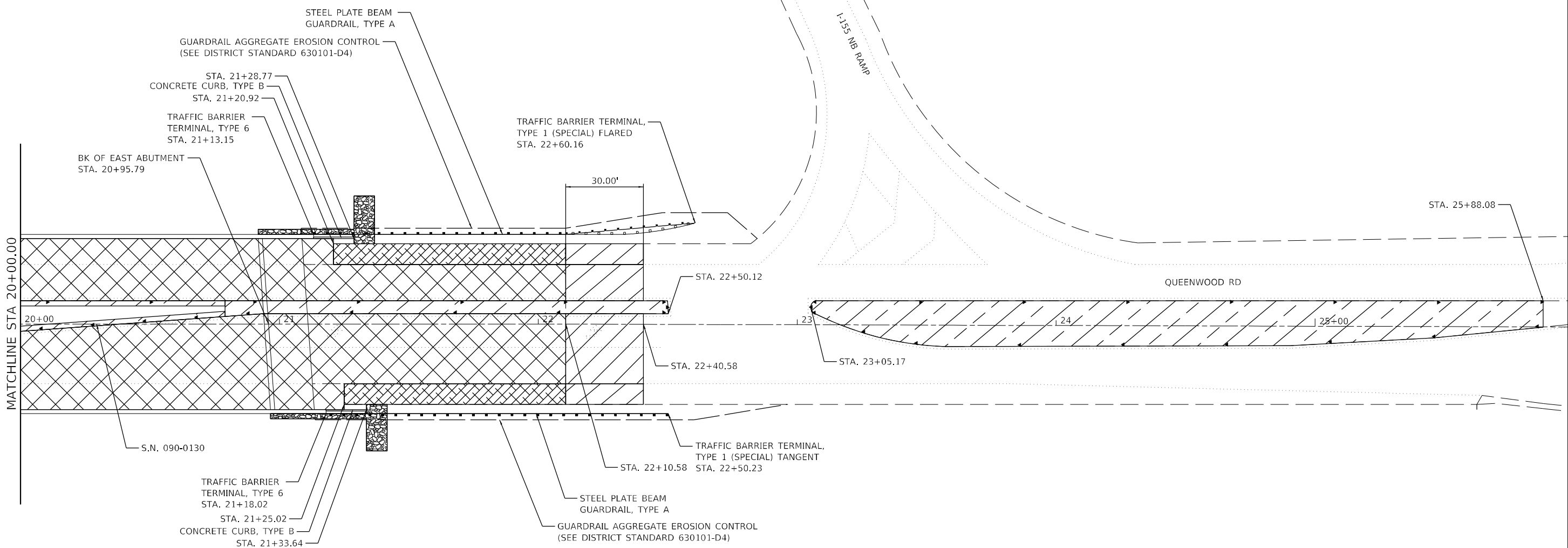
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION






PLAN
S.N. 090-0130
 SCALE: 1" = 20' SHEET 1 OF 9 SHEETS STA. 14+58.28 TO STA. 20+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	27
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA 20+00.00



LEGEND

-  PROPOSED BRIDGE DECK SCARIFICATION 3/4"
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"
-  HMA PAVEMENT - SEE BUTT JOINT DETAILS
-  HMA SHOULDER, 2 1/2"
-  CONCRETE MEDIAN, TYPE SB-6.06
-  STONE DUMPED RIPRAP, CLASS B3 - SEE DETAIL SHEET

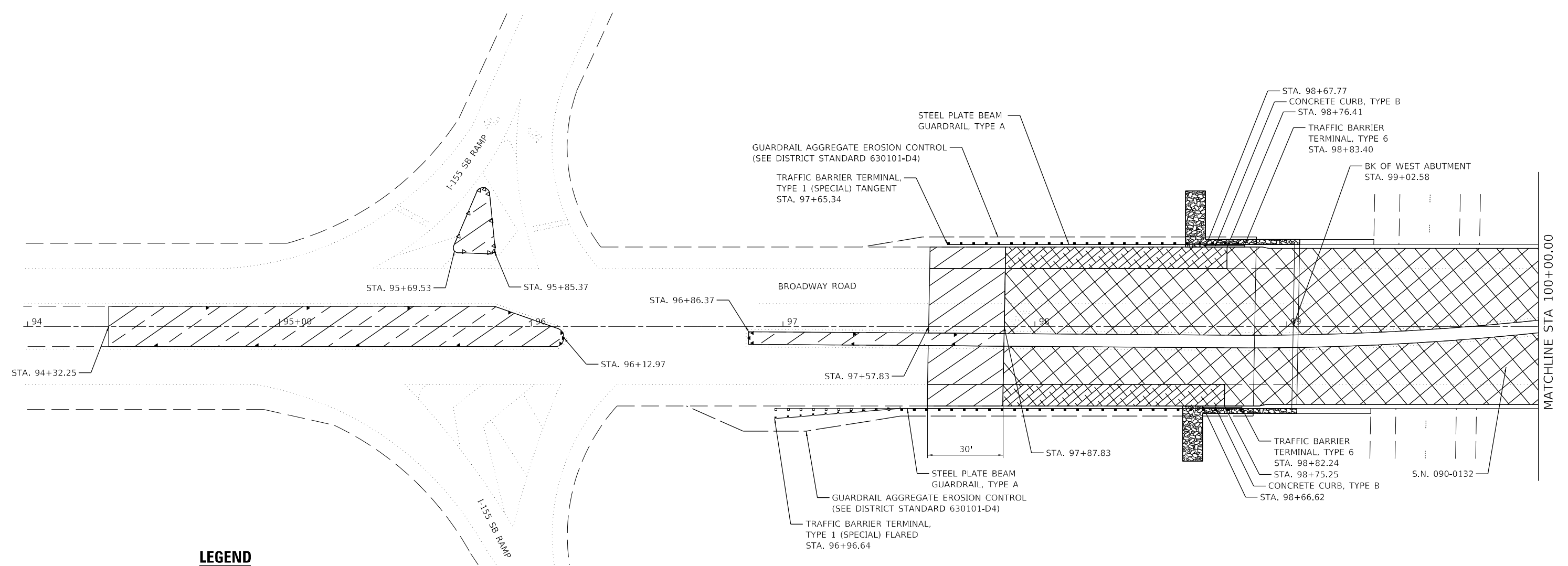
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



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN	
S.N. 090-0130	
SCALE: 1" = 20'	SHEET 2 OF 9 SHEETS
STA. 20+00.00	TO STA. 25+88.08

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	28
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



LEGEND

-  PROPOSED BRIDGE DECK SCARIFICATION 3/4"
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"
-  HMA PAVEMENT - SEE BUTT JOINT DETAILS
-  HMA SHOULDER, 2 1/2"
-  CONCRETE MEDIAN, TYPE SB-6.06
-  STONE DUMPED RIPRAP - CLASS B3 - SEE DETAIL SHEET

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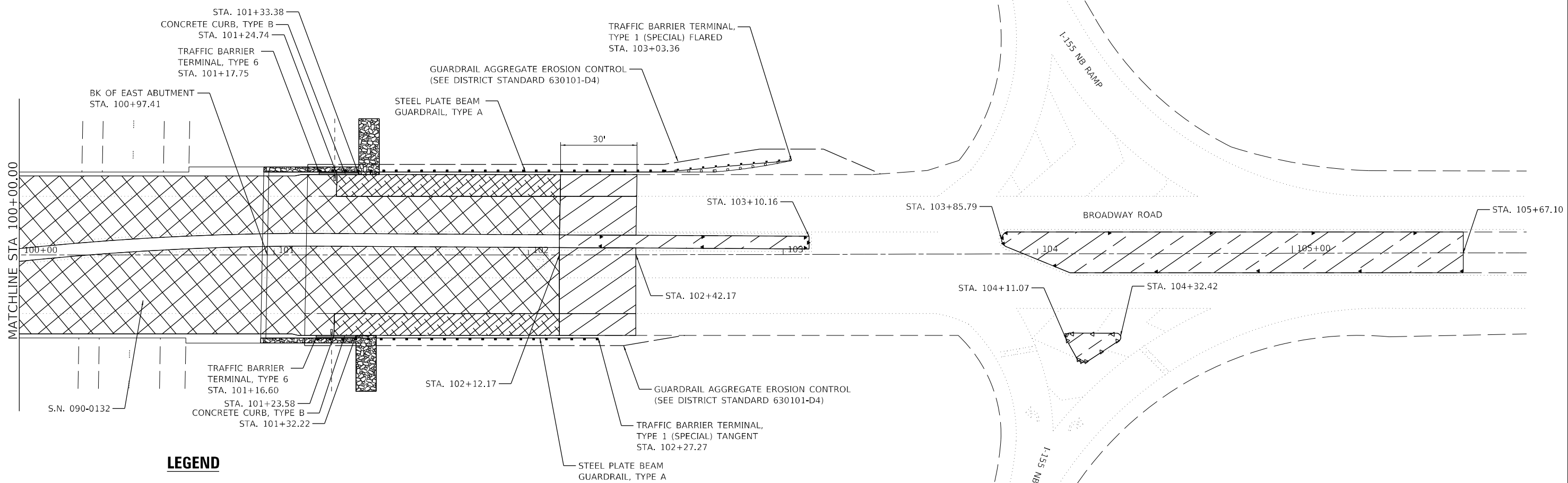
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DRAWN - SMS	REVISOR -	
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**






PLAN			
S.N. 090-0132			
SCALE: 1" = 20'	SHEET 3	OF 9 SHEETS	STA. 94+32.25 TO STA. 100+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	29
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 68H71



LEGEND

-  PROPOSED BRIDGE DECK SCARIFICATION 3/4"
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"
-  HMA PAVEMENT - SEE BUTT JOINT DETAILS
-  HMA SHOULDER, 2 1/2"
-  CONCRETE MEDIAN, TYPE SB-6.06
-  STONE DUMPED RIPRAP - CLASS B3 - SEE DETAIL SHEET

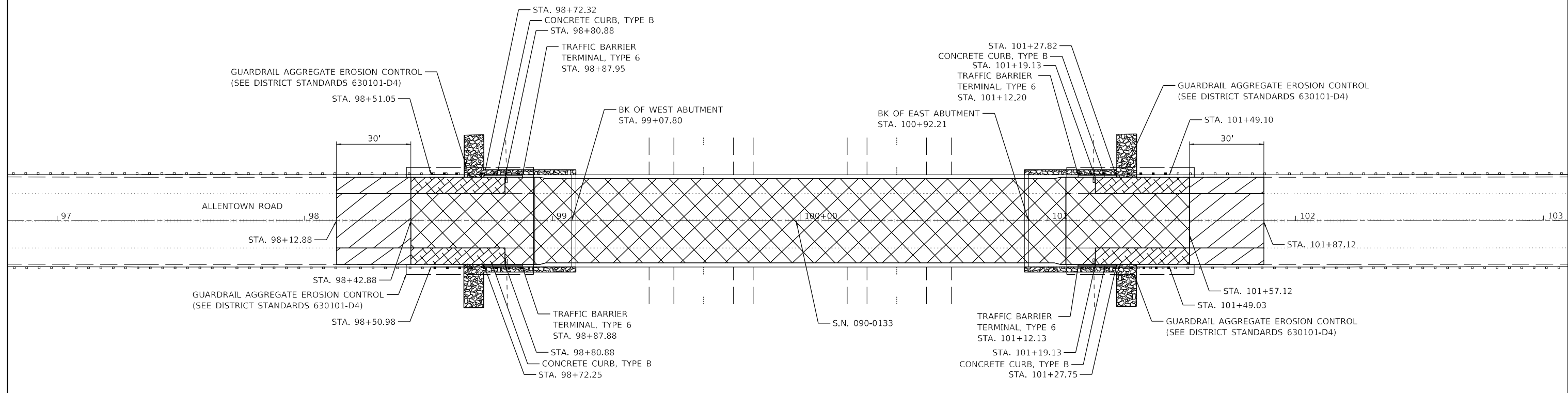
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	DRAWN - SMS	REVISED -
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -






**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN			
S.N. 090-0132			
SCALE: 1" = 20'	SHEET 4	OF 9 SHEETS	STA. 100+00.00 TO STA. 105+67.10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	30
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



LEGEND

-  PROPOSED BRIDGE DECK SCARIFICATION 3/4"
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"
-  HMA PAVEMENT - SEE BUTT JOINT DETAILS
-  HMA SHOULDER, 2 1/2"
-  CONCRETE MEDIAN, TYPE SB-6.06
-  STONE DUMPED RIPRAP - CLASS B3 - SEE DETAIL SHEET

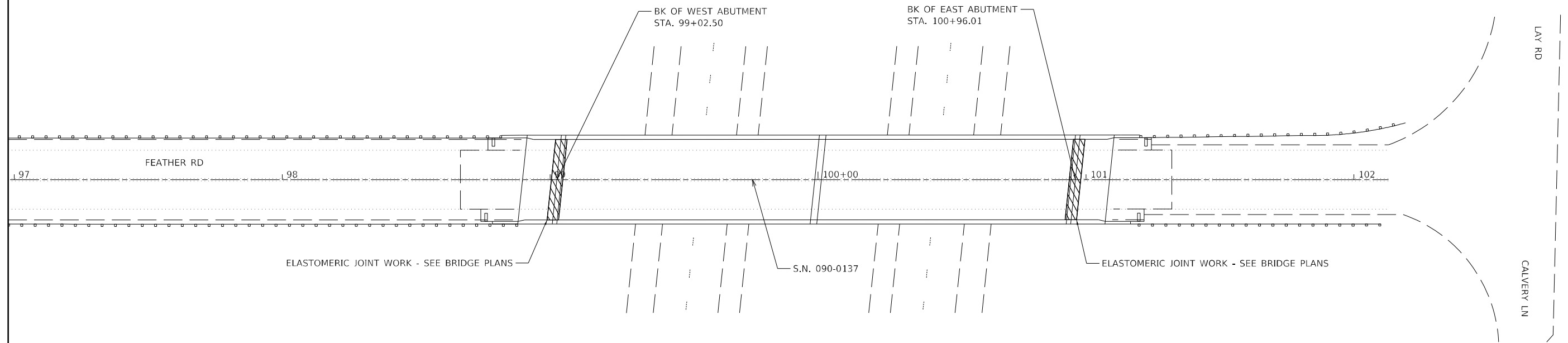
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PLOT DATE = 2/14/2024		






**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN	
S.N. 090-0133	
SCALE: 1" = 20'	SHEET 5 OF 9 SHEETS
STA. 98+12.88	TO STA. 101+87.12

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	31
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



LEGEND

-  PROPOSED BRIDGE DECK SCARIFICATION 3/4"
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"
-  HMA PAVEMENT - SEE BUTT JOINT DETAILS
-  HMA SHOULDER, 2 1/2"
-  CONCRETE MEDIAN, TYPE SB-6.06
-  STONE DUMPED RIPRAP - CLASS B3 - SEE DETAIL SHEET

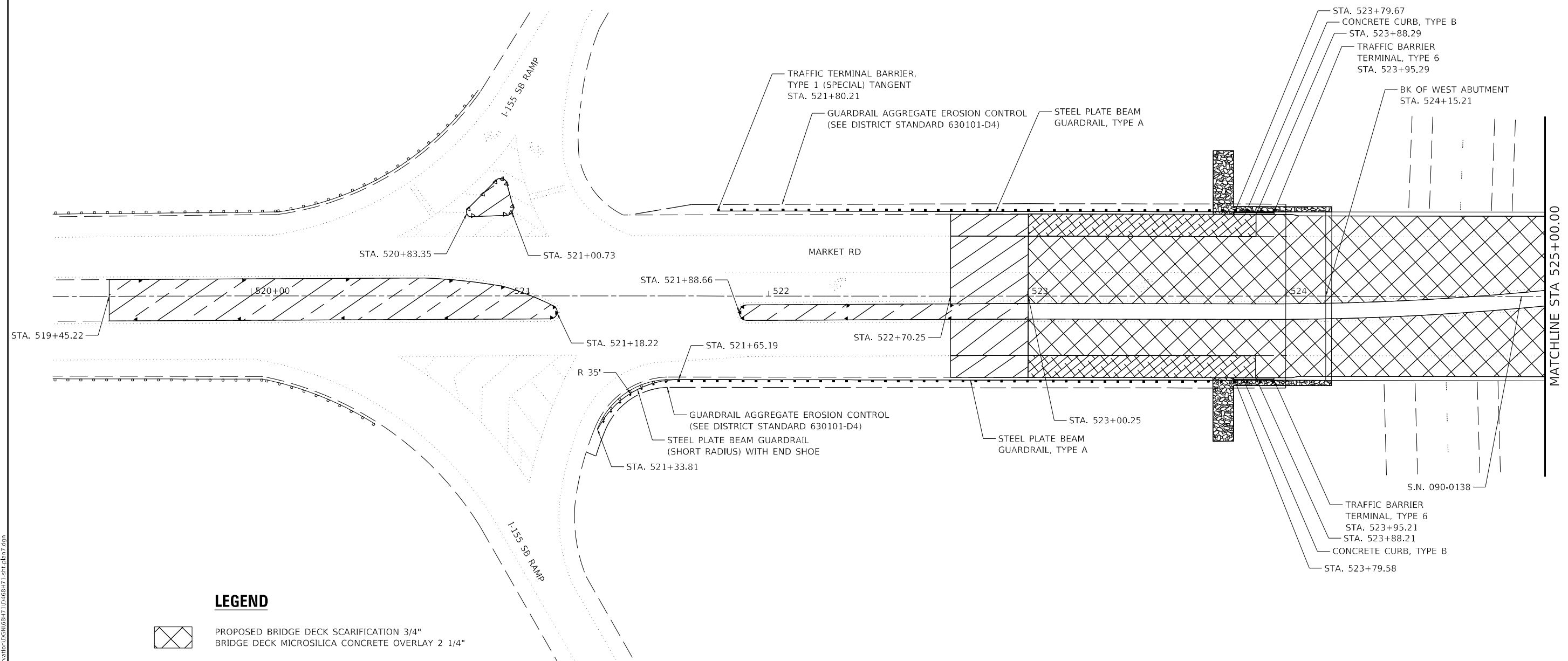
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



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN	
S.N. 090-0137	
SCALE: 1" = 20'	SHEET 6 OF 9 SHEETS
STA. 99+00.50	TO STA. 100+98.01

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	32
			CONTRACT NO. 68H71	
		ILLINOIS FED. AID PROJECT		



LEGEND

-  PROPOSED BRIDGE DECK SCARIFICATION 3/4"
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"
-  HMA PAVEMENT - SEE BUTT JOINT DETAILS
-  HMA SHOULDER, 2 1/2"
-  CONCRETE MEDIAN, TYPE SB-6.06
-  STONE DUMPED RIPRAP - CLASS B3 - SEE DETAIL SHEET

MODEL: D:\p\11...
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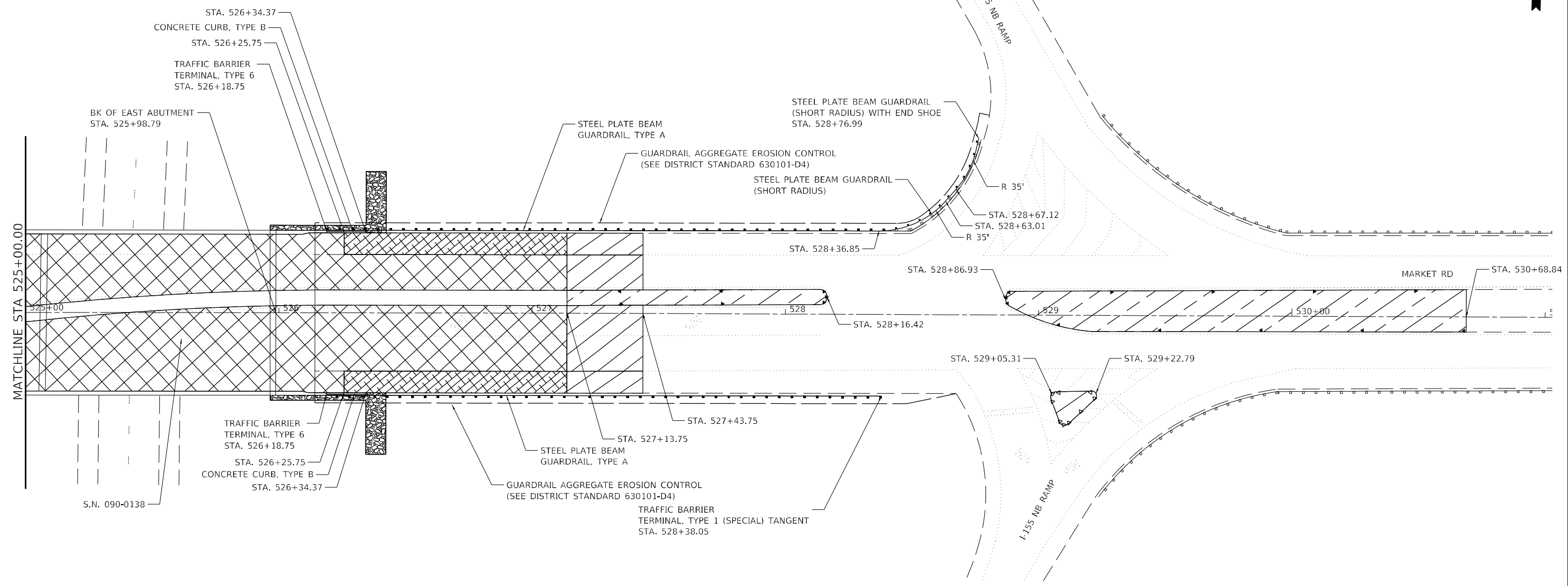
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DRAWN - SMS	REVISIONS -	
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION






PLAN			
S.N. 090-0138			
SCALE: 1" = 20'	SHEET 7	OF 9 SHEETS	STA. 519+45.22 TO STA. 525+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	33
ILLINOIS FED. AID PROJECT				

MATCHLINE STA 525+00.00



LEGEND

-  PROPOSED BRIDGE DECK SCARIFICATION 3/4"
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"
-  HMA PAVEMENT - SEE BUTT JOINT DETAILS
-  HMA SHOULDER, 2 1/2"
-  CONCRETE MEDIAN, TYPE SB-6.06
-  STONE DUMPED RIPRAP - CLASS B3 - SEE DETAIL SHEET

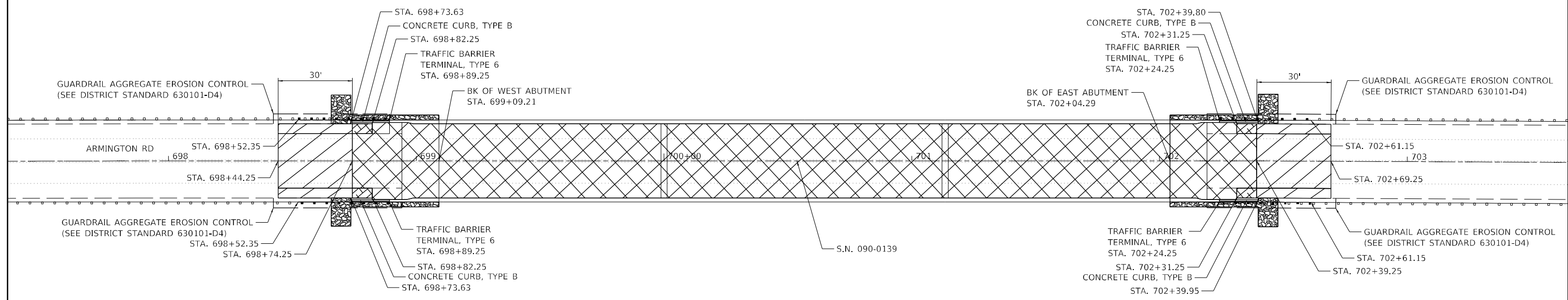
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DRAWN - SMS	REVISIONS -	
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



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN			
S.N. 090-0138			
SCALE: 1" = 20'	SHEET 8	OF 9 SHEETS	STA. 525+00.00 TO STA. 530+68.84

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

-  PROPOSED BRIDGE DECK SCARIFICATION 3/4"
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"
-  HMA PAVEMENT - SEE BUTT JOINT DETAILS
-  HMA SHOULDER, 2 1/2"
-  CONCRETE MEDIAN, TYPE SB-6.06
-  STONE DUMPED RIPRAP - CLASS B3 - SEE DETAIL SHEET

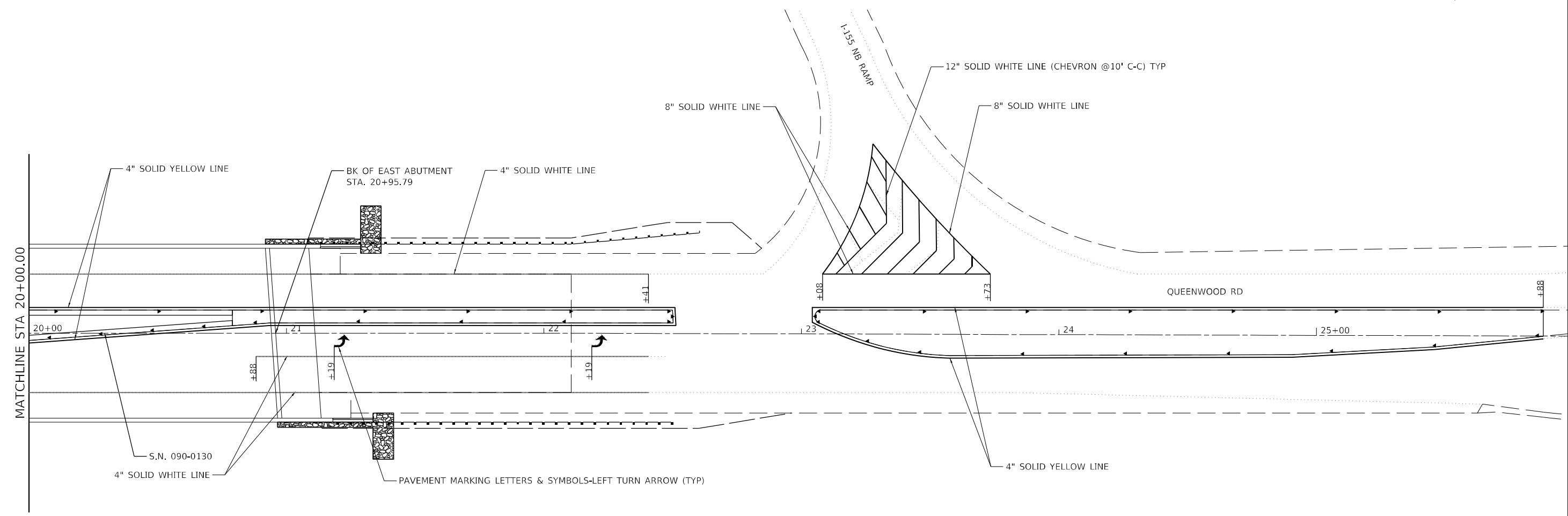
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	DRAWN - SMS	REVISED -
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN	
S.N. 090-0139	
SCALE: 1" = 20'	SHEET 9 OF 9 SHEETS
STA. 698+44.25 TO STA. 702+69.25	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	35
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



LEGEND

- ▶ ONE-WAY CRYSTAL PRISMATIC CURB REFLECTORS
- ▶ ONE-WAY AMBER PRISMATIC CURB REFLECTORS

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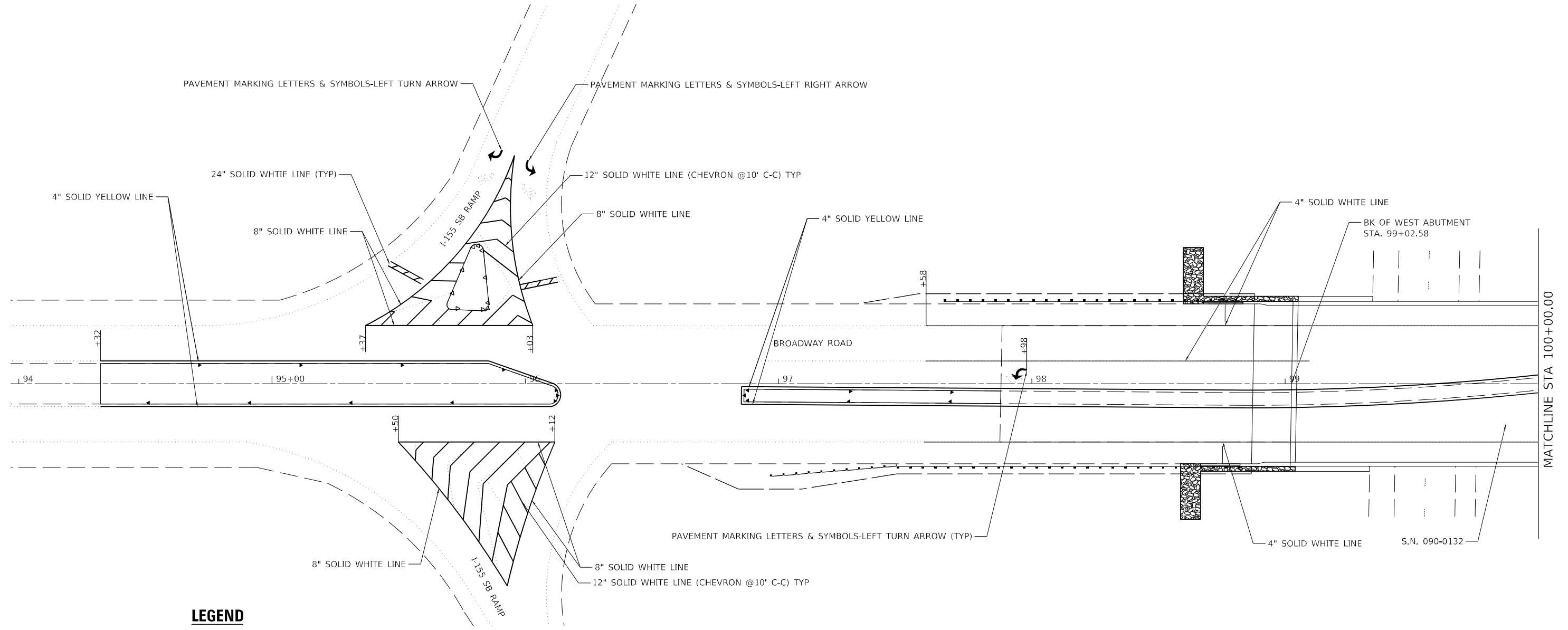
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PLOT SCALE = 40,0000 */ in.	DATE - 02/09/2024	REVISED -
PLOT DATE = 2/14/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
S.N. 090-0130

SCALE: 1" = 20' SHEET 2 OF 8 SHEETS STA. 20+00 TO STA. 25+88

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	37
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



LEGEND

- ▶ ONE-WAY CRYSTAL PRISMATIC CURB REFLECTORS
- ▶ ONE-WAY AMBER PRISMATIC CURB REFLECTORS

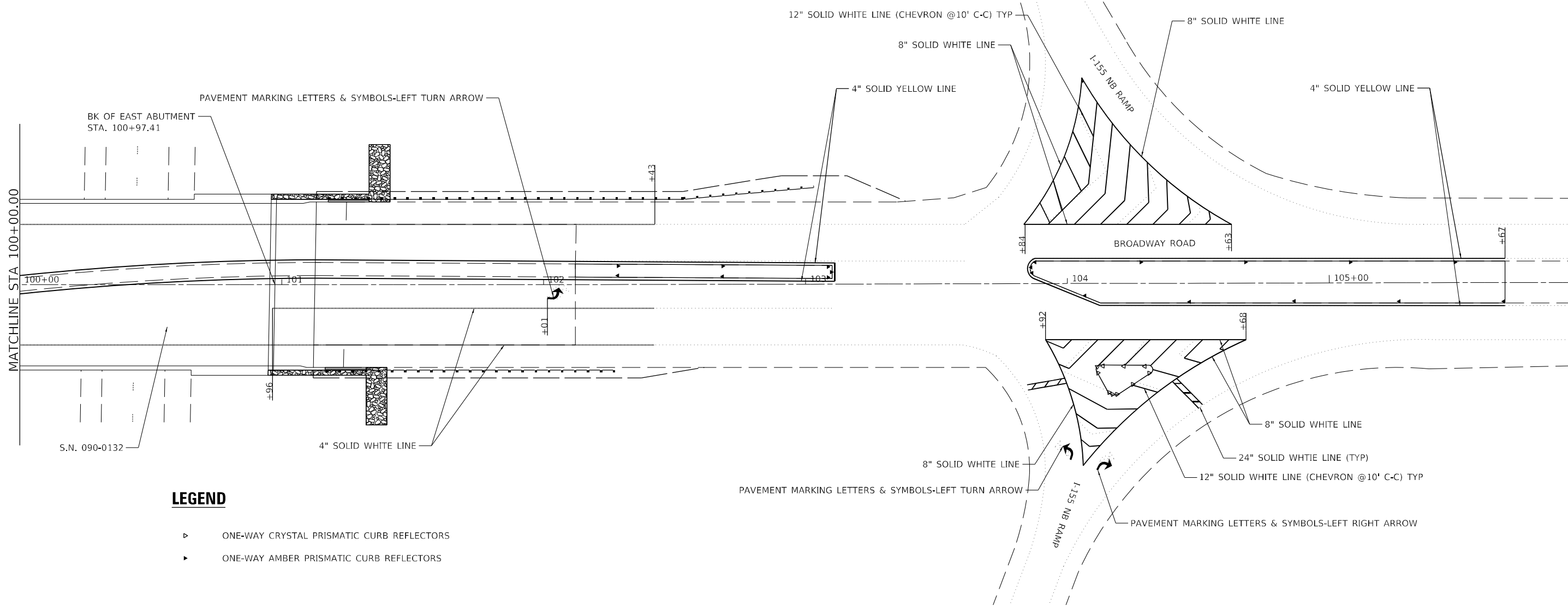
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DRAWN - SMS	REVISIONS -	
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN			
S.N. 090-0132			
SCALE: 1" = 20'	SHEET 3	OF 8 SHEETS	STA. 94+32 TO STA. 100+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	38
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



LEGEND

- ▶ ONE-WAY CRYSTAL PRISMATIC CURB REFLECTORS
- ▶ ONE-WAY AMBER PRISMATIC CURB REFLECTORS

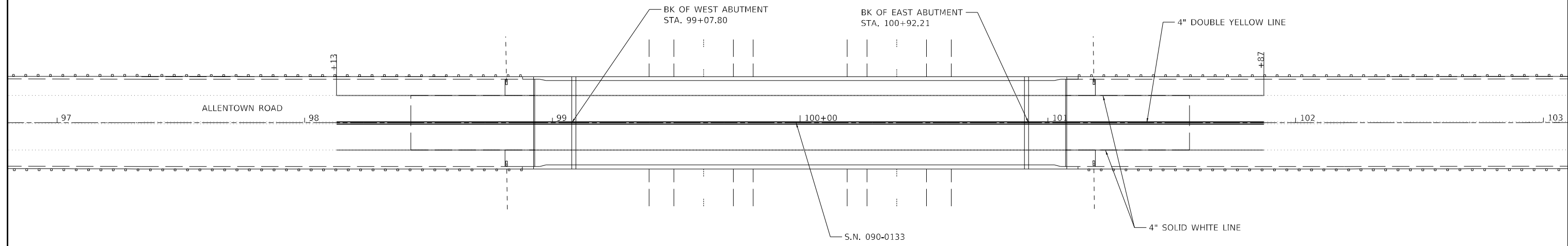
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DRAWN - SMS	REVISIONS	REVISED -
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN S.N. 090-0132			
SCALE: 1" = 20'	SHEET 4	OF 8 SHEETS	STA. 100+00 TO STA. 105+67

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	39
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

- ▶ ONE-WAY CRYSTAL PRISMATIC CURB REFLECTORS
- ▶ ONE-WAY AMBER PRISMATIC CURB REFLECTORS

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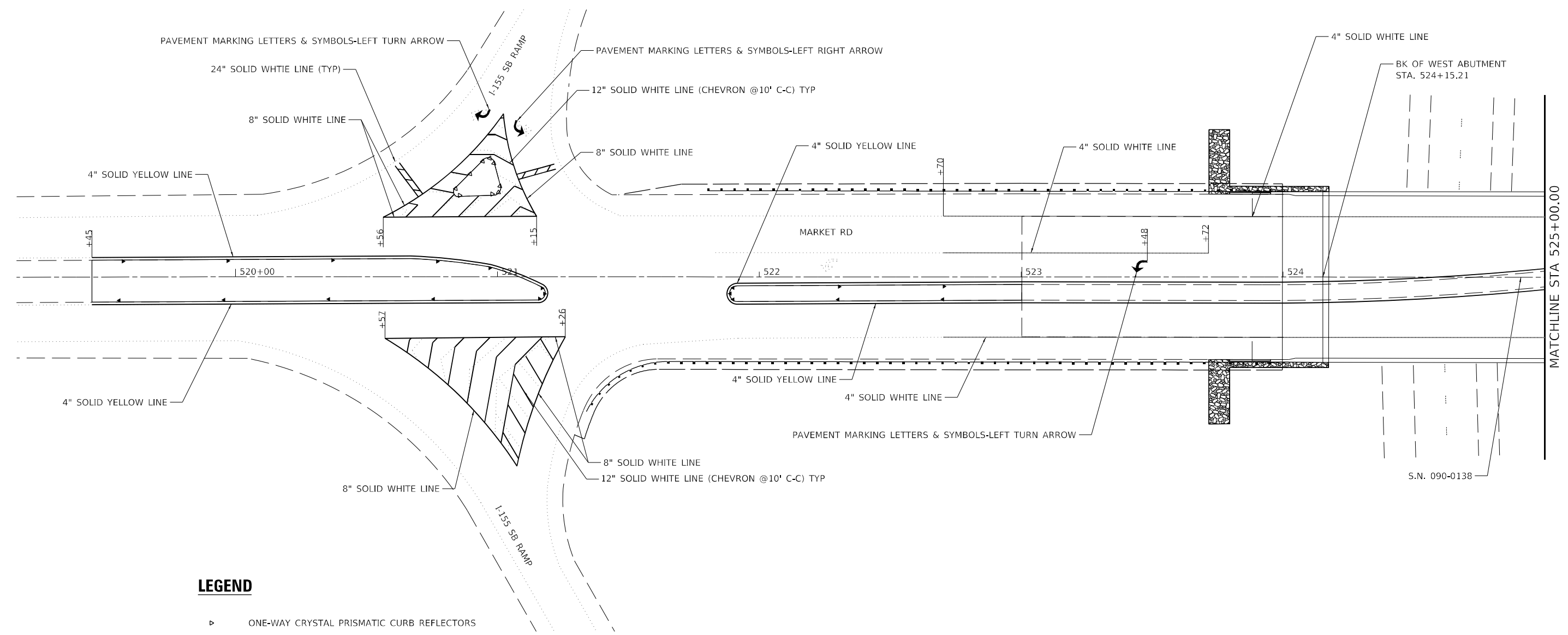
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
S.N. 090-0133

SCALE: 1" = 20' SHEET 5 OF 8 SHEETS STA. 98+13 TO STA. 101+87

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	40
				CONTRACT NO. 68H71
ILLINOIS FED. AID PROJECT				



LEGEND

- ▶ ONE-WAY CRYSTAL PRISMATIC CURB REFLECTORS
- ▶ ONE-WAY AMBER PRISMATIC CURB REFLECTORS

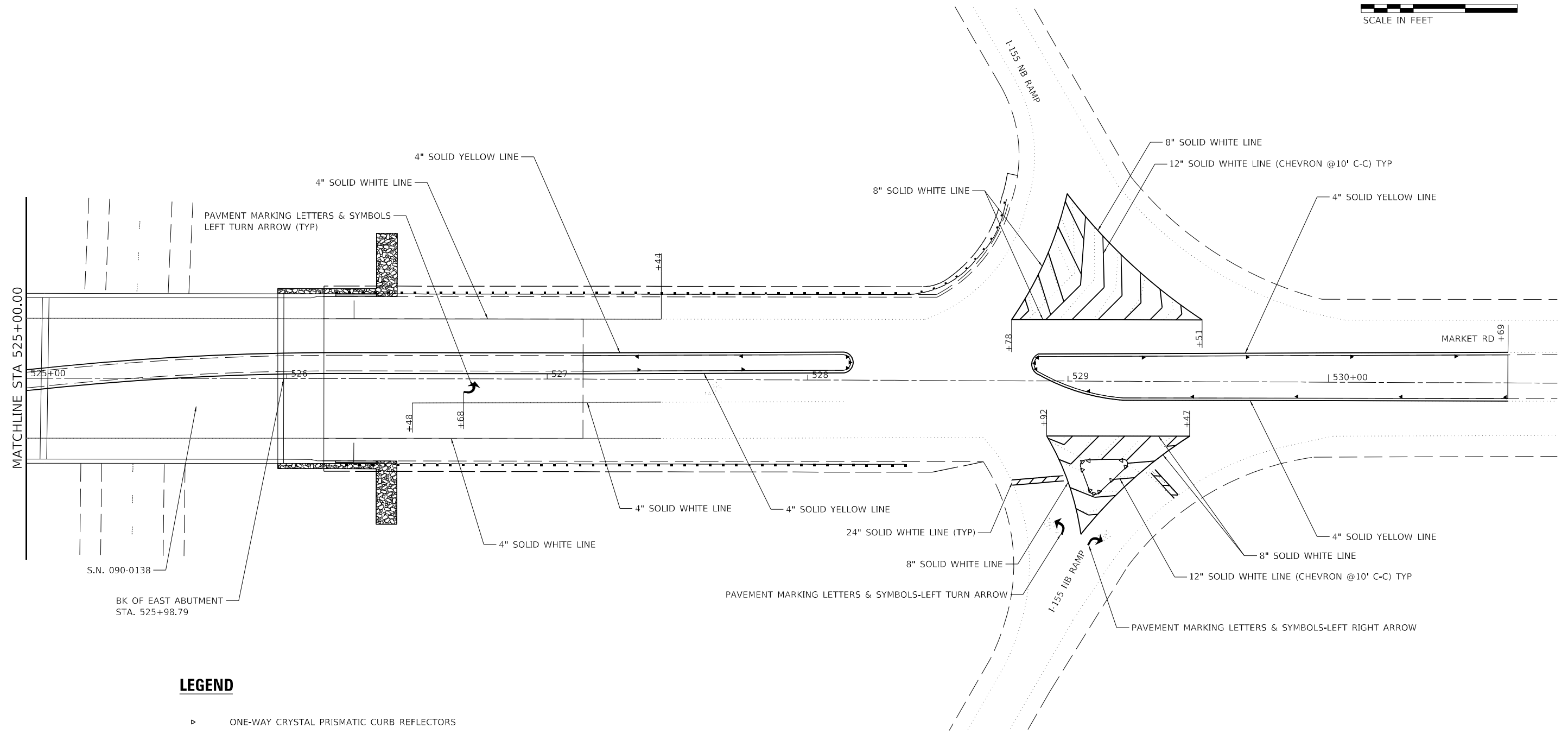
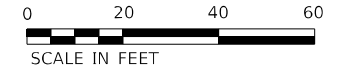
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DRAWN - SMS	REVISIONS	REVISED -
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN S.N. 090-0138			
SCALE: 1" = 20'	SHEET 6	OF 8 SHEETS	STA. 519+45 TO STA. 525+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	41
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

- ▶ ONE-WAY CRYSTAL PRISMATIC CURB REFLECTORS
- ▶ ONE-WAY AMBER PRISMATIC CURB REFLECTORS

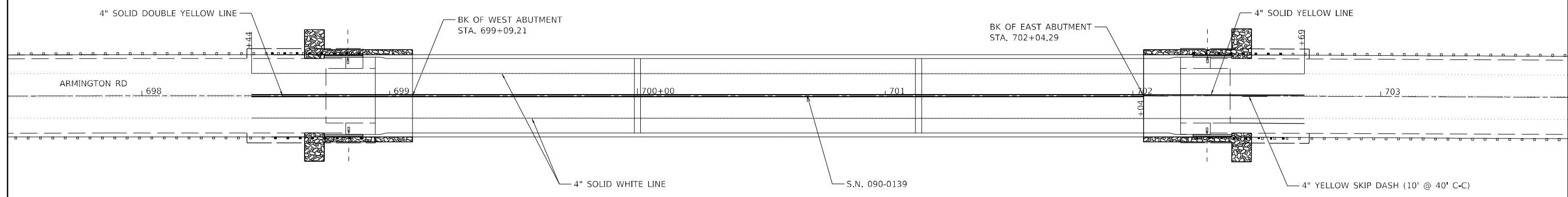
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DRAWN - SMS	REVISIONS -	
PLOT SCALE = 40,0000 * / in.	CHECKED - JJC	REVISIONS -
PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
S.N. 090-0138			
SCALE: 1" = 20'	SHEET 7	OF 8 SHEETS	STA. 525+00 TO STA. 530+69

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	42
				CONTRACT NO. 68H71
ILLINOIS FED. AID PROJECT				



LEGEND

- ▶ ONE-WAY CRYSTAL PRISMATIC CURB REFLECTORS
- ▶ ONE-WAY AMBER PRISMATIC CURB REFLECTORS

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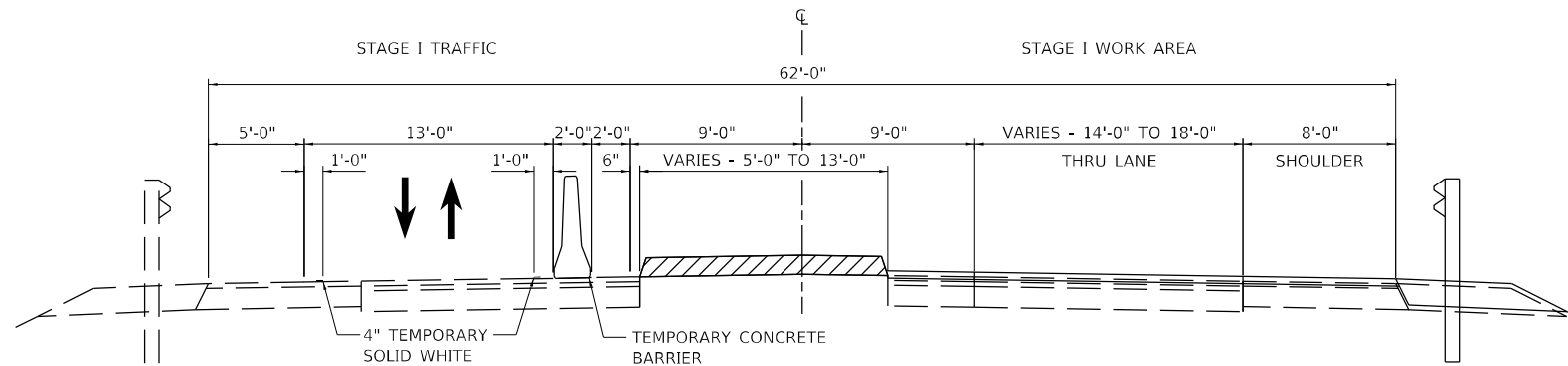
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DRAWN - SMS	CHECKED - JJC	REVISED -
PLOT SCALE = 40,0000 * / in.	DATE - 02/09/2024	REVISED -
PLOT DATE = 2/14/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
S.N. 090-0139

SCALE: 1" = 20' SHEET 8 OF 8 SHEETS STA. 698+44 TO STA. 702+69

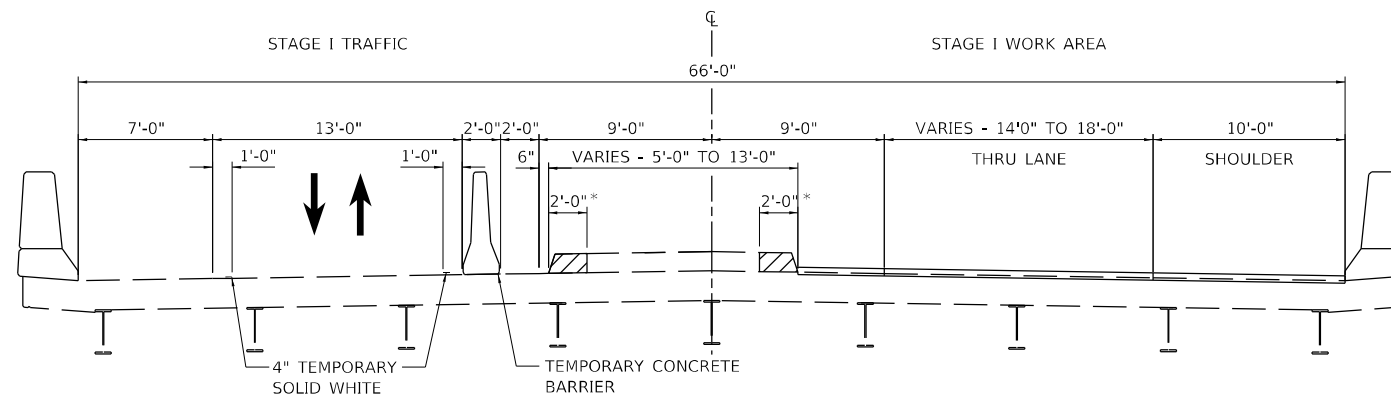
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	43
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



STAGE I TYPICAL SECTION

LOOKING EAST
 STA. 17+59.42 TO STA. 17+89.42
 STA. 22+10.58 TO STA. 22+40.58
 (FOR SHOULDER, MEDIAN, AND GUARDRAIL WORK STATIONING - SEE PLANS)

*MEDIAN REPLACEMENT VARIES IN WIDTH - SEE PLAN FOR DETAILS.



STAGE I TYPICAL SECTION

LOOKING EAST
 S.N. 090-0130

*MEDIAN REPLACEMENT VARIES IN WIDTH - SEE PLAN FOR DETAILS.

STAGE CONSTRUCTION NOTES

PRE-STAGE TRAFFIC
 USE HIGHWAY STANDARD 701201 FOR TRAFFIC CONTROL.
PRE-STAGE CONSTRUCTION
 REMOVE EXISTING MEDIAN & PLACE TEMPORARY PAVEMENT TO LIMITS SHOWN ON PLANS. SEE DETAIL BELOW, SPECIAL PROVISIONS, & MIX DESIGN.

STAGE I TRAFFIC
 CLOSE EASTBOUND LANE TRANSITIONING EASTBOUND AND WESTBOUND TRAFFIC INTO THE WESTBOUND LANE AND SHOULDER USING HIGHWAY STANDARD 701321 (SPECIAL) AND AS DETAILED IN THE STAGING TYPICAL AND TRAFFIC STAGING PLANS.

STAGE I CONSTRUCTION
 MILL PAVEMENT, SHOULDERS, BRIDGE DECK, AND APPROACH SLAB. REMOVE PIPE CULVERT, CURB, AND FRAME AND GRATES (SPECIAL) AND CONSTRUCT RIPRAP SWALE PER PROPOSED RIPRAP DETAIL. RESURFACE EASTBOUND PAVEMENT AND SHOULDERS, REMOVE AND REPLACE MEDIAN AND GUARDRAIL AS SHOWN ON PLANS. COMPLETE STRUCTURE REPAIRS AS DETAILED IN THE BRIDGE PLANS.

STAGE II TRAFFIC
 CLOSE WESTBOUND LANE TRANSITIONING EASTBOUND AND WESTBOUND TRAFFIC INTO THE EASTBOUND LANE AND SHOULDER USING HIGHWAY STANDARD 701321 (SPECIAL) AND AS DETAILED IN THE STAGING TYPICAL AND TRAFFIC STAGING PLANS.

STAGE II CONSTRUCTION
 MILL PAVEMENT, SHOULDERS, BRIDGE DECK, AND APPROACH SLAB. REMOVE PIPE CULVERT, CURB, AND FRAME AND GRATES (SPECIAL) AND CONSTRUCT RIPRAP SWALE PER PROPOSED RIPRAP DETAIL. RESURFACE WESTBOUND PAVEMENT AND SHOULDERS, REMOVE AND REPLACE MEDIAN AND GUARDRAIL AS SHOWN ON PLANS. COMPLETE STRUCTURE REPAIRS AS DETAILED IN THE BRIDGE PLANS.

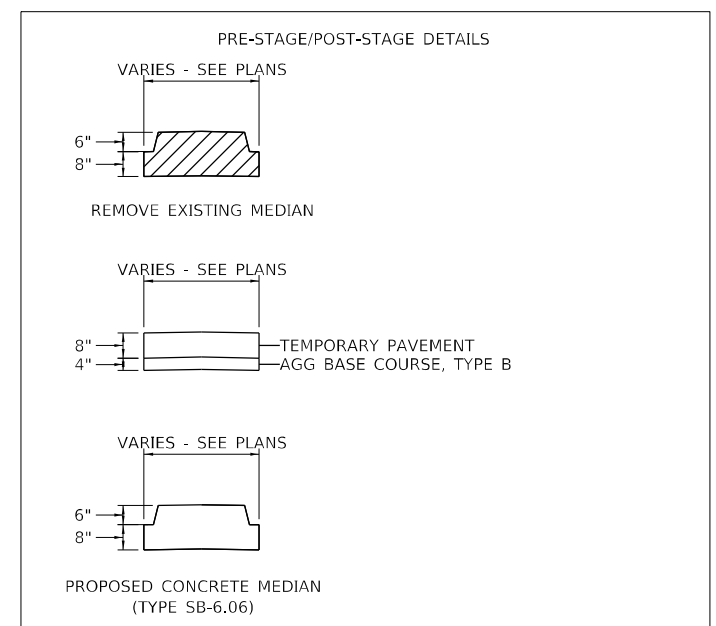
POST-STAGE TRAFFIC
 USE HIGHWAY STANDARD 701201 FOR TRAFFIC CONTROL.
POST-STAGE CONSTRUCTION
 REMOVE TEMPORARY PAVEMENT. CONSTRUCT CONCRETE MEDIAN TYPE SB-6.06. SEE DETAIL BELOW. SEE HIGHWAY STANDARD 606301.

ADDITIONAL STAGING NOTES
 FOR PROTECTIVE SHIELD (PERMANENT) WORK, HIGHWAY STANDARDS 701400, 701402, AND 701411 SHALL BE USED ON I-155.

CONDUCT WORKSITE CLEANUP AND PLACE FINAL PAVEMENT MARKINGS USING HIGHWAY STANDARD 701311 FOR TRAFFIC CONTROL.

IN THE CASE THE PERMANENT FINAL PAVEMENT MARKING CANNOT BE PLACED, A QUANTITY OF TEMPORARY PAVEMENT MARKING IN THE QUANTITY OF THE PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE CONTRACT.

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



MODEL: Default
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HR
 HURST-ROSCHKE, INC.
 HILLSBORO, ILLINOIS 62049
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 HR # 192-2330
 www.hurst-roschke.com

USER NAME = ssoto	DESIGNED - KYH	REVISED -
PLOT SCALE = 10,0000 * / in.	DRAWN - KYH	REVISED -
PLOT DATE = 2/14/2024	CHECKED - JJC	REVISED -
	DATE - 02/09/2024	REVISED -

DESIGNED - KYH	REVISED -
DRAWN - KYH	REVISED -
CHECKED - JJC	REVISED -
DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGING TYPICAL SECTIONS
 S.N. 090-0130**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	

STAGE CONSTRUCTION NOTES

PRE-STAGE TRAFFIC
USE HIGHWAY STANDARD 701201 FOR TRAFFIC CONTROL.

PRE-STAGE CONSTRUCTION
REMOVE EXISTING MEDIAN & PLACE TEMPORARY PAVEMENT TO LIMITS SHOWN ON PLANS. SEE DETAIL BELOW, SPECIAL PROVISIONS, & MIX DESIGN.

STAGE I TRAFFIC
CLOSE EASTBOUND LANE TRANSITIONING EASTBOUND AND WESTBOUND TRAFFIC INTO THE WESTBOUND LANE AND SHOULDER USING HIGHWAY STANDARD 701321 (SPECIAL) AND AS DETAILED IN THE STAGING TYPICAL AND TRAFFIC STAGING PLANS.

STAGE I CONSTRUCTION
MILL PAVEMENT, SHOULDERS, BRIDGE DECK, AND APPROACH SLAB. REMOVE PIPE CULVERT, CURB, AND FRAME AND GRATES (SPECIAL) AND CONSTRUCT RIPRAP SWALE PER PROPOSED RIPRAP DETAIL. RESURFACE EASTBOUND PAVEMENT AND SHOULDERS, REMOVE AND REPLACE MEDIAN AND GUARDRAIL AS SHOWN ON PLANS. COMPLETE STRUCTURE REPAIRS AS DETAILED IN THE BRIDGE PLANS.

STAGE II TRAFFIC
CLOSE WESTBOUND LANE TRANSITIONING EASTBOUND AND WESTBOUND TRAFFIC INTO THE EASTBOUND LANE AND SHOULDER USING HIGHWAY STANDARD 701321 (SPECIAL) AND AS DETAILED IN THE STAGING TYPICAL AND TRAFFIC STAGING PLANS.

STAGE II CONSTRUCTION
MILL PAVEMENT, SHOULDERS, BRIDGE DECK, AND APPROACH SLAB. REMOVE PIPE CULVERT, CURB, AND FRAME AND GRATES (SPECIAL) AND CONSTRUCT RIPRAP SWALE PER PROPOSED RIPRAP DETAIL. RESURFACE WESTBOUND PAVEMENT AND SHOULDERS, REMOVE AND REPLACE MEDIAN AND GUARDRAIL AS SHOWN ON PLANS. COMPLETE STRUCTURE REPAIRS AS DETAILED IN THE BRIDGE PLANS.

POST-STAGE TRAFFIC
USE HIGHWAY STANDARD 701201 FOR TRAFFIC CONTROL.

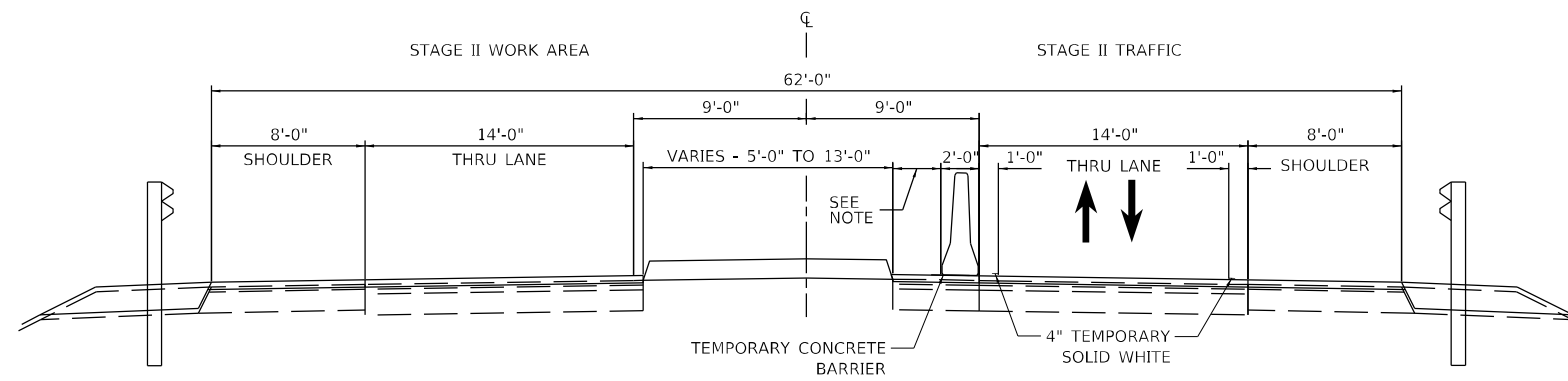
POST-STAGE CONSTRUCTION
REMOVE TEMPORARY PAVEMENT. CONSTRUCT CONCRETE MEDIAN TYPE SB-6.06. SEE DETAIL BELOW. SEE HIGHWAY STANDARD 606301.

ADDITIONAL STAGING NOTES
FOR PROTECTIVE SHIELD (PERMANENT) WORK, HIGHWAY STANDARDS 701400, 701402, AND 701411 SHALL BE USED ON I-155.

CONDUCT WORKSITE CLEANUP AND PLACE FINAL PAVEMENT MARKINGS USING HIGHWAY STANDARD 701311 FOR TRAFFIC CONTROL.

IN THE CASE THE PERMANENT FINAL PAVEMENT MARKING CANNOT BE PLACED, A QUANTITY OF TEMPORARY PAVEMENT MARKING IN THE QUANTITY OF THE PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE CONTRACT.

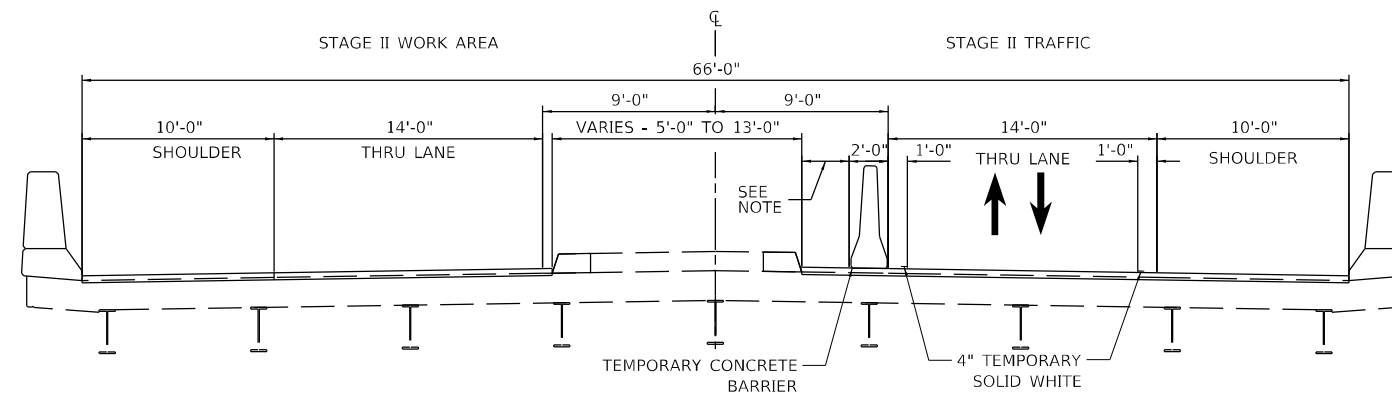
STAGING DETAILS ARE SUBJECT TO CHANGE DUE TO EXISTING FIELD CONDITIONS.



STAGE II TYPICAL SECTION

LOOKING EAST
STA. 17+59.42 TO STA. 17+89.42
STA. 22+10.58 TO STA. 22+40.58
(FOR SHOULDER, MEDIAN, AND GUARDRAIL WORK STATIONING - SEE PLANS)

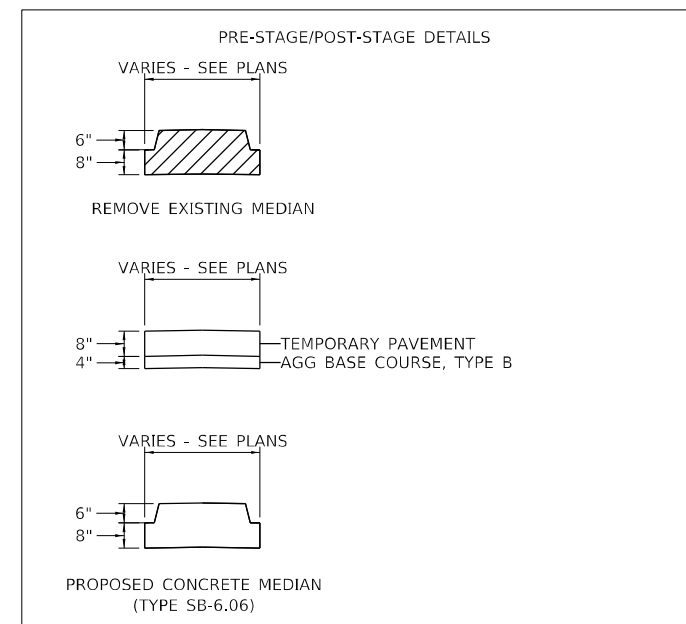
NOTE: DISTANCE BETWEEN TEMPORARY CONCRETE BARRIER AND MEDIAN VARIES.



STAGE II TYPICAL SECTION

LOOKING EAST
S.N. 090-0130

NOTE: DISTANCE BETWEEN TEMPORARY CONCRETE BARRIER AND MEDIAN VARIES.



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HR # 192-2330
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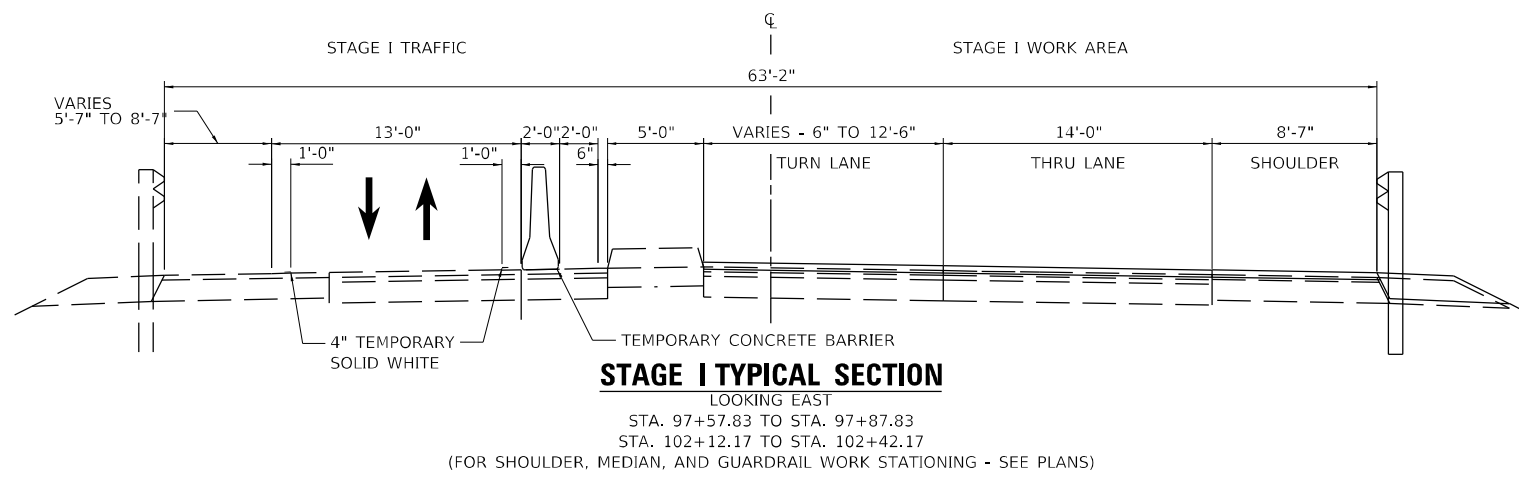
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING TYPICAL SECTIONS
S.N. 090-0130**

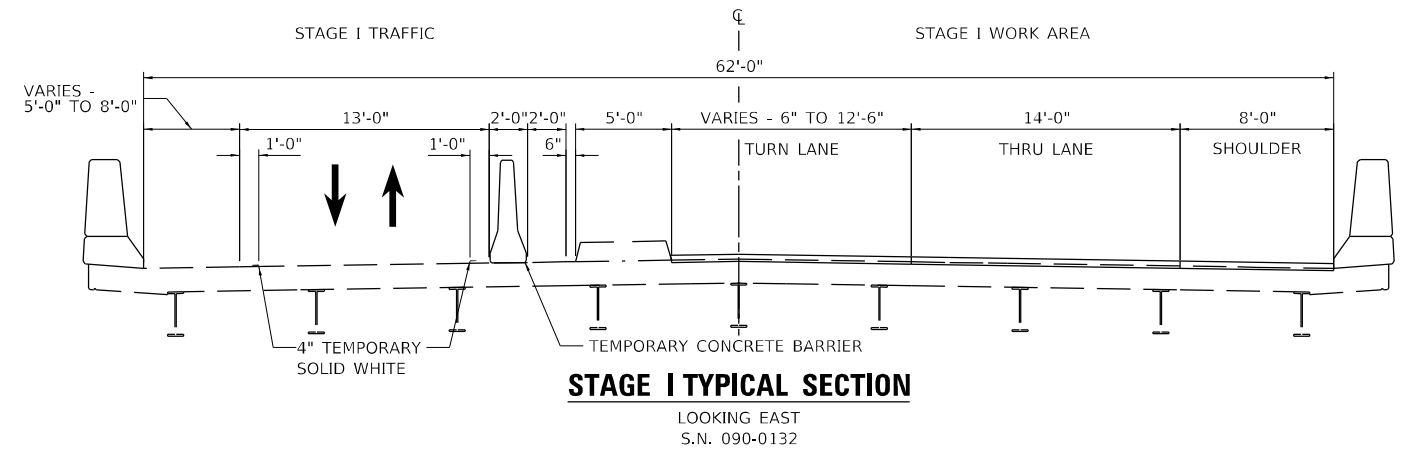
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 68H71
ILLINOIS FED. AID PROJECT				



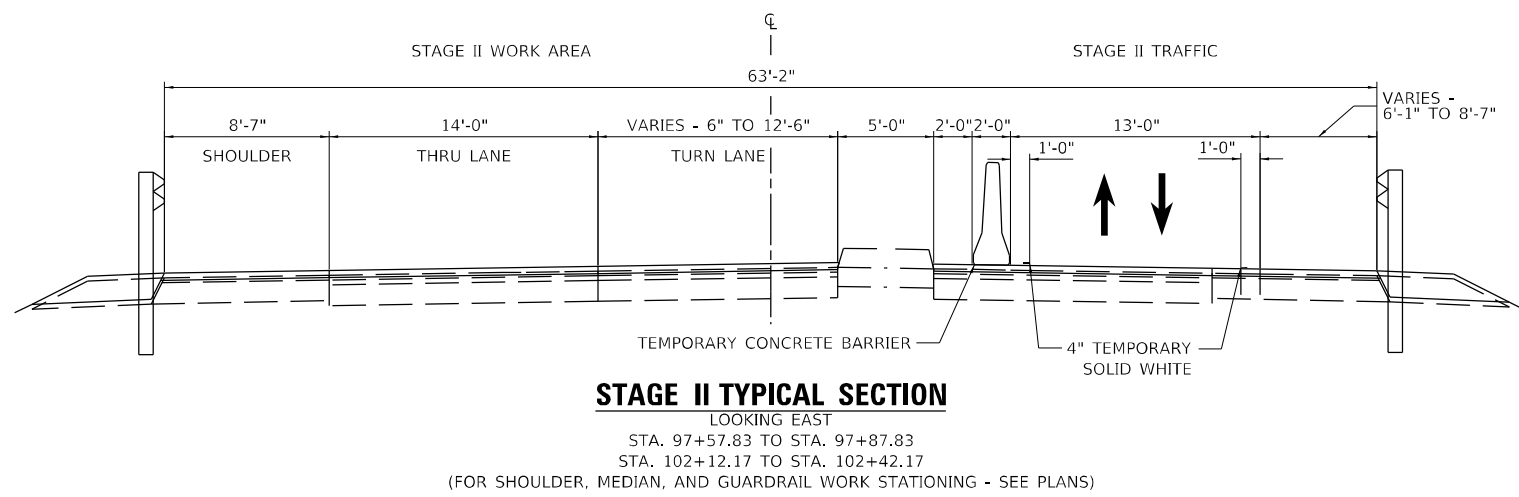
STAGE I TYPICAL SECTION

LOOKING EAST
 STA. 97+57.83 TO STA. 97+87.83
 STA. 102+12.17 TO STA. 102+42.17
 (FOR SHOULDER, MEDIAN, AND GUARDRAIL WORK STATIONING - SEE PLANS)



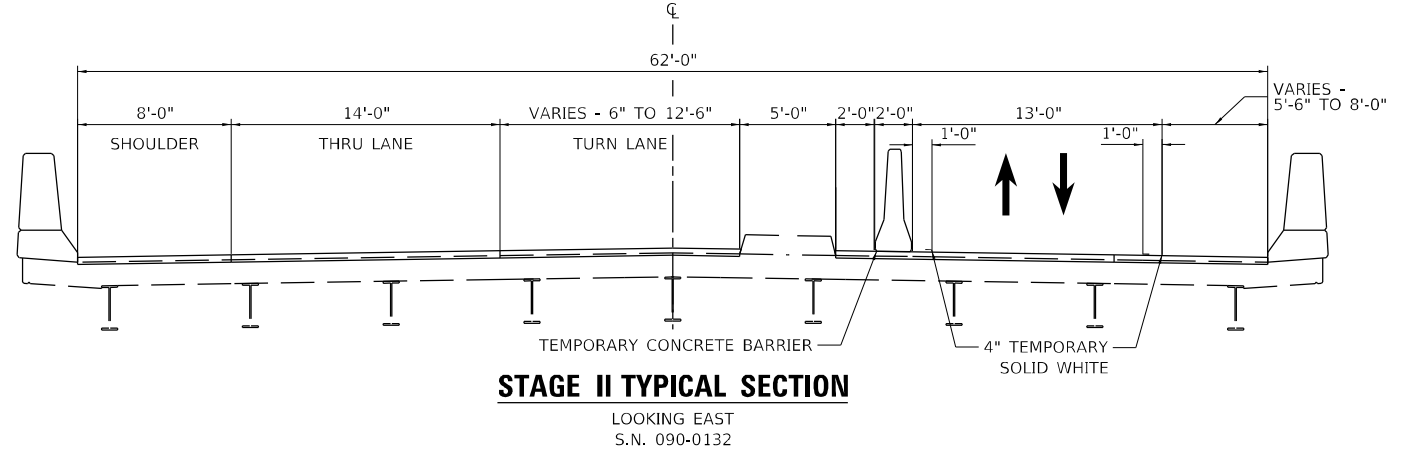
STAGE I TYPICAL SECTION

LOOKING EAST
 S.N. 090-0132



STAGE II TYPICAL SECTION

LOOKING EAST
 STA. 97+57.83 TO STA. 97+87.83
 STA. 102+12.17 TO STA. 102+42.17
 (FOR SHOULDER, MEDIAN, AND GUARDRAIL WORK STATIONING - SEE PLANS)



STAGE II TYPICAL SECTION

LOOKING EAST
 S.N. 090-0132

STAGE CONSTRUCTION NOTES

PRE-STAGE TRAFFIC
 USE HIGHWAY STANDARD 701201 FOR TRAFFIC CONTROL.

PRE-STAGE CONSTRUCTION
 REMOVE EXISTING MEDIAN & PLACE TEMPORARY PAVEMENT TO LIMITS SHOWN ON PLANS. SEE DETAIL BELOW, SPECIAL PROVISIONS, & MIX DESIGN.

STAGE I TRAFFIC
 CLOSE EASTBOUND LANE TRANSITIONING EASTBOUND AND WESTBOUND TRAFFIC INTO THE WESTBOUND LANE AND SHOULDER USING HIGHWAY STANDARD 701321 (SPECIAL) AND AS DETAILED IN THE STAGING TYPICAL AND TRAFFIC STAGING PLANS.

STAGE I CONSTRUCTION
 MILL PAVEMENT, SHOULDERS, BRIDGE DECK, AND APPROACH SLAB. REMOVE PIPE CULVERT, CURB, AND FRAME AND GRATES (SPECIAL) AND CONSTRUCT RIPRAP SWALE PER PROPOSED RIPRAP DETAIL. RESURFACE EASTBOUND PAVEMENT AND SHOULDERS, REMOVE AND REPLACE MEDIAN AND GUARDRAIL AS SHOWN ON PLANS. COMPLETE STRUCTURE REPAIRS AS DETAILED IN THE BRIDGE PLANS.

STAGE II TRAFFIC
 CLOSE WESTBOUND LANE TRANSITIONING EASTBOUND AND WESTBOUND TRAFFIC INTO THE EASTBOUND LANE AND SHOULDER USING HIGHWAY STANDARD 701321 (SPECIAL) AND AS DETAILED IN THE STAGING TYPICAL AND TRAFFIC STAGING PLANS.

STAGE II CONSTRUCTION
 MILL PAVEMENT, SHOULDERS, BRIDGE DECK, AND APPROACH SLAB. REMOVE PIPE CULVERT, CURB, AND FRAME AND GRATES (SPECIAL) AND CONSTRUCT RIPRAP SWALE PER PROPOSED RIPRAP DETAIL. RESURFACE WESTBOUND PAVEMENT AND SHOULDERS, REMOVE AND REPLACE MEDIAN AND GUARDRAIL AS SHOWN ON PLANS. COMPLETE STRUCTURE REPAIRS AS DETAILED IN THE BRIDGE PLANS.

POST-STAGE TRAFFIC
 USE HIGHWAY STANDARD 701201 FOR TRAFFIC CONTROL.

