

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	1
		ILLINOIS	CONTRACT NO. 68G91	

INDEX OF SHEETS

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- 19-31 048-0080 STRUCTURE PLANS
- 32-37 048-0085 STRUCTURE PLANS
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- 43-47 048-0089 STRUCTURE PLANS

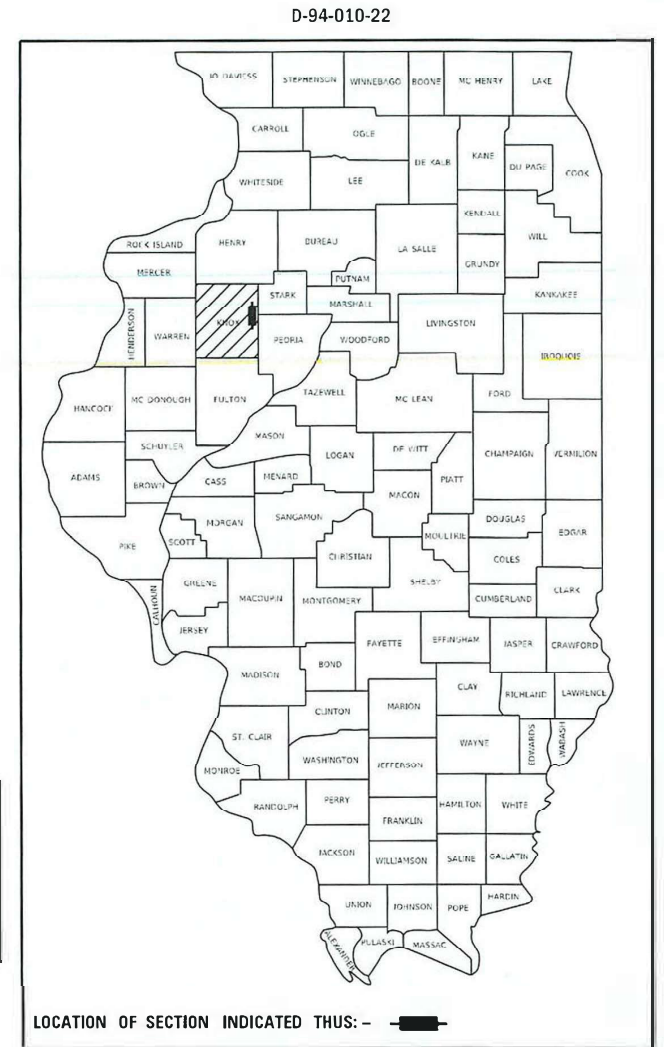
HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY LANE
- 701321-18 CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER TRAFFIC
- 701901-08 CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- 701006-05 OFF-RD OPERATIONS, 2L, W 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY

PROPOSED
HIGHWAY PLANS

FAS ROUTE 1195 (IL 180)
SECTION 112B[BR;BR(1,2,3)]BJR,BDR
PROJECT HBFP-V9G9(005)
BRIDGE PRESERVATION
KNOX COUNTY

C-94-025-22



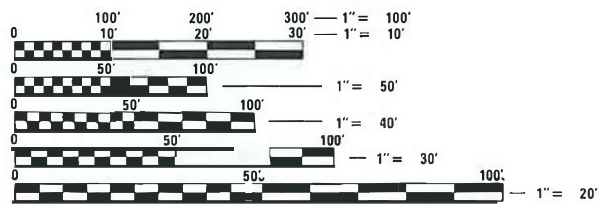
FUNCTIONAL CLASSIFICATION
MAJOR COLLECTOR
2021 ADT: 1150
PV: 93.9% SU: 2.6% MU: 3.5%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 20, 2023
Robert C. James
REGIONAL ENGINEER

December 9, 2022
Steph M. Smith
ENGINEER OF DESIGN AND ENVIRONMENT

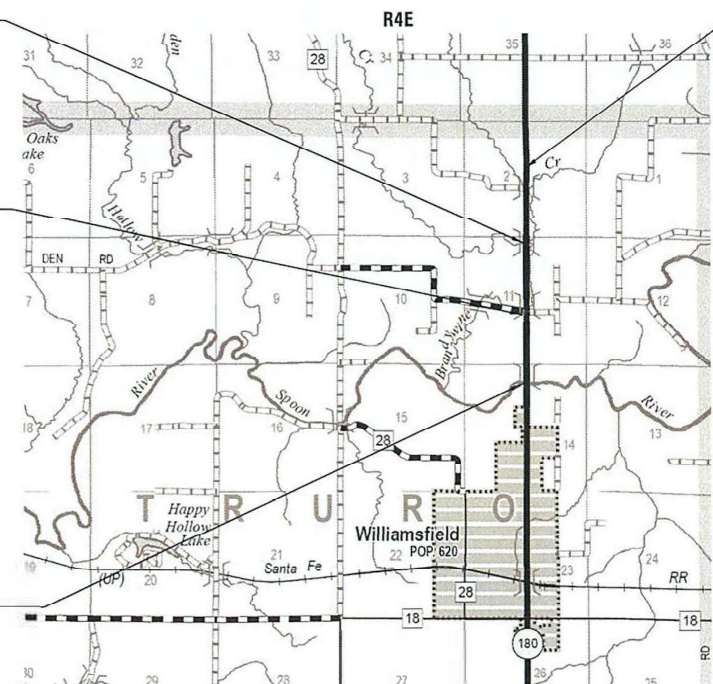
December 9, 2022
Steph M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION



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 NICOLE FAYANT (309) 671-3454
PROJECT MANAGER TRAVIS WALLENFANG (309) 671-3474
CATALOG NO. 036299-00D
CONTRACT NO. 68G91



SN 048-0085
IL 180 OVER CADWELL CREEK
STA 609+94.55 TO 610+75.72

SN 048-0086
IL 180 OVER CADWELL CREEK
STA 636+68.39 TO 637+93.39

SN 048-0080
IL 180 OVER SPOON RIVER
STA 667+24.00 TO 671+57.00

SN 048-0089
IL 180 OVER BRANDYWINE CREEK
STA 586+28.06 TO 587+21.94

GROSS LENGTH = 2159 FT. = 0.409 MILE
NET LENGTH = 2159 FT. = 0.409 MILE



SHEETS 1 to 18
ROBERT HANFLAND, PE
STATE OF ILLINOIS NO. 062-064104
EXPIRES 11-30-2023

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

COMMITMENTS

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT. COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

ENVIRONMENTAL REVIEW

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:

- BDE FORM 2289 (BORROW SITE REVIEW)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

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.

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.

PROJECT SPECIFIC NOTES

CHANGEABLE MESSAGE SIGNS

TWO (2) CHANGEABLE MESSAGE SIGNS SHALL BE PLACED SEVEN (7) DAYS IN ADVANCE OF WORK. FOR CH 1750N, AN ADDITIONAL CHANGEABLE MESSAGE SIGN SHALL BE PLACED 7 DAYS IN ADVANCE OF WORK. LOCATION AND MESSAGE TO BE COORDINATED AT PRECONSTRUCTION MEETING.

APPROACH ROADWAY CORRECTIONS

TO CORRECT THE DIP AT THE END OF THE APPROACHES, THE CONTRACTOR SHALL PLACE AND COMPACT A SCRATCH PASS OF BINDER MIX PRIOR TO PAVING AS DIRECTED BY THE RESIDENT ENGINEER. THIS WORK SHALL CONSIST OF A COMBINATION OF VARIABLE DEPTH MILLING AND HMA BINDER PLACEMENT. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL 9.5 N50.

BLR-21 ADDITIONAL SIGNAGE

A TYPE III BARRICADE SHALL BE PLACED AT THE INTERSECTION OF CH 1800N AND 2150E TO READ "ROAD CLOSED AT IL 180 - LOCAL TRAFFIC ONLY." THE PLACEMENT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER L SUM FOR TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21.

WIDTH RESTRICTION SIGNAGE

SIX (6) WIDTH RESTRICTION SIGNS SHALL BE USED THROUGHOUT THE PROJECT LOCATION. PRECISE LOCATIONS WILL BE COORDINATED AT THE PRE-CONSTRUCTION MEETING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

LOCATION(S)	MAINLINE	MAINLINE	SHOULDER	10' APPROACH PVMT PATCHING
MIXTURE USE(S)	SURFACE	POLYMER BINDER (VAR. IF NEEDED - 1.25" MAX)	SHOULDER REPAIR 2" LIFTS	PRE-STAGE PATCHING, 2"
AC/PG	PG 58-28	SBS OR SBR 70-28	PG 58-28	PG 58-28
DESIGN AIR Voids	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
MIXTURE COMPOSITION (MIXTURE GRADATION)	IL 9.5	IL 4.75	IL 9.5	IL 9.5
FRICTION AGGREGATE	MIX C	N.A.	MIX C	MIX C
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA	QCQA	QCQA
MTD	NO	NO	NO	NO

BITUMINOUS MATERIALS APPLICATION RATES

SURFACE TYPE	RESIDUAL RATE ON PAVEMENT
MILLED SURFACE	0.08 LBS/SQFT
BETWEEN ALL LIFTS	0.08 LBS/SQFT

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EFFINGHAM, IL
LICENSE # 184.003222

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	1128[BR;BR(1,2,3)B]R,BDR	KNOX	47	2
CONTRACT NO. 68G91				
ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047
				048-0080	048-0085	048-0086	048-0089
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	127		127		
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	15	15			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2802	671	639	661	831
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	2046	413	446	487	700
40603205	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON	19	4	5	5	5
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	172	35	37	41	59
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	923	259	221	215	228
44004250	PAVED SHOULDER REMOVAL	SQ YD	15	15			
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	11	7			4
48203100	HOT-MIX ASPHALT SHOULDERS	TON	210	59	50	49	52
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	15	15			
50102400	CONCRETE REMOVAL	CU YD	9.1	9.1			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	9.5	9.5			
50300260	BRIDGE DECK GROOVING	SQ YD	3207	1474	467	611	655
50300300	PROTECTIVE COAT	SQ YD	3401	1562	498	652	689
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1490	1490			

* SEE SPECIAL PROVISIONS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	1128[BR;BR(1,2,3)B]R,BDR	KNOX	47	3
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047
				048-0080	048-0085	048-0086	048-0089
50800515	BAR SPLICERS	EACH	28	28			
52000110	PREFORMED JOINT STRIP SEAL	FOOT	65	65			
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	10	4	2	4	
60600605	CONCRETE CURB, TYPE B	FOOT	32	32			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	1.75	1.75	1.75	1.75
63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	1520	360	400	440	320
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	4	1	1	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.25	0.25	0.25	0.25
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	4	1	1	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	24	6	6	6	6
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	5850	1800	1160	1690	1200
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	21	3.5	3.5	3.5	10.5
70300100	SHORT TERM PAVEMENT MARKING	FOOT	135	54	24	30	27
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1995	618	395	573	409
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	8596	2268	1699	2609	2020

* SEE SPECIAL PROVISIONS

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PLOT DATE = 10/18/2022	DATE - 10/18/2022	REVISED -

DESIGNED - RLH	REVISED -
DRAWN - EJB	REVISED -
CHECKED - RLH	REVISED -
DATE - 10/18/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	1128[BR;BR(1,2,3)B]R,BDR	KNOX	47	4
CONTRACT NO. 68G91			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0047	0047	0047	0047
				048-0080	048-0085	048-0086	048-0089
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1813	675	350	413	375
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1813	675	350	413	375
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	8	2	2	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	8	2	2	2	2
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	8596	2268	1699	2609	2020
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2865	756	566	870	673
X0556100	PARTIAL DEPTH PATCHING (SPECIAL)	SQ YD	220	49	57	56	58
X4421000	PARTIAL DEPTH PATCHING	TON	25	6	6	6	7
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1			1	
Z0001905	STRUCTURAL STEEL REPAIR	POUND	170	170			
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	3398	1559	498	652	689
Z0012162	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	3398	1559	498	652	689
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2.9	2.9			
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	9.9	9.9			
∅ Z0076600	TRAINEES	HOUR	500	500			
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	4	4			
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500			

* SEE SPECIAL PROVISIONS ∅ 0042

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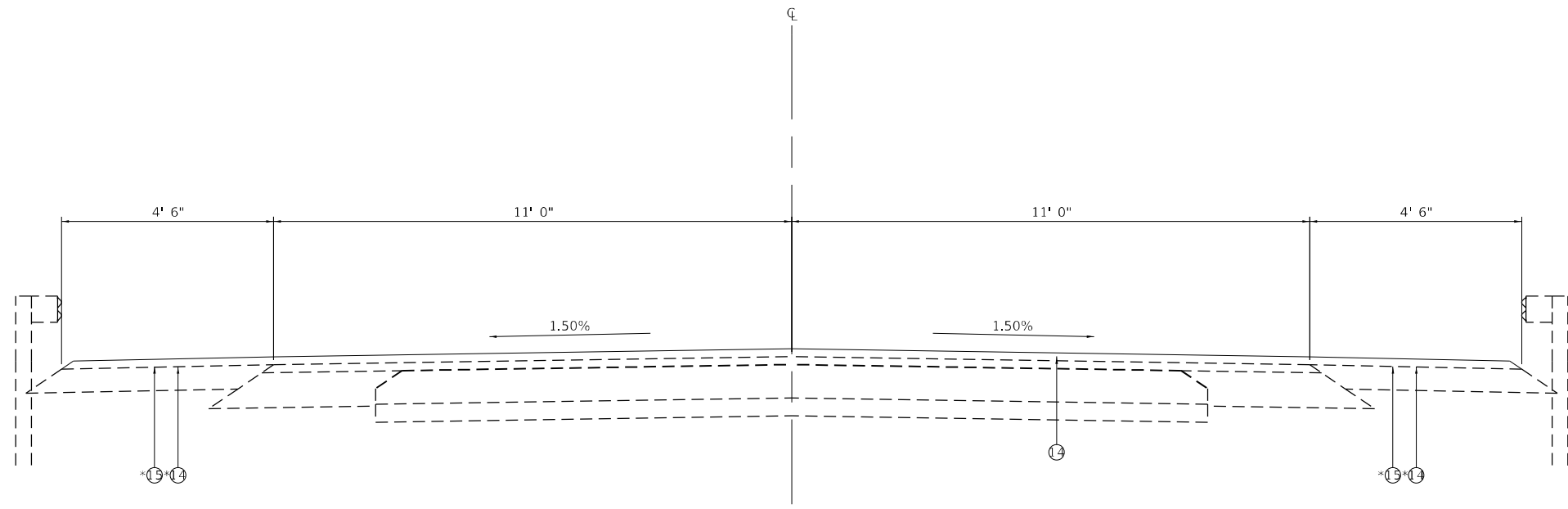
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	1128[BR;BR(1,2,3)BJR,BDR	KNOX	47	5
CONTRACT NO. 68G91			ILLINOIS FED. AID PROJECT	

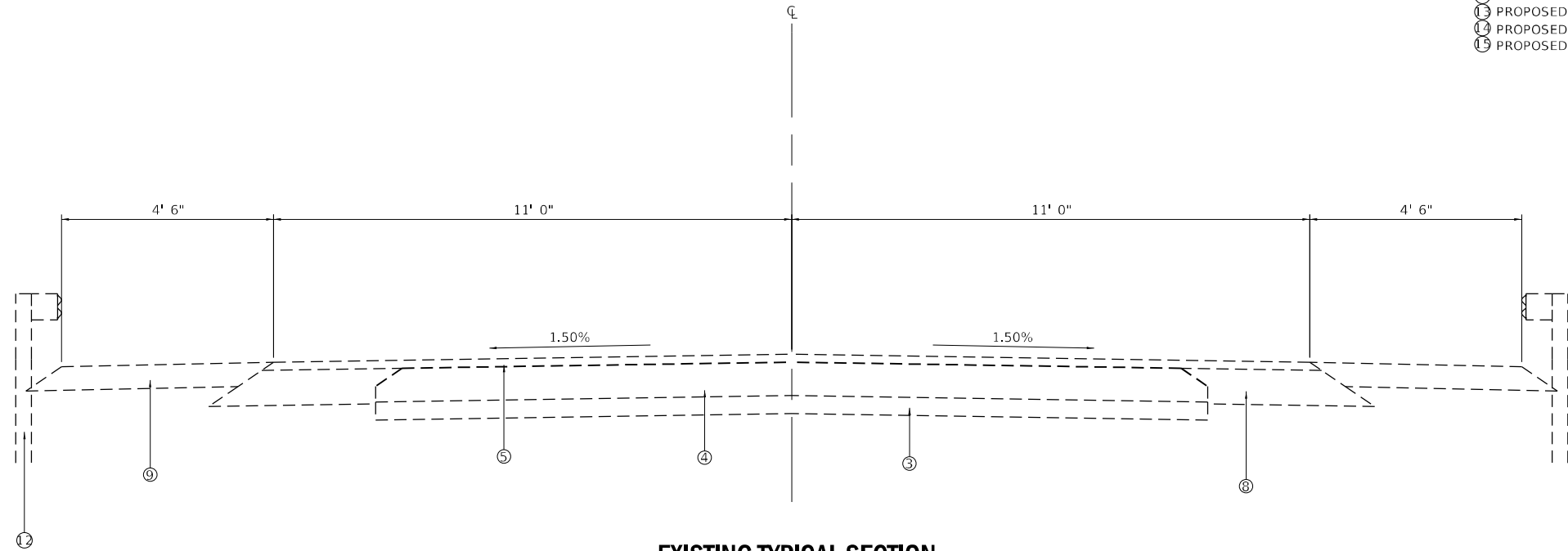


PROPOSED TYPICAL SECTION

STA. 666+34 TO STA. 667+04 (MAINLINE OVERLAY)
 STA. 671+75 TO STA. 672+45 (MAINLINE OVERLAY)

* PRE STAGE SHOULDER CONSTRUCTION LIMITS
 STA. 665+90 TO STA. 667+04 LT
 STA. 665+93 TO STA. 667+04 RT
 STA. 671+75 TO STA. 672+80 LT
 STA. 671+75 TO STA. 673+00 RT

- ① EXISTING SUBBASE GRANULAR MATERIAL, 12"
- ② EXISTING AREA REFLECTIVE CRACK CONTROL
- ③ EXISTING P.C.C. PAVEMENT
- ④ EXISTING HMA 4"±
- ⑤ EXISTING HMA 2"
- ⑥ EXISTING HMA 2½"
- ⑦ EXISTING HMA 10"
- ⑧ EXISTING BASE COURSE WIDENING 9"
- ⑨ EXISTING BITUMINOUS SHOULDER 6"
- ⑩ EXISTING AGG SHOULDER
- ⑪ EXISTING EROSION CONTROL CURB
- ⑫ EXISTING GUARDRAIL
- ⑬ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1½"
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- ⑮ PROPOSED HOT-MIX ASPHALT SHOULDERS



EXISTING TYPICAL SECTION

STA. 666+34 TO STA. 667+04
 STA. 671+75 TO STA. 672+45

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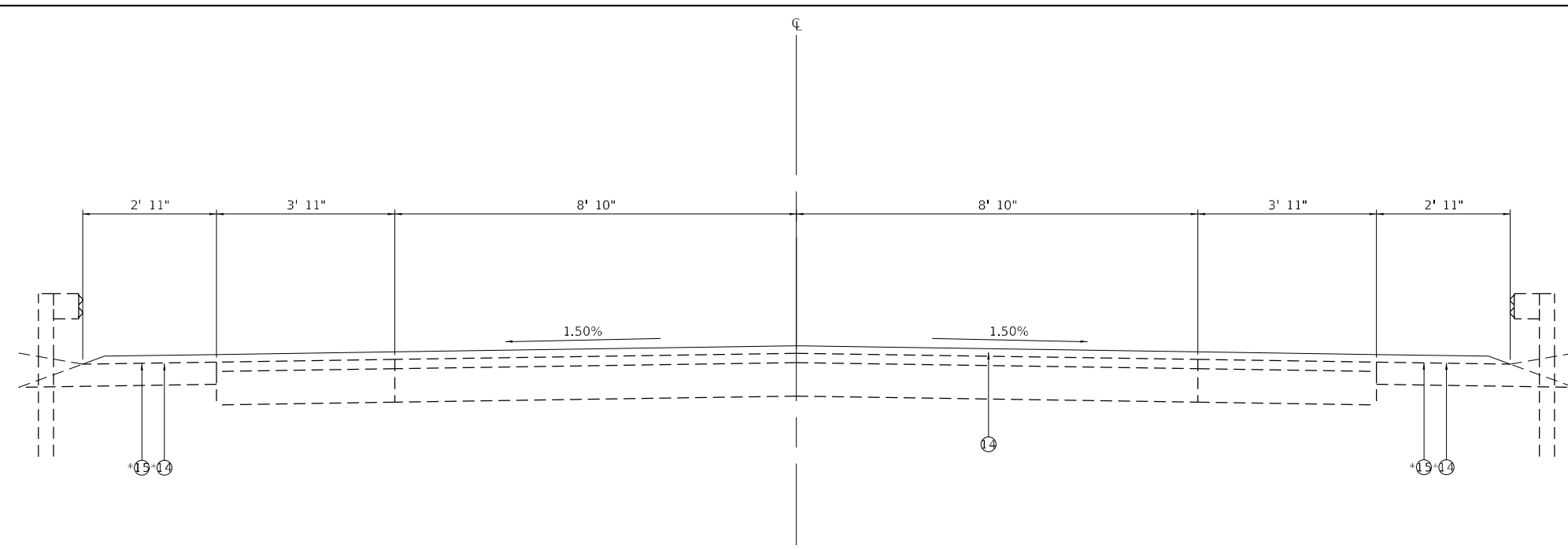
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 SN 048-0080

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	1128[BR;BR(1,2,3)B]R,BDR	KNOX	47	7
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

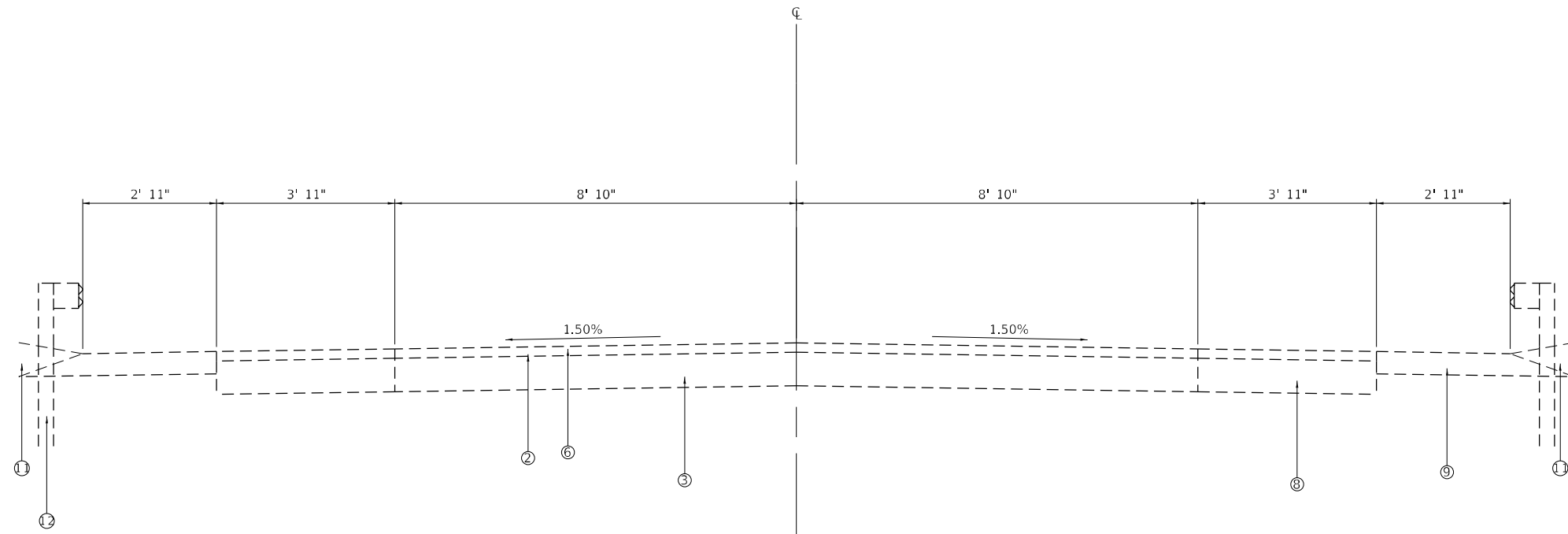


PROPOSED TYPICAL SECTIONS

STA. 608+92 TO STA. 609+69 (MAINLINE OVERLAY)
 STA. 611+02 TO STA. 611+73 (MAINLINE OVERLAY)

* PRE STAGE SHOULDER CONSTRUCTION LIMITS
 STA. 608+00 TO STA. 609+69 LT
 STA. 608+02 TO STA. 609+62 RT
 STA. 611+02 TO STA. 612+69 RT
 STA. 611+08 TO STA. 612+75 LT

- 1 EXISTING SUBBASE GRANULAR MATERIAL, 12"
- 2 EXISTING AREA REFLECTIVE CRACK CONTROL
- 3 EXISTING P.C.C. PAVEMENT
- 4 EXISTING HMA 4" ±
- 5 EXISTING HMA 2"
- 6 EXISTING HMA 2 1/2"
- 7 EXISTING HMA 10"
- 8 EXISTING BASE COURSE WIDENING 9"
- 9 EXISTING BITUMINOUS SHOULDER 6"
- 10 EXISTING AGG SHOULDER
- 11 EXISTING EROSION CONTROL CURB
- 12 EXISTING GUARDRAIL
- 13 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- 14 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- 15 PROPOSED HOT-MIX ASPHALT SHOULDERS



EXISTING TYPICAL SECTIONS

STA. 608+92 TO STA. 609+64
 STA. 611+05 TO STA. 611+73

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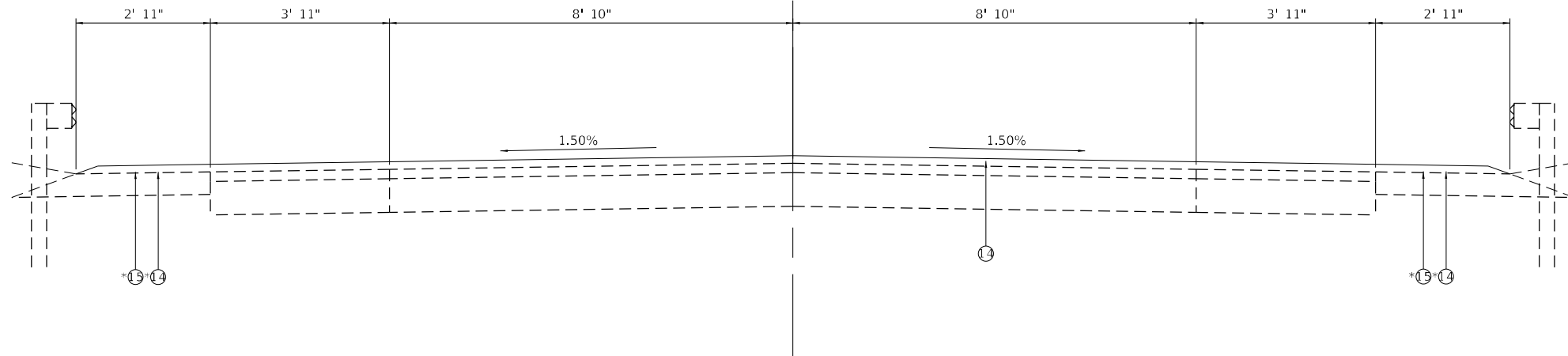


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PLOT DATE = 10/17/2022	DATE - 10/17/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS SN 048-0085			
SCALE:	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)B/R,BDR	KNOX	47	8
				CONTRACT NO. 68G91
		ILLINOIS	FED. AID PROJECT	

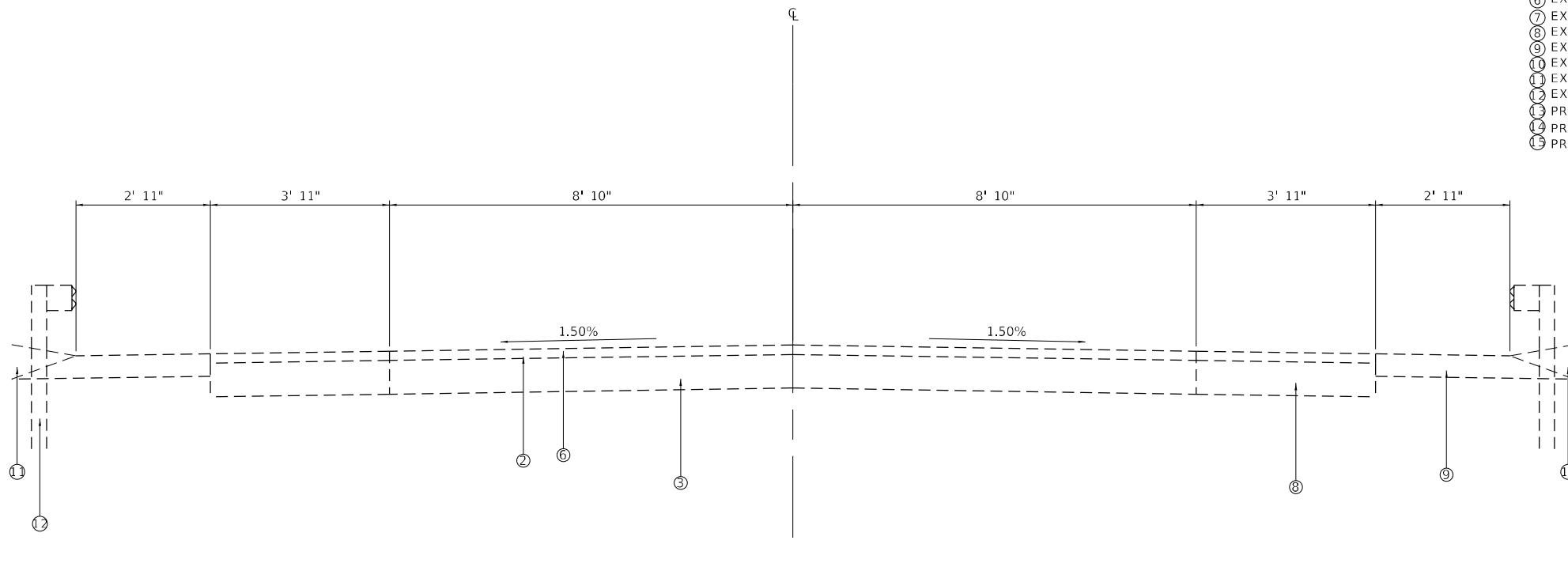


PROPOSED TYPICAL SECTIONS

STA. 635+59 TO STA. 636+47 (MAINLINE OVERLAY)
 STA. 638+14 TO STA. 639+03 (MAINLINE OVERLAY)

* PRE STAGE SHOULDER CONSTRUCTION LIMITS
 STA. 634+43 TO STA. 636+34 LT
 STA. 634+51 TO STA. 636+47 RT
 STA. 638+14 TO STA. 639+30 LT
 STA. 638+29 TO STA. 639+17 RT

- ① EXISTING SUBBASE GRANULAR MATERIAL, 12"
- ② EXISTING AREA REFLECTIVE CRACK CONTROL
- ③ EXISTING P.C.C. PAVEMENT
- ④ EXISTING HMA 4"±
- ⑤ EXISTING HMA 2"
- ⑥ EXISTING HMA 2½"
- ⑦ EXISTING HMA 10"
- ⑧ EXISTING BASE COURSE WIDENING 9"
- ⑨ EXISTING BITUMINOUS SHOULDER 6"
- ⑩ EXISTING AGG SHOULDER
- ⑪ EXISTING EROSION CONTROL CURB
- ⑫ EXISTING GUARDRAIL
- ⑬ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1½"
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- ⑮ PROPOSED HOT-MIX ASPHALT SHOULDERS



EXISTING TYPICAL SECTIONS

STA. 635+59 TO STA. 636+38
 STA. 638+23 TO STA. 639+03

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 LICENSE # 184.003222

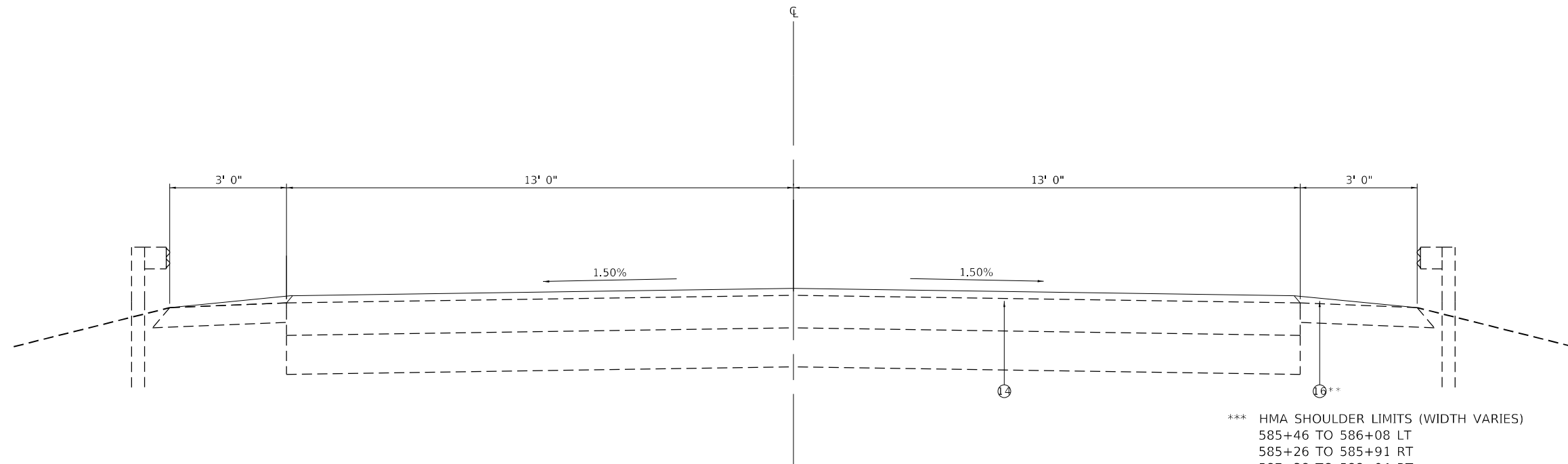
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 SN 048-0086**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				



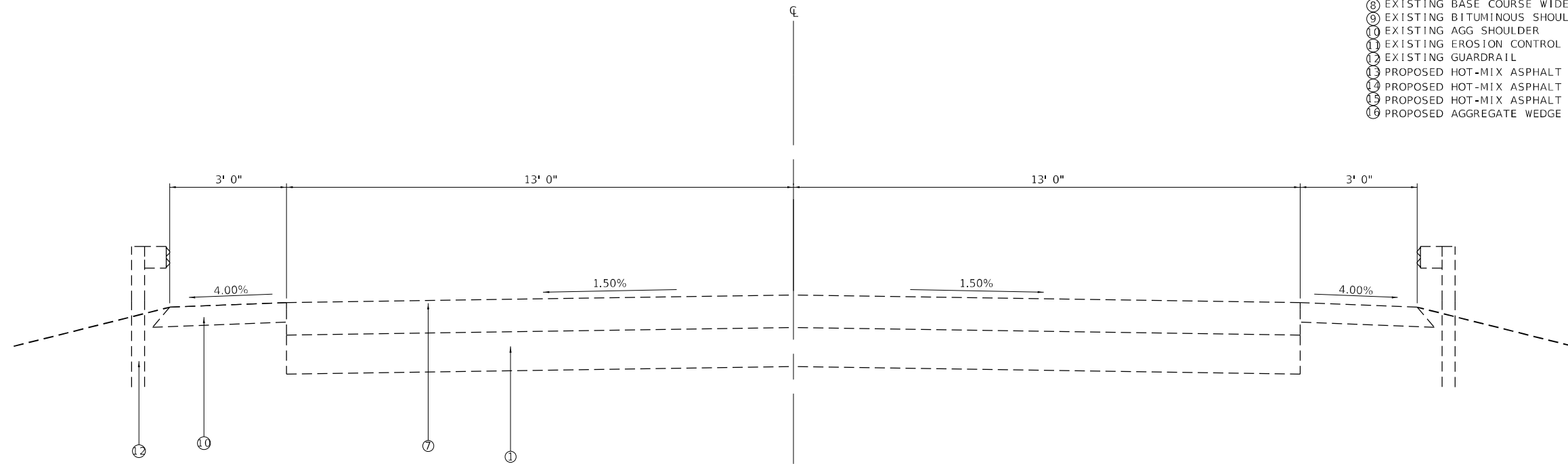
*** HMA SHOULDER LIMITS (WIDTH VARIES)
 585+46 TO 586+08 LT
 585+26 TO 585+91 RT
 587+38 TO 588+04 RT
 587+59 TO 588+16 LT

PROPOSED TYPICAL SECTIONS

STA. 585+21 TO STA. 586+08 (MAINLINE OVERLAY)
 STA. 587+38 TO STA. 588+38 (MAINLINE OVERLAY)

* PRE STAGE SHOULDER CONSTRUCTION LIMITS
 585+46 TO 586+08 LT
 585+26 TO 585+91 RT
 587+38 TO 588+04 RT
 587+59 TO 588+16 LT

- ① EXISTING SUBBASE GRANULAR MATERIAL, 12"
- ② EXISTING AREA REFLECTIVE CRACK CONTROL
- ③ EXISTING P.C.C. PAVEMENT
- ④ EXISTING HMA 4"±
- ⑤ EXISTING HMA 2"
- ⑥ EXISTING HMA 2½"
- ⑦ EXISTING HMA 10"
- ⑧ EXISTING BASE COURSE WIDENING 9"
- ⑨ EXISTING BITUMINOUS SHOULDER 6"
- ⑩ EXISTING AGG SHOULDER
- ⑪ EXISTING EROSION CONTROL CURB
- ⑫ EXISTING GUARDRAIL
- ⑬ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1½"
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- ⑮ PROPOSED HOT-MIX ASPHALT SHOULDERS
- ⑯ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



EXISTING TYPICAL SECTIONS

STA. 585+21 TO STA. 585+98
 STA. 587+52 TO STA. 588+29

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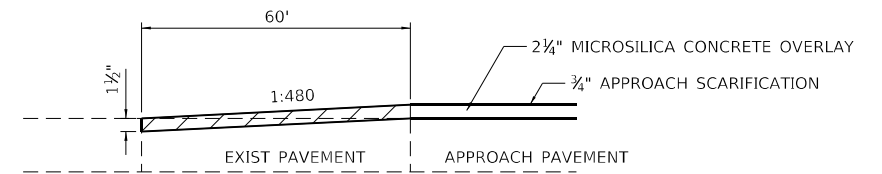
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

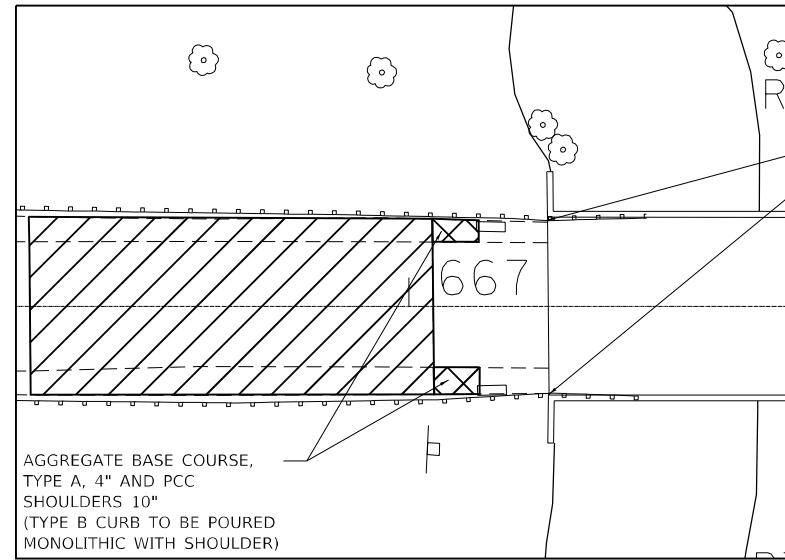
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 SN 048-0089

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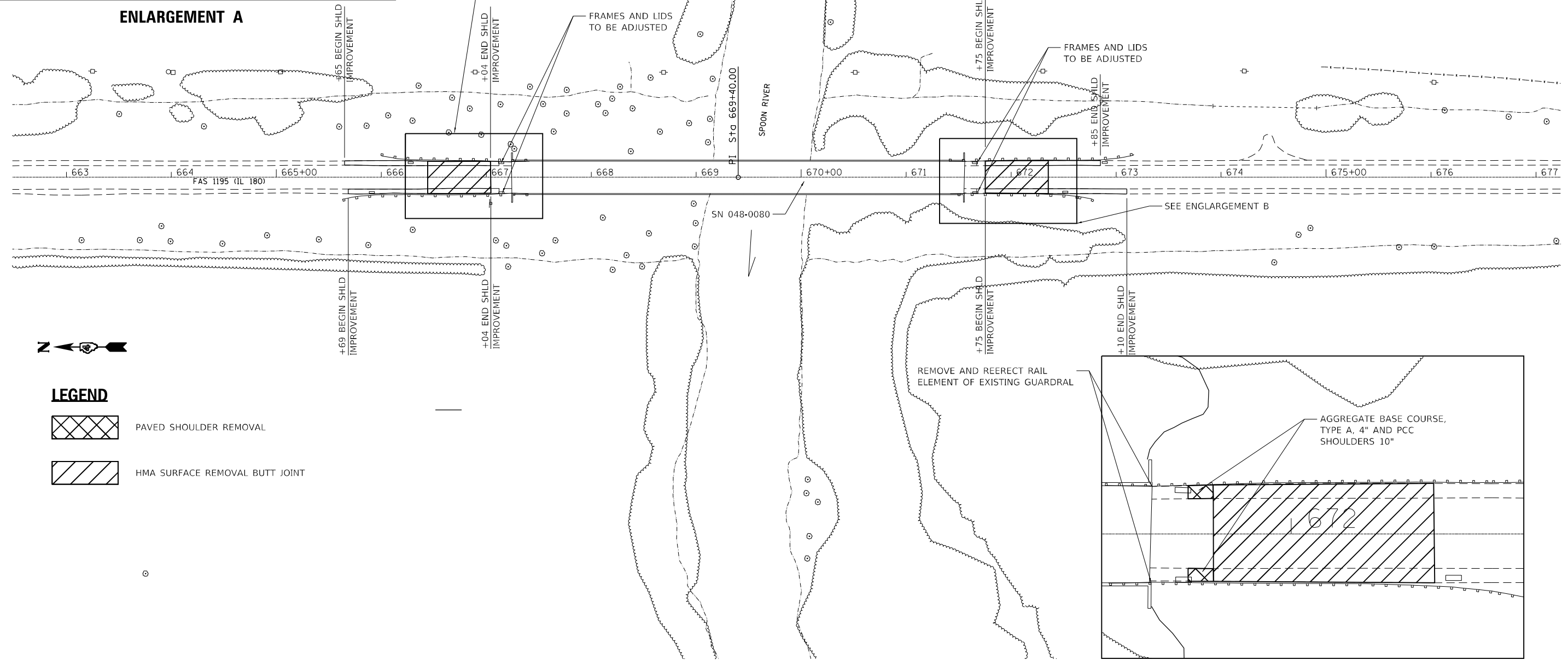
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CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				



HOT-MIX ASPHALT SURFACE REMOVAL BUTT-JOINT DETAIL



ENLARGEMENT A



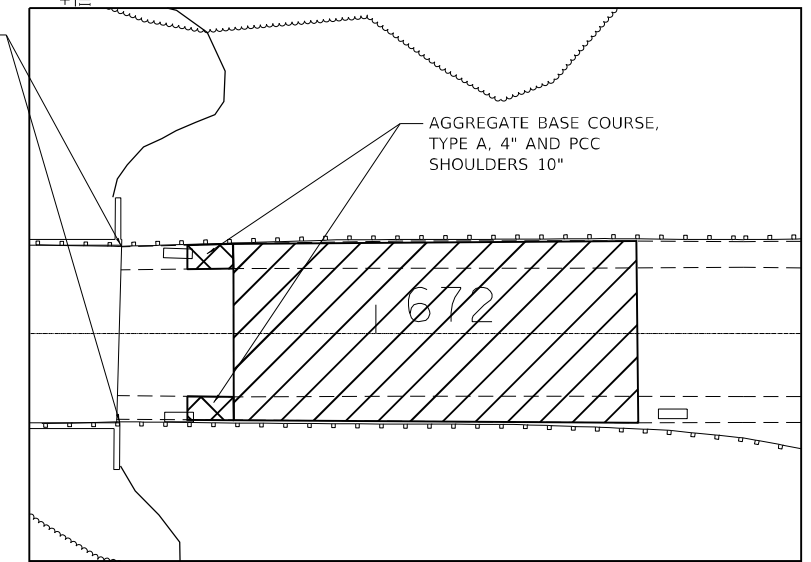
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PAVED SHOULDER REMOVAL



HMA SURFACE REMOVAL BUTT JOINT



ENLARGEMENT B

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW
SN 048-0080**

SCALE: 1"=50'

SHEET 1 OF 1 SHEETS STA. TO STA.

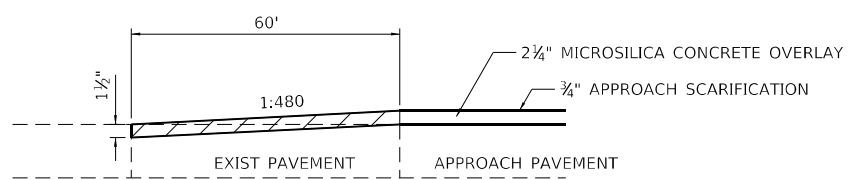
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CONTRACT NO. 68G91				

ILLINOIS FED. AID PROJECT

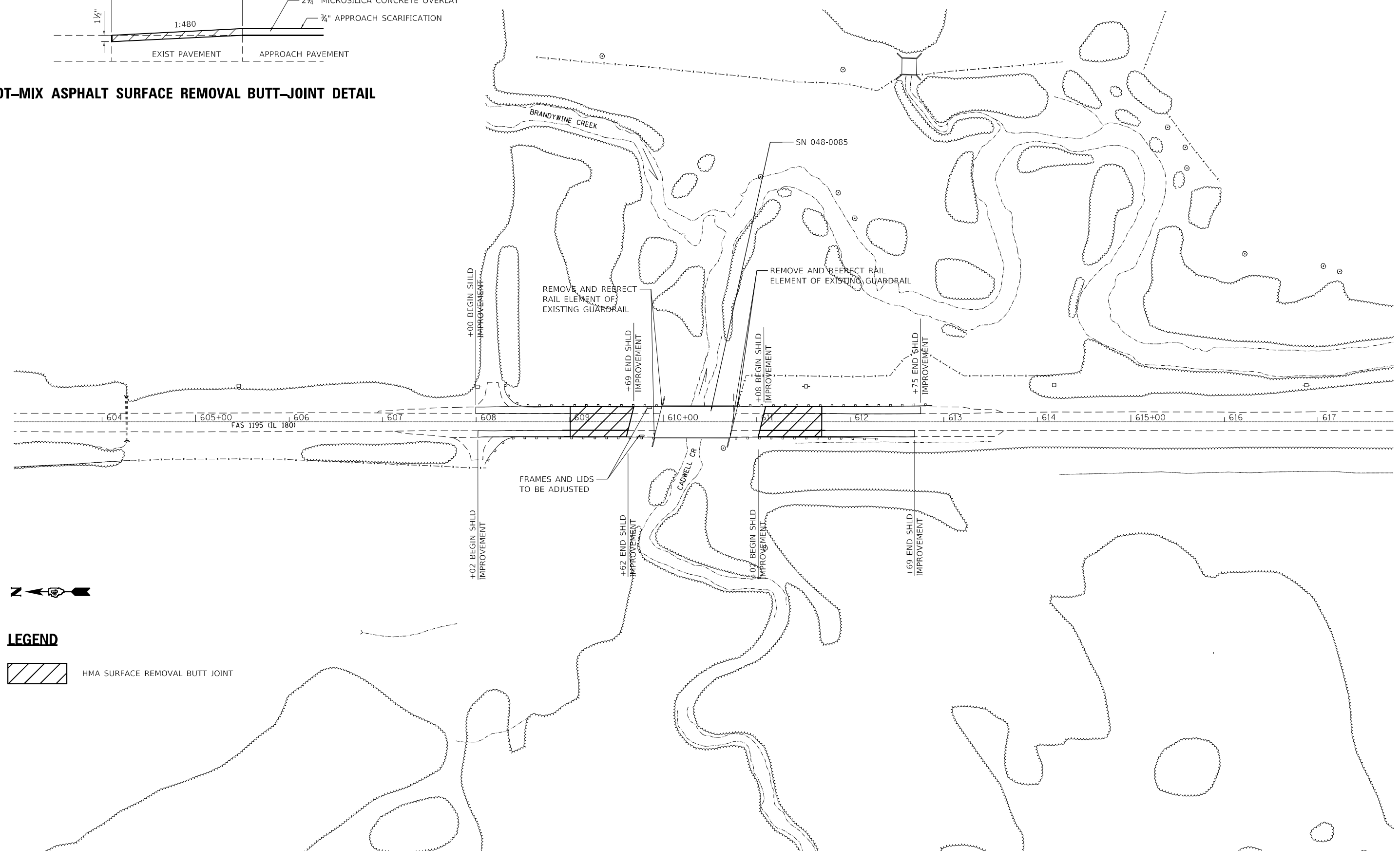
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PLOT DATE = 10/18/2022	DATE - 10/18/2022	REVISED -



HOT-MIX ASPHALT SURFACE REMOVAL BUTT-JOINT DETAIL



LEGEND



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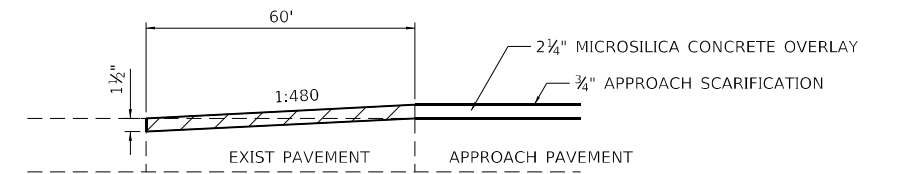


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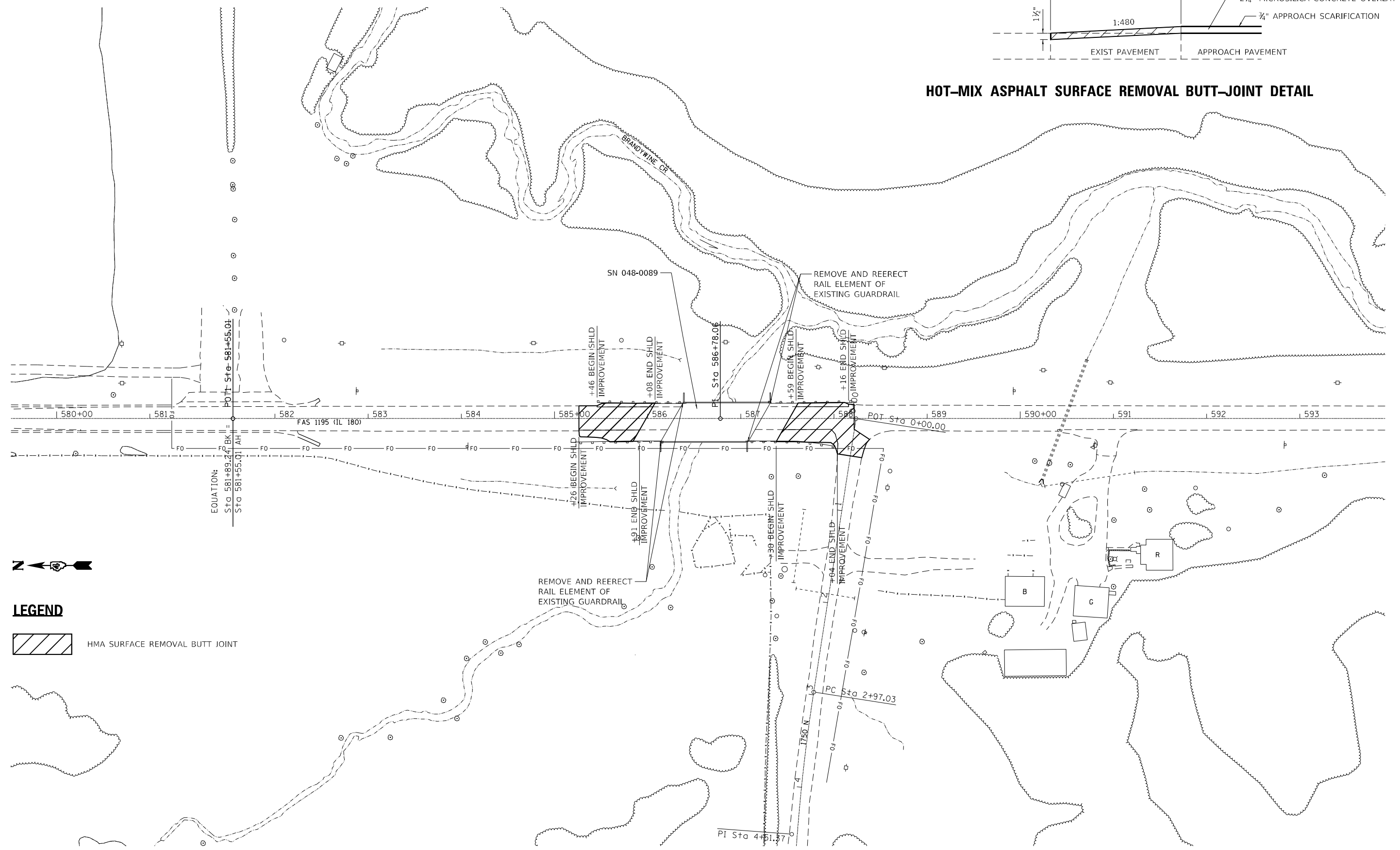
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PLOT DATE	= 10/17/2022				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=50'	SHEET 1	OF 1 SHEETS	STA.	TO STA.	PLAN VIEW SN 048-0085			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					1195	1128[BK;BR(1,2,3)BJR,BDR	KNOX	47	12			
										CONTRACT NO. 68G91		
										ILLINOIS FED. AID PROJECT		