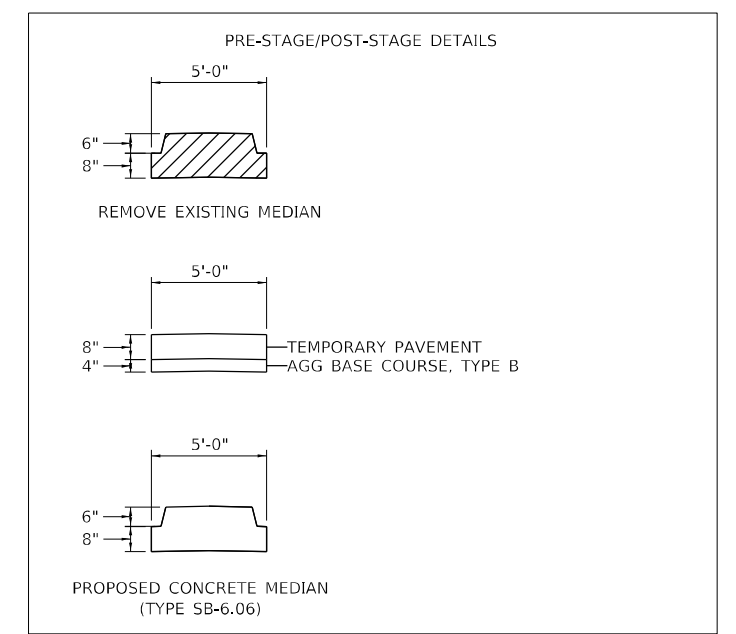
POST-STAGE CONSTRUCTION
 REMOVE TEMPORARY PAVEMENT. CONSTRUCT CONCRETE MEDIAN TYPE SB-6.06. SEE DETAIL BELOW. SEE HIGHWAY STANDARD 606301.

ADDITIONAL STAGING NOTES
 FOR PROTECTIVE SHIELD (PERMANENT) WORK, HIGHWAY STANDARDS 701400, 701402, AND 701411 SHALL BE USED ON I-155.

CONDUCT WORKSITE CLEANUP AND PLACE FINAL PAVEMENT MARKINGS USING HIGHWAY STANDARD 701311 FOR TRAFFIC CONTROL.

IN THE CASE THE PERMANENT FINAL PAVEMENT MARKING CANNOT BE PLACED, A QUANTITY OF TEMPORARY PAVEMENT MARKING IN THE QUANTITY OF THE PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE CONTRACT.

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



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 DATE: 2/14/2024

HR
 HURST-ROSCHKE, INC.
 HILLSBORO, ILLINOIS 62049
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 HR # 192-2330
 www.hurst-roschke.com

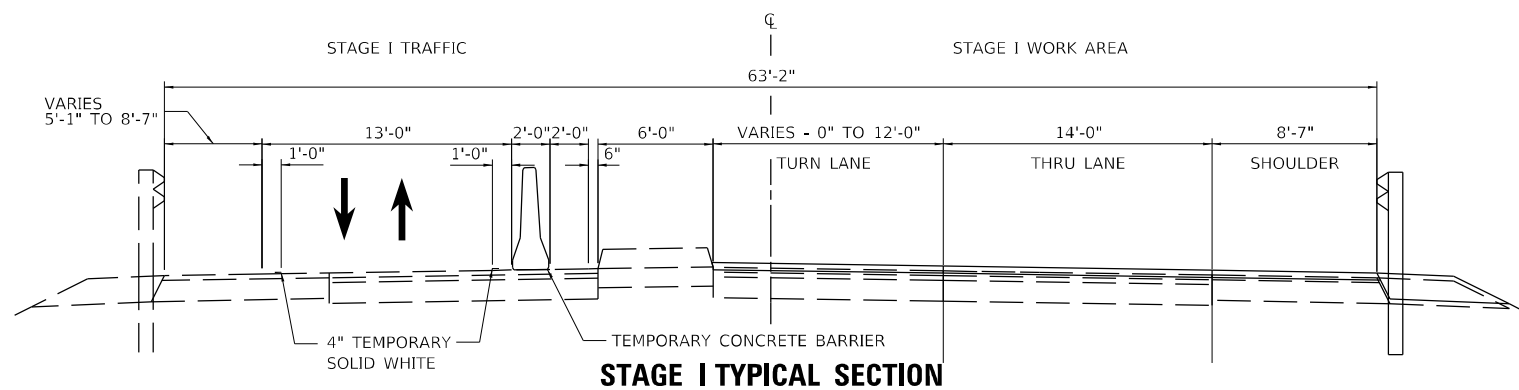
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICAL SECTIONS
S.N. 090-0132

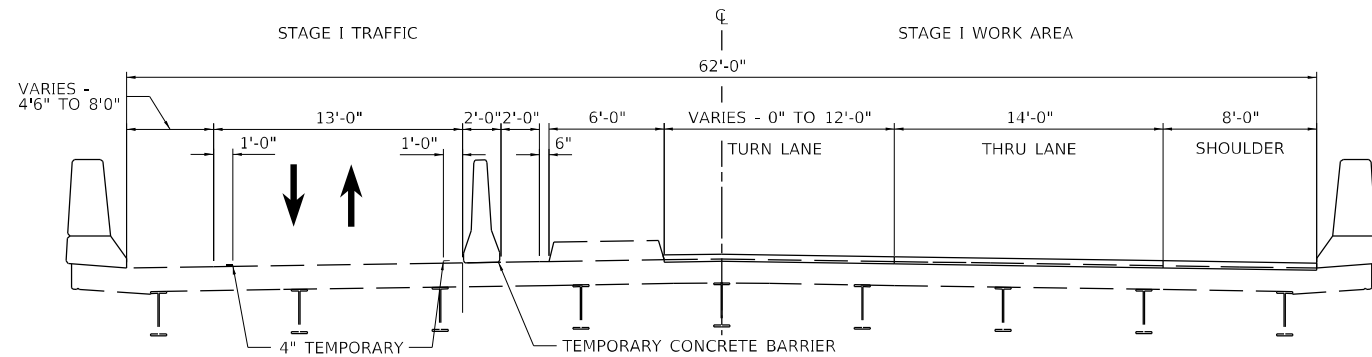
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 68H71
ILLINOIS FED. AID PROJECT				



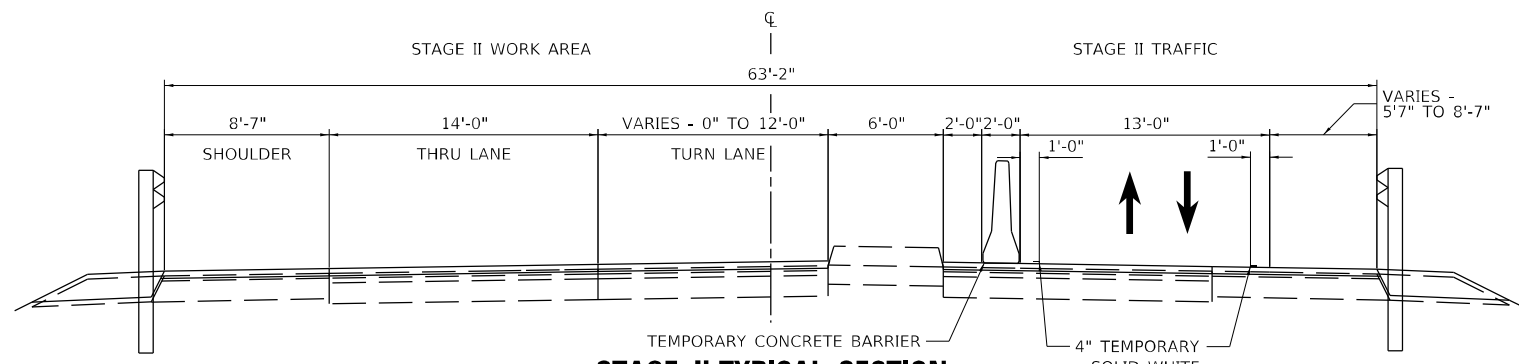
STAGE I TYPICAL SECTION

LOOKING EAST
 STA. 522+70.25 TO STA. 523+00.25
 STA. 527+13.75 TO STA. 527+43.75
 (FOR SHOULDER, MEDIAN, AND GUARDRAIL WORK STATIONING - SEE PLANS)



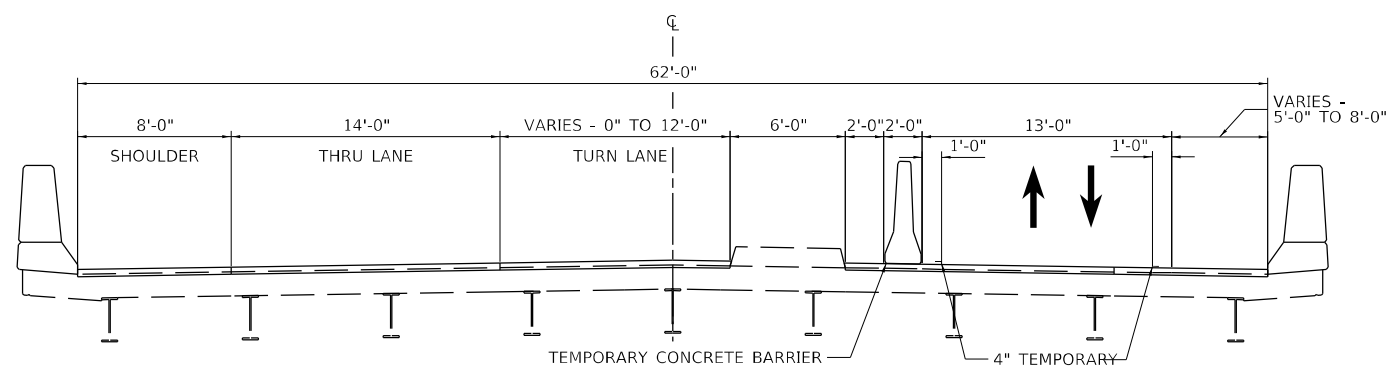
STAGE I TYPICAL SECTION

LOOKING EAST
 S.N. 090-0138



STAGE II TYPICAL SECTION

LOOKING EAST
 STA. 522+70.25 TO STA. 523+00.25
 STA. 527+13.75 TO STA. 527+43.75
 (FOR SHOULDER, MEDIAN, AND GUARDRAIL WORK STATIONING - SEE PLANS)



STAGE II TYPICAL SECTION

LOOKING EAST
 S.N. 090-0138

STAGE CONSTRUCTION NOTES

PRE-STAGE TRAFFIC
 USE HIGHWAY STANDARD 701201 FOR TRAFFIC CONTROL.

PRE-STAGE CONSTRUCTION
 REMOVE EXISTING MEDIAN & PLACE TEMPORARY PAVEMENT TO LIMITS SHOWN ON PLANS. SEE DETAIL BELOW, SPECIAL PROVISIONS, & MIX DESIGN.

STAGE I TRAFFIC
 CLOSE EASTBOUND LANE TRANSITIONING EASTBOUND AND WESTBOUND TRAFFIC INTO THE WESTBOUND LANE AND SHOULDER USING HIGHWAY STANDARD 701321 (SPECIAL) AND AS DETAILED IN THE STAGING TYPICAL AND TRAFFIC STAGING PLANS.

STAGE I CONSTRUCTION
 MILL PAVEMENT, SHOULDERS, BRIDGE DECK, AND APPROACH SLAB. REMOVE PIPE CULVERT, CURB, AND FRAME AND GRATES (SPECIAL) AND CONSTRUCT RIPRAP SWALE PER PROPOSED RIPRAP DETAIL. RESURFACE EASTBOUND PAVEMENT AND SHOULDERS, REMOVE AND REPLACE MEDIAN AND GUARDRAIL AS SHOWN ON PLANS. COMPLETE STRUCTURE REPAIRS AS DETAILED IN THE BRIDGE PLANS.

STAGE II TRAFFIC
 CLOSE WESTBOUND LANE TRANSITIONING EASTBOUND AND WESTBOUND TRAFFIC INTO THE EASTBOUND LANE AND SHOULDER USING HIGHWAY STANDARD 701321 (SPECIAL) AND AS DETAILED IN THE STAGING TYPICAL AND TRAFFIC STAGING PLANS.

STAGE II CONSTRUCTION
 MILL PAVEMENT, SHOULDERS, BRIDGE DECK, AND APPROACH SLAB. REMOVE PIPE CULVERT, CURB, AND FRAME AND GRATES (SPECIAL) AND CONSTRUCT RIPRAP SWALE PER PROPOSED RIPRAP DETAIL. RESURFACE WESTBOUND PAVEMENT AND SHOULDERS, REMOVE AND REPLACE MEDIAN AND GUARDRAIL AS SHOWN ON PLANS. COMPLETE STRUCTURE REPAIRS AS DETAILED IN THE BRIDGE PLANS.

POST-STAGE TRAFFIC
 USE HIGHWAY STANDARD 701201 FOR TRAFFIC CONTROL.

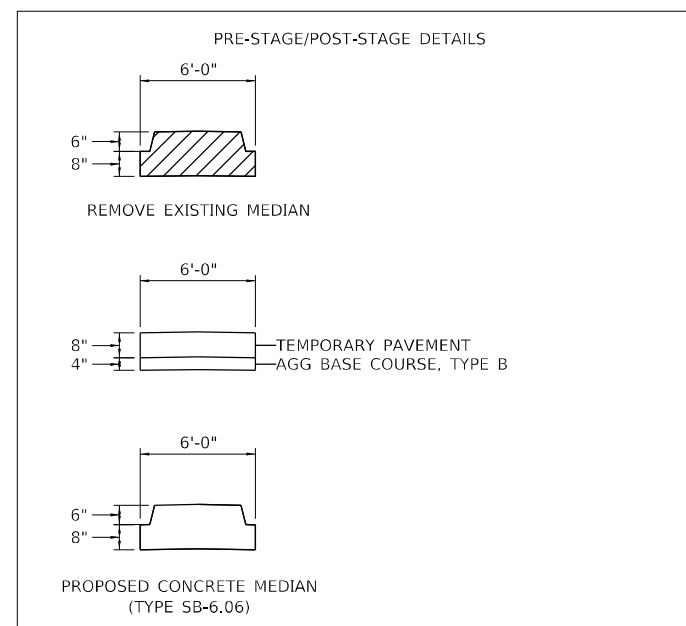
POST-STAGE CONSTRUCTION
 REMOVE TEMPORARY PAVEMENT. CONSTRUCT CONCRETE MEDIAN TYPE SB-6.06. SEE DETAIL BELOW. SEE HIGHWAY STANDARD 606301.

ADDITIONAL STAGING NOTES
 FOR PROTECTIVE SHIELD (PERMANENT) WORK, HIGHWAY STANDARDS 701400, 701402, AND 701411 SHALL BE USED ON I-155.

CONDUCT WORKSITE CLEANUP AND PLACE FINAL PAVEMENT MARKINGS USING HIGHWAY STANDARD 701311 FOR TRAFFIC CONTROL.

IN THE CASE THE PERMANENT FINAL PAVEMENT MARKING CANNOT BE PLACED, A QUANTITY OF TEMPORARY PAVEMENT MARKING IN THE QUANTITY OF THE PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE CONTRACT.

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



MODEL: D:\p\hr\...
 FILE: 1312-2330...
 HURST-ROSCHKE, INC.

HURST-ROSCHKE, INC.
 HILLSBORO, ILLINOIS 62049
 PHONE (217) 532-3959
 HR # 1312-2330
 www.hurst-roschke.com

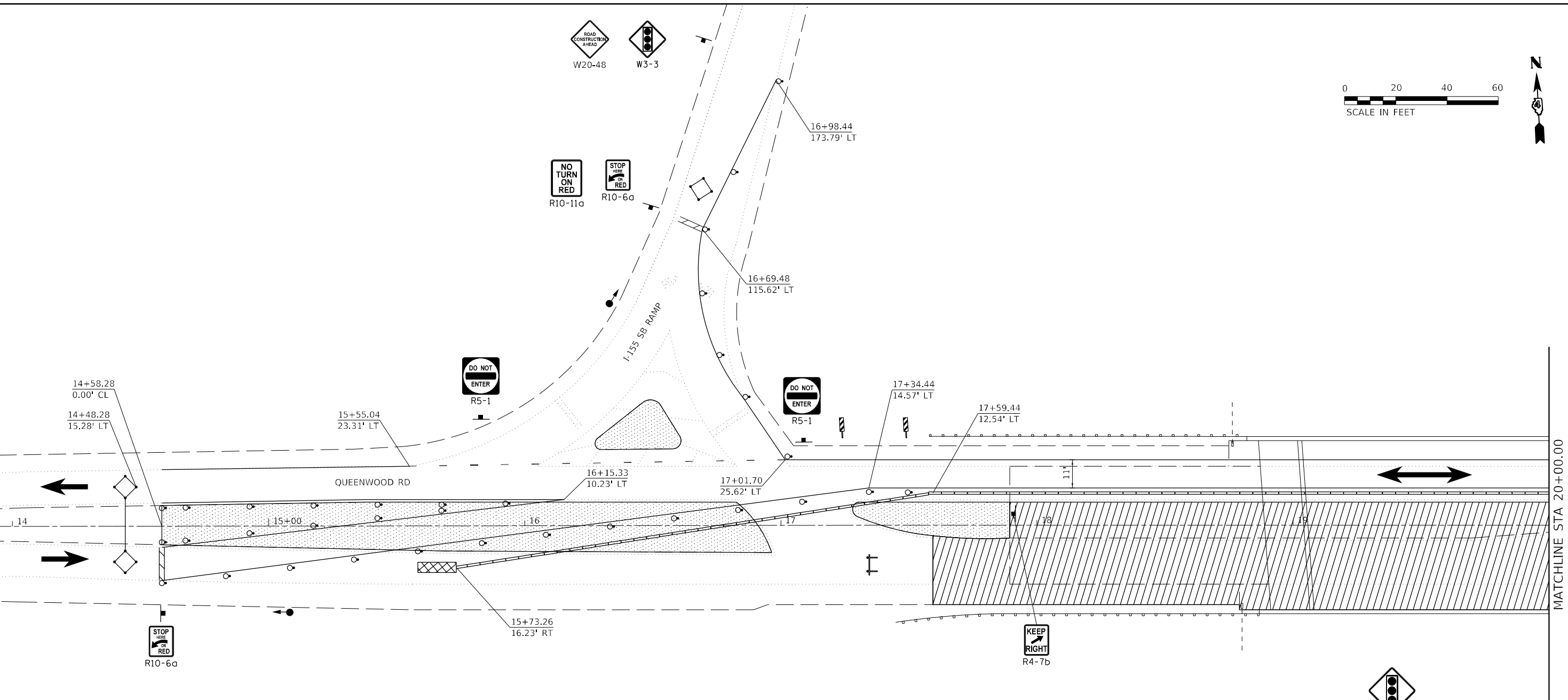
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGING TYPICAL SECTIONS
 S.N. 090-0138**

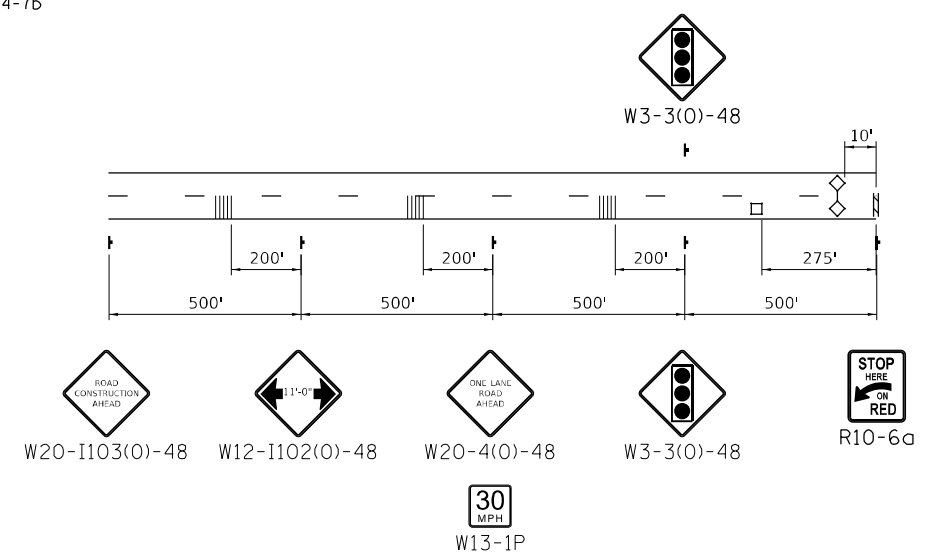
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

- | | | | |
|--|----------------------------|--|--|
| | WORK AREA | | TYPE III BARRICADE WITH FLASHING LIGHTS |
| | TEMPORARY HMA PAVEMENT | | DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT |
| | IMPACT ATTENUATOR | | DRUM |
| | TEMPORARY CONCRETE BARRIER | | TRAFFIC SIGNAL |
| | SIGN | | TEMPORARY RUMBLE STRIPS |
| | DETECTOR LOOP | | |



ADVANCE SIGNING

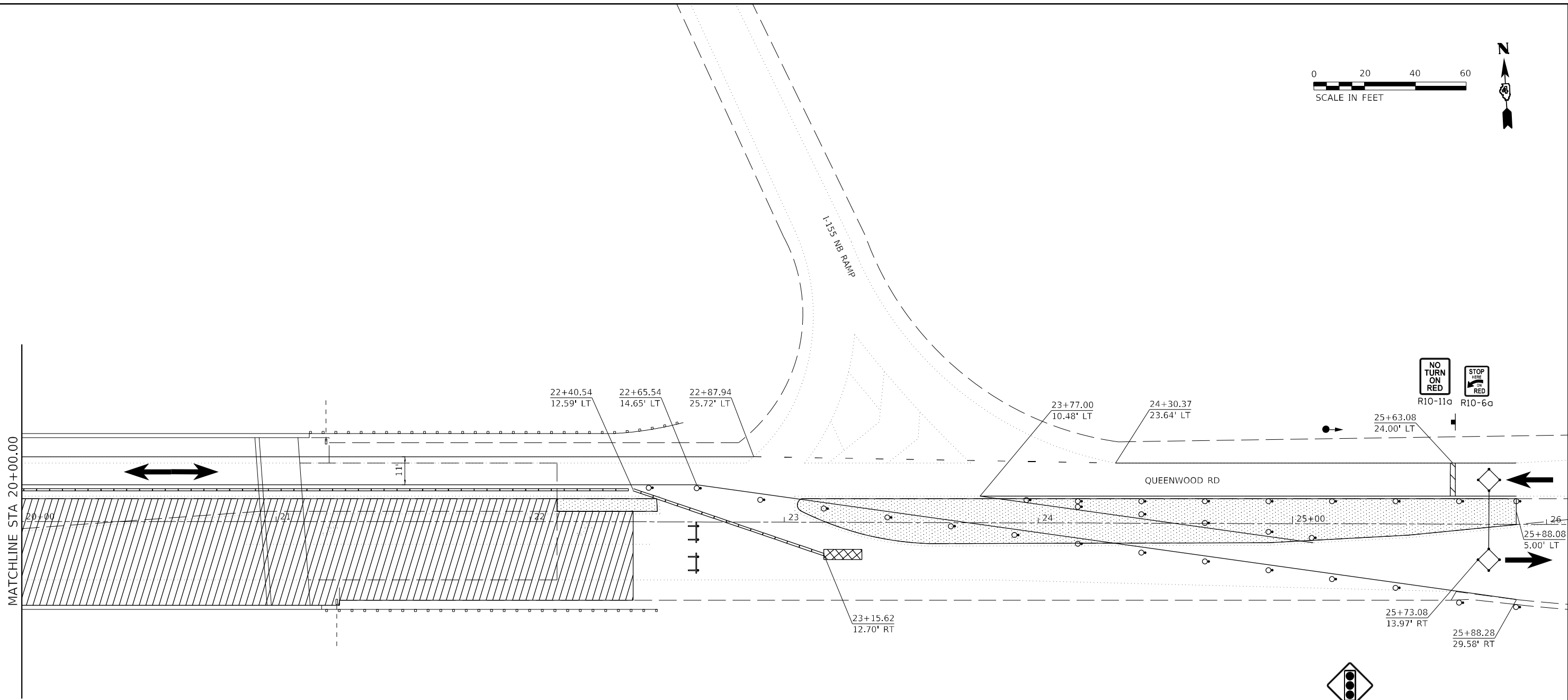
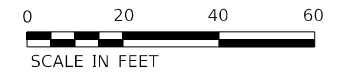
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

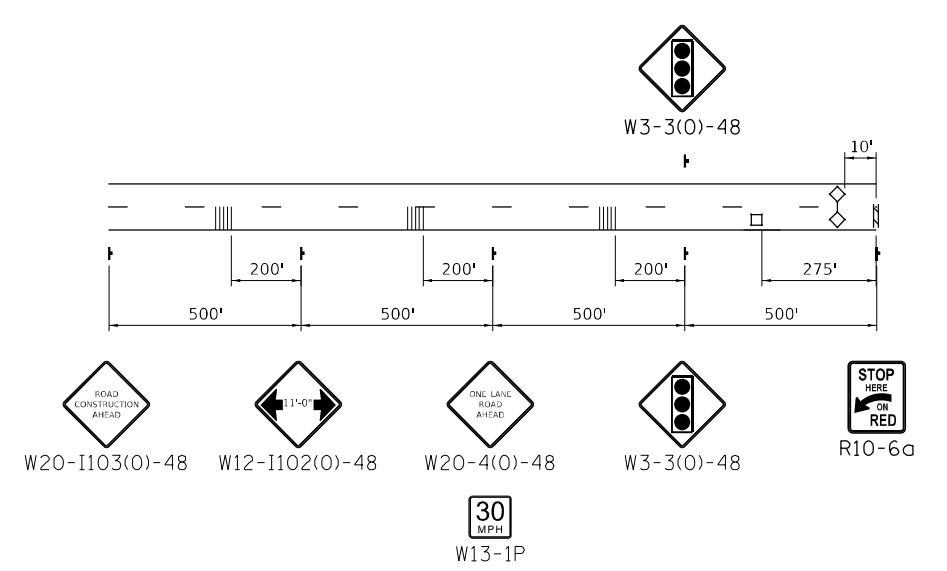
TRAFFIC STAGING PLAN - STAGE I			
S.N. 090-0130			
SCALE: 1" = 20'	SHEET 1	OF 12 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	48
				CONTRACT NO. 68H71
ILLINOIS FED. AID PROJECT				



LEGEND

- WORK AREA
- TEMPORARY HMA PAVEMENT
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- SIGN
- DETECTOR LOOP
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- DRUM
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIPS



ADVANCE SIGNING

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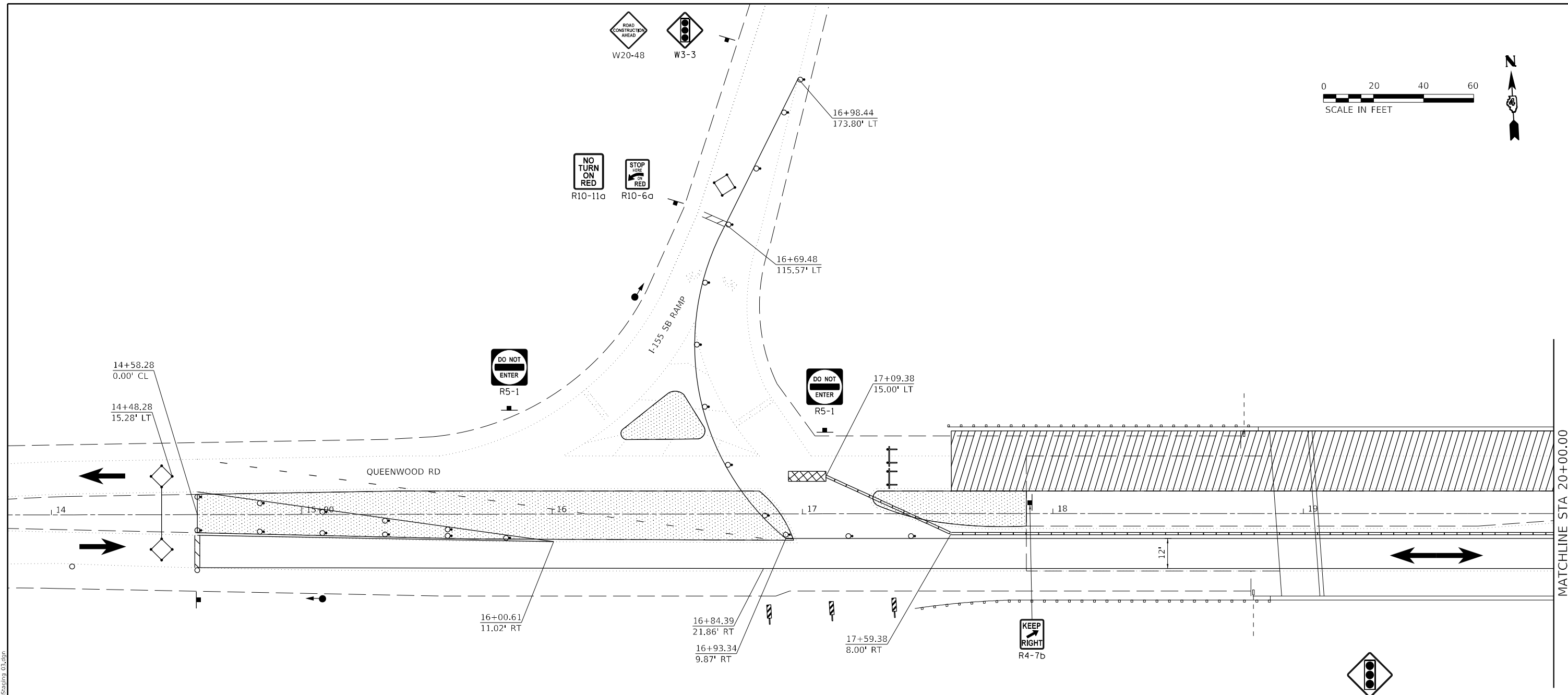
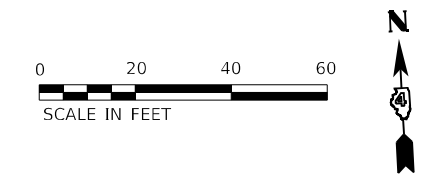
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC STAGING PLAN - STAGE I
S.N. 090-0130

SCALE: 1" = 20' SHEET 2 OF 12 SHEETS STA. TO STA.

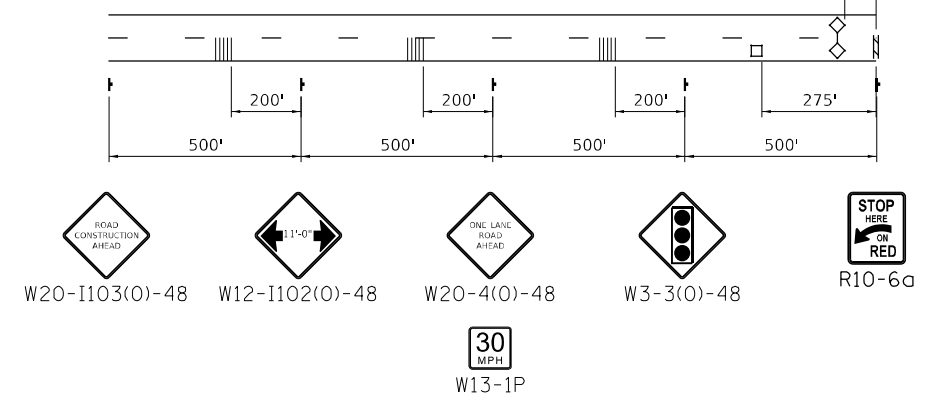
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155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	49
			CONTRACT NO. 68H71	

ILLINOIS FED. AID PROJECT



LEGEND

- WORK AREA
- TEMPORARY HMA PAVEMENT
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- SIGN
- DETECTOR LOOP
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- DRUM
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIPS



ADVANCE SIGNING

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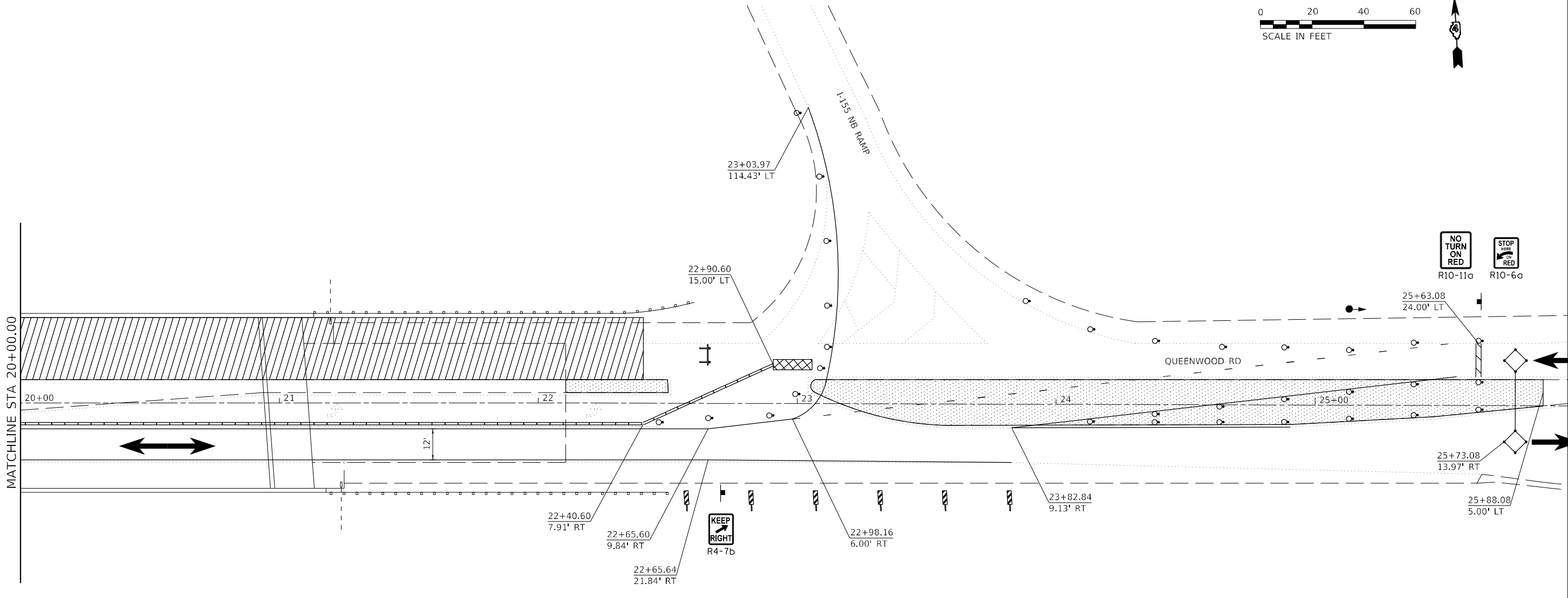
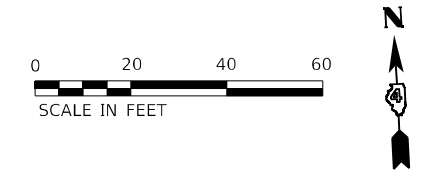
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC STAGING PLAN - STAGE II
S.N. 090-0130

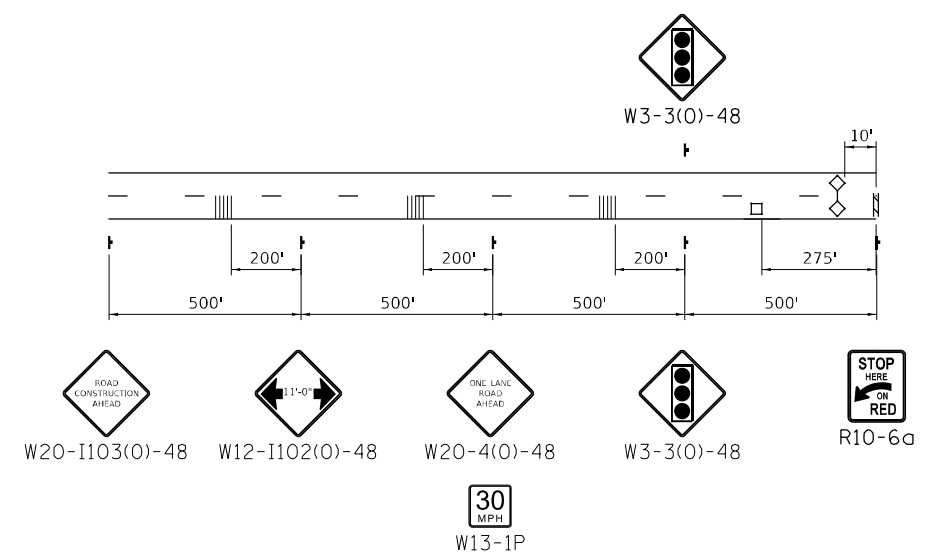
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	50
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

- WORK AREA
- TEMPORARY HMA PAVEMENT
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- SIGN
- DETECTOR LOOP
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- DRUM
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIPS



ADVANCE SIGNING

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DRAWN - MLA	REVISIONS -	
PLOT SCALE = 40,0000 * / in.	CHECKED - SMS	REVISED -
PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC STAGING PLAN - STAGE II
S.N. 090-0130**

SCALE: 1" = 20' SHEET 4 OF 12 SHEETS STA. TO STA.

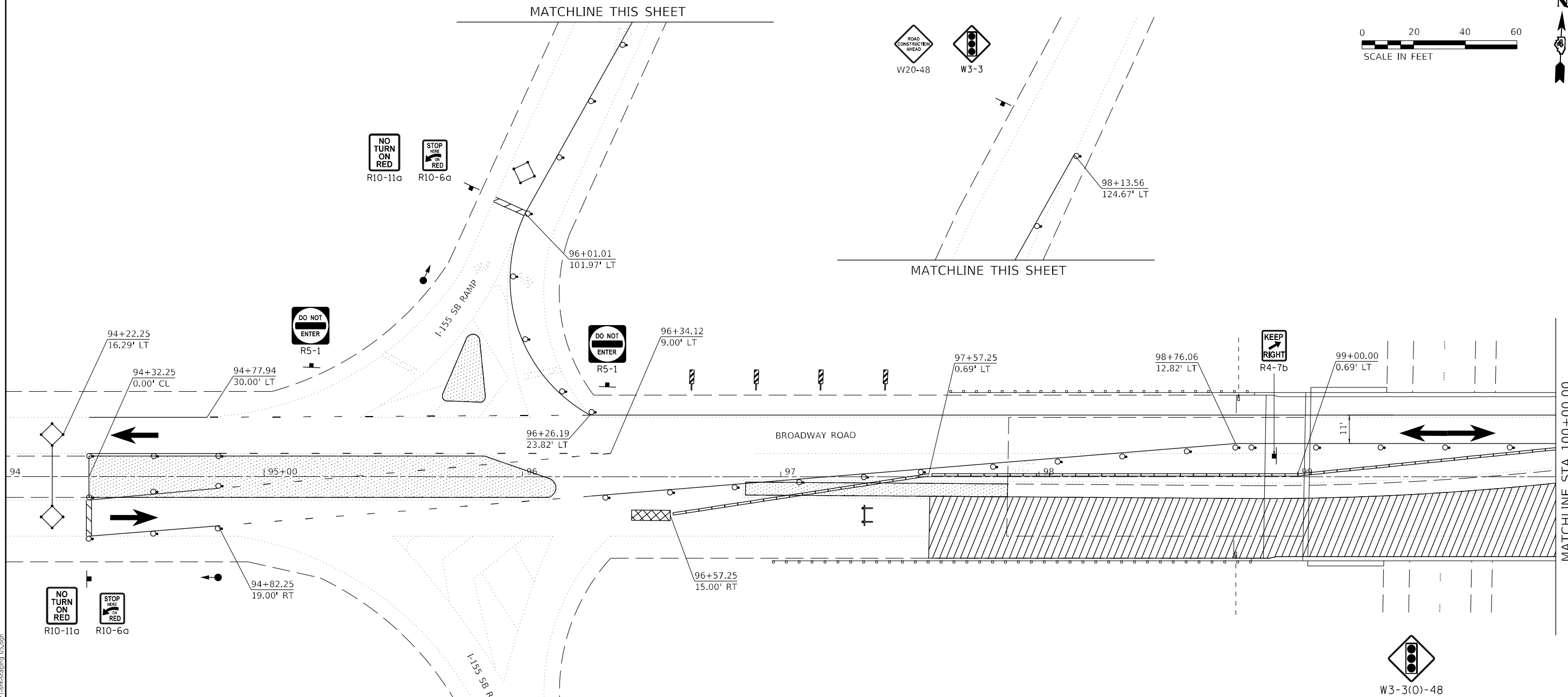
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	














MATCHLINE THIS SHEET

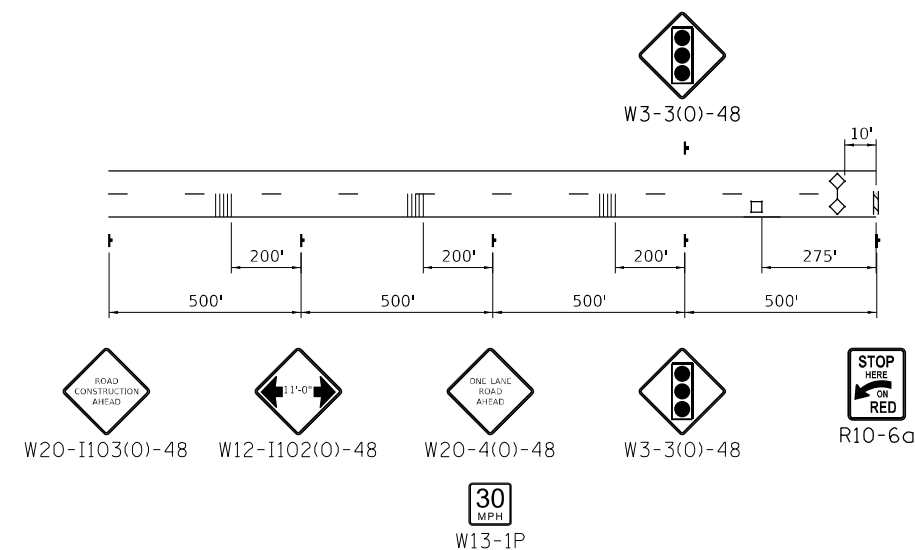
MATCHLINE THIS SHEET

MATCHLINE STA 100+00.00



LEGEND

-  WORK AREA
-  TEMPORARY HMA PAVEMENT
-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER
-  SIGN
-  DETECTOR LOOP
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
-  DRUM
-  TRAFFIC SIGNAL
-  TEMPORARY RUMBLE STRIPS



ADVANCE SIGNING

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USER NAME = ssoto	DESIGNED - MLA	REVISED -
	DRAWN - MLA	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - SMS	REVISED -
PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

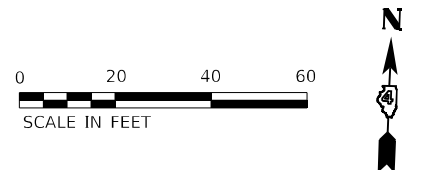
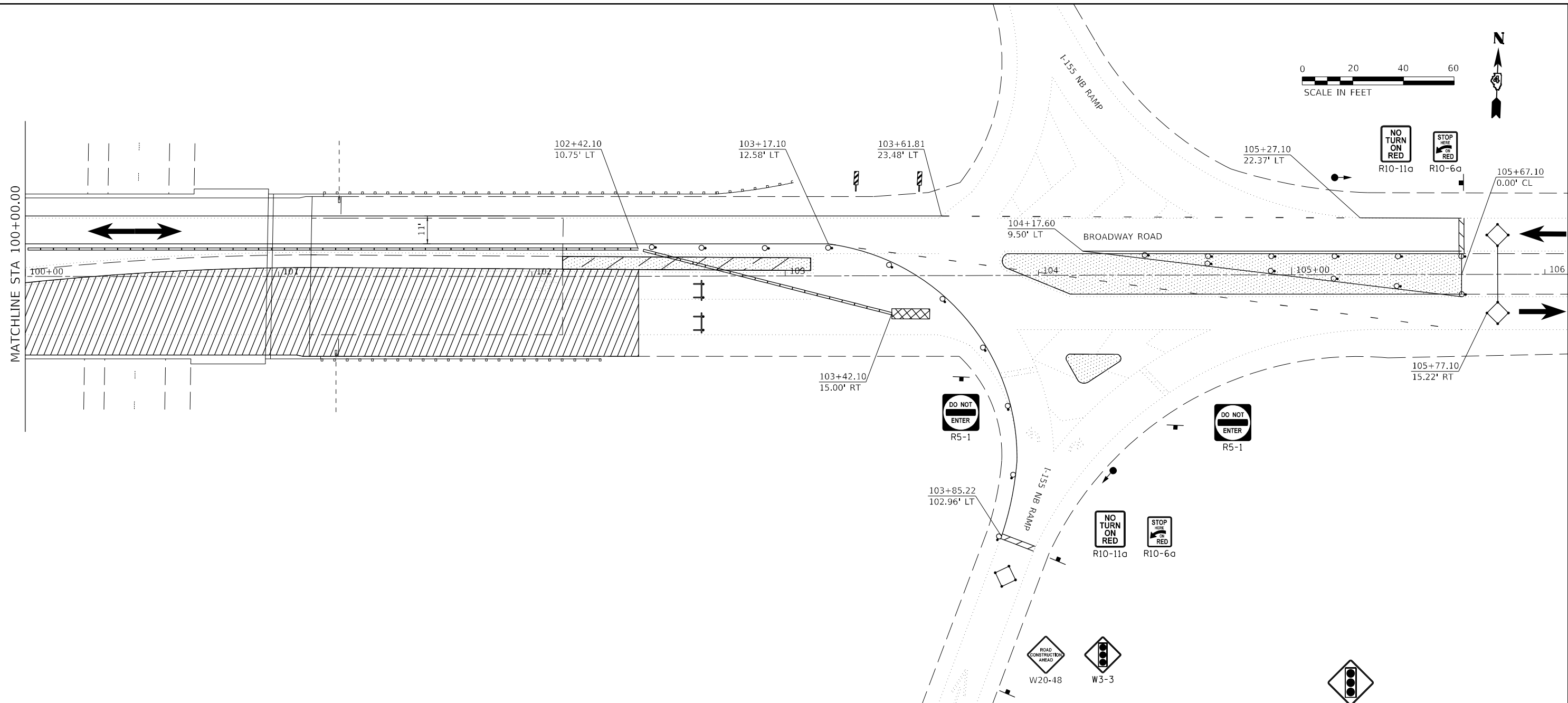
**TRAFFIC STAGING PLAN - STAGE I
S.N. 090-0132**

SCALE: 1" = 20' SHEET 5 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	52
CONTRACT NO. 68H71				

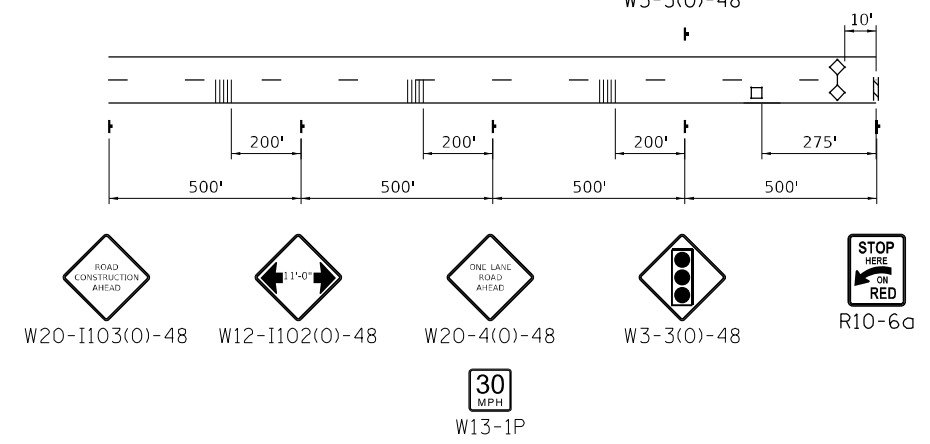
ILLINOIS FED. AID PROJECT

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LEGEND

- WORK AREA
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY HMA PAVEMENT
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- IMPACT ATTENUATOR
- DRUM
- TEMPORARY CONCRETE BARRIER
- TRAFFIC SIGNAL
- SIGN
- TEMPORARY RUMBLE STRIPS
- DETECTOR LOOP



ADVANCE SIGNING

USER NAME = ssolo	DESIGNED - MLA	REVISED -
DRAWN - MLA	REVISOR -	
PLOT SCALE = 40,0000 * / in.	CHECKED - SMS	REVISOR -
PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC STAGING PLAN - STAGE I
S.N. 090-0132**

SCALE: 1" = 20' SHEET 6 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	53
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	

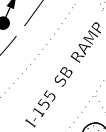
MATCHLINE THIS SHEET



MATCHLINE THIS SHEET

94+32.25
0.00' CL

94+22.25
16.29' LT



96+01.01
101.97' LT

96+32.25
5.00' LT

98+29.48
238.46' LT

BROADWAY ROAD

MATCHLINE STA 100+00.00



94+89.87
23.00' RT

95+30.56
9.00' RT

96+32.09
25.00' RT

96+19.00
14.00' RT

97+57.25
12.00' RT



LEGEND



WORK AREA



TEMPORARY HMA PAVEMENT



IMPACT ATTENUATOR



TEMPORARY CONCRETE BARRIER



SIGN



DETECTOR LOOP



TYPE III BARRICADE WITH FLASHING LIGHTS



DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT



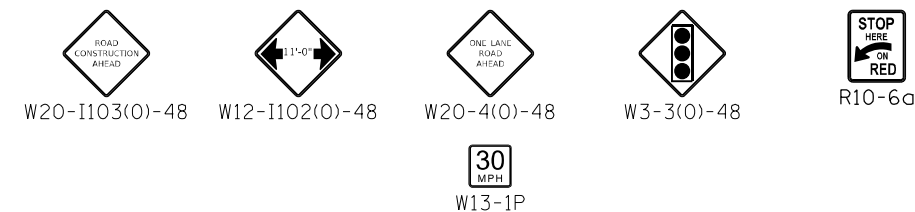
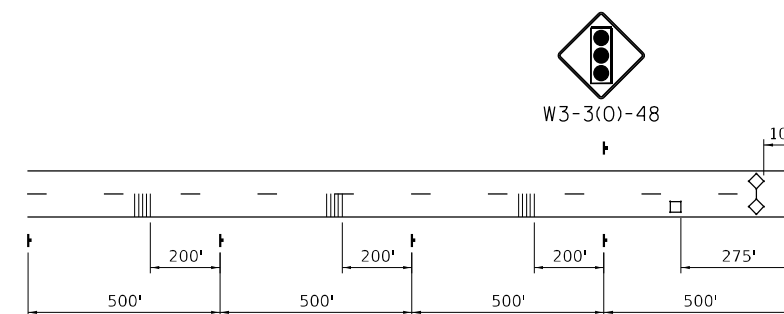
DRUM



TRAFFIC SIGNAL



TEMPORARY RUMBLE STRIPS



ADVANCE SIGNING

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	DRAWN - MLA	REVISED -
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

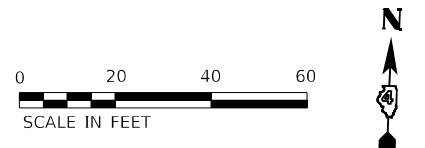
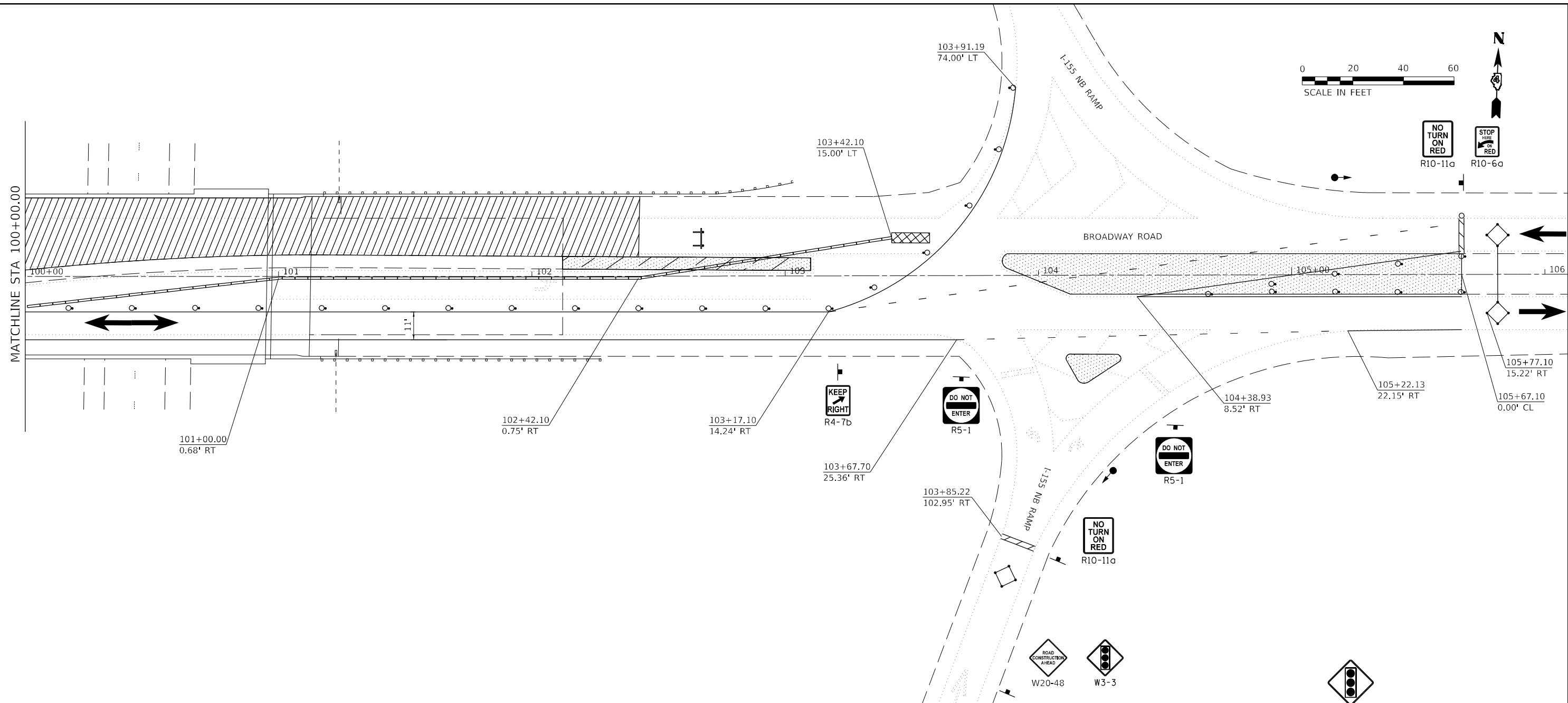
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC STAGING PLAN - STAGE II
S.N. 090-0132**

SCALE: 1" = 20' SHEET 7 OF 12 SHEETS STA. TO STA.

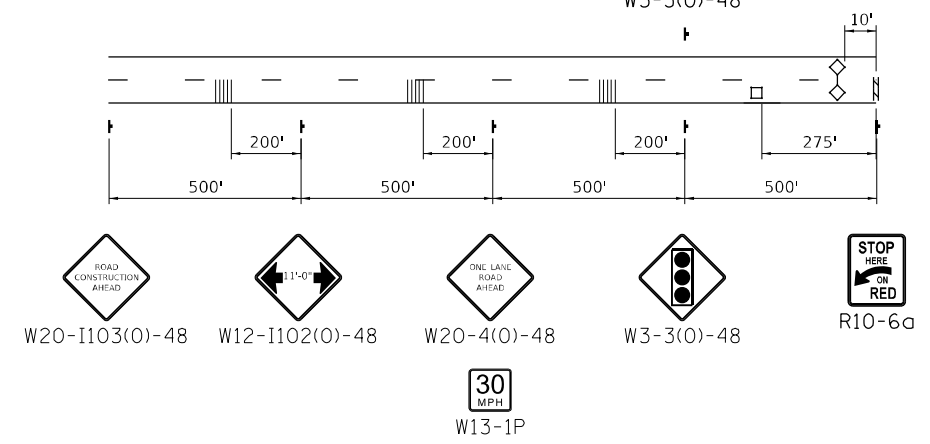
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	54
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	

MODEL: D:\p\h\...
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LEGEND

- WORK AREA
- TEMPORARY HMA PAVEMENT
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- SIGN
- DETECTOR LOOP
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- DRUM
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIPS

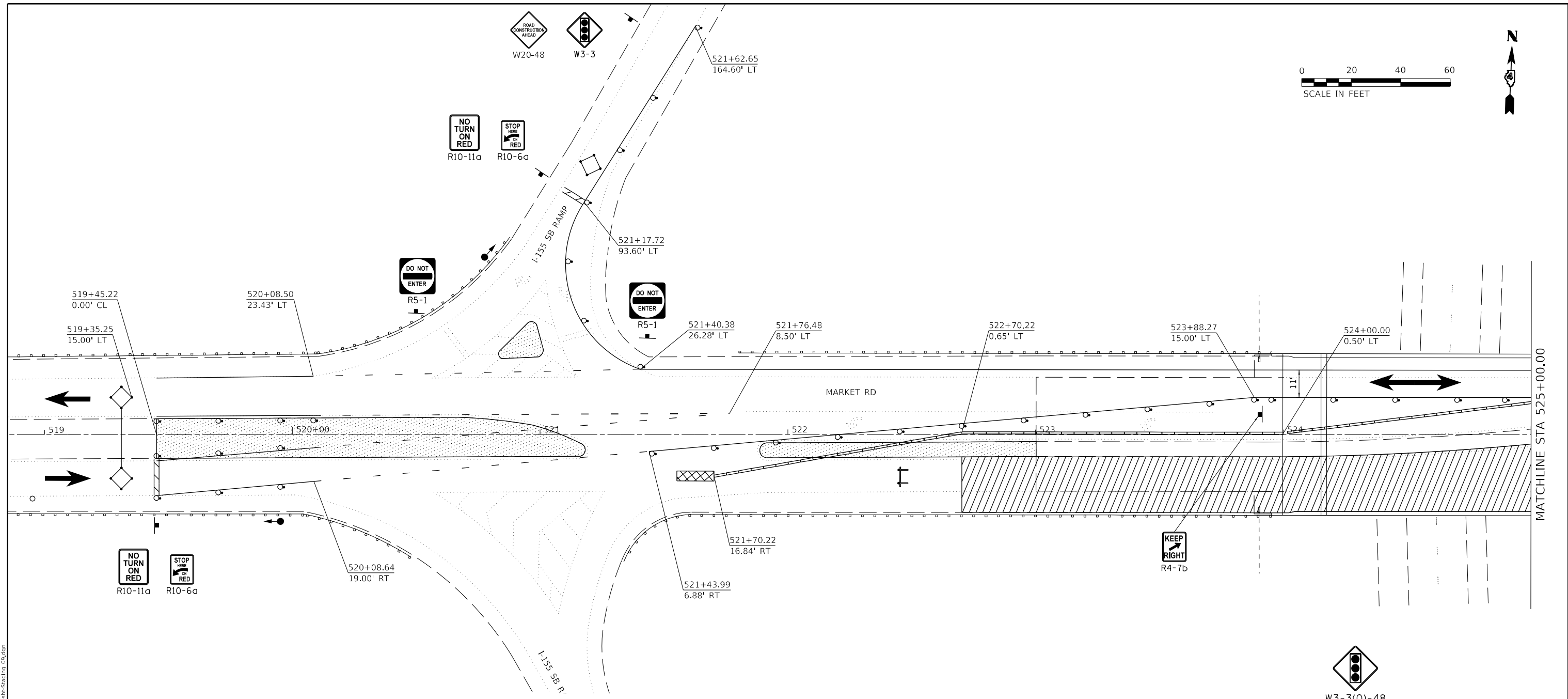
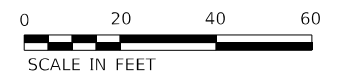


USER NAME = ssolo	DESIGNED - MLA	REVISED -
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

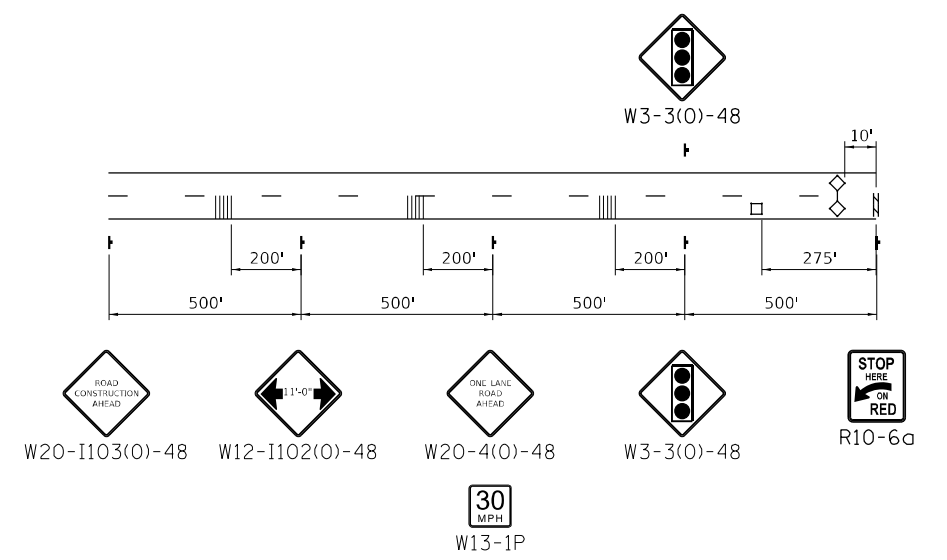
TRAFFIC STAGING PLAN - STAGE II
S.N. 090-0132
 SCALE: 1" = 20' SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	04 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	55
CONTRACT NO. 68H71			ILLINOIS FED. AID PROJECT	



LEGEND

- WORK AREA
- TEMPORARY HMA PAVEMENT
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- SIGN
- DETECTOR LOOP
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- DRUM
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIPS



ADVANCE SIGNING

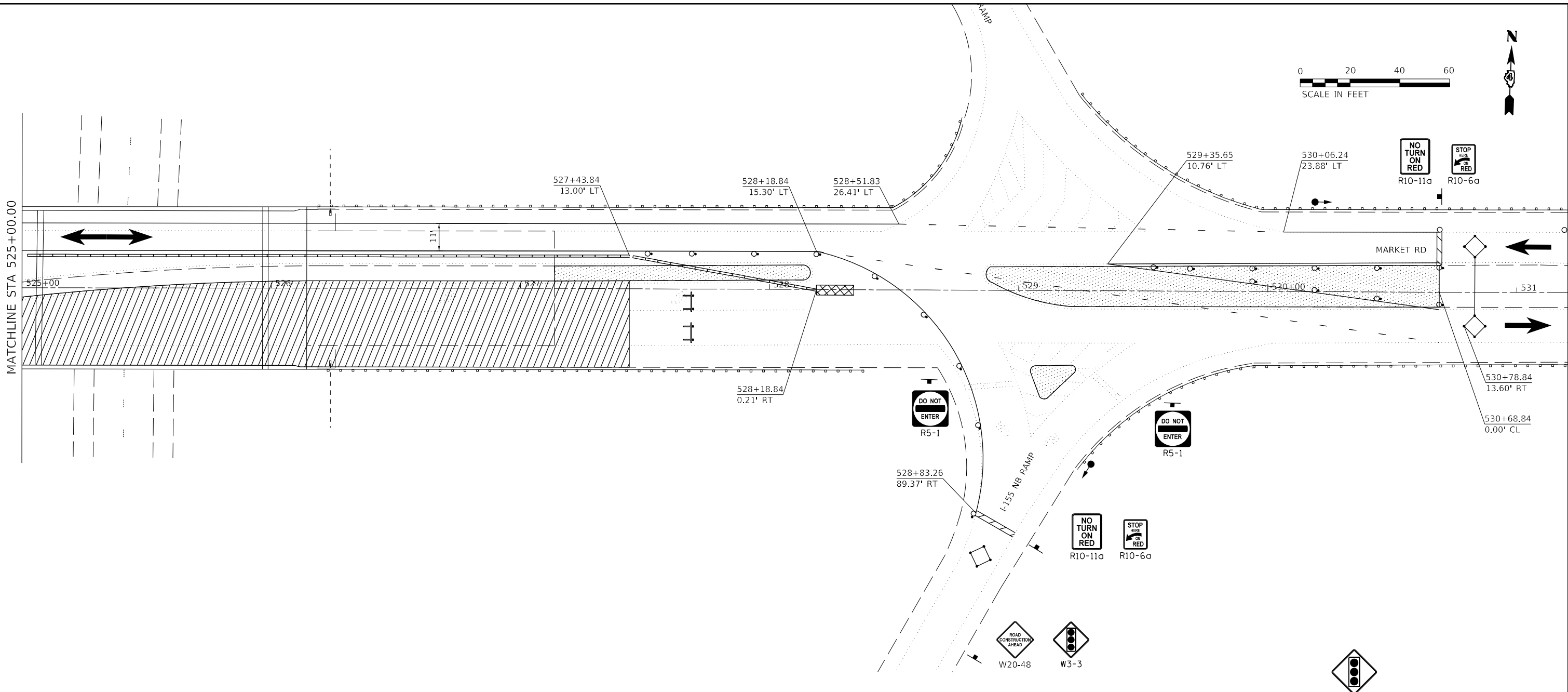
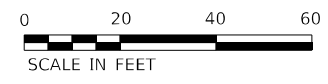
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

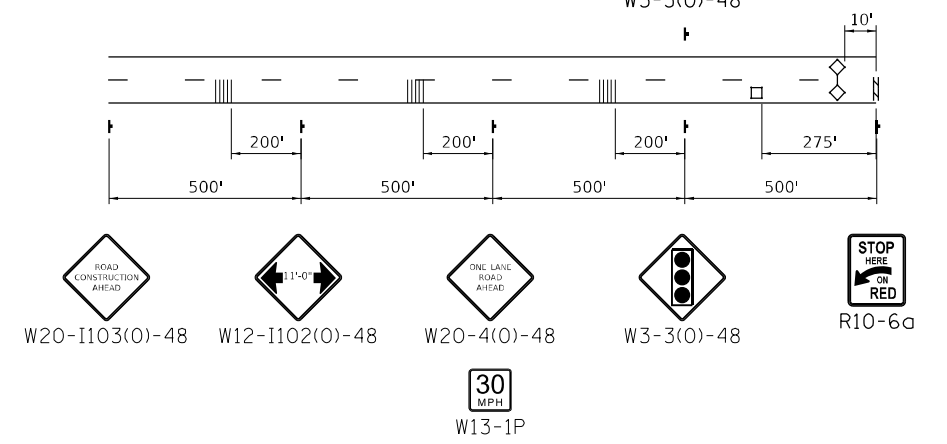
TRAFFIC STAGING PLAN - STAGE I S.N. 090-0138			
SCALE: 1" = 20'	SHEET 9	OF 12 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	56
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

- WORK AREA
- TEMPORARY HMA PAVEMENT
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- SIGN
- DETECTOR LOOP
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- DRUM
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIPS



ADVANCE SIGNING

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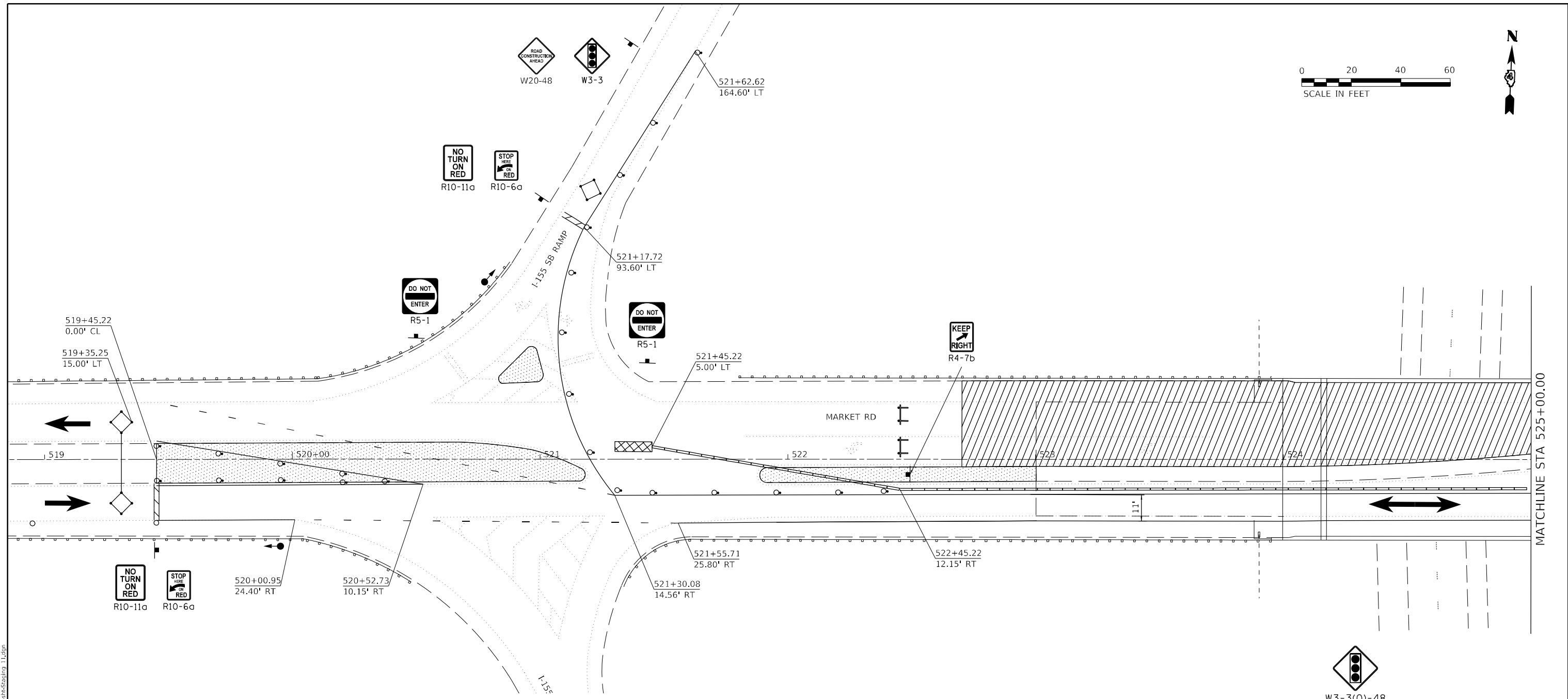
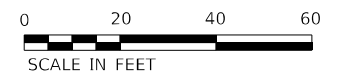
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DRAWN - MLA	REVISIONS -	
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC STAGING PLAN - STAGE I
S.N. 090-0138**

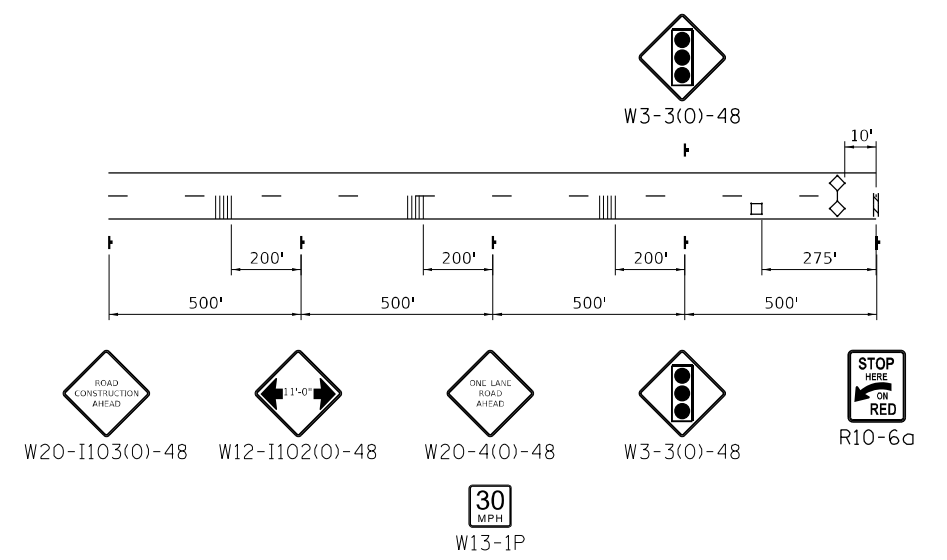
SCALE: 1" = 20' SHEET 10 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	04 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	57
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

- WORK AREA
- TEMPORARY HMA PAVEMENT
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- SIGN
- DETECTOR LOOP
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- DRUM
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIPS



ADVANCE SIGNING

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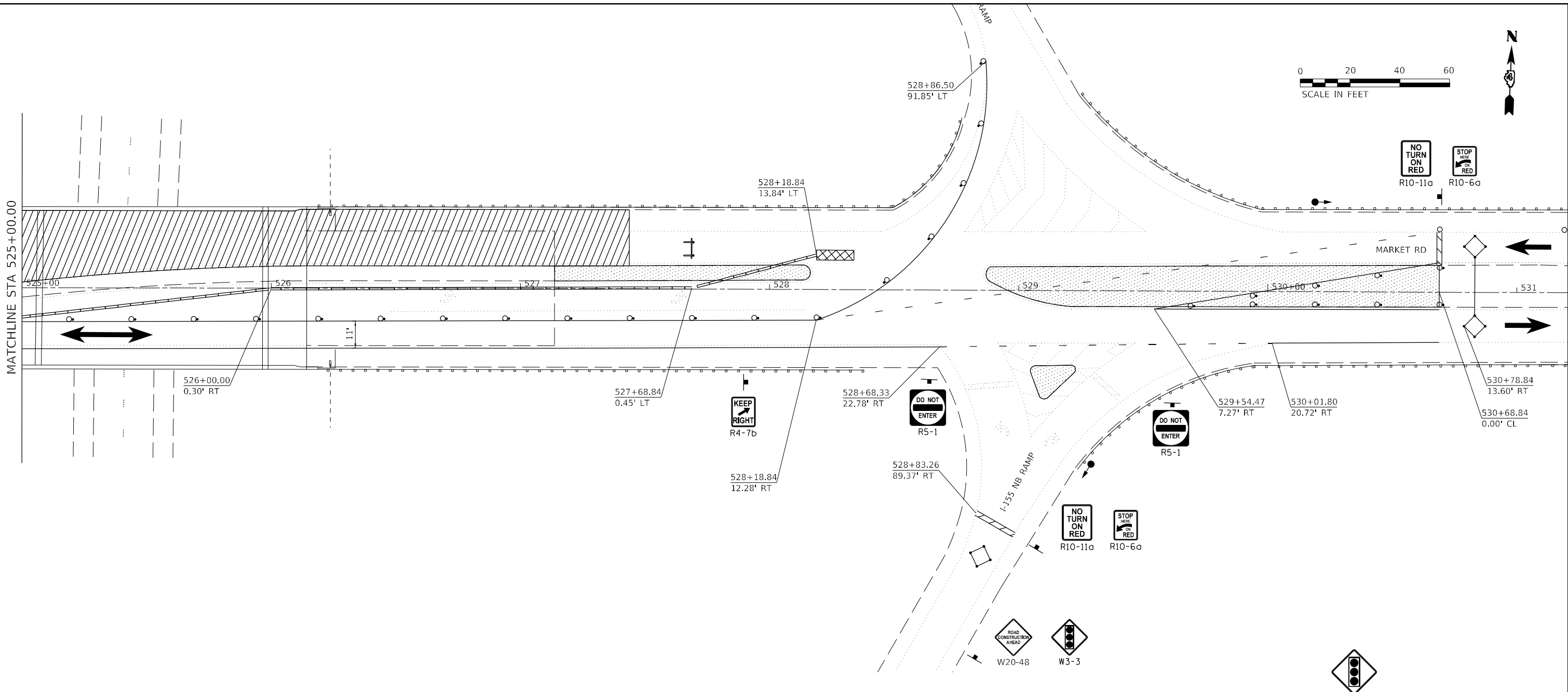
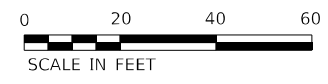
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC STAGING PLAN -- STAGE II
S.N. 090-0138**

SCALE: 1" = 20' SHEET 11 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	58
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



LEGEND

- WORK AREA
- TEMPORARY HMA PAVEMENT
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- SIGN
- DETECTOR LOOP
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
- DRUM
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIPS

ADVANCE SIGNING

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DRAWN - MLA	REVISED -	
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

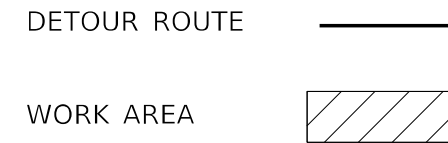
TRAFFIC STAGING PLAN - STAGE II
S.N. 090-0138

SCALE: 1" = 20' SHEET 12 OF 12 SHEETS STA. TO STA.