HOT-MIX ASPHALT SURFACE REMOVAL BUTT-JOINT DETAIL



LEGEND

HMA SURFACE REMOVAL BUTT JOINT

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USER NAME = rhanfland
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 CHECKED = RLH
 DATE = 10/17/2022

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 DRAWN - EJB
 CHECKED - RLH
 DATE - 10/17/2022

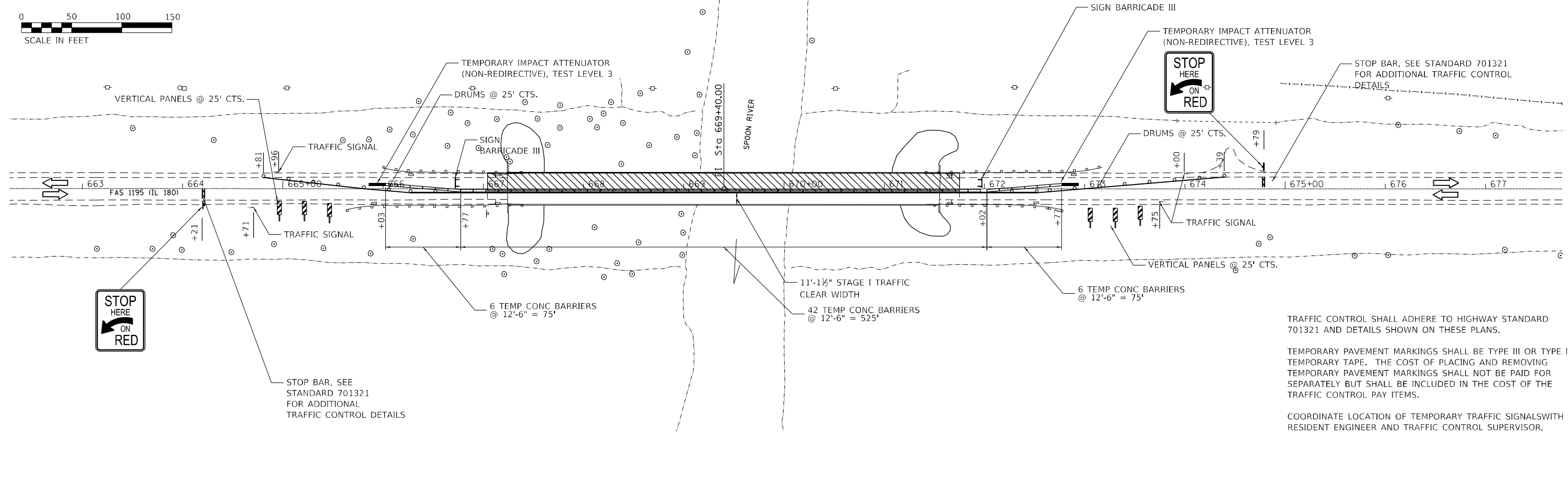
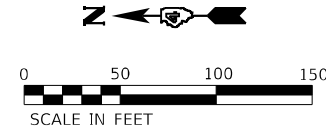
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW
 SN 048-0089**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

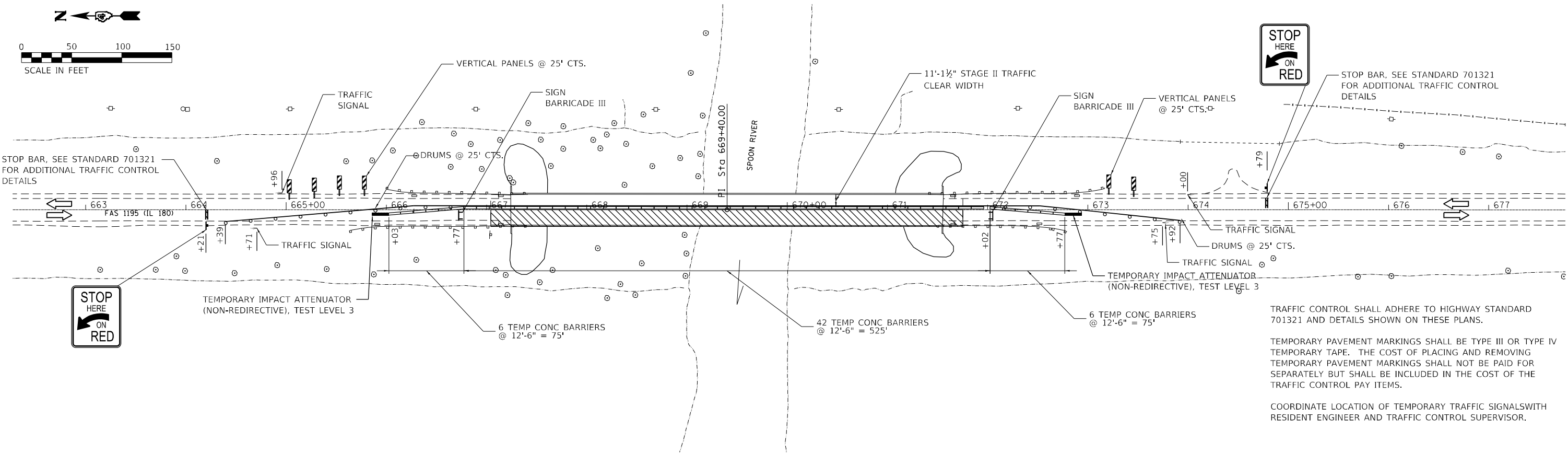
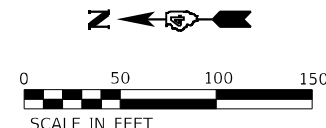
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1195	1128[BR;BR(1,2,3)B]R,BDR	KNOX	47	14
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL SHALL ADHERE TO HIGHWAY STANDARD 701321 AND DETAILS SHOWN ON THESE PLANS.

TEMPORARY PAVEMENT MARKINGS SHALL BE TYPE III OR TYPE IV TEMPORARY TAPE. THE COST OF PLACING AND REMOVING TEMPORARY PAVEMENT MARKINGS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL PAY ITEMS.

COORDINATE LOCATION OF TEMPORARY TRAFFIC SIGNALS WITH RESIDENT ENGINEER AND TRAFFIC CONTROL SUPERVISOR.



TRAFFIC CONTROL SHALL ADHERE TO HIGHWAY STANDARD 701321 AND DETAILS SHOWN ON THESE PLANS.

TEMPORARY PAVEMENT MARKINGS SHALL BE TYPE III OR TYPE IV TEMPORARY TAPE. THE COST OF PLACING AND REMOVING TEMPORARY PAVEMENT MARKINGS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL PAY ITEMS.

COORDINATE LOCATION OF TEMPORARY TRAFFIC SIGNALS WITH RESIDENT ENGINEER AND TRAFFIC CONTROL SUPERVISOR.

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LICENSE #184.003222

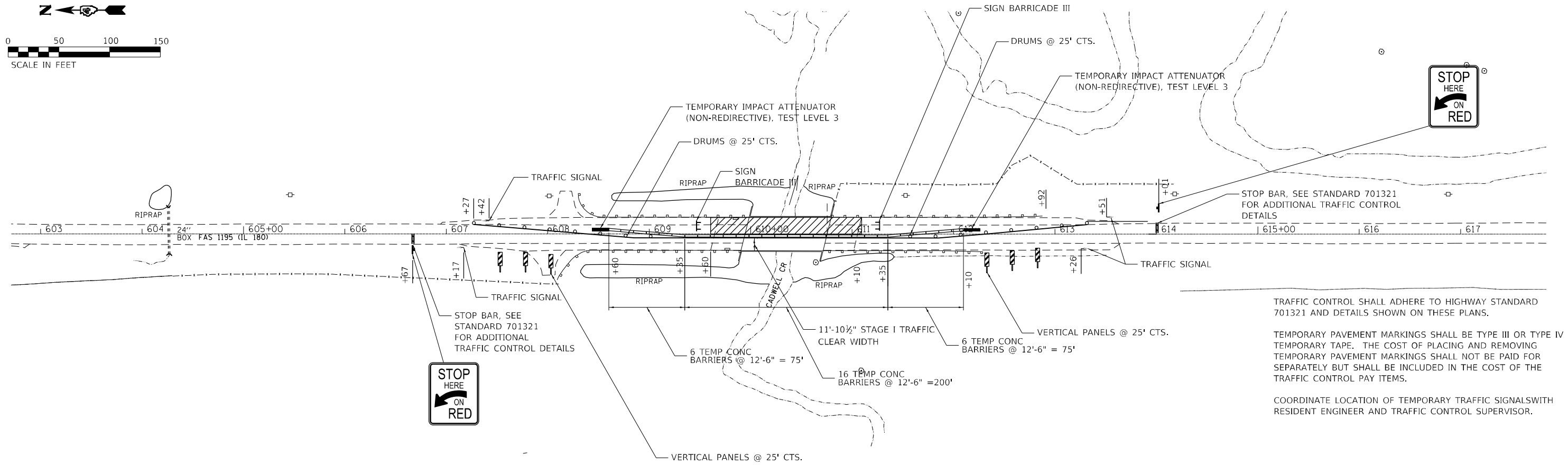
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PLOT DATE = 10/17/2022	DATE - 10/17/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
SN 048-0080**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

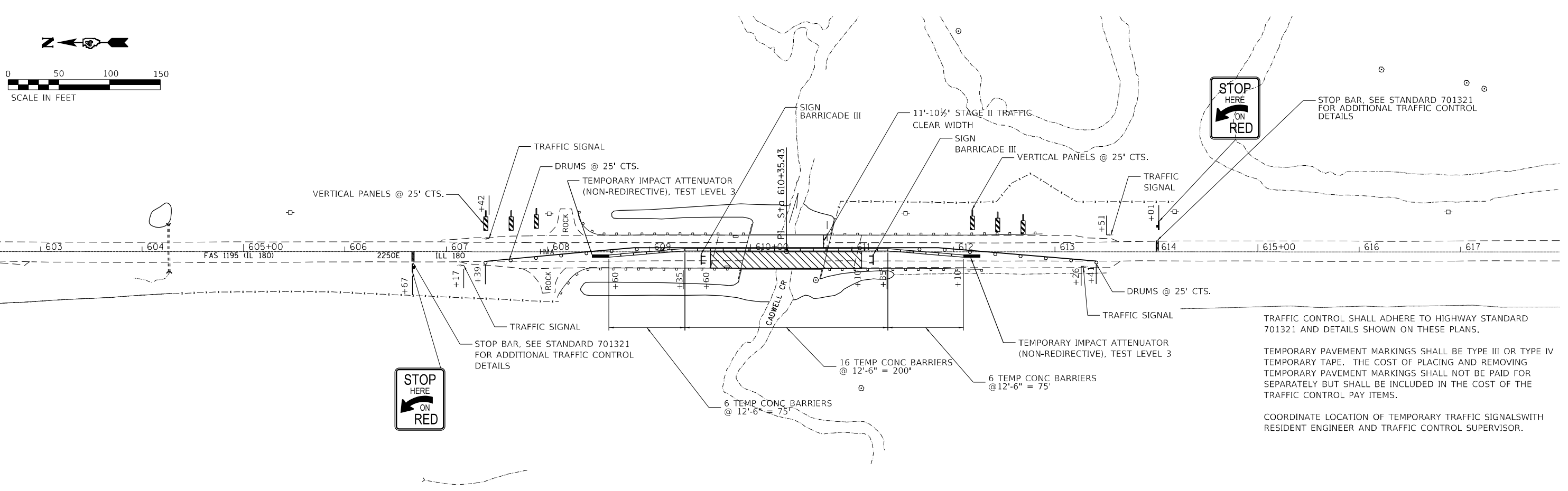
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CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL SHALL ADHERE TO HIGHWAY STANDARD 701321 AND DETAILS SHOWN ON THESE PLANS.

TEMPORARY PAVEMENT MARKINGS SHALL BE TYPE III OR TYPE IV TEMPORARY TAPE. THE COST OF PLACING AND REMOVING TEMPORARY PAVEMENT MARKINGS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL PAY ITEMS.

COORDINATE LOCATION OF TEMPORARY TRAFFIC SIGNALS WITH RESIDENT ENGINEER AND TRAFFIC CONTROL SUPERVISOR.



TRAFFIC CONTROL SHALL ADHERE TO HIGHWAY STANDARD 701321 AND DETAILS SHOWN ON THESE PLANS.

TEMPORARY PAVEMENT MARKINGS SHALL BE TYPE III OR TYPE IV TEMPORARY TAPE. THE COST OF PLACING AND REMOVING TEMPORARY PAVEMENT MARKINGS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL PAY ITEMS.

COORDINATE LOCATION OF TEMPORARY TRAFFIC SIGNALS WITH RESIDENT ENGINEER AND TRAFFIC CONTROL SUPERVISOR.

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EFFINGHAM, IL
LICENSE # 184.003222

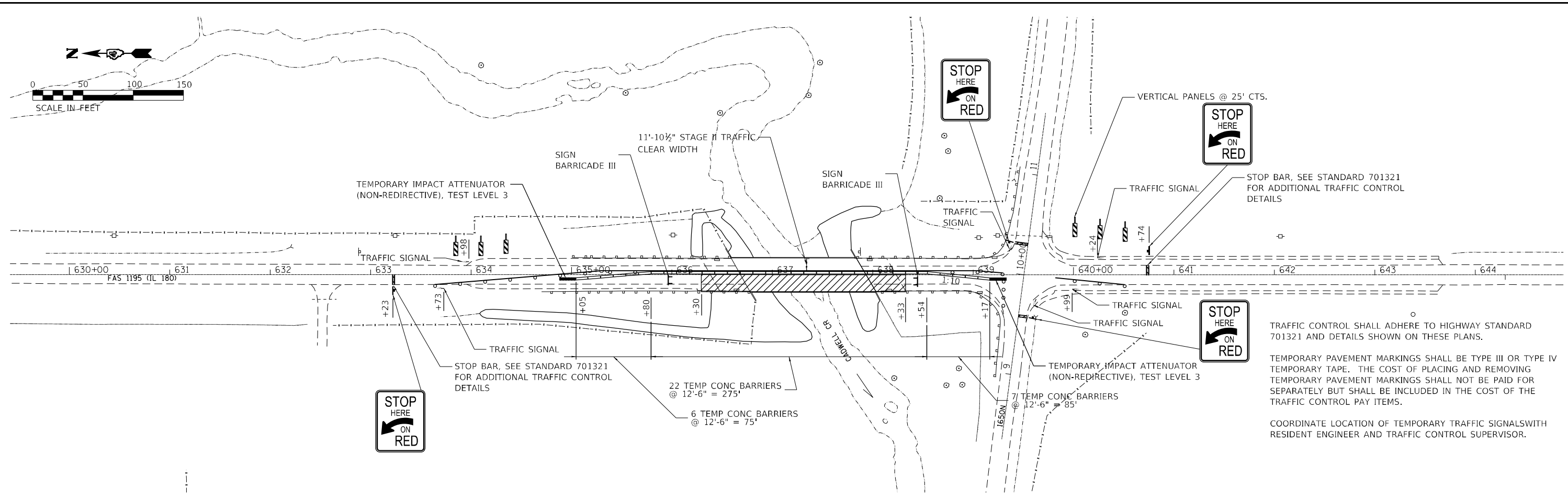
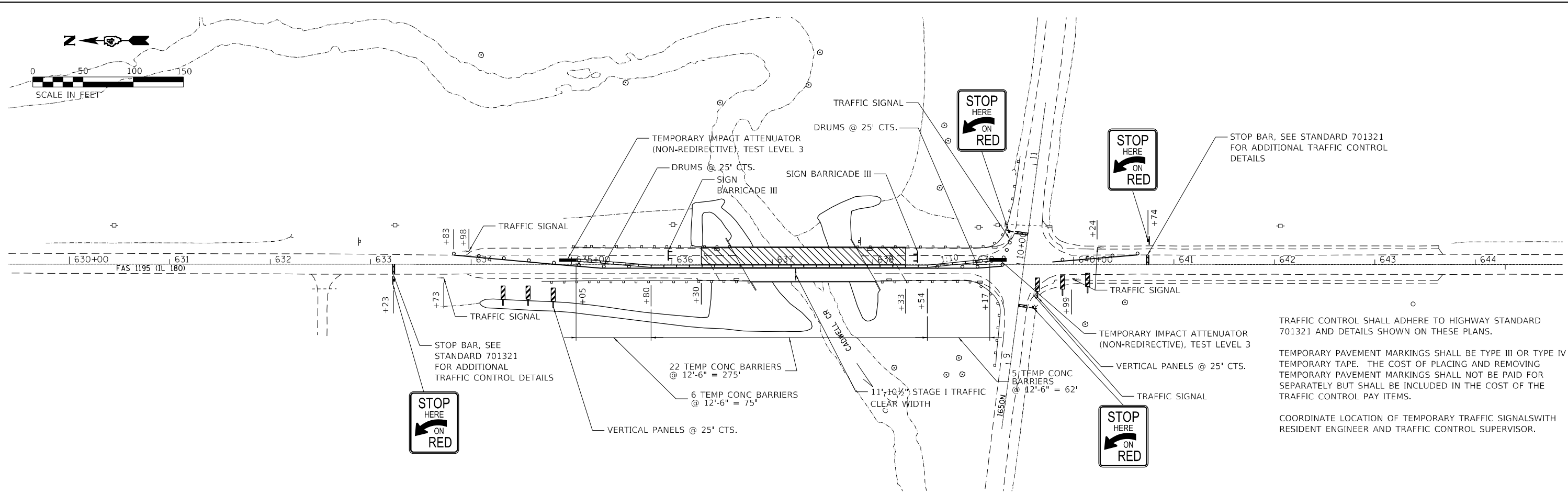
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PLOT DATE = 10/17/2022	DATE - 10/17/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
SN 048-0085**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	1128[BR;BR(1,2,3)BR;BDR	KNOX	47	16
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

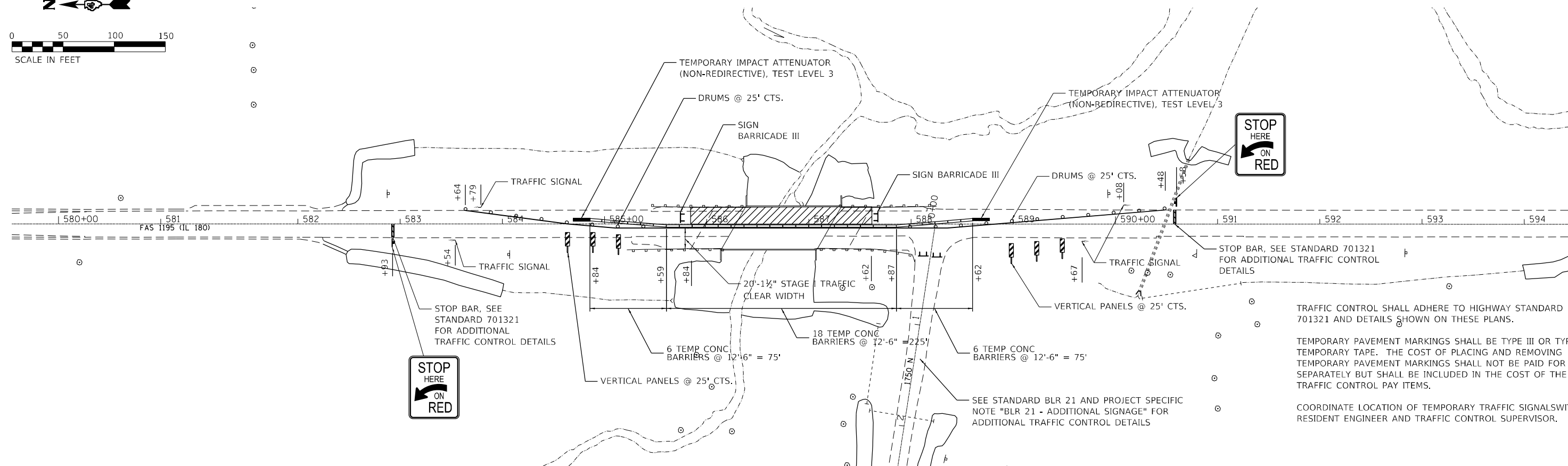
STAGING PLAN
SN 048-0086

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

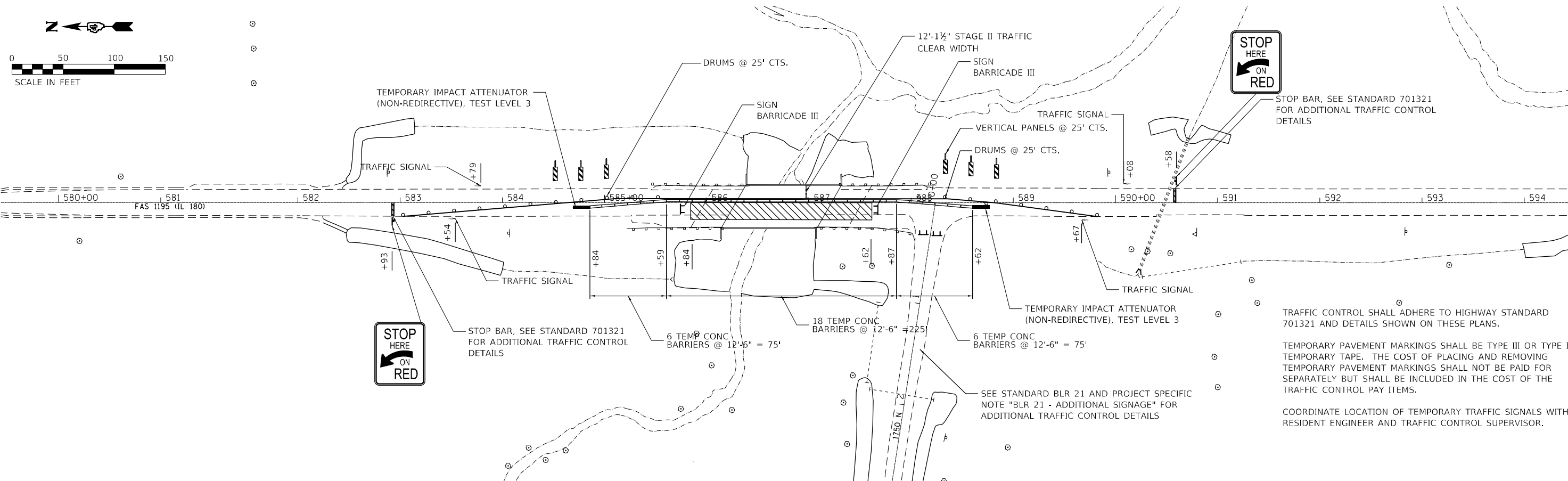
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1195	1128[BR;BR(1,2,3)B]R,BDR	KNOX	47	17
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				



0 50 100 150
SCALE IN FEET



0 50 100 150
SCALE IN FEET



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EFFINGHAM, IL
LICENSE # 184.003222

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PLOT DATE	= 10/17/2022	DATE	- 10/17/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
SN 048-0089**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

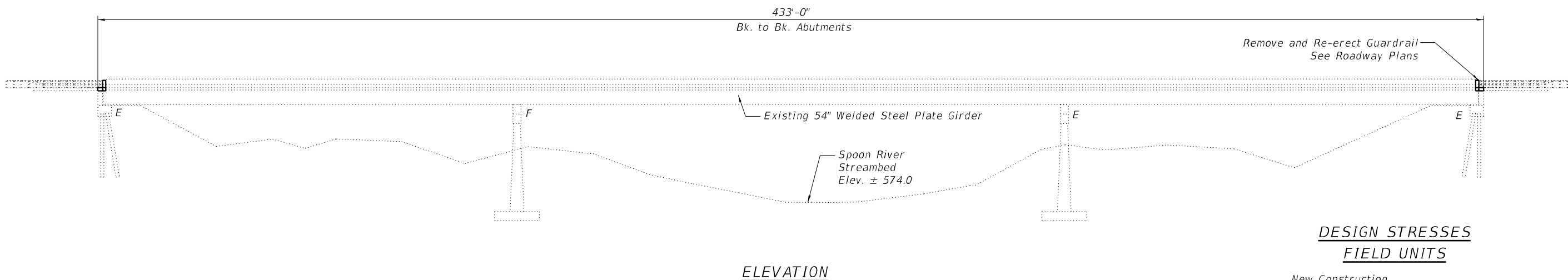
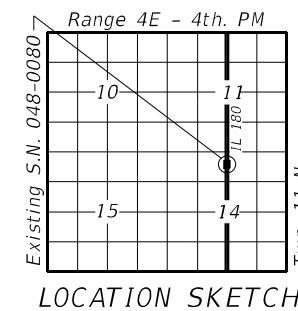
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1195	1128[BR;BR(1,2,3)B]R,BDR	KNOX	47	18
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

Structure 048-0080 was originally constructed in 1990 as SBI 180, Contract 88061, Section (112 B,C)BR at Station 669+40.50 in Knox County. It has not been reconstructed or rehabilitated. It is not known whether it has received minor repairs.

The existing structure is a three span steel continuous multi beam bridge. The superstructure consists of four 54" welded steel plate girders supporting a nominal 7½" thick RC deck. There is no existing overlay on the bridge deck. The existing abutments are pile supported stub abutments. The existing piers are hammerhead piers supported on spread footings founded on rock.

The structure has an overall length of 433'-0" from back to back of abutments. The deck has an out to out width of 33'-2", and a deck (clear area) width of 30'-0" base to base of curb.

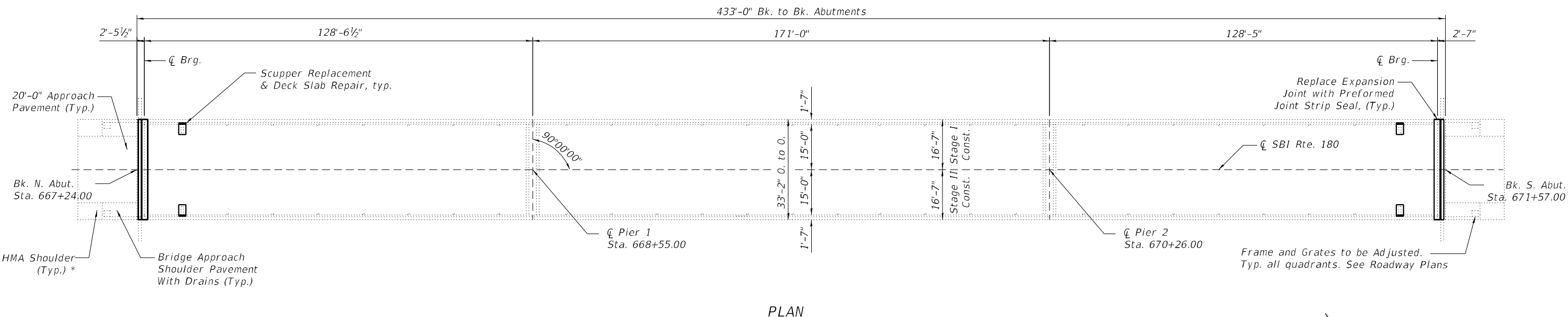
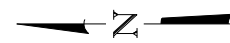
Note:
See Sheet 2 of 13 for Proposed Work, Bill of Material, and General Notes.



**DESIGN STRESSES
FIELD UNITS**

New Construction
f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)

Existing Structure
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M223 Gr. 50 Structural Steel)
fy = 36,000 psi (M183 Structural Steel)



* Replace HMA portion of shoulders with concrete prior to scarification and overlay. Typ. all quadrants. See Roadway Plans.

[Signature]
Date 10-17-2022
TYLER ZIEGLER
Licensed Structural Engineer
State of Illinois No. 081-007505
Expires 11-30-2024



MODEL: GPE
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LICENSE #184.003222

USER NAME =	DESIGNED - KAS	REVISED -
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	CHECKED - KAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
S.N. 048-0080

SHEET 1 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	19
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Grooving	Sq. Yd.	1,474
Protective Coat	Sq. Yd.	1,562
Concrete Removal	Cu. Yd.	9.1
Concrete Superstructure	Cu. Yd.	9.5
Reinforcement Bars, Epoxy Coated	Pound	1,490
Bar Splicers	Each	28
Preformed Joint Strip Seal	Foot	65
Structural Steel Repair	Pound	170
Bridge Deck Scarification 3/4"	Sq. Yd.	1,559
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	1,559
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2.9
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	9.9
Drainage Scuppers, DS-11	Each	4

PROPOSED WORK

1. Perform Bridge Deck Scarification on Bridge Deck and Concrete Approaches.
2. Removal of Deck Ends and Parapet at Deck Ends.
3. Removal of Existing Joints.
4. Perform Beam End Repair.
5. Replace Scuppers at 4 locations.
6. Perform Full-Depth Patching.
7. Pour Deck Ends.
8. Insert Rubber Strip Seal into Locking Edge Rails.
9. Pour Parapets.
10. Place Microsilica Concrete Overlay on Bridge Deck and Concrete Approaches.
11. Perform Deck Grooving.
12. Apply Protective Coat.

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. Such variations 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 for the work.

Reinforcement bars designated (E) shall be epoxy coated.

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

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

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

Expansion joints shall be fabricated and installed according to the manufacturer's recommendations and as approved by the Engineer.

Expansion joints shall be fabricated to conform to the existing cross slopes of the bridge.

Protective Coat shall be applied to new concrete overlay areas from end to end of bridge deck to entire deck surface and top and inside face of new parapet concrete.

Synthetic fibers shall be included in the bridge deck concrete overlay specified. See Special Provisions.

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

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

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Existing and Proposed Typical Cross Sections
4. Stage Construction Details
5. Wearing Surface Plan
6. Patching Details
7. Drainage Scupper Details
8. Drainage Scupper DS-11 Details
9. Concrete Removal Details
10. Deck Reinforcement Details
11. Preformed Joint Strip Seal Details
12. Beam End Repair Details
13. Bar Splicer Assembly and Mechanical Bar Splicer Details

MODEL: General Notes
FILE NAME: X:\5\XXX\54XX-55XX\5436 - PTB 202-026_D4 VV TMMIWO 1\24-Structures\CAD\468G91_048_0080\468G91_shl_General_Data.dgn
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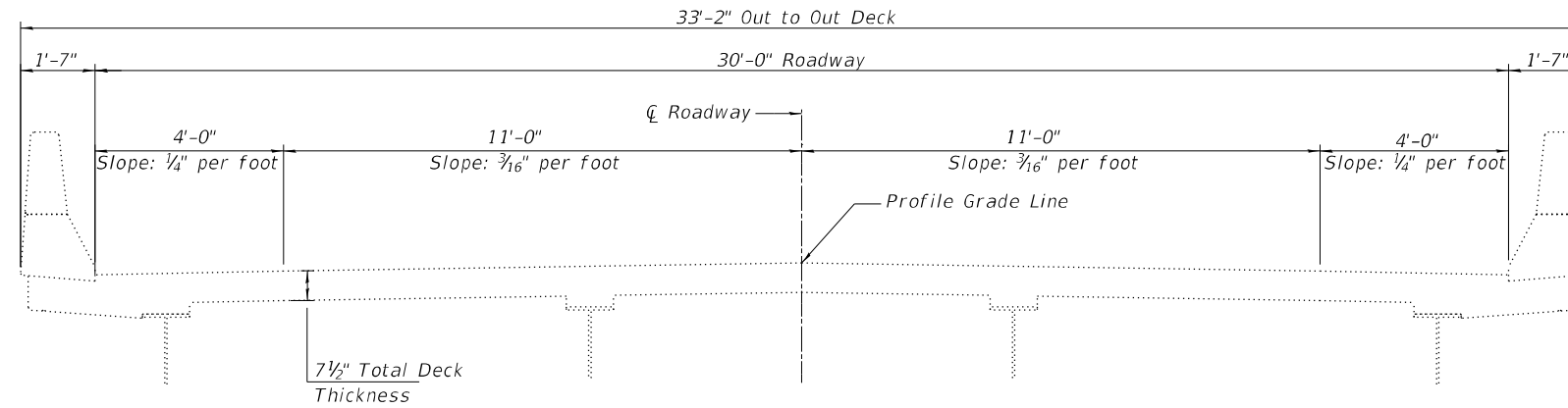
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
S.N. 048-0080**

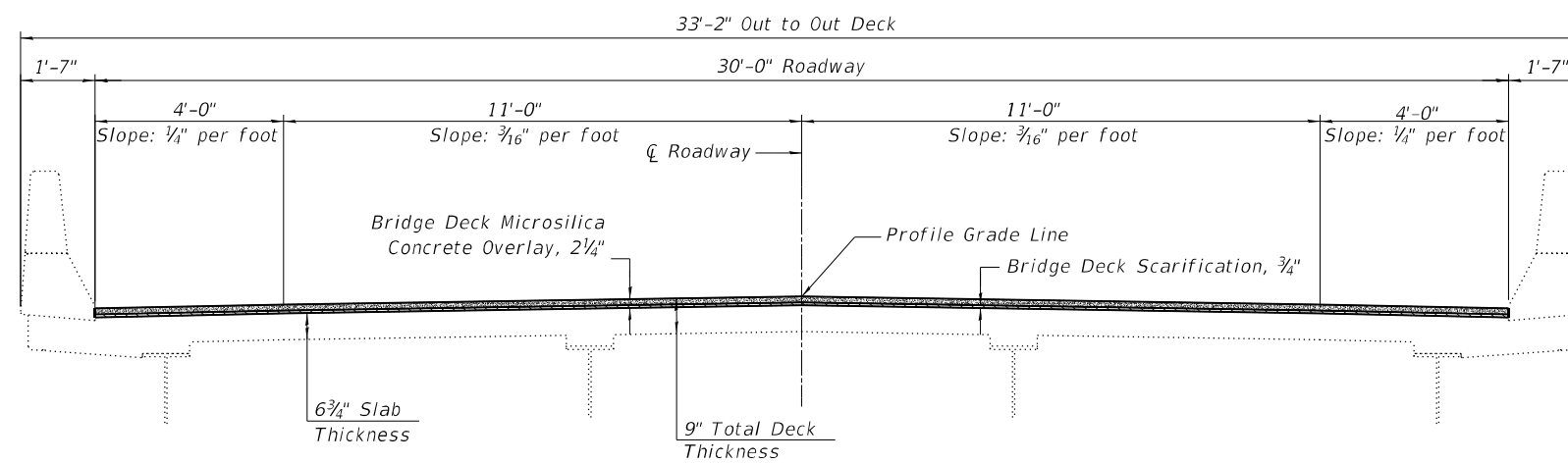
SHEET 2 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	20
CONTRACT NO. 68G91				
ILLINOIS FED.AID PROJECT				

MODEL: Cross Sections
 FILE NAME: P:\5XXX\54XX\5436 - PTB 202426_D4.VV\TMIWO 1\24-Structures\CAD\1468G91_048_0080\1468G91_sht_Existing and Proposed Typical Cross Sections.dgn
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EXISTING CROSS SECTION
 (Looking South)



PROPOSED CROSS SECTION
 (Looking South)



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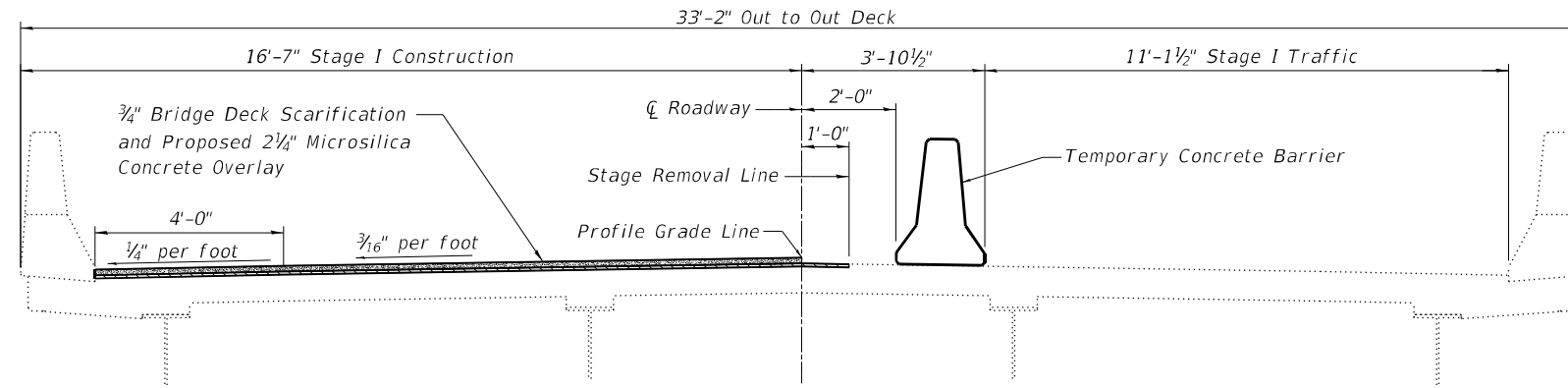
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PLOT DATE =	CHECKED - KAS	REVISED -

STATE OF ILLINOIS
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EXISTING AND PROPOSED TYPICAL CROSS SECTIONS
 S.N. 048-0080

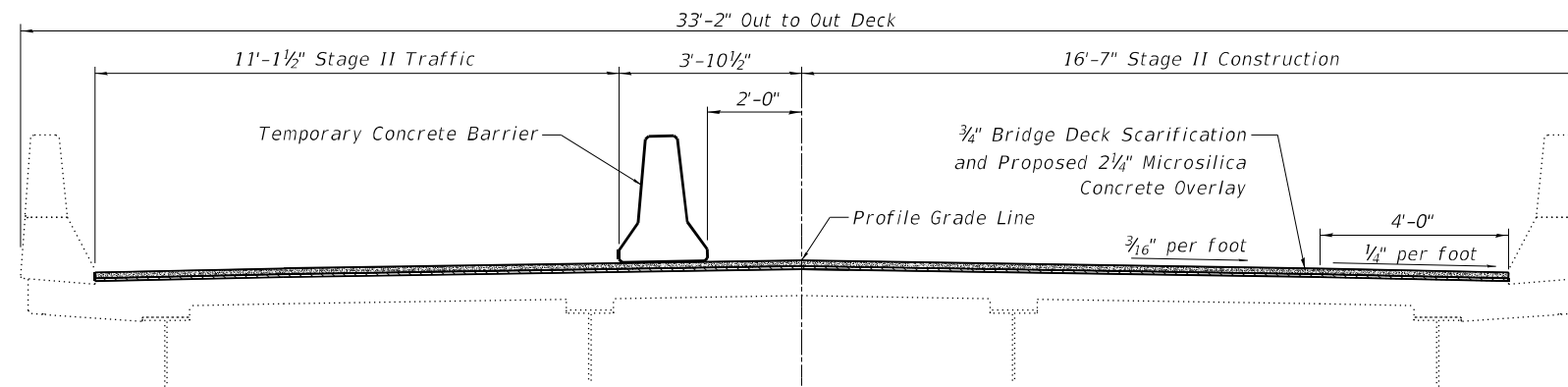
SHEET 3 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	21
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				



STAGE I CONSTRUCTION DETAILS

(Looking South)



STAGE II CONSTRUCTION DETAILS

(Looking South)

MODEL: Stage Const1
 FILE NAME: P:\5XXX\54XX\55XX\5436 - PTB 202426_D4_VV TMMIWO 1\24-Structures\CAD\468G91_048_0080\468G91_sh_Stage_Construction_Details.dgn

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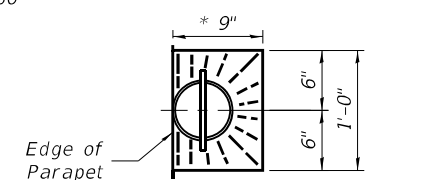
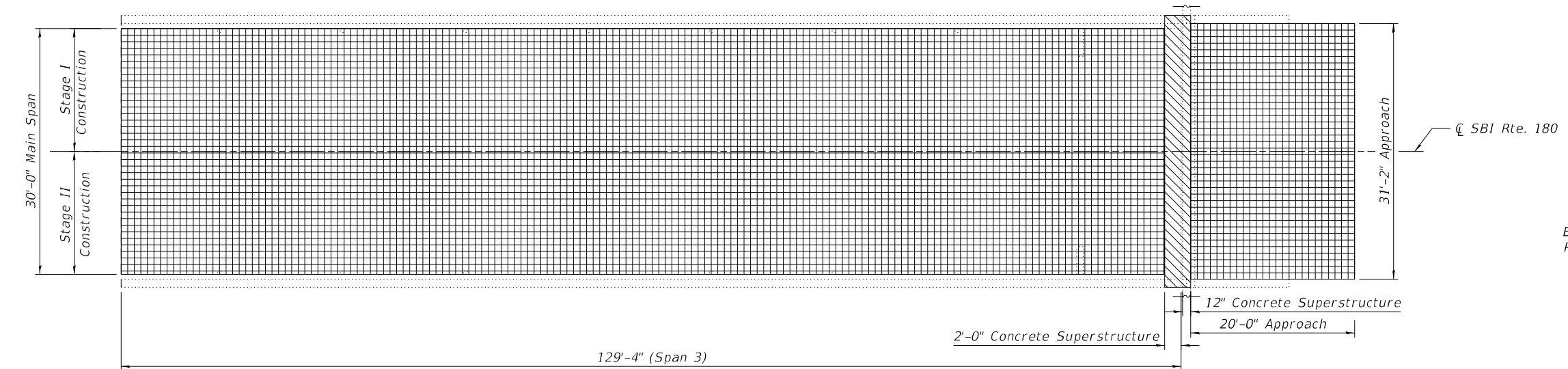
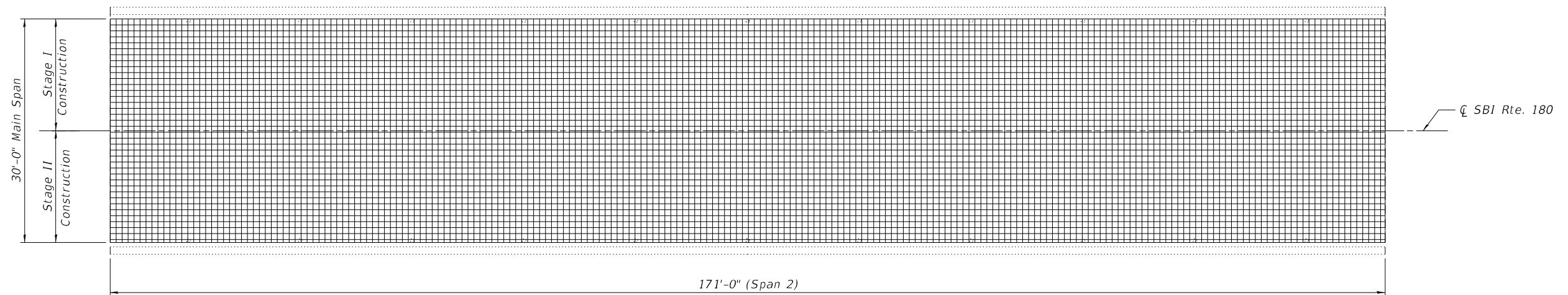
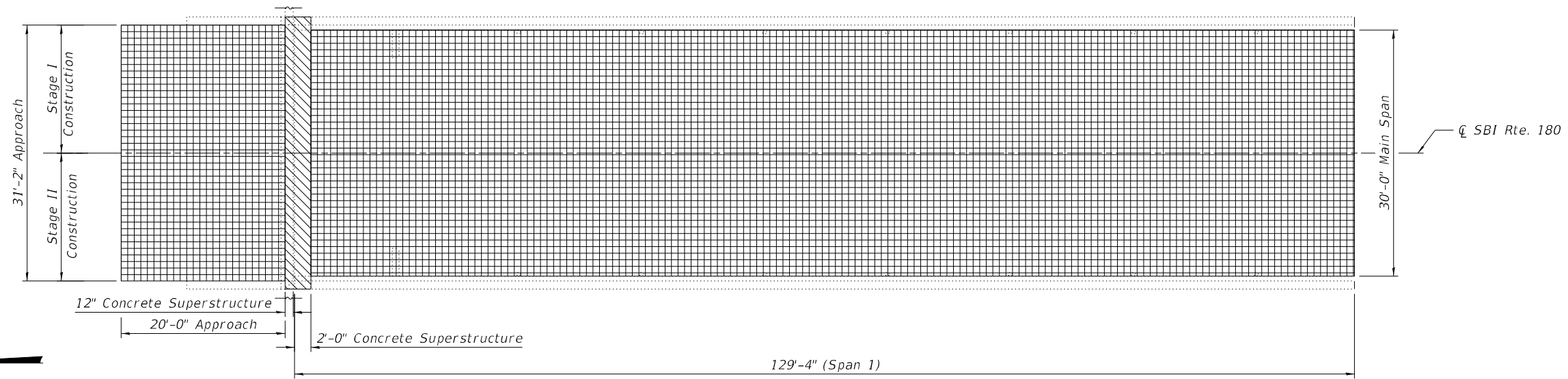
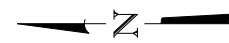
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
 S.N. 048-0080**

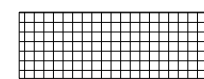
SHEET 4 OF 13 SHEETS

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CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

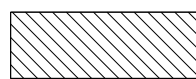
MODEL: Wearing Surface
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FLOOR DRAIN TOP PLAN
 * Slope Overlay 1" to Drain



Bridge Deck Scarification, $\frac{3}{4}$ "
 Bridge Deck Microsilica Concrete Overlay, $2\frac{1}{4}$ "
 and Bridge Deck Grooving



Bridge Deck Grooving

BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Microsilica Concrete Overlay, $2\frac{1}{4}$ "	Sq. Yd.	1,559
Bridge Deck Scarification, $\frac{3}{4}$ "	Sq. Yd.	1,559
Bridge Deck Grooving	Sq. Yd.	1,474



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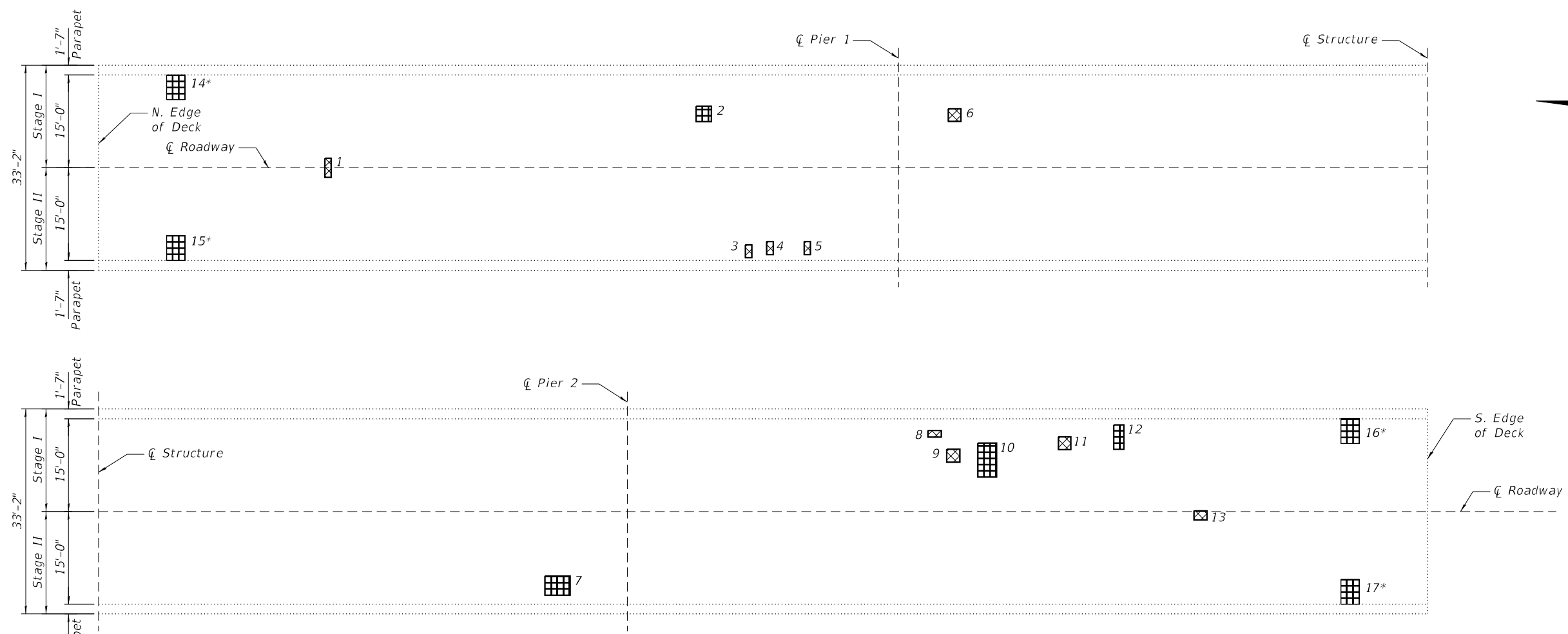
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEARING SURFACE PLAN
S.N. 048-0080

SHEET 5 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	23
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

MODEL: Patching Details
 FILE NAME: P:\5\XXX\54XX-55XX\5436 - PTB 202-026_D4_VV TWM\WO 1\24-Structures\CAD\468G91_048_0080\468G91_sht_Patching Details.dgn



PLAN

PATCH NO.	SIZE	Deck Slab Repair (Full Depth Type I)	Deck Slab Repair (Full Depth Type II)
		Sq. Ft.	Sq. Ft.
1	1'-0" x 3'-0"	3.0	
2	2'-6" x 2'-6"		6.25
3	1'-0" x 2'-0"	2.0	
4	1'-0" x 2'-0"	2.0	
5	1'-0" x 2'-0"	2.0	
6	2'-0" x 2'-0"	4.0	
7	4'-0" x 3'-0"		12.0
8	2'-0" x 1'-0"	2.0	
9	2'-0" x 2'-0"	4.0	
10	3'-0" x 5'-6"		16.5
11	2'-0" x 2'-0"	4.0	
12	1'-6" x 4'-0"		6.0
13	2'-0" x 1'-6"	3.0	
14	3'-0" x 4'-0"		12.0
15	3'-0" x 4'-0"		12.0
16	3'-0" x 4'-0"		12.0
17	3'-0" x 4'-0"		12.0

NOTES:
 Patch sizes shown represent conditions at the time the plans were completed.
 The actual sizes and locations of patching shall be determined by the Engineer.
 The Engineer shall show the actual locations of the deck repairs on this sheet.
 * The existing scuppers at these locations will be removed and replaced.
 See Sheet No. 7 of 13. The existing 50 floor drains shall remain in place.