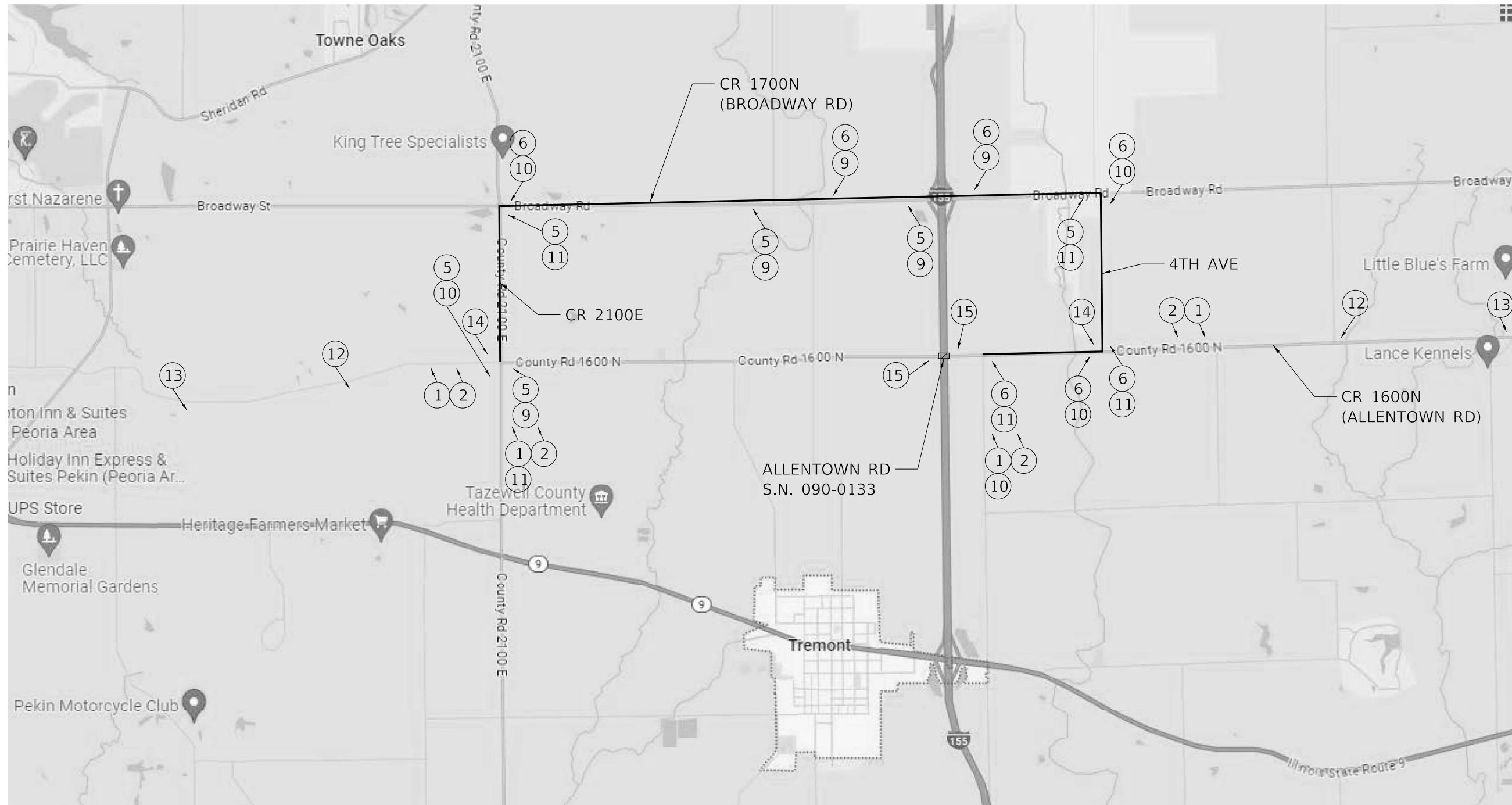
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	04 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	59
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	

REPAIR OF EXISTING ELECTRICAL FACILITIES

1. ALL BRIDGES THAT HAVE ELECTRICAL FACILITIES FOR OVERHEAD LIGHTING WILL BE FIELD INSPECTED BY IDOT OPERATIONS AND THE PROJECT RESIDENT ENGINEER TO DETERMINE IF THERE ARE ANY COMPONENTS THAT NEED TO BE REPAIRED OR REPLACED.
2. ALL DEFICIENCIES IN ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO, RIGID CONDUIT, FLEXIBLE CONDUIT, CONDUIT HANGERS, CONDUIT FITTINGS, JUNCTION BOXES, AND ELECTRICAL WIRE SHALL BE REPAIRED TO ENSURE THAT THESE FACILITIES ARE IN ACCEPTABLE CONDITION SO THAT THE OVERHEAD LIGHTING SYSTEM REMAINS IN OPERATION.
3. ALL ELECTRICAL FACILITIES SHALL BE SEALED TO PREVENT WATER AND RODENT DAMAGE.
4. THE CONTRACTOR SHALL SUBMIT ALL MATERIAL TO IDOT FOR REVIEW AND APPROVAL PRIOR TO DOING ANY WORK.
5. THE COST OF ELECTRICAL REPAIRS WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.



NOT TO SCALE



MODEL: Default
 FILE: I:\MAILS\2024\Projects\Current\192-1063 IDOT DA W02 P1B206-20_Various Bridges_Preservation\DCM\68H71\0468H71-sht-decour1.dgn
 Hurst-Rosche, Inc.



HURST-ROSCHÉ, INC.
 HILLSBORO, ILLINOIS 62049
 PHONE (217) 532-3959
 HR # 192-2330
 www.hurst-rosche.com

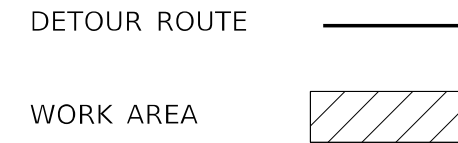
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PLOT DATE = 2/14/2024	CHECKED - JJC	REVISED -
	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

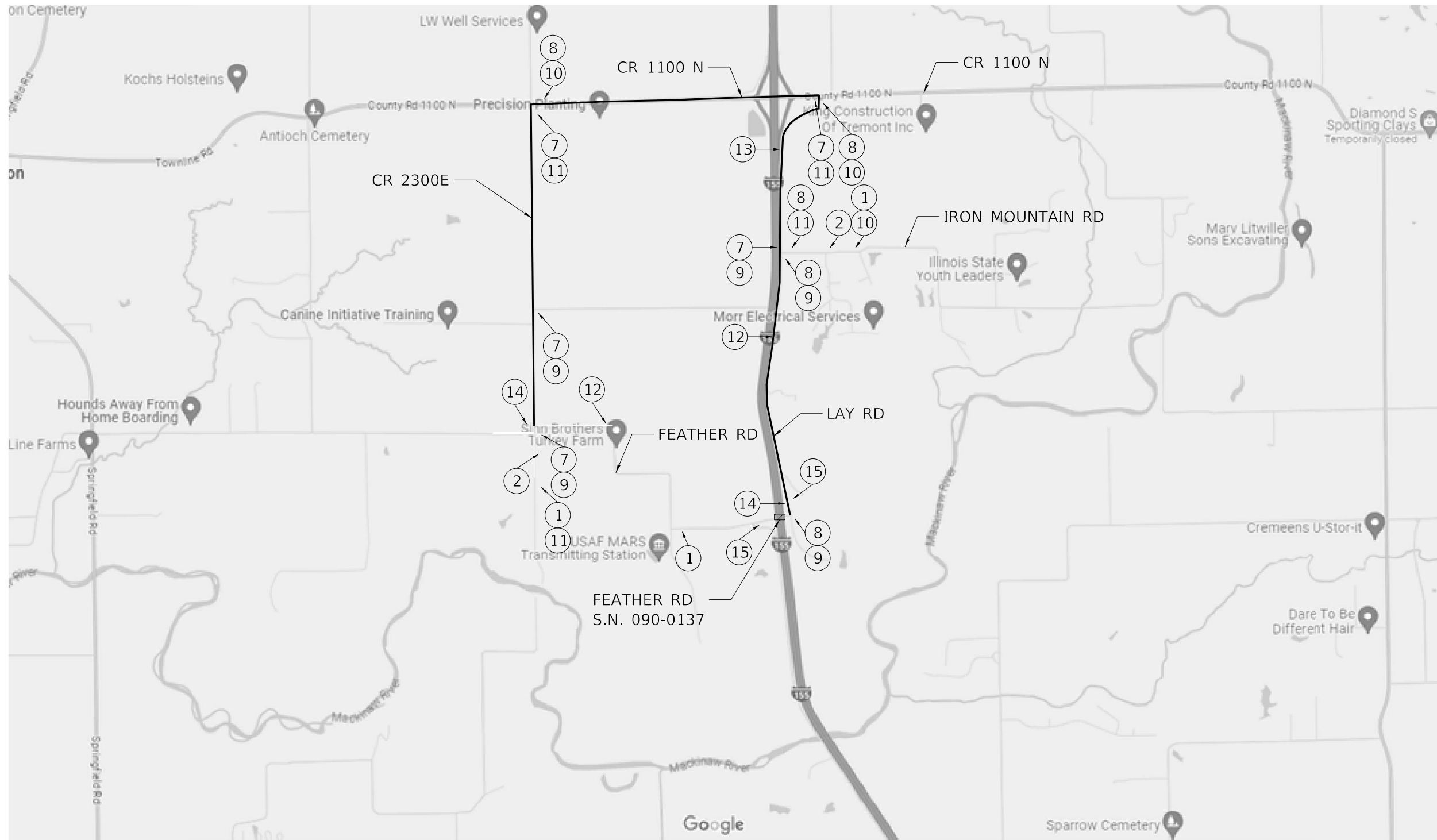
DETOUR ROUTE
S.N. 090-0133

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	04 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	61
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



NOT TO SCALE



MODEL: Default
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HURST-ROSCHÉ, INC.
 HILLSBORO, ILLINOIS 62049
 PHONE (217)532-3859
 HR # 192-2130
 www.hurst-rosche.com

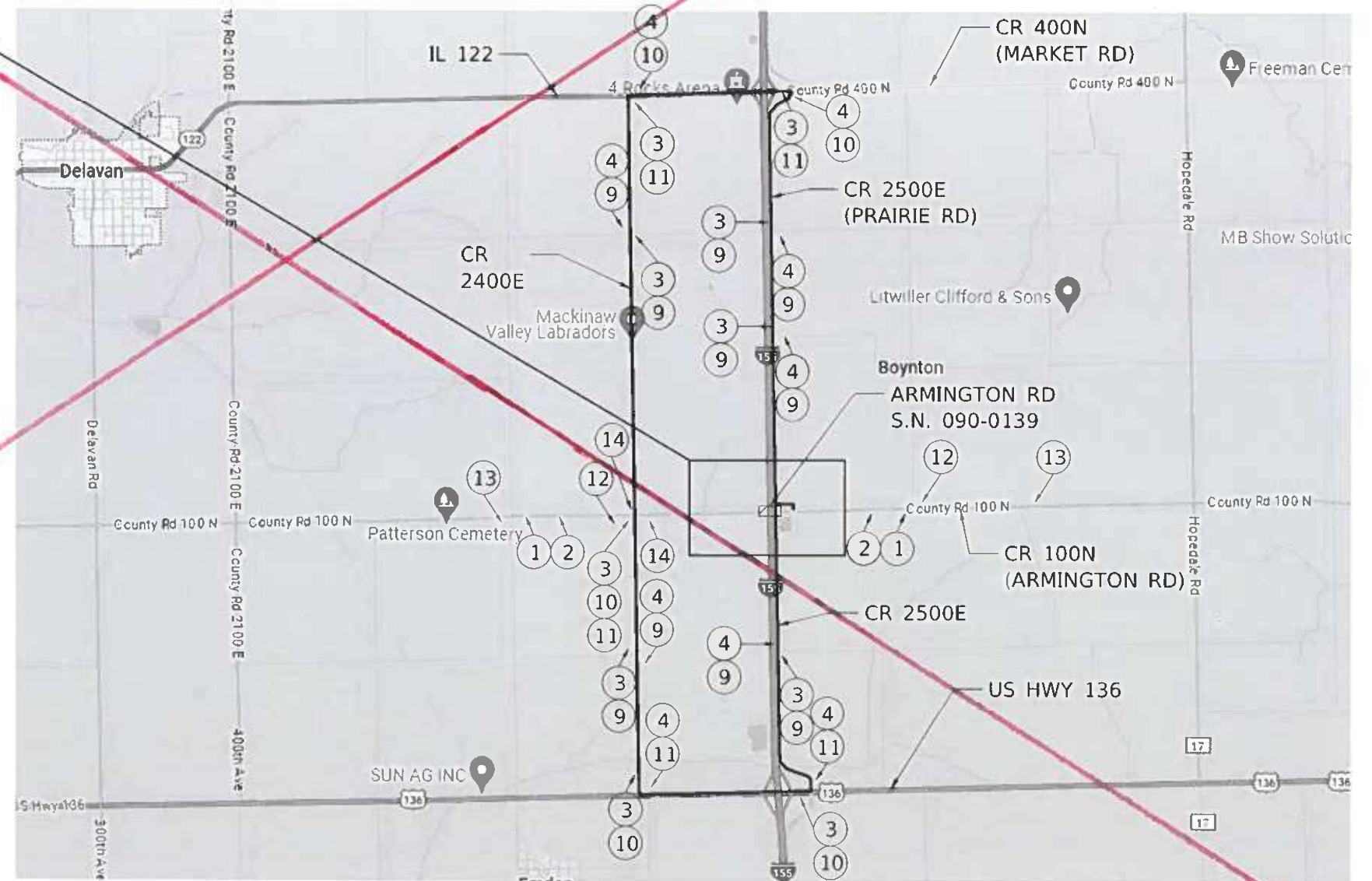
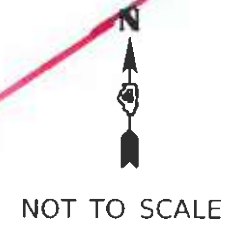
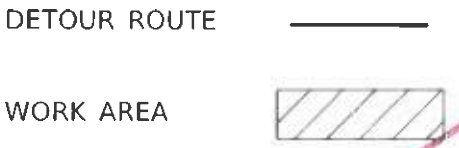
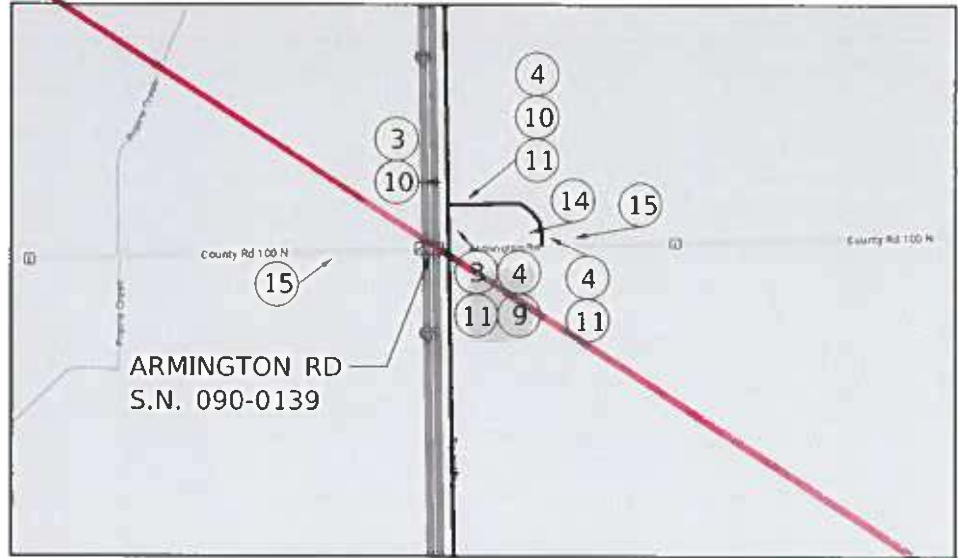
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PLOT SCALE = 2,000' / in.	DRAWN - KYH	REVISED -
PLOT DATE = 2/14/2024	CHECKED - JJC	REVISED -
	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE
S.N. 090-0137

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	04 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	62
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



MODEL: Default
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 USER: s1060
 PROJECT: 132-1063
 DATE: 2/14/2024



HURST-ROSCHÉ, INC.
 HILLSBORO, ILLINOIS 62049
 PHONE (217) 532-3950
 HR # 152-2330
 www.hurst-rosche.com

DESIGNED - KYH	REVISED -
DRAWN - KYH	REVISED -
CHECKED - JIC	REVISED -
DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

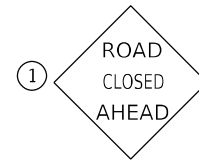
DETOUR ROUTE S.N. 090-0139	
SCALE:	TO STA.
SHEET 3	OF 4 SHEETS

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	04 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	63
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

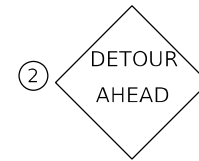
NOTES

1. THE CONTRACTOR SHALL FURNISH THE SIGNS AND POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THE DETOUR ROUTE, AS DIRECTED BY THE RESIDENT ENGINEER. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
2. SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
3. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6.0' FROM THE EDGE OF PAVEMENT, AS DIRECTED BY THE RESIDENT ENGINEER.
4. CONTRACTOR SHALL FURNISH ADVANCE WARNING SIGNS, ROAD CLOSURE SIGNS, CHANGEABLE MESSAGE BOARDS AND TYPE 3 BARRICADES.
5. ALL ADVANCE SIGNS SHALL BE 48" FLOURESCENT ORANGE WITH FLASHING LIGHTS.
6. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL) AND NO OTHER COMPENSATION WILL BE ALLOWED.
7. EIGHT CHANGEABLE MESSAGE SIGNS SHALL BE REQUIRED AND PLACED AT THE LOCATIONS SHOWN ON THE PLANS AS DIRECTED BY THE RESIDENT ENGINEER. TWO CHANGEABLE MESSAGE SIGNS SHALL BE PLACED TWO WEEKS PRIOR TO ROADWAY CLOSURE NEAR THE PROJECT LIMITS. ALL CHANGEABLE MESSAGE SIGNS WILL BE PAID FOR AS CHANGEABLE MESSAGE SIGN CAL DAY.
8. QUANTITY OF SIGNS SHOWN ON THIS SHEET ONLY INCLUDE NUMBER OF SIGNS SHOWN ON THE DETOUR ROUTE LAYOUT ON THE PREVIOUS SHEETS.

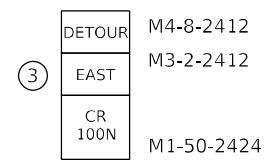
SIGNS TO BE FURNISHED BY THE CONTRACTOR



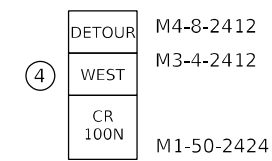
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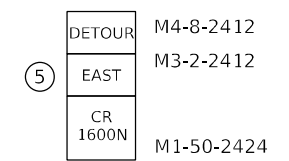
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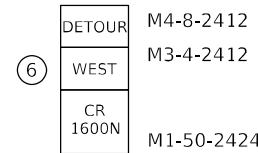
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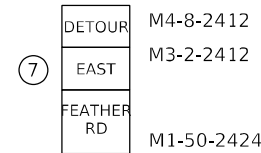
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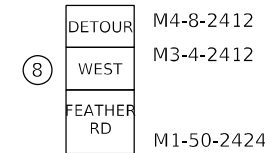
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7 EACH



5 EACH



5 EACH



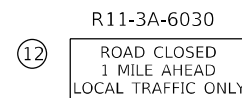
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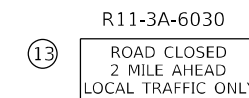
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17 EACH



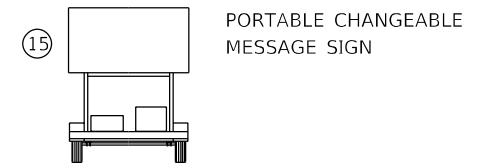
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5 EACH



7 EACH



6 EACH

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FILE: I:\MAIL\Z\p\objects\Current\192-1063 IDOT D4 W02 P1B206-30 Joribus Bridges Preservation\DCM68H71.DWG68H71-sht-detour.dgn

HR
HURST-ROSCHKE, INC.
HILLSBORO, ILLINOIS 62049
PHONE (217)532-3859
HR # 192-2130
www.hurst-roschke.com

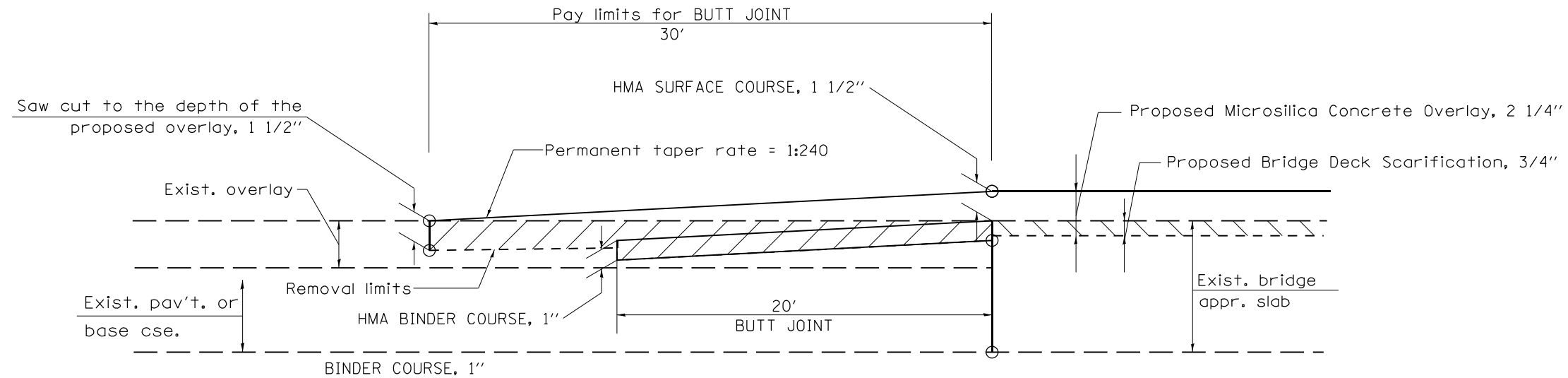
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PLOT DATE = 2/14/2024	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE SIGN DETAILS
090-0133, 090-0137, & 090-0139

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR 2024	TAZEWELL	123	64
			CONTRACT NO. 68H71	
ILLINOIS FED. AID PROJECT				



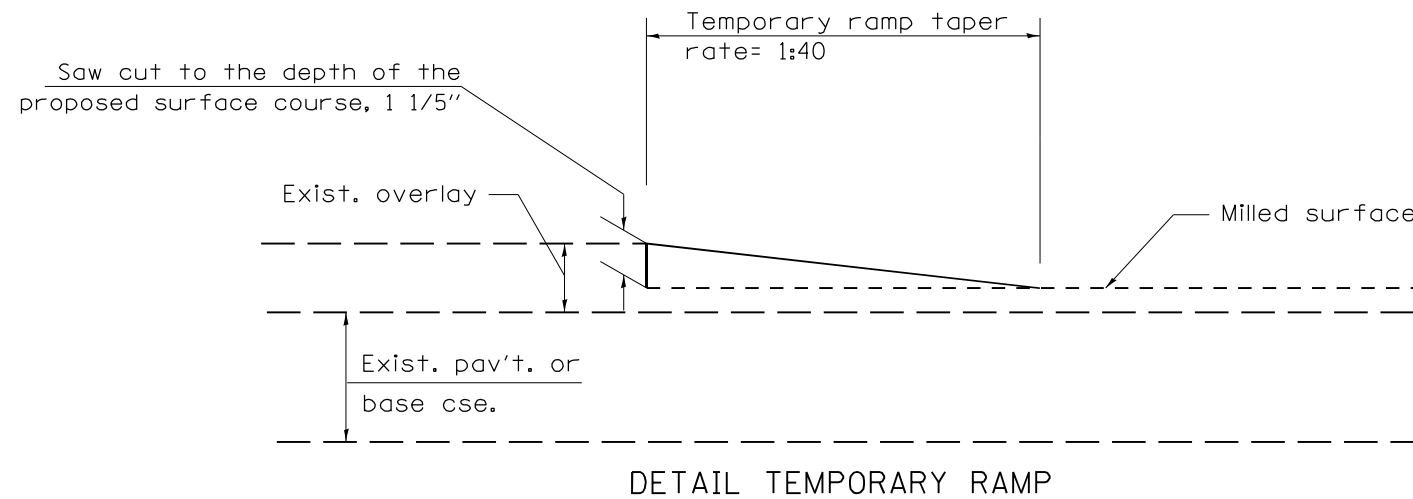
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**TABLE A
TAPER RATES**

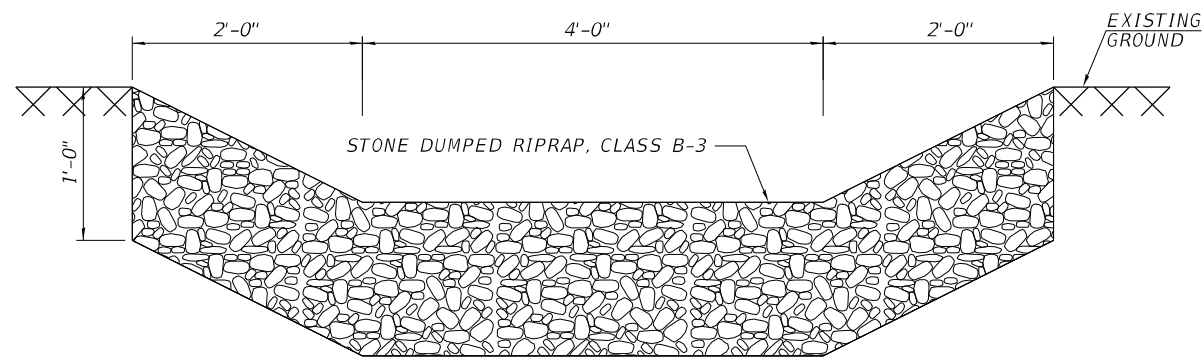
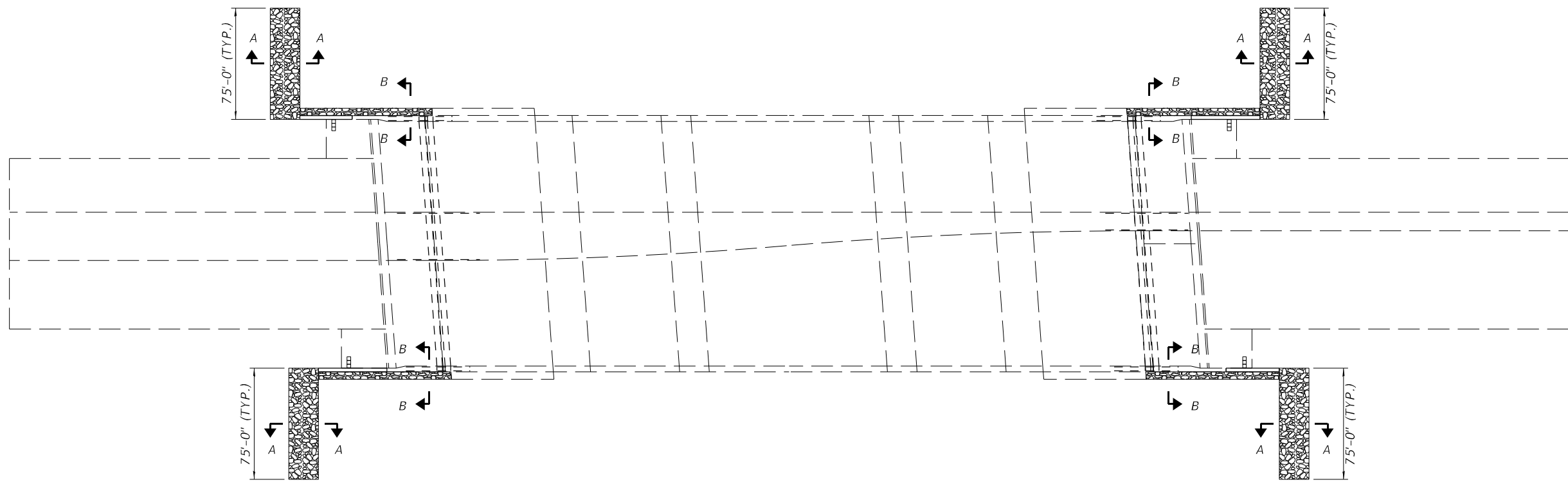
SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:80	1:40

GENERAL NOTES

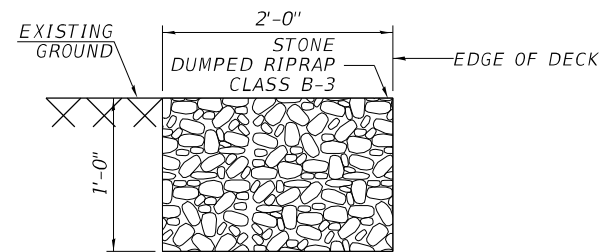
- The work shall be done in accordance with Article 406.08.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
- The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
- Temporary ramps are paid for separately and not included in the cost of the butt joints.



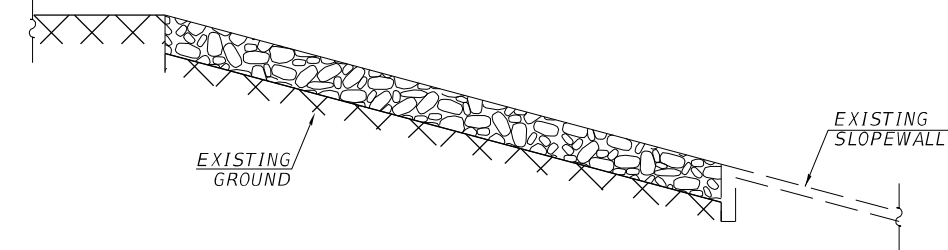
DETAIL TEMPORARY RAMP



SECTION A-A



SECTION B-B



SECTION C-C

NOTES:

1. PREPARATION FOR PLACEMENT OF RIPRAP SHALL BE COMPLETED IN THE SAME DAY, ELIMINATING THE NEED FOR TEMPORARY EROSION CONTROL.
2. SEE REMOVAL PLAN FOR REMOVAL OF EXISTING INLET GRATE AND PIPE CULVERT REMOVAL.
3. VERIFY LENGTH AND DIRECTION OF STONE RIP RAP SWALE IN FIELD AND AS DIRECTED BY THE ENGINEER.

MODEL: D:\p\hr\192-1063 IDOT D4 W02 P7B206-30_Various Bridges_Preservation\DCM\68H71\0468H71-sht-ripap- detail.dgn
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HURST-ROSCHÉ, INC.
 HILLSBORO, ILLINOIS 62049
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 HR # 192-2330
 www.hurst-rosche.com

USER NAME = ssolo	DESIGNED - JJC	REVISED -
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	DATE - 02/09/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED RIPRAP DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155 D4 BRIDGE JOINT REPAIR 2024		TAZEWELL	123	66
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	

Benchmark:
TBM 130-A: Chiseled "I" on C N Headwall of Double 10'x6' Box Culvert Under Existing TR 61 (Queenwood Road) 900' ± West of FA 406.

Existing Structure No. 090-0130:

The existing structure is a two span bridge with a 7 1/2" concrete deck supported by 36" Wide-Flange beams. The structure was constructed in 1989 as Section 90-(106x)HB-1. The superstructure is supported by closed vaulted abutments. It has an out to out deck width of 69'-2" and a 191'-7" back to back abutment length.

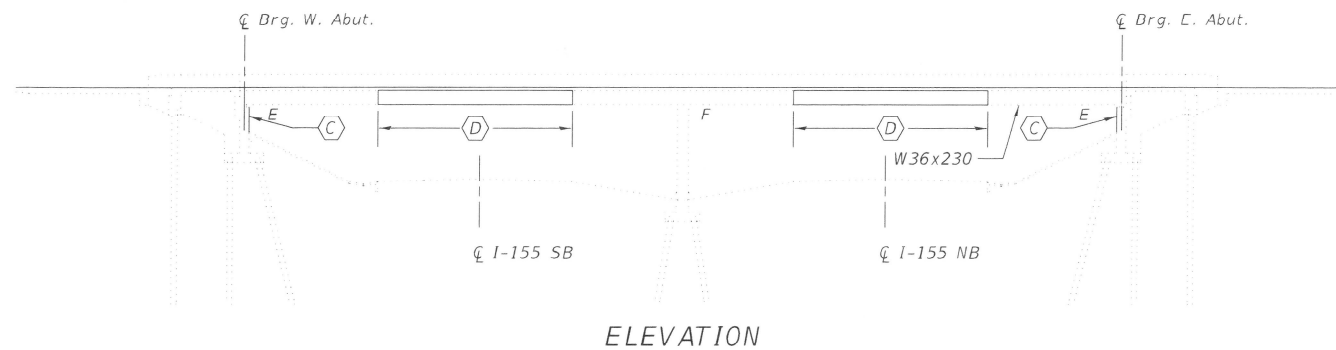
SCOPE OF WORK

1. Implement Traffic Control and shift EB and WB traffic to the North side of the structure
2. Install Permanent Protective Shield above the NB and SB I-155 as indicated on the plans
3. Remove Inlet Grates and Replace with RipRap Swales per civil sheets
4. Perform Bridge Deck Scarification, 3/4"
5. Perform Deck Slab and Concrete Median Repairs as indicated on the Plans, Fill Relief Joint Cracks as Needed
6. Perform Expansion Joint Reconstruction
7. Perform Bridge Deck Microsilica Concrete Overlay, 2 1/4"
8. Shift EB and WB Traffic to the South Side of the Structure and repeat Items 3 through 7 above
9. Perform Abutment Repairs at locations indicated on Plans

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	18.4
Concrete Superstructure	Cu. Yd.	20.8
Bridge Deck Grooving	Sq. Yd.	2070
Protective Coat	Sq. Yd.	2283
Reinforcement Bars, Epoxy Coated	Lbs	1830
Bar Splicers	Each	18
Preformed Joint Strip Seal	Foot	139
Epoxy Crack Injection	Foot	95
* Protective Shield (Permanent)	Sq. Yd.	648
* Surface Filler (Special)	Gallon	9
* Protective Coat (Special)	Sq. Yd.	574
* Bridge Deck Scarification 3/4"	Sq. Yd.	2233
* Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq. Yd.	2233
* Concrete Median Repair	Sq. Ft.	889
* Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	117
* Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	12
* Slopewall Slurry Pumping	Cu. Yd.	8.4

* Denotes Special Provision



ELEVATION

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction
3. Deck Repair Plan
4. West Expansion Joint Removal & Replacement (1 of 2)
5. West Expansion Joint Removal & Replacement (2 of 2)
6. East Expansion Joint Removal & Replacement (1 of 2)
7. East Expansion Joint Removal & Replacement (2 of 2)
8. Abutment Repair Details
9. Preformed Joint Strip Seal
10. Bar Splice Assembly and Mechanical Splicers Details
11. Permanent Protective Shield

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck for expansion joint reconstruction and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose 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 paid for according to Article 109.04 of the Standard Specifications.

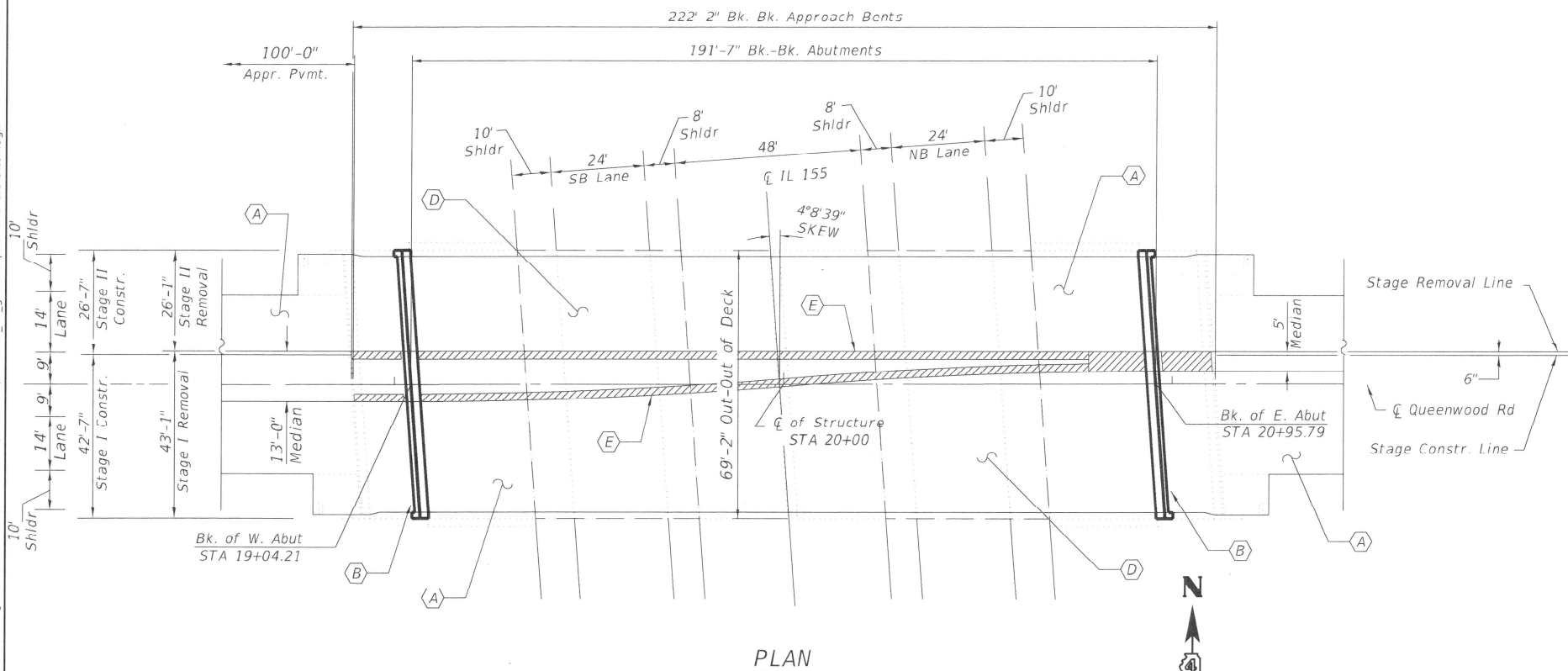
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to the existing structure have been taken from existing plans and 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 variation shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

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

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.



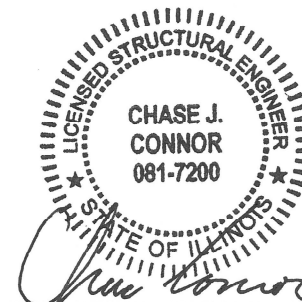
PLAN

KEYED NOTES

- (A) Bridge Deck Scarification 3/4" and 2 1/4" Microsilica Concrete Overlay
- (B) Expansion Joint Replacement
- (C) Structural Repair of Abutments
- (D) Permanent Protective Shielding
- (E) Concrete Median Repair

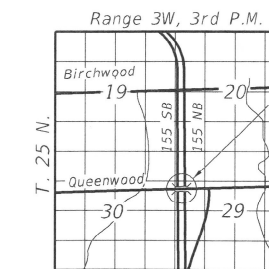
LEGEND

- Expansion Joint Replacement
- Limits of 3/4" Scarification and 2 1/4" Microsilica Concrete Overlay
- Limits of Protective Shield (Permanent)
- ▨ Concrete Median Repair



CHASE J. CONNOR, P.E., S.E.
ILLINOIS STRUCTURAL NO. 7200
EXPIRES: NOVEMBER 30, 2024

2/9/24



LOCATION SKETCH

GENERAL PLAN & ELEVATION
QUEENWOOD ROAD
OVER I-155
TAZEWELL COUNTY
STATION 20+00.00
STRUCTURE NO. 090 0130

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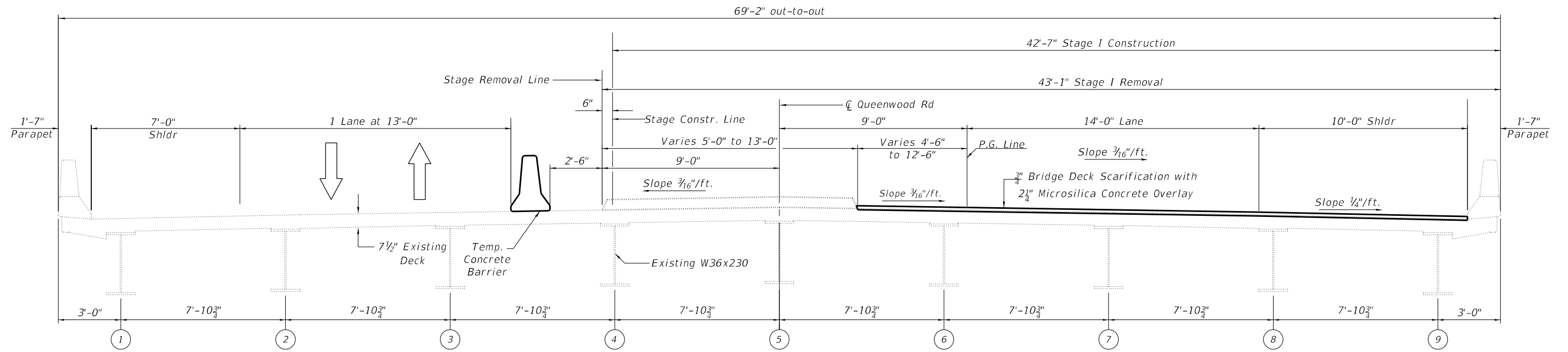
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

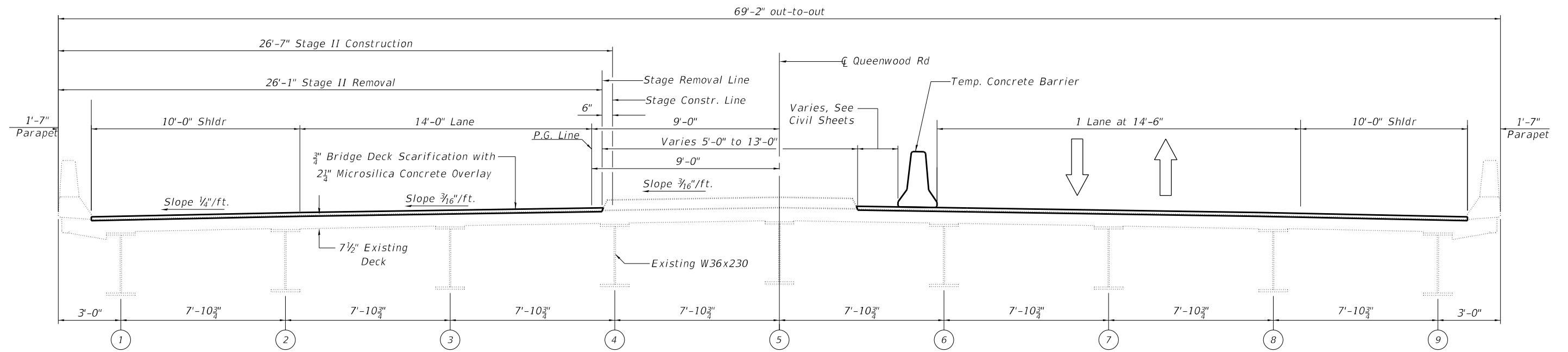
GENERAL PLAN & ELEVATION
STRUCTURE NO. 090-0130

SHEET 1 OF 11 SHEETS

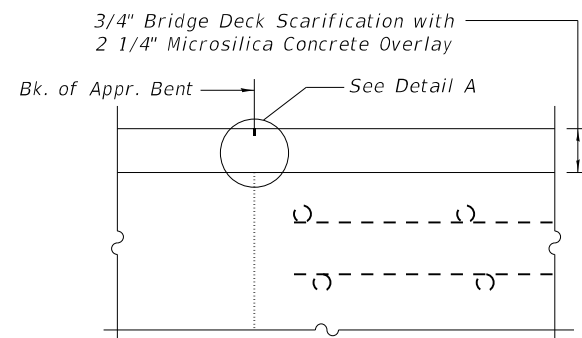
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155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	67
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



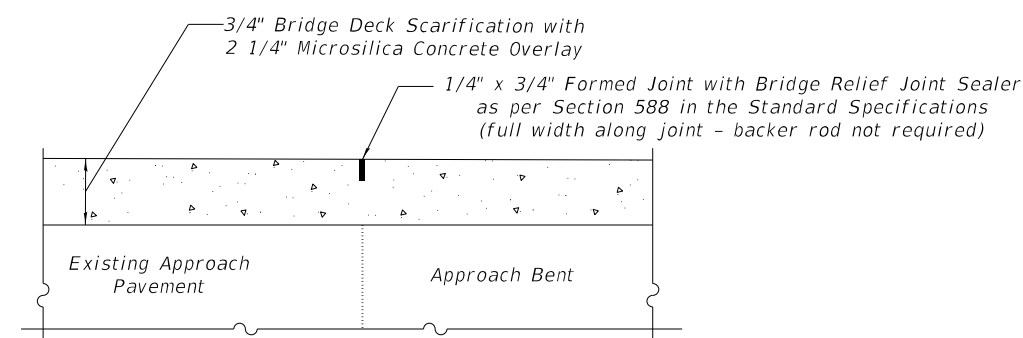
STAGE I REMOVAL AND CONSTRUCTION
(Looking East)



STAGE II REMOVAL AND CONSTRUCTION
(Looking East)



SECTION AT APPROACH



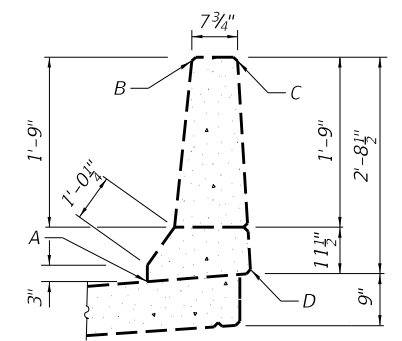
DETAIL A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Surface Filler (Special)	Gallon	9
Protective Coat (Special)	Sq. Yd.	574

NOTES

- Surface Filler (Special) and Protective Coat (Special) shall be applied per the Special Provisions.
- Protective Coat (Special) to cover from Point A through Points B, C and D of the Parapet.



PARAPET SEALING DETAIL

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HR
 Hurst-Rosche, Inc.
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

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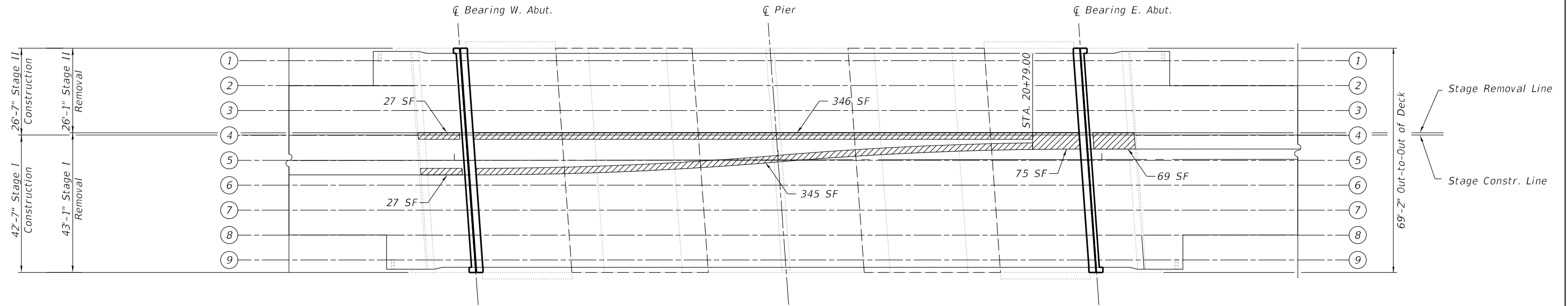
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION
STRUCTURE NO. 090-0130

SHEET 2 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	68
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

- Notes:
1. Areas of deck repair and concrete median repair shown are estimated. The Engineer shall show actual locations of deck and concrete median repairs at the time of construction.
 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. All Concrete Median Repair is to occur during stage I as shown in the plans.
 4. SF = Square Feet



LEGEND

- Concrete Median Repair
- Limits of Protective Shielding (Permanent)

DECK REPAIR PLAN



BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq. Yd.	2283
Protective Shield (Permanent)	Sq. Yd.	648
Bridge Deck Scarification	Sq. Yd.	2233
Bridge Deck Microsilica Overlay	Sq. Yd.	2233
Concrete Median Repair	Sq. Ft.	889

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Hurst-Rosche, Inc.
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

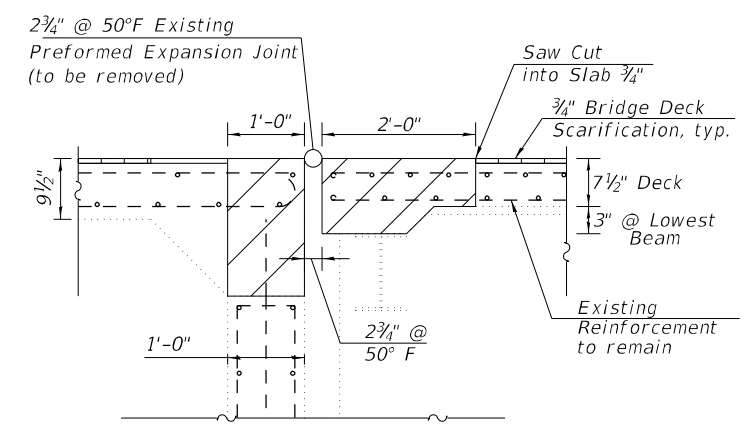
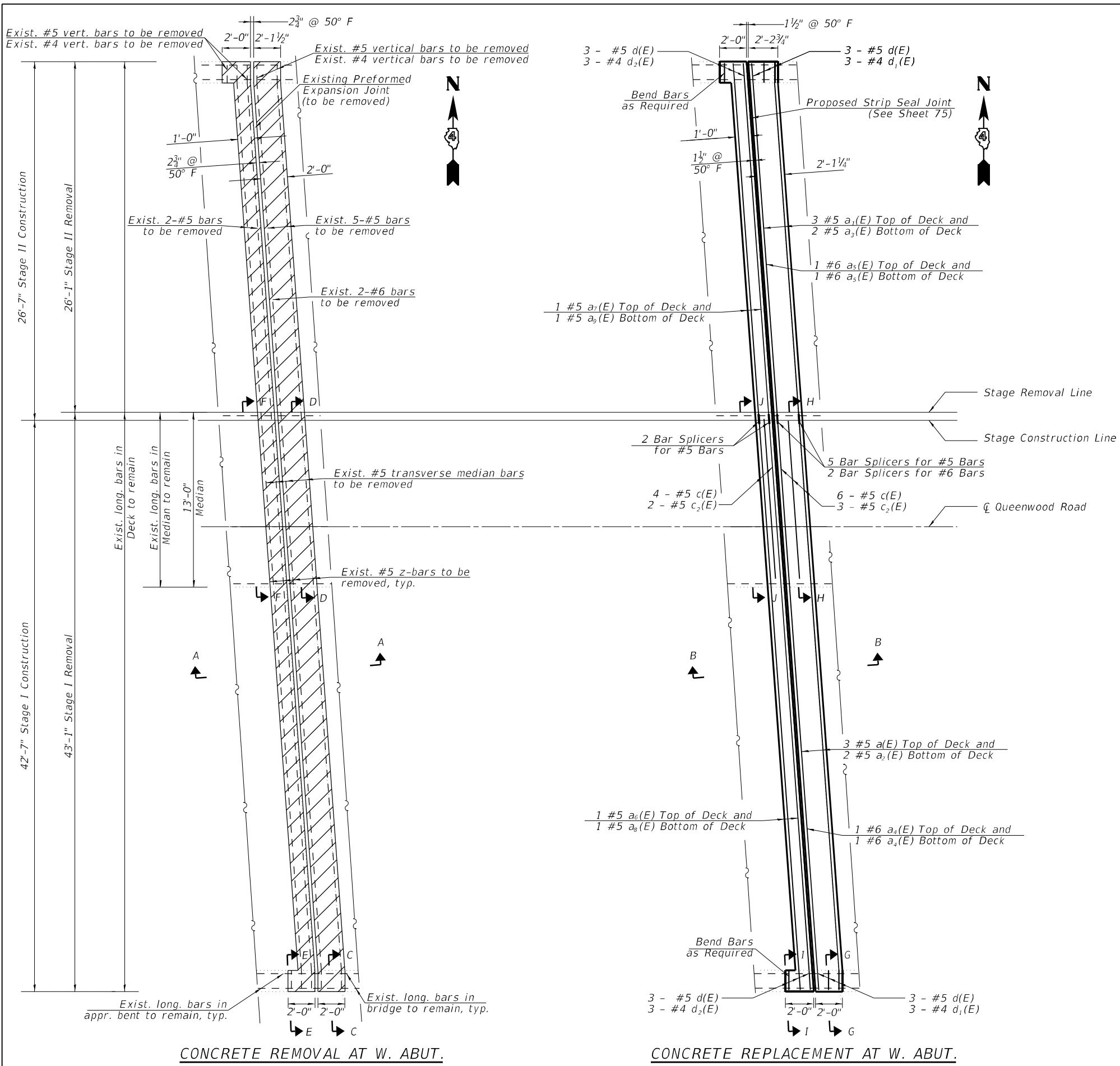
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

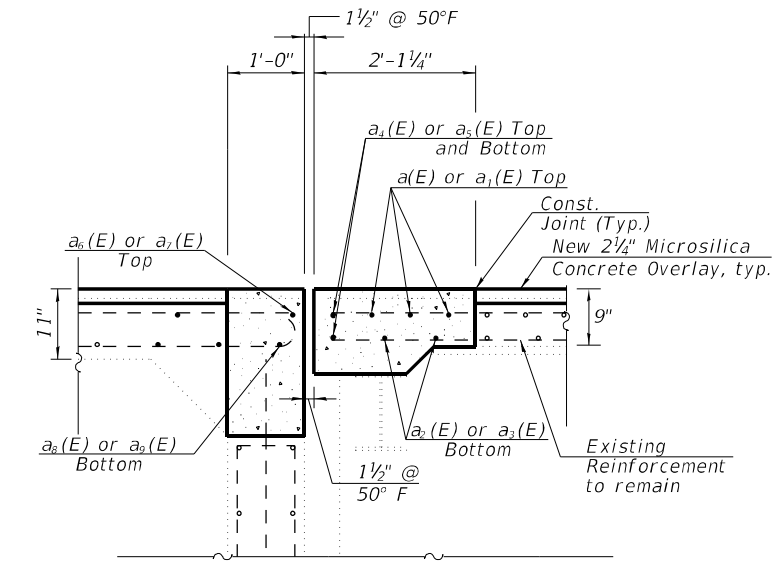
DECK REPAIR PLAN
STRUCTURE NO. 090-0130

SHEET 3 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	69
CONTRACT NO. 68H71				
		ILLINOIS	FED. AID PROJECT	



SECTION - A-A
(Dims. at Rt. L's to End of Deck)



SECTION - B-B
(Dims. at Rt. L's to End of Deck)

LEGEND

- Concrete Removal
- Bridge Deck Scarification, 3/4"
- Concrete Superstructure

NOTES

1. See Sheet 71 for sections C-C through J-J, Bar Diagrams, and Bill of Materials.

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HR Hurst-Rosche, Inc.
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

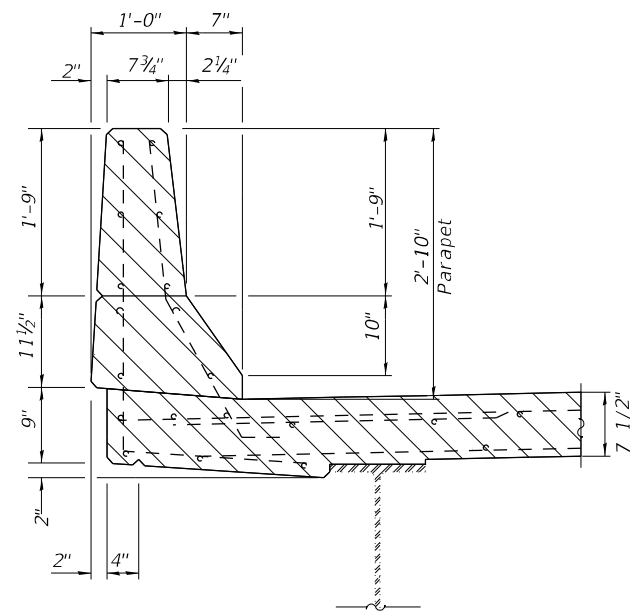
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

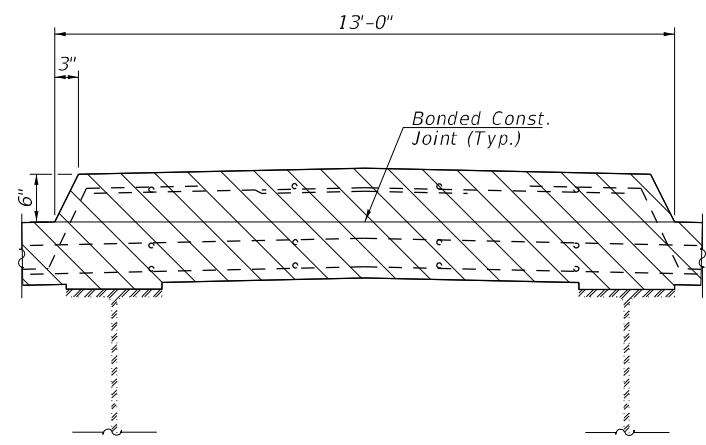
**WEST EXPANSION JOINT REMOVAL & REPLACEMENT (1 of 2)
 STRUCTURE NO. 090-0130**

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CONTRACT NO. 68H71				
ILLINOIS		FED. AID PROJECT		

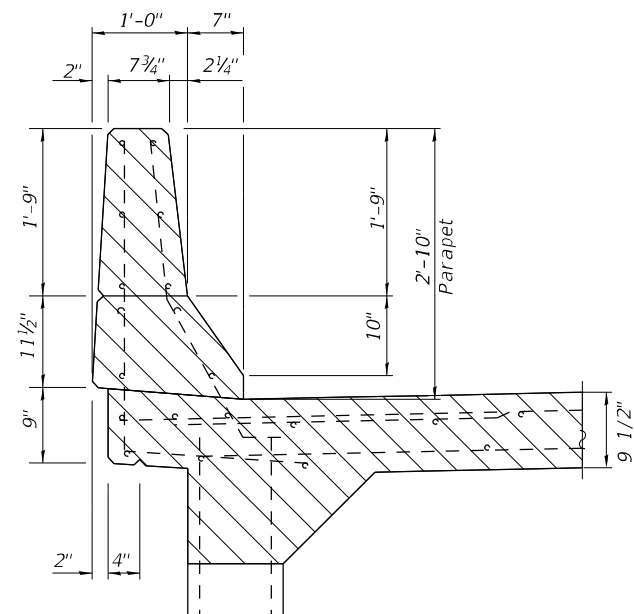
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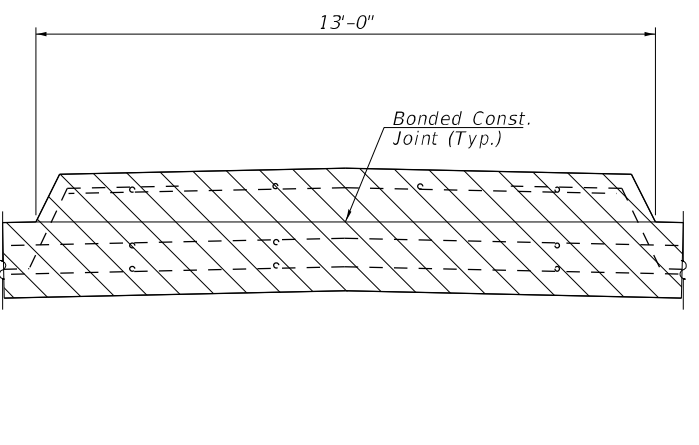
SECTION C-C



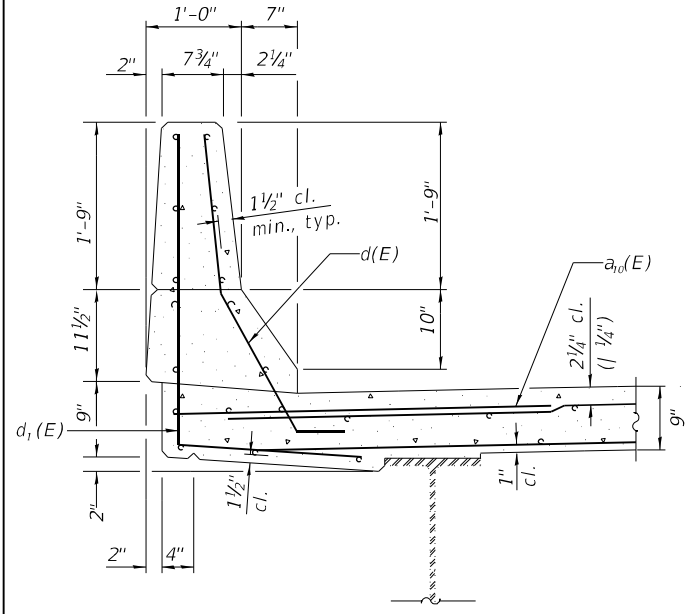
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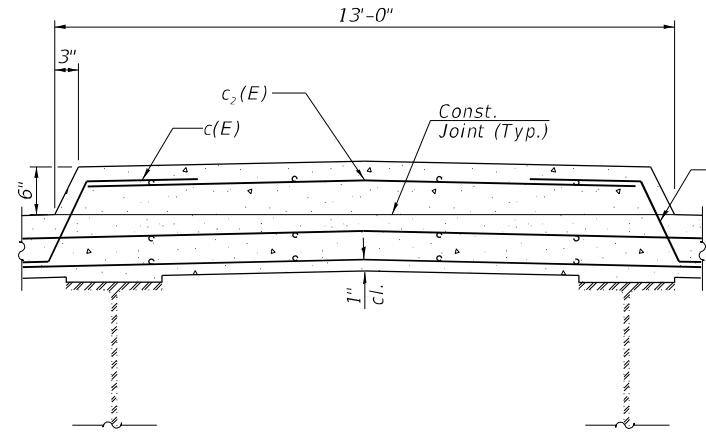
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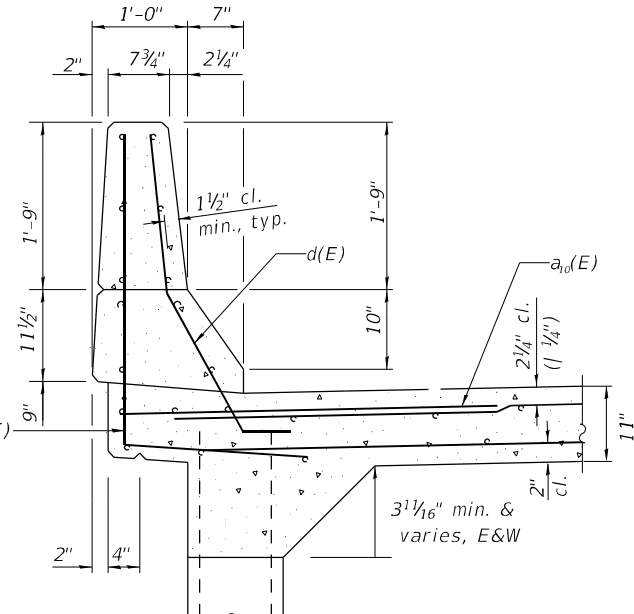
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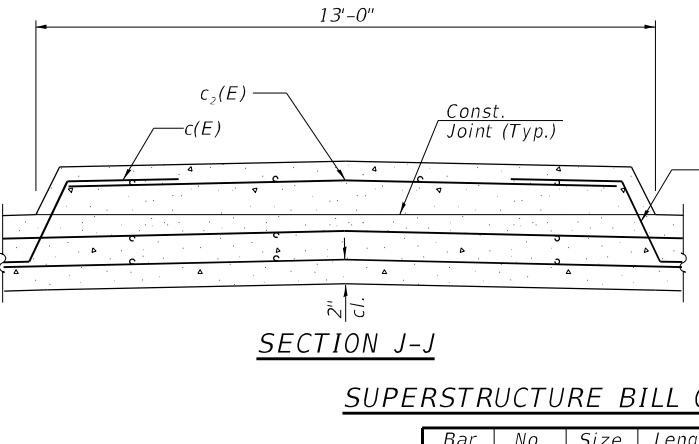
SECTION G-G



SECTION H-H



SECTION I-I



SECTION J-J

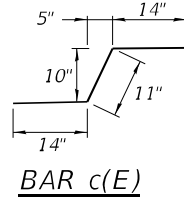
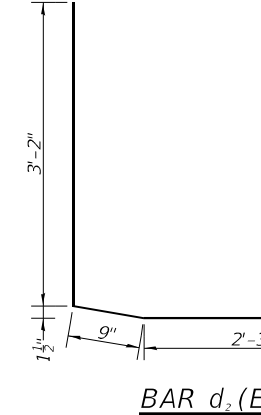
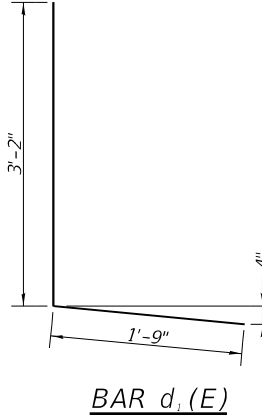
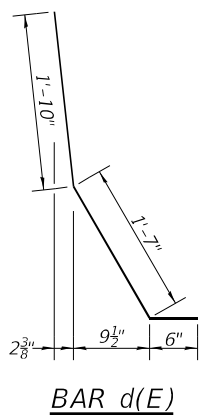
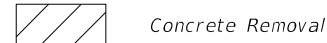
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	3	#5	41'-8"	—
a1(E)	3	#5	24'-6"	—
a2(E)	2	#5	41'-8"	—
a3(E)	2	#5	24'-6"	—
a4(E)	2	#6	41'-8"	—
a5(E)	2	#6	24'-6"	—
a6(E)	1	#5	41'-8"	—
a7(E)	1	#5	24'-6"	—
a8(E)	1	#5	41'-8"	—
a9(E)	1	#5	24'-6"	—
a10(E)	10	#6	4'-0"	—
c(E)	10	#5	3'-3"	┌
c2(E)	5	#5	12'-3"	—
d(E)	12	#5	3'-11"	┐
d1(E)	6	#4	4'-11"	┐
d2(E)	6	#4	6'-2"	┐
Reinforcement Bars, Epoxy Coated				Lbs. 935
Concrete Superstructure			Cu. Yds. 10.4	
Concrete Removal			Cu. Yds. 9.2	
Protective Coat			Sq. Yds. 6	

NOTES

- Hatched areas indicate Concrete Removal.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- Cut reinforcing bars in field to fit as required.

LEGEND



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 JOB NO. 192-1063

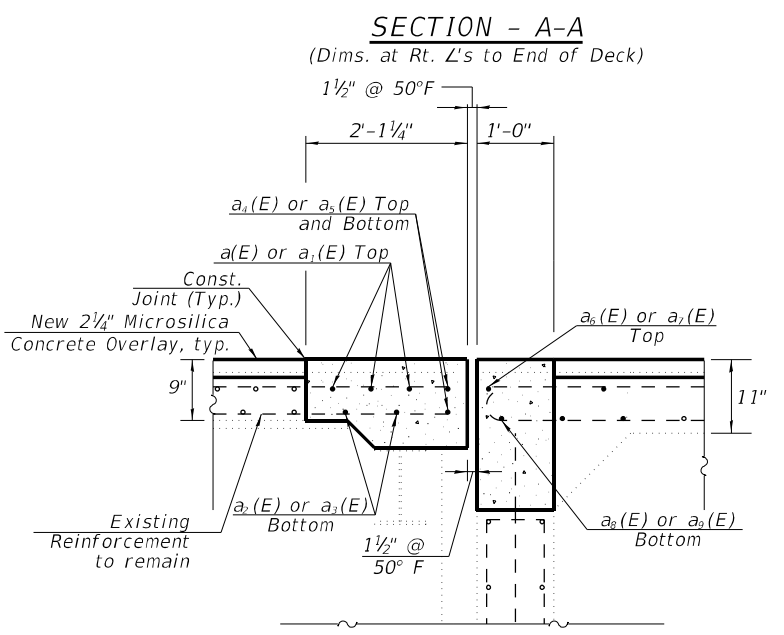
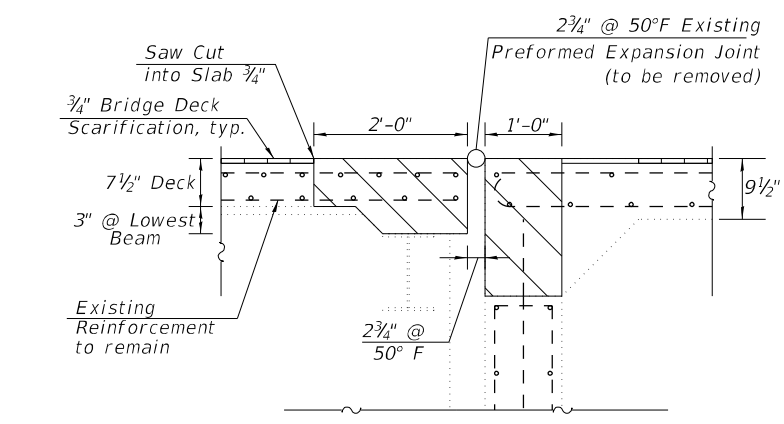
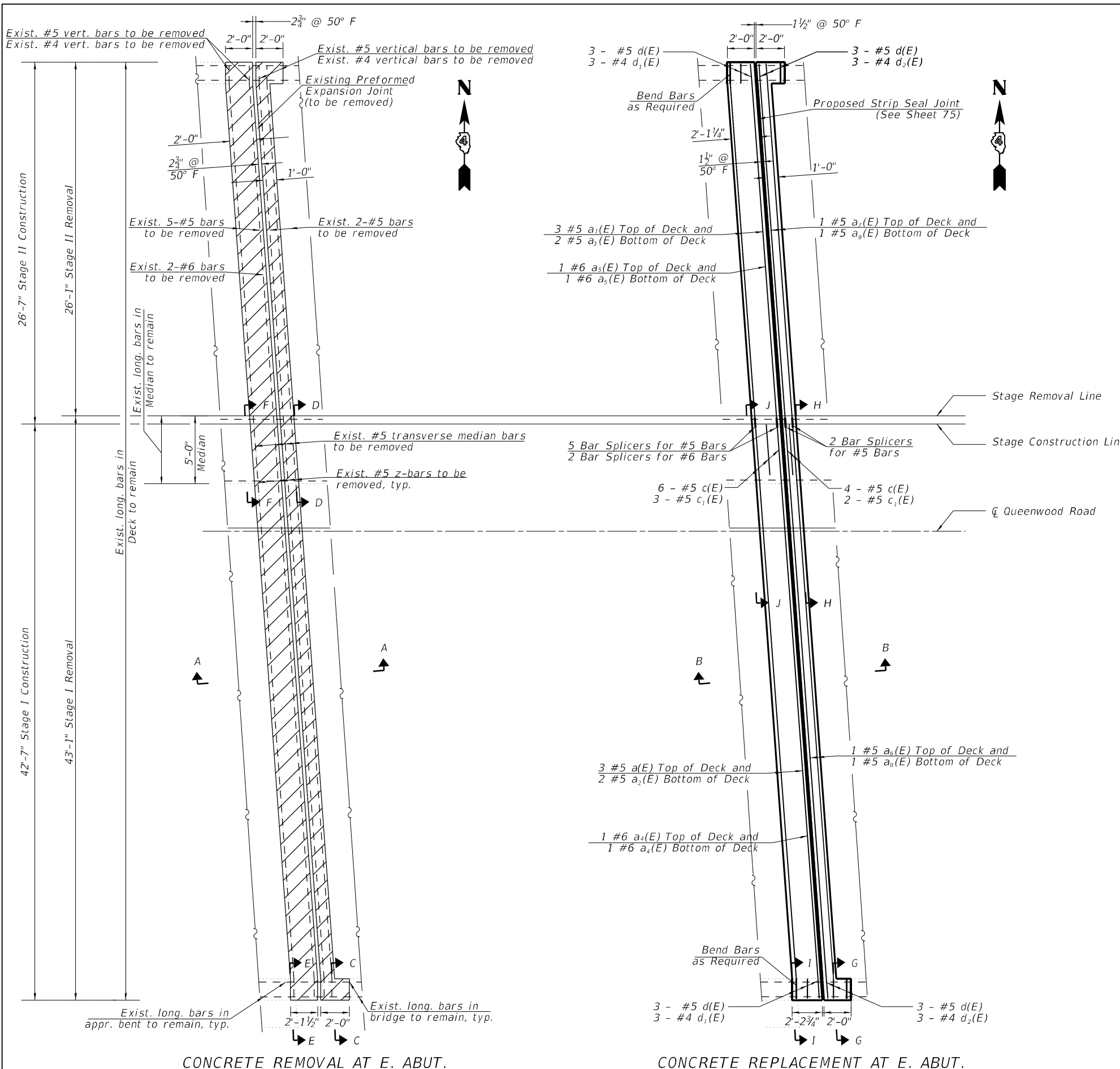
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PLOT SCALE =	CHECKED - CJC	REVISED -
PLOT DATE =	DRAWN - AE	REVISED -
	CHECKED - JJC	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST EXPANSION JOINT REMOVAL & REPLACEMENT (2 OF 2)
 STRUCTURE NO. 090-0130

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	71
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

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LEGEND

- Concrete Removal
- Bridge Deck Scarification, 3/4"
- Concrete Superstructure

NOTES

1. See Sheet 73 for sections C-C through J-J, Bar Diagrams, and Bill of Materials.

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CHECKED - CJC	CHECKED - JJC	REVISED -
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PLOT DATE =	CHECKED - JJC	REVISED -

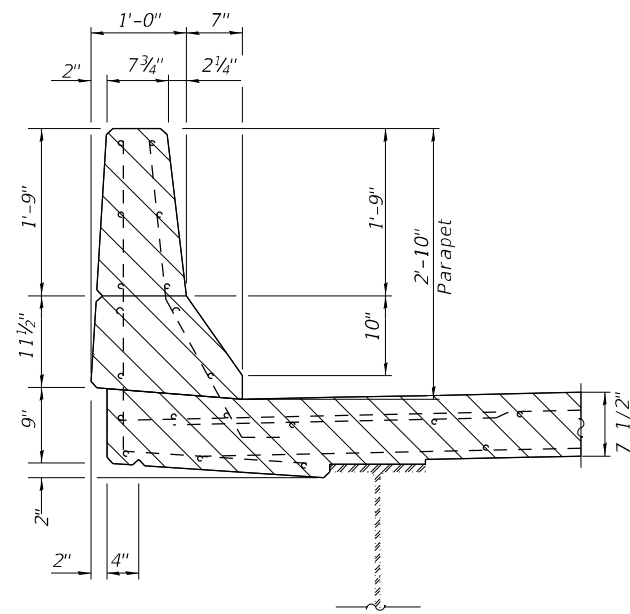
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST EXPANSION JOINT REMOVAL & REPLACEMENT (1 of 2)
STRUCTURE NO. 090-0130

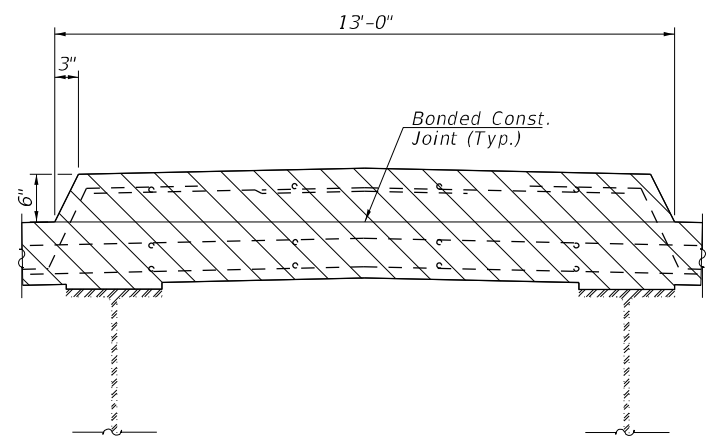
SHEET 6 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	72
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

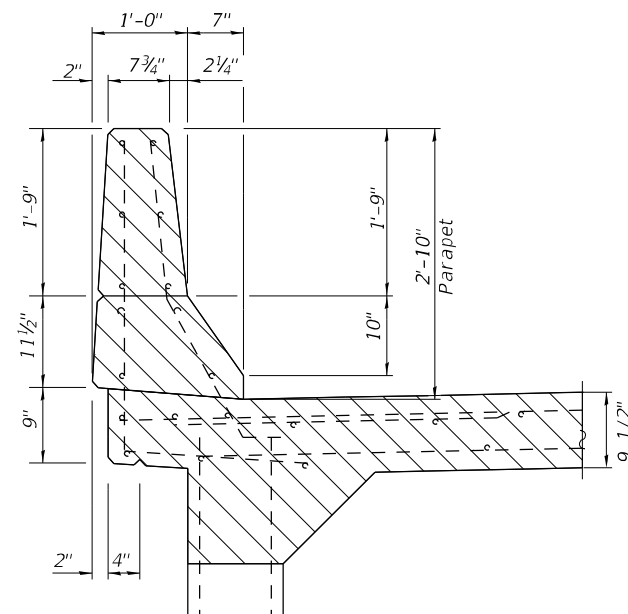
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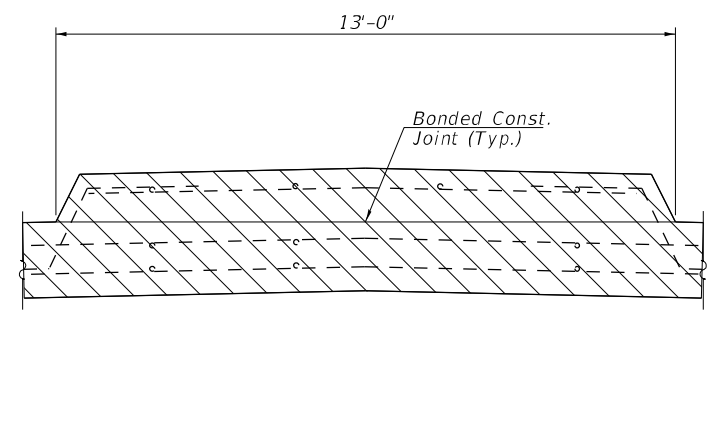
SECTION C-C



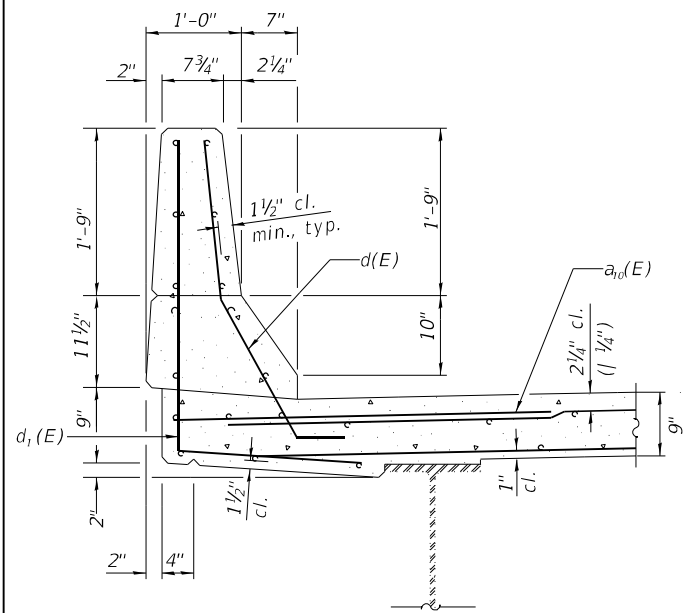
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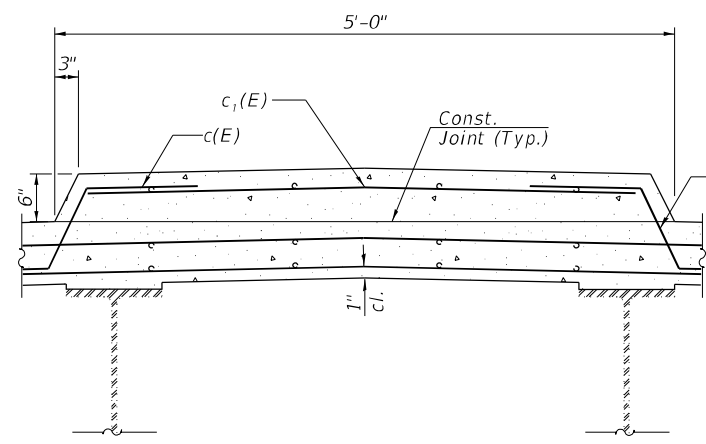
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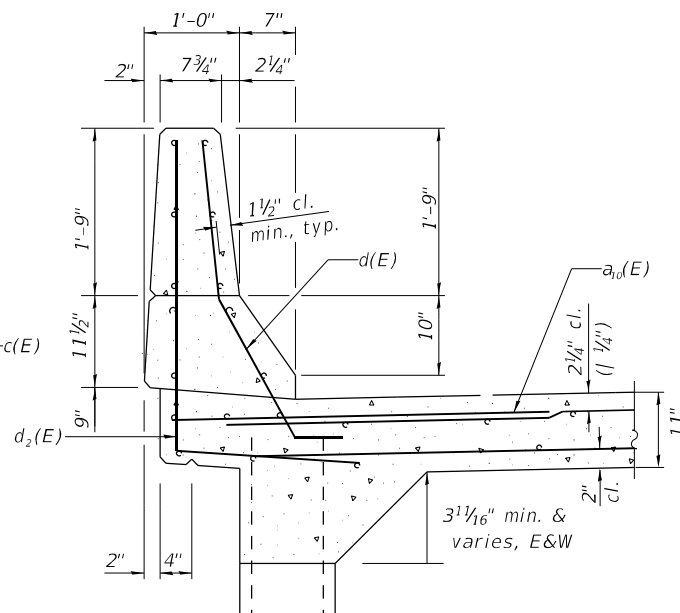
SECTION F-F



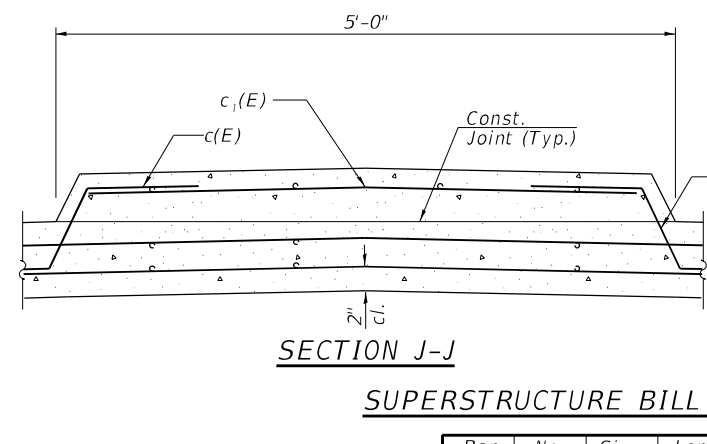
SECTION G-G



SECTION H-H



SECTION I-I



SECTION J-J

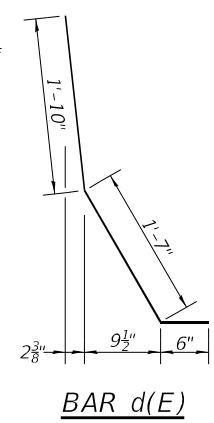
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	3	#5	41'-8"	—
a1(E)	3	#5	24'-6"	—
a2(E)	2	#5	41'-8"	—
a3(E)	2	#5	24'-6"	—
a4(E)	2	#6	41'-8"	—
a5(E)	2	#6	24'-6"	—
a6(E)	1	#5	41'-8"	—
a7(E)	1	#5	24'-6"	—
a8(E)	1	#5	41'-8"	—
a9(E)	1	#5	24'-6"	—
a10(E)	10	#6	4'-0"	—
c(E)	10	#5	3'-3"	┌
c1(E)	5	#5	4'-3"	—
d(E)	12	#5	3'-11"	┐
d1(E)	6	#4	4'-11"	┌
d2(E)	6	#4	6'-2"	┌
Reinforcement Bars, Epoxy Coated				Lbs. 895
Concrete Superstructure			Cu. Yds. 10.4	
Concrete Removal			Cu. Yds. 9.2	
Protective Coat			Sq. Yds. 6	

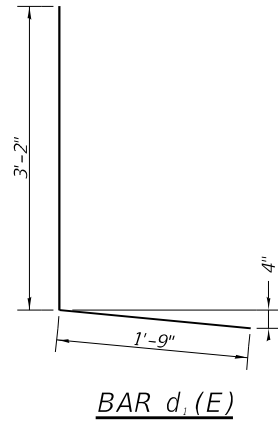
NOTES

- Hatched areas indicate Concrete Removal.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- Cut reinforcing bars in field to fit as required.

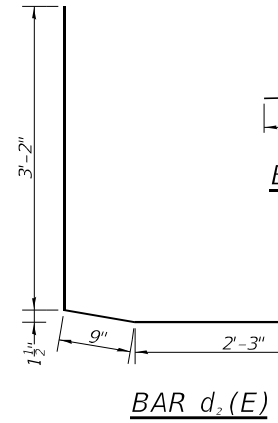
LEGEND



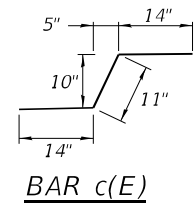
BAR d(E)



BAR d_1(E)



BAR d_2(E)



BAR c(E)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EAST EXPANSION JOINT REMOVAL & REPLACEMENT (2 OF 2)
 STRUCTURE NO. 090-0130

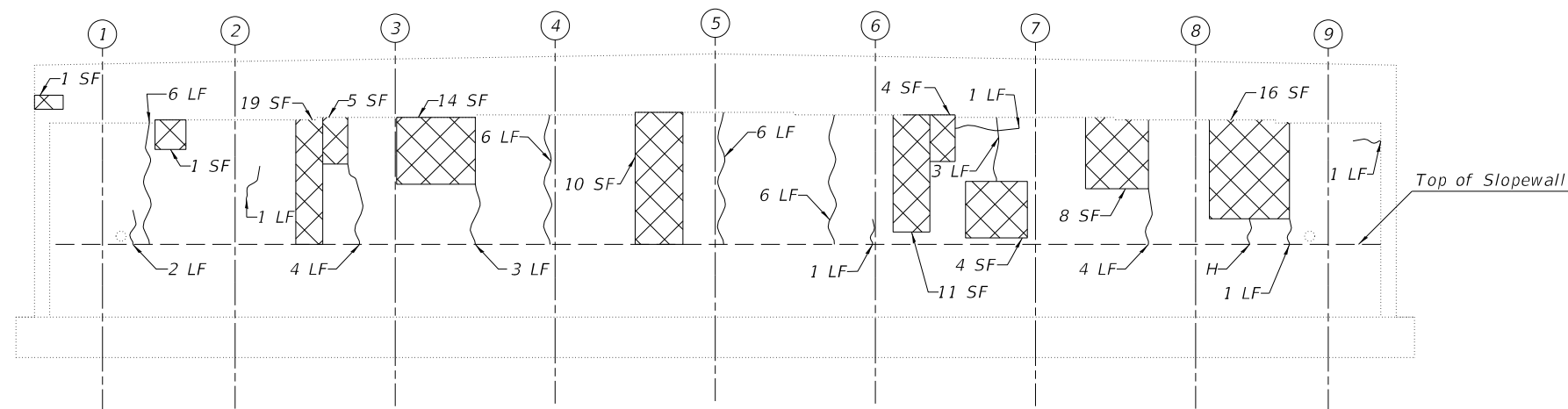
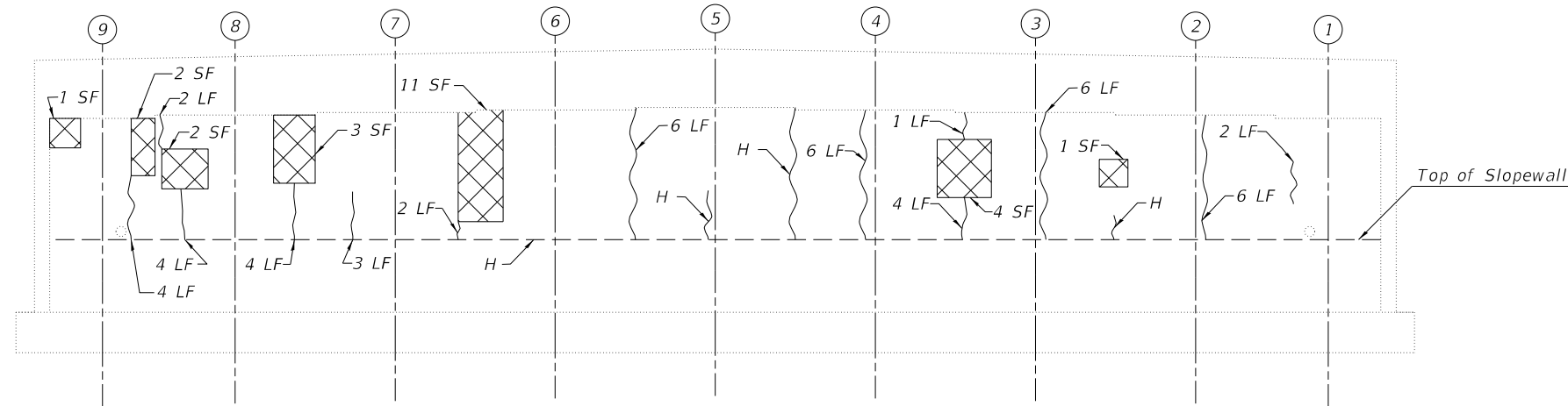
SHEET 7 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	73
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

HR Hurst-Rosche, Inc.
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

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	CHECKED - JJC	REVISED -

Notes:
 1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
 2. SF = Square Feet



LEGEND

- H Hairline Crack
- ~ Epoxy Crack Injection
- Structural Repair of Concrete (Depth Equal To or Less Than 5 inches)
- SF - Square Foot
- LF - Linear Foot

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	95
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft.	117

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 JOB NO. 192-1063

USER NAME = _____	DESIGNED - JJC	REVISED - _____
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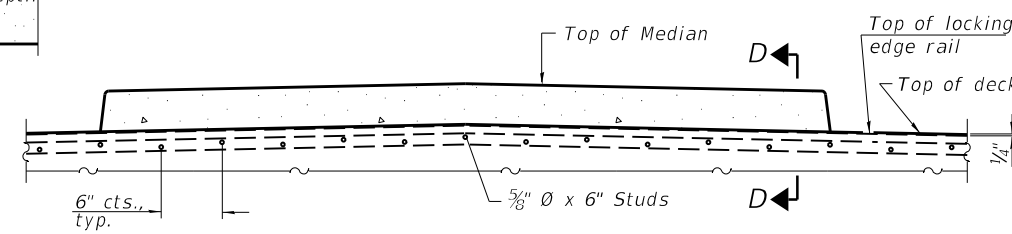
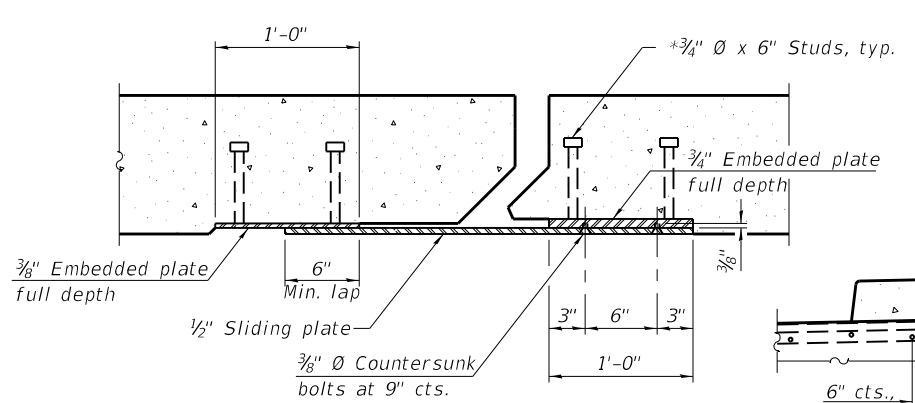
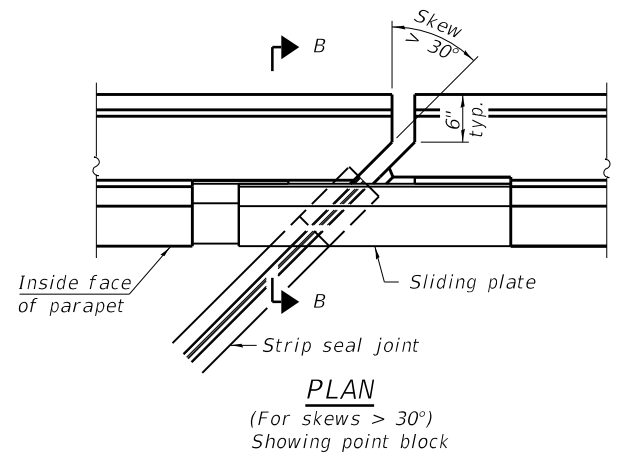
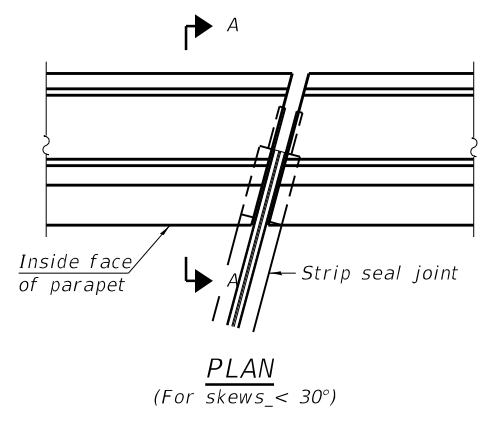
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENT REPAIR DETAILS
 STRUCTURE NO. 090-0130**

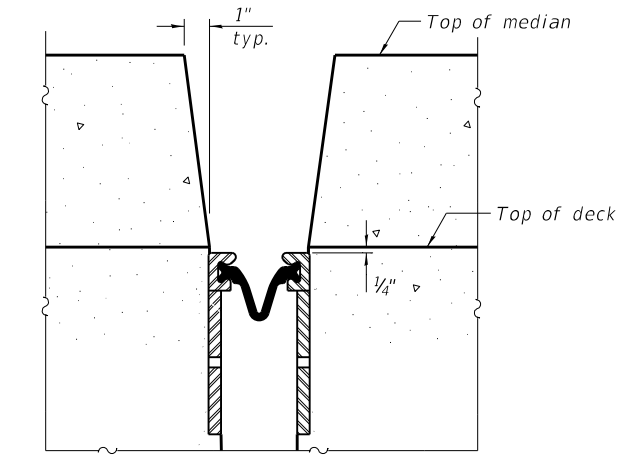
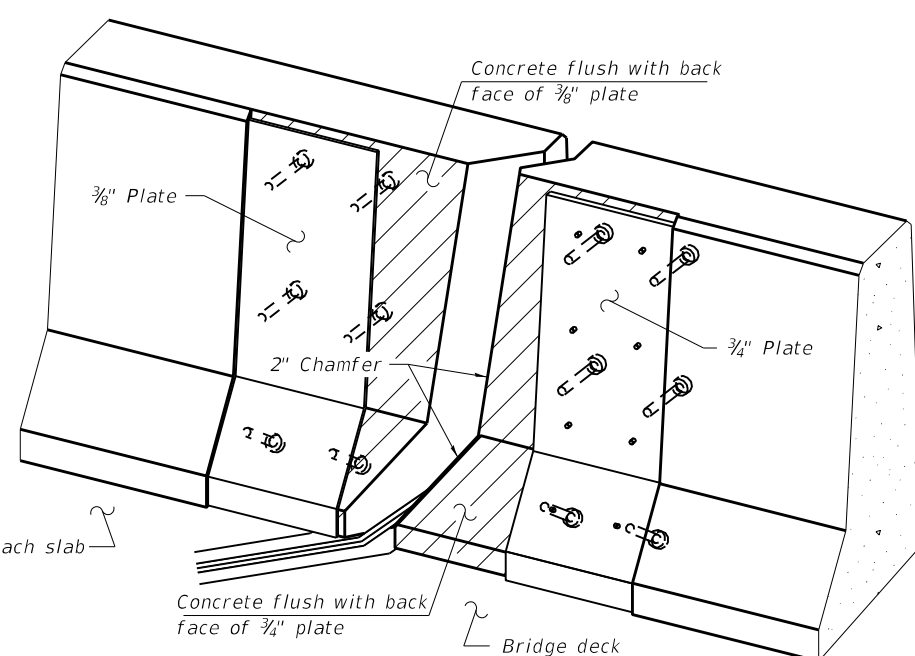
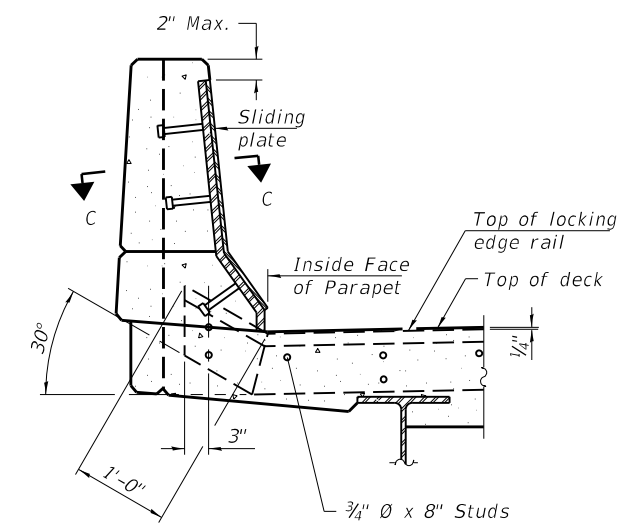
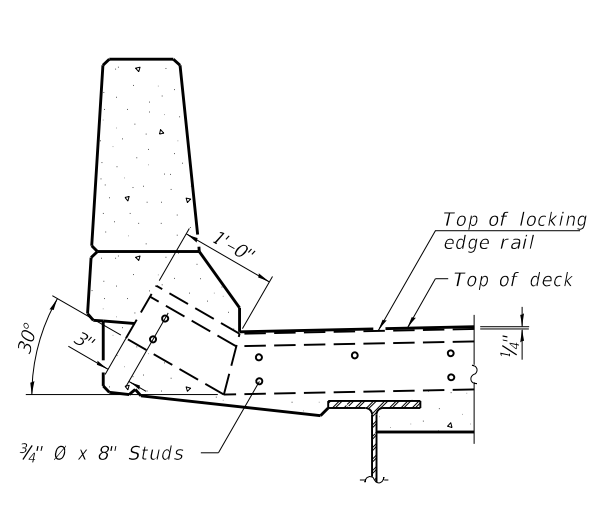
SHEET 8 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	74
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

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 2/9/2024 2:55:18 PM



SECTION AT MEDIAN
For skews > 30°, chamfer acute corners 2" similar to sidewalk.



Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

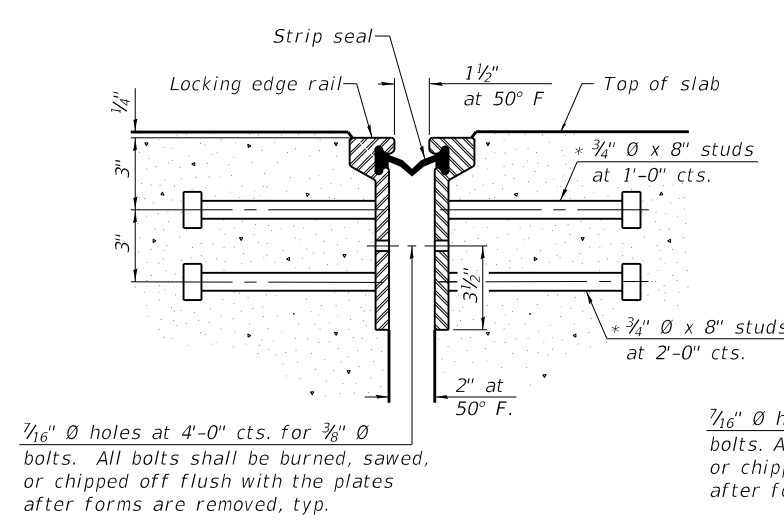
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

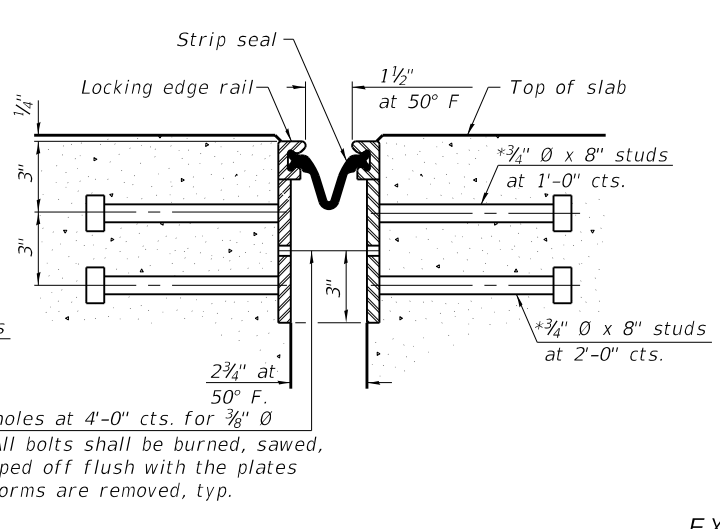
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications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

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

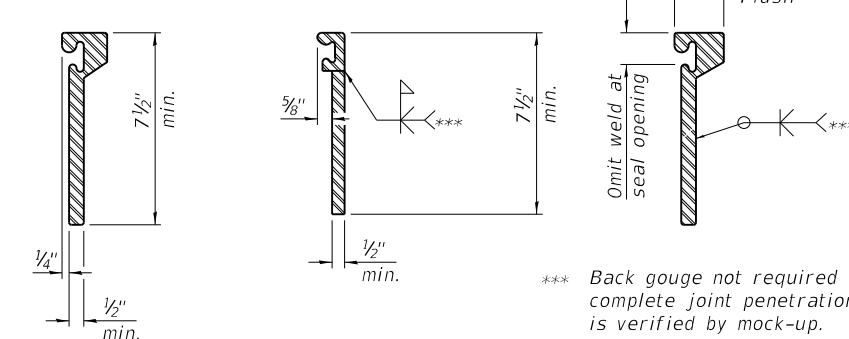
Parapet plates and anchorage studs for skews > 30° included in the cost of Prefomed Joint Strip Seal.



1/16" Ø holes at 4'-0" cts. for 3/8" Ø bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



1/16" Ø holes at 4'-0" cts. for 3/8" Ø bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



LOCKING EDGE RAILS

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
Prefomed Joint Strip Seal	Foot	139

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

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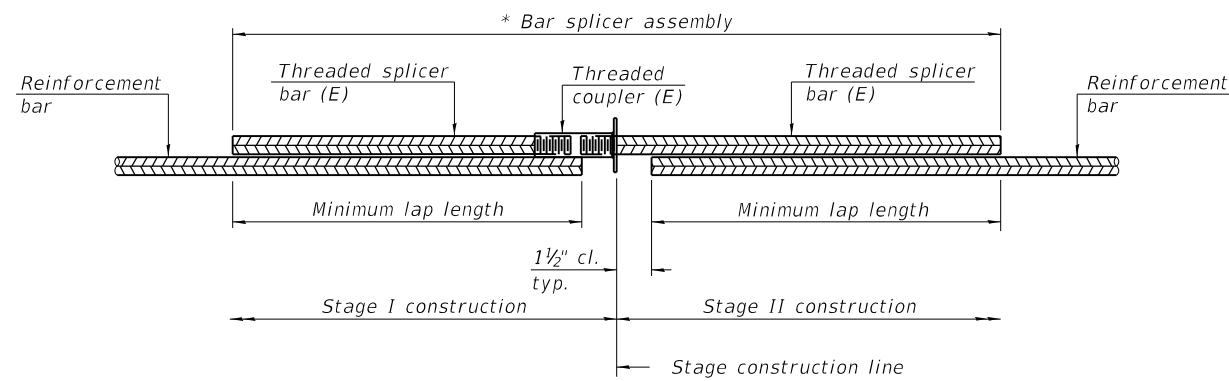
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PLOT DATE =	DRAWN - AE	REVISED -
	CHECKED - CJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 090-0130

SHEET 9 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	75
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



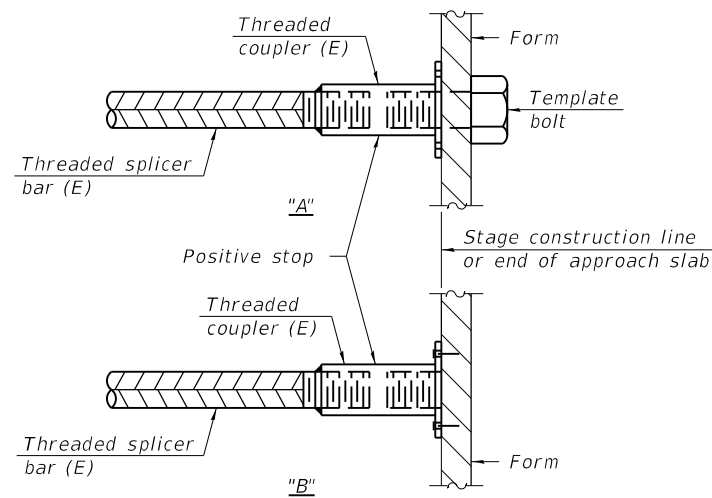
STANDARD BAR SPLICER ASSEMBLY PLAN

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

Threaded splicer bar length = min. lap length + 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
West Abutment	#5	7	3'-4"
East Abutment	#5	7	3'-4"
West Abutment	#6	2	4'-0"
East Abutment	#6	2	4'-0"

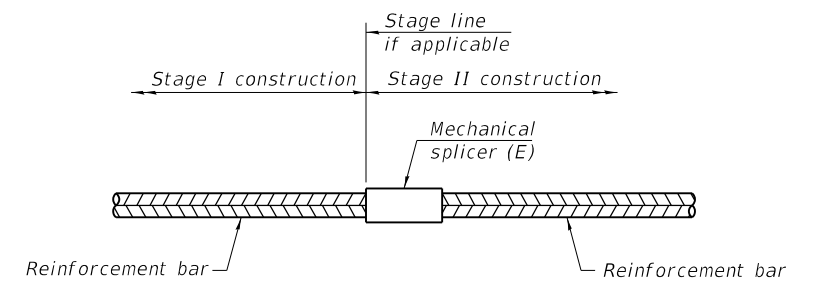


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1

2-1-2023



USER NAME =	DESIGNED - JJC	REVISED -
PLOT SCALE =	CHECKED - CJC	REVISED -
PLOT DATE =	DRAWN - RGA	REVISED -
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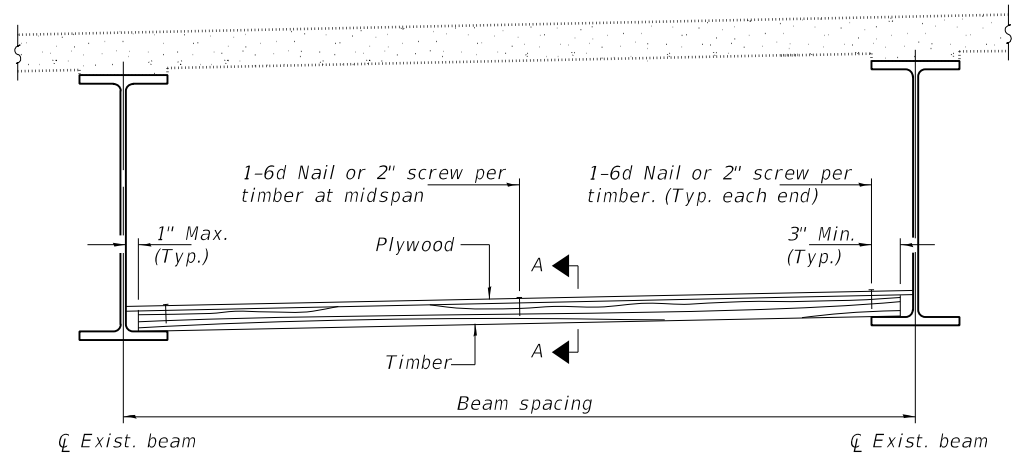
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 090-0130

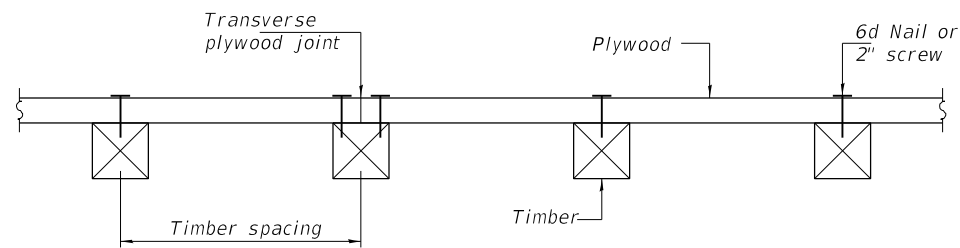
SHEET 10 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	76
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

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STEEL BEAMS



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

Notes: See special provision for Permanent Protective Shield System.

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.

The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.

The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions. All timber shall be treated.

Plywood shall be 5/8" rated Exterior type plywood by APA.

Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers.

When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.

Design load = 200 psf.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	648

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 JOB NO. 192-1063

USER NAME =	DESIGNED JJC	REVISED -
	CHECKED CJC	REVISED -
PLOT SCALE =	DRAWN AE	REVISED -
PLOT DATE =	CHECKED CJC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PERMANENT PROTECTIVE SHIELDING
 STRUCTURE NO. 090-0130**

SHEET 11 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	77
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

Benchmark:
TBM 20: R.R. Spike P.P. S.E. Corner Broadway & RTE 121, Elev. 684.53

Existing Structure No. 090-0132:

The existing structure is a two span bridge with a 7½" concrete deck supported by 42" Web Plate Girders. The structure was constructed in 1988 as Section 90-(107)HB. The superstructure is supported by closed vaulted abutments. It has an out to out deck width of 65'-2" and a 194'-10" back to back abutment length.

SCOPE OF WORK

1. Implement Traffic Control and shift EB and WB traffic to the North side of the structure
2. Install Permanent Protective Shield above the NB and SB I-155 as indicated on the plans
3. Remove Inlet Grates and Replace with RipRap Swales per civil sheets
4. Perform Bridge Deck Scarification ¾"
5. Perform Deck Slab and Concrete Median Repairs as indicated on the Plans, Fill Relief Joint Cracks as Needed
6. Perform Expansion Joint Reconstruction
7. Perform Bridge Deck Microsilica Concrete Overlay 2¼"
8. Shift EB and WB Traffic to the South Side of the Structure and repeat Items 3 through 7 above
9. Perform Abutment Repairs at locations indicated on Plans

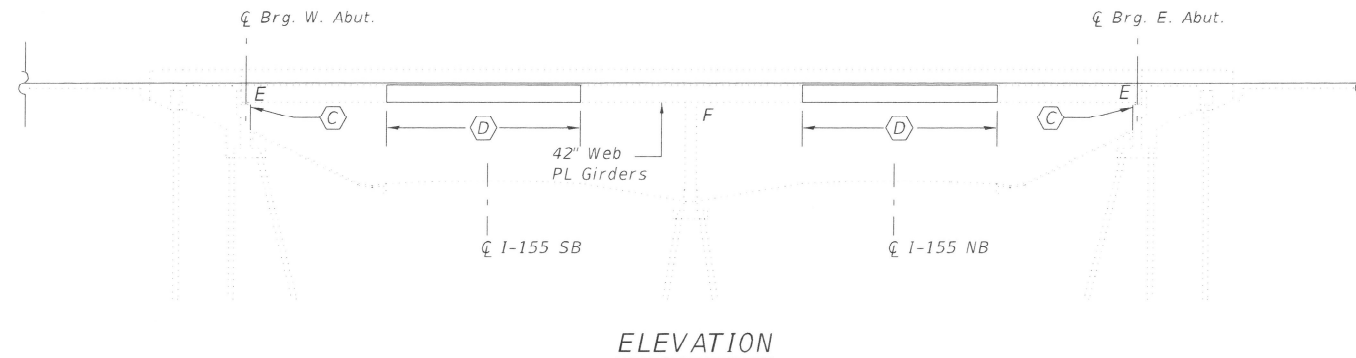
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	17.2
Concrete Structures	Cu. Yd.	6.9
Concrete Superstructure	Cu. Yd.	19.4
Bridge Deck Grooving	Sq. Yd.	2203
Protective Coat	Sq. Yd.	2375
Reinforcement Bars, Epoxy Coated	Lbs	2645
Bar Splicers	Each	18
Prefomed Joint Strip Seal	Foot	131
Epoxy Crack Injection	Foot	10
* Protective Shield (Permanent)	Sq. Yd.	612
* Surface Filler (Special)	Gallon	9
* Protective Coat (Special)	Sq. Yd.	583
* Bridge Deck Scarification ¾"	Sq. Yd.	2325
* Bridge Deck Microsilica Concrete Overlay 2¼"	Sq. Yd.	2325
* Concrete Median Repair	Sq. Ft.	85
* Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	399
* Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	40
* Slopewall Slurry Pumping	Cu. Yd.	8.4

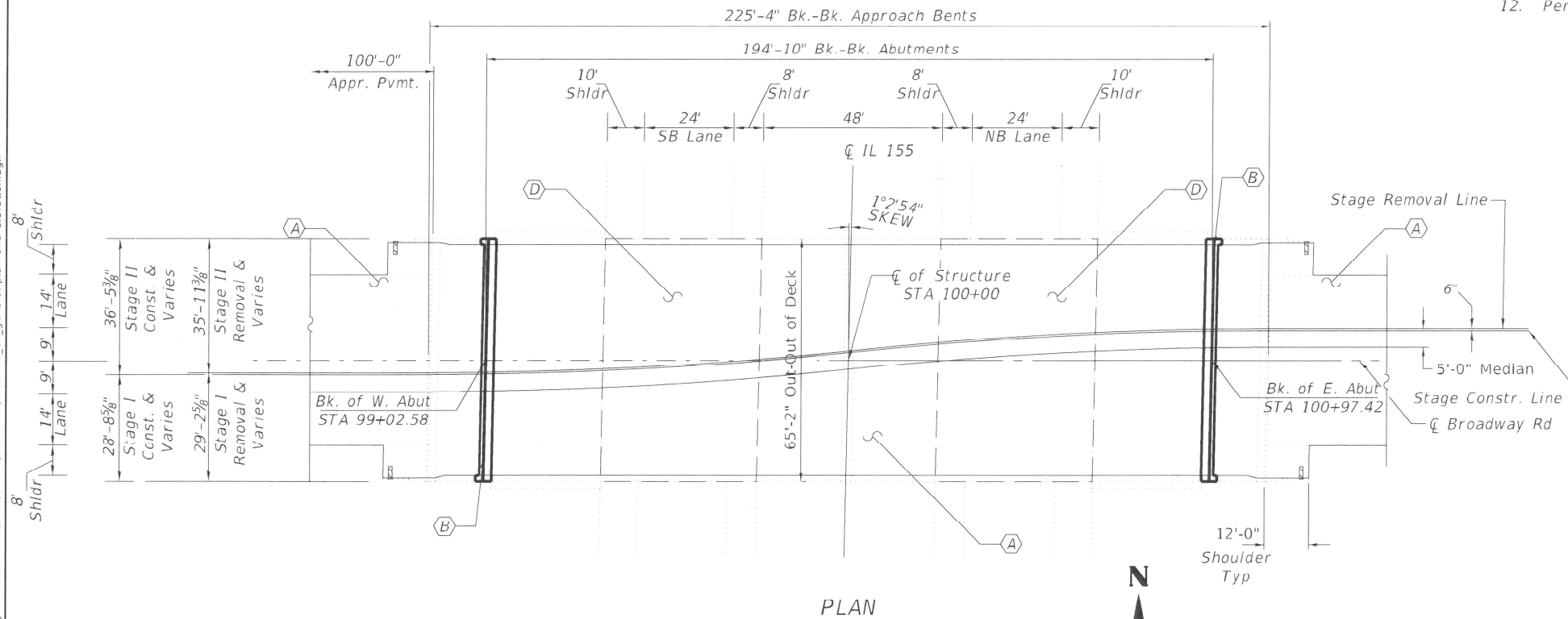
* Denotes Special Provision

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction
3. Deck Repair Plan
4. West Expansion Joint Removal & Replacement (1 of 2)
5. West Expansion Joint Removal & Replacement (2 of 2)
6. East Expansion Joint Removal & Replacement (1 of 2)
7. East Expansion Joint Removal & Replacement (2 of 2)
8. West Abutment Repair Details
9. East Abutment Repair Details
10. Prefomed Joint Strip Seal
11. Bar Splice Assembly and Mechanical Splicers Details
12. Permanent Protective Shield



ELEVATION



PLAN

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck for expansion joint reconstruction and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose 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 paid for according to Article 109.04 of the Standard Specifications.

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 penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding ¼ in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

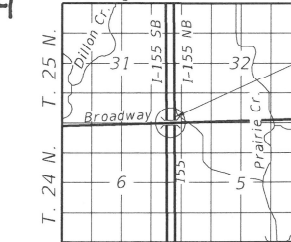
Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variation shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

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

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.

Range 3W, 3rd P.M.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
BROADWAY ROAD
OVER I-155
TAZEWELL COUNTY
STATION 100+00.00
STRUCTURE NO. 090-0132

KEYED NOTES

- (A) Bridge Deck Scarification ¾" and 2¼" Microsilica Concrete Overlay
- (B) Expansion Joint Replacement
- (C) Structural Repair of Abutments
- (D) Permanent Protective Shielding

LEGEND

- Expansion Joint Replacement
- Limits of ¾" Scarification and 2¼" Microsilica Concrete Overlay
- Limits of Protective Shield (Permanent)

Date: 2/9/24

 CHASE J. CONNOR, P.E., S.E.
 ILLINOIS STRUCTURAL NO. 7200
 EXPIRES: NOVEMBER 30, 2024

GENERAL PLAN & ELEVATION
STRUCTURE NO. 090-0132

SHEET 1 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	78

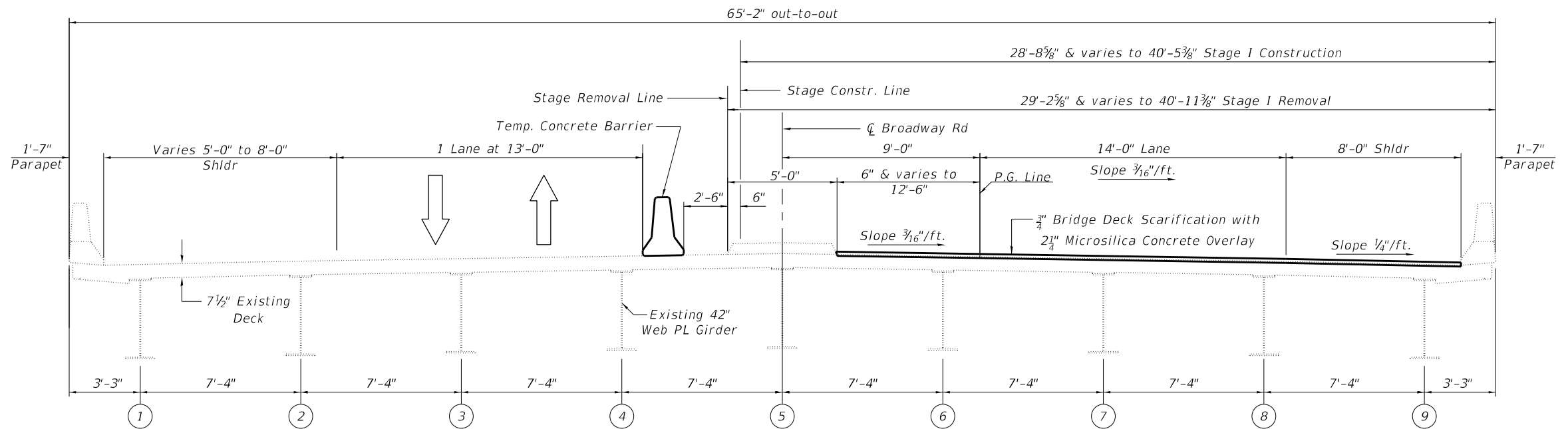
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

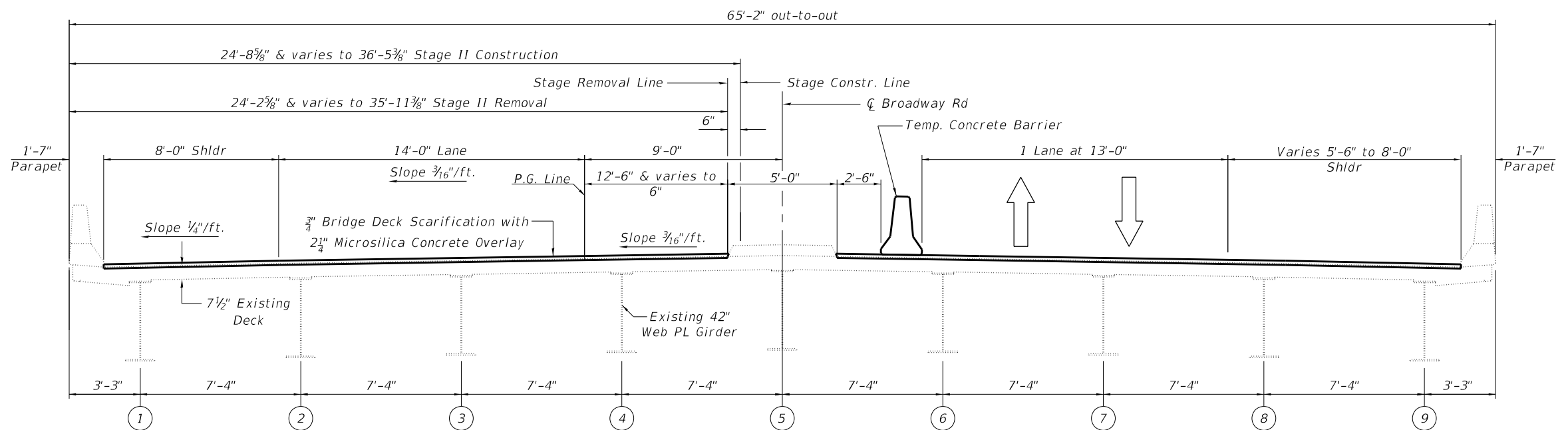
HR
Hurst-Rosche, Inc.
PROFESSIONAL CORPORATION
1400 E. TREMONT ST.
HILLSBORO, IL
PH: 217.532.3959
JOB NO. 192-1063

USER NAME =	DESIGNED -	REVISIONS
	JJC	
	CJC	
	RGA	
	CJC	

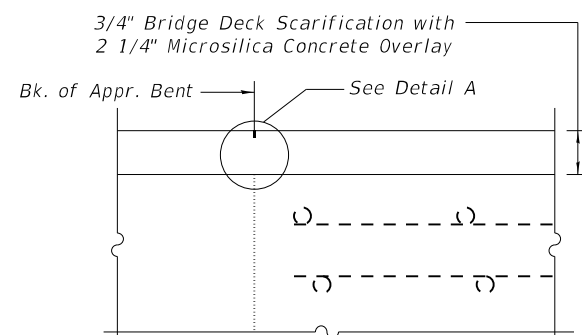
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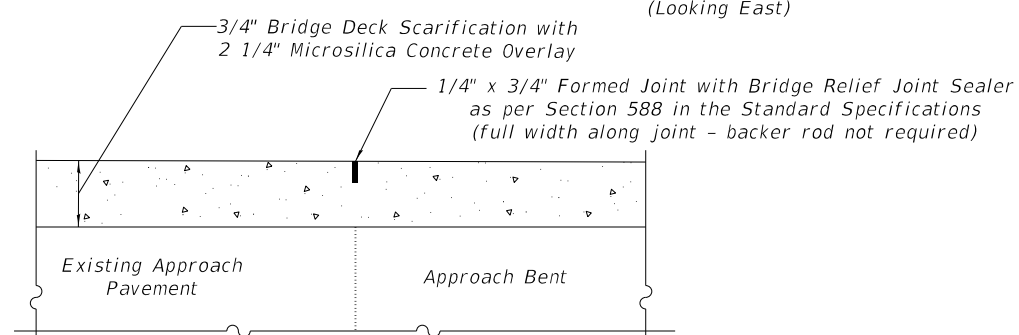
STAGE I REMOVAL AND CONSTRUCTION
(Looking East)



STAGE II REMOVAL AND CONSTRUCTION
(Looking East)



SECTION AT APPROACH



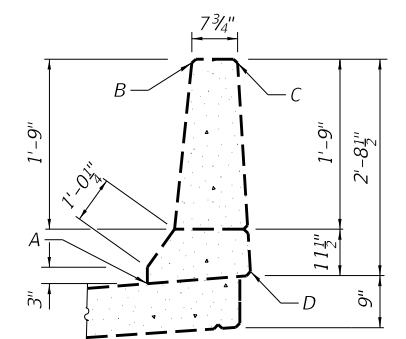
DETAIL A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Surface Filler (Special)	Gallon	9
Protective Coat (Special)	Sq. Yd.	583

NOTES

1. Surface Filler (Special) and Protective Coat (Special) shall be applied per the Special Provisions.
2. Protective Coat (Special) to cover from Point A through Points B, C and D of the Parapet.



PARAPET SEALING DETAIL

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PLOT DATE =	DRAWN - AE	REVISED -
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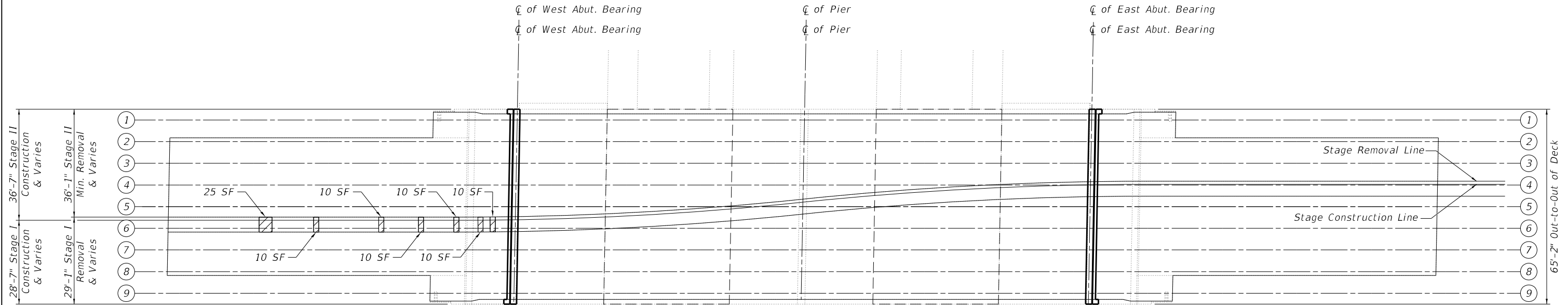
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION
STRUCTURE NO. 090-0132**

SHEET 2 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	79
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

- Notes:
1. Locations and dimensions shown are approximate. The Engineer will determine final patch locations and quantities 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. All Concrete Median Repair is to occur during stage I as shown in the plans.
 4. SF = Square Feet



LEGEND



Concrete Median Repair



Limits of Protective Shielding (Permanent)

DECK REPAIR PLAN

BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq. Yd.	2375
Protective Shield (Permanent)	Sq. Yd.	612
Bridge Deck Scarification	Sq. Yd.	2325
Bridge Deck Microsilica Overlay	Sq. Yd.	2325
Concrete Median Repair	Sq. Ft.	85

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	CHECKED - CJC	REVISED -
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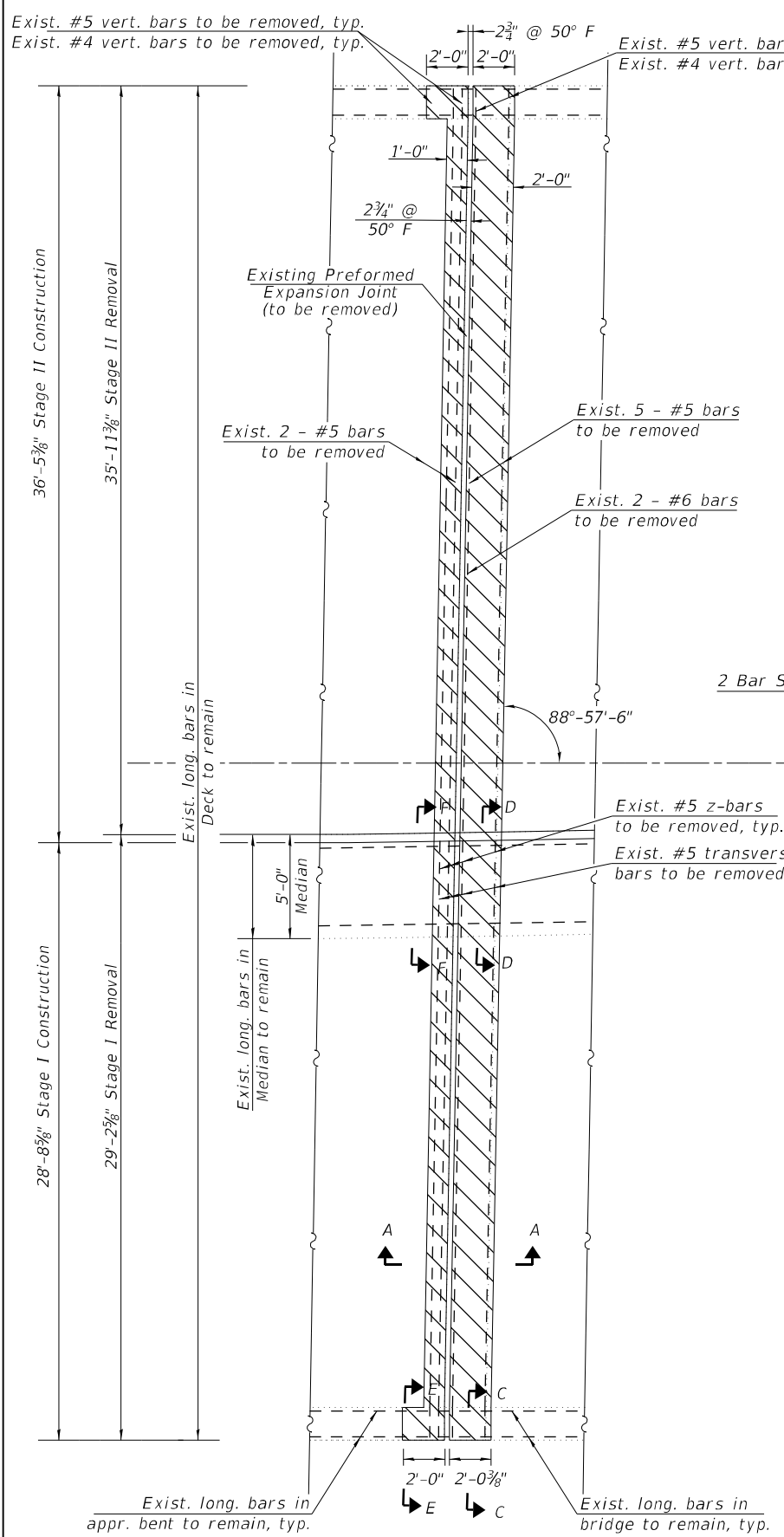
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DECK REPAIR PLAN
 STRUCTURE NO. 090-0132

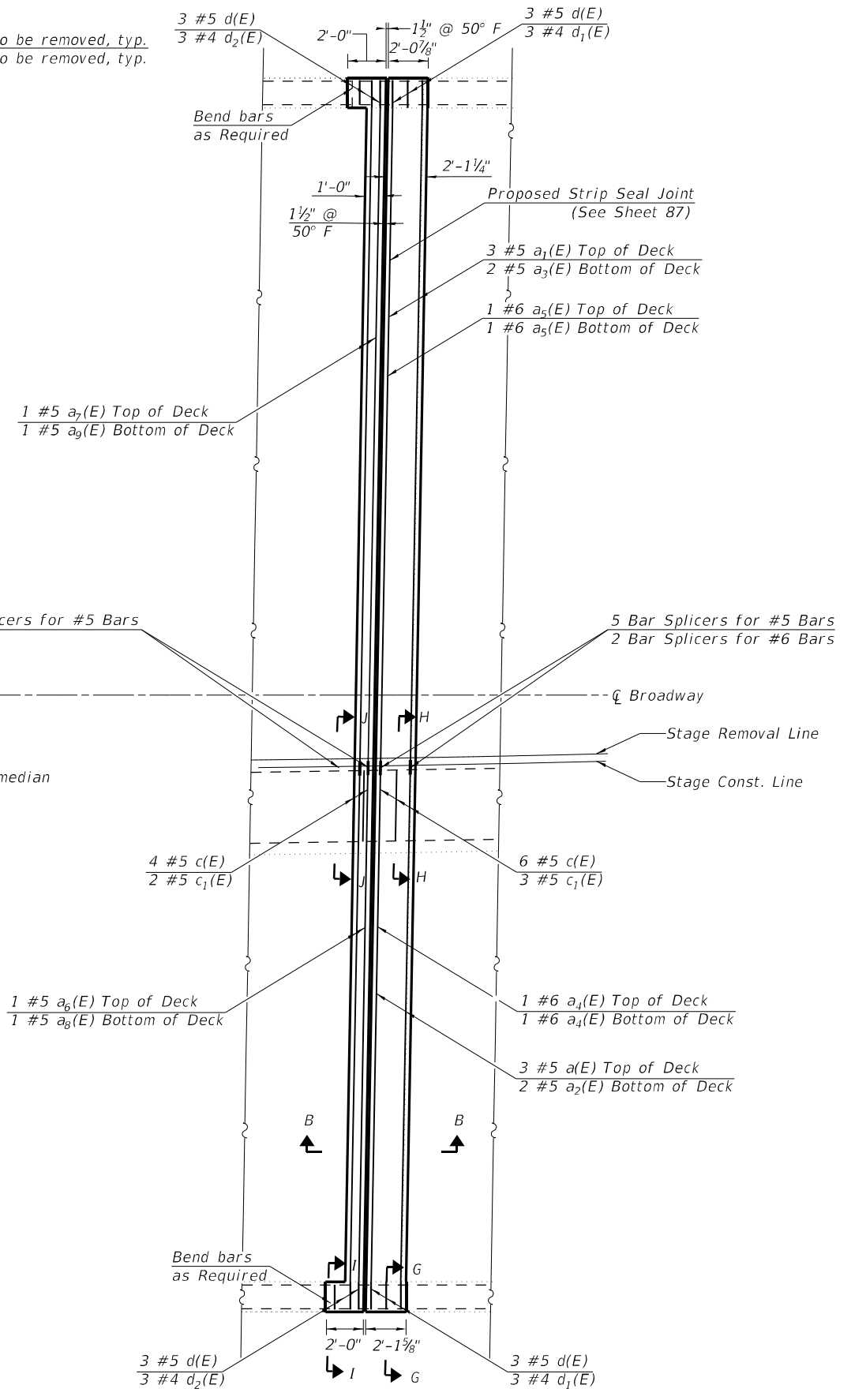
SHEET 3 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	80
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

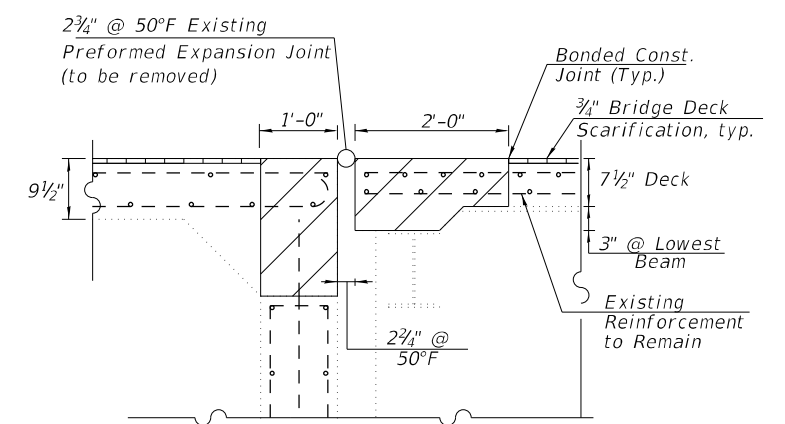
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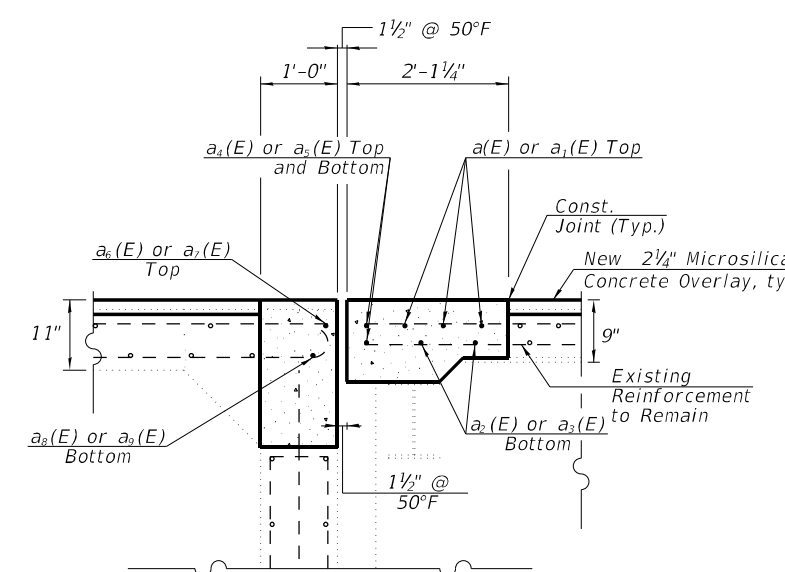
CONCRETE REMOVAL AT W. ABUT.



CONCRETE REPLACEMENT AT W. ABUT.



SECTION - A-A
(Dims. at Rt. L's to End of Deck)



SECTION - B-B
(Dims. at Rt. L's to End of Deck)

LEGEND

- Concrete Removal
- Bridge Deck Scarification, 3/4"
- Concrete Superstructure

NOTES

1. See Sheet 82 for sections C-C through J-J, Bar Diagrams, and Bill of Materials.

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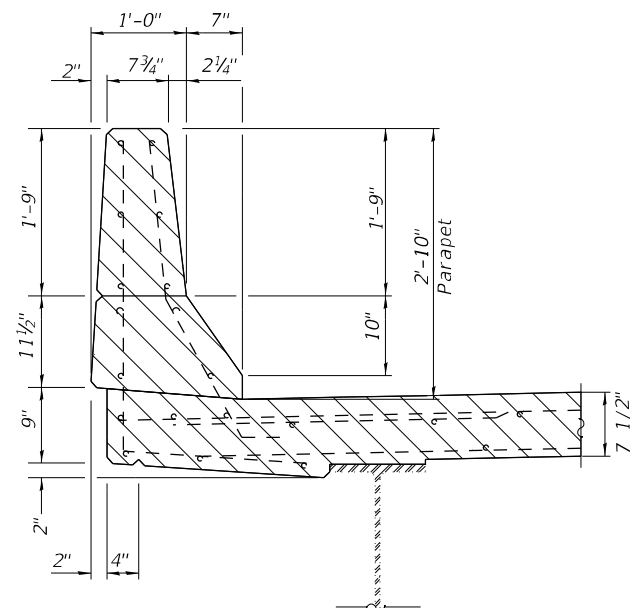
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

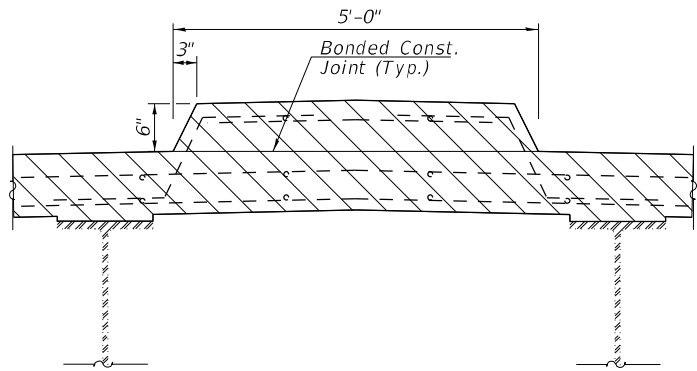
**WEST EXPANSION JOINT REMOVAL & REPLACEMENT (1 of 2)
 STRUCTURE NO. 090-0132**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	81
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

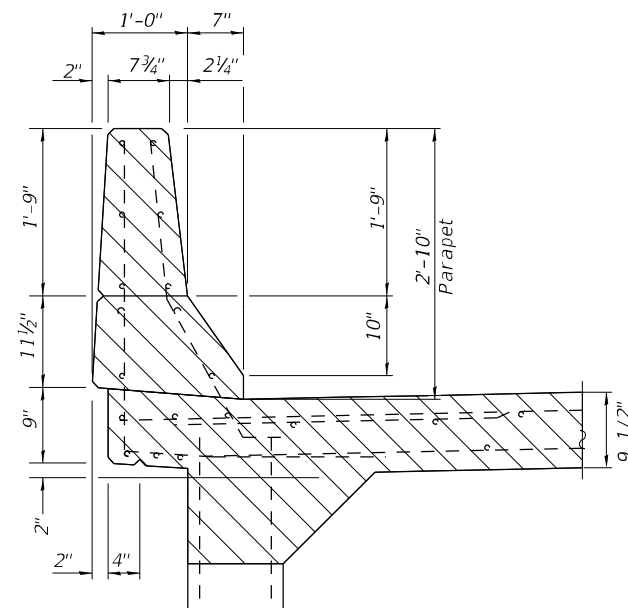
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SECTION C-C

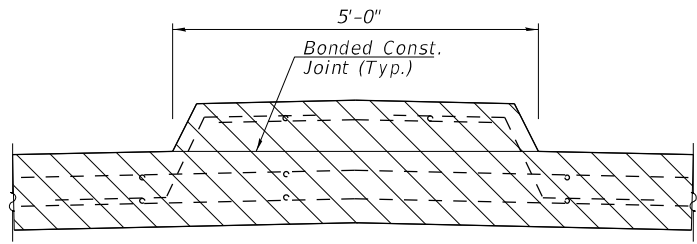


SECTION D-D



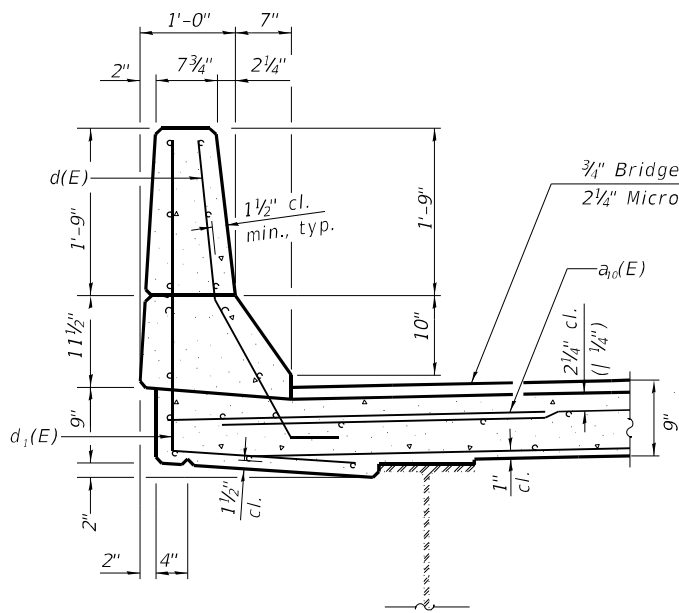
SECTION E-E

(At Approach Bent)

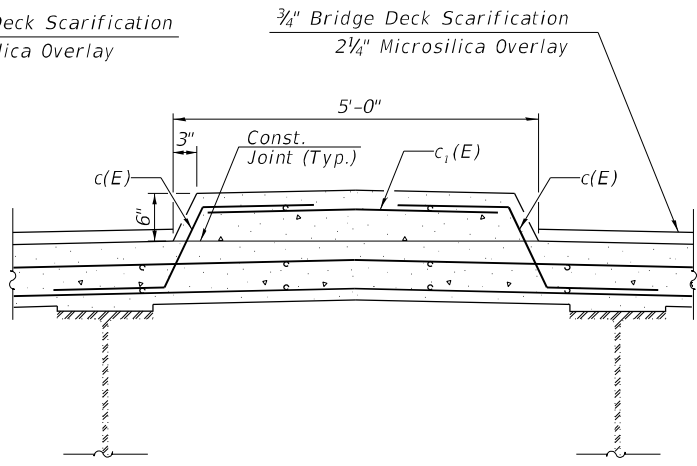


SECTION F-F

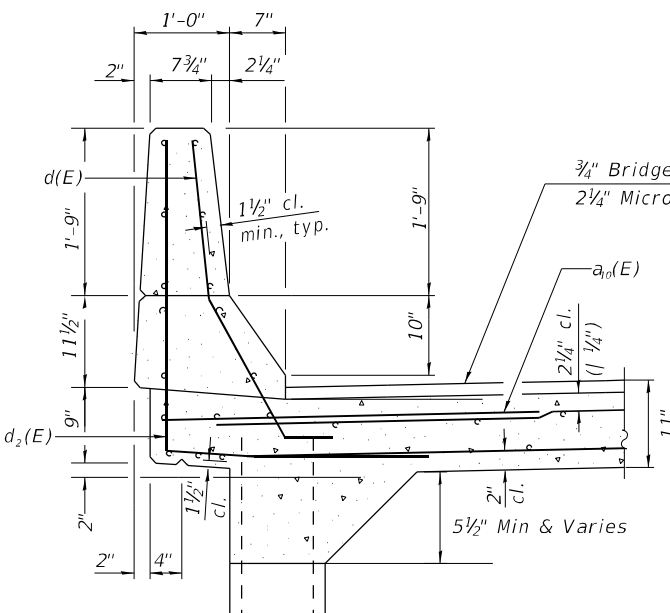
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SECTION G-G

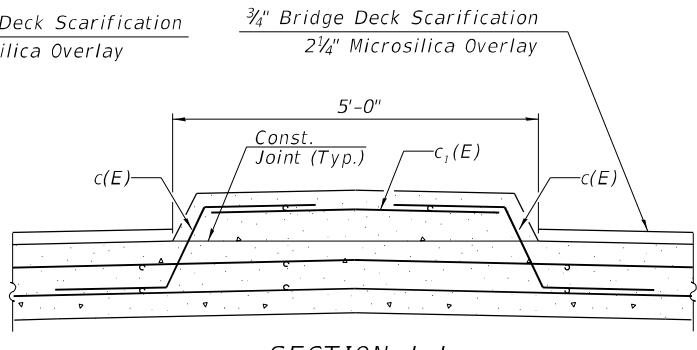


SECTION H-H



SECTION I-I

(At Approach Bent)



SECTION J-J

(At Approach Bent)

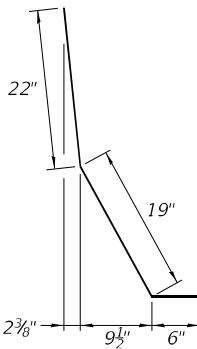
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	3	#5	28'-8"	—
a1(E)	3	#5	36'-4"	—
a2(E)	2	#5	28'-8"	—
a3(E)	2	#5	36'-4"	—
a4(E)	2	#6	28'-8"	—
a5(E)	2	#6	36'-4"	—
a6(E)	1	#5	28'-8"	—
a7(E)	1	#5	36'-4"	—
a8(E)	1	#5	28'-8"	—
a9(E)	1	#5	36'-4"	—
a10(E)	10	#6	4'-0"	—
c(E)	10	#5	3'-2"	—
c1(E)	5	#5	4'-3"	—
d(E)	12	#5	3'-11"	—
d1(E)	6	#4	5'-6"	—
d2(E)	6	#4	6'-2"	—
Reinforcement Bars, Epoxy Coated			Lbs.	885
Concrete Superstructure			Cu. Yds.	9.7
Concrete Removal			Cu. Yds.	8.6

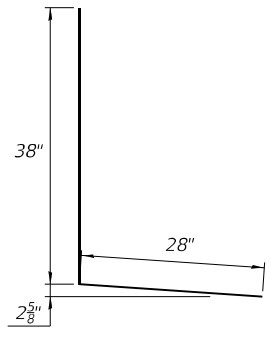
NOTES

- Hatched areas indicate Concrete Removal.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- Cut reinforcing bars in field to fit as required.