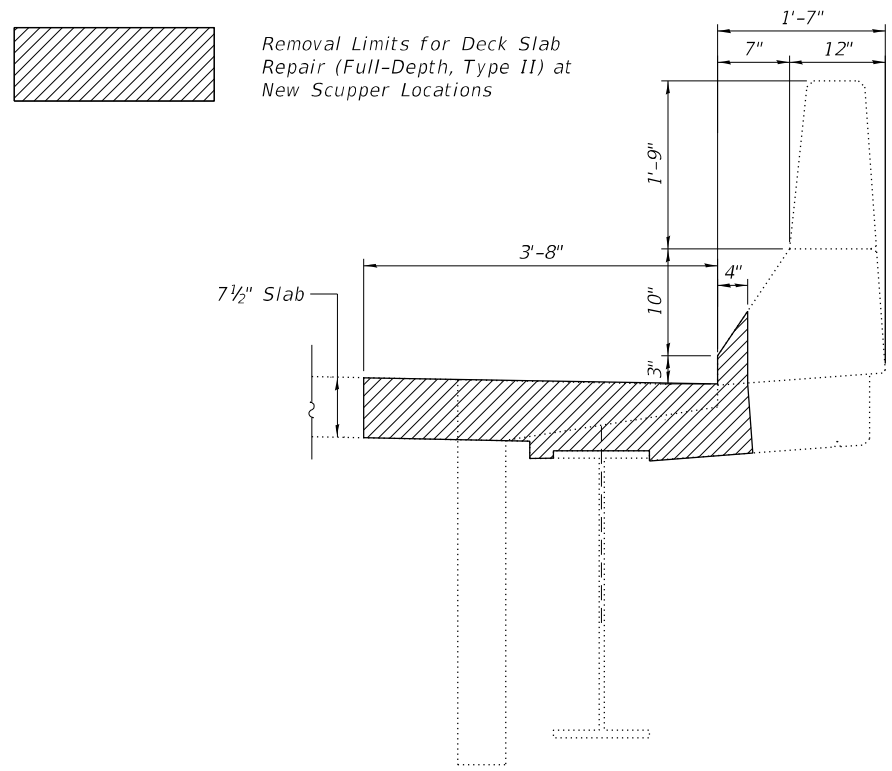
LEGEND

	Deck Slab Repair (Full Depth, Type I)
	Deck Slab Repair (Full Depth, Type II)

BILL OF MATERIAL

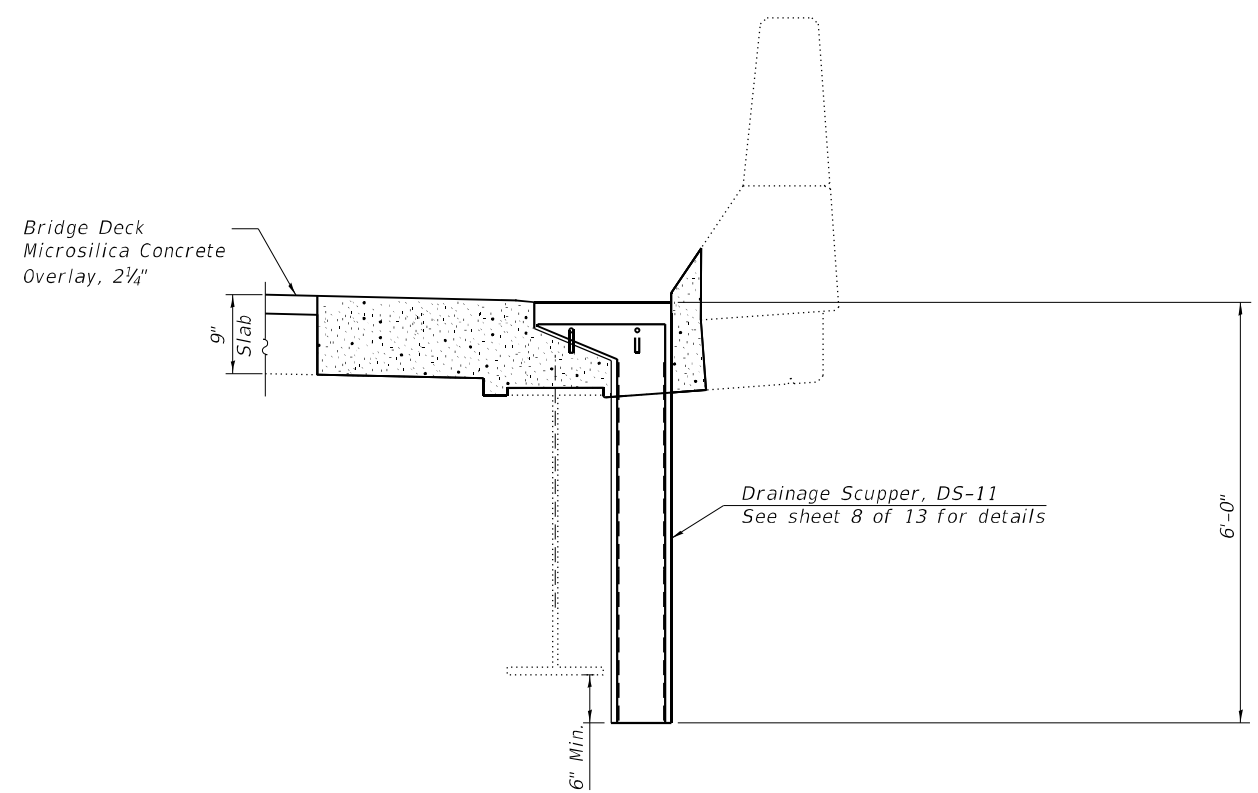
Item	Unit	Total
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2.9
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	9.9

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						SHEET 6 OF 13 SHEETS	ILLINOIS FED. AID PROJECT



Removal Limits for Deck Slab Repair (Full-Depth, Type II) at New Scupper Locations

TYPICAL REMOVAL LIMITS



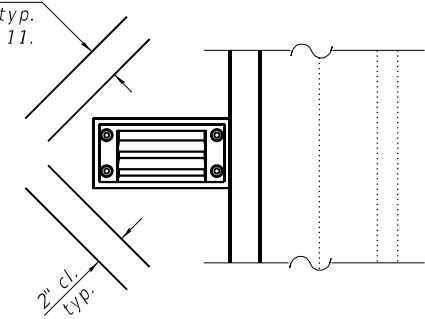
Bridge Deck Microsilica Concrete Overlay, 2 1/4"

Drainage Scupper, DS-11
See sheet 8 of 13 for details

SECTION AT PROPOSED DRAINAGE SCUPPER

Notes:
 All dimensions shall be field verified by the Contractor prior to ordering of materials.
 Fiberglass shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 psi minimum.
 The exterior surfaces of the scupper shall be painted according to Article 506 with the finish coat to match the outside of the fascia beams.
 The exterior surfaces of the scuppers shall be cleaned according to the Society of Protective Coating Spec. SSPC-SPI prior to painting.
 Cost of removal of existing scuppers is included in Deck Slab Repair (Full Depth, Type II).

2-#5 a(E) bars at 4" cts. (1'-6" long)
 tied to bottom of top reinforcement mat. typ.
 Cost included with Drainage Scupper, DS 11.



PARTIAL PLAN

MODEL: Floor Drain
 FILE NAME: X:\5XXX\54XX-55XX\5436 - PTB 202-026_D4 VV TMMIWO 1\24-Structures\CAD\468G91_048_0080\468G91_shl_Drainage_Scupper_Details.dgn
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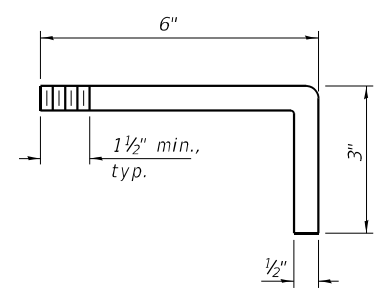
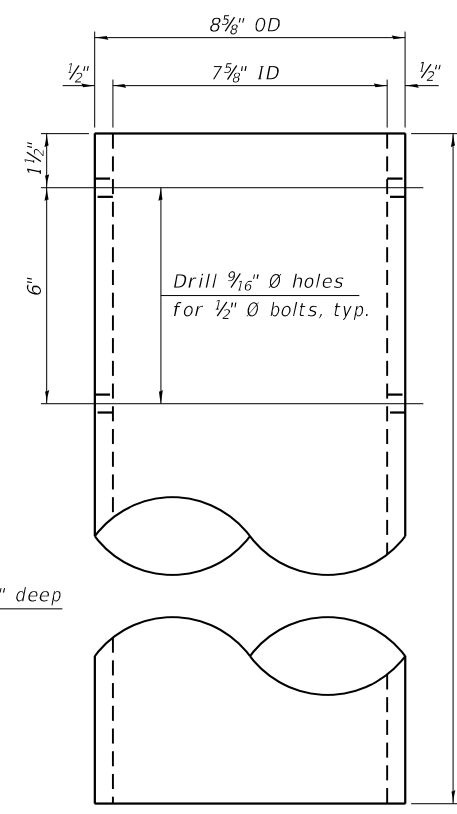
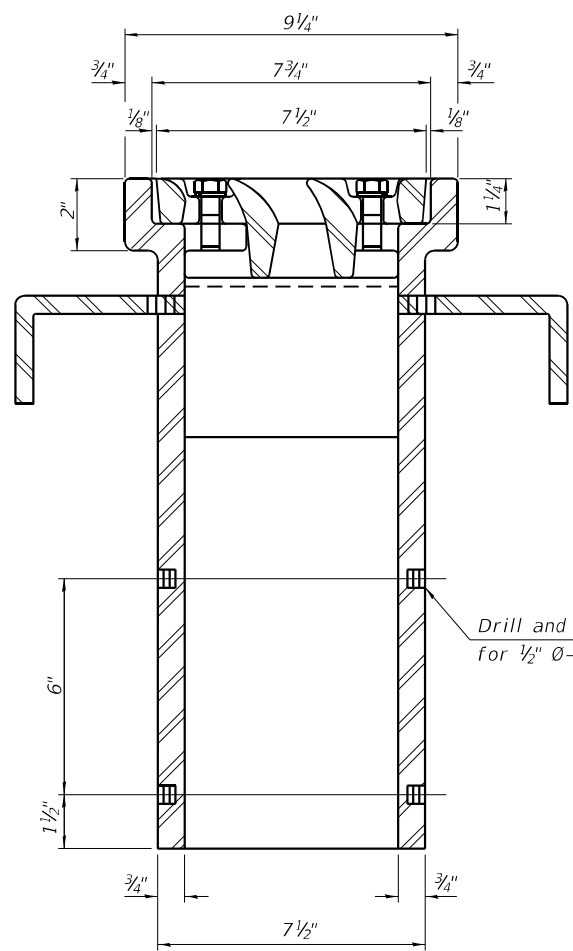
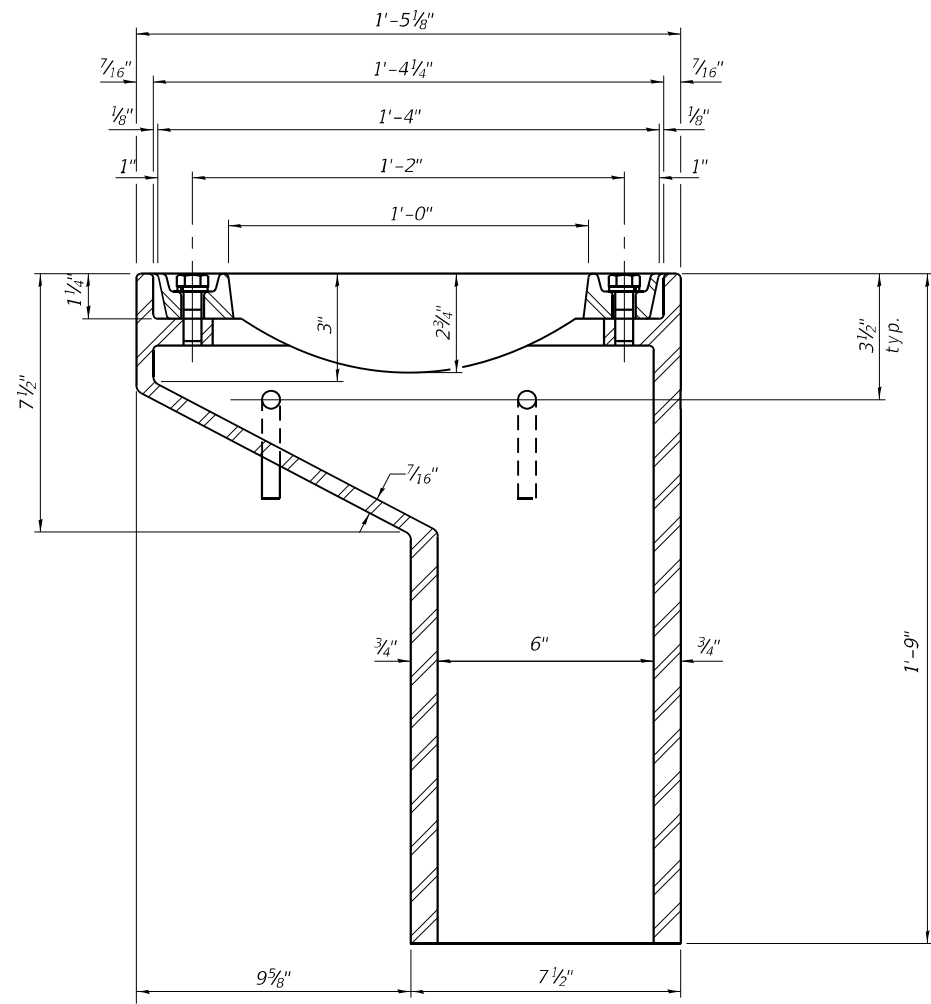
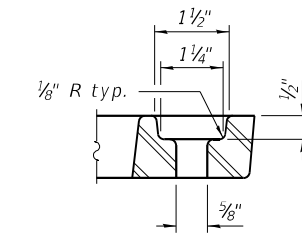
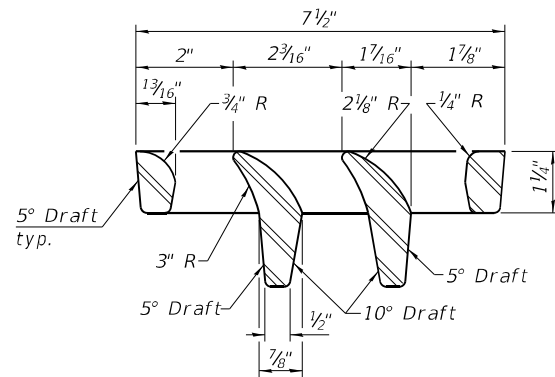
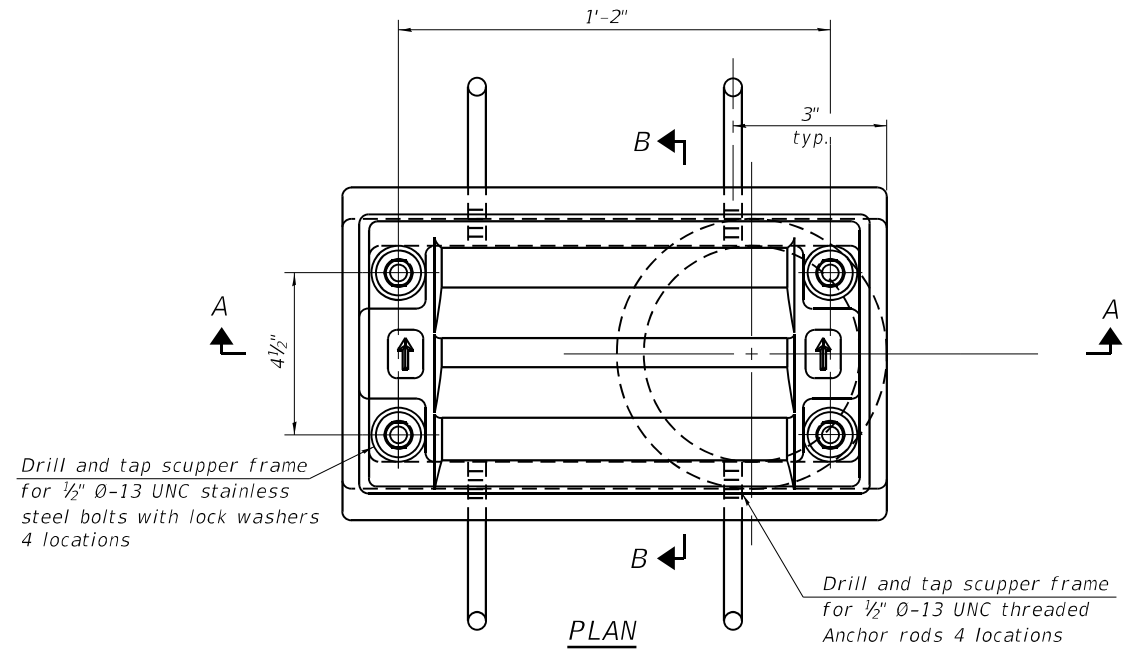
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PLOT DATE =	CHECKED - KAS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER DETAILS
 S.N. 048-0080

SHEET 7 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	25
			CONTRACT NO. 68G91	
		ILLINOIS FED. AID PROJECT		



See sheet 7 of 13 for scupper location relative to parapet.

Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be treated as specified on sheet 7 of 13.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scupper, DS-11.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

MODEL: Drainage Scupper DS-11 Detail
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DS-11

1-1-2020



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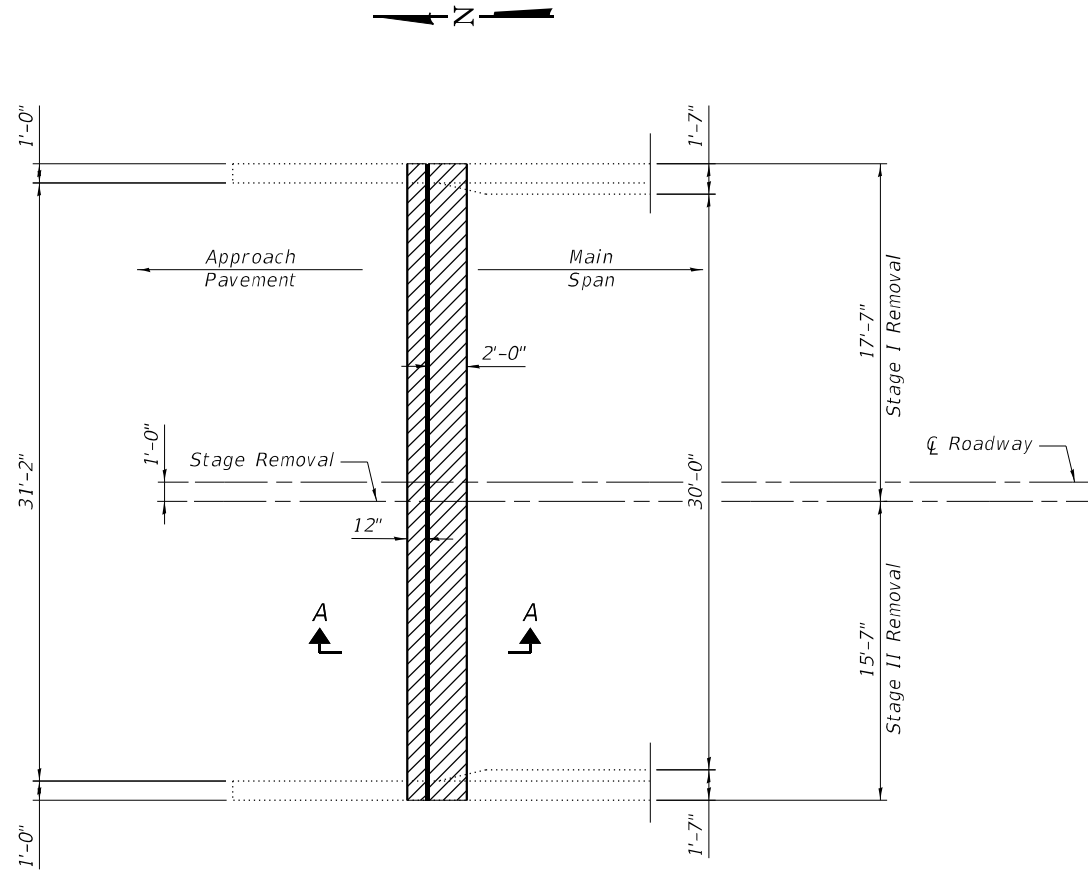
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11
 S.N. 048-0080

SHEET 8 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	26
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

MODEL: Concrete Removal Details
 FILE NAME: P:\5\XXX\54XX-55XX\5436 - PTB 202-426_d4_vv TWM\IWO 1\24-Structures\CAD\468G91_04E_0080\468G91_sht_Superstructure Plan - Concrete Removal Details.dgn



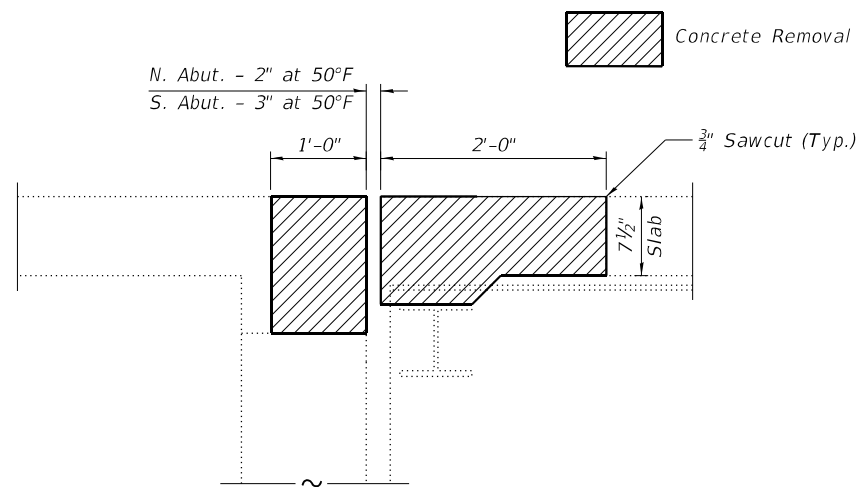
ABUTMENT PLAN

Note: North Abutment shown, South Abutment similar

NOTES:

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

The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.



SECTION A-A

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	9.1



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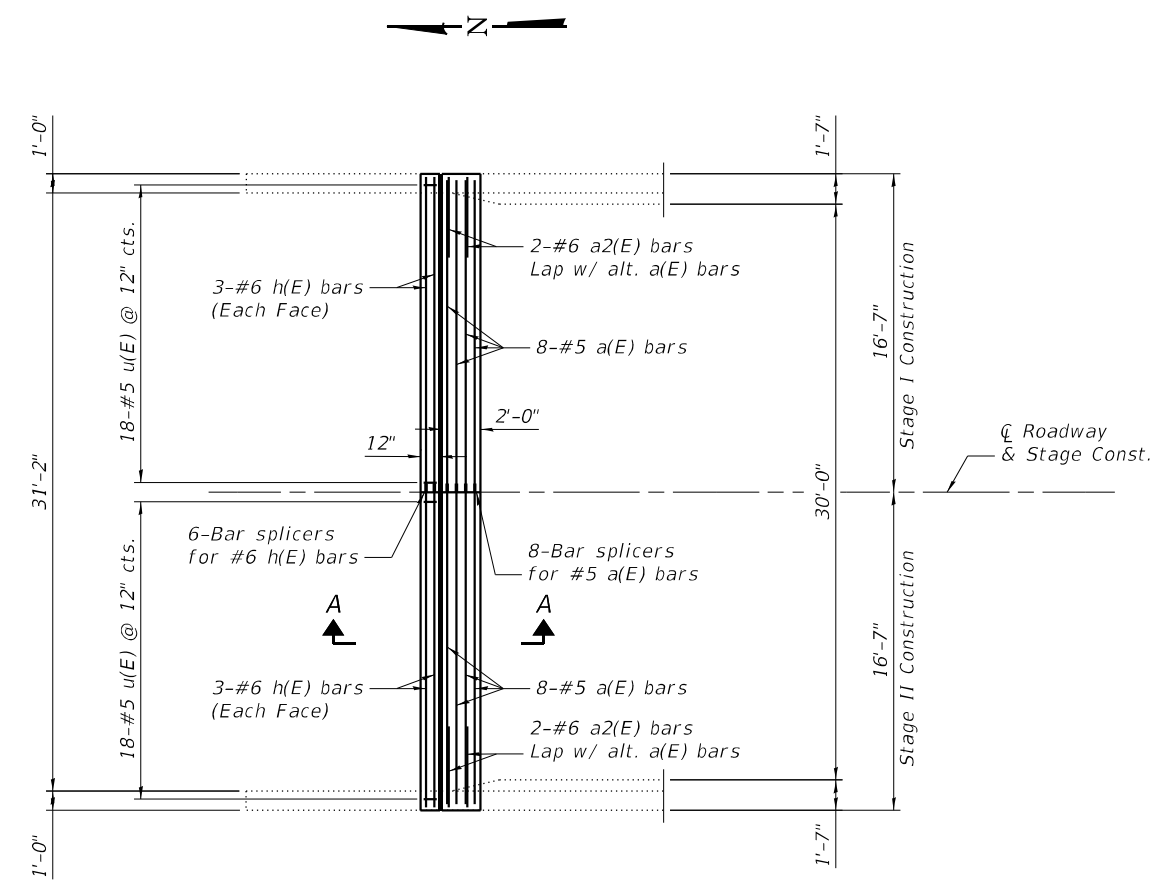
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 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN - CONCRETE REMOVAL DETAILS
 S.N. 048-0080

SHEET 9 OF 13 SHEETS

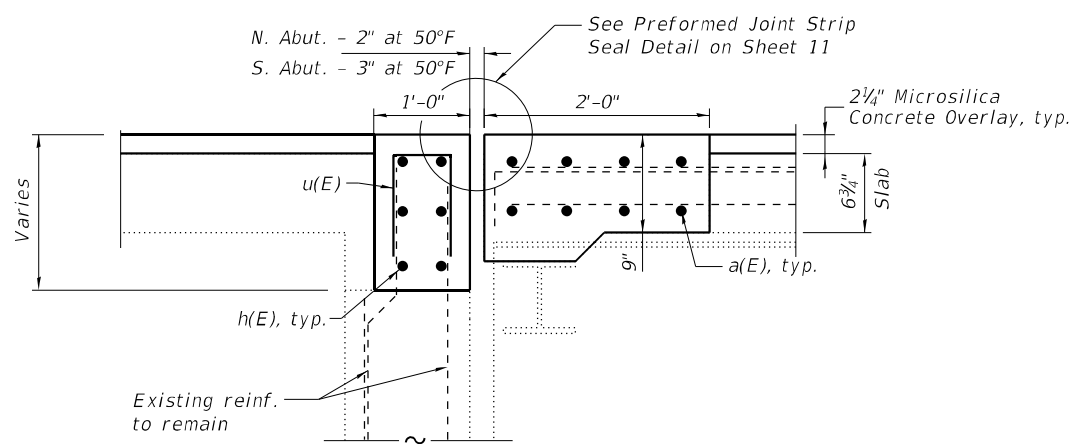
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CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

MODEL: Deck Reinforcement
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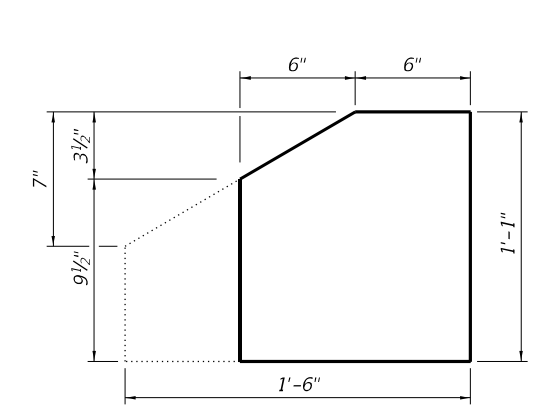


ABUTMENT PLAN

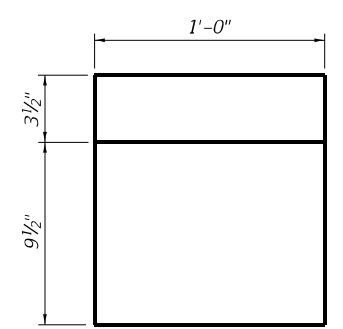
Note: North Abutment shown, South Abutment similar



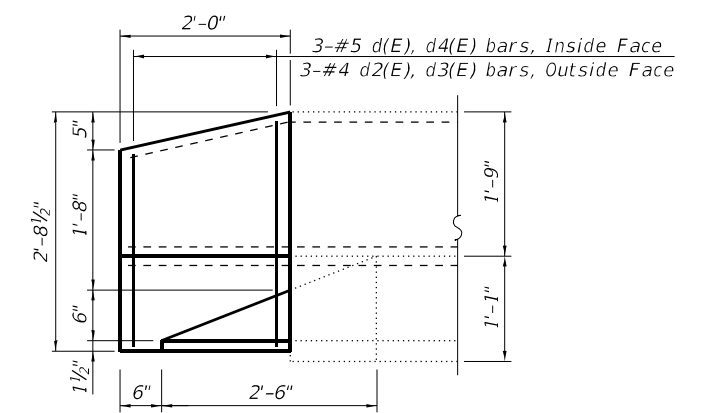
SECTION A-A



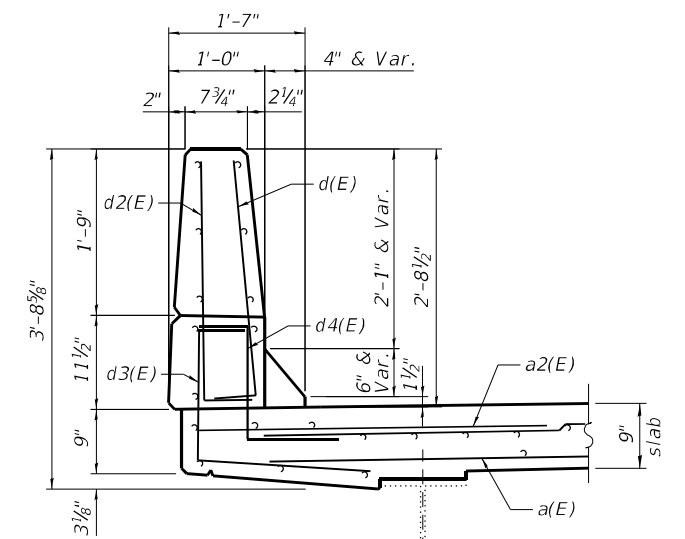
CURB ELEVATION



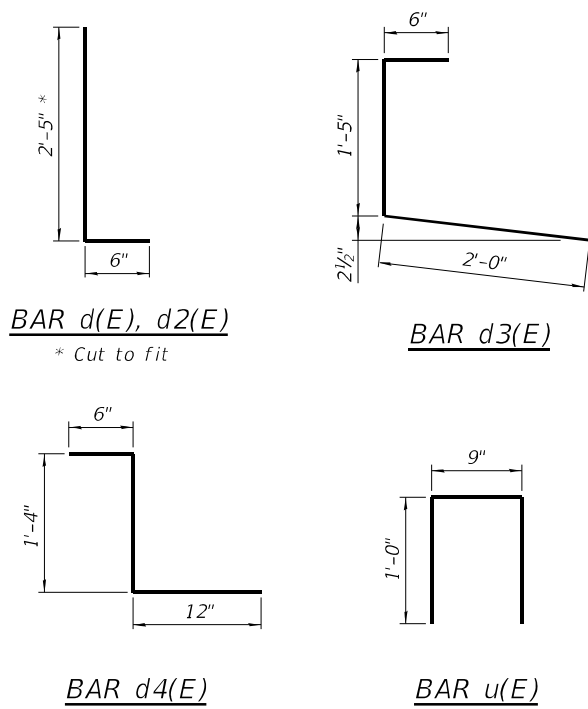
SECTION THRU CURB



PARAPET ELEVATION



SECTION THRU PARAPET



**BILL OF MATERIAL
TWO ABUTMENTS**

Bar	No.	Size	Length	Shape
a(E)	32	#5	15'-6"	—
a2(E)	8	#6	4'-0"	—
d(E)	12	#5	2'-11"	┌┐
d2(E)	12	#4	2'-11"	┌┐
d3(E)	12	#4	3'-11"	┌┐
d4(E)	12	#5	2'-10"	┌┐
h(E)	24	#6	16'-4"	—
u(E)	72	#5	2'-9"	┌┐
Reinforcement Bars, Epoxy Coated		Pound	1,490	
Concrete Superstructure		Cu. Yd.	9.5	
Bar Splicers		Each	28	



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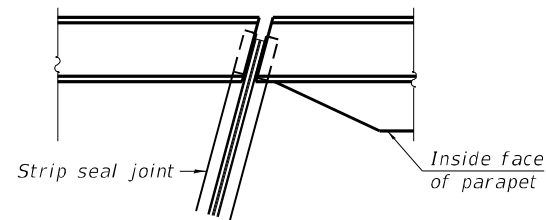
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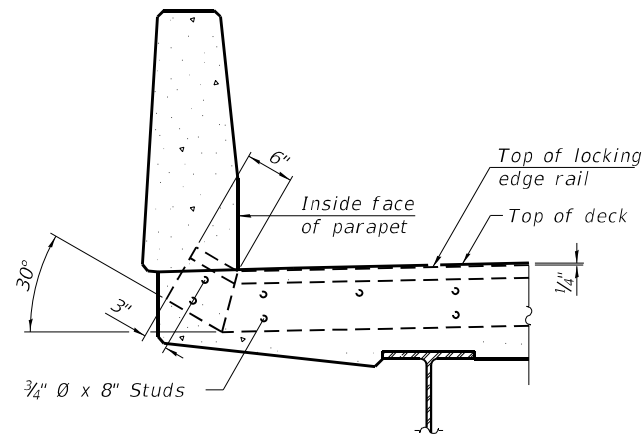
SUPERSTRUCTURE PLAN - DECK REINFORCEMENT DETAILS
S.N. 048-0080

SHEET 10 OF 13 SHEETS

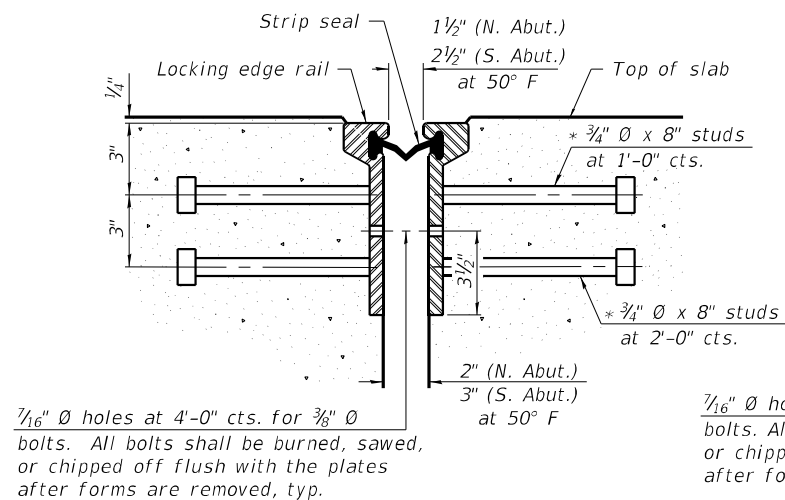
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ILLINOIS FED. AID PROJECT				



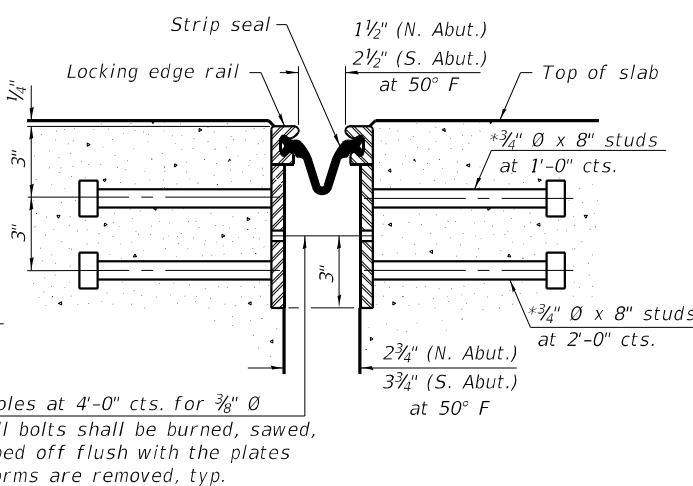
PLAN
(For skews ≤ 30°)



SECTION AT PARAPET

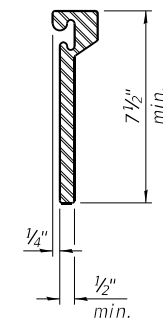


SECTION THRU ROLLED RAIL JOINT

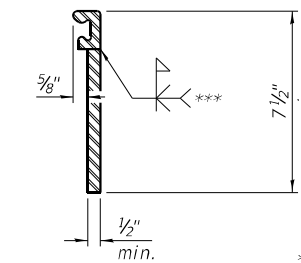


SECTION THRU WELDED RAIL JOINT

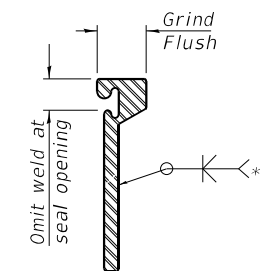
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED EXTRUDED RAIL



WELDED RAIL



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

LOCKING EDGE RAIL SPLICE

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

LOCKING EDGE RAILS

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed.
The manufacturer's recommended installation methods shall be followed.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
The maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
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.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	65

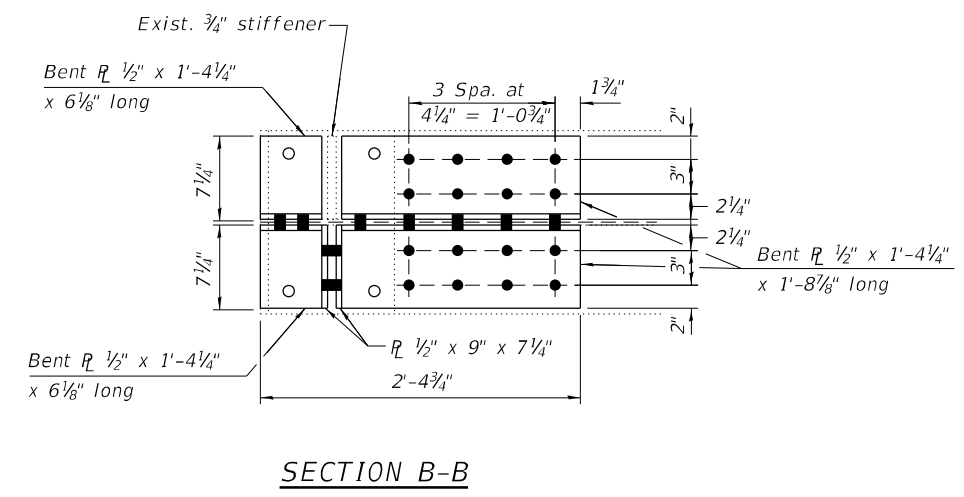
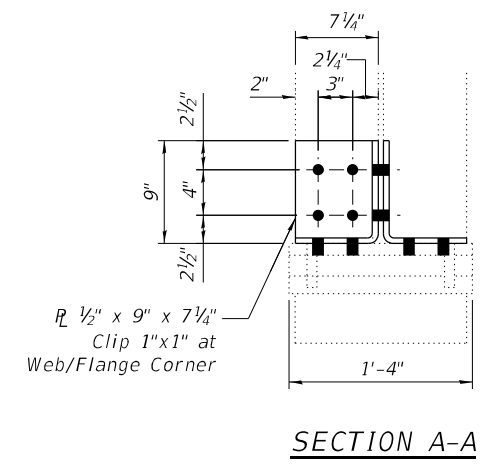
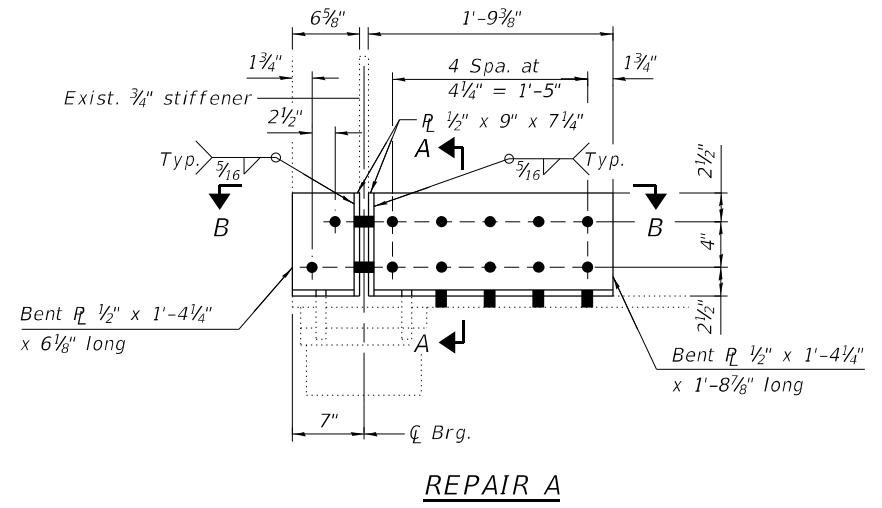
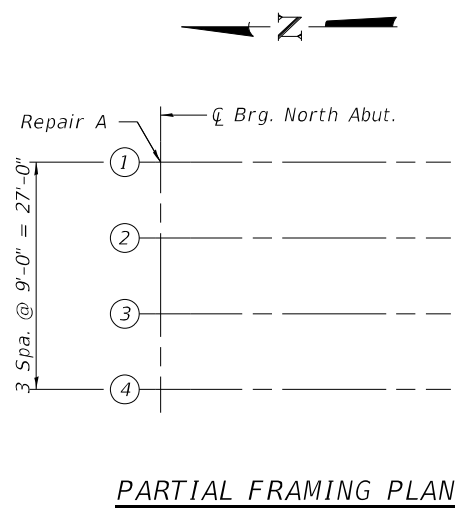
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PLOT DATE =	CHECKED - KAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL DETAILS
S.N. 048-0080**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	29
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				



Notes:
Fasteners shall be high strength bolts. Bolts 7/8" Ø, open holes 1 1/16" Ø unless otherwise noted.

Cost of all repairs on this sheet are included with Structural Steel Repairs.

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

BOLT HOLE LEGEND

- - Field drill using existing steel as template.
- - Field drill using new steel as template.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	170

MODEL: Beam End Repairs
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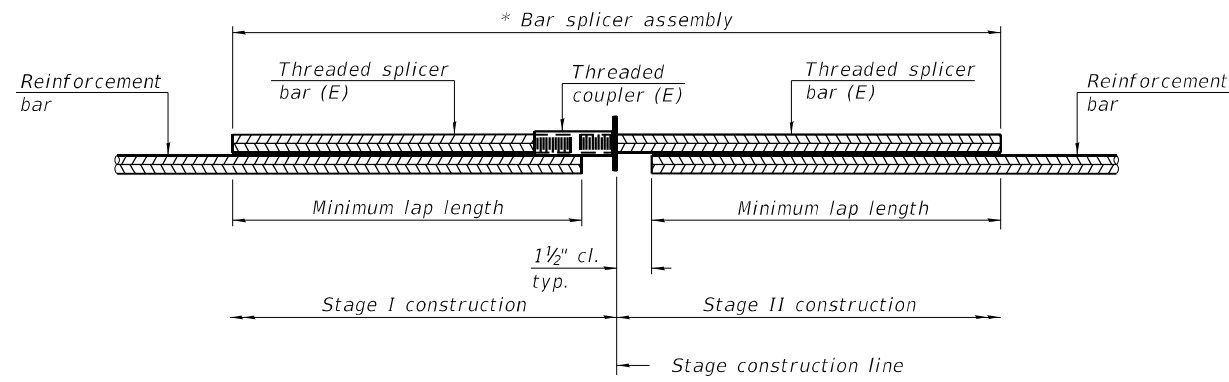
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTHEAST BEAM END REPAIR
S.N. 048-0080**

SHEET 12 OF 13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	30
CONTRACT NO. 68G91				
ILLINOIS		FED. AID PROJECT		

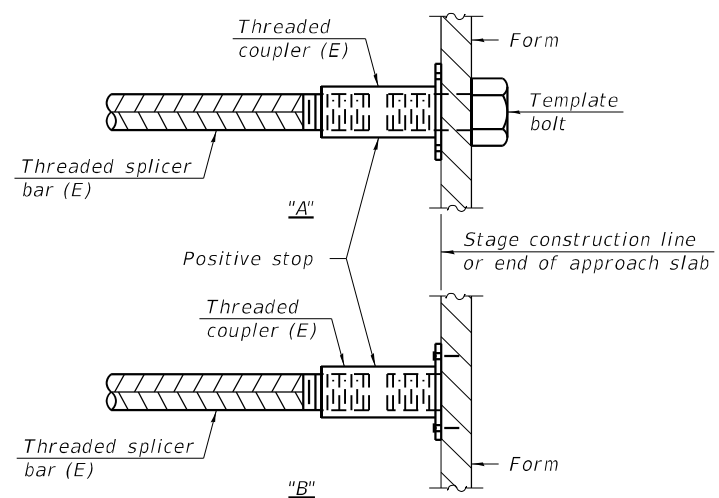


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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

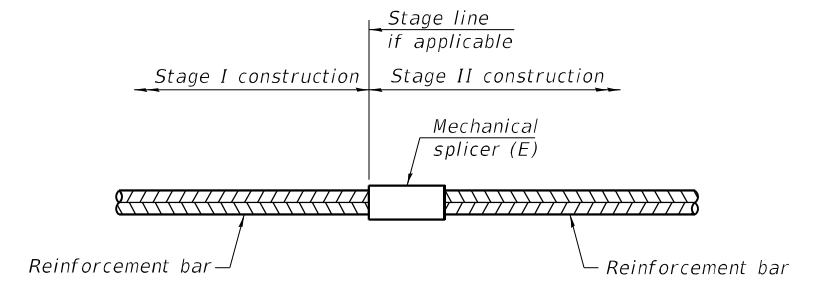
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck End	#5	16	3'-6"
Deck End	#6	12	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: BSD
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BSD-1

1-1-2020



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 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 S.N. 048-0080

SHEET 13 OF 13 SHEETS

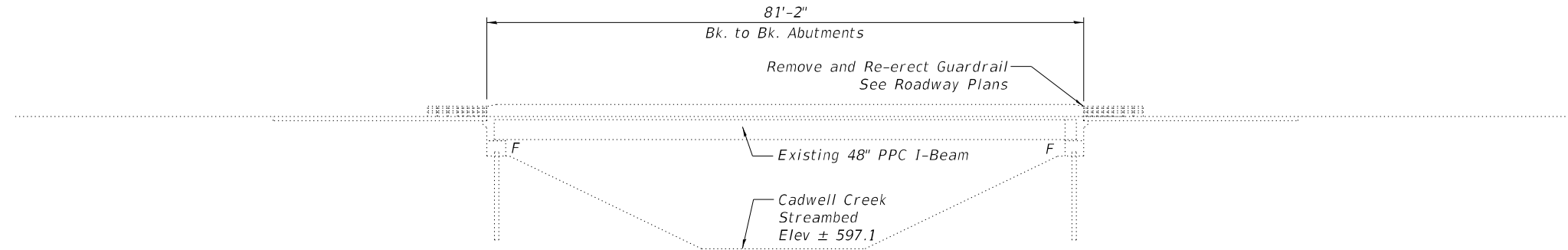
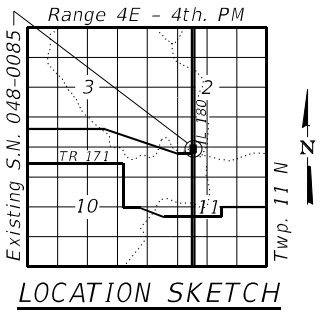
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1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	31
			CONTRACT NO. 68G91	
		ILLINOIS FED. AID PROJECT		

Structure 048-0085 was originally constructed in 2000 as FAS 1195, Contract 88615, Section (112B)BR-2 at Station 610+35 in Knox County. It has not been reconstructed or rehabilitated. It is not known whether it has received minor repairs.

The existing structure is a single span PPC I-beam bridge. The superstructure consists of five 48" I-beams supporting a nominal 7 $\frac{3}{8}$ " thick RC deck. There is no existing overlay on the bridge deck. The existing abutments are integral abutments.

The structure has an overall length of 81'-2" from back to back of abutments. The deck has an out to out width of 34'-9 $\frac{3}{8}$ ", and a deck (clear area) width of 31'-6" base to base of curb.

Note:
See Sheet 2 of 6 for Proposed Work, Bill of Material, and General Notes.

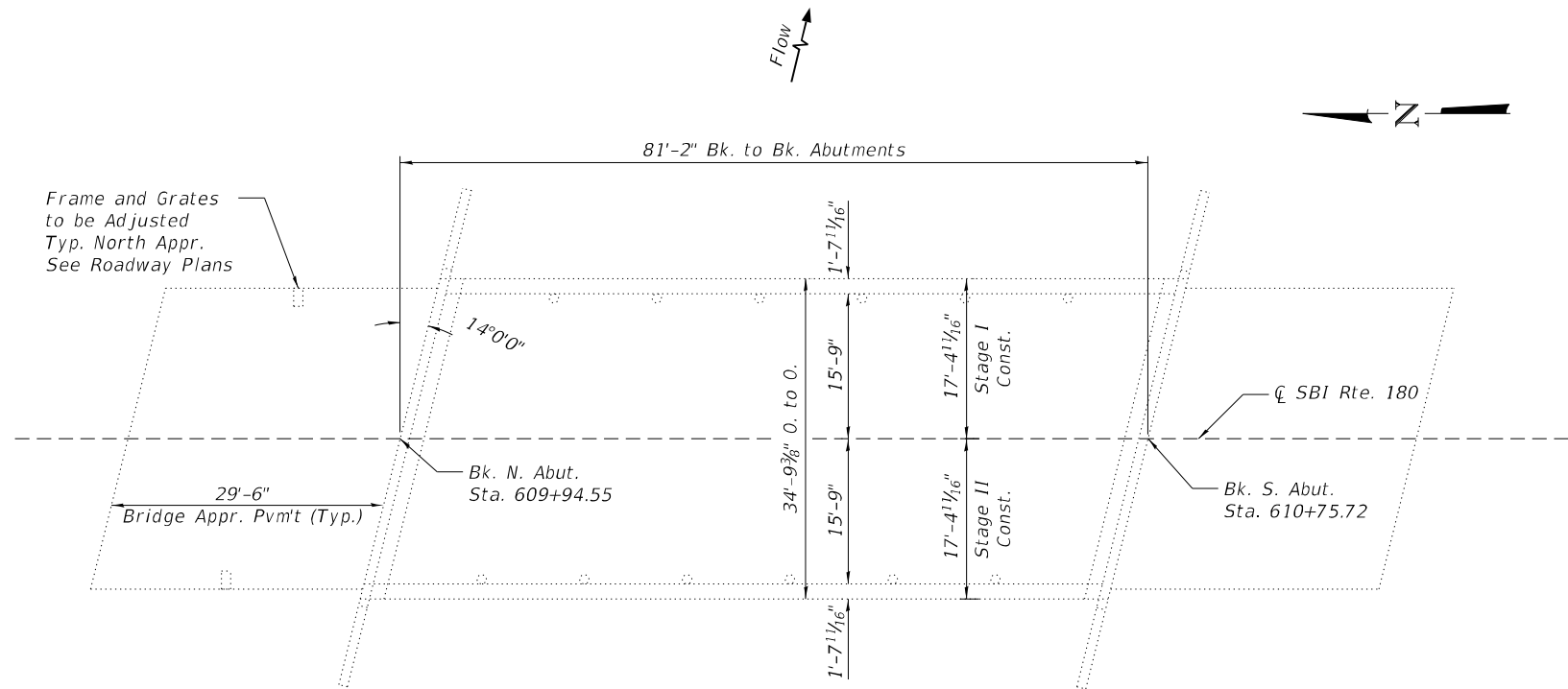


ELEVATION

DESIGN STRESSES
FIELD UNITS

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

Existing Structure
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f'_c = 6,000$ psi (Prestressed Units)
 $f'_s = 270,000$ psi (Strands)



PLAN

Tyler J. Ziegler
TYLER J. ZIEGLER
 Licensed Structural Engineer
 State of Illinois No. 081-007505
 Expires 11-30-2024
 10-17-2022
 Date



MODEL: GPE
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GENERAL PLAN AND ELEVATION
S.N. 048-0085

SHEET 1 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	32
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

Item	Unit	Total
Stone Dumped Riprap, Class A4	Sq. Yd.	127
Bridge Deck Grooving	Sq. Yd.	467
Protective Coat	Sq. Yd.	498
Bridge Deck Scarification 3/4"	Sq. Yd.	498
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	498

PROPOSED WORK

1. Perform Bridge Deck Scarification on Bridge Deck and Concrete Approaches.
2. Place Microsilica Concrete Overlay on Bridge Deck and Concrete Approaches.
3. Perform Deck Grooving.
4. Perform Bridge Relief Joint Sealer work.
5. Apply Protective Coat.
6. Place Stone Riprap at Abutments.

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. Such variations 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 for the work.

Protective Coat shall be applied to new concrete overlay areas only.