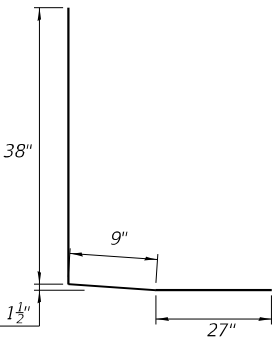
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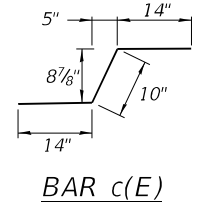
BAR d(E)



BAR d_1(E)



BAR d_2(E)



BAR c(E)

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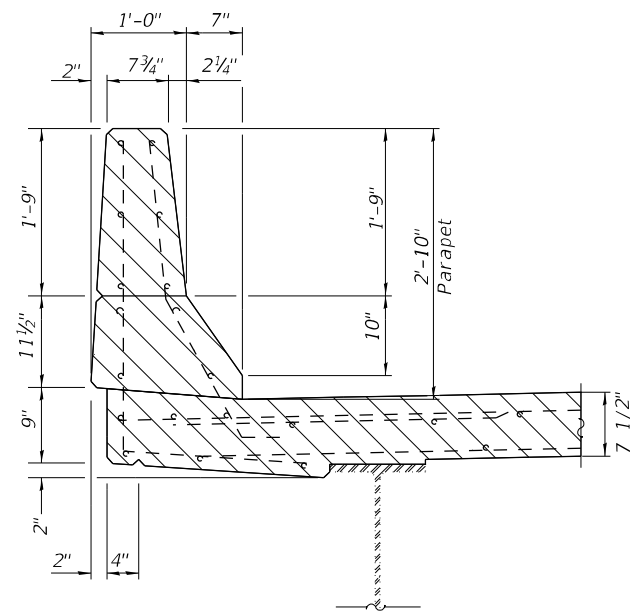
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST EXPANSION JOINT REMOVAL & REPLACEMENT (2 of 2)
 STRUCTURE NO. 090-0132

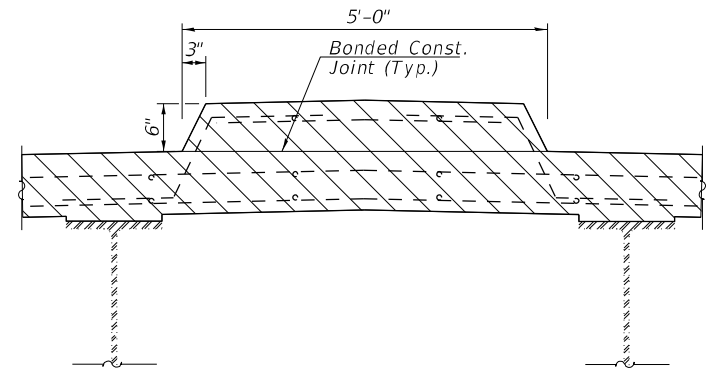
SHEET 5 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	82
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

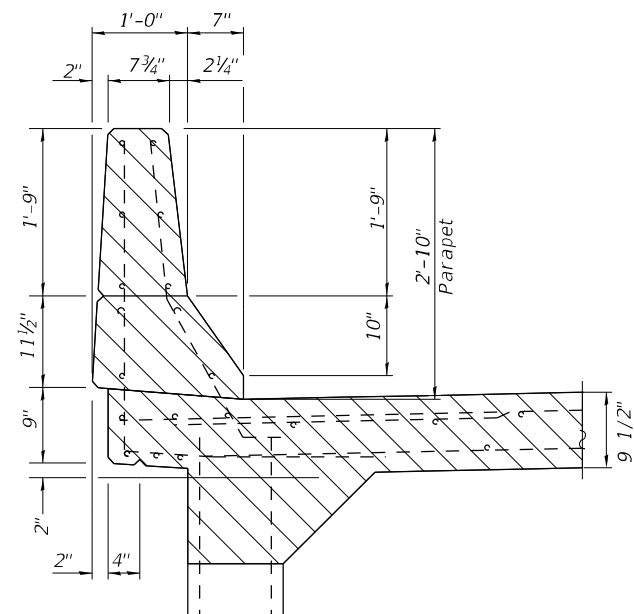
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SECTION C-C

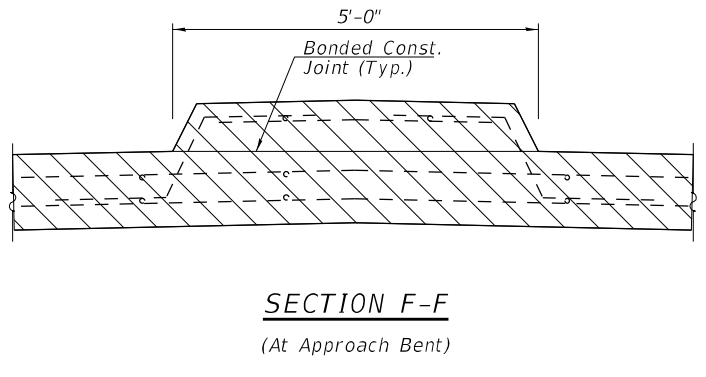


SECTION D-D



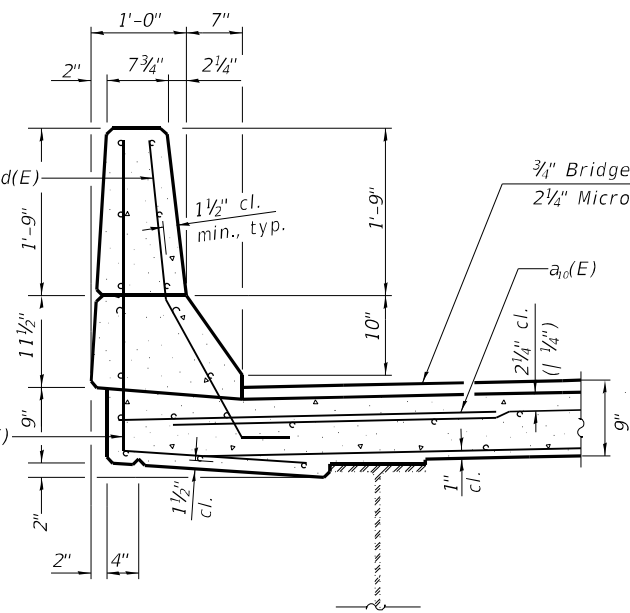
SECTION E-E

(At Approach Bent)

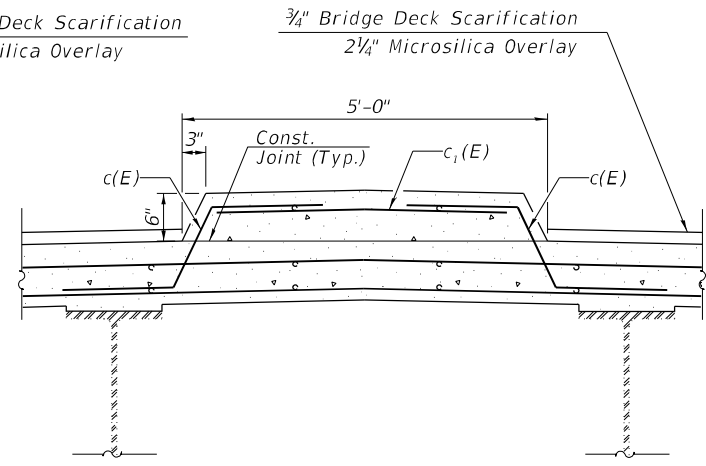


SECTION F-F

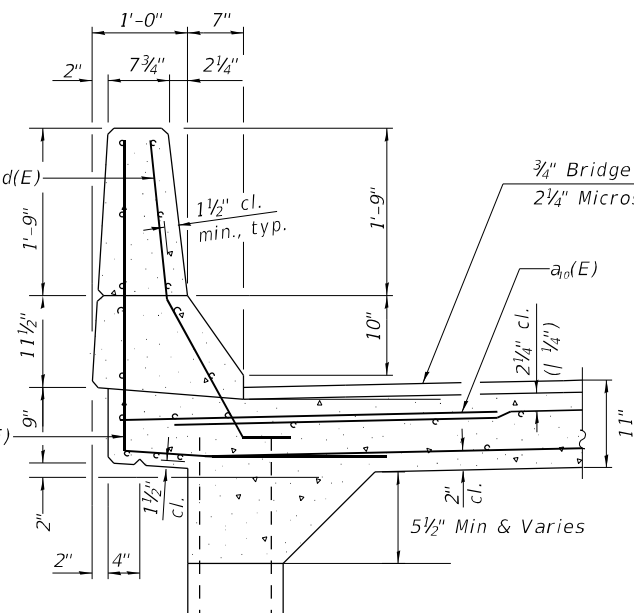
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SECTION G-G

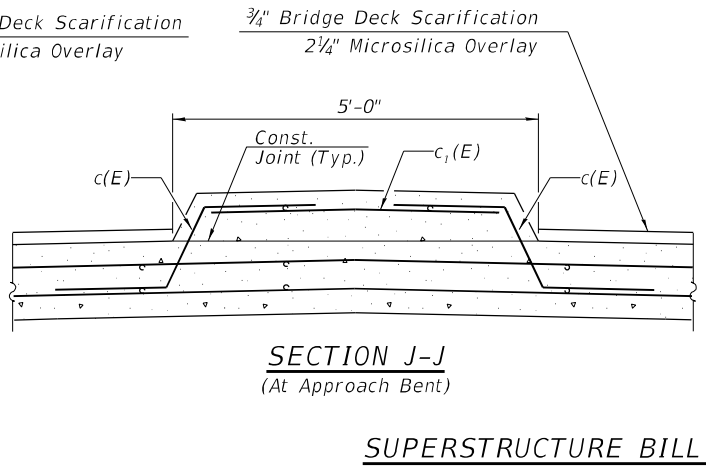


SECTION H-H



SECTION I-I

(At Approach Bent)



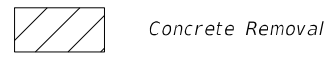
SECTION J-J

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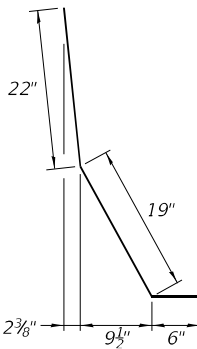
NOTES

- Hatched areas indicate Concrete Removal.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- Cut reinforcing bars in field to fit as required.

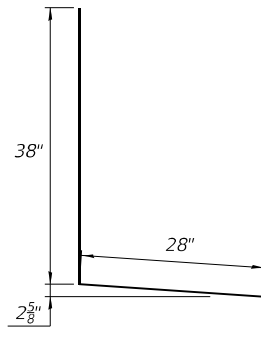
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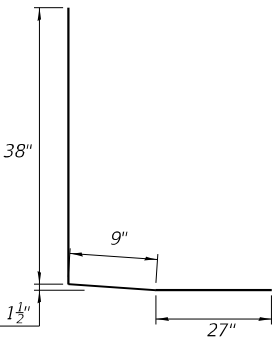
Concrete Removal



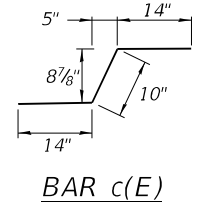
BAR d(E)



BAR d_1(E)



BAR d_2(E)



BAR c(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a11(E)	3	#5	40'-4"	—
a12(E)	3	#5	24'-8"	—
a13(E)	2	#5	40'-4"	—
a14(E)	2	#5	24'-8"	—
a15(E)	2	#6	40'-4"	—
a16(E)	2	#6	24'-8"	—
a17(E)	1	#5	40'-4"	—
a18(E)	1	#5	24'-8"	—
a19(E)	1	#5	40'-4"	—
a20(E)	1	#5	24'-8"	—
a10(E)	10	#6	4'-0"	—
c(E)	10	#5	3'-2"	—
c1(E)	5	#5	4'-3"	—
d(E)	12	#5	3'-11"	—
d1(E)	6	#4	5'-6"	—
d2(E)	6	#4	6'-2"	—
Reinforcement Bars, Epoxy Coated			Lbs.	885
Concrete Superstructure			Cu. Yds.	9.7
Concrete Removal			Cu. Yds.	8.6

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USER NAME =	DESIGNED - JJC	REVISED -
PLOT SCALE =	CHECKED - CJC	REVISED -
PLOT DATE =	DRAWN - AE	REVISED -
	CHECKED - JJC	REVISED -

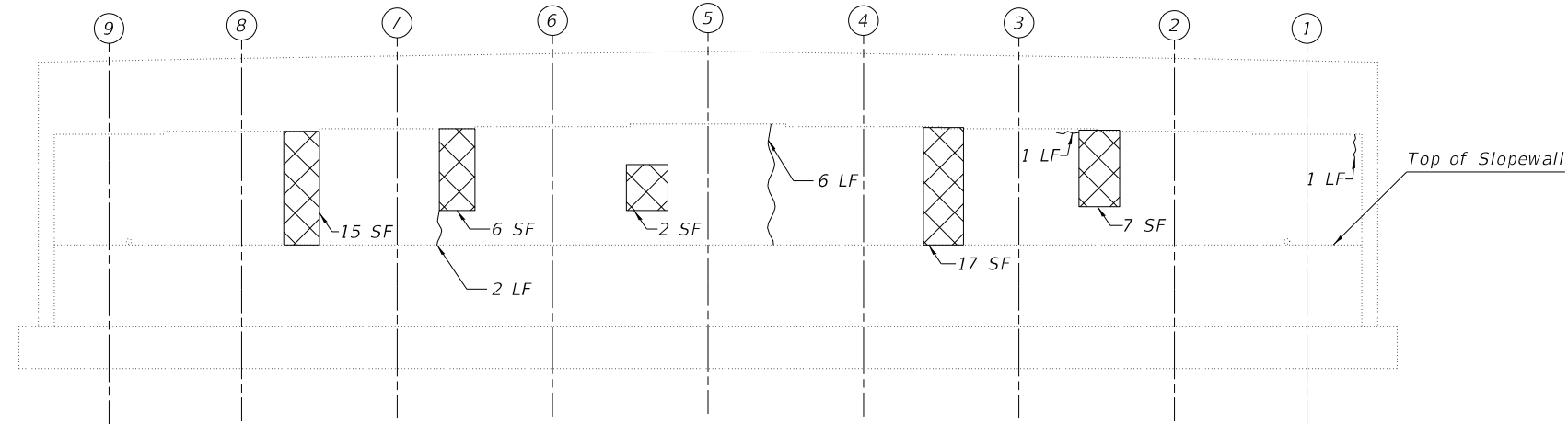
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST EXPANSION JOINT REMOVAL & REPLACEMENT (2 of 2)
 STRUCTURE NO. 090-0132**

SHEET 7 OF 12 SHEETS


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155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	84
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

- Notes:
1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
 2. SF = Square Feet



WEST ABUTMENT ELEVATION
(Looking West)

LEGEND

- H Hairline Crack
- ~ Epoxy Crack Injection
-  Structural Repair of Concrete (Depth Equal To or Less than 5 inches)
- SF - Square Foot
- LF - Linear Foot

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	10
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft.	47

MODEL: \$MODELNAME\$ FILE NAME: X:\Projects\Current\192-1063 IDOT D4 W02 PTB206-30 Various Bridges Preservation\DGN\68H71090-0132\0900132_08_West Abutment Repair Details.dgn

HR Hurst-Rosche, Inc.
1400 E. TREMONT ST.
HILLSBORO, IL
PH: 217.532.3959
JOB NO. 192-1063

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PLOT DATE =	CHECKED - JJC	REVISED -

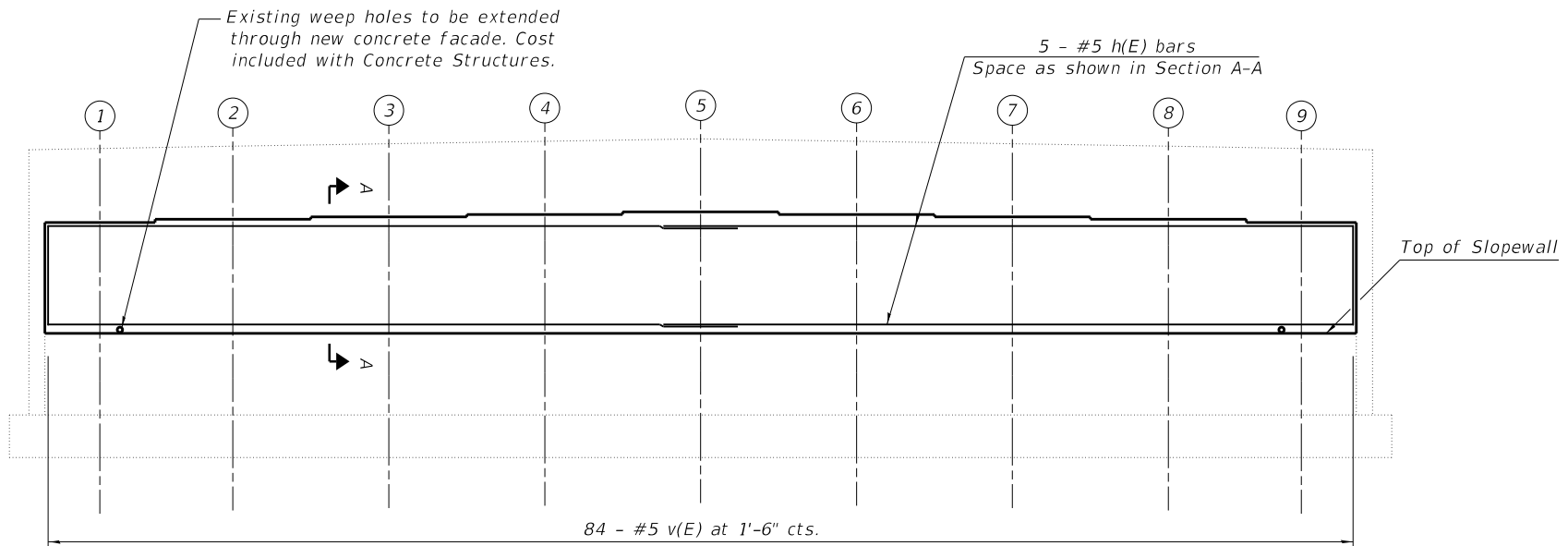
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**WEST ABUTMENT REPAIR DETAILS
STRUCTURE NO. 090-0132**

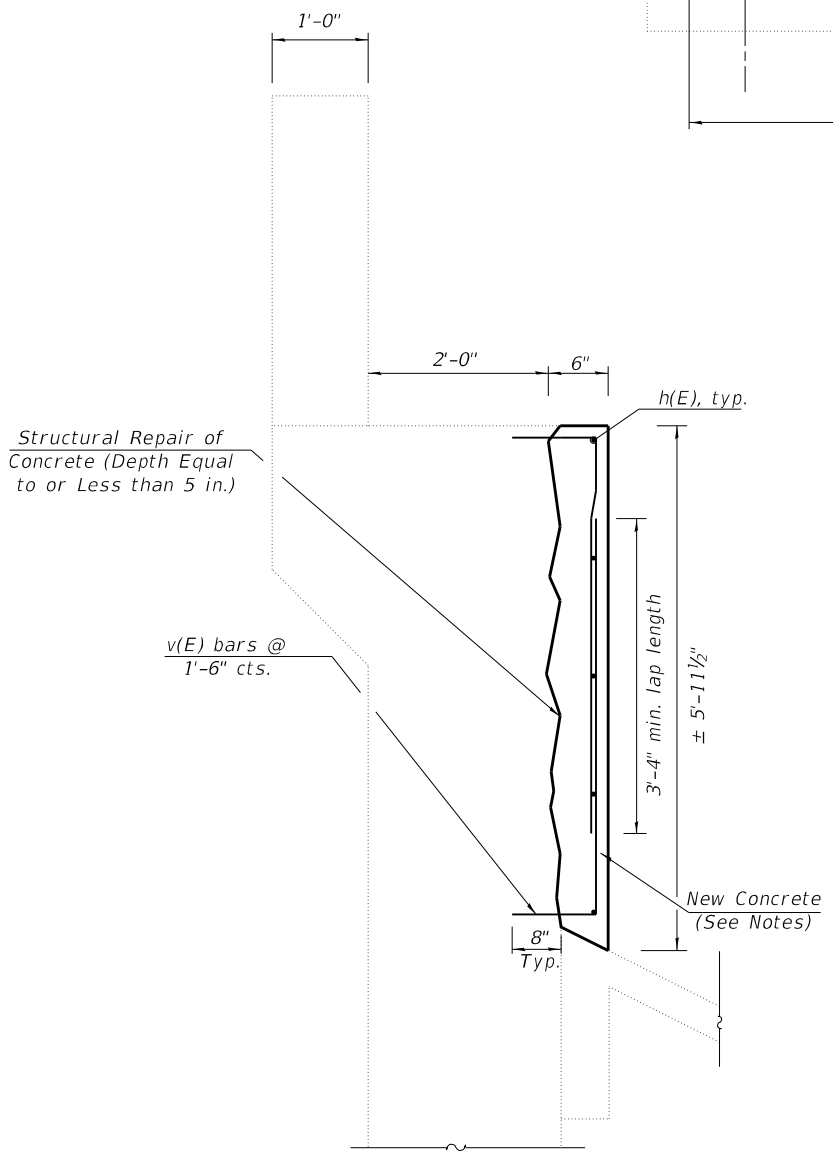
SHEET 8 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	85
CONTRACT NO. 68H71				
ILLINOIS		FED. AID PROJECT		

MODEL: \$MODELNAME\$
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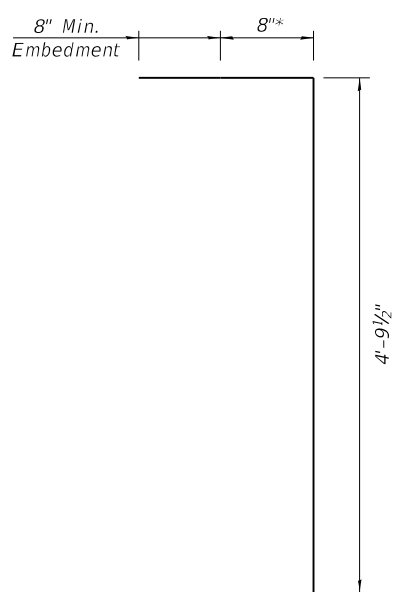


Elevation



Section A-A

* Epoxy grout v(E) bars in 8" min. holes according to Article 584 of the Standard Specifications.



v(E)

* Field cut bars in field to required length, as necessary to account for any deteriorated concrete removal

- Notes:
1. All loose and deteriorated concrete shall be removed. The entire face and exposed rebar shall be blast cleaned. All exposed reinforcement bars shall be cleaned, straightened, and incorporated into the new construction. This work will be done, measured, and paid for as Structural Repair of Concrete (Depth Equal to or Less Than 5 inches) except that it will not be necessary to replace existing reinforcement bars that have been cut or have lost 25 percent or more of their original cross sectional area.
 2. The deteriorated areas of concrete shall be poured back monolithically with the Concrete Structures facade.
 3. The cost of drilling and grouting reinforcement bars is included with the cost of Structural Repair of Concrete (Depth Equal to or Less Than 5 inches).
 4. SF = Square Feet

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	10	#5	32'-6"	┌───┐
v(E)	84	#5	5'-2"	───
Reinforcement Bars, Epoxy Coated			Lbs.	875
Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)			Sq. Ft.	352
Concrete Structures			Cu. Yds.	6.8

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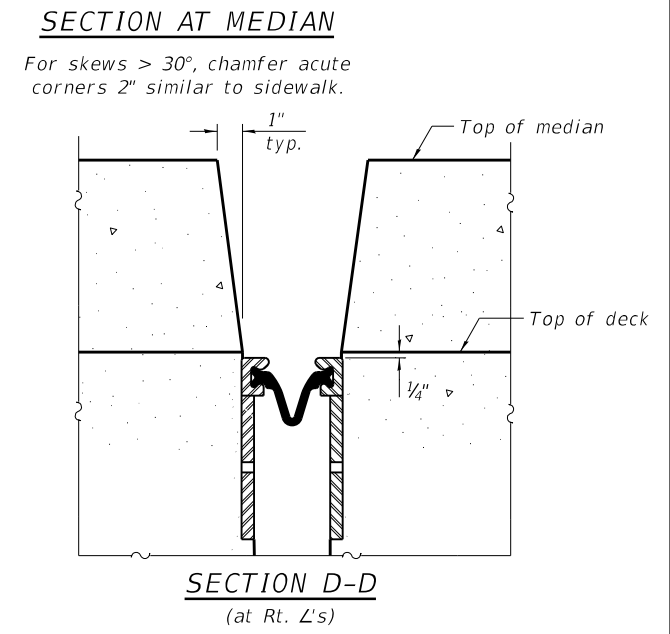
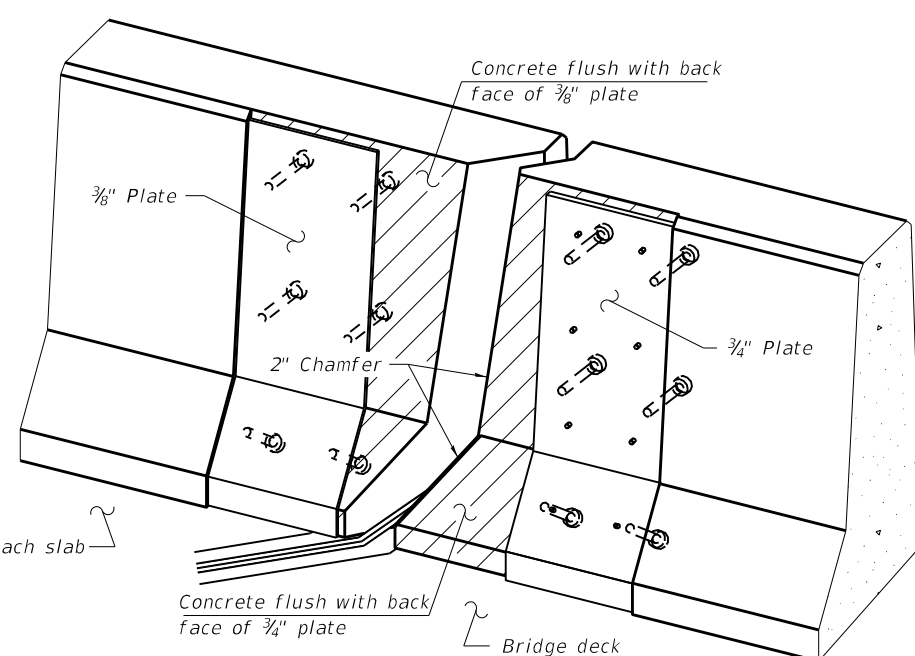
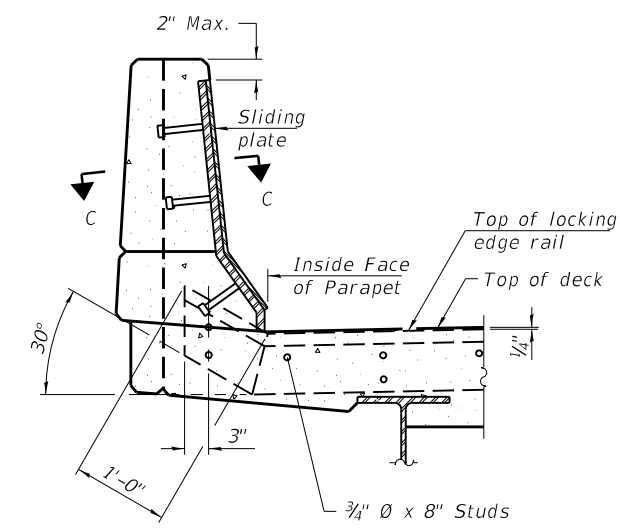
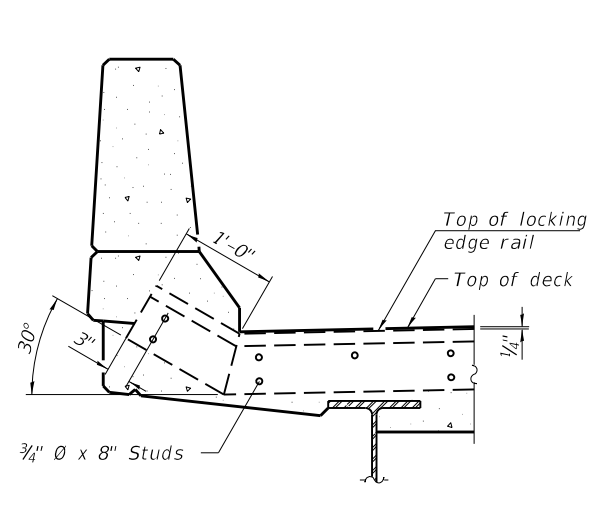
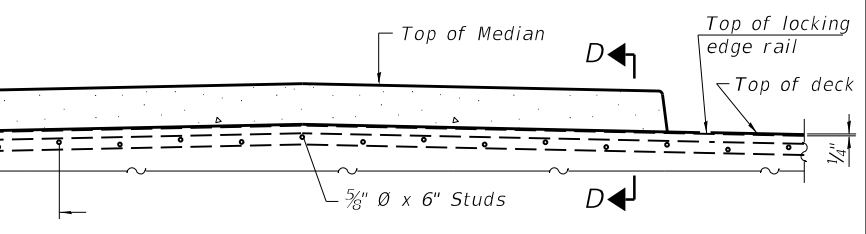
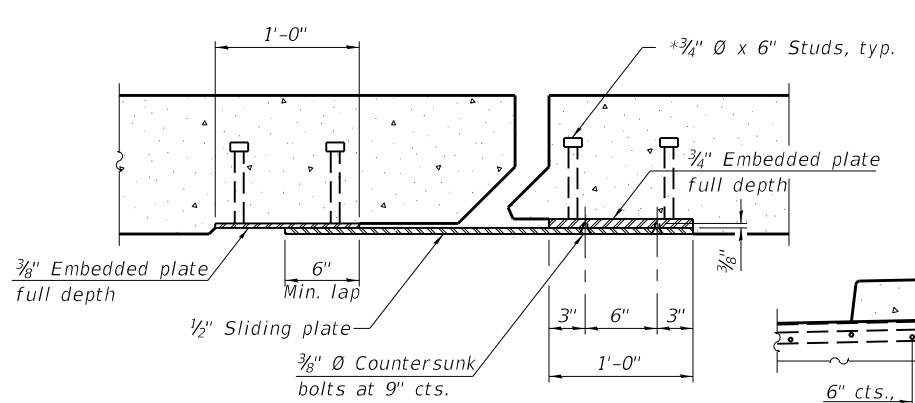
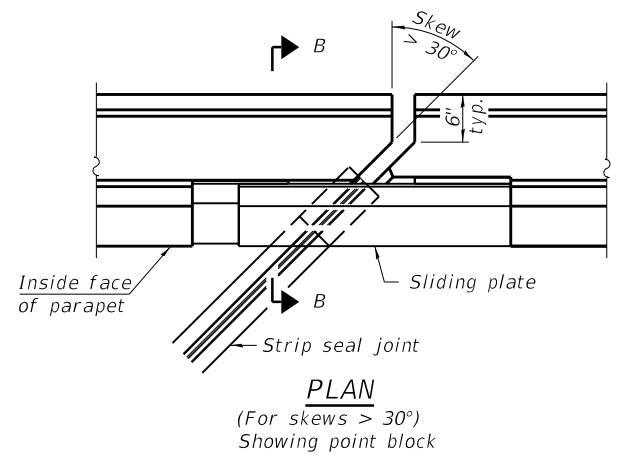
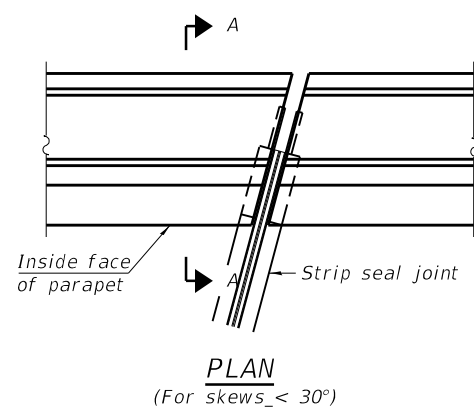
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PLOT SCALE = _____	CHECKED - CJC	REVISED - _____
PLOT DATE = _____	DRAWN - AE	REVISED - _____
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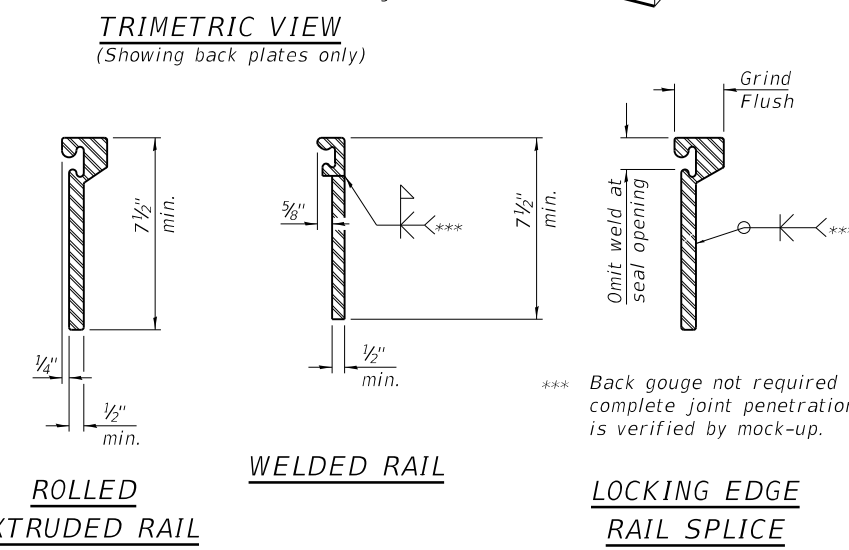
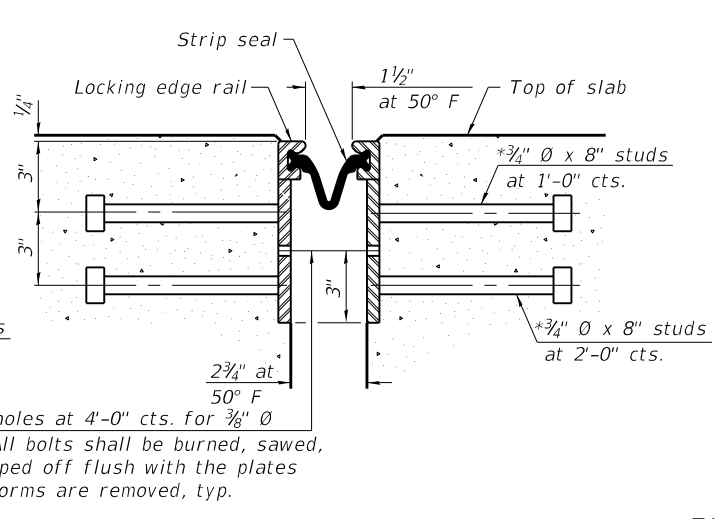
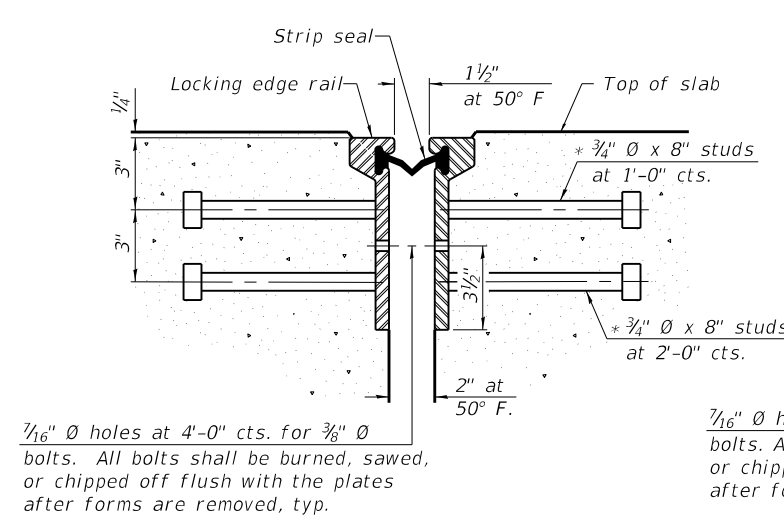
EAST ABUTMENT REPAIR DETAILS
STRUCTURE NO. 090-0132

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	86
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

MODEL: SMODELNAMES
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Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
 The manufacturer's recommended installation methods shall be followed.
 The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.
 Parapet plates and anchorage studs for skews > 30° included in the cost of Prefomed Joint Strip Seal.



SECTION THRU ROLLED RAIL JOINT

SECTION THRU WELDED RAIL JOINT

ROLLING EDGE RAILS

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.
 Rolled rail shown, welded rail similar.

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

BILL OF MATERIAL

Item	Unit	Total
Prefomed Joint Strip Seal	Foot	131

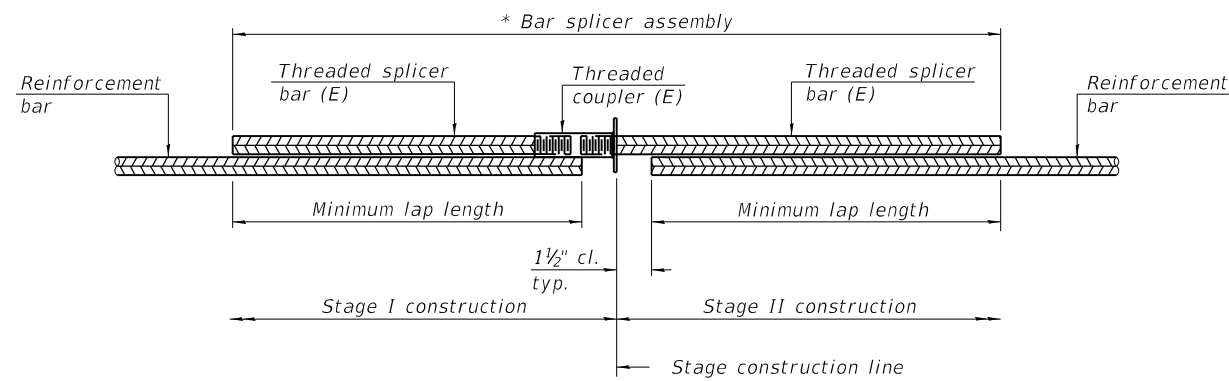
HR
 Hurst-Rosche, Inc.
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

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PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 090-0132
 SHEET 10 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	87
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



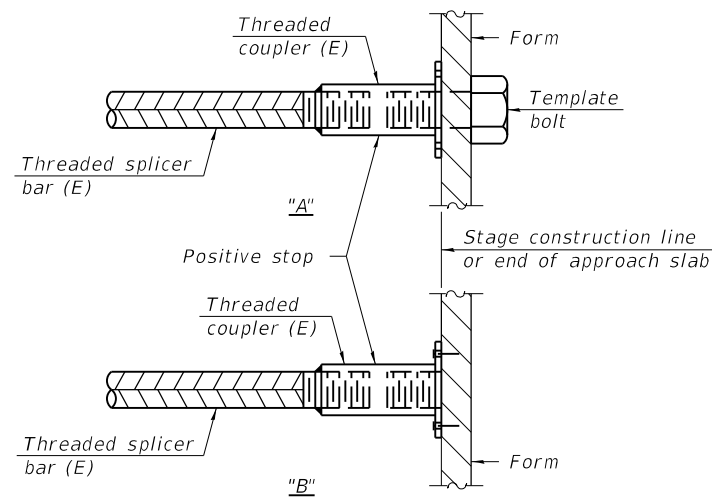
STANDARD BAR SPLICER ASSEMBLY PLAN

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

Threaded splicer bar length = min. lap length + 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
West Abutment	#5	7	3'-4"
East Abutment	#5	7	3'-4"
West Abutment	#6	2	4'-0"
East Abutment	#6	2	4'-0"

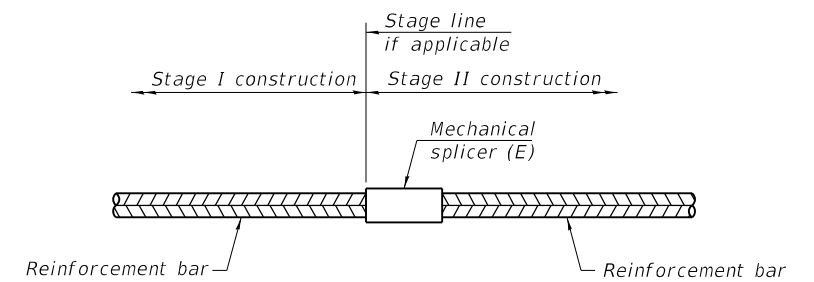


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: \$MODELNAME\$
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BSD-1

2-1-2023



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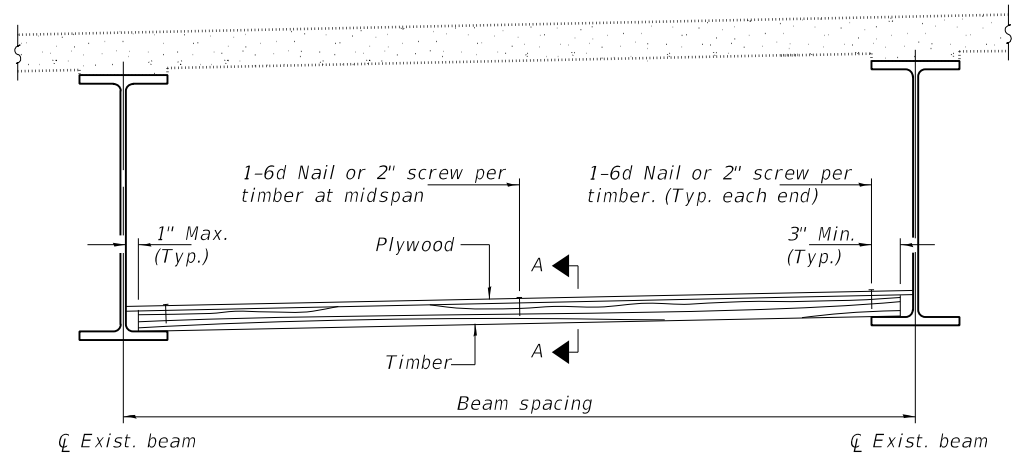
STATE OF ILLINOIS
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BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 090-0132

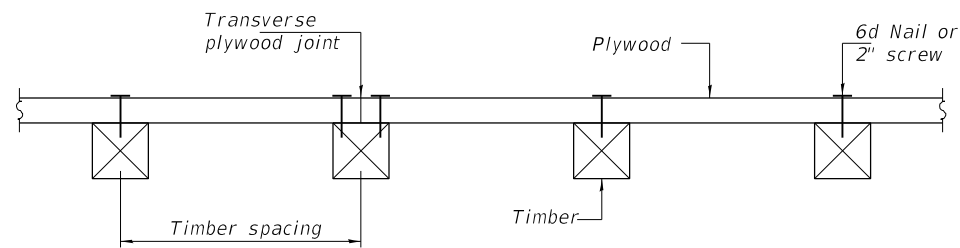
SHEET 11 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	88
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

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STEEL BEAMS



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

Notes: See special provision for Permanent Protective Shield System.

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.

The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.

The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions. All timber shall be treated.

Plywood shall be 5/8" rated Exterior type plywood by APA.

Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers.

When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.

Design load = 200 psf.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	612

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 HILLSBORO, IL
 PH: 217.532.3959
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PERMANENT PROTECTIVE SHIELDING
 STRUCTURE NO. 090-0132**

SHEET 12 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	89
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

Benchmark:
DM-4, Bronze Survey Marker STA. 94+75.00, 37' LT, CH 5 (Allentown Road), Elev. 669.63

Existing Structure No. 090-0133:

The existing structure is a two span bridge with a 7½" concrete deck supported by 42" Web Plate Girders. The structure was constructed in 1989 as Section 90-(107)HB-1. The superstructure is supported by closed vaulted abutments. It has an out to out deck width of 37'-2" and a 184'-5" back to back abutment length.

Traffic control to utilize detours.

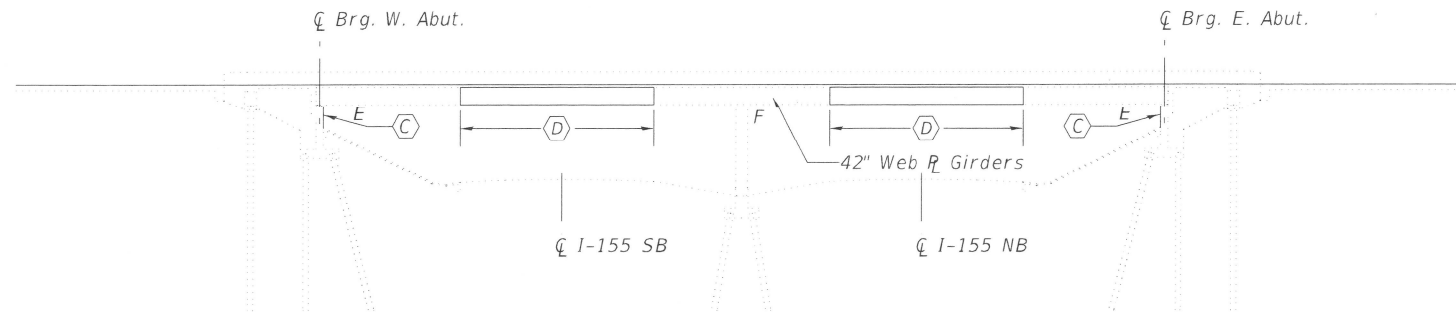
SCOPE OF WORK

1. Install Permanent Protective Shield above the NB and SB I-155 as indicated on plans
2. Remove Inlet Grates and Replace with RipRap Swales, per civil sheets
3. Perform Bridge Deck Scarification ¾"
4. Perform Deck Slab Repairs and Parapet Repairs as indicated on the plans, Fill Relief Joint Cracks as needed
5. Perform Expansion Joint Reconstruction
6. Perform Deck Microsilica Overlay 2¼"
7. Perform Abutment Repairs at locations indicated on the plans

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	9.8
Concrete Superstructure	Cu. Yd.	11.2
Bridge Deck Grooving	Sq. Yd.	1005
Protective Coat	Sq. Yd.	1111
Reinforcement Bars, Epoxy Coated	Lbs	1040
Preformed Joint Strip Seal	Foot	75
Epoxy Crack Injection	Foot	41
* Protective Shield (Permanent)	Sq. Yd.	347
* Surface Filler (Special)	Gallon	9
* Protective Coat (Special)	Sq. Yd.	556
* Bridge Deck Scarification ¾"	Sq. Yd.	1077
* Bridge Deck Microsilica Concrete Overlay 2¼"	Sq. Yd.	1077
* Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	86
* Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	9
* Slope Wall Slurry Pumping	Cu. Yd.	2.0

* Denotes Special Provisions



ELEVATION

INDEX OF SHEETS

1. General Plan and Elevation
2. Cross-Section
3. West Expansion Joint Removal & Replacement
4. East Expansion Joint Removal & Replacement
5. Abutment Repair Details
6. Preformed Joint Strip Seal
7. Permanent Protective Shield

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck for expansion joint reconstruction and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose 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 paid for according to Article 109.04 of the Standard Specifications.

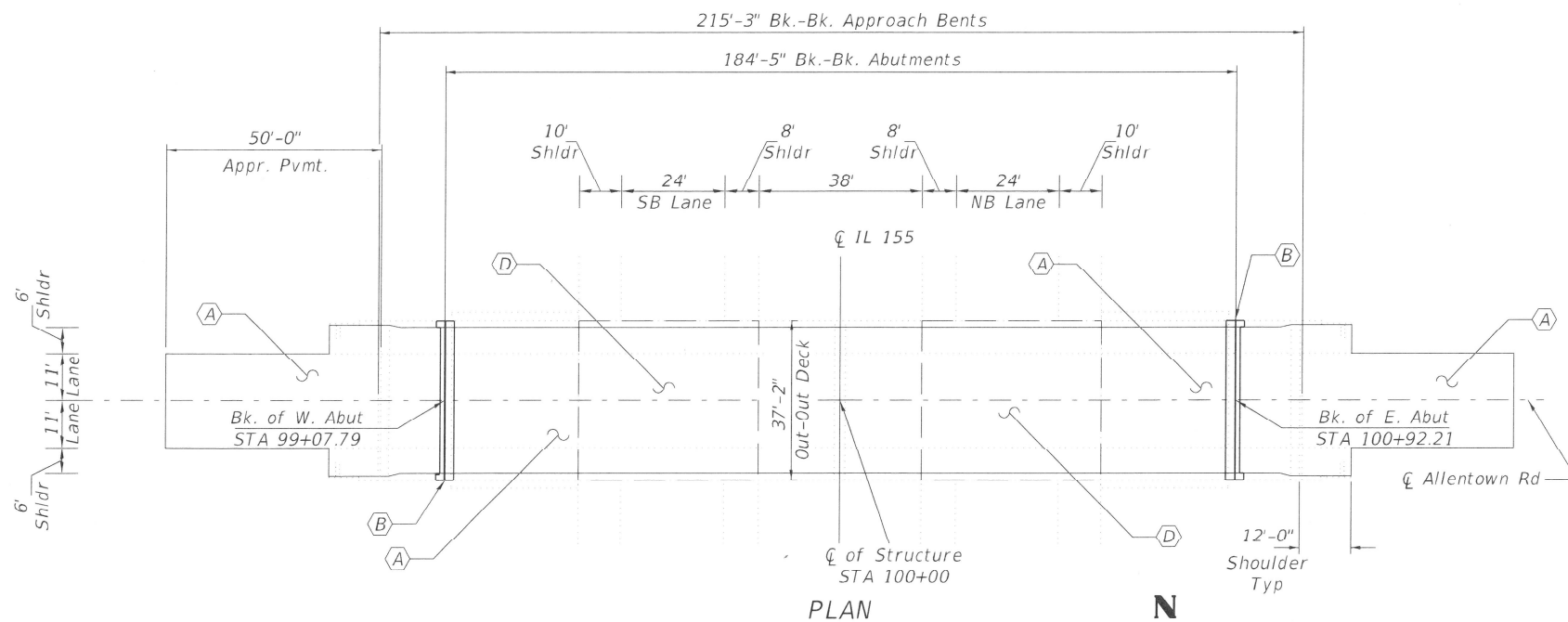
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding ¼ in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to the existing structure have been taken from existing plans and 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 variation shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

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

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.



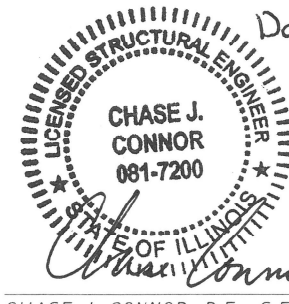
PLAN

KEYED NOTES

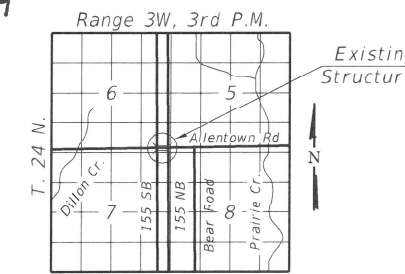
- (A) Bridge Deck Scarification ¾" and 2¼" Microsilica Concrete Overlay
- (B) Expansion Joint Replacement
- (C) Structural Repair of Abutments
- (D) Permanent Protective Shielding

LEGEND

- Expansion Joint Replacement
- Limits of ¾" Scarification and 2¼" Microsilica Concrete Overlay
- Limits of Protective Shield (Permanent)



Date: 2/12/24



LOCATION SKETCH

GENERAL PLAN & ELEVATION
ALLENTOWN ROAD
OVER I-155
TAZEWELL COUNTY
STATION 100+00.00
STRUCTURE NO. 090-0133

MODEL: \$MODELNAME\$ FILE NAME: X:\Projects\Current\192-1063 IDOT DA W02 FTB206-30 Various Bridges Preservation\06N68H7109P-0133\0500113_01_general plan and elevation.dgn

HR Hurst-Rosche, Inc.
PROFESSIONAL DESIGN NUMBER: 194-00288
1400 E. TREMONT ST.
HILLSBORO, IL
PH: 217.532.3959
JOB NO. 192-1063

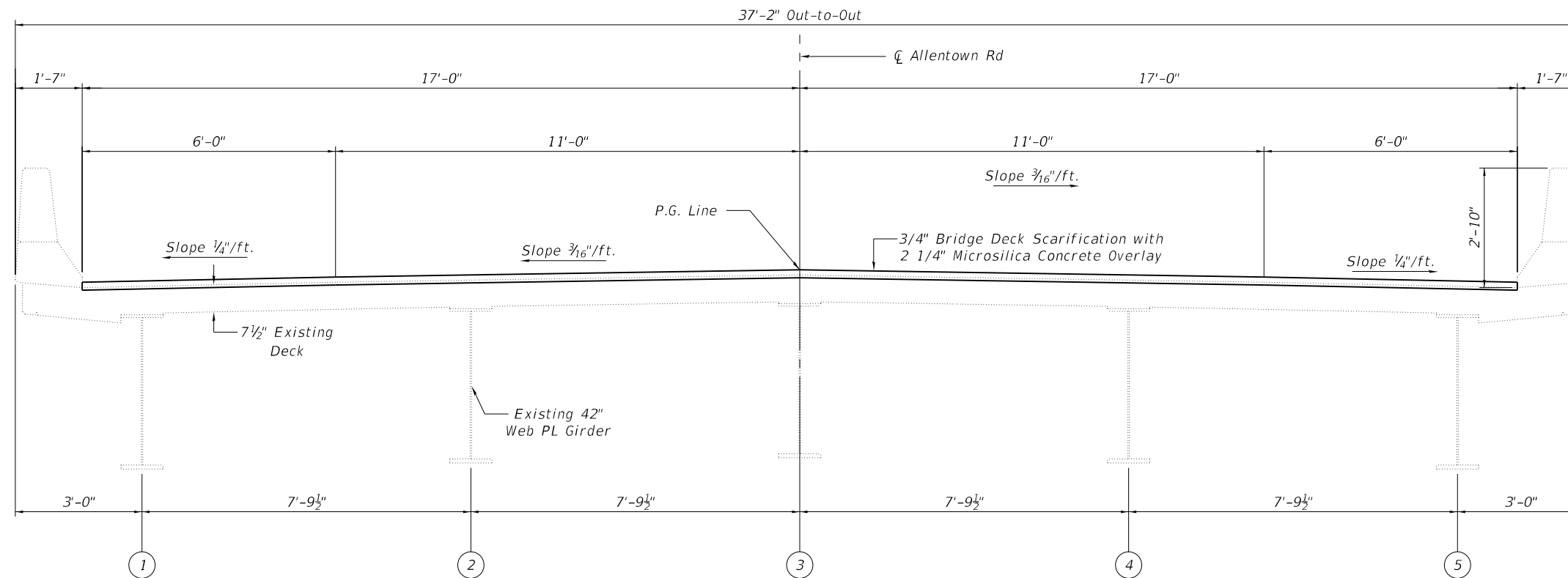
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PLOT SCALE =	CHECKED - CJC	REVISIONS -
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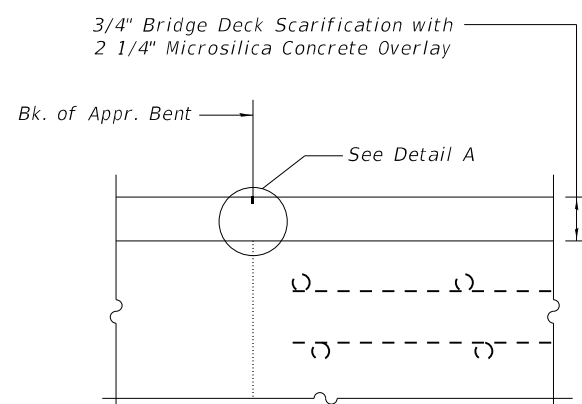
GENERAL PLAN & ELEVATION
STRUCTURE NO. 090-0133

SHEET 1 OF 7 SHEETS

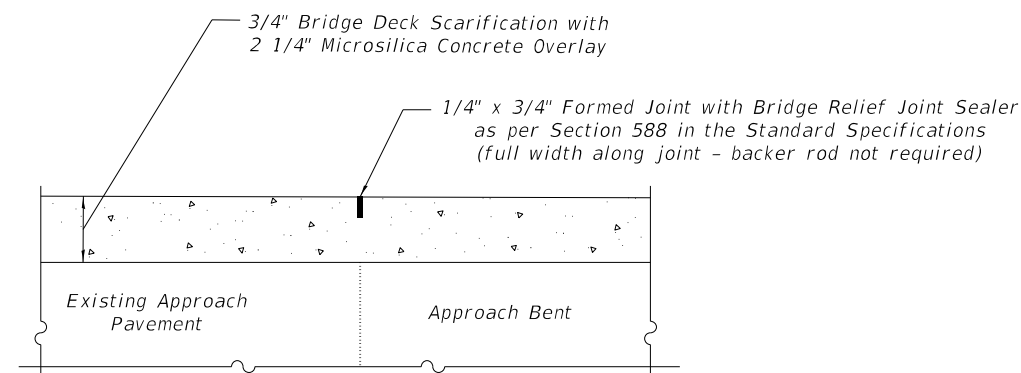
F.A.I. RTE. 155	SECTION D4 BRIDGE JOINT REPAIR	COUNTY TAZEWELL	TOTAL SHEETS 123	SHEET NO. 90
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	



CROSS SECTION
(Looking East)



SECTION AT APPROACH



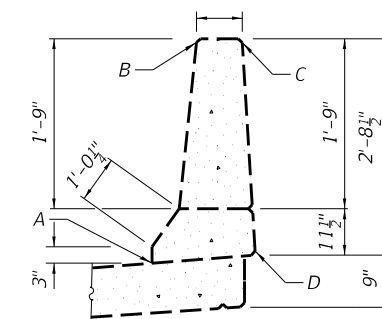
DETAIL A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Surface Filler (Special)	Gallon	9
Protective Coat (Special)	Sq. Yd.	556

NOTES

1. Surface Filler (Special) and Protective Coat (Special) shall be applied per the Special Provisions.
2. Protective Coat (Special) to cover from Point A through Points B, C and D of the Parapet.



PARAPET SEALING DETAIL

MODEL: \$MODELNAMES
FILE NAME: X:\Projects\Current\192-1063 IDOT D4 W02 PTB206-30 Various Bridges Preservation\DGN\68H71090-0133\0900133_02_cross_section.dgn

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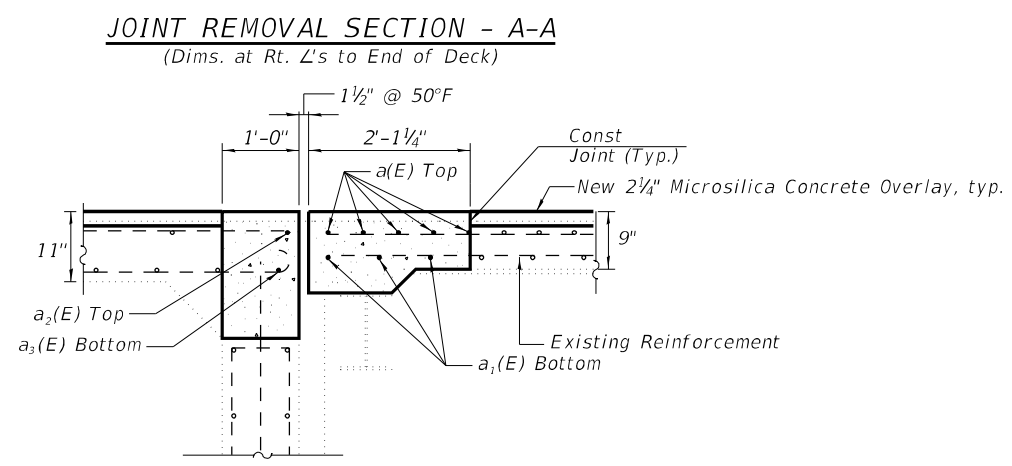
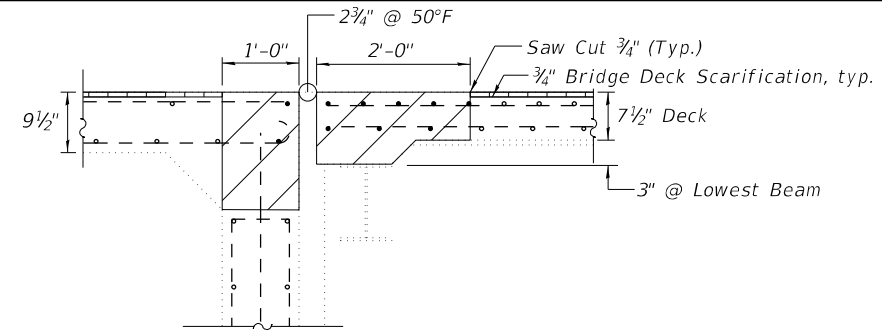
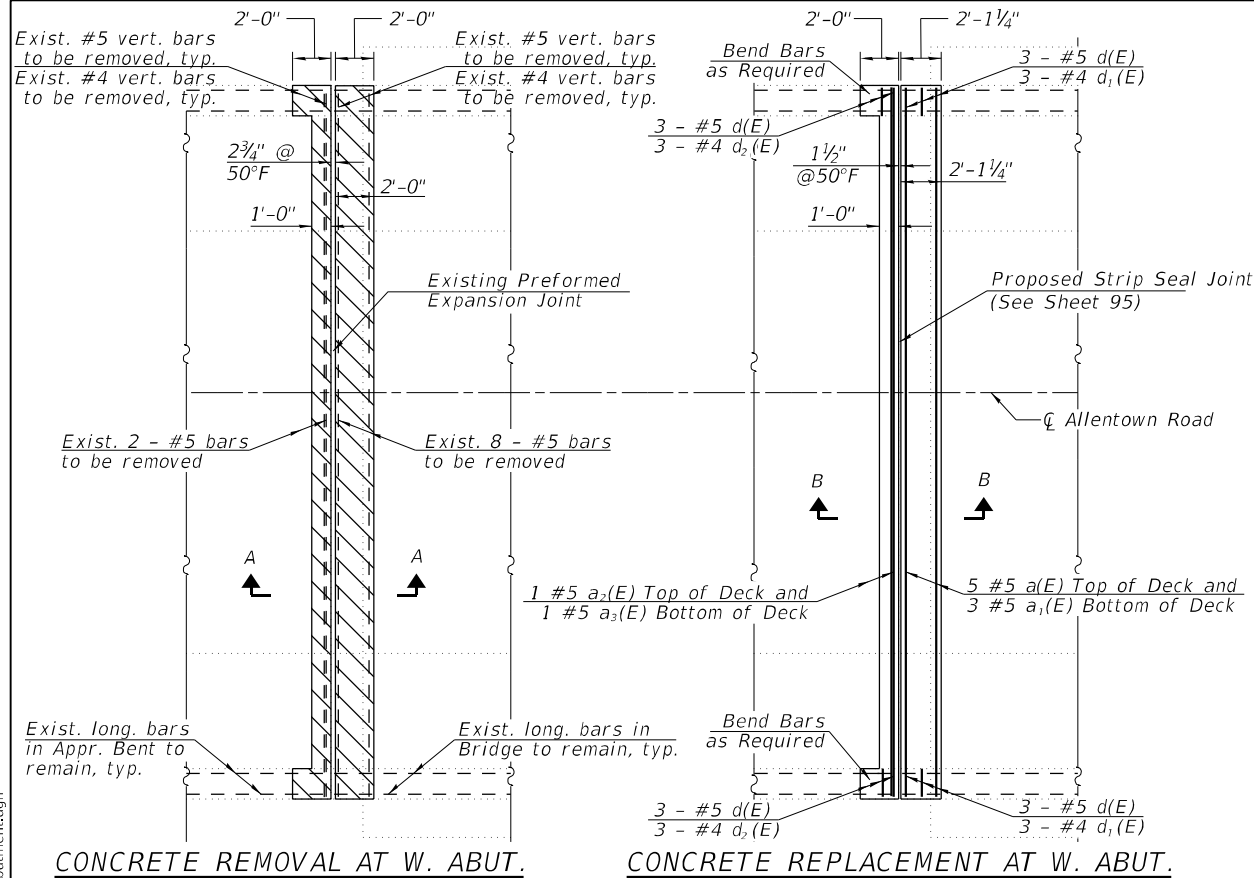
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PLOT SCALE =	DRAWN - RGA	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
STRUCTURE NO. 090-0133

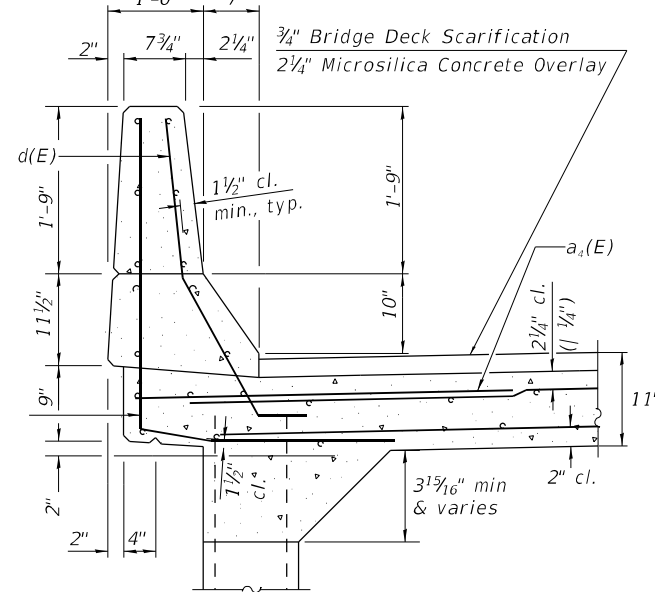
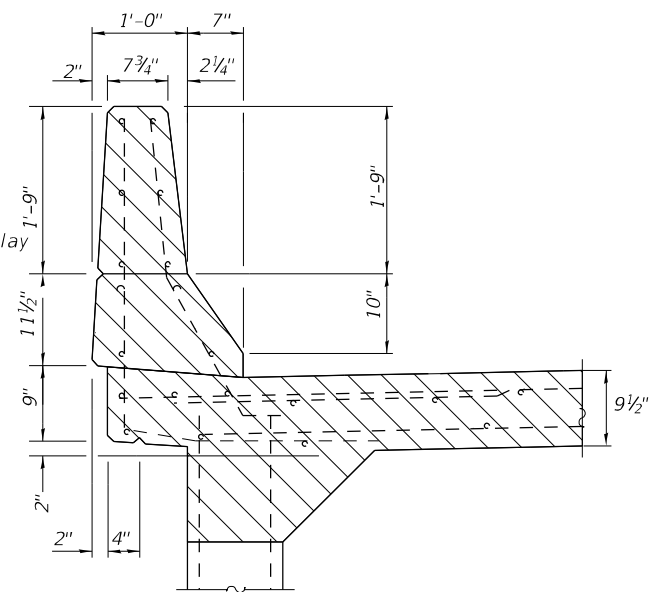
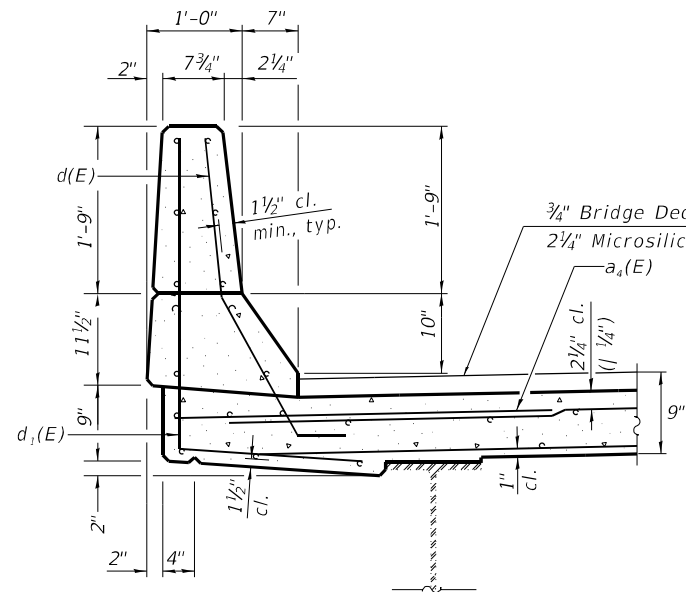
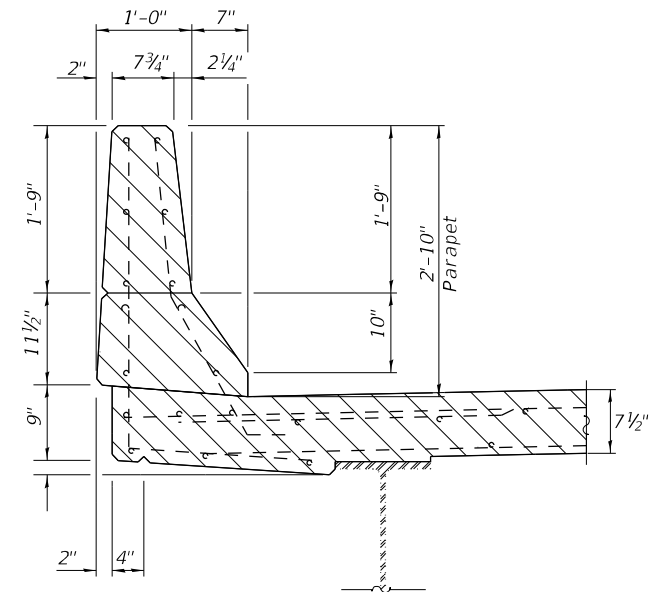
SHEET 2 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	91
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	5	#5	36'-11"	—
a1(E)	3	#5	36'-11"	—
a2(E)	1	#5	36'-11"	—
a3(E)	1	#5	36'-11"	—
a4(E)	6	#6	4'-0"	—
d(E)	12	#5	3'-11"	⌋
d1(E)	6	#4	5'-3"	⌋
d2(E)	6	#4	6'-2"	⌋
Reinforcement Bars, Epoxy Coated			Lbs.	520
Concrete Superstructure			Cu. Yds.	5.6
Concrete Removal			Cu. Yds.	4.9

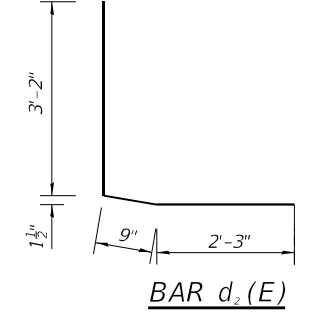
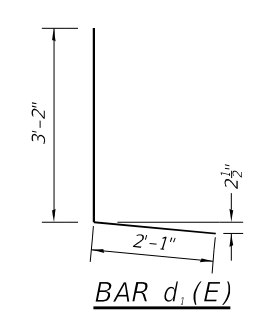
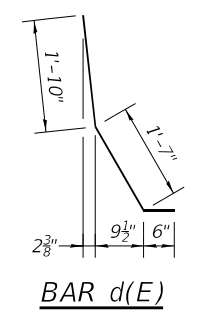


NOTES

- Hatched areas indicate Concrete Removal.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- Cut reinforcing bars in field to fit as required.

LEGEND

- Concrete Removal
- Bridge Deck Scarification, 3/4"
- Concrete Superstructure



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST EXPANSION JOINT REMOVAL & REPLACEMENT
STRUCTURE NO. 090-0133**

SHEET 3 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	92
CONTRACT NO. 68H71				

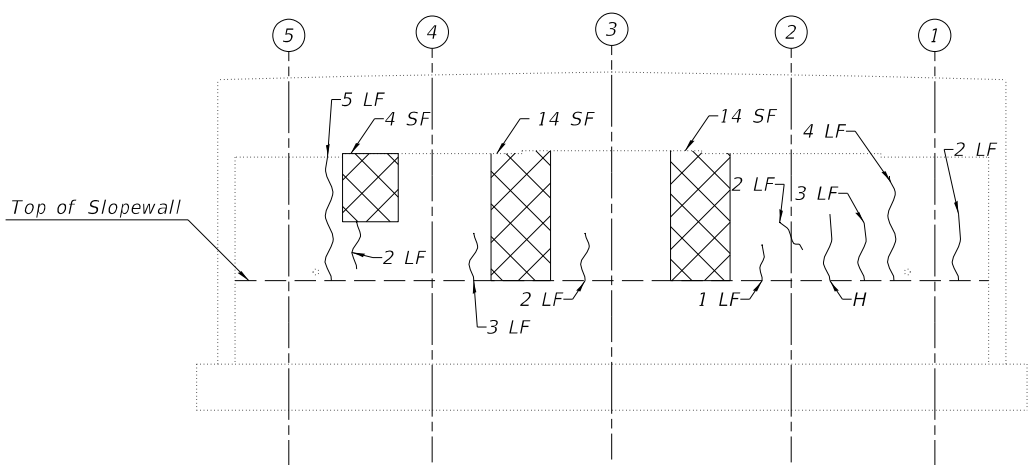
ILLINOIS FED. AID PROJECT

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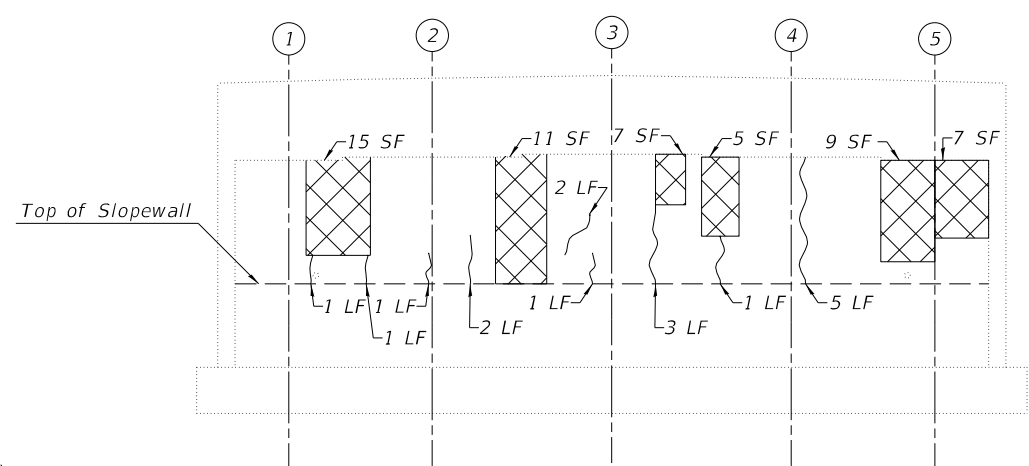
HR
 Hurst-Rosche, Inc.
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

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	CHECKED - CJC	REVISED -

Notes:
 1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
 2. SF = Square Feet



WEST ABUTMENT
 (Looking West)



EAST ABUTMENT
 (Looking East)

LEGEND

- H Hairline Crack
- ~ Epoxy Crack Injection
- [Hatched Box] Structural Repair of Concrete (Depth Equal To or Less than 5 inches)
- SF - Square Foot
- LF - Linear Foot

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	41
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	86

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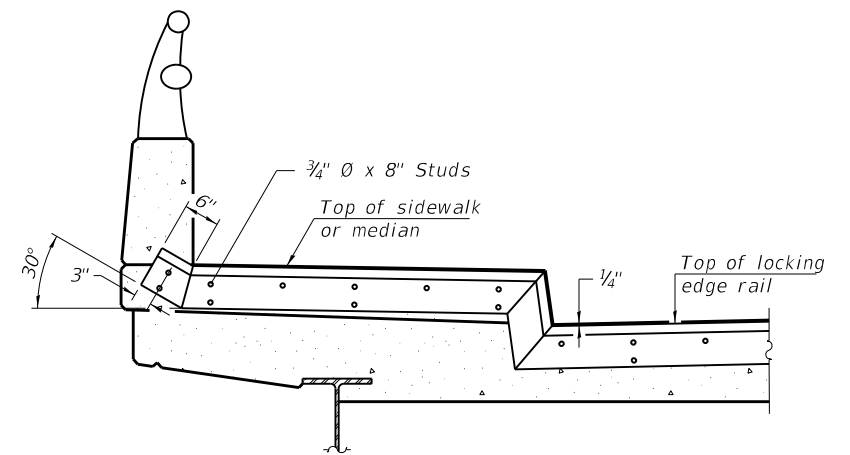
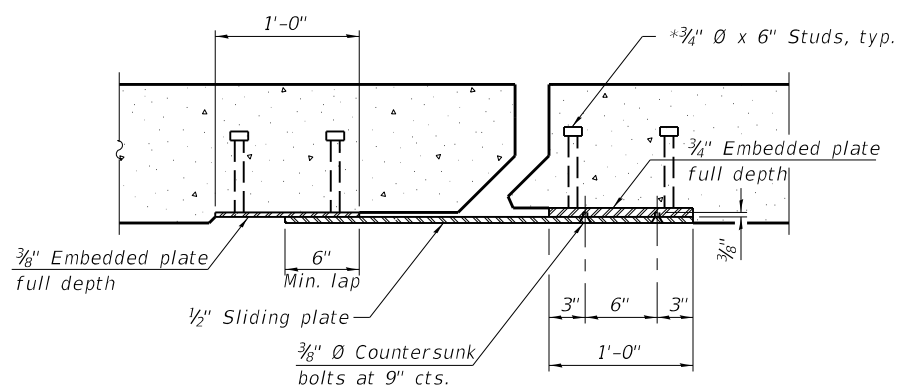
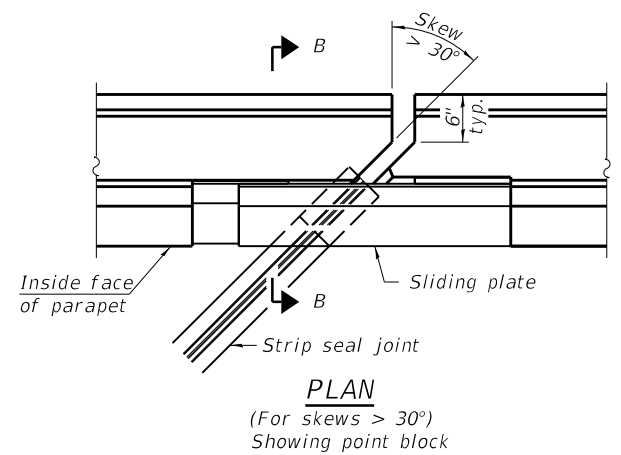
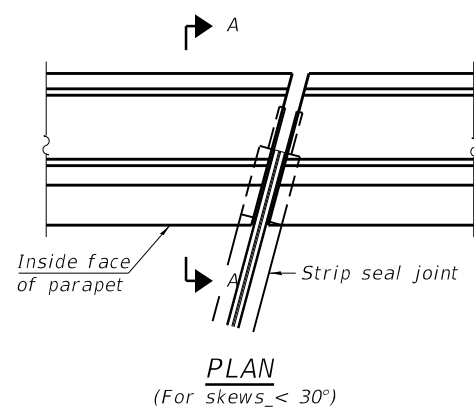
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENT REPAIR DETAILS
 STRUCTURE NO. 090-0133**

SHEET 5 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	94
CONTRACT NO. 68H71				
		ILLINOIS	FED. AID PROJECT	

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TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

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

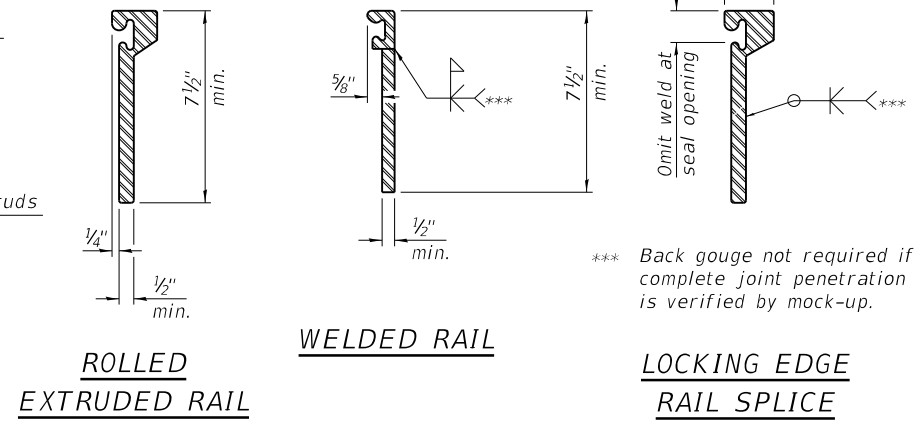
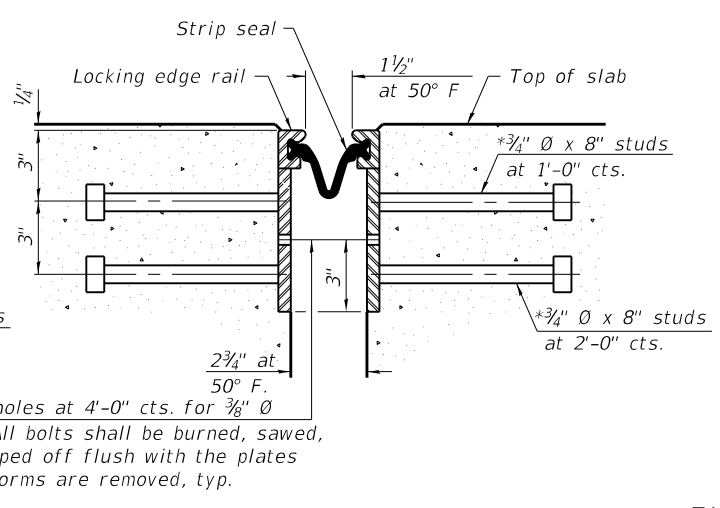
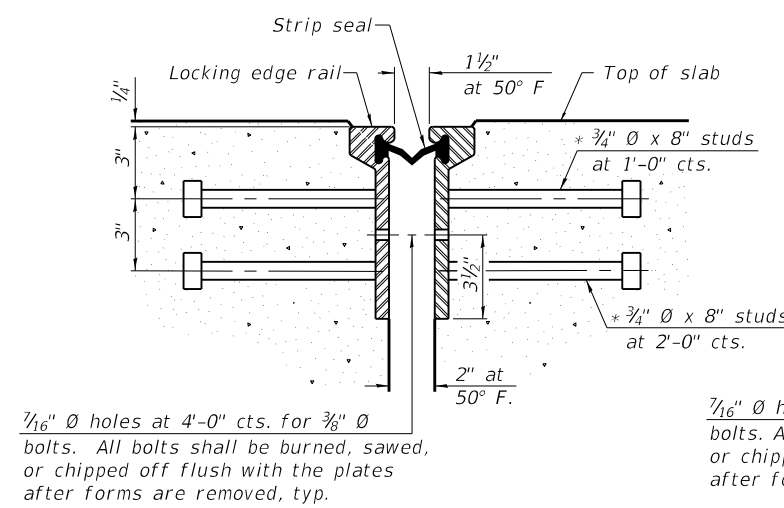
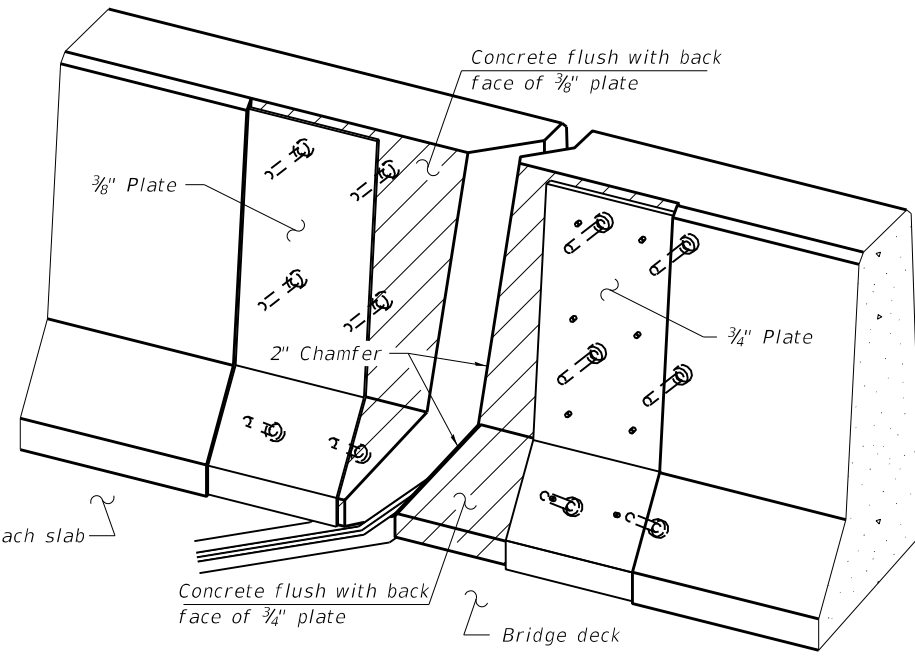
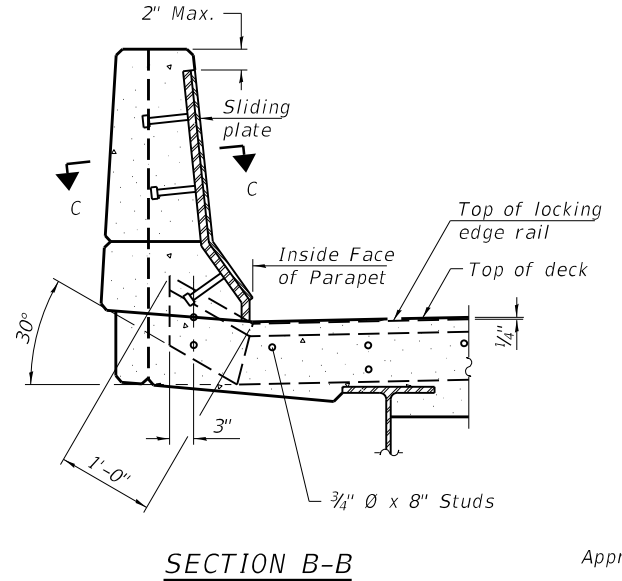
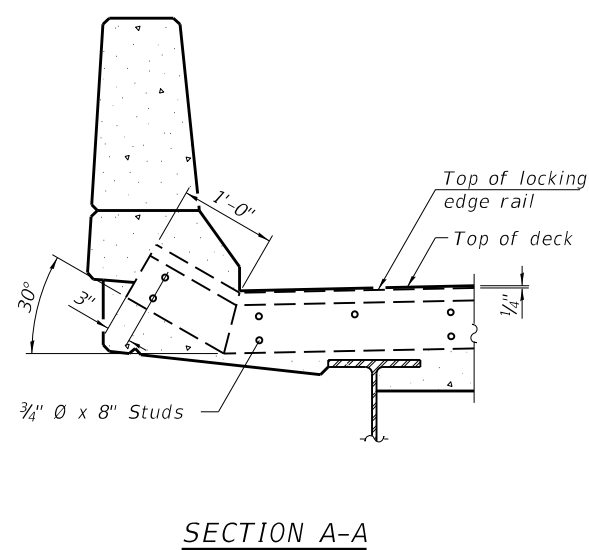
The manufacturer's recommended installation methods shall be followed.