Synthetic fibers shall be included in the bridge deck concrete overlay specified. See Special Provisions.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Existing and Proposed Typical Cross Sections
4. Stage Construction Details
5. Wearing Surface Plan
6. Riprap Placement at Abutments

MODEL: General Notes
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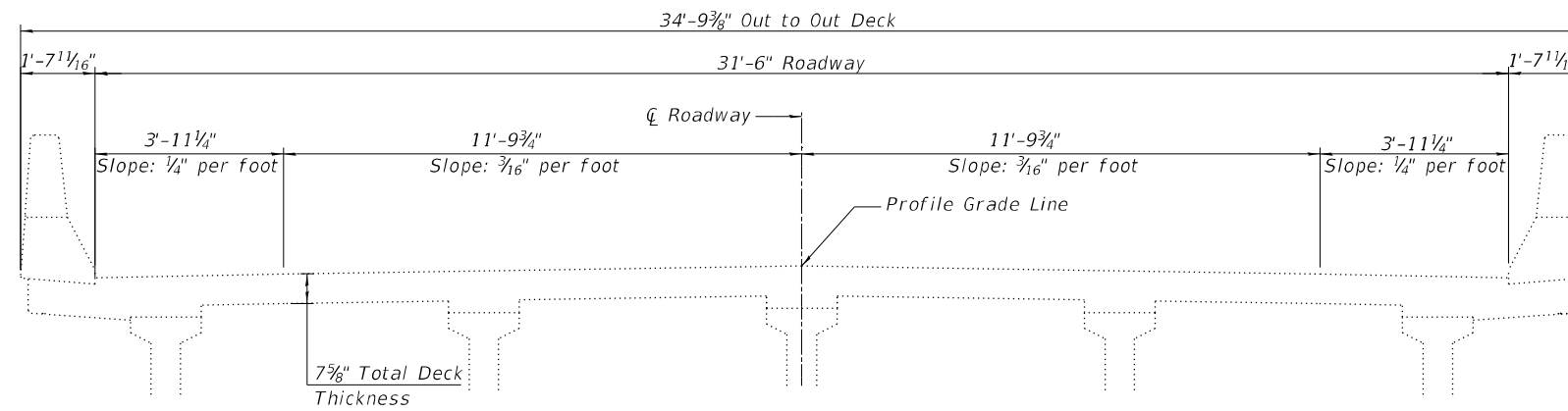
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 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
 S.N. 048-0085**

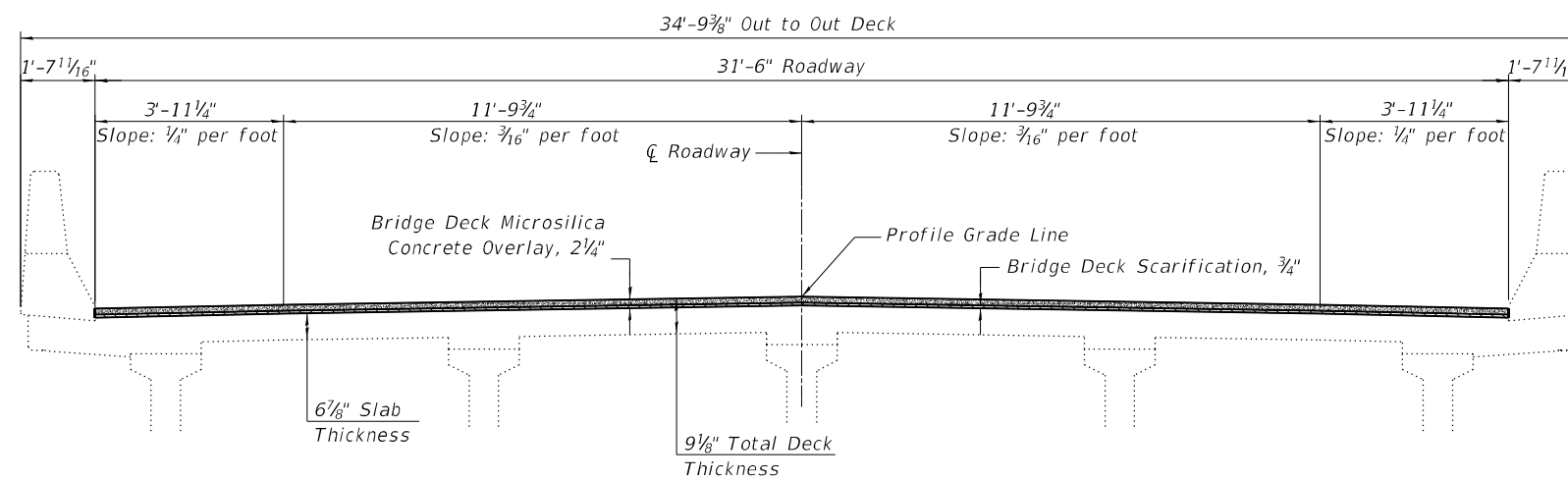
SHEET 2 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	33
			CONTRACT NO. 68G91	
		ILLINOIS	FED. AID PROJECT	

MODEL: Cross Sections
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EXISTING CROSS SECTION
 (Looking South)



PROPOSED CROSS SECTION
 (Looking South)



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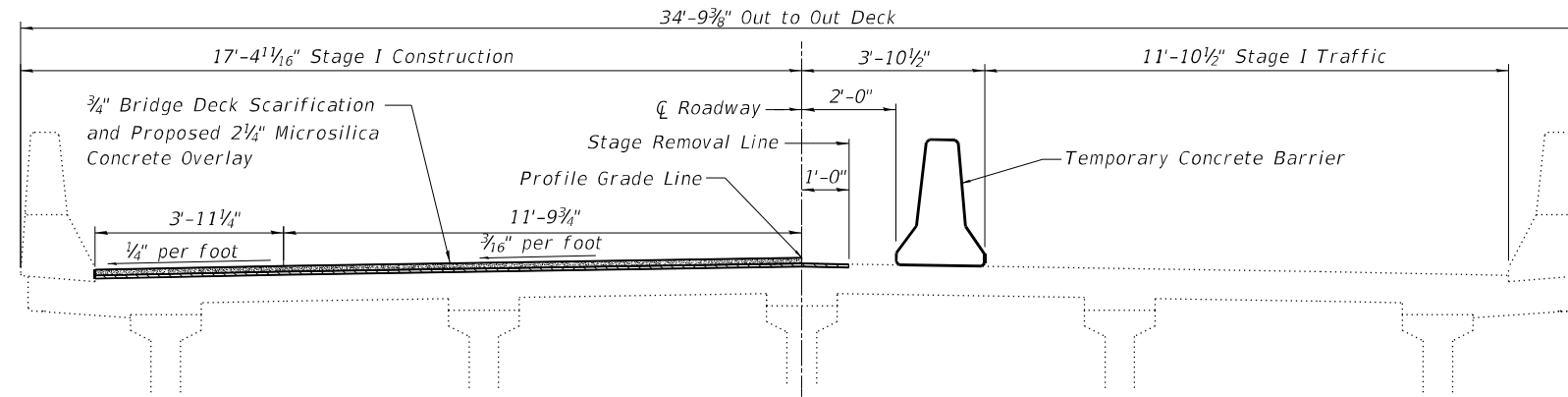
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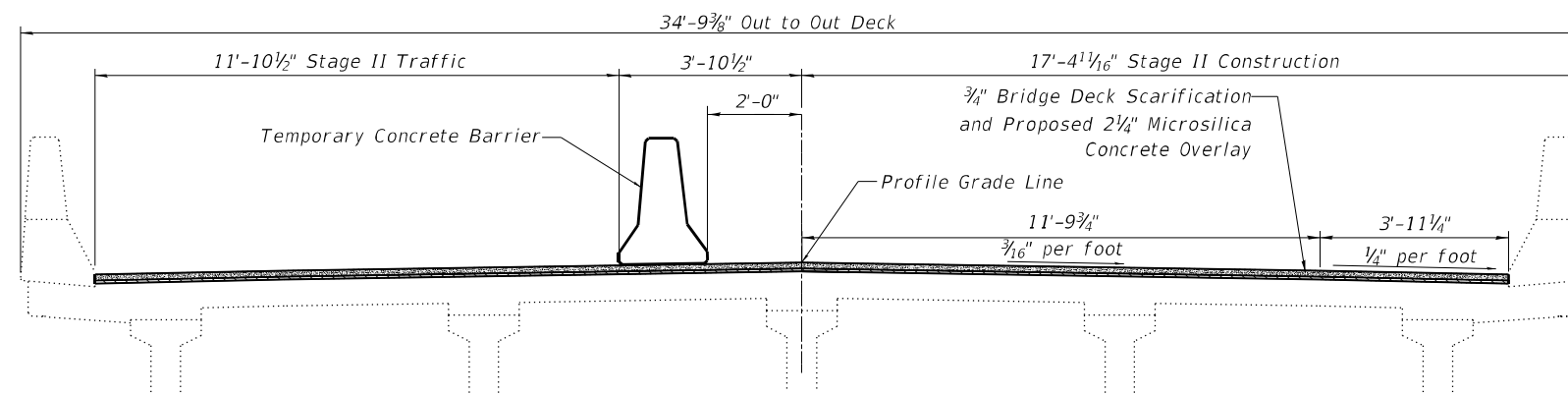
EXISTING AND PROPOSED TYPICAL CROSS SECTIONS
 S.N. 048-0085

SHEET 3 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	34
			CONTRACT NO. 68G91	
		ILLINOIS	FED. AID PROJECT	



STAGE I CONSTRUCTION DETAILS
(Looking South)



STAGE II CONSTRUCTION DETAILS
(Looking South)

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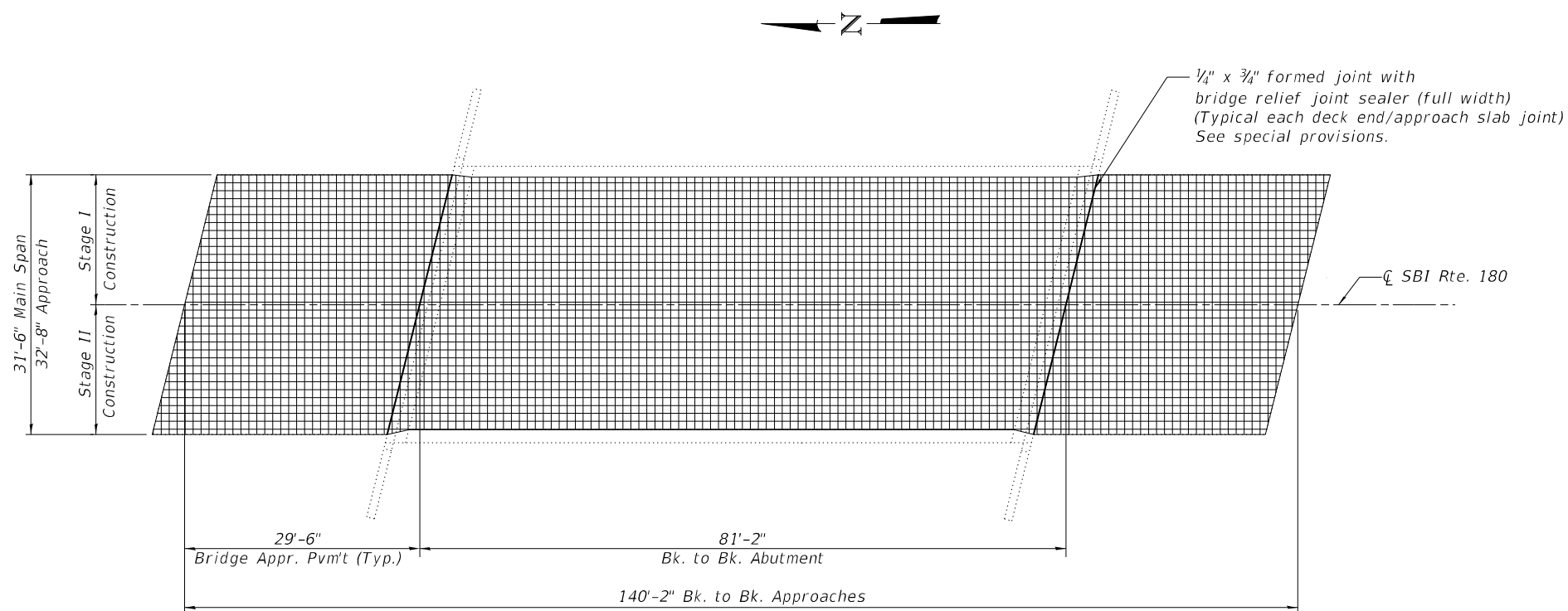
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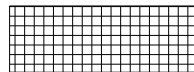
STAGE CONSTRUCTION DETAILS
S.N. 048-0085
SHEET 4 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	35
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

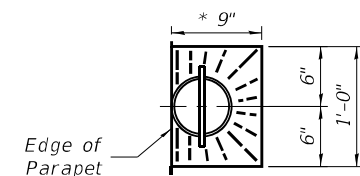
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PLAN



Bridge Deck Scarification, $\frac{3}{4}$ ", Bridge Deck Microsilica Concrete Overlay, $2\frac{1}{4}$ ", and Bridge Deck Grooving



FLOOR DRAIN TOP PLAN

* Slope Overlay 1" to Drain

BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Microsilica Concrete Overlay, $2\frac{1}{4}$ "	Sq. Yd.	498
Bridge Deck Scarification, $\frac{3}{4}$ "	Sq. Yd.	498
Bridge Deck Grooving	Sq. Yd.	467



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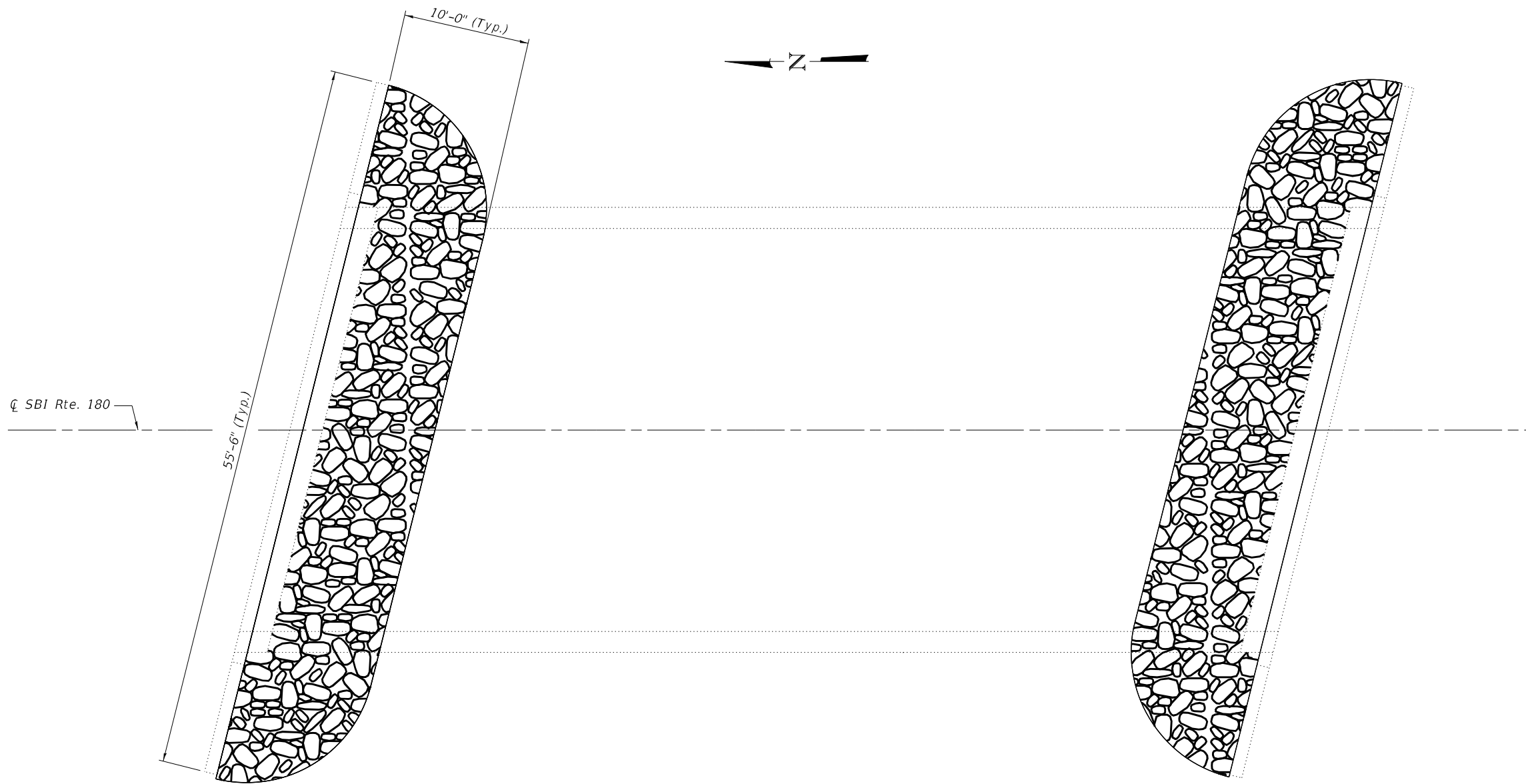
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WEARING SURFACE PLAN
 S.N. 048-0085

SHEET 5 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	36
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

MODEL: Concrete Removal Details
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PLAN

BILL OF MATERIAL

Item	Unit	Total
Stone Dumped Riprap, Class A4	Sq. Yd.	127

Note:
 Minimum thickness of Stone Dumped Riprap, Class A4 = 18 inches.
 No fabric or bedding stone required.



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RIPRAP PLACEMENT AT ABUTMENTS
 S.N. 048-0085

SHEET 6 OF 6 SHEETS

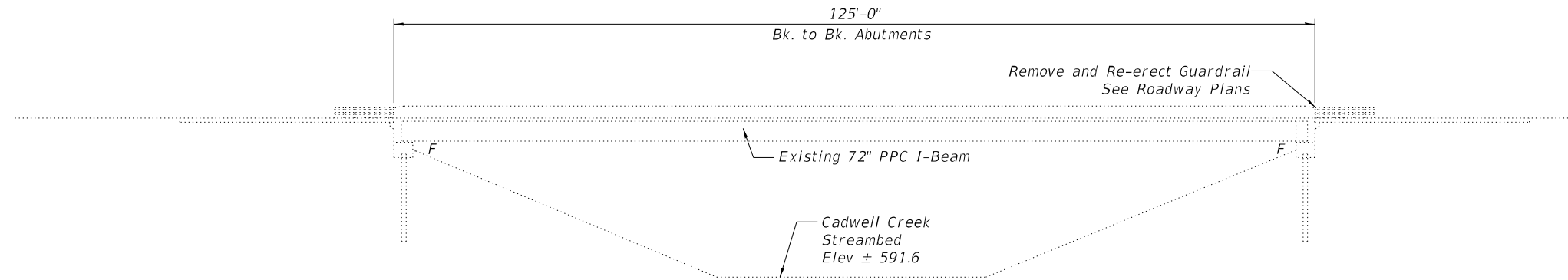
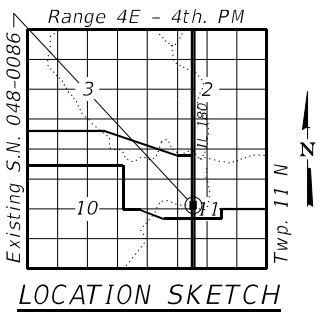
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1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68G91	

Structure 048-0086 was originally constructed in 2000 as FAS 1195, Contract 88615, Section (112B)BR-1 at Station 637+31 in Knox County. It has not been reconstructed or rehabilitated. It is not known whether it has received minor repairs.

The existing structure is a single span PPC I-beam bridge. The superstructure consists of six 72" I-beams supporting a nominal 7 7/8" thick RC deck. There is no existing overlay on the bridge deck. The existing abutments are integral abutments.

The structure has an overall length of 125'-0" from back to back of abutments. The deck has an out to out width of 34'-9 7/8", and a deck (clear area) width of 31'-6" base to base of curb.

Note:
See Sheet 2 of 5 for Proposed Work, Bill of Material, and General Notes.

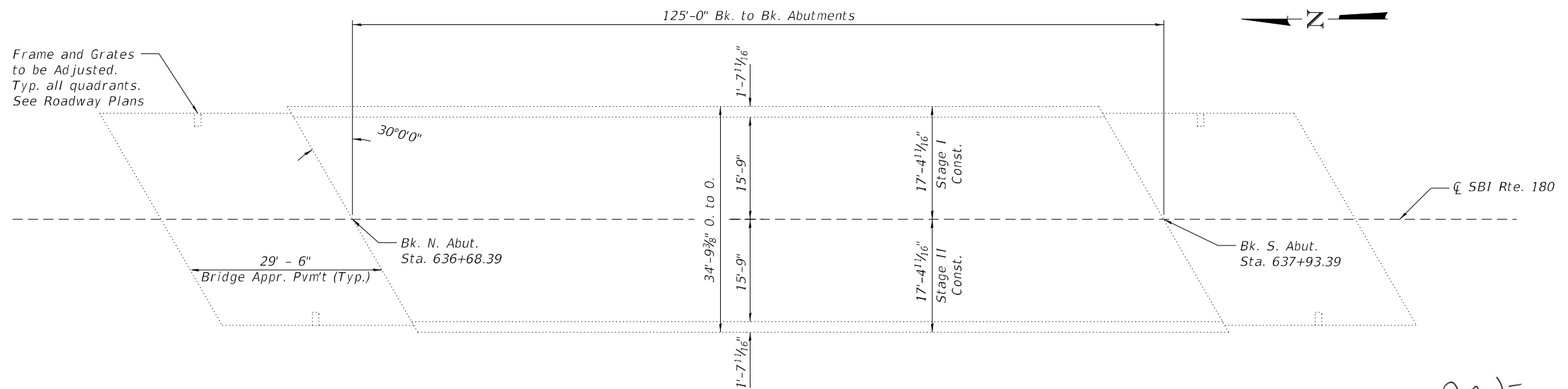


ELEVATION

**DESIGN STRESSES
FIELD UNITS**

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

Existing Structure
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f'_c = 6,000$ psi (Prestressed Units)
 $f'_s = 270,000$ psi (Strands)



PLAN

[Signature]
TYLER ZIEGLER
 Licensed Structural Engineer
 State of Illinois No. 081-007505
 Expires 11-30-2024
 10-17-2022
 Date



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
 S.N. 048-0086**
 SHEET 1 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	38
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Grooving	Sq. Yd.	611
Protective Coat	Sq. Yd.	652
Bridge Deck Scarification 3/4"	Sq. Yd.	652
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	652

PROPOSED WORK

1. Perform Bridge Deck Scarification on Bridge Deck and Concrete Approaches.
2. Place Microsilica Concrete Overlay on Bridge Deck and Concrete Approaches.
3. Perform Deck Grooving.
4. Perform Bridge Relief Joint Sealer work.
5. Apply Protective Coat.

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. Such variations 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 for the work.

Protective Coat shall be applied to new concrete overlay areas only.

Synthetic fibers shall be included in the bridge deck concrete overlay specified. See Special Provisions.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Existing and Proposed Typical Cross Sections
4. Stage Construction Details
5. Wearing Surface Plan

MODEL: General Notes
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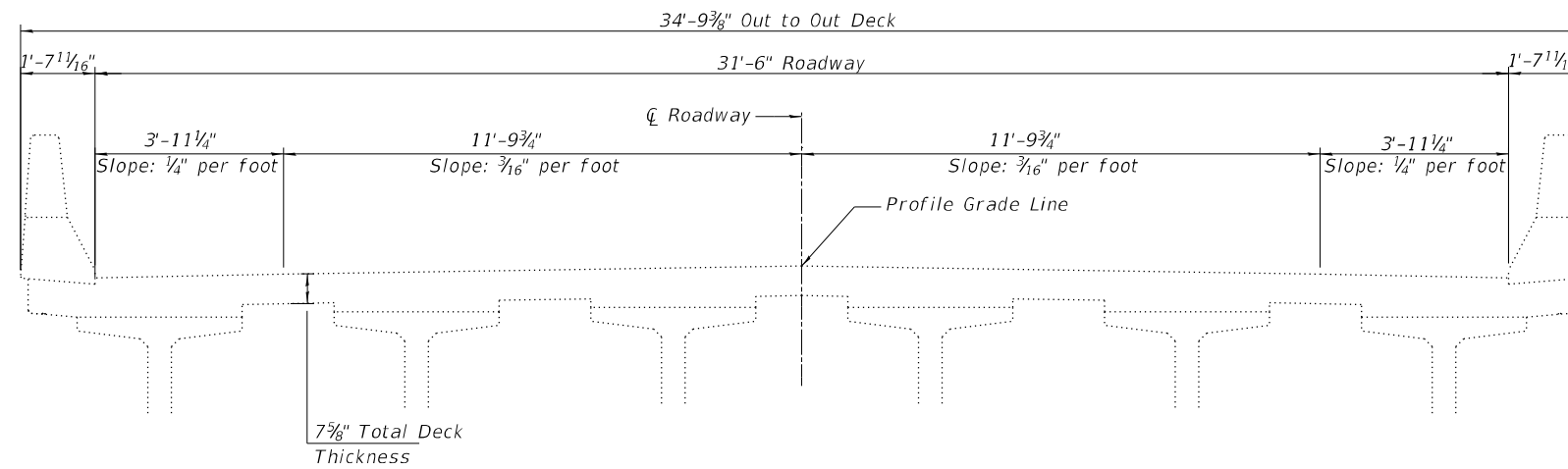
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**GENERAL DATA
 S.N. 048-0086**

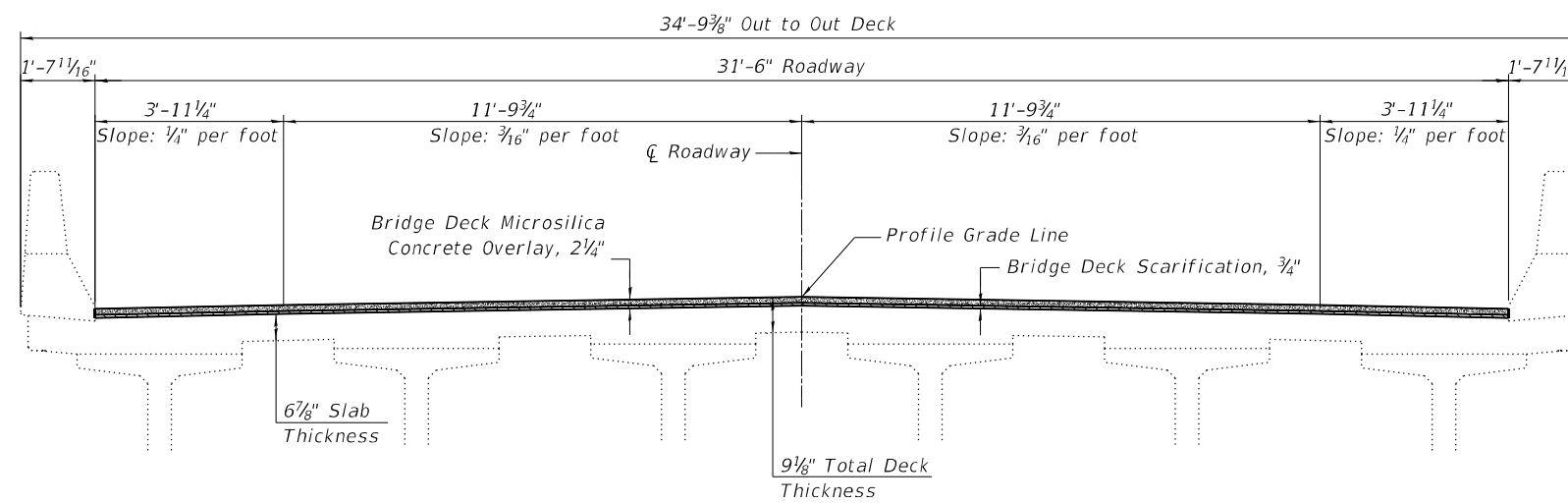
SHEET 2 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	39
			CONTRACT NO. 68G91	
		ILLINOIS	FED. AID PROJECT	

MODEL: Cross Sections
 FILE NAME: P:\5555\44X-5555\15436 - PTB 202426_D4_VV TMMIWO 1\24-Structures\CAD\1468G91_048_0086\1468G91_sht_Existing and Proposed Typical Cross Sections.dgn



EXISTING CROSS SECTION
 (Looking South)



PROPOSED CROSS SECTION
 (Looking South)



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 LICENSE # 184.003222

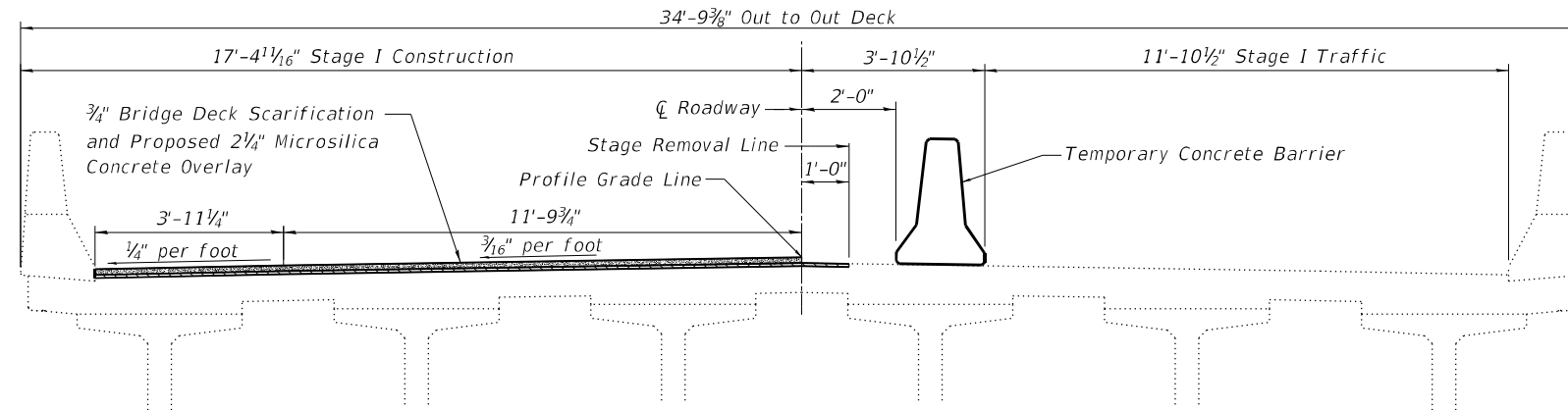
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL CROSS SECTIONS
 S.N. 048-0086

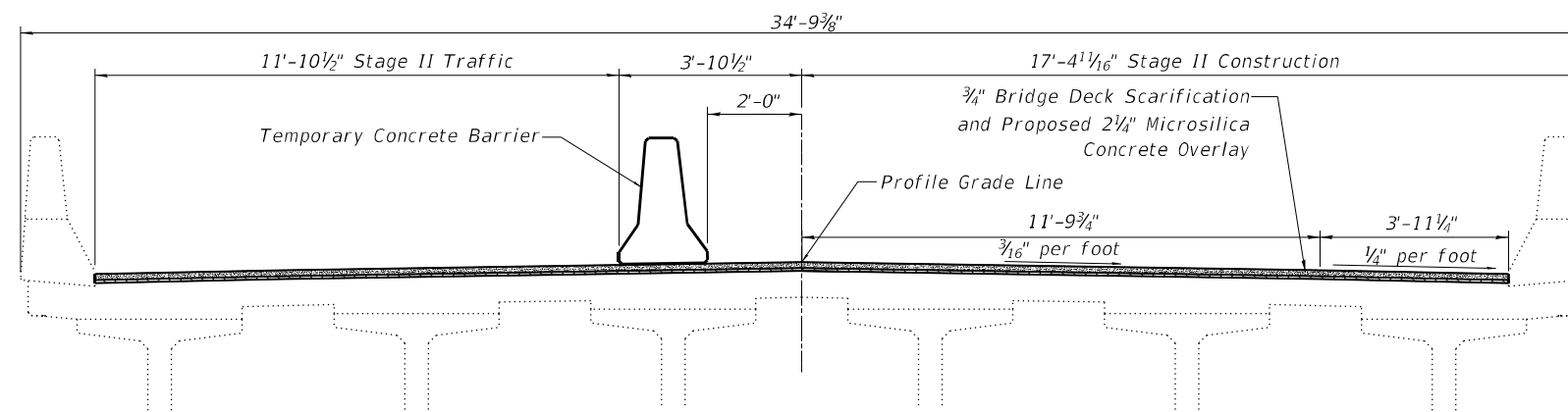
SHEET 3 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	40
			CONTRACT NO. 68G91	
		ILLINOIS	FED. AID PROJECT	



STAGE I CONSTRUCTION DETAILS

(Looking South)



STAGE II CONSTRUCTION DETAILS

(Looking South)

MODEL: Stage Const1
 FILE NAME: P:\5\XXX\4X-55XX\5436 - PTB 202426_D4_VV TMMIWO 1\24-Structures\CAD\468G91_048_0086\468G91_sh_Stage_Construction_Details.dgn

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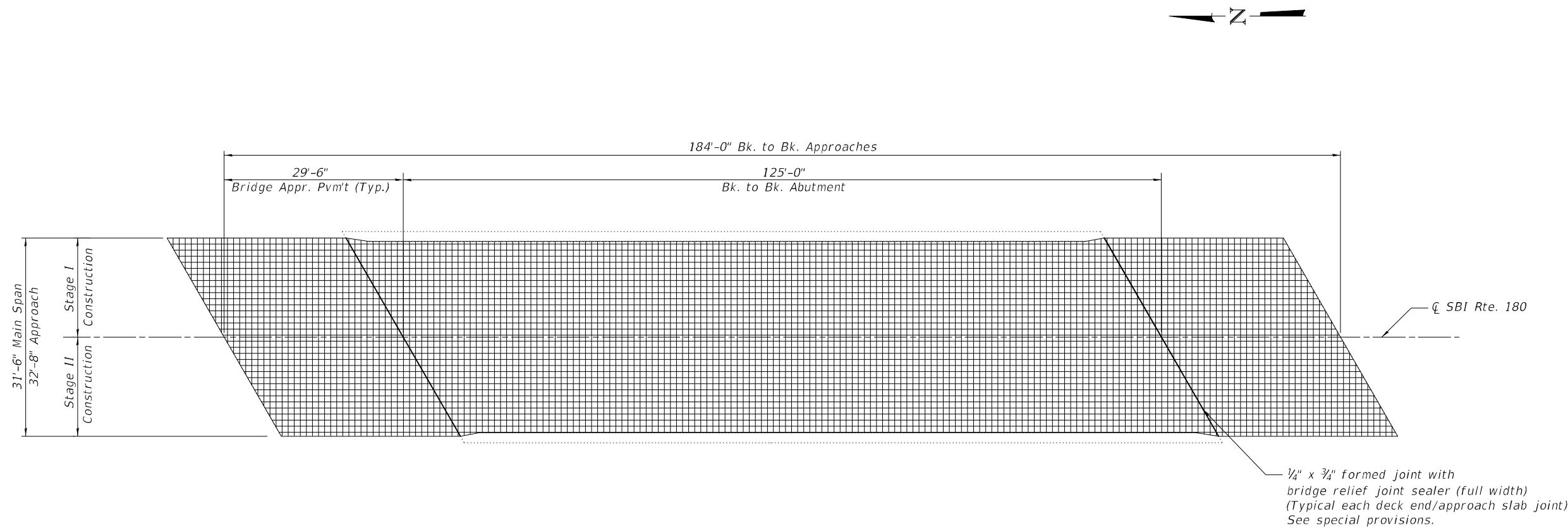
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
S.N. 048-0086

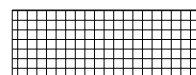
SHEET 4 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	41
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

MODEL: Wearing Surface
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PLAN



Bridge Deck Scarification, 3/4", Bridge Deck Microsilica Concrete Overlay, 2 1/4", and Bridge Deck Grooving

BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	652
Bridge Deck Scarification, 3/4"	Sq. Yd.	652
Bridge Deck Grooving	Sq. Yd.	611



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PLOT DATE =	CHECKED - KAS	REVISED -

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 DEPARTMENT OF TRANSPORTATION

WEARING SURFACE PLAN
 S.N. 048-0086

SHEET 5 OF 5 SHEETS

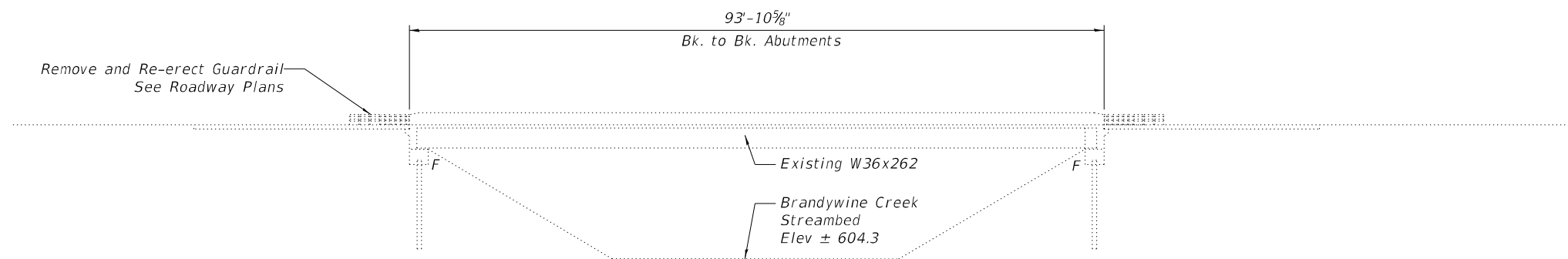
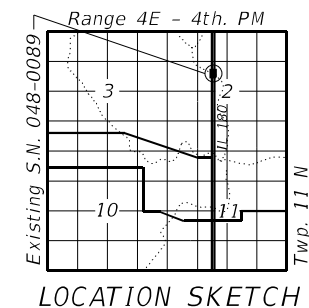
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	42
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

Structure 048-0089 was originally constructed in 2009 as FAS 1195, Contract 88896, Section (112B)BR-3 at Station 586+75 in Knox County. It has not been reconstructed or rehabilitated. It is not known whether it has received minor repairs.

The existing structure is a single span composite steel multi-beam bridge. The superstructure consists of six W36x262 beams supporting a nominal 8" thick RC deck. There is no existing overlay on the bridge deck. The existing abutments are integral abutments.

The structure has an overall length of 93'-10⁵/₈" from back to back of abutments. The deck has an out to out width of 43'-2", and a deck (clear area) width of 40'-0" base to base of curb.

Note:
See Sheet 2 of 5 for Proposed Work, Bill of Material, and General Notes.

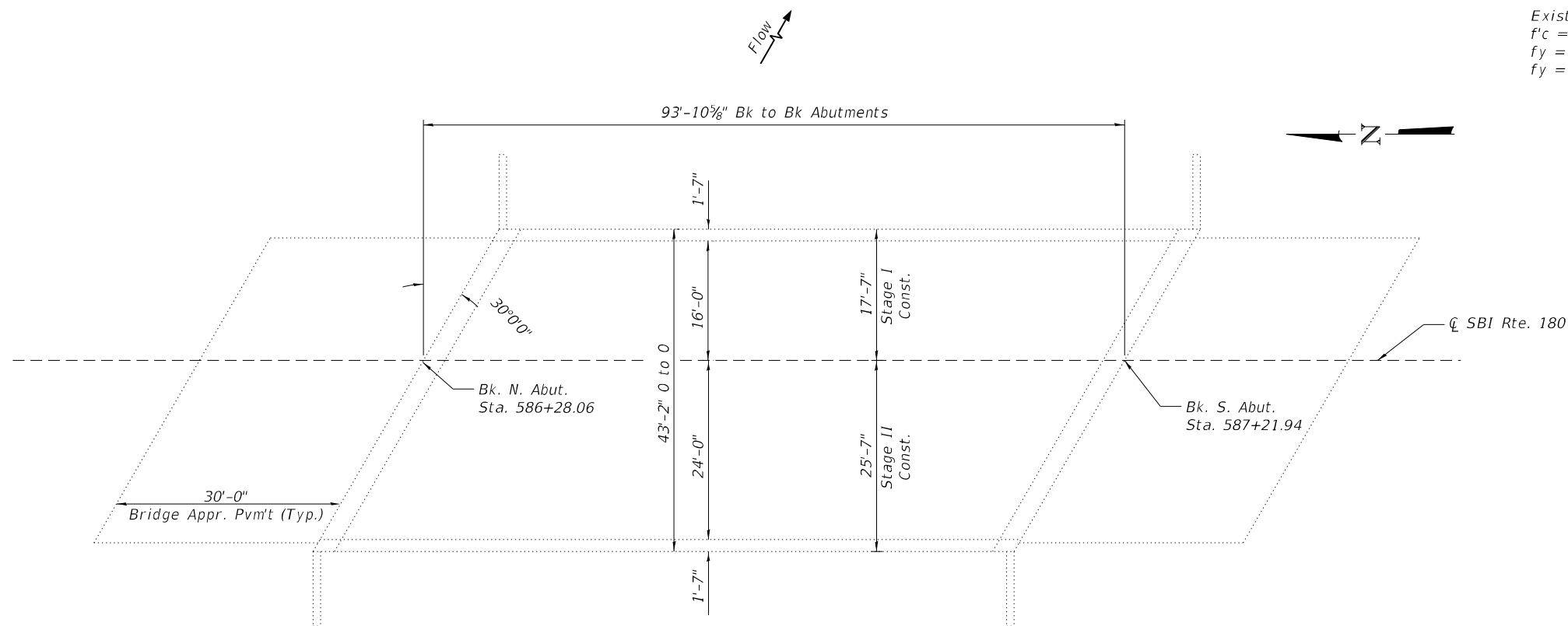


ELEVATION

**DESIGN STRESSES
FIELD UNITS**

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

Existing Structure
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M223 Gr. 50 Structural Steel)



PLAN

[Signature]
 10-17-2022 Date
TYLER ZIEGLER
 Licensed Structural Engineer
 State of Illinois No. 081-007505
 Expires 11-30-2024



MODEL: GPE
FILE NAME: X:\5XXX\54XX-55XX\5436 - PTB 202-026_D4 VV TWM\WO 1\24-Structures\CAD\048\0089\048\0089\048\0089\048\0089.dgn



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PLOT DATE =	CHECKED - KAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
S.N. 048-0089**

SHEET 1 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	43
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Grooving	Sq. Yd.	655
Protective Coat	Sq. Yd.	689
Bridge Deck Scarification 3/4"	Sq. Yd.	689
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	689

PROPOSED WORK

1. Perform Bridge Deck Scarification on Bridge Deck and Concrete Approaches.
2. Place Microsilica Concrete Overlay on Bridge Deck and Concrete Approaches.
3. Perform Deck Grooving.
4. Perform Bridge Relief Joint Sealer work.
5. Apply Protective Coat.

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. Such variations 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 for the work.

Protective Coat shall be applied to new concrete overlay areas only.

Synthetic fibers shall be included in the bridge deck concrete overlay specified. See Special Provisions.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Existing and Proposed Typical Cross Sections
4. Stage Construction Details
5. Wearing Surface Plan

MODEL: General Notes
 FILE NAME: P:\5\XXX\54XX-55XX\5436 - PTB 202426_D4_VV TMMIWO 1\24-Structures\CAD\468G91_048_0089\468G91_shl_General Data.dgn
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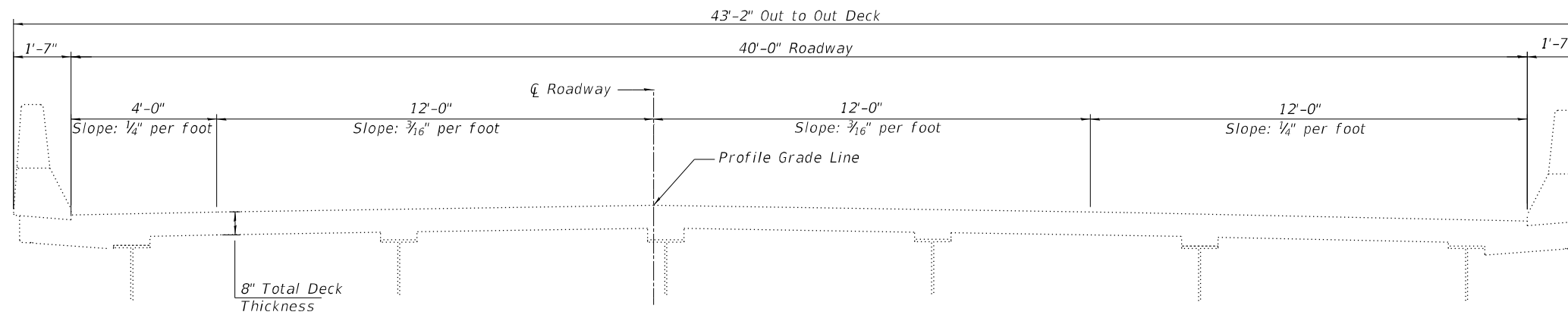
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

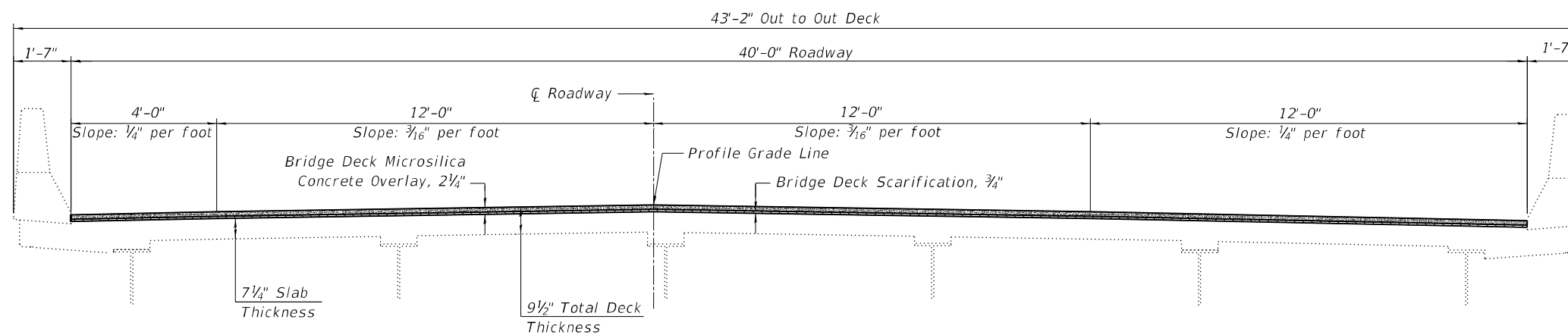
**GENERAL DATA
 S.N. 048-0089**

SHEET 2 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	44
			CONTRACT NO. 68G91	
		ILLINOIS	FED. AID PROJECT	



EXISTING CROSS SECTION
(Looking South)



PROPOSED CROSS SECTION
(Looking South)

MODEL: Cross Sections
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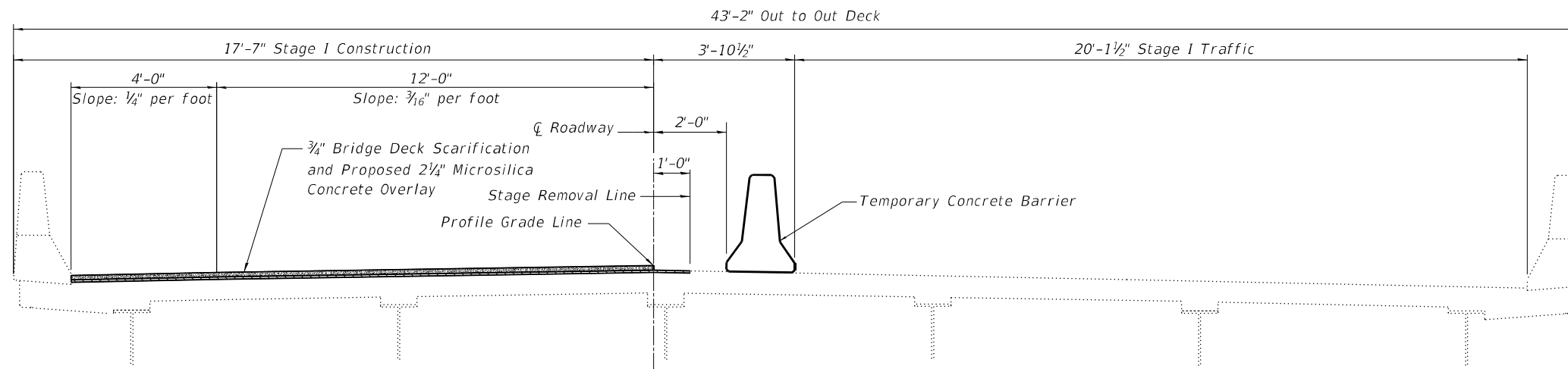


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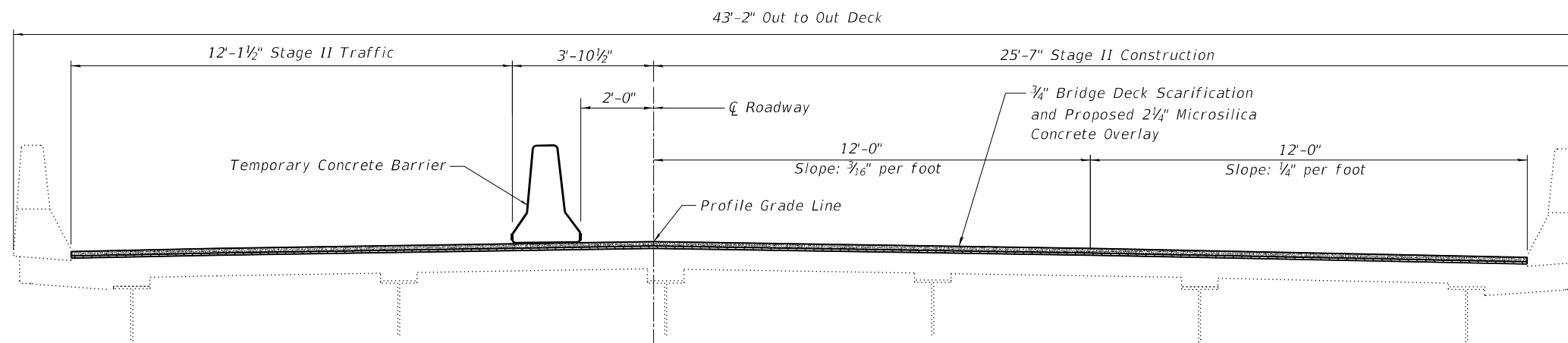
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL CROSS SECTIONS
S.N. 048-0089**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	45
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				



STAGE I CONSTRUCTION DETAILS
(Looking South)



STAGE II CONSTRUCTION DETAILS
(Looking South)

MODEL: Stage Const1
FILE NAME: P:\5XXX\54XX-55XX\5436 - PTB 202-426_D4_VV TMMIWO 1\24-Structures\CAD\468G91_048_0089\468G91_sht_Stage_Construction_Details.dgn

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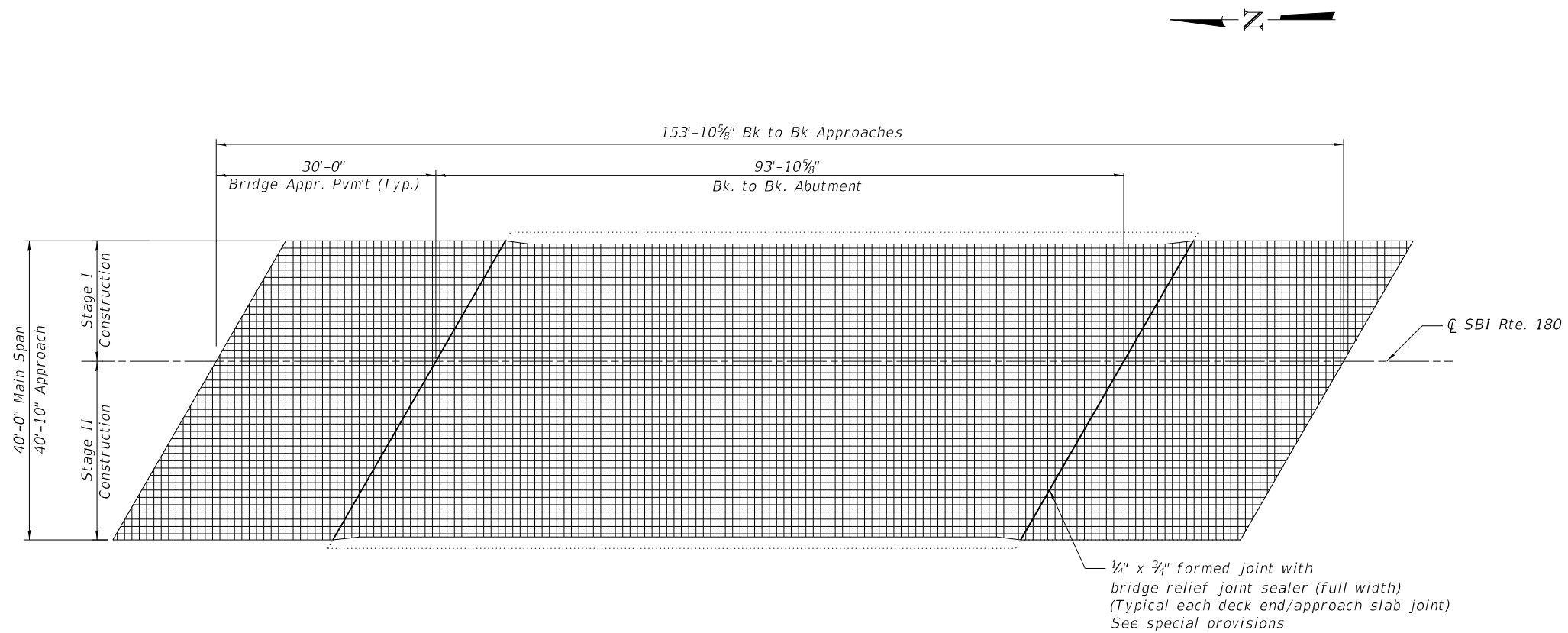
STATE OF ILLINOIS
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STAGE CONSTRUCTION DETAILS
S.N. 048-0089

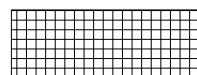
SHEET 4 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	46
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				

MODEL: Wearing Surface
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PLAN



Bridge Deck Scarification, $\frac{3}{4}$ " , Bridge Deck Microsilica Concrete Overlay, $2\frac{1}{4}$ " , and Bridge Deck Grooving

BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Microsilica Concrete Overlay, $2\frac{1}{4}$ "	Sq. Yd.	689
Bridge Deck Scarification, $\frac{3}{4}$ "	Sq. Yd.	689
Bridge Deck Grooving	Sq. Yd.	655



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PLOT SCALE =	DRAWN - DWS	REVISED -
PLOT DATE =	CHECKED - KAS	REVISED -

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 DEPARTMENT OF TRANSPORTATION

WEARING SURFACE PLAN
 S.N. 048-0089

SHEET 5 OF 5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1195	112B[BR;BR(1,2,3)]BJR,BDR	KNOX	47	47
CONTRACT NO. 68G91				
ILLINOIS FED. AID PROJECT				