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

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



*** 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	75

SECTION THRU ROLLED RAIL JOINT

1/16" Ø holes at 4'-0" cts. for 3/8" Ø bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

1/16" Ø holes at 4'-0" cts. for 3/8" Ø bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

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

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

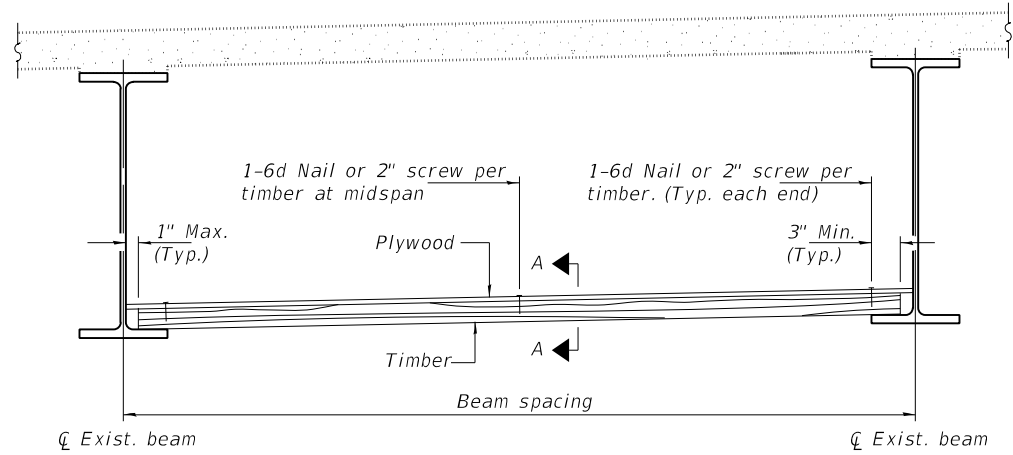
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL STRUCTURE NO. 090-0133

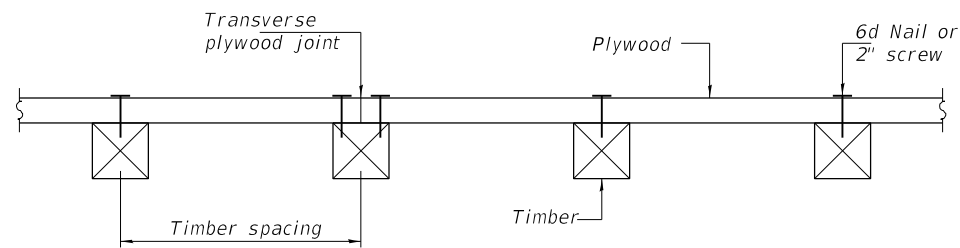
SHEET 6 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	95
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

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STEEL BEAMS



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

Notes: See special provision for Permanent Protective Shield System.

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.

The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.

The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions. All timber shall be treated.

Plywood shall be 5/8" rated Exterior type plywood by APA.

Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers.

When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.

Design load = 200 psf.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	347

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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PERMANENT PROTECTIVE SHIELDING
 STRUCTURE NO. 090-0133**

SHEET 7 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	96
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

Benchmark:
 #20 Hor. Laq. Screw in Power Pole ± 150' Rt. S. Sta. 616+50, Elev. 608.44

Existing Structure No. 090-0137:
 The existing structure is a two span bridge with a 7 1/2" concrete deck supported by 42" Web Plate Girders. The structure was constructed in 1988 as Section 90 (108)HB. The superstructure is supported by closed vaulted abutments. It has an out to out deck width of 33'-2" and a 193'-6 1/4" back to back abutment length. Traffic to utilize detours.

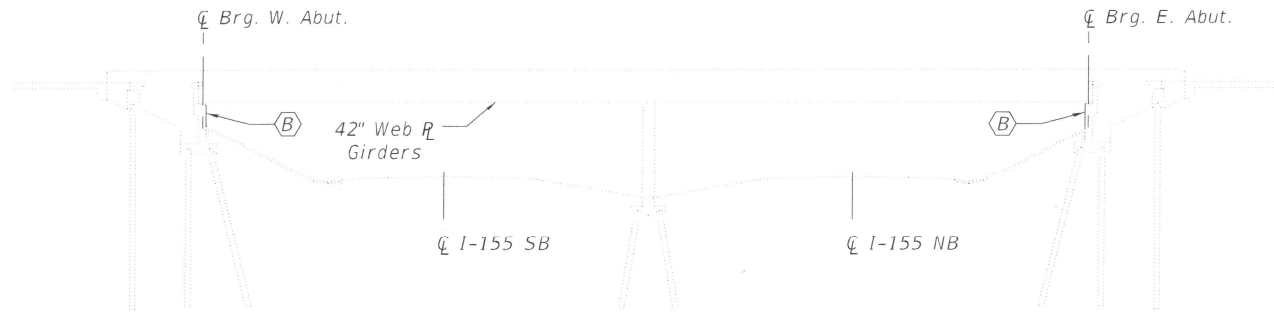
SCOPE OF WORK

1. Clean existing inlets
2. Perform parapet repairs as indicated on the plans
3. Perform Expansion Joint Reconstruction
4. Perform Abutment Repairs at locations as indicated on the plans

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	8.4
Concrete Superstructure	Cu. Yd.	9.6
Protective Coat	Sq. Yd.	36
Reinforcement Bars, Epoxy Coated	Lbs	1020
Preformed Joint Strip Seal	Foot	65
Epoxy Crack Injection	Foot	51
* Surface Filler (Special)	Gallon	9
* Protective Coat (Special)	Sq. Yd.	593
* Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	3
* Slopewall Slurry Pumping	Cu. Yd.	2.0

* Denotes Special Provisions



INDEX OF SHEETS

1. General Plan and Elevation
2. Cross Section
3. West Expansion Joint Removal & Replacement
4. East Expansion Joint Removal & Replacement
5. Abutment Repair Details
6. Preformed Joint Strip Seal

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck for expansion joint reconstruction and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose 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 paid for according to Article 109.04 of the Standard Specifications.

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 penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

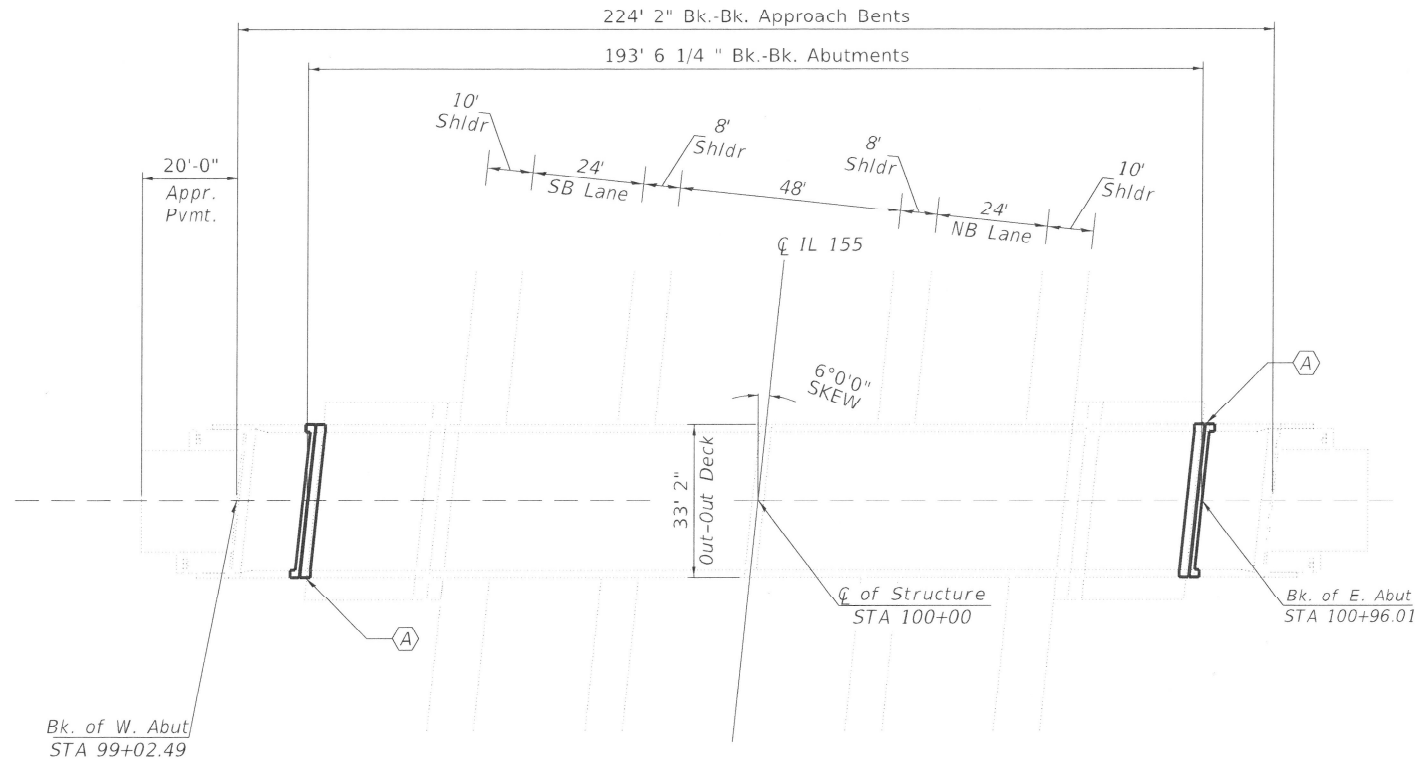
Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variation shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

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

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.

ELEVATION



PLAN

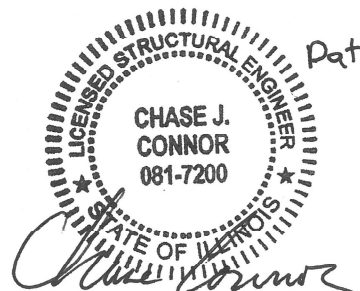


KEYED NOTES

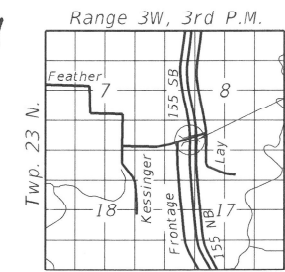
- (A) Expansion Joint Replacement
- (B) Structural Repair of Abutments

LEGEND

— Expansion Joint Replacement



CHASE J. CONNOR, P.E., S.E.
 ILLINOIS STRUCTURAL NO. 7200
 EXPIRES: NOVEMBER 30, 2024

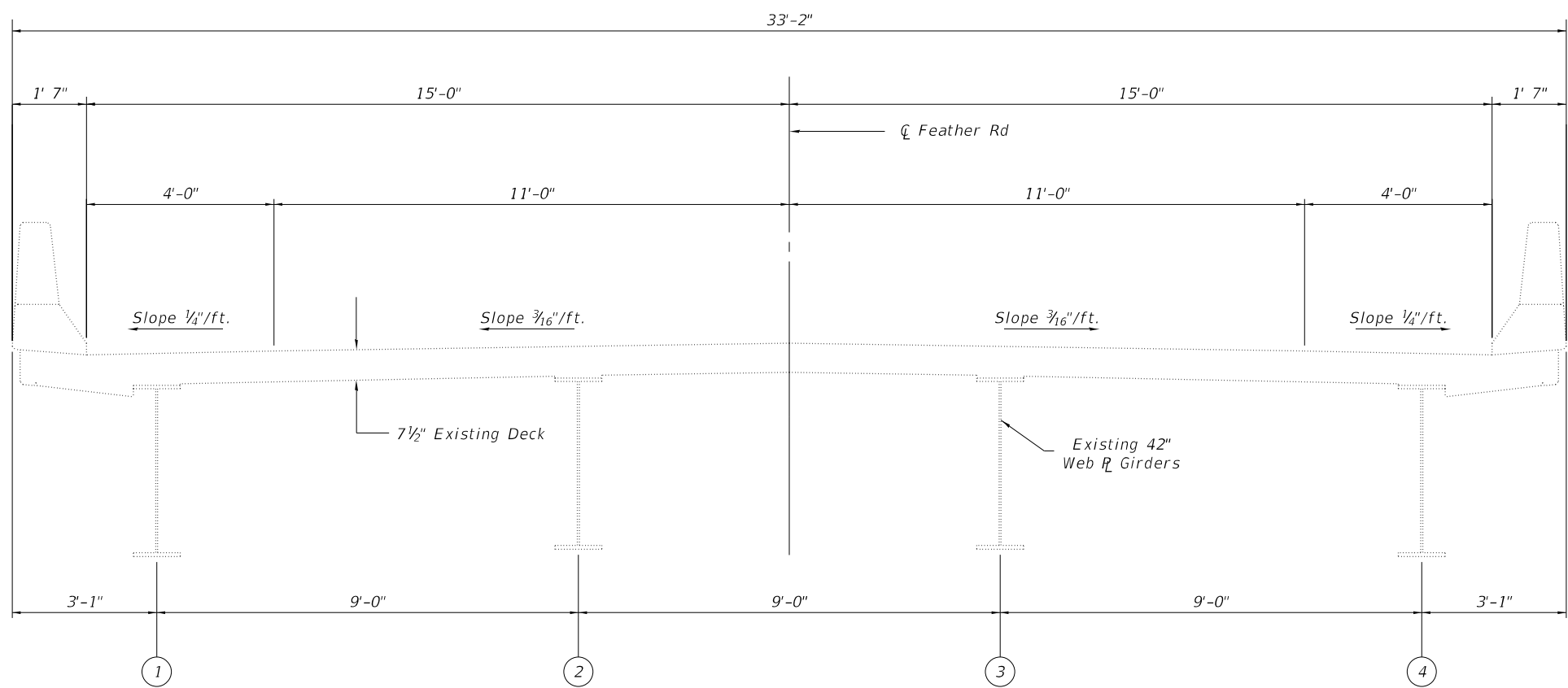


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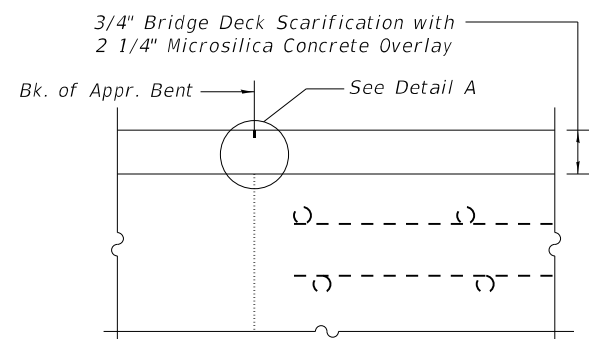
GENERAL PLAN & ELEVATION
FEATHER ROAD
OVER I-155
TAZEWELL COUNTY
STATION 100+00.00
STRUCTURE NO. 090-0137

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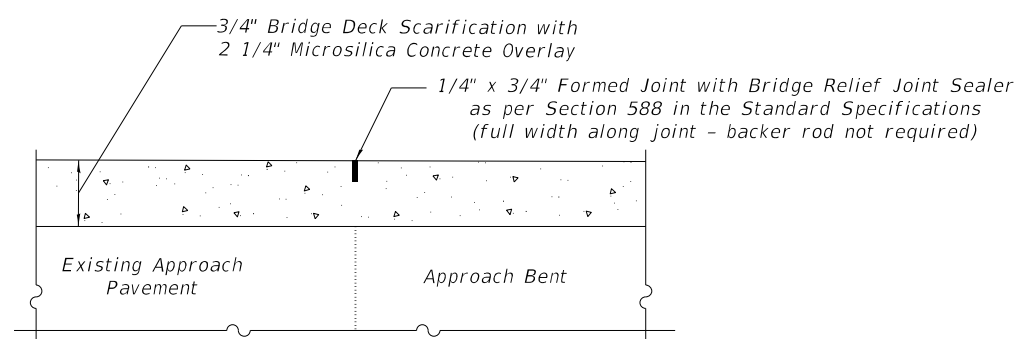
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		PLOT SCALE = _____	CHECKED - CJC	REVISED - _____			CONTRACT NO. 68H71				
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CROSS SECTION
(Looking East)



SECTION AT APPROACH



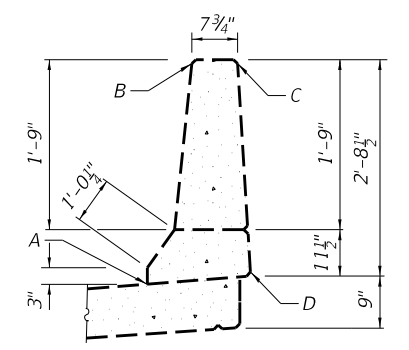
DETAIL A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Surface Filler (Special)	Gallon	9
Protective Coat (Special)	Sq. Yd.	593

NOTES

1. Surface Filler (Special) and Protective Coat (Special) shall be applied per the Special Provisions.
2. Protective Coat (Special) to cover from Point A through Points B, C and D of the Parapet.



PARAPET SEALING DETAIL

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HR
Hurst-Rosche, Inc.
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HILLSBORO, IL
PH: 217.532.3959
JOB NO. 192-1063

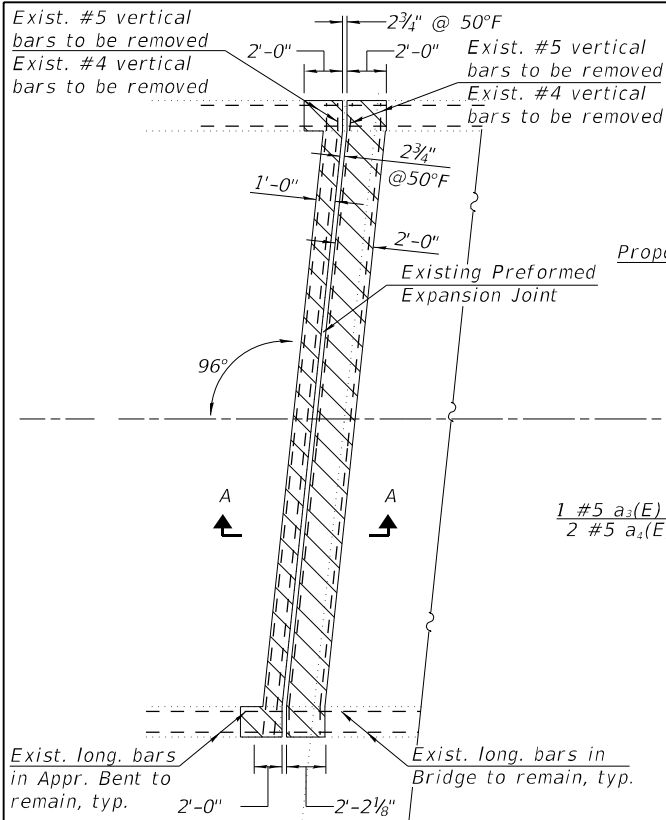
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	CHECKED - CJC	REVISED -

STATE OF ILLINOIS
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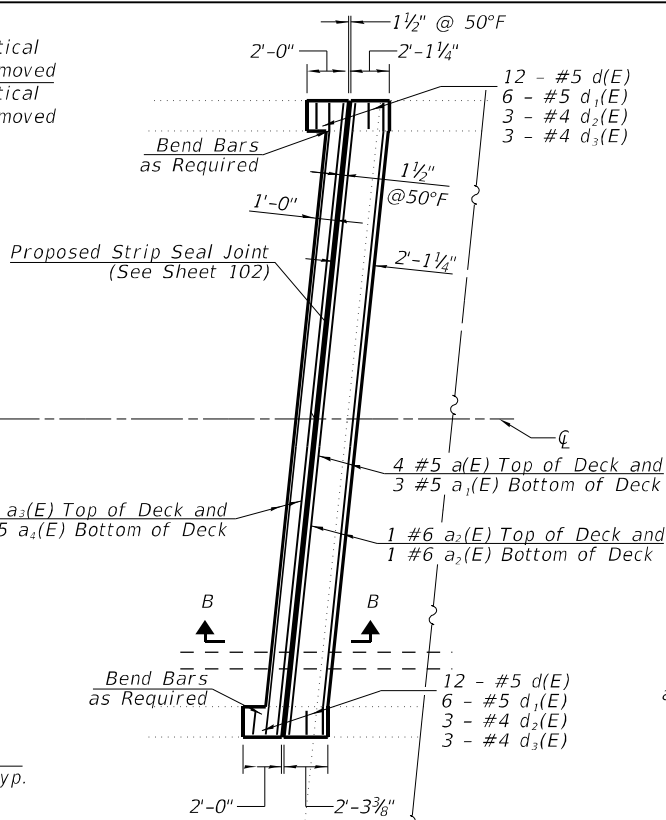
CROSS SECTION
STRUCTURE NO. 090-0137

SHEET 2 OF 6 SHEETS

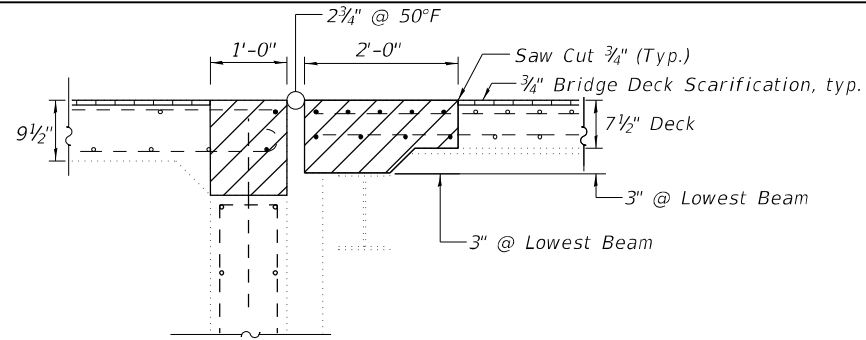
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155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	98
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



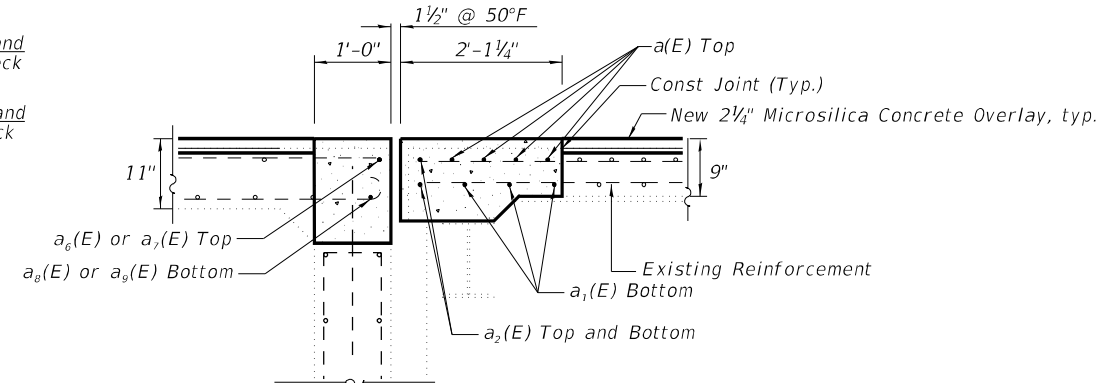
CONCRETE REMOVAL AT W. ABUT.



CONCRETE REPLACEMENT AT W. ABUT.



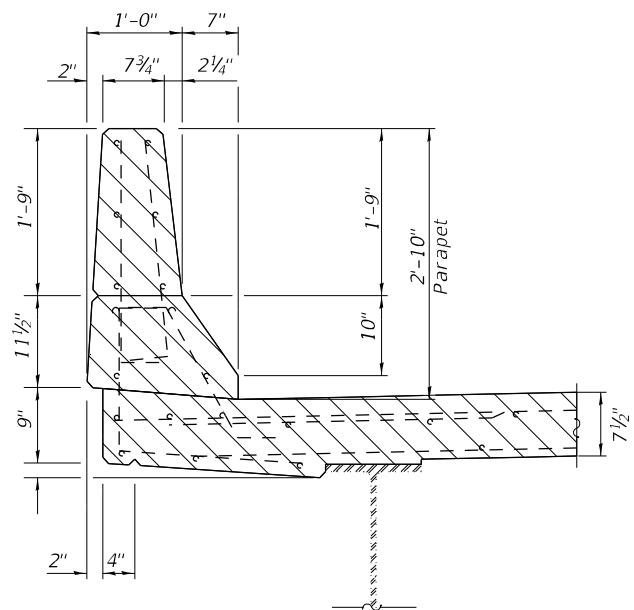
JOINT REMOVAL SECTION - A-A
(Dims. at Rt. L's to End of Deck)



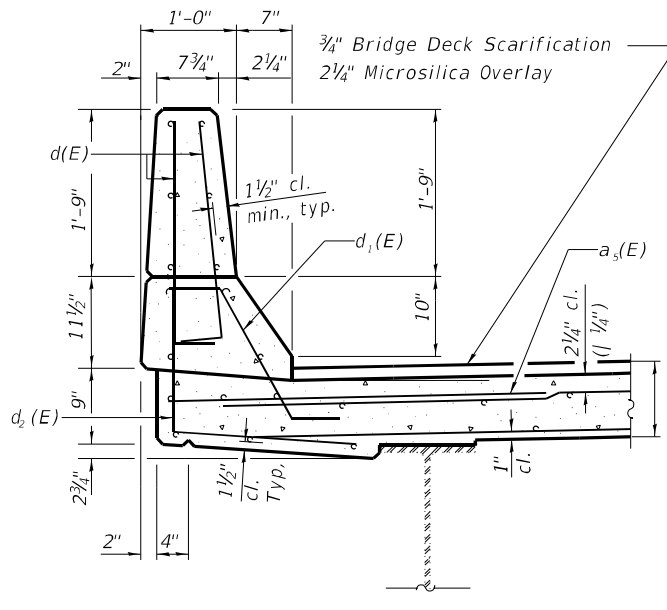
PROPOSED JOINT SECTION - B-B
(Dims. at Rt. L's to End of Deck)

**SUPERSTRUCTURE
BILL OF MATERIAL**

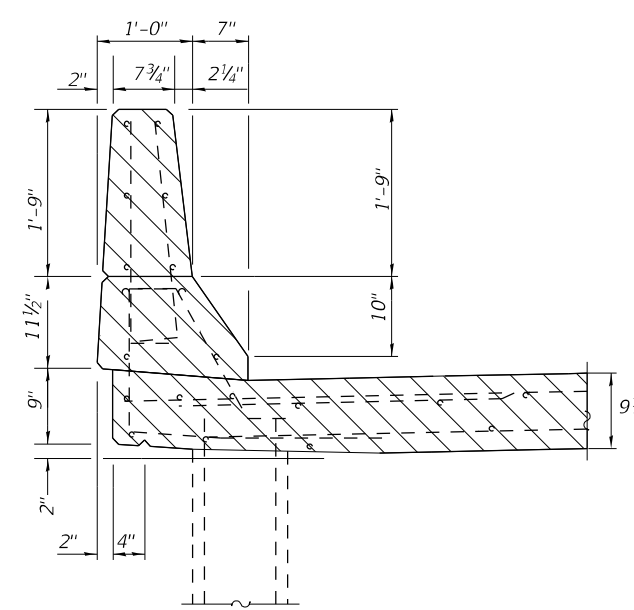
Bar	No.	Size	Length	Shape	
a(E)	4	#5	33'-1 1/4"	—	
a1(E)	3	#5	33'-1 1/4"	—	
a2(E)	2	#5	33'-1 1/4"	—	
a3(E)	1	#5	33'-1 1/4"	—	
a4(E)	1	#5	33'-1 1/4"	—	
a5(E)	5	#6	4'-0"	—	
d(E)	12	#5	3'-0"	—	
d1(E)	6	#5	2'-7"	—	
d2(E)	6	#4	4'-1"	—	
d3(E)	4	#4	4'-11"	—	
Reinforcement Bars, Epoxy Coated				Lbs.	510
Concrete Superstructure				Cu. Yds.	4.8
Concrete Removal				Cu. Yds.	4.2



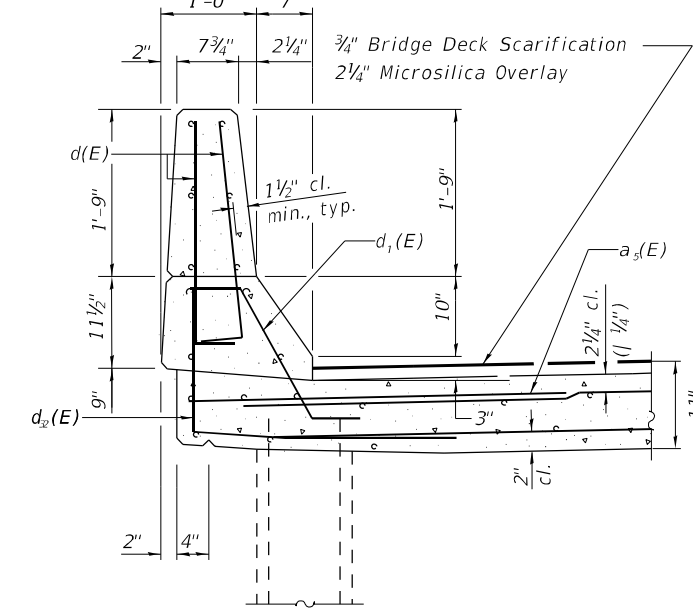
PARAPET REMOVAL CROSS SECTION



PARAPET REPLACEMENT CROSS SECTION



PARAPET REMOVAL CROSS SECTION
(At Approach Bent)



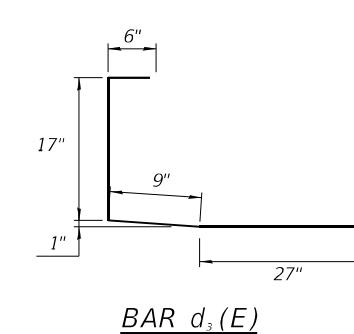
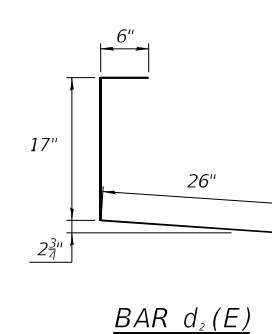
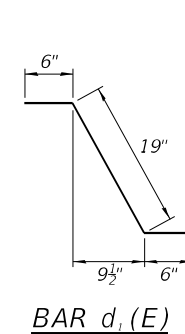
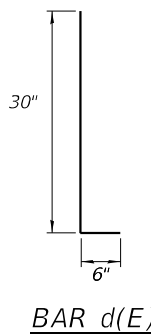
PARAPET REPLACEMENT CROSS SECTION
(At Approach Bent)

NOTES

- Hatched areas indicate Concrete Removal.
- Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Sheet 25 of 31.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- In parapet removal areas, existing reinforcing shall remain and be re-incorporated into the new parapets.
- Cut reinforcing bars in field to fit as required.

LEGEND

- Concrete Removal
- Bridge Deck Scarification, 3/4"
- Concrete Superstructure



BAR d(E)

BAR d1(E)

BAR d2(E)

BAR d3(E)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST EXPANSION JOINT REMOVAL & REPLACEMENT
STRUCTURE NO. 090-0137

SHEET 3 OF 6 SHEETS

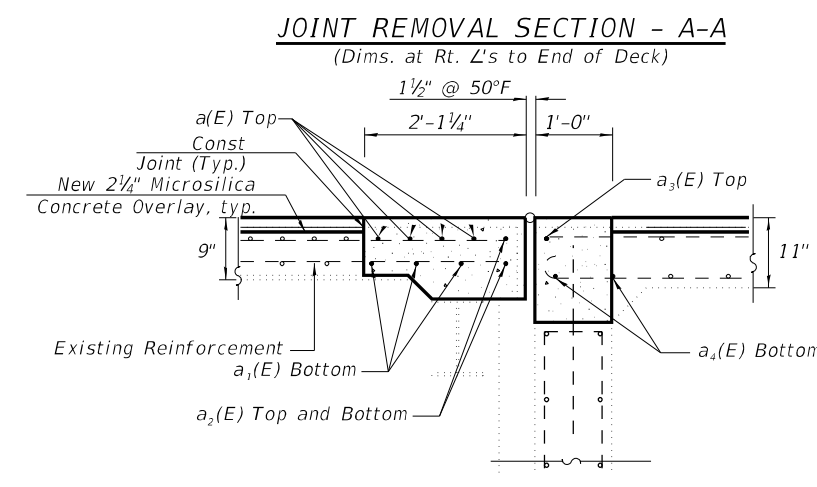
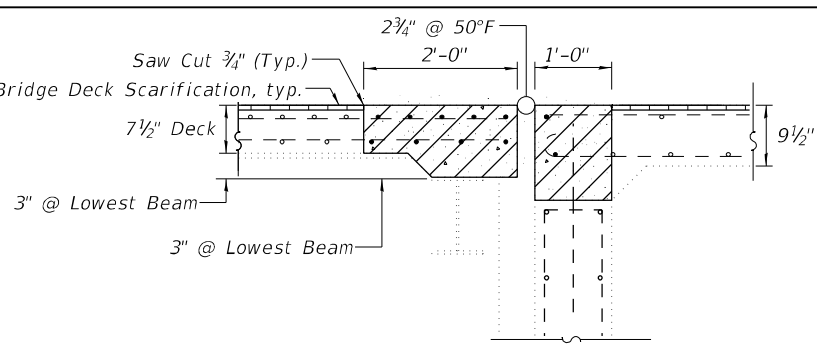
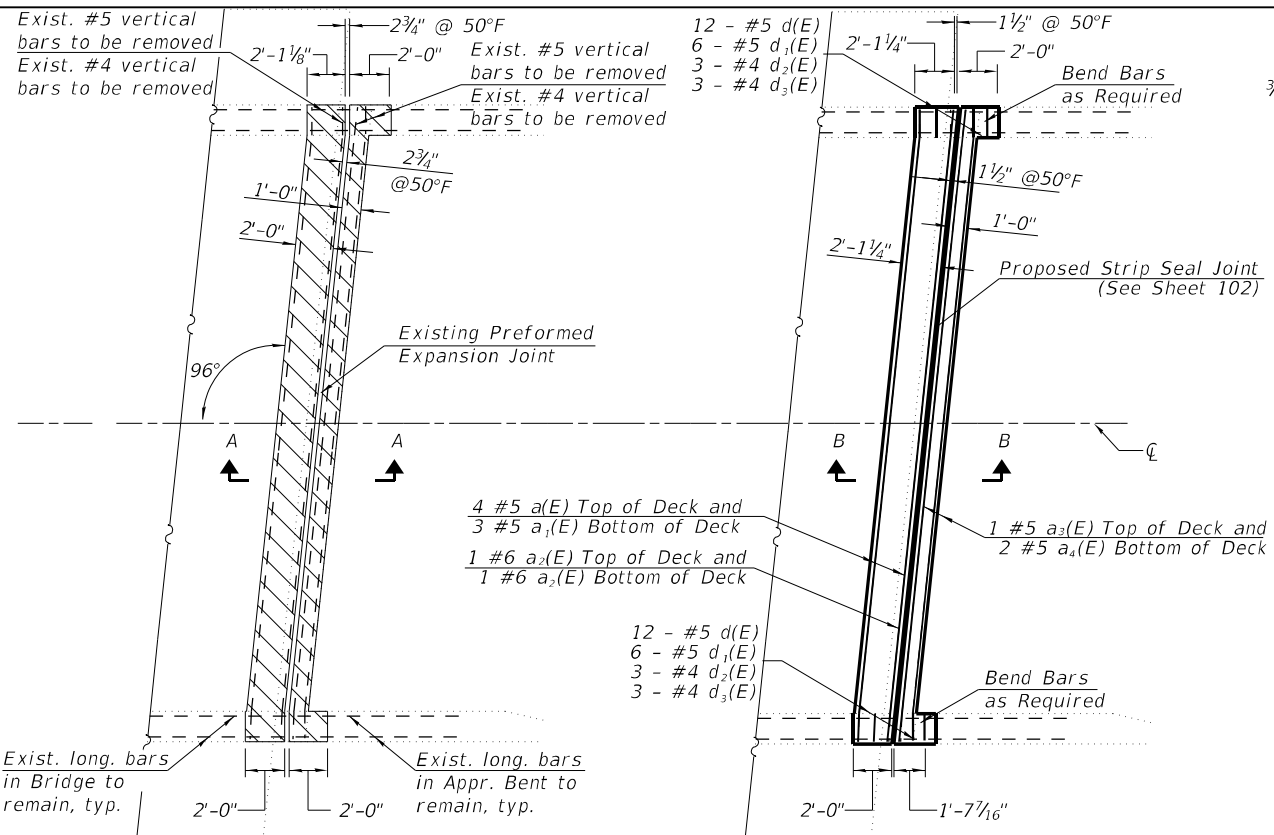
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155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	99
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

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HR Hurst-Rosche, Inc.
1400 E. TREMONT ST.
HILLSBORO, IL
PH: 217.532.3959
JOB NO. 192-1063

USER NAME =	DESIGNED - JJC	REVISED -
PLOT SCALE =	CHECKED - CJC	REVISED -
PLOT DATE =	DRAWN - AE	REVISED -
	CHECKED - CJC	REVISED -

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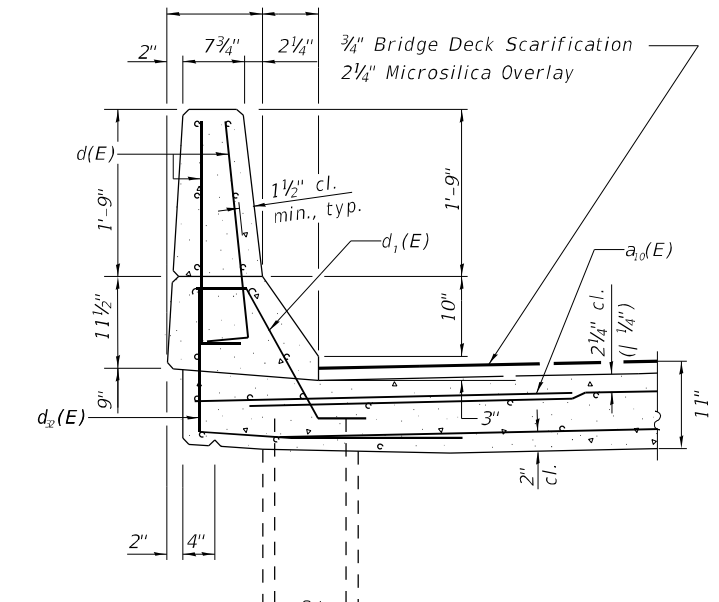
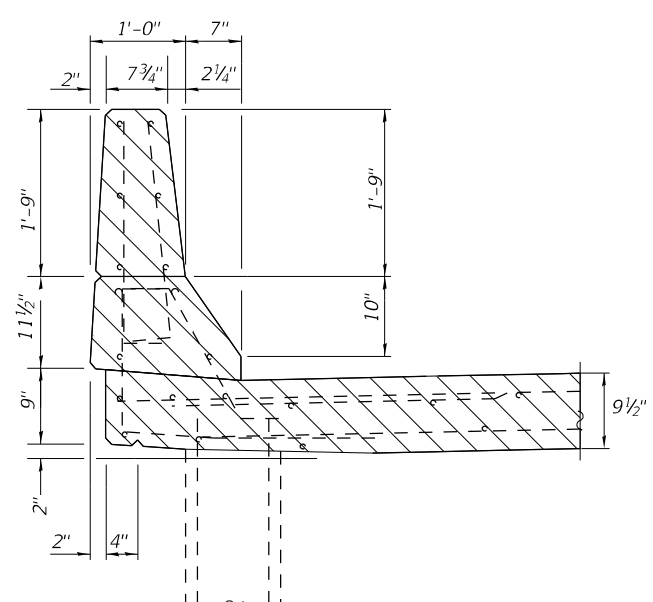
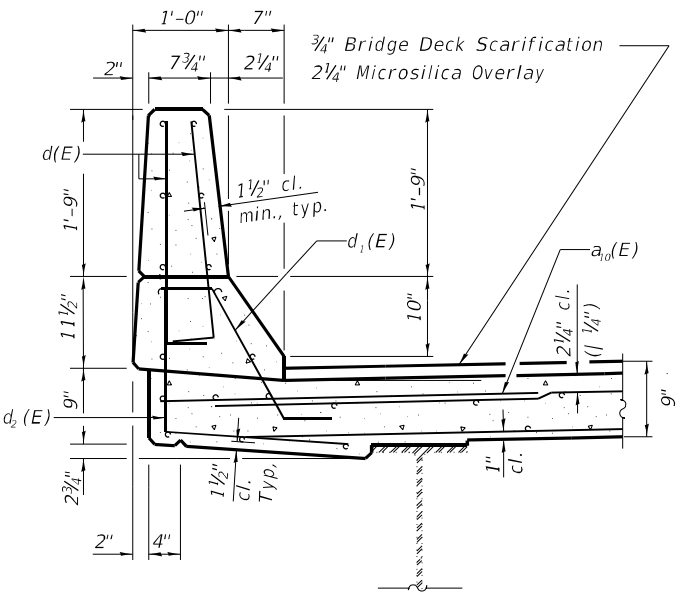
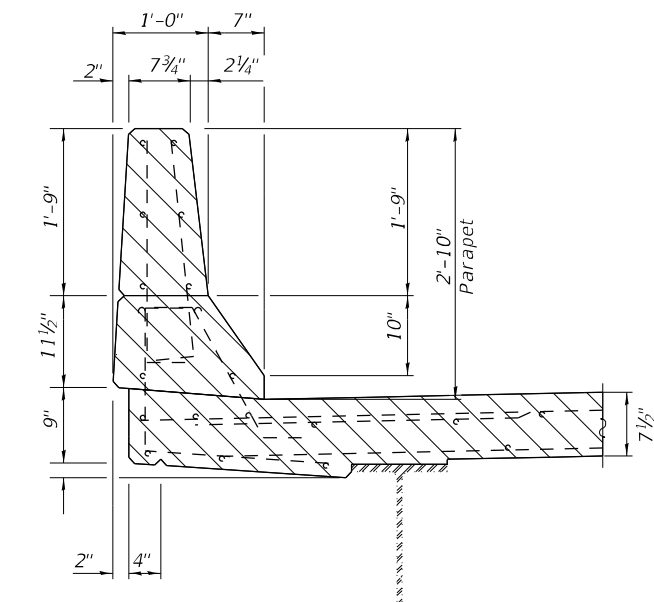


SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	4	#5	33'-1 1/4"	—
a1(E)	3	#5	33'-1 1/4"	—
a2(E)	2	#5	33'-1 1/4"	—
a3(E)	1	#5	33'-1 1/4"	—
a4(E)	2	#5	33'-1 1/4"	—
a5(E)	12	#6	4'-0"	—
d(E)	12	#5	3'-0"	—
d1(E)	6	#5	2'-7"	—
d2(E)	6	#4	4'-1"	—
d3(E)	6	#4	4'-11"	—
Reinforcement Bars, Epoxy Coated			Lbs.	510
Concrete Superstructure			Cu. Yds.	4.8
Concrete Removal			Cu. Yds.	4.2

CONCRETE REMOVAL AT E. ABUT.

CONCRETE REPLACEMENT AT E. ABUT.



PARAPET REMOVAL CROSS SECTION

PARAPET REPLACEMENT CROSS SECTION

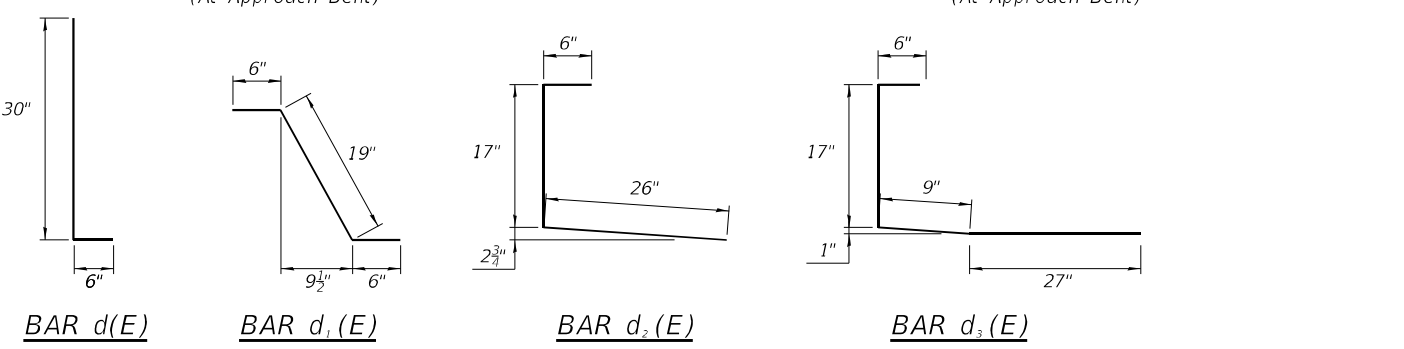
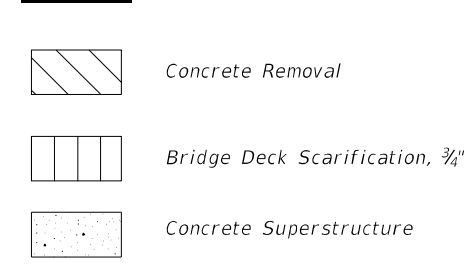
PARAPET REMOVAL CROSS SECTION (At Approach Bent)

PARAPET REPLACEMENT CROSS SECTION (At Approach Bent)

NOTES

- Hatched areas indicate Concrete Removal.
- Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Sheet 25 of 31.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- A 6"x6" blockout will be permitted in the base of the parapet at the expansion joint in order to facilitate joint seal installation.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- In parapet removal areas, existing reinforcing shall remain and be re-incorporated into the new parapets.
- Cut reinforcing bars in field to fit as required.

LEGEND



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EAST EXPANSION JOINT REMOVAL & REPLACEMENT STRUCTURE NO. 090-0137

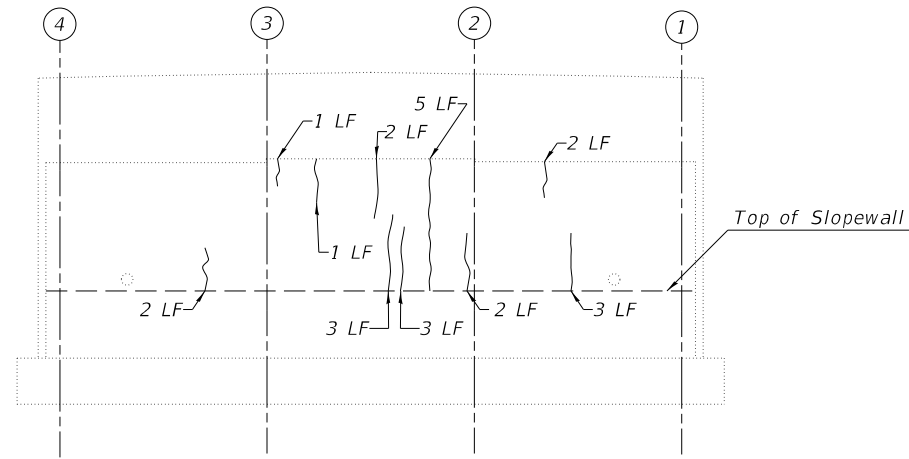
SHEET 4 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	100
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

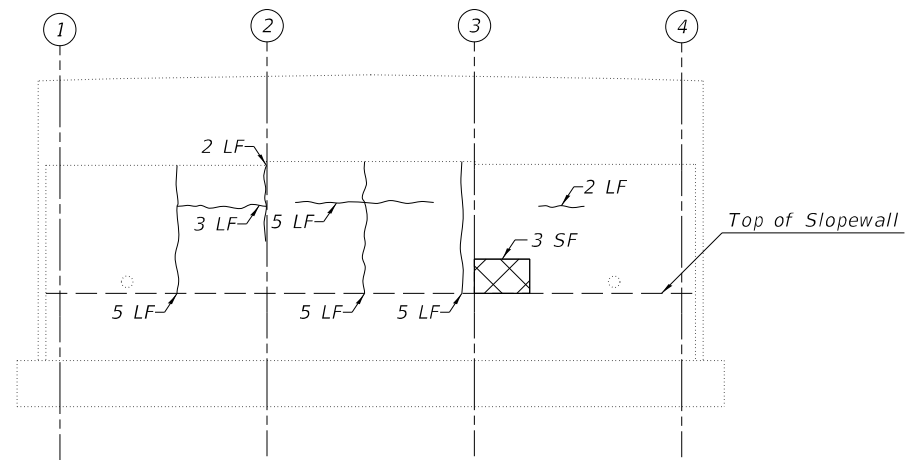
HR Hurst-Rosche, Inc.
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

USER NAME =	DESIGNED - JJC	REVISED -
PLOT SCALE =	CHECKED - CJC	REVISED -
PLOT DATE =	DRAWN - AE	REVISED -
	CHECKED - CJC	REVISED -

Notes:
 1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
 2. SF = Square Feet



West Abutment
 (Looking West)



East Abutment
 (Looking East)

LEGEND

- H Hairline Crack
- ~ Epoxy Crack Injection
- ▣ Structural Repair of Concrete (Depth Equal To or Less Than 5 inches)
- SF - Square Foot
- LF - Linear Foot

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	51
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft.	3

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HR
 Hurst-Rosche, Inc.
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

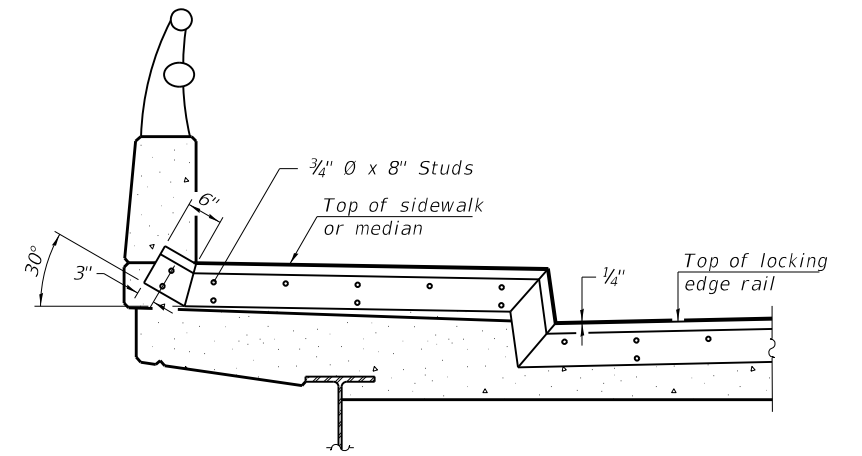
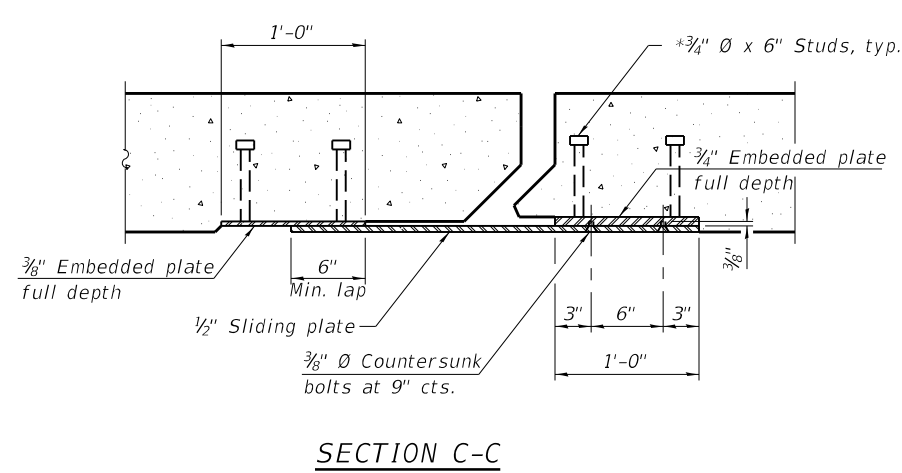
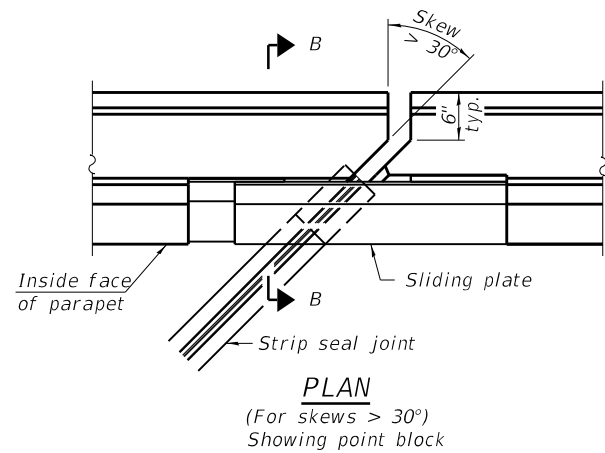
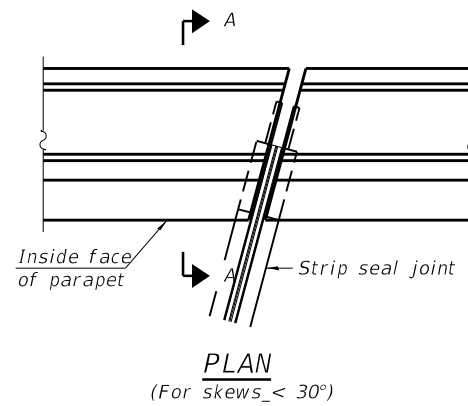
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	CHECKED - CJC	REVISED - _____
PLOT SCALE = _____	DRAWN - AE	REVISED - _____
PLOT DATE = _____	CHECKED - JJC	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIR DETAILS
STRUCTURE NO. 090-0137

SHEET 5 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	101
CONTRACT NO. 68H71				
ILLINOIS		FED. AID PROJECT		



TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

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

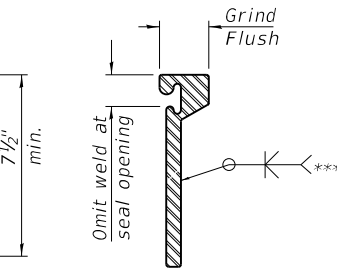
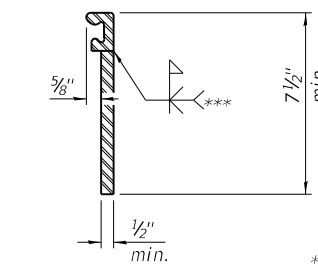
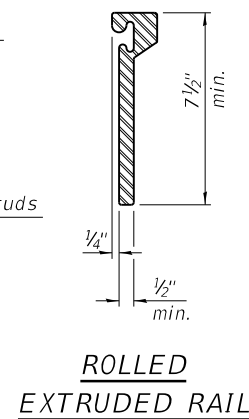
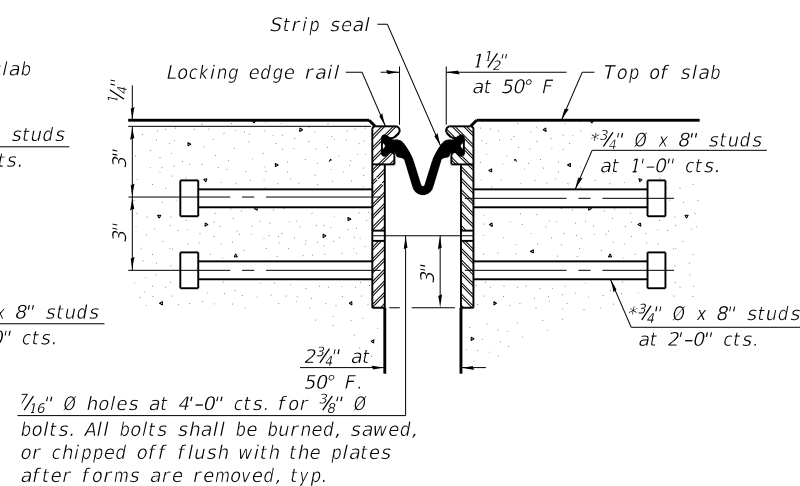
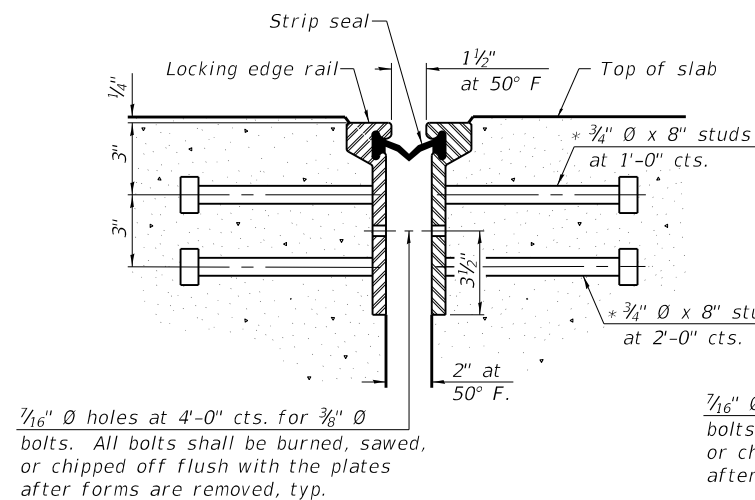
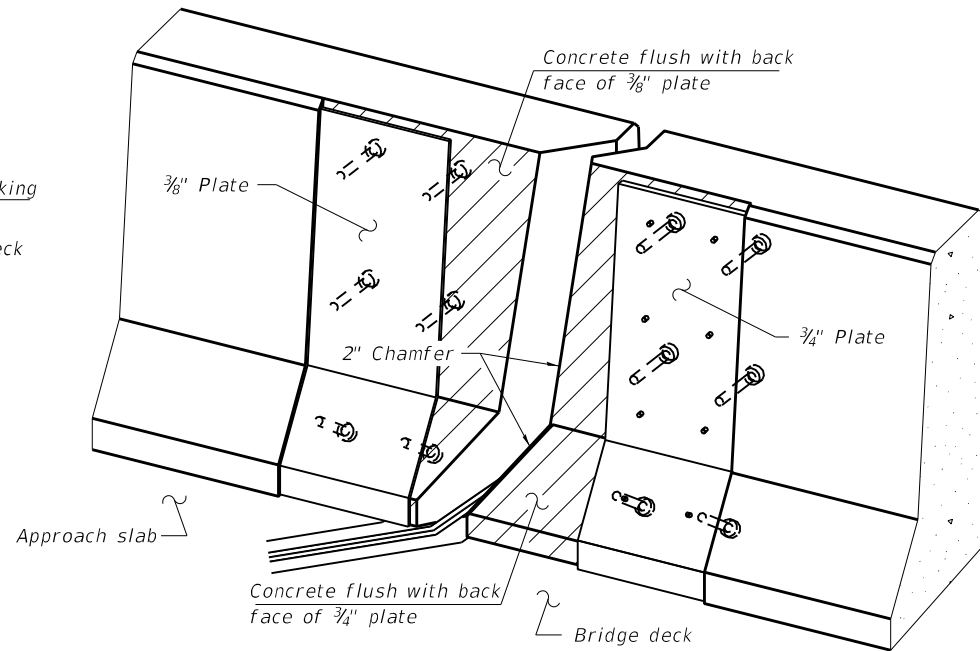
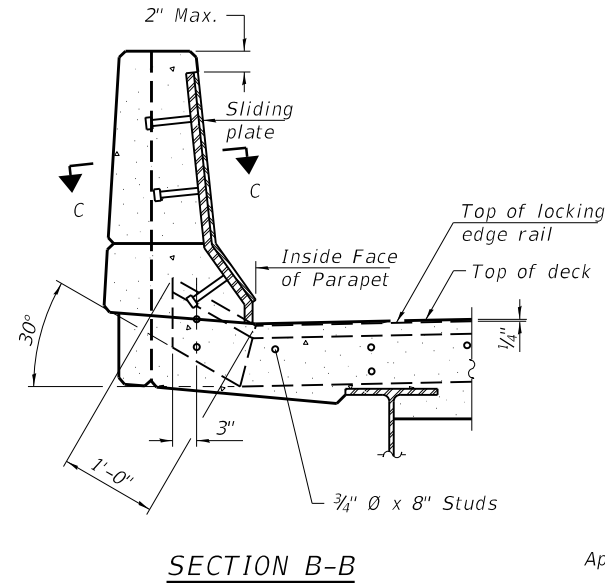
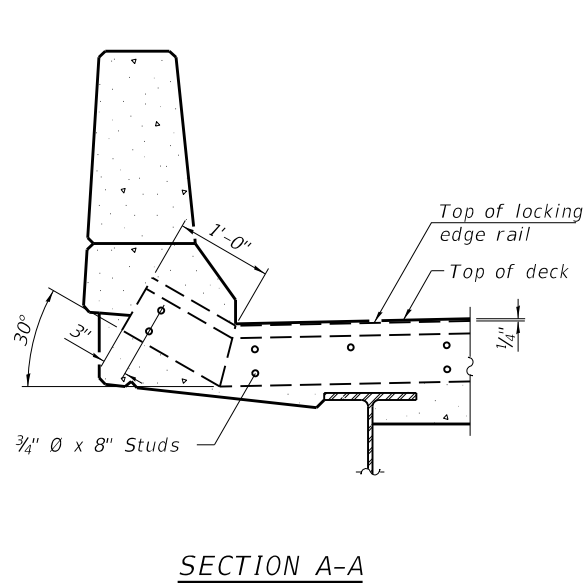
The manufacturer's recommended installation methods shall be followed.

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

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



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

LOCKING EDGE RAILS

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	65

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HR
Hurst-Rosche, Inc.
1400 E. TREMONT ST.
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PH: 217.532.3959
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USER NAME =	DESIGNED - JJC	REVISED -
PLOT SCALE =	CHECKED - CJC	REVISED -
PLOT DATE =	DRAWN - AE	REVISED -
	CHECKED - CJC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 090-0137**

SHEET 6 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	102
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

Benchmark:
USGS BM on Minier Quad. F.A. Rte. 406 Sta. 891+26, 184' Lt., Elev. 686.14

Existing Structure No. 090-0138:

The existing structure is a two span bridge with a 7 1/2" concrete deck supported by 42" Web Plate Girders. The structure was constructed in 1988 as Section 90-(126X)HB. The superstructure is supported by closed vaulted abutments. It has an out to out deck width of 65'-2" and a 183'-7" back to back abutment length.

SCOPE OF WORK

1. Implement Traffic Control and shift EB and WB traffic to the North side of the structure
2. Install Permanent Protective Shield above the NB and SB I-155 as indicated on the plans
3. Remove Inlet Grates and Replace with RipRap Swales per civil sheets
4. Perform Bridge Deck Scarification 3/4"
5. Perform Deck Slab and Concrete Median Repairs as indicated on the Plans, Fill Relief Joint Cracks as Needed
6. Perform Expansion Joint Reconstruction
7. Perform Bridge Deck Microsilica Concrete Overlay 2 1/4"
8. Shift EB and WB Traffic to the South Side of the Structure and repeat Items 3 through 7 above
9. Perform Abutment Repairs at locations indicated on Plans

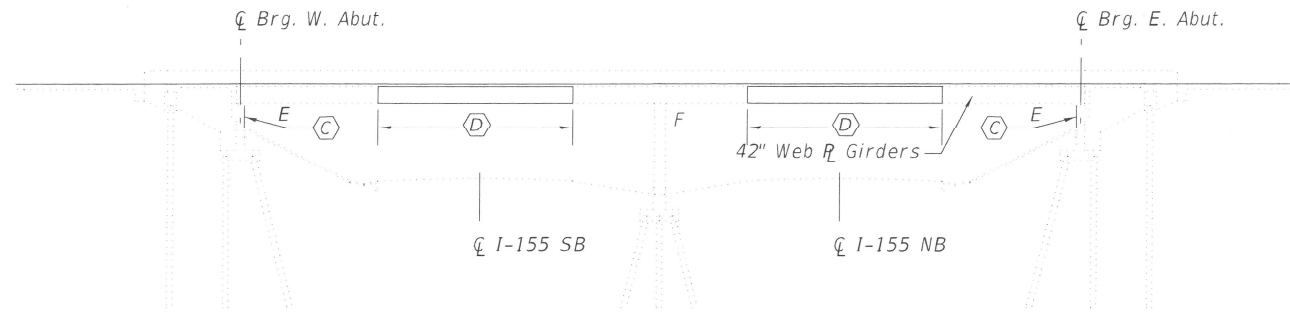
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	16.6
Concrete Superstructure	Cu. Yd.	18.8
Bridge Deck Grooving	Sq. Yd.	2075
Protective Coat	Sq. Yd.	2277
Reinforcement Bars, Epoxy Coated	Lbs	1700
Bar Splicers	Each	18
Preformed Joint Strip Seal	Foot	128
Epoxy Crack Injection	Foot	76
* Protective Shield (Permanent)	Sq. Yd.	609
* Surface Filler (Special)	Gallon	9
* Protective Coat (Special)	Sq. Yd.	555
* Bridge Deck Scarification 3/4"	Sq. Yd.	2239
* Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq. Yd.	2239
* Concrete Median Repair	Sq. Ft.	679
* Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	108
* Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	11
Drainage Scuppers to Be Adjusted	Each	6
* Slopewall Slurry Pumping	Cu. Yd.	8.5

* Denotes Special Provisions

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction
3. Deck Repair Plan
4. West Expansion Joint Removal & Replacement (1 of 2)
5. West Expansion Joint Removal & Replacement (2 of 2)
6. East Expansion Joint Removal & Replacement (1 of 2)
7. East Expansion Joint Removal & Replacement (2 of 2)
8. Abutment Repair Details
9. Scupper Adjustment Details
10. Preformed Joint Strip Seal
11. Bar Splice Assembly and Mechanical Splicers Details
12. Permanent Protective Shield



ELEVATION

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck for expansion joint reconstruction and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose 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 paid for according to Article 109.04 of the Standard Specifications.

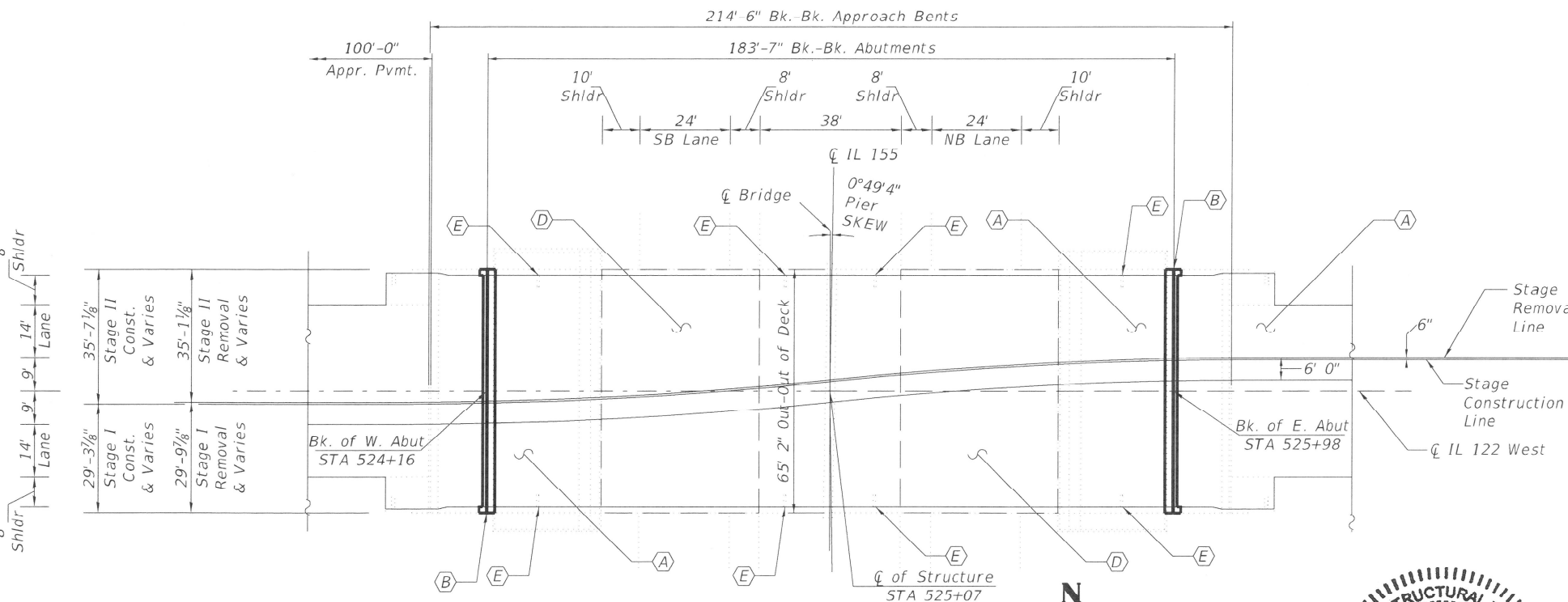
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to the existing structure have been taken from existing plans and 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 variation shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

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

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.



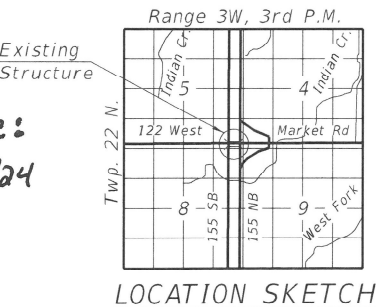
PLAN

KEYED NOTES

- (A) Bridge Deck Scarification 3/4" and 2 1/4" Microsilica Concrete Overlay
- (B) Expansion Joint Replacement
- (C) Structural Repair of Abutments
- (D) Permanent Protective Shielding
- (E) Drainage Scuppers To Be Adjusted

LEGEND

- Expansion Joint Replacement
- Limits of 3/4" Scarification and 2 1/4" Microsilica Concrete Overlay
- — Limits of Protective Shield (Permanent)



LOCATION SKETCH

LICENSED STRUCTURAL ENGINEER
CHASE J. CONNOR
 081-7200
 CHASE J. CONNOR, P.E., S.E.
 ILLINOIS STRUCTURAL NO. 7200
 EXPIRES: NOVEMBER 30, 2024

Date: 2/9/24

GENERAL PLAN & ELEVATION
IL 122 WEST
OVER I-155
TAZEWELL COUNTY
STATION 525+07.00
STRUCTURE NO. 090-0138

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

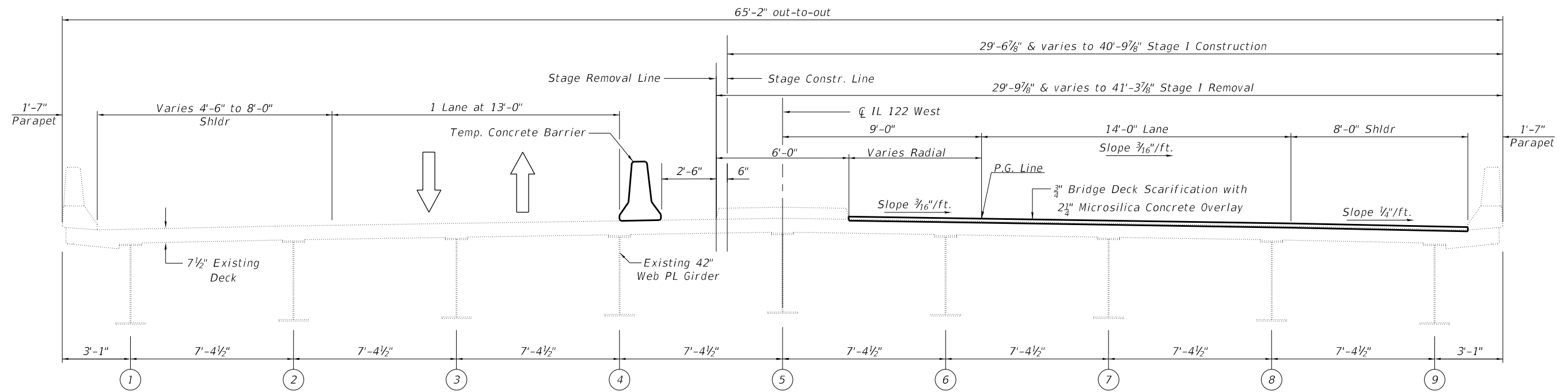
GENERAL PLAN & ELEVATION
STRUCTURE NO. 090-0138
 SHEET 1 OF 12 SHEETS

F.A.I. RTE. 155	SECTION D4 BRIDGE JOINT REPAIR	COUNTY TAZEWELL	TOTAL SHEETS 123	SHEET NO. 103
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H71	

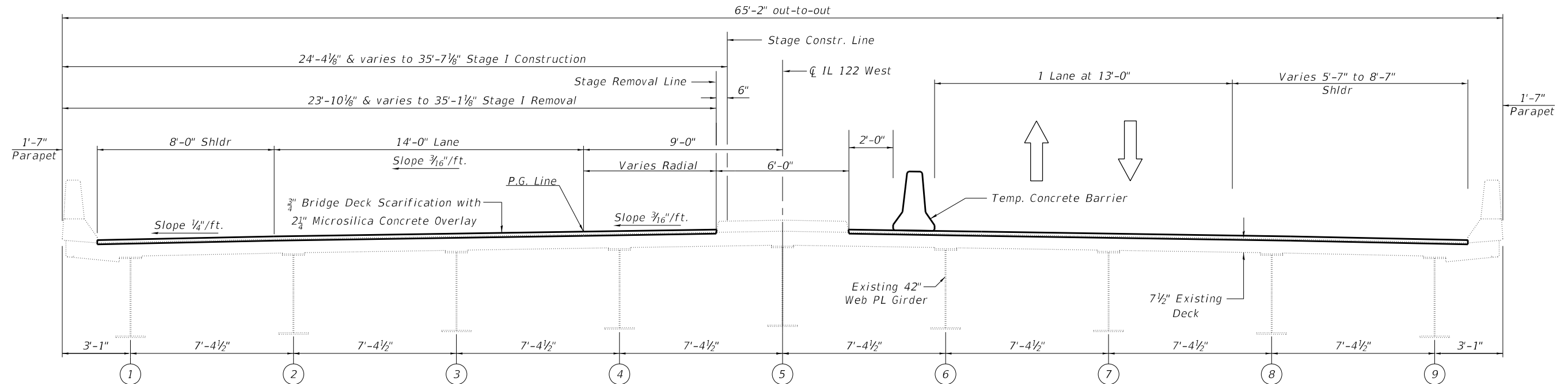
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HR
 Hurst-Rosche, Inc.
 PROFESSIONAL ENGINEERS & ARCHITECTS
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

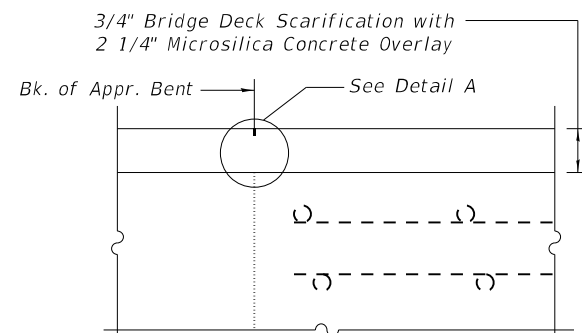
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	CHECKED - CJC	REVISD -



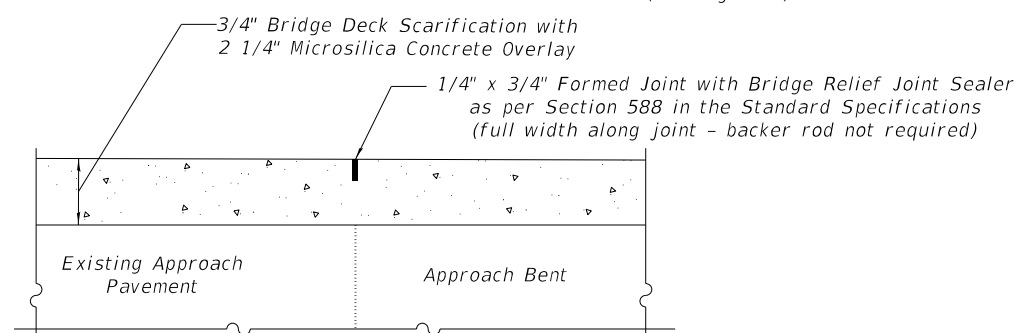
STAGE I REMOVAL AND CONSTRUCTION
(Looking East)



STAGE II REMOVAL AND CONSTRUCTION
(Looking East)



SECTION AT APPROACH



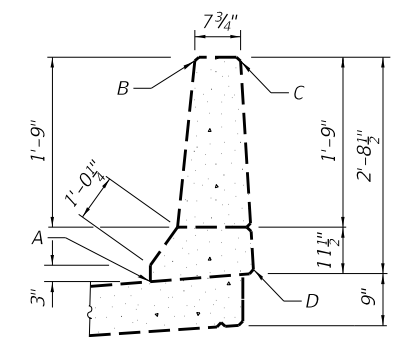
DETAIL A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Protective Coat (Special)	Sq. Yd.	555
Surface Filler (Special)	Gallon	9

NOTES

- Surface Filler (Special) and Protective Coat (Special) shall be applied per the Special Provisions.
- Protective Coat (Special) to cover from Point A through Points B, C and D of the Parapet.



PARAPET SEALING DETAIL

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USER NAME =	DESIGNED - JJC	REVISED -
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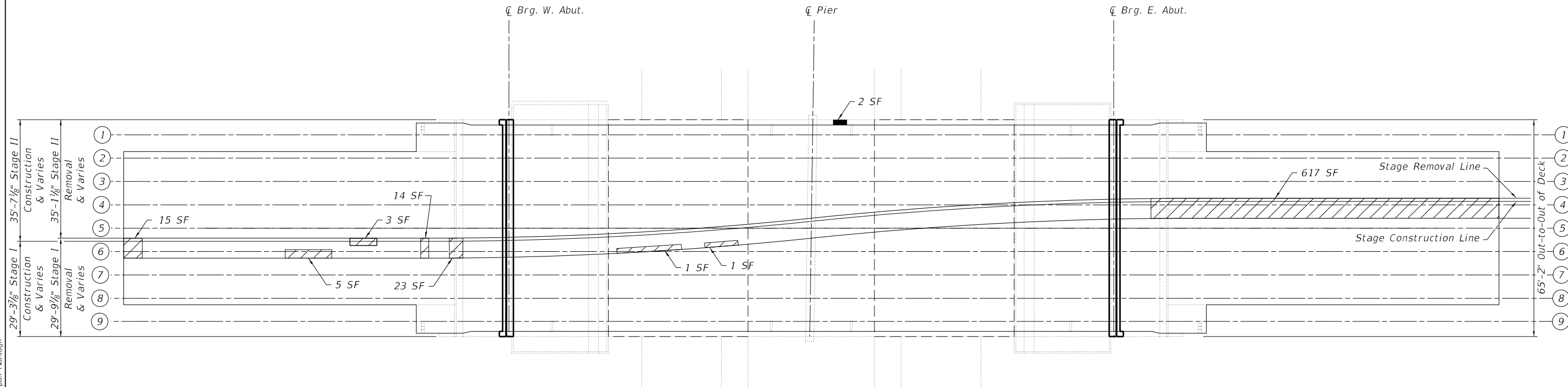
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION
STRUCTURE NO. 090-0138**

SHEET 2 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	104
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

- Notes:
1. Locations and dimensions shown are approximate. The Engineer will determine final patch locations and quantities 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. All Concrete Median Repair is to occur during stage I as shown in the plans.
 4. SF = Square Feet



LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Concrete Median Repair
- Limits of Protective Shielding (Permanent)

DECK REPAIR PLAN

BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq. Yd.	2277
Protective Shield (Permanent)	Sq. Yd.	609
Bridge Deck Scarification	Sq. Yd.	2239
Bridge Deck Microsilica Overlay	Sq. Yd.	2239
Concrete Median Repair	Sq. Ft.	679
Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)	Sq. Ft.	2

MODEL: \$MODELNAME\$ FILE NAME: X:\Projects\Current\192-1063 IDOT D4 W02 PTB206-30 Various Bridges Preservation\DGN\68H71090-0138\0900138_03_deck_repair_Plan.dgn

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	CHECKED - CJC	REVISED - _____
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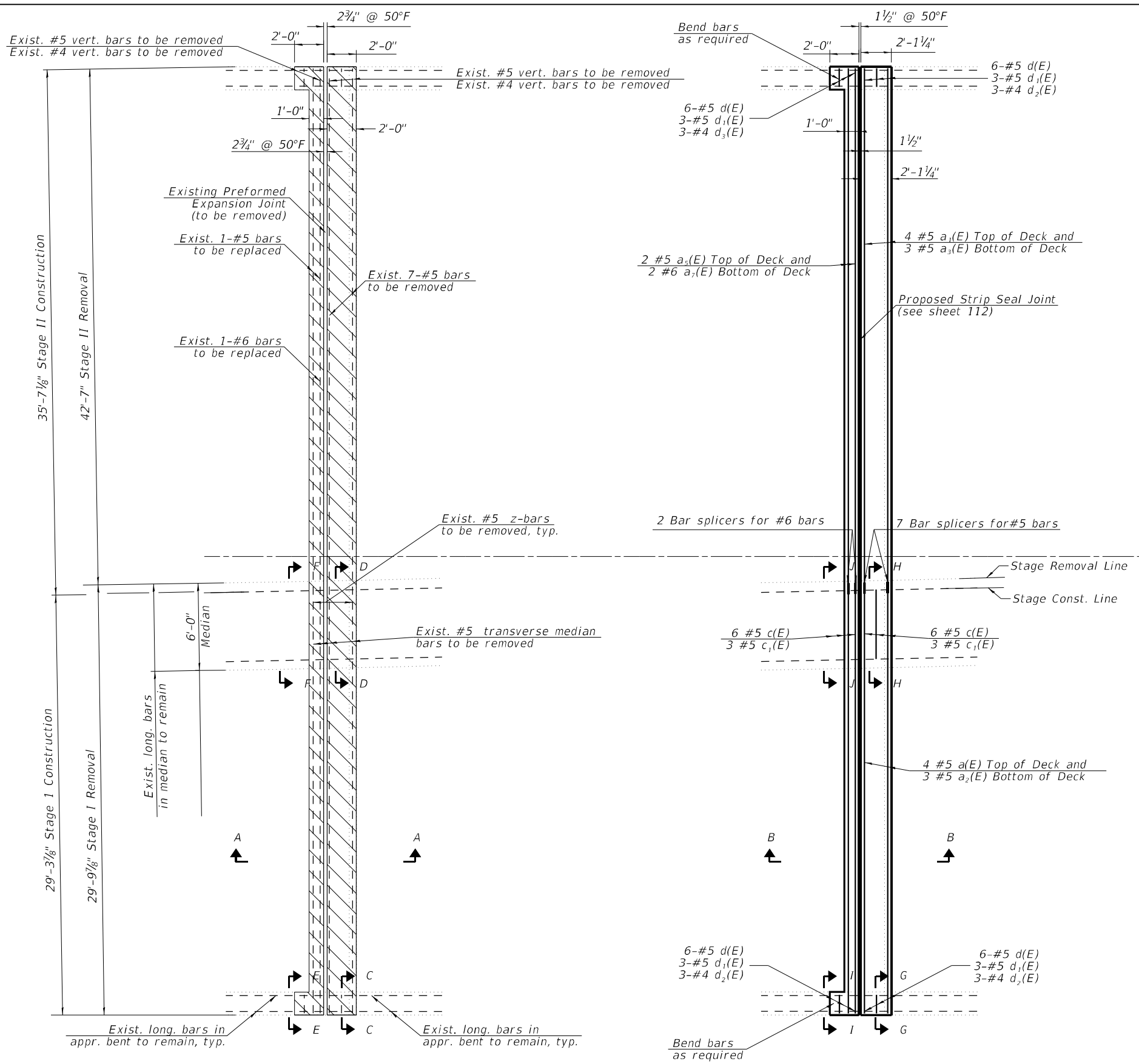
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR PLAN
 STRUCTURE NO. 090-0138**

SHEET 3 OF 12 SHEETS

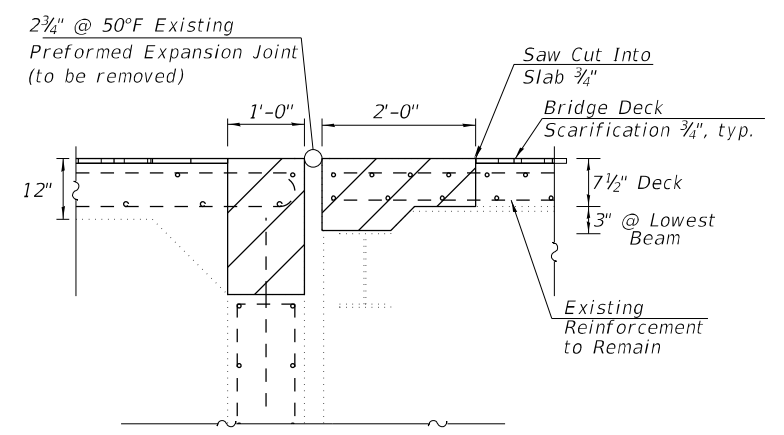
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155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	105
CONTRACT NO. 68H71				
ILLINOIS		FED. AID PROJECT		

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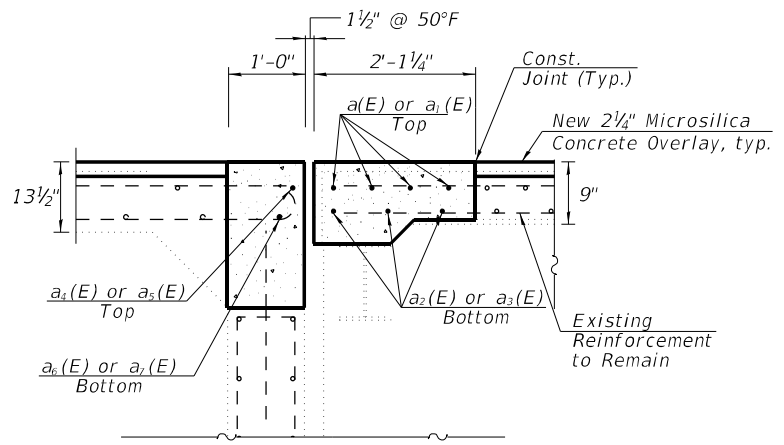


CONCRETE REMOVAL AT W. ABUT.

CONCRETE REPLACEMENT AT W. ABUT.

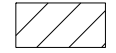




JOINT REMOVAL SECTION - A-A
 (Dims. at Rt. Z's to End of Deck)



PROPOSED JOINT SECTION - B-B
 (Dims. at Rt. Z's to End of Deck)

LEGEND

-  Concrete Removal
-  Bridge Deck Scarification, 3/4"
-  Concrete Superstructure

NOTES

1. See Sheet 107 for sections C-C through J-J, Bar Diagrams, and Bill of Materials.

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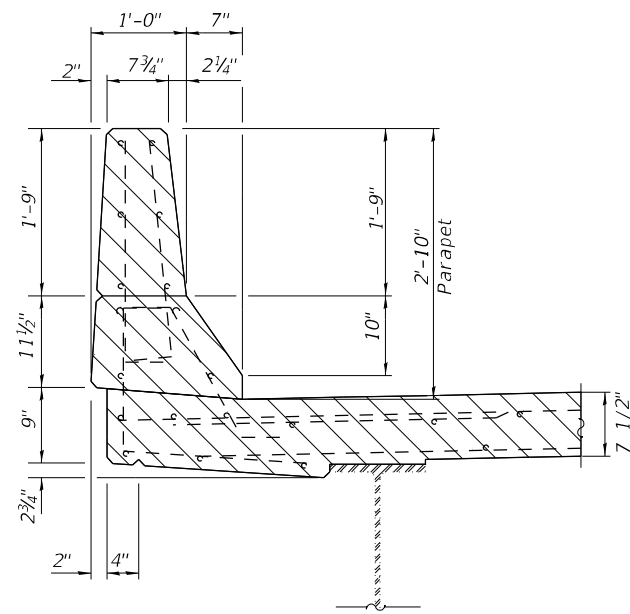
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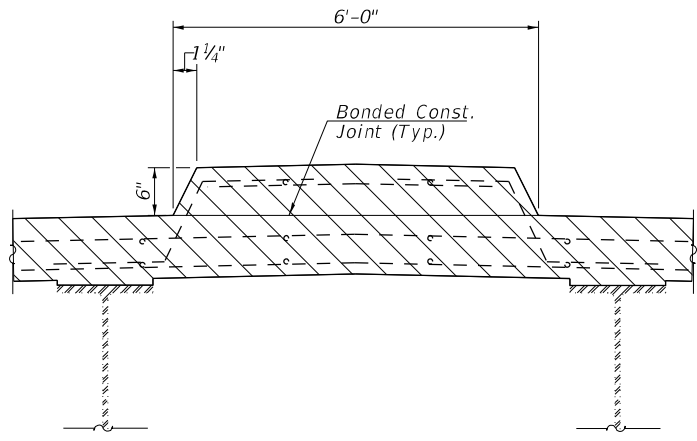
WEST EXPANSION JOINT REMOVAL & REPLACEMENT (1 OF 2)
 STRUCTURE NO. 090-0138
 SHEET 4 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	106
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

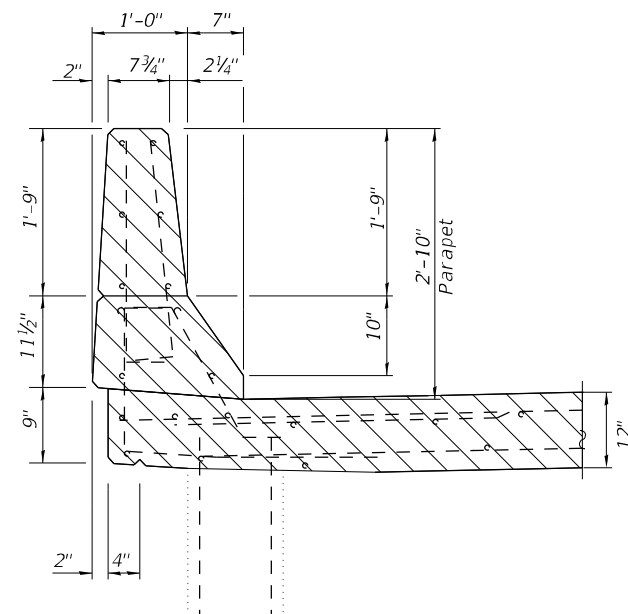
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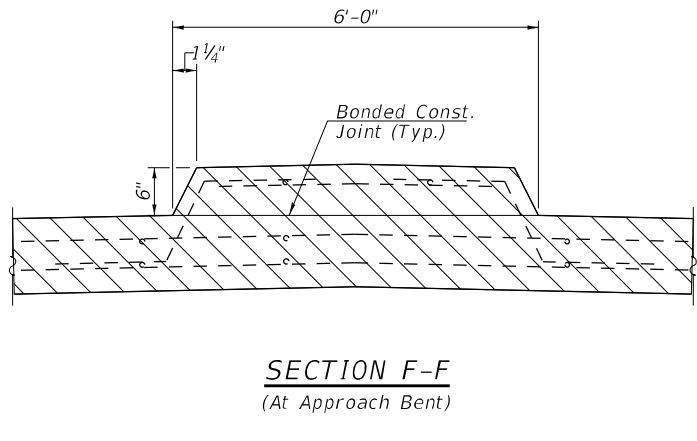
SECTION C-C



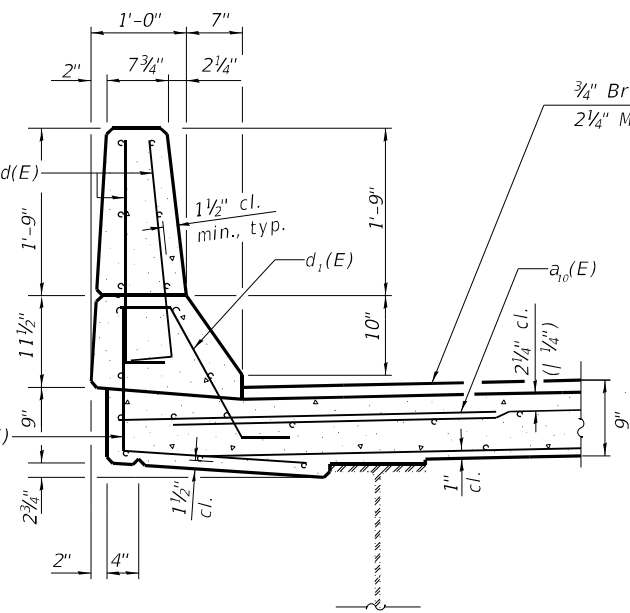
SECTION D-D



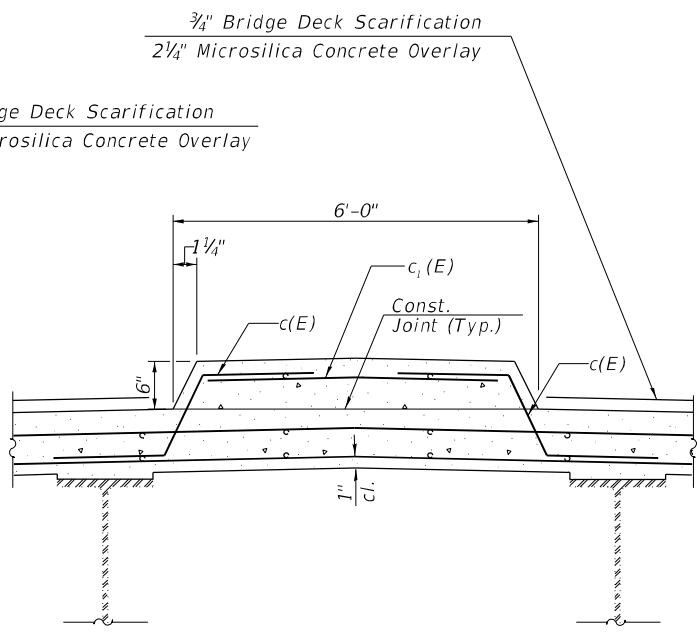
SECTION E-E
(At Approach Bent)



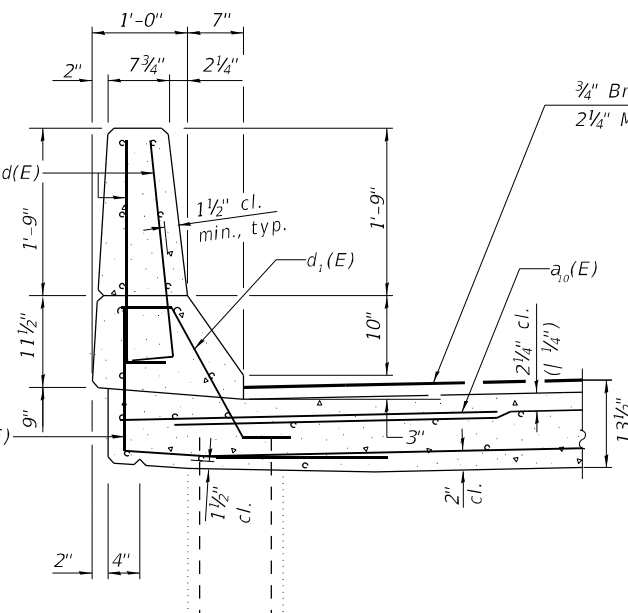
SECTION F-F
(At Approach Bent)



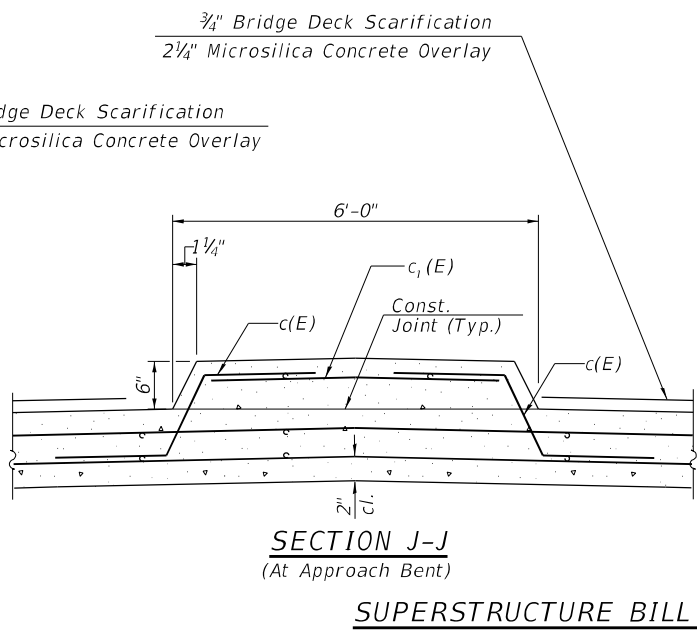
SECTION G-G



SECTION H-H



SECTION I-I
(At Approach Bent)



SECTION J-J
(At Approach Bent)

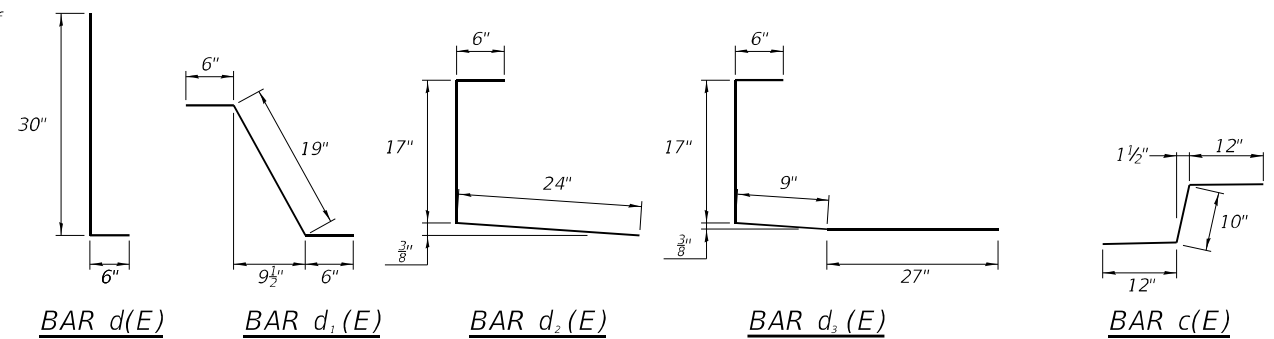
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	4	#5	29'-3"	—
a1(E)	4	#5	35'-8"	—
a2(E)	3	#5	29'-3"	—
a3(E)	3	#5	35'-8"	—
a4(E)	1	#5	29'-3"	—
a5(E)	1	#5	35'-8"	—
a6(E)	1	#6	29'-3"	—
a7(E)	1	#6	35'-8"	—
a8(E)	10	#6	4'-0"	—
c(E)	10	#5	2'-10"	—
c1(E)	5	#5	5'-6"	—
d(E)	12	#5	3'-0"	—
d1(E)	6	#5	2'-7"	—
d2(E)	6	#4	3'-11"	—
d3(E)	6	#4	4'-11"	—
Reinforcement Bars, Epoxy Coated			Lbs.	850
Concrete Superstructure			Cu. Yds.	9.4
Concrete Removal			Cu. Yds.	8.3

NOTES

- Hatched areas indicate Concrete Removal.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- In parapet removal areas, existing reinforcing shall remain and be re-incorporated into the new parapets.
- Cut reinforcing bars in field to fit as required.

LEGEND



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

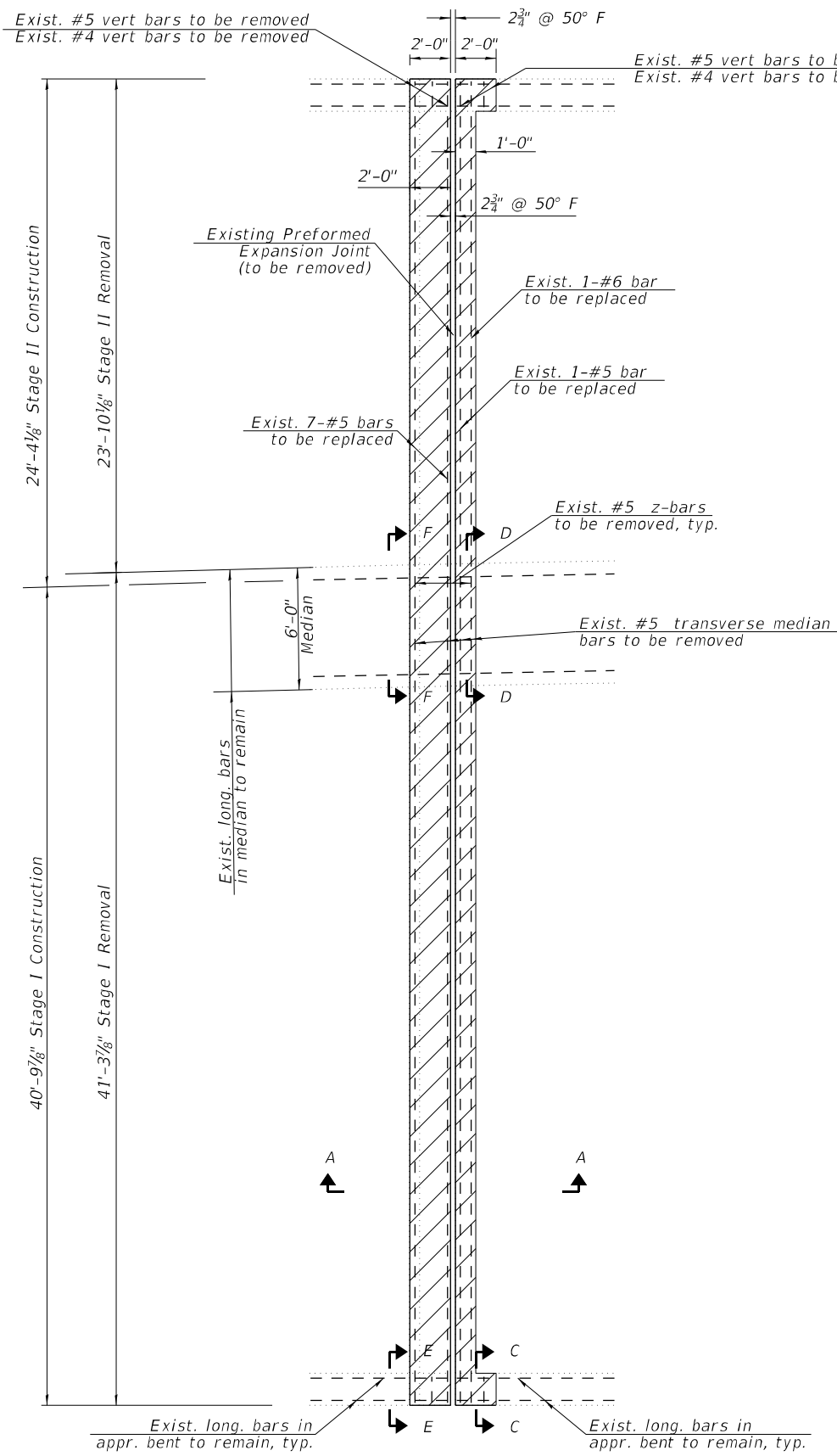
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WEST EXPANSION JOINT REMOVAL & REPLACEMENT (2 OF 2)
 STRUCTURE NO. 090-0138**

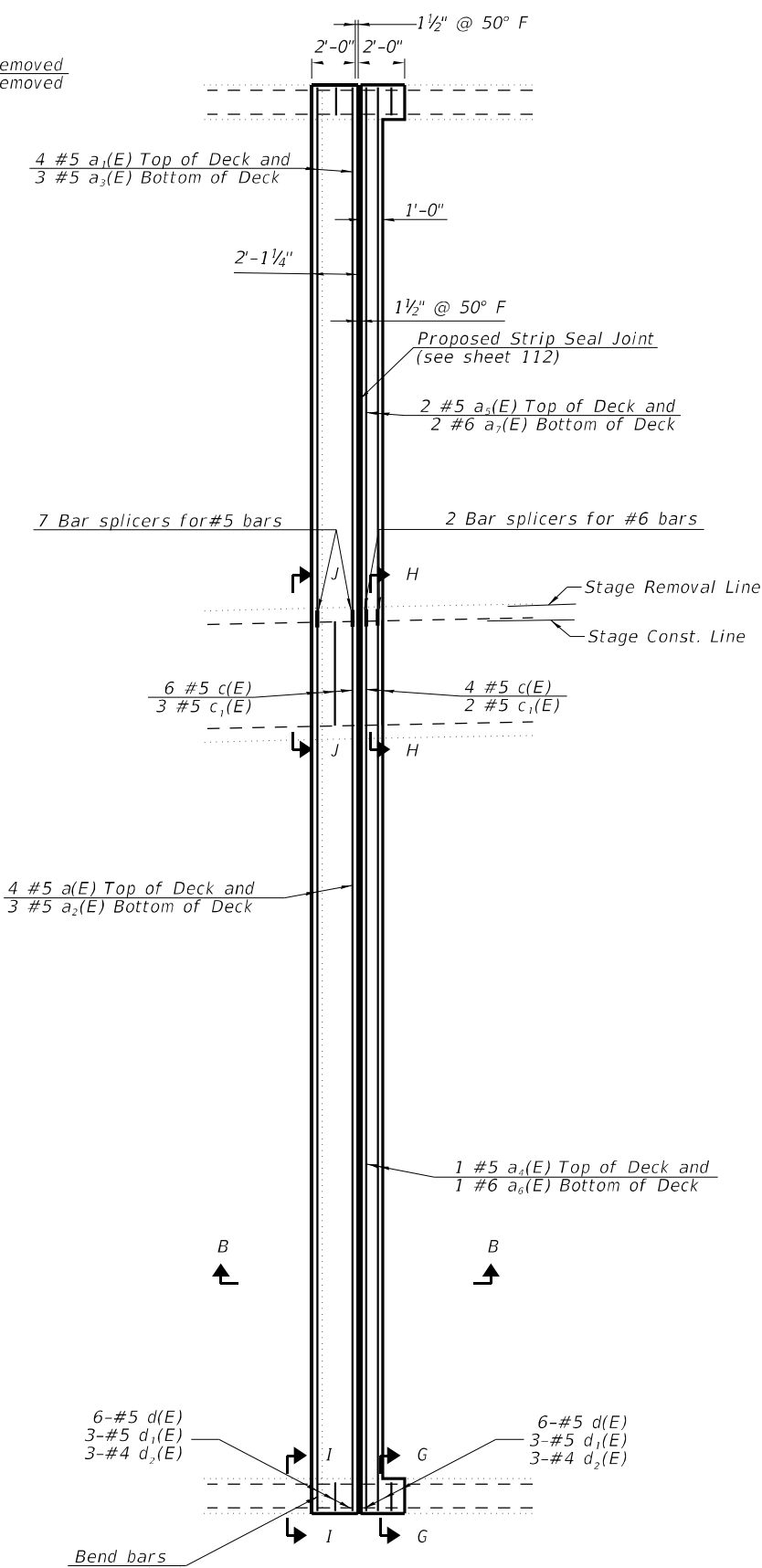
SHEET 5 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	107
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

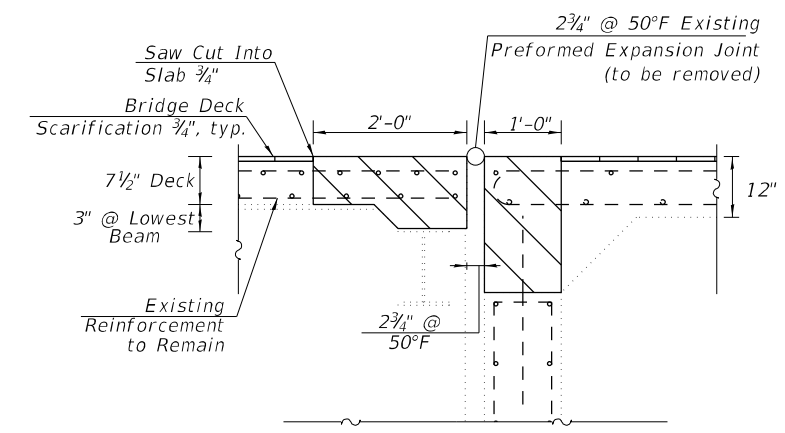
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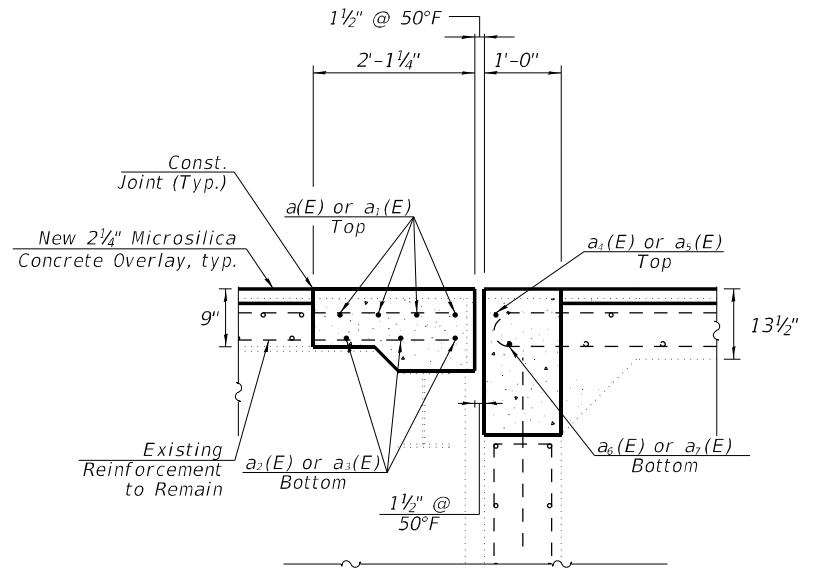
CONCRETE REMOVAL AT E. ABUT.



CONCRETE REPLACEMENT AT E. ABUT.



JOINT REMOVAL SECTION - C-C
 (Dims. at Rt. Z's to End of Deck)



PROPOSED JOINT SECTION - D-D
 (Dims. at Rt. Z's to End of Deck)

LEGEND

- Concrete Removal
- Bridge Deck Scarification, 3/4"
- Concrete Superstructure

NOTES

1. See Sheet 109 for sections C-C through J-J, Bar Diagrams, and Bill of Materials.

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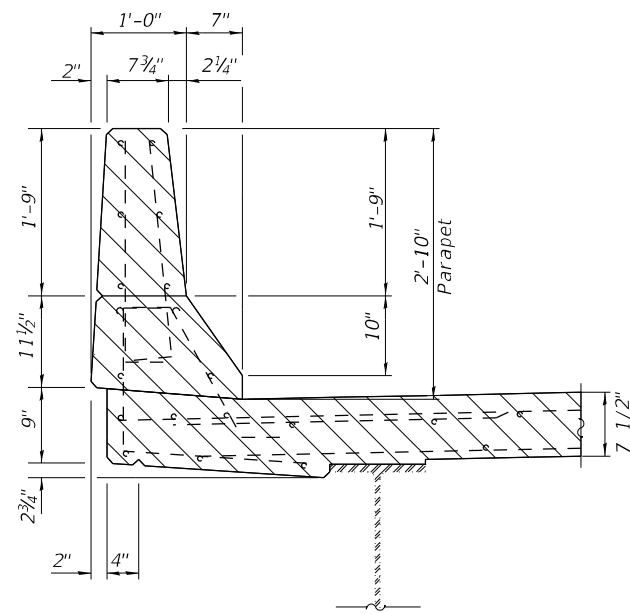
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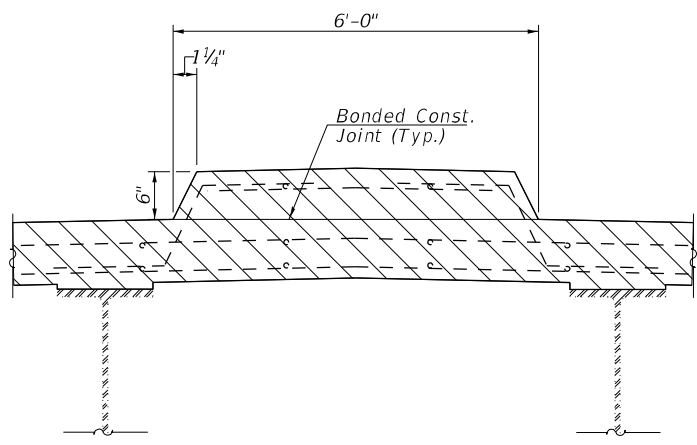
EAST EXPANSION JOINT REMOVAL & REPLACEMENT (1 OF 2)
 STRUCTURE NO. 090-0138
 SHEET 6 OF 12 SHEETS

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CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

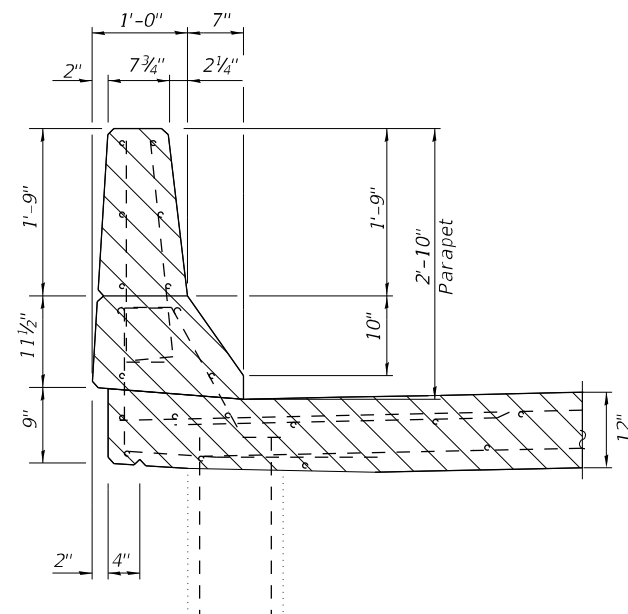
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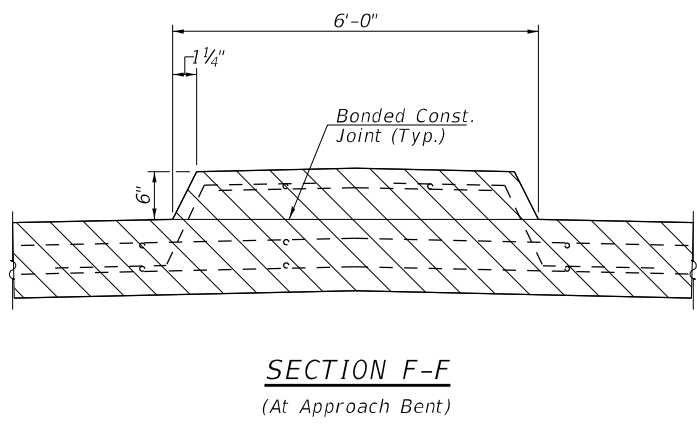
SECTION C-C



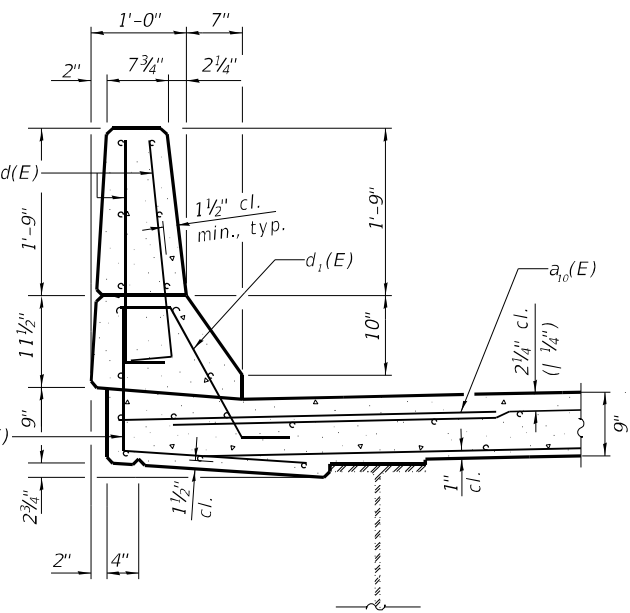
SECTION D-D



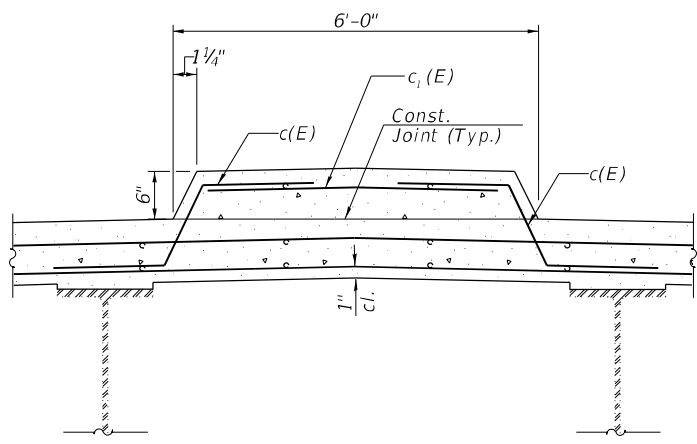
SECTION E-E
(At Approach Bent)



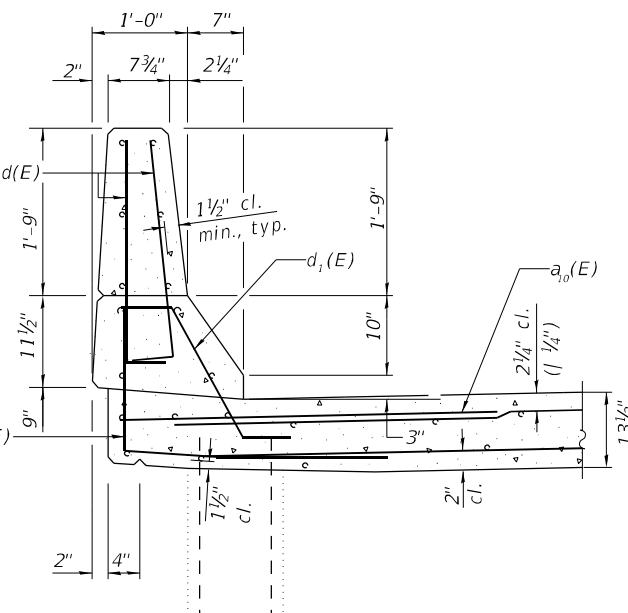
SECTION F-F
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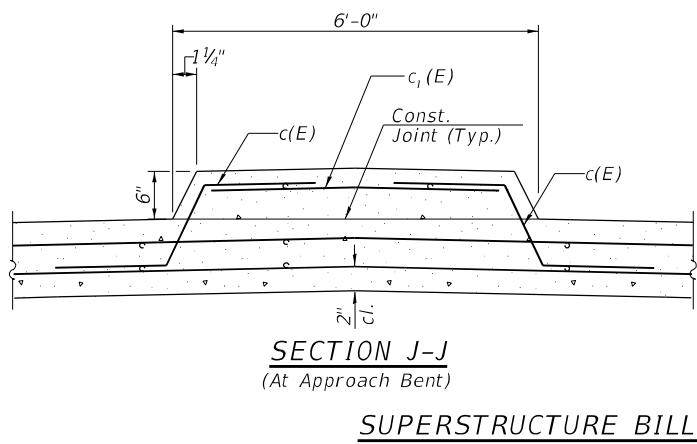
SECTION G-G



SECTION H-H



SECTION I-I
(At Approach Bent)



SECTION J-J
(At Approach Bent)

SUPERSTRUCTURE BILL OF MATERIAL

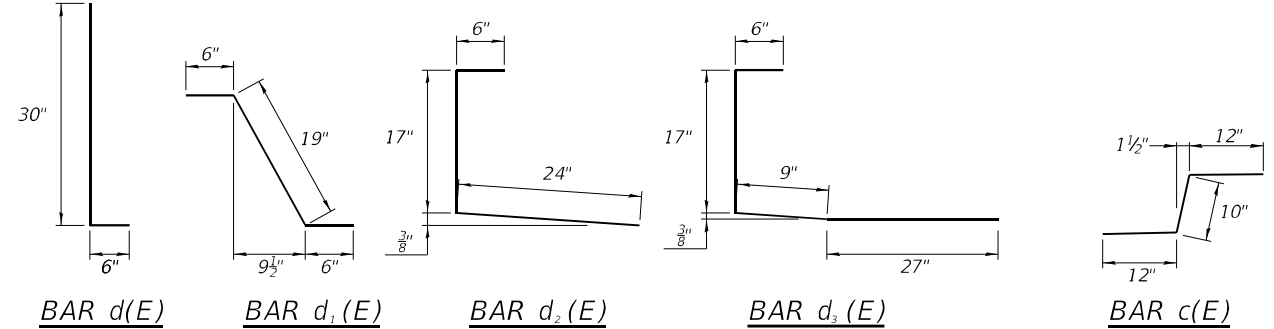
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a10(E)	4	#5	24'-3"	—
a11(E)	3	#5	40'-8"	—
a12(E)	3	#5	24'-3"	—
a13(E)	1	#5	40'-8"	—
a14(E)	1	#5	24'-3"	—
a15(E)	1	#6	40'-8"	—
a16(E)	1	#6	24'-3"	—
a17(E)	10	#6	4'-0"	—
c(E)	10	#5	2'-10"	—
c1(E)	5	#5	5'-6"	—
d(E)	12	#5	3'-0"	—
d1(E)	6	#5	2'-7"	—
d2(E)	6	#4	3'-11"	—
d3(E)	6	#4	4'-11"	—
Reinforcement Bars, Epoxy Coated			Lbs.	850
Concrete Superstructure			Cu. Yds.	9.4
Concrete Removal			Cu. Yds.	8.3

NOTES

- Hatched areas indicate Concrete Removal.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- In parapet removal areas, existing reinforcing shall remain and be re-incorporated into the new parapets.
- Cut reinforcing bars in field to fit as required.

LEGEND

Concrete Removal



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	CHECKED - JJC	REVISED -

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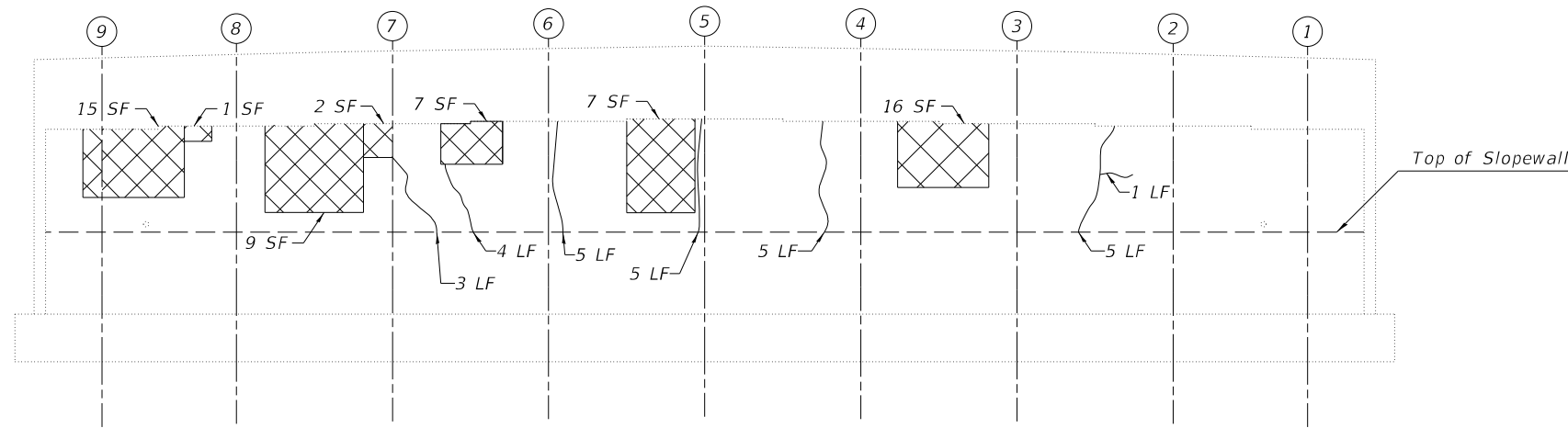
**EAST EXPANSION JOINT REMOVAL & REPLACEMENT (2 OF 2)
 STRUCTURE NO. 090-0138**

SHEET 7 OF 12 SHEETS

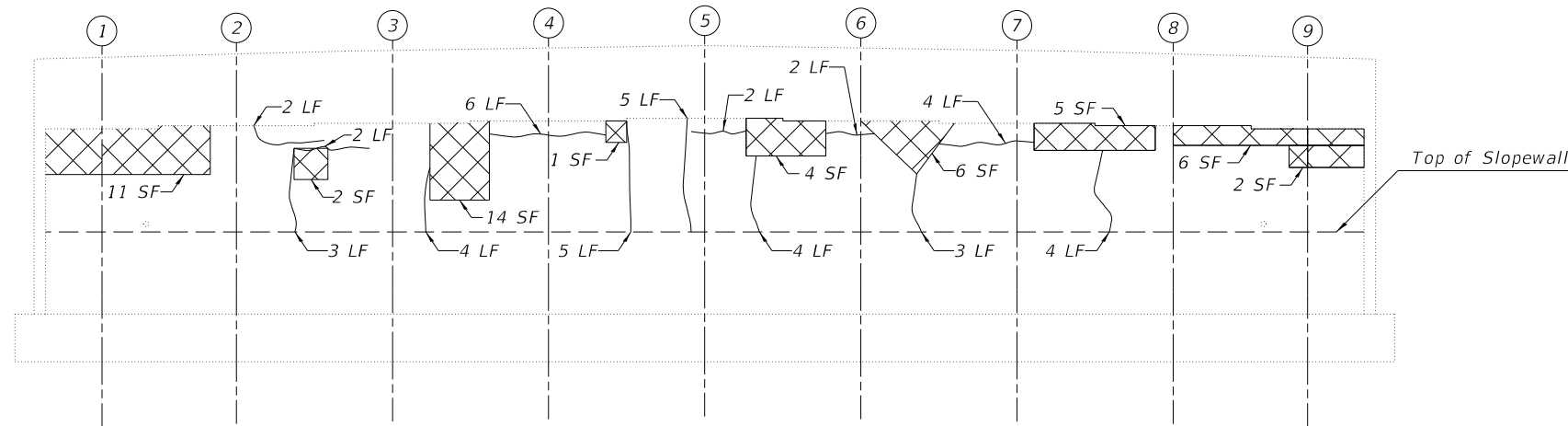
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155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	109
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

Notes:

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
2. SF = Square Feet



WEST ABUTMENT
(Looking West)



EAST ABUTMENT
(Looking East)

LEGEND

- H Hairline Crack
- ~ Epoxy Crack Injection
- Structural Repair of Concrete (Depth Equal To or Less than 5 inches)
- SF - Square Foot
- LF - Linear Foot

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	76
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft.	106

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JOB NO. 192-1063

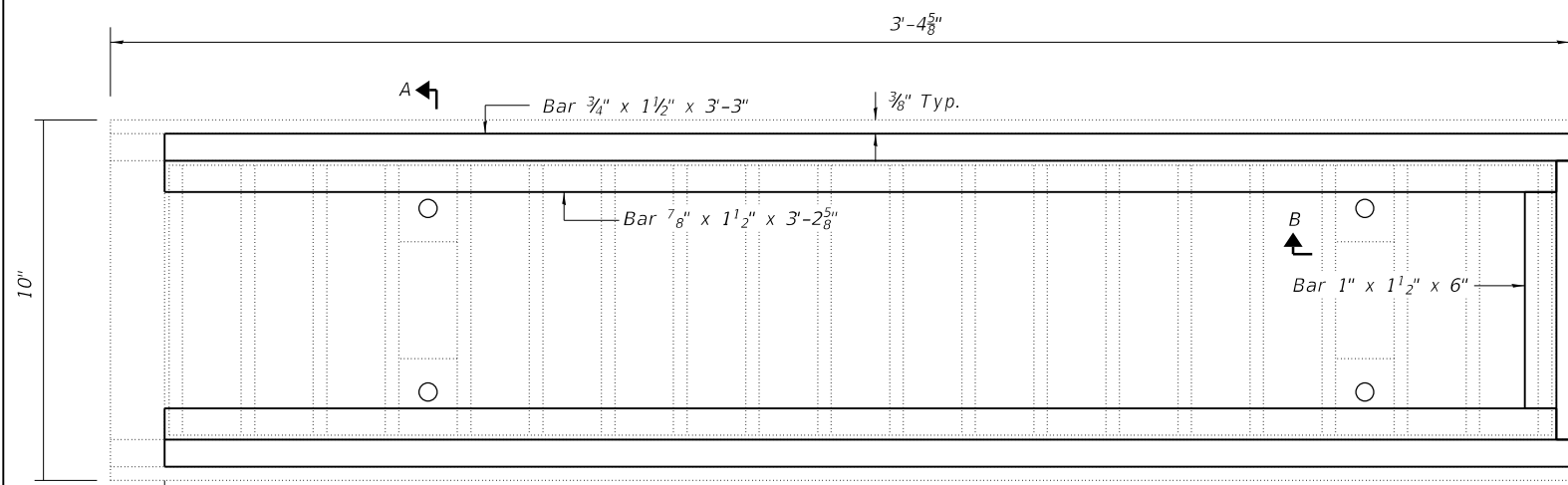
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

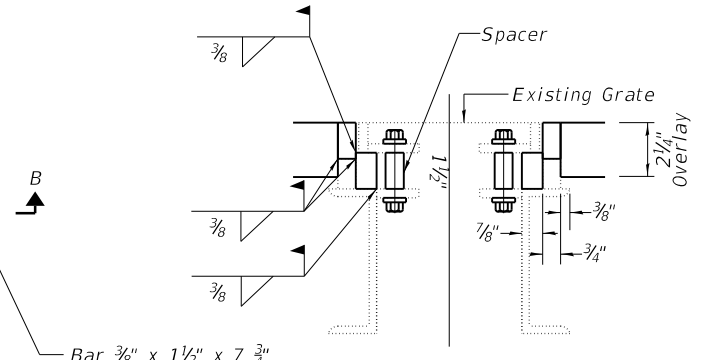
**ABUTMENT REPAIR DETAILS
STRUCTURE NO. 090-0138**

SHEET 8 OF 12 SHEETS

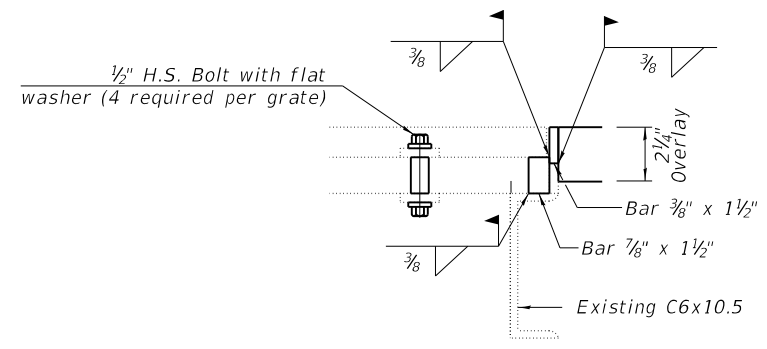
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155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	110
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



DRAINAGE SCUPPER - PLAN



SECTION A-A



SECTION B-B

Notes:
 The contractor shall ensure that no damage is done to existing grates to be reused.
 Shop plans for proposed adjusting inlet 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 inlet rings and reinstalling grates is included in the cost per unit for drainage scuppers to be Adjusted.
 All structural steel shall conform to AASHTO Classification M-270 Gr. 36. The adjusting inlet ring shall be galvanized.
 Bolts shall be 1/2" ϕ , AASHTO M164 Type 1, mechanically galvanized.
 Existing Approach Draining dimensions per IDOT standard 609006.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drainage Scuppers to be Adjusted	Each	6

MODEL: \$MODELNAMES
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 JOB NO. 192-1063

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

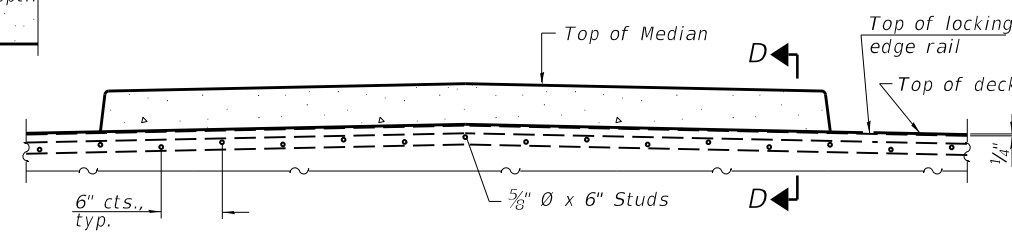
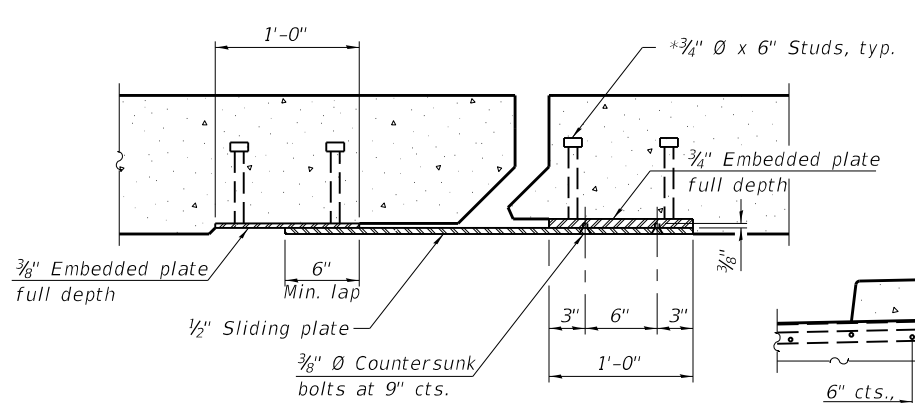
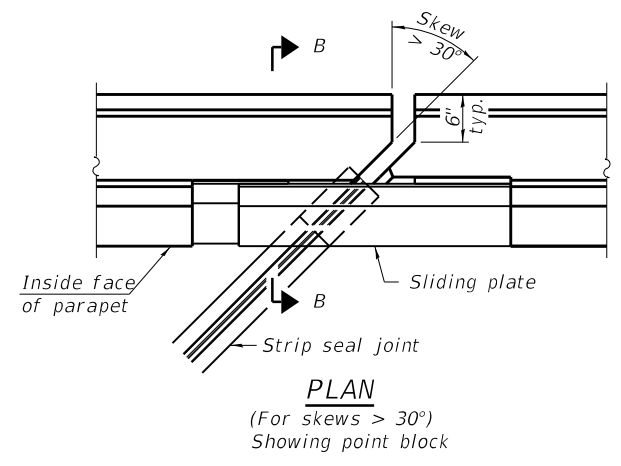
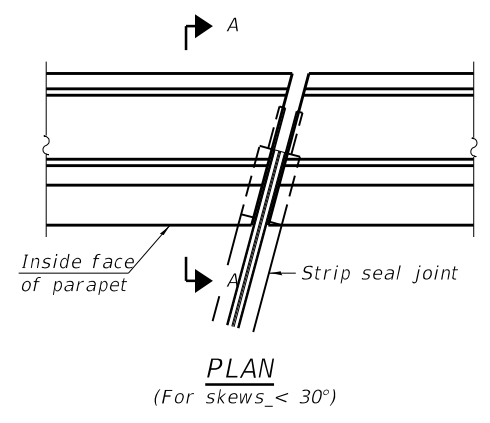
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SCUPPER ADJUSTMENT DETAILS
 STRUCTURE NO. 090-0138**

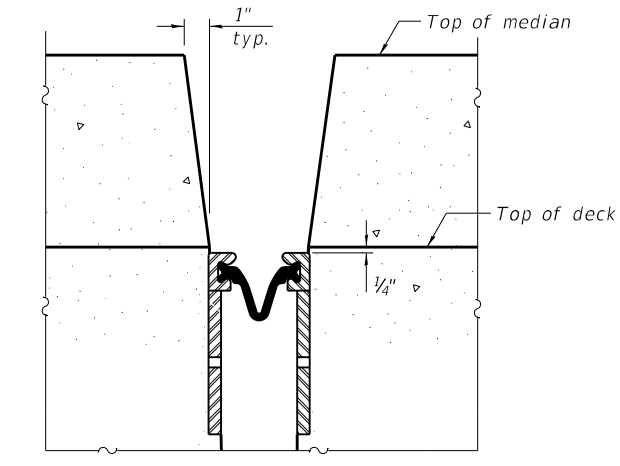
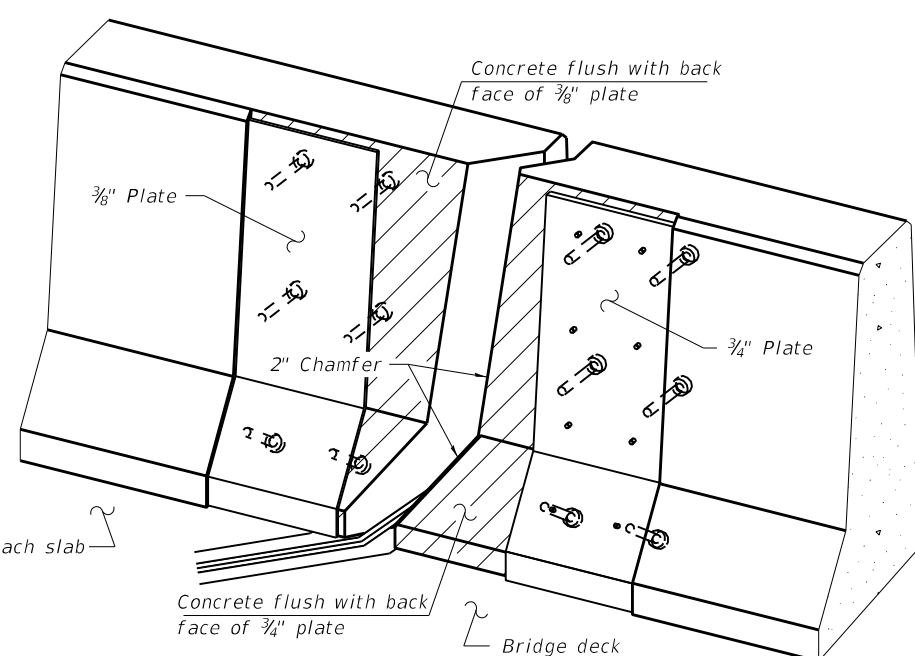
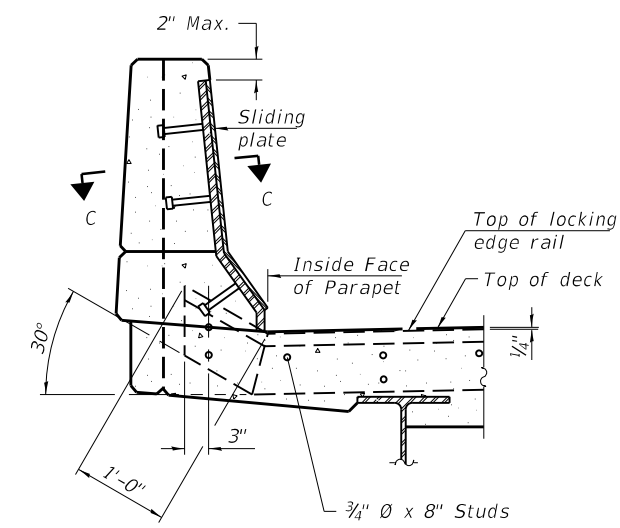
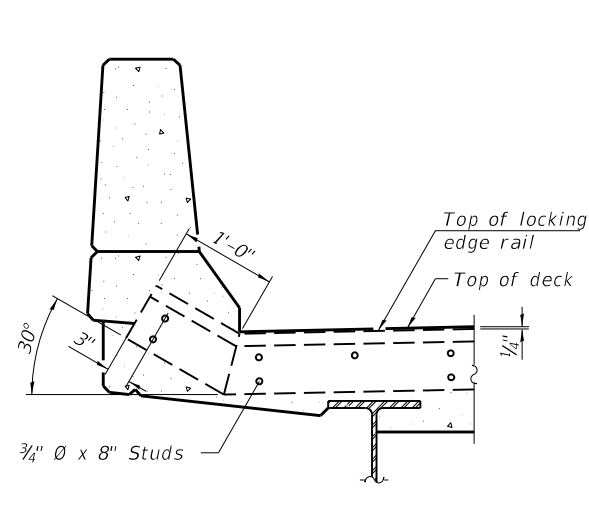
SHEET 9 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	111
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

MODEL: SMODELNAMES
 FILE NAME: X:\Projects\Current\192-1063 IDOT D4 W02 PTB206-30 Various Bridges Preservation\192-1063\0900138_10_Prefomed Joint Strip Seal.dgn
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SECTION AT MEDIAN
For $skews > 30^\circ$, chamfer acute corners 2" similar to sidewalk.



Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

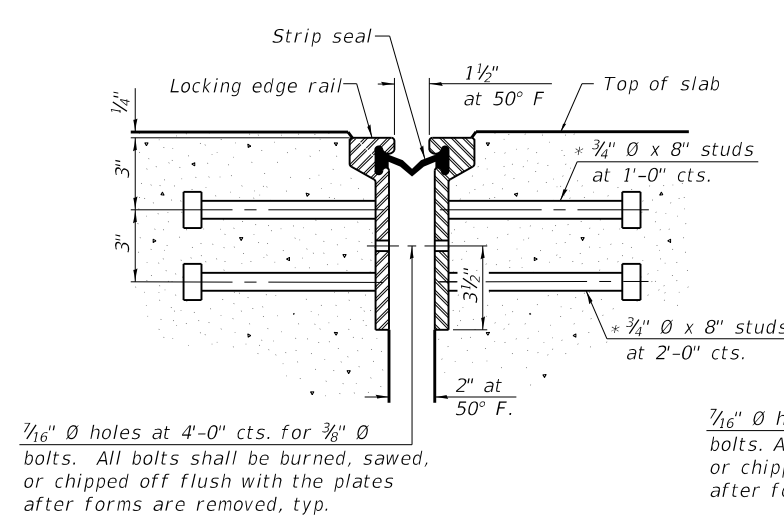
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

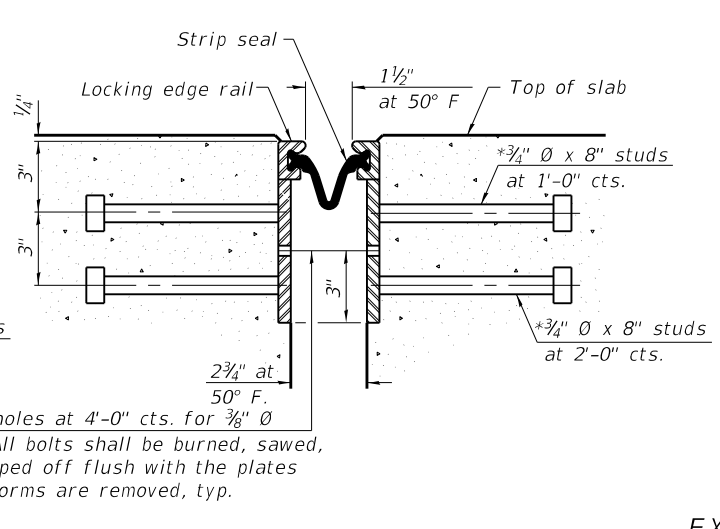
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications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

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

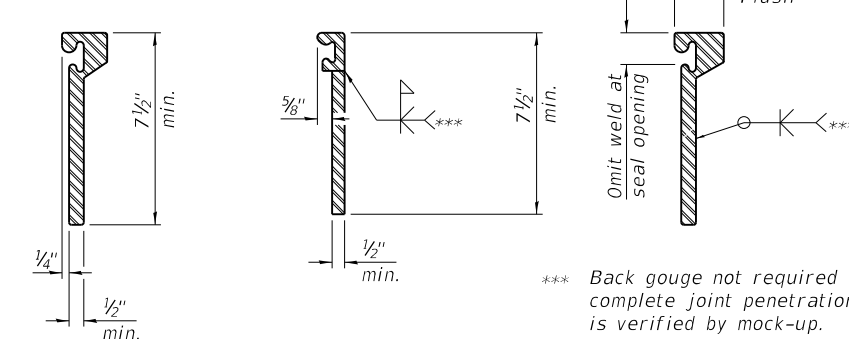
Parapet plates and anchorage studs for $skews > 30^\circ$ included in the cost of Prefomed Joint Strip Seal.



1/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



1/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



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
Prefomed Joint Strip Seal	Foot	128

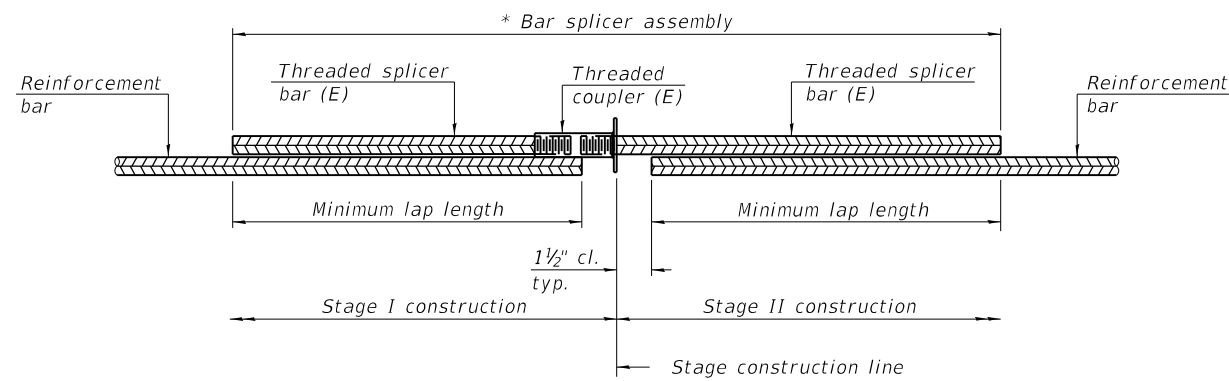
HR
Hurst-Rosche, Inc.
1400 E. TREMONT ST.
HILLSBORO, IL
PH: 217.532.3959
JOB NO. 192-1063

USER NAME =	DESIGNED - JJC	REVISED -
PLOT SCALE =	CHECKED - CJC	REVISED -
PLOT DATE =	DRAWN - AE	REVISED -
	CHECKED - CJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 090-0138
SHEET 10 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	112
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				



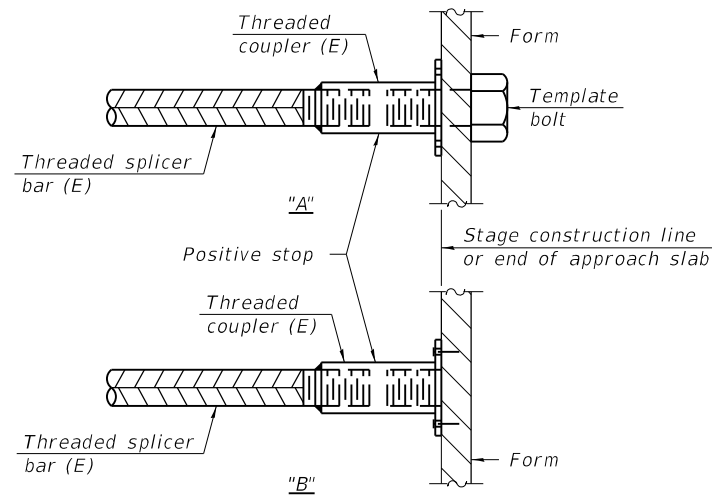
STANDARD BAR SPLICER ASSEMBLY PLAN

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

Threaded splicer bar length = min. lap length + 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
West Abutment	#5	7	3'-4"
East Abutment	#5	7	3'-4"
West Abutment	#6	2	4'-0"
East Abutment	#6	2	4'-0"

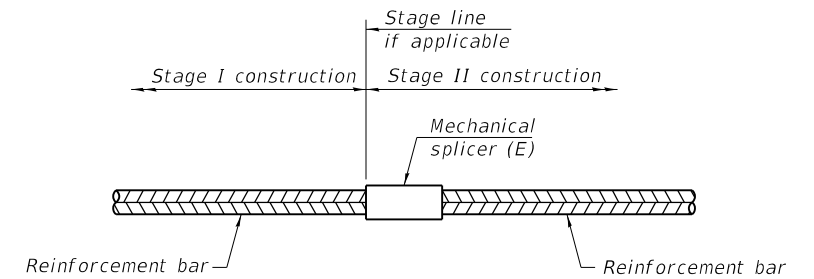


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: \$MODELNAME\$
FILE NAME: X:\Projects\Current\192-1063 IDOT D4 W02 PTB206-30 Various Bridges Preservation\DGN\68H71090-0138\0900138_11_Bar_Splice Assembly and Mechanical Splicers Detail.dgn

BSD-1

2-1-2023



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	CHECKED - CJC	REVISED -
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PLOT DATE =	CHECKED - CJC	REVISED -

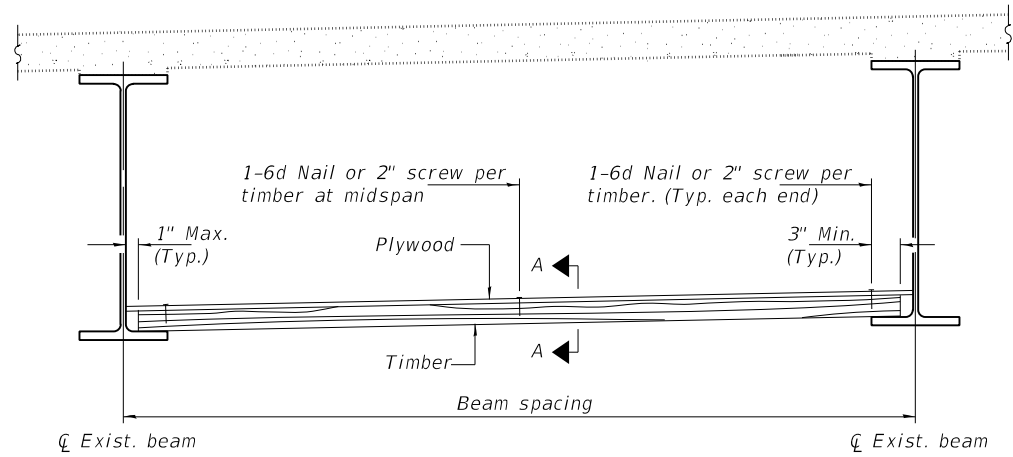
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 090-0138

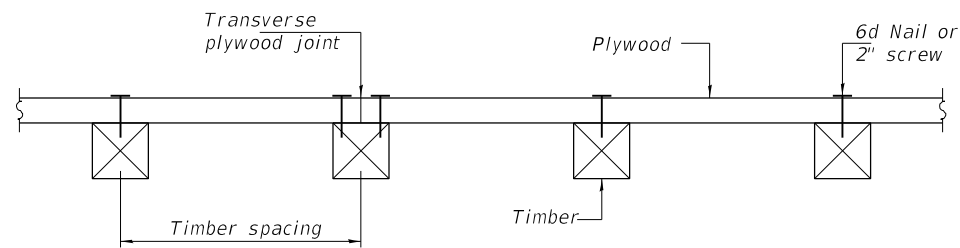
SHEET 11 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	113
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

MODEL: sMODELNAME1
 FILE NAME: X:\Projects\Current\192-1063 IDOT D4 W02 PTB206-30 Various Bridges Preservation\DGN\68H71090-0138\0900138_12_Permanent Protective Shield.dgn



STEEL BEAMS



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

Notes: See special provision for Permanent Protective Shield System.

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.

The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.

The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions. All timber shall be treated.

Plywood shall be 5/8" rated Exterior type plywood by APA.

Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers.

When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.

Design load = 200 psf.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	609

HR
 Hurst-Rosche, Inc.
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

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PLOT DATE =	CHECKED CJC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PERMANENT PROTECTIVE SHIELDING
 STRUCTURE NO. 090-0138**

SHEET 12 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	114
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

Benchmark:
RRS In Power Pole, 30' N. of C.H.8, F.A Rte. 406 Sta. 1048+55, 108' Lt., Elev. 611.384

Existing Structure No. 090-0139:

The existing structure is a two span bridge with a 7 1/2" concrete deck supported by 42" Web Plate Girders. The structure was constructed in 1988 as Section 90-(109)HB. The superstructure is supported by closed vaulted abutments. It has an out to out deck width of 33'-2" and a 295'-1" back to back abutment length.

Traffic Control to Utilize Detours.

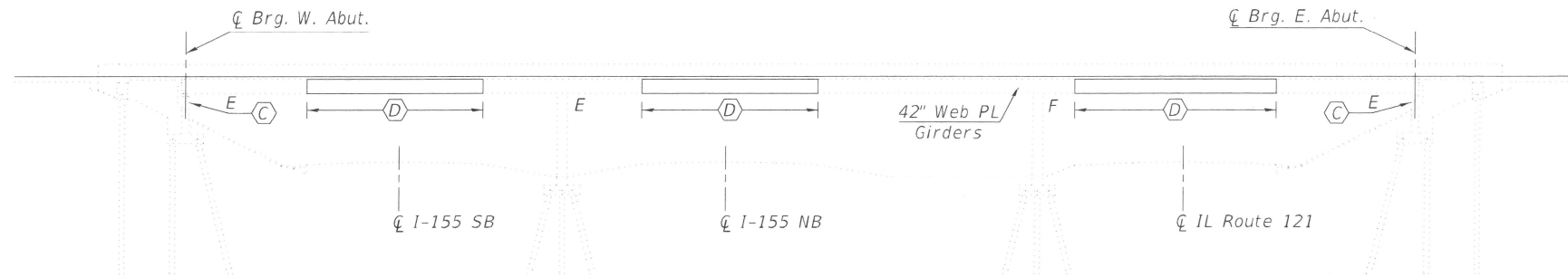
SCOPE OF WORK

1. Install Permanent Protective Shield Above the NB and SB I-155, and IL Rte. 121 as Indicated on the Plans
2. Remove Inlet Grates and Replace with RipRap Swales per Civil Sheets
3. Perform Bridge Deck Scarification, 3/4"
4. Perform Parapet Repairs, Fill Relief Joint Cracks as Needed
5. Perform Expansion Joint Reconstruction
6. Perform Deck Microsilica Concrete Overlay, 2 1/4"
7. Perform Abutment Repairs at Locations Indicated on the Plans

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	8.8
Concrete Superstructure	Cu. Yd.	10.0
Bridge Deck Grooving	Sq. Yd.	1109
Protective Coat	Sq. Yd.	1216
Reinforcement Bars, Epoxy Coated	Lbs	1045
Preformed Joint Strip Seal	Foot	67
Epoxy Crack Injection	Foot	21
* Protective Shield (Permanent)	Sq. Yd.	472
* Surface Filler (Special)	Gallon	13
* Protective Coat (Special)	Sq. Yd.	859
* Bridge Deck Scarification 3/4"	Sq. Yd.	1196
* Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq. Yd.	1196
* Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	139
* Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	14
* Drainage Scuppers To Be Adjusted	Each	2
* Slopewall Slurry Pumping	Cu. Yd.	2.0

* Denotes Special Provisions



ELEVATION

INDEX OF SHEETS

1. General Plan and Elevation
2. Cross Section
3. Deck Repair Details
4. West Expansion Joint Removal & Replacement
5. East Expansion Joint Removal & Replacement
6. Abutment Repair Details
7. Scupper Adjustment Details
8. Preformed Joint Strip Seal
9. Permanent Protective Shield

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck for expansion joint reconstruction and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose 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 paid for according to Article 109.04 of the Standard Specifications.

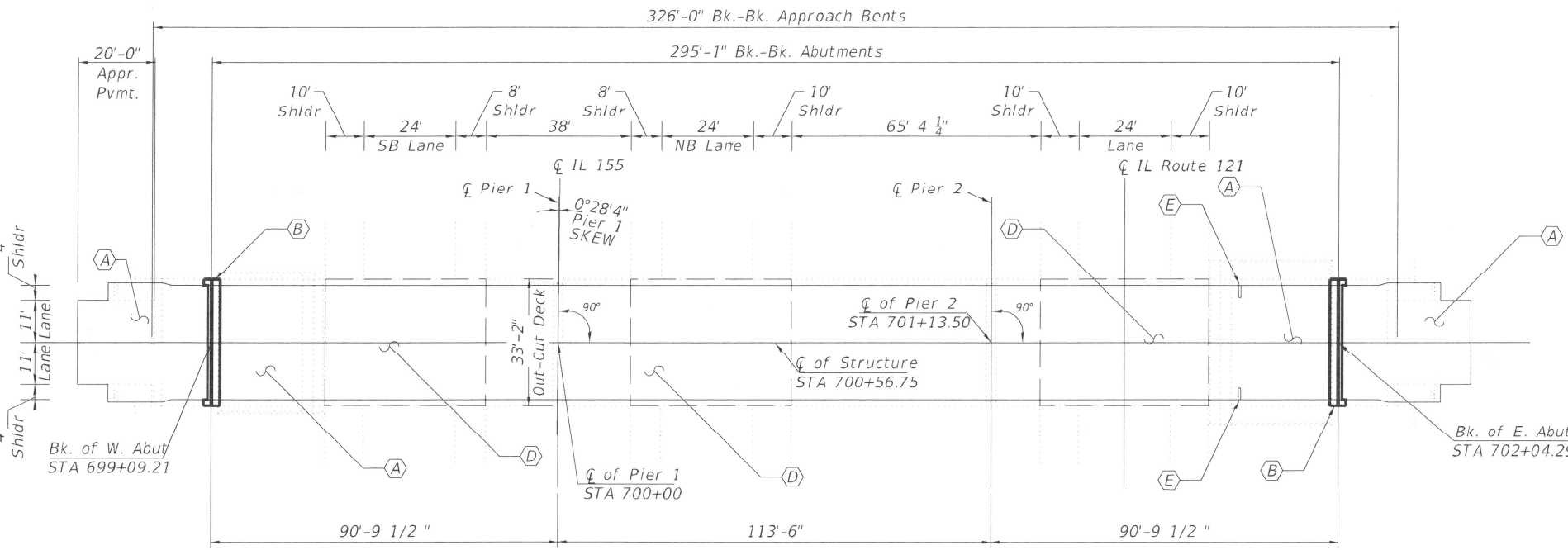
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to the existing structure have been taken from existing plans and 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 variation shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

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

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.



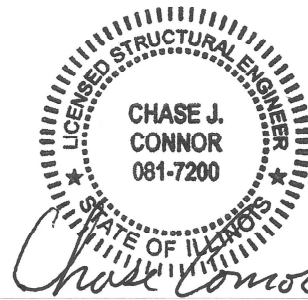
PLAN

KEYED NOTES

- (A) Bridge Deck Scarification 3/4" and 2 1/4" Microsilica Concrete Overlay
- (B) Expansion Joint Replacement
- (C) Structural Repair of Abutments
- (D) Permanent Protective Shielding
- (E) Scupper Adjustment

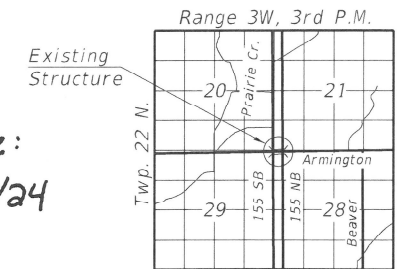
LEGEND

- Expansion Joint Replacement
- Limits of 3/4" Scarification and 2 1/4" Microsilica Concrete Overlay
- - - Limits of Protective Shield (Permanent)



CHASE J. CONNOR, P.E., S.E.
ILLINOIS STRUCTURAL NO. 7200
EXPIRES: NOVEMBER 30, 2024

Date: 2/9/24

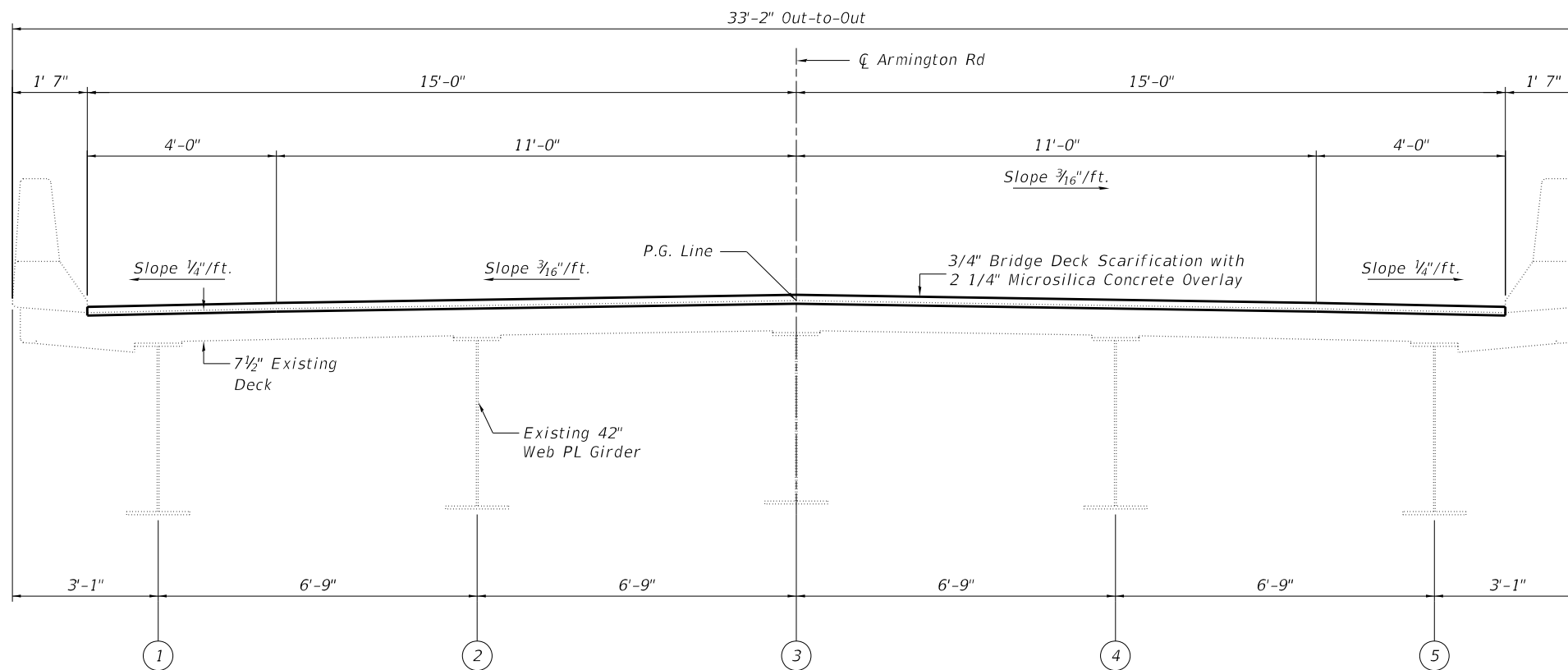


LOCATION SKETCH

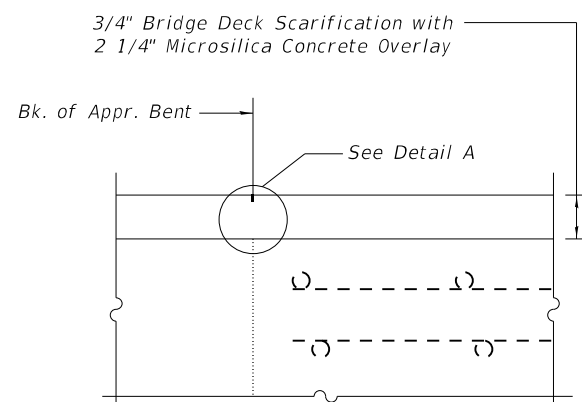
GENERAL PLAN & ELEVATION
ARMINGTON ROAD
OVER I-155 AND IL RTE. 121
TAZEWELL COUNTY
STATION 700+56.75
STRUCTURE NO. 090-0139

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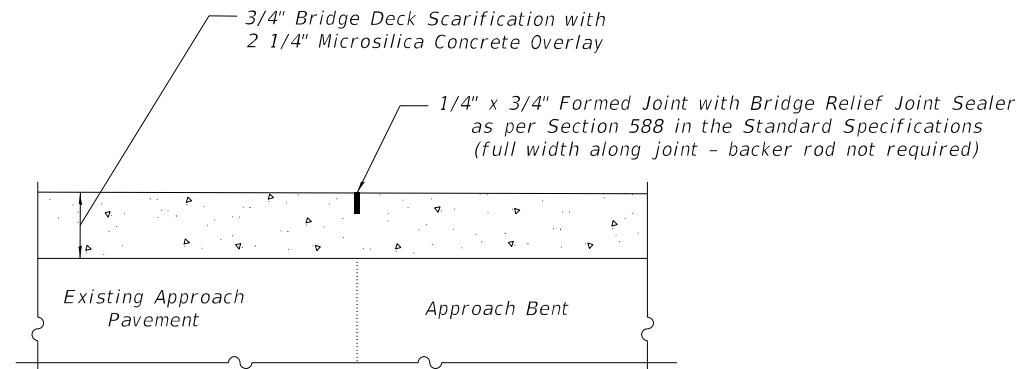
	Hurst-Rosche, Inc. PROFESSIONAL DESIGN NUMBER: 14100294 1400 E. TREMONT ST. HILLSBORO, IL PH: 217.532.3959 JOB NO. 192-1063	USER NAME = _____ PLOT SCALE = _____ PLOT DATE = _____	DESIGNED - JJC CHECKED - CJC DRAWN - RGA CHECKED - CJC	REVISED - _____ REVISED - _____ REVISED - _____ REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 090-0139 SHEET 1 OF 9 SHEETS	F.A.I. RTE. 155 SECTION D4 BRIDGE JOINT REPAIR COUNTY TAZEWELL TOTAL SHEETS 123 SHEET NO. 115	CONTRACT NO. 68H71 ILLINOIS FED. AID PROJECT
	ILLINOIS FED. AID PROJECT							



CROSS SECTION



SECTION AT APPROACH



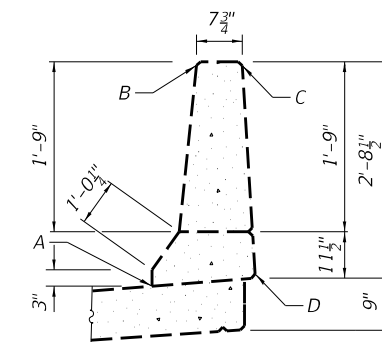
DETAIL A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Surface Filler (Special)	Gallon	13
Protective Coat (Special)	Sq. Yd.	859

NOTES

1. Surface Filler (Special) and Protective Coat (Special) shall be applied per the Special Provisions.
2. Protective Coat (Special) to cover from Point A through Points B, C and D of the Parapet.



PARAPET SEALING DETAIL

MODEL: \$MODELNAMES
FILE NAME: X:\Projects\Current\192-1063 IDOT D4 W02 PTB206-30 Various Bridges Preservation\1090-0139\0900139_02_cross_section.dgn

HR
Hurst-Rosche, Inc.
1400 E. TREMONT ST.
HILLSBORO, IL
PH: 217.532.3959
JOB NO. 192-1063

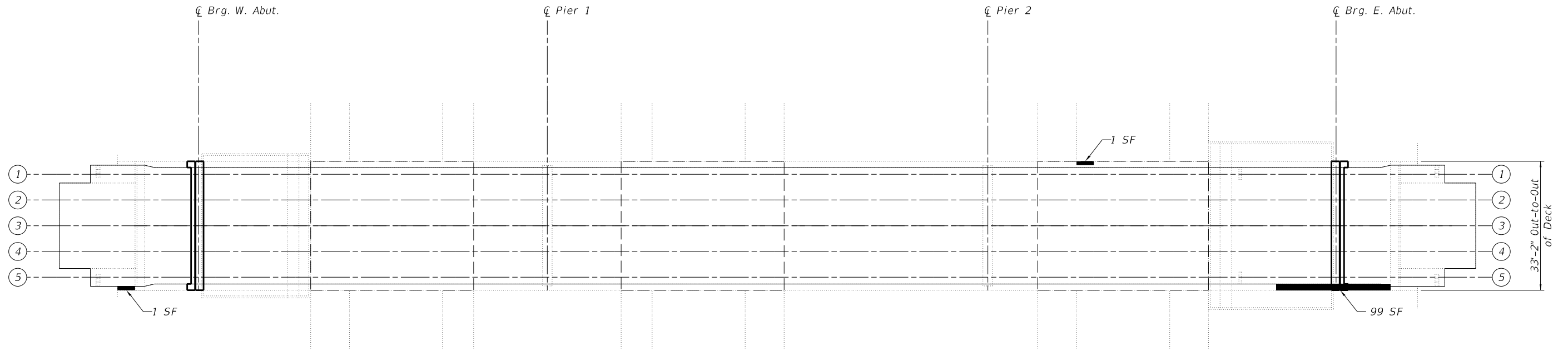
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PLOT SCALE =	CHECKED - CJC	REVISED -
PLOT DATE =	DRAWN - AE	REVISED -
	CHECKED - CJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION
STRUCTURE NO. 090-0139
SHEET 2 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	116
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

- Notes:
1. Locations and dimensions shown are approximate. The Engineer will determine final patch locations and quantities 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

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Limits of Protective Shielding (Permanent)

DECK REPAIR PLAN



BILL OF MATERIAL

Item	Unit	Quantity
Protective Coat	Sq. Yd.	1216
Protective Shield (Permanent)	Sq. Yd.	472
Bridge Deck Scarification	Sq. Yd.	1196
Bridge Deck Microsilica Overlay	Sq. Yd.	1196
Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)	Sq. Ft.	101

MODEL: \$MODELNAME\$ FILE NAME: X:\Projects\Current\192-1063 IDOT D4 W02 PTB206-30 Various Bridges Preservation\DGN\68H71090-0139\0900139_03_deck_repair_details.dgn

HR Hurst-Rosche, Inc.
 1400 E. TREMONT ST.
 HILLSBORO, IL
 PH: 217.532.3959
 JOB NO. 192-1063

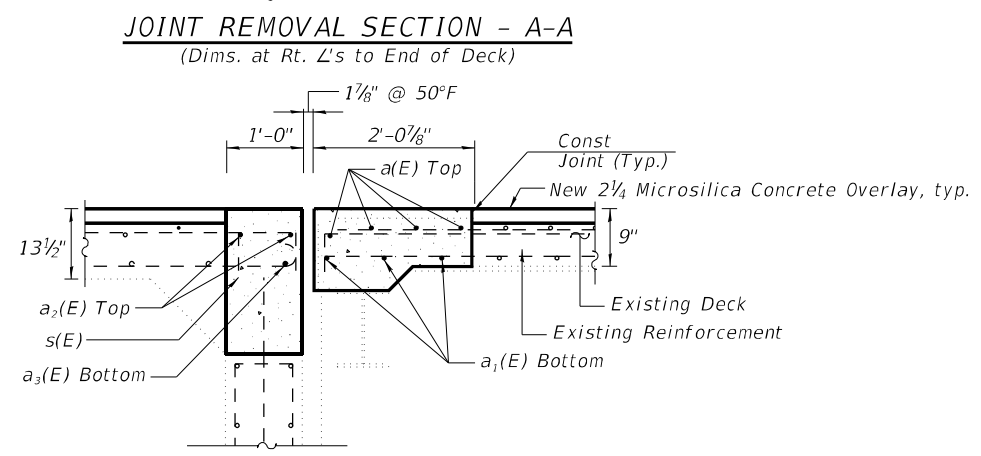
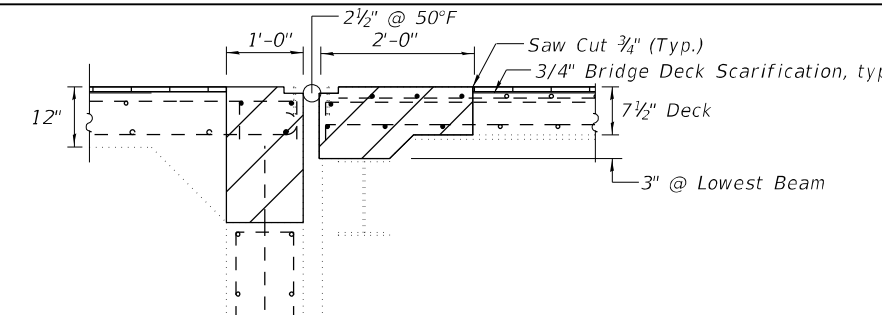
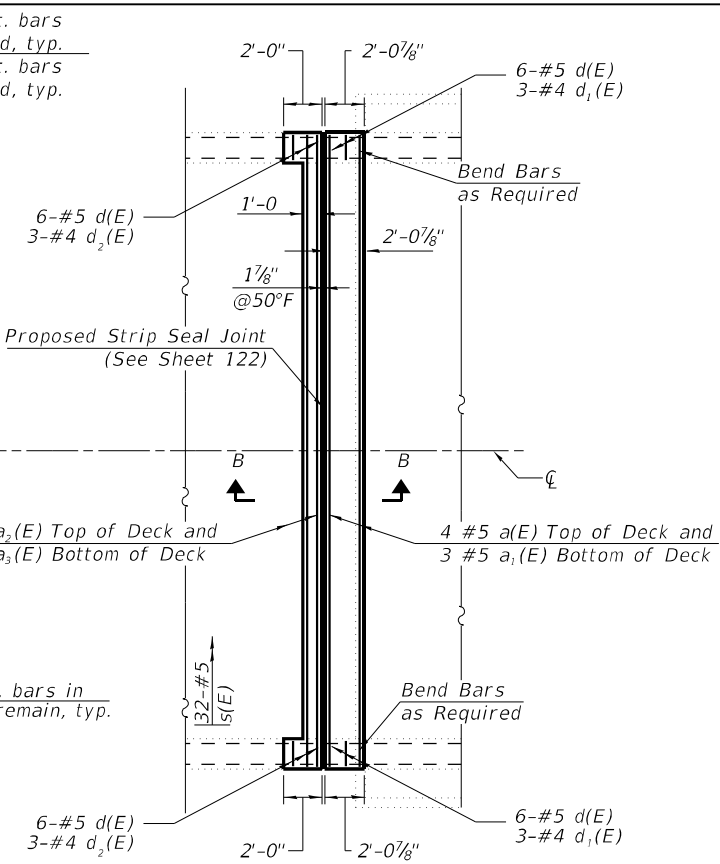
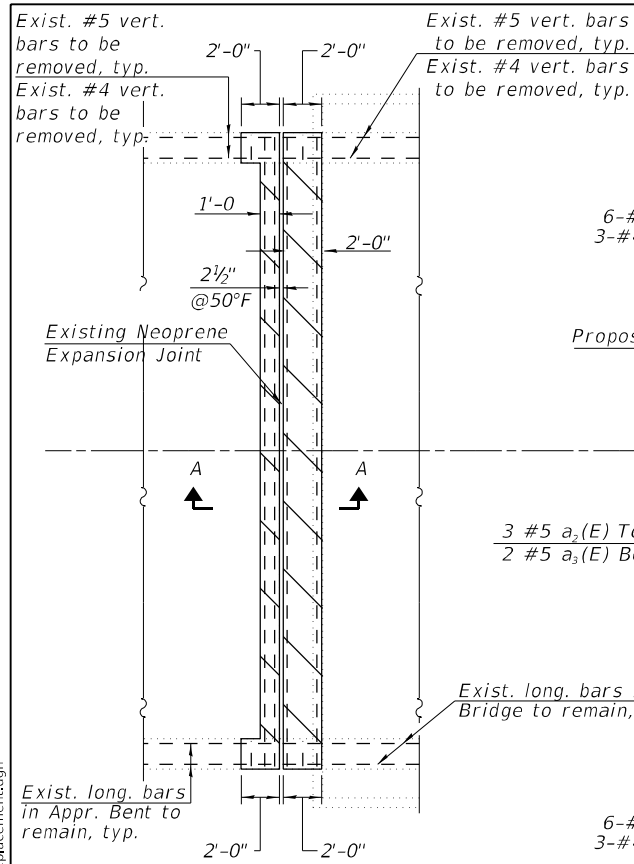
USER NAME =	DESIGNED - JJC	REVISED -
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PLOT SCALE =	DRAWN - AE	REVISED -
PLOT DATE =	CHECKED - JJC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR PLAN
 STRUCTURE NO. 090-0139**

SHEET 3 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	117
CONTRACT NO. 68H71				
		ILLINOIS	FED. AID PROJECT	

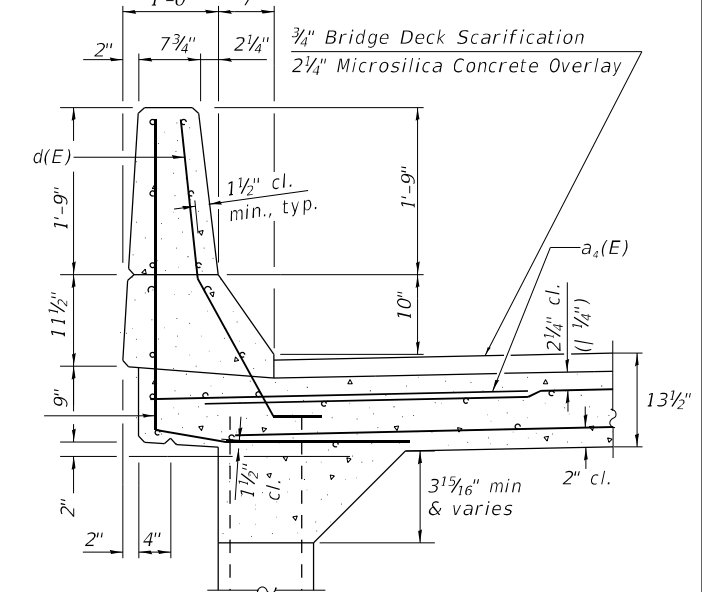
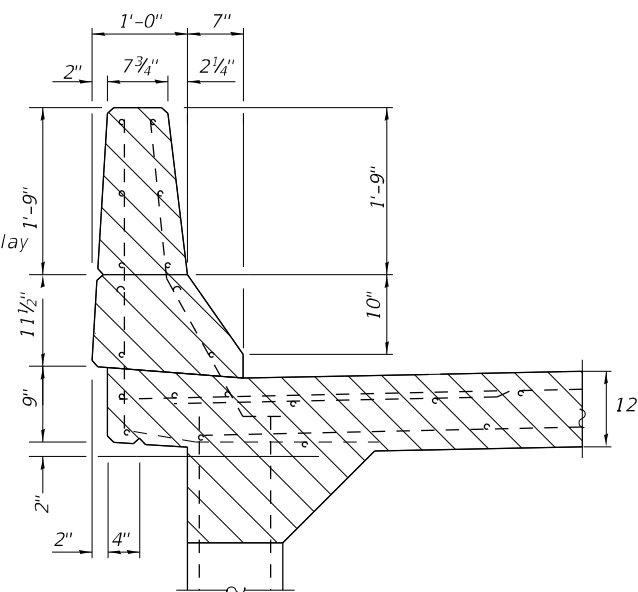
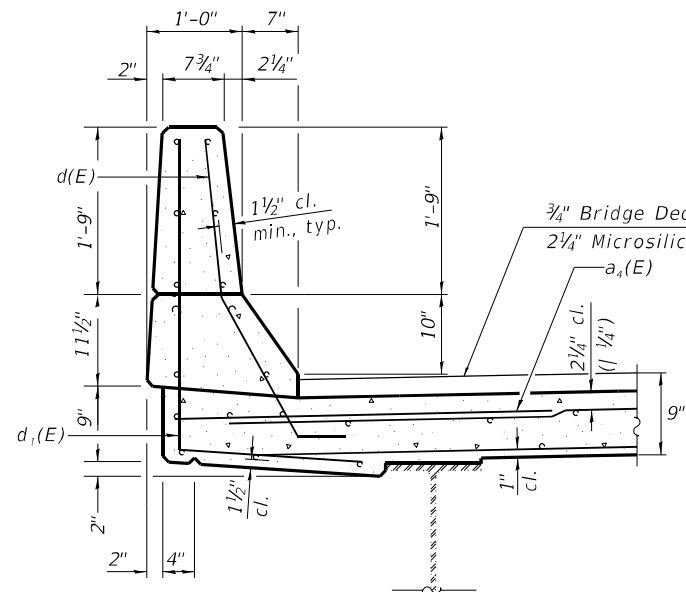
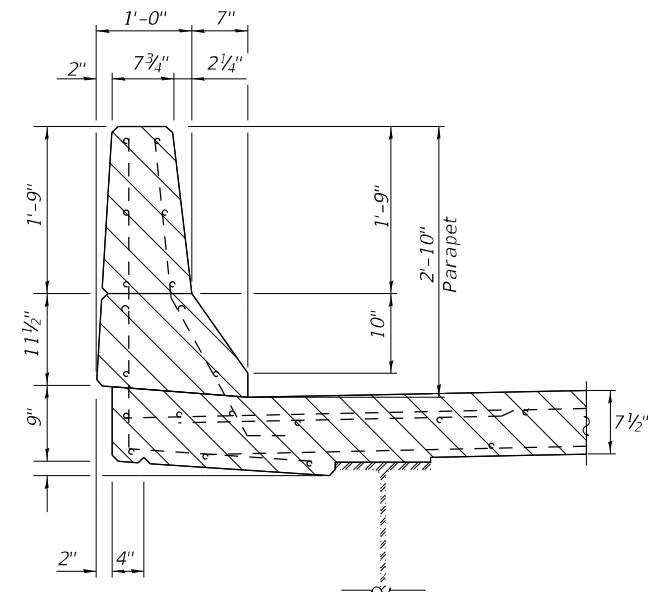


**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	4	#5	32'-11"	—
a1(E)	3	#5	32'-11"	—
a2(E)	2	#5	32'-11"	—
a3(E)	1	#6	32'-11"	—
a4(E)	6	#6	4'-0"	—
s(E)	32	#5	1'-11"	⌋
d1(E)	12	#5	3'-11"	⌋
d1(E)	6	#4	5'-3"	⌋
d2(E)	6	#4	6'-2"	⌋
Reinforcement Bars, Epoxy Coated			Lbs.	555
Concrete Superstructure			Cu. Yds.	5.0
Concrete Removal			Cu. Yds.	4.4

CONCRETE REMOVAL AT W. ABUT.

CONCRETE REPLACEMENT AT W. ABUT.



PARAPET REMOVAL CROSS SECTION

PARAPET REPLACEMENT CROSS SECTION

PARAPET REMOVAL CROSS SECTION (At Approach Bent)

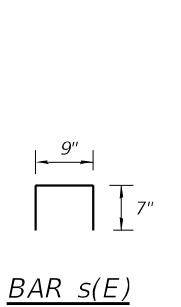
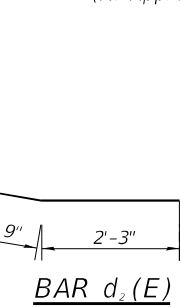
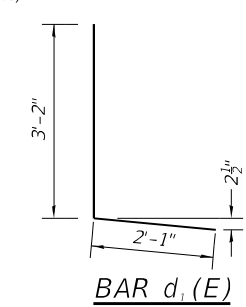
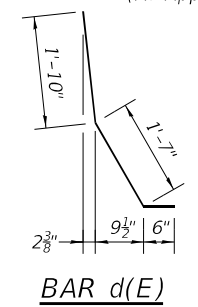
PARAPET REPLACEMENT CROSS SECTION (At Approach Bent)

NOTES

- Hatched areas indicate Concrete Removal.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- In parapet removal areas, existing reinforcing shall remain and be re-incorporated into the new parapets.
- Cut reinforcing bars in field to fit as required.

LEGEND

- Concrete Removal
- Bridge Deck Scarification, 3/4"
- Concrete Superstructure



MODEL: SMODELNAMES
FILE NAME: X:\Projects\Current\192-1063 IDOT D4 W02 PTB206-30 Various Bridges Preservation\68H71090-0139\0900139_04_west_expansion_joint_removal_replacement.dgn

HR Hurst-Rosche, Inc.
1400 E. TREMONT ST.
HILLSBORO, IL
PH: 217.532.3959
JOB NO. 192-1063

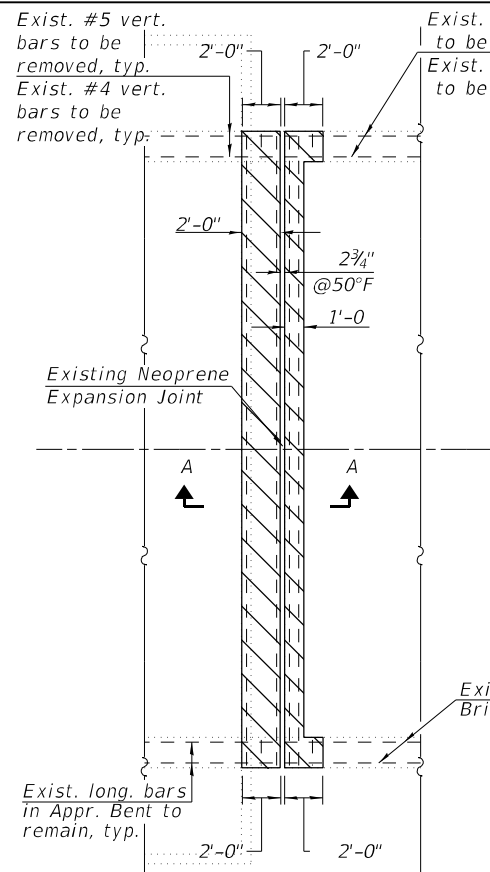
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PLOT SCALE =	CHECKED - CJC	REVISED -
PLOT DATE =	DRAWN - AE	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

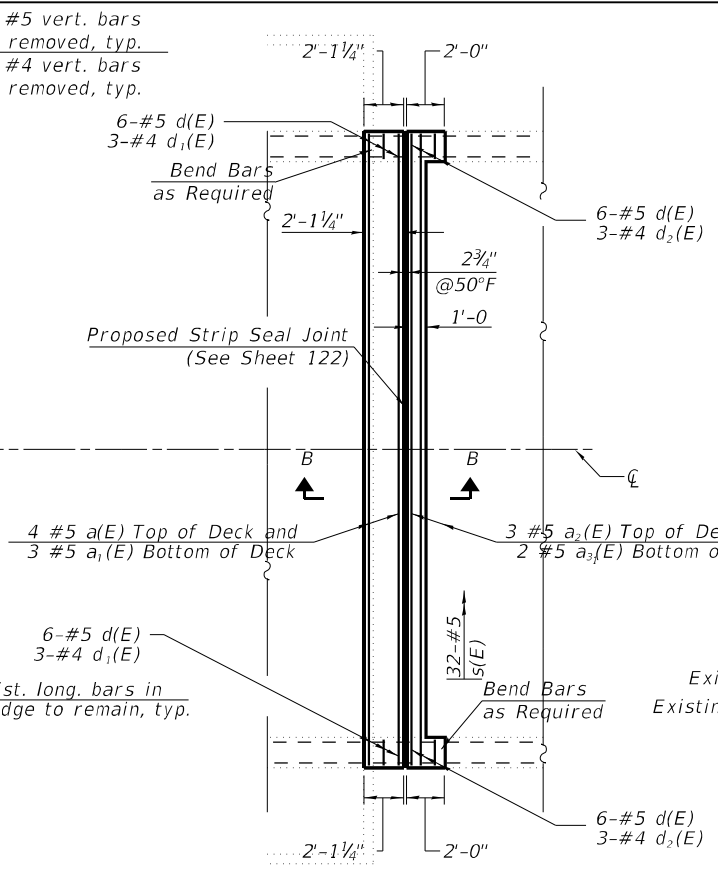
**WEST EXPANSION JOINT REMOVAL & REPLACEMENT
STRUCTURE NO. 090-0139**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	118
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

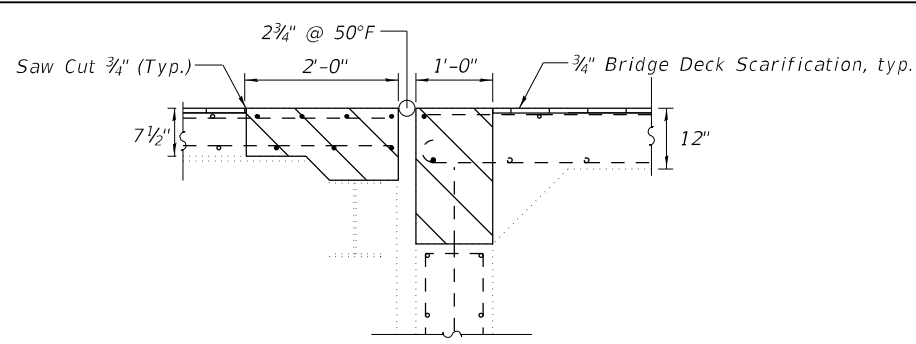
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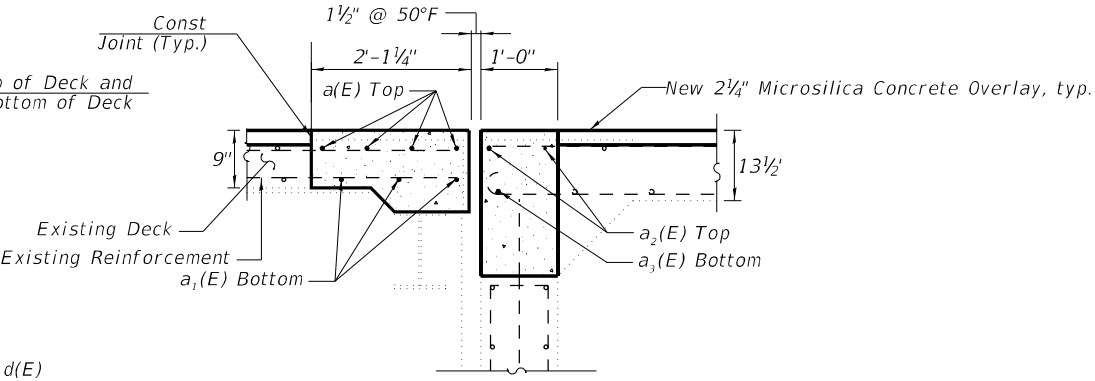
CONCRETE REMOVAL AT E. ABUT.



CONCRETE REPLACEMENT AT E. ABUT.



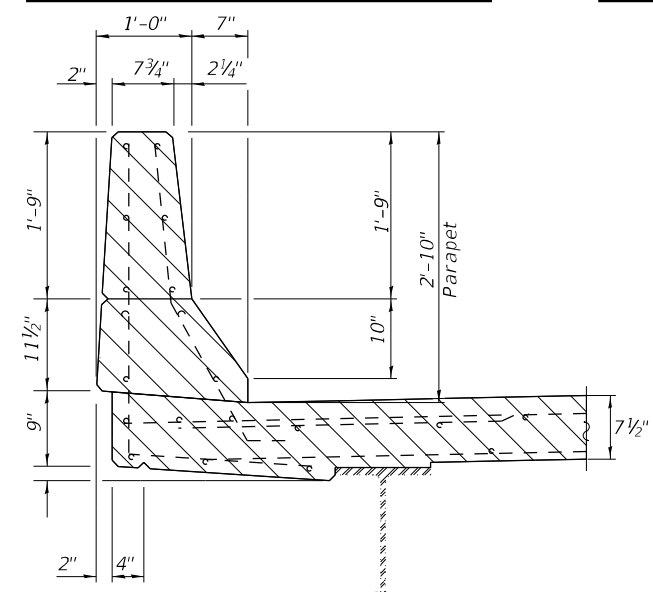
JOINT REMOVAL SECTION - A-A
(Dims. at Rt. L's to End of Deck)



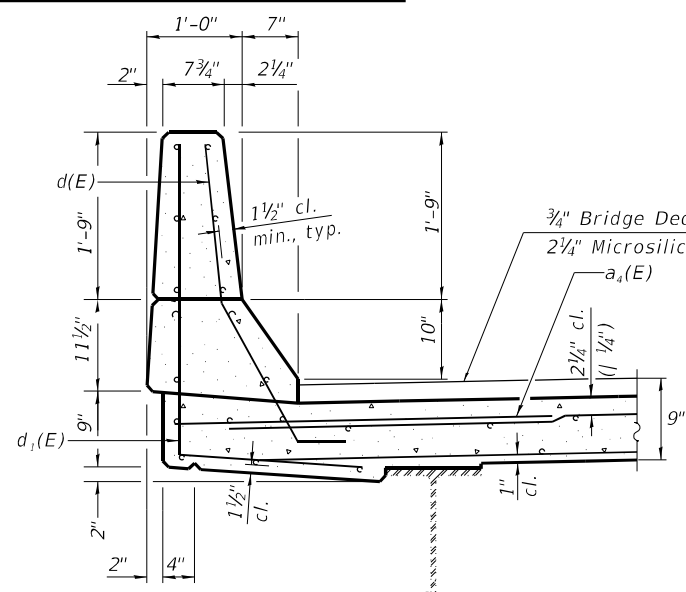
PROPOSED JOINT SECTION - B-B
(Dims. at Rt. L's to End of Deck)

SUPERSTRUCTURE BILL OF MATERIAL

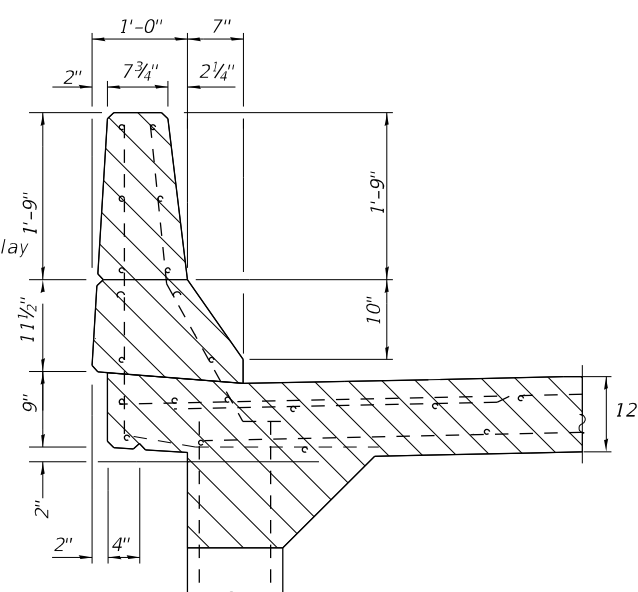
Bar	No.	Size	Length	Shape
a(E)	4	#5	32'-11"	—
a1(E)	3	#5	32'-11"	—
a2(E)	2	#5	32'-11"	—
a3(E)	1	#5	32'-11"	—
a4(E)	6	#6	4'-0"	—
d(E)	12	#5	3'-11"	—
d1(E)	6	#4	5'-3"	—
d2(E)	6	#4	6'-2"	—
Reinforcement Bars, Epoxy Coated			Lbs.	490
Concrete Superstructure			Cu. Yds.	5.0
Concrete Removal			Cu. Yds.	4.4



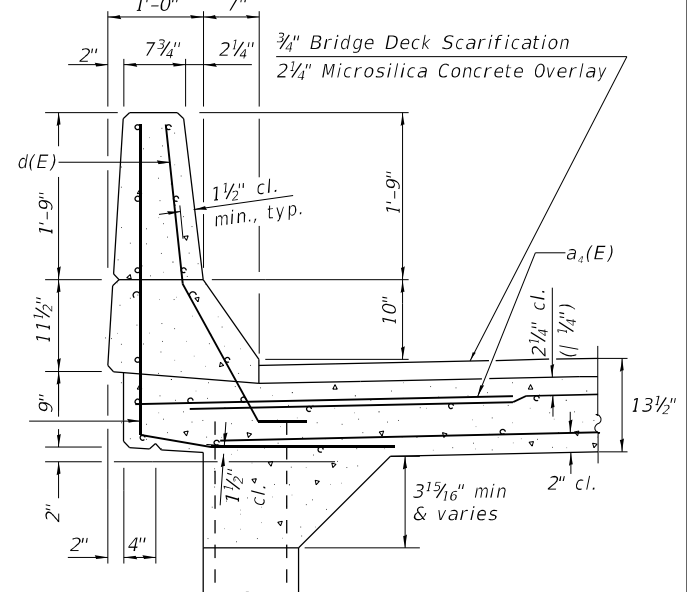
PARAPET REMOVAL CROSS SECTION



PARAPET REPLACEMENT CROSS SECTION



PARAPET REMOVAL CROSS SECTION
(At Approach Bent)



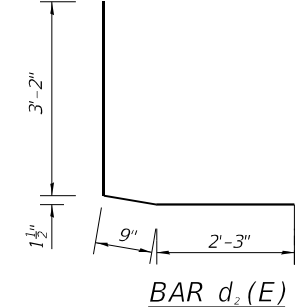
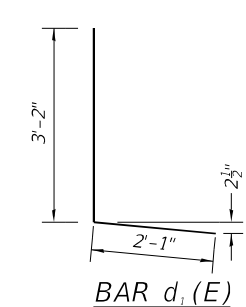
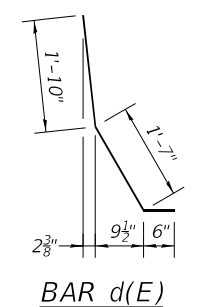
PARAPET REPLACEMENT CROSS SECTION
(At Approach Bent)

NOTES

- Hatched areas indicate Concrete Removal.
- Removal of existing expansion joint shall be included in the cost of concrete removal.
- The contractor shall use extreme care during concrete removal so as not to damage the wide flange beams.
- Cut reinforcing bars in field to fit as required.

LEGEND

- Concrete Removal
- Bridge Deck Scarification, 3/4"



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

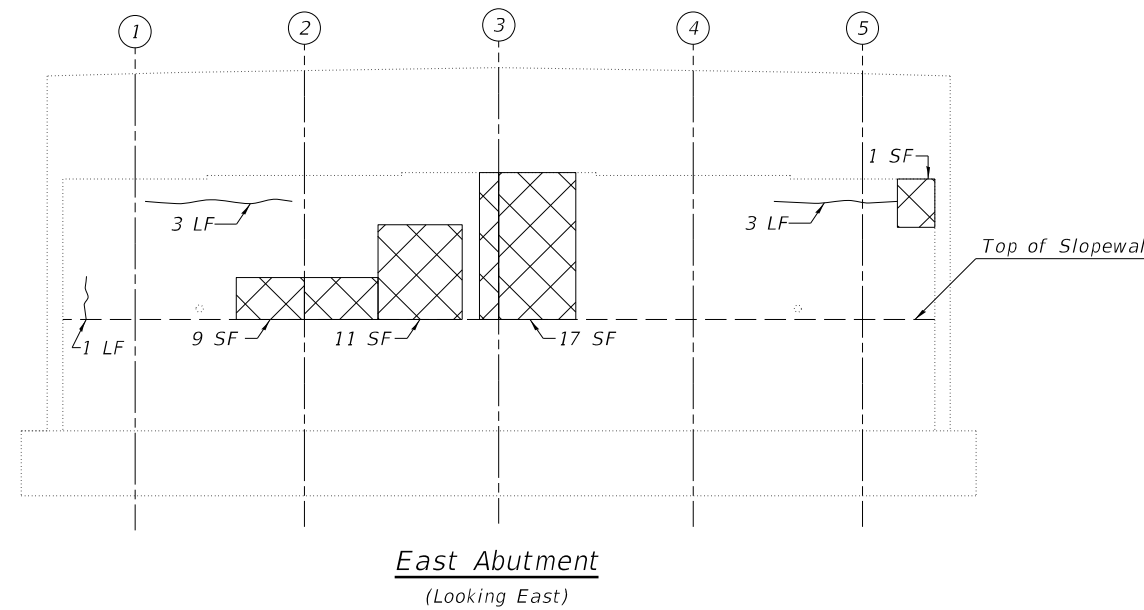
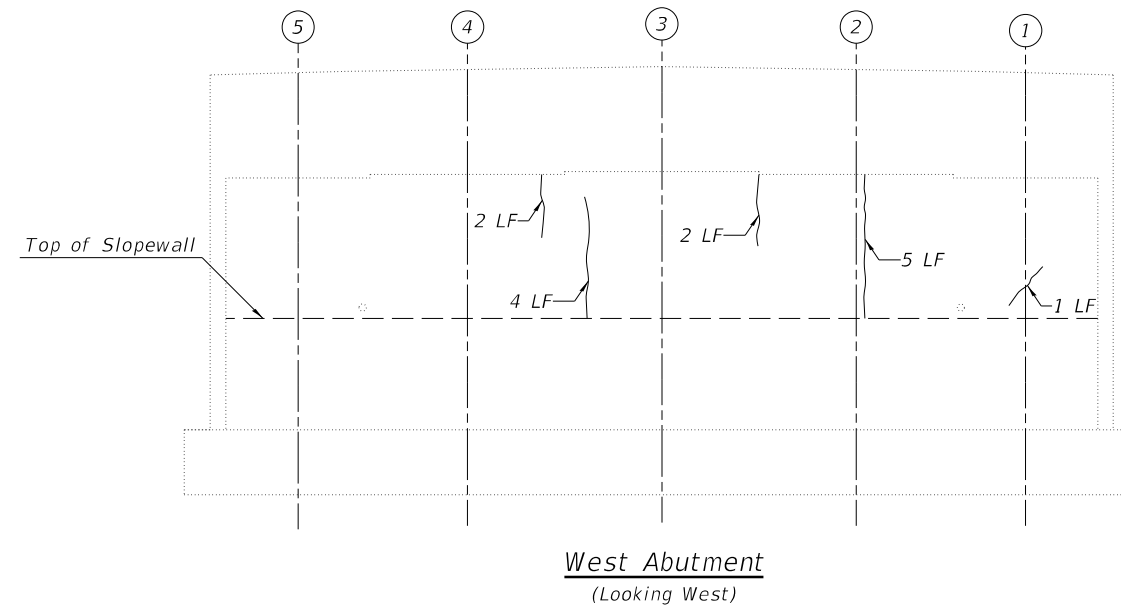
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EAST EXPANSION JOINT REMOVAL & REPLACEMENT
 STRUCTURE NO. 090-0139

SHEET 5 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	119
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

Notes:
 1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
 2. SF = Square Feet



LEGEND

- H Hairline Crack
- ~ Epoxy Crack Injection
- ▣ Structural Repair of Concrete (Depth Equal To or Less than 5 inches)
- SF - Square Foot
- LF - Linear Foot

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	21
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft.	38

MODEL: \$MODELNAME\$
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 JOB NO. 192-1063

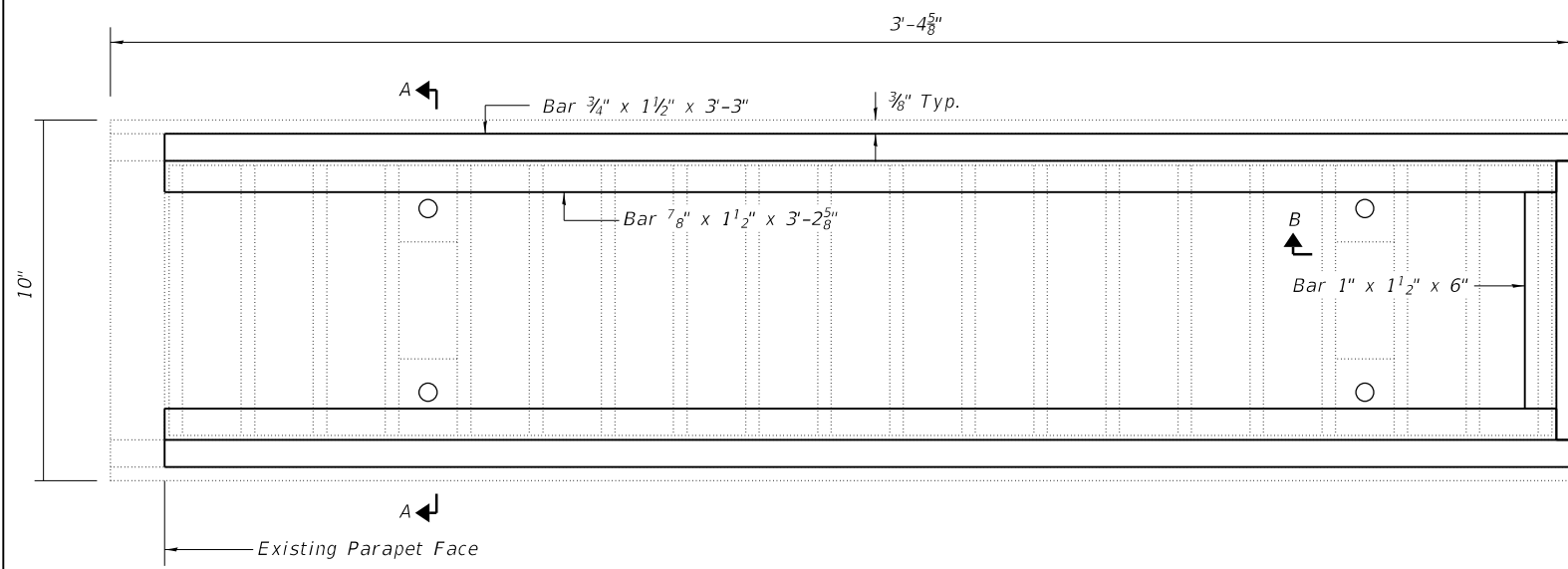
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	CHECKED - CJC	REVISED - _____
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DEPARTMENT OF TRANSPORTATION

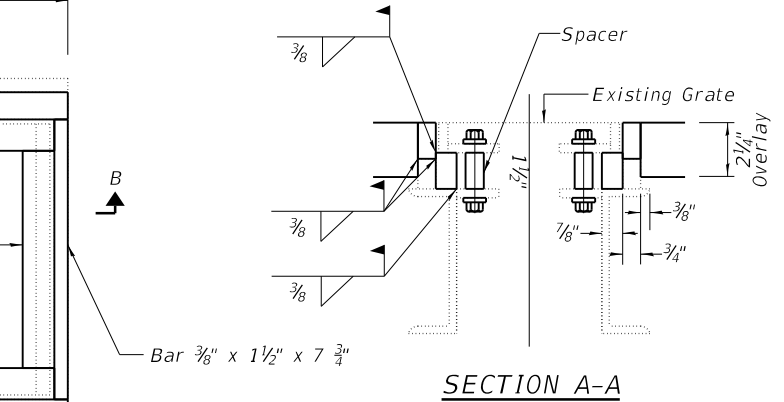
ABUTMENT REPAIR DETAILS
STRUCTURE NO. 090-0139

SHEET 6 OF 9 SHEETS

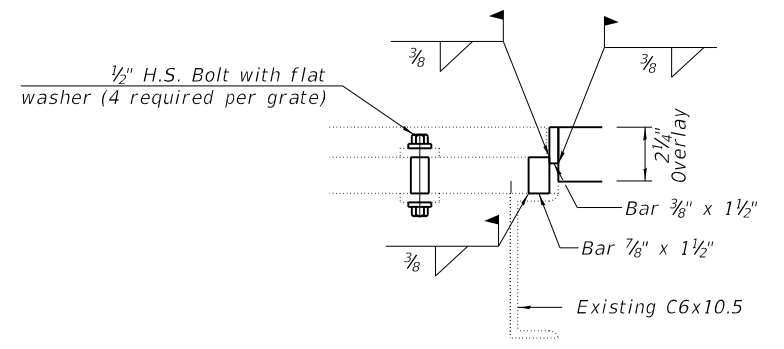
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	120
CONTRACT NO. 68H71				
		ILLINOIS	FED. AID PROJECT	



DRAINAGE SCUPPER - PLAN



SECTION A-A



SECTION B-B

Notes:
 The contractor shall ensure that no damage is done to existing gates to be reused.
 Shop plans for proposed adjusting inlet ring shall be submitted for approval prior to fabrication.
 Cost of all labor and materials necessary to remove existing gates, clean existing scuppers, install adjusting inlet rings and reinstalling gates is included in the cost per unit for drainage scuppers to be Adjusted.
 All structural steel shall conform to AASHTO Classification M-270 Gr. 36. The adjusting inlet ring shall be galvanized.
 Bolts shall be 1/2" φ, AASHTO M164 Type 1, mechanically galvanized.
 Existing Approach Draining dimensions per IDOT standard 609006.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drainage Scuppers to be Adjusted	Each	2

MODEL: \$MODELNAMES
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PLOT DATE =	DRAWN - AE	REVISED -
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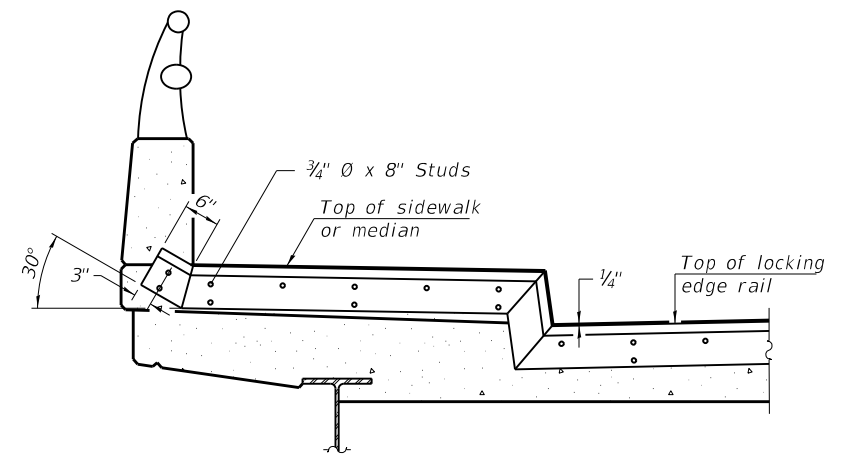
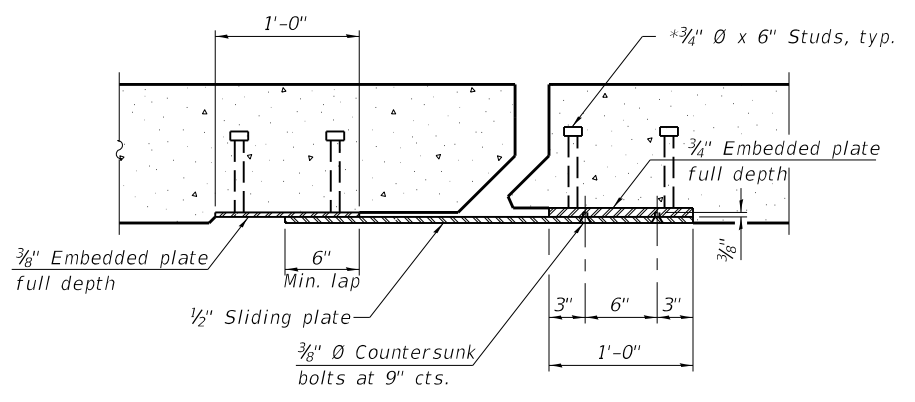
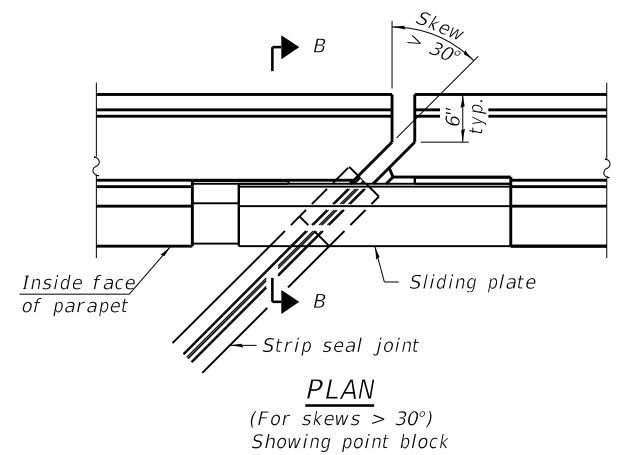
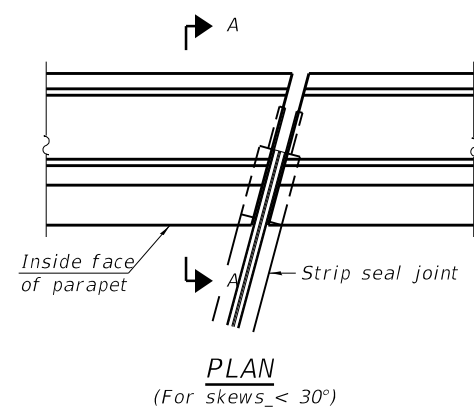
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SCUPPER ADJUSTMENT DETAILS
 STRUCTURE NO. 090-0139**

SHEET 7 OF 9 SHEETS

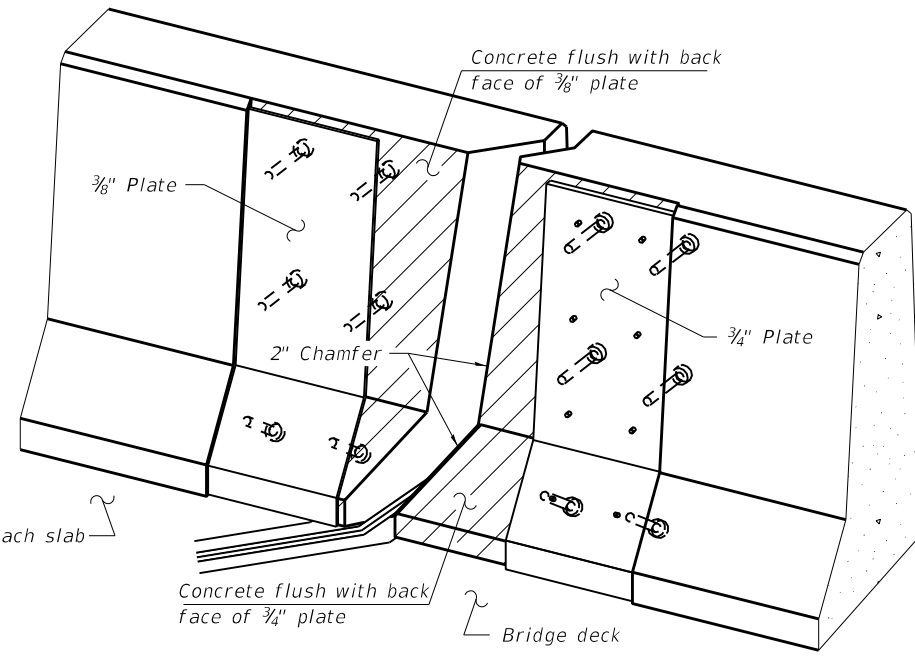
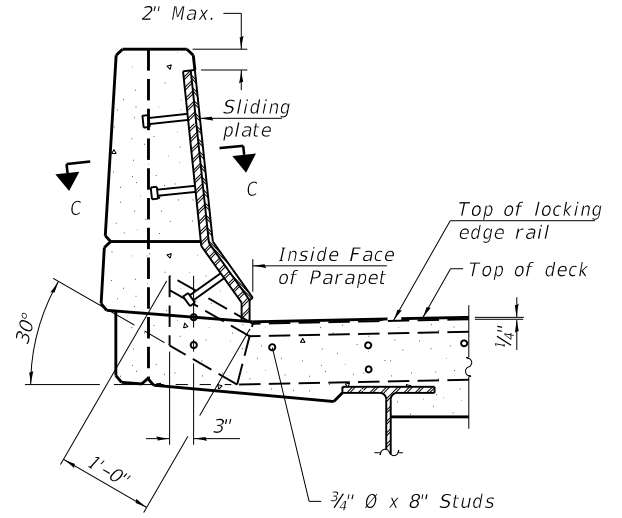
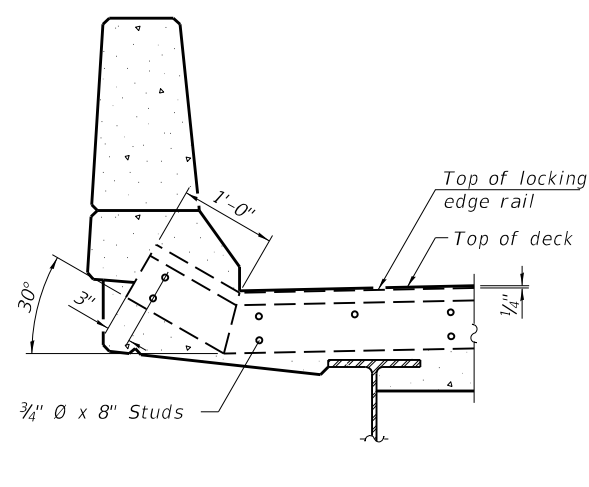
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	121
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

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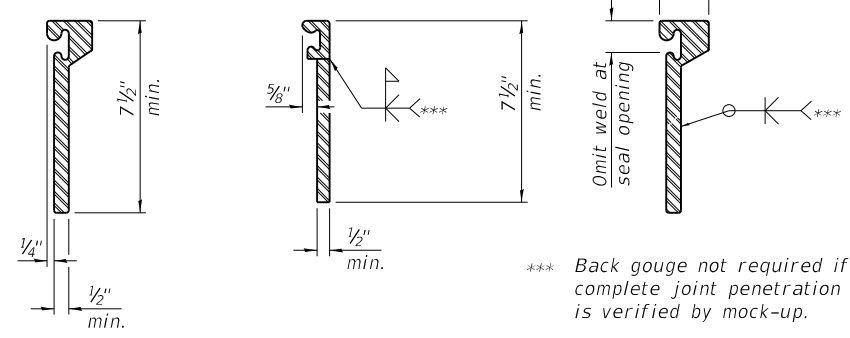
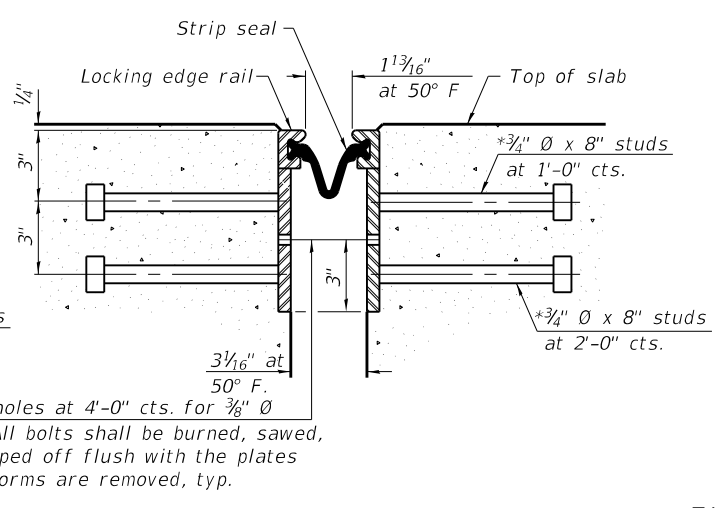
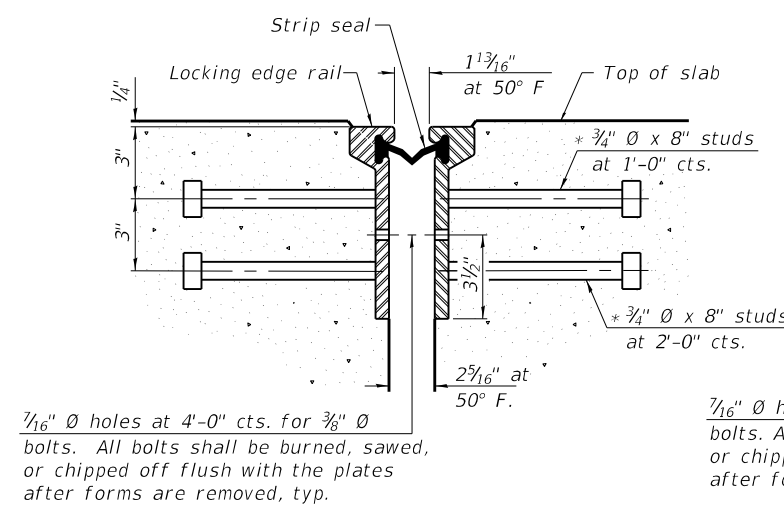


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
 The manufacturer's recommended installation methods shall be followed.
 The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.
 Parapet plates and anchorage studs for skews > 30° included in the cost of Prefomed Joint Strip Seal.



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

1/16" Ø holes at 4'-0" cts. for 3/8" Ø bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

3/16" Ø holes at 4'-0" cts. for 3/8" Ø bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

ROLLLED EXTRUDED RAIL
WELDED RAIL
LOCKING EDGE RAILS

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
Prefomed Joint Strip Seal	Foot	67

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

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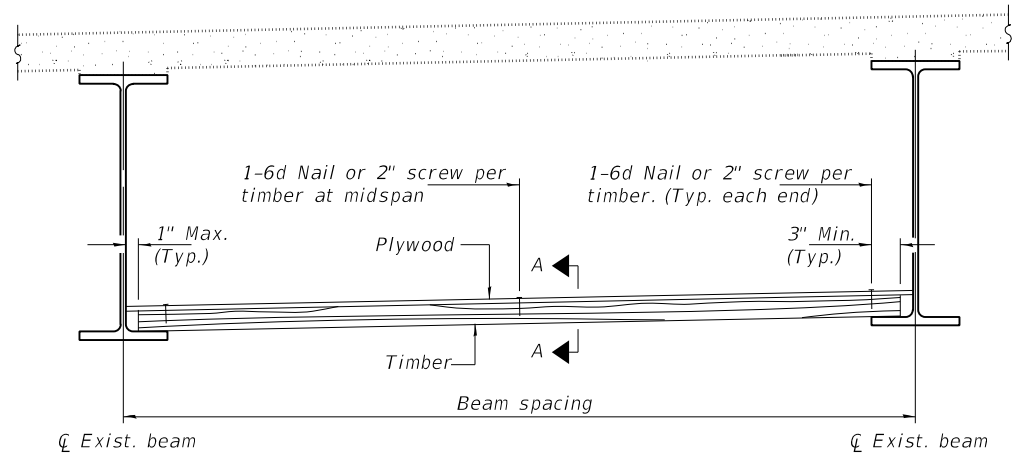
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 090-0139

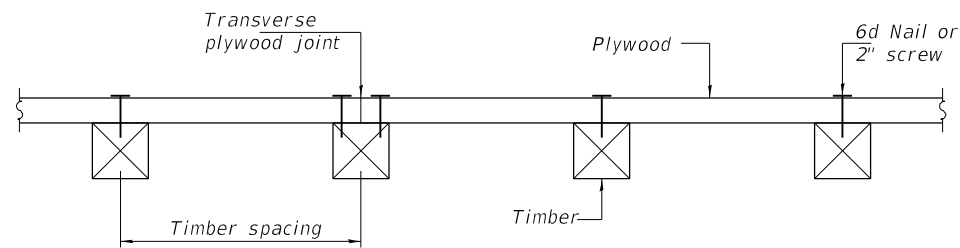
SHEET 8 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	122
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				

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STEEL BEAMS



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

Notes: See special provision for Permanent Protective Shield System.

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.

The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.

The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions. All timber shall be treated.

Plywood shall be 5/8" rated Exterior type plywood by APA.

Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers.

When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.

Design load = 200 psf.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	472

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**PERMANENT PROTECTIVE SHIELDING
 STRUCTURE NO. 090-0139**

SHEET 9 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	D4 BRIDGE JOINT REPAIR	TAZEWELL	123	123
CONTRACT NO. 68H71				
ILLINOIS FED. AID PROJECT				