

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	1
		ILLINOIS	CONTRACT NO. 66P33	

D-93-047-24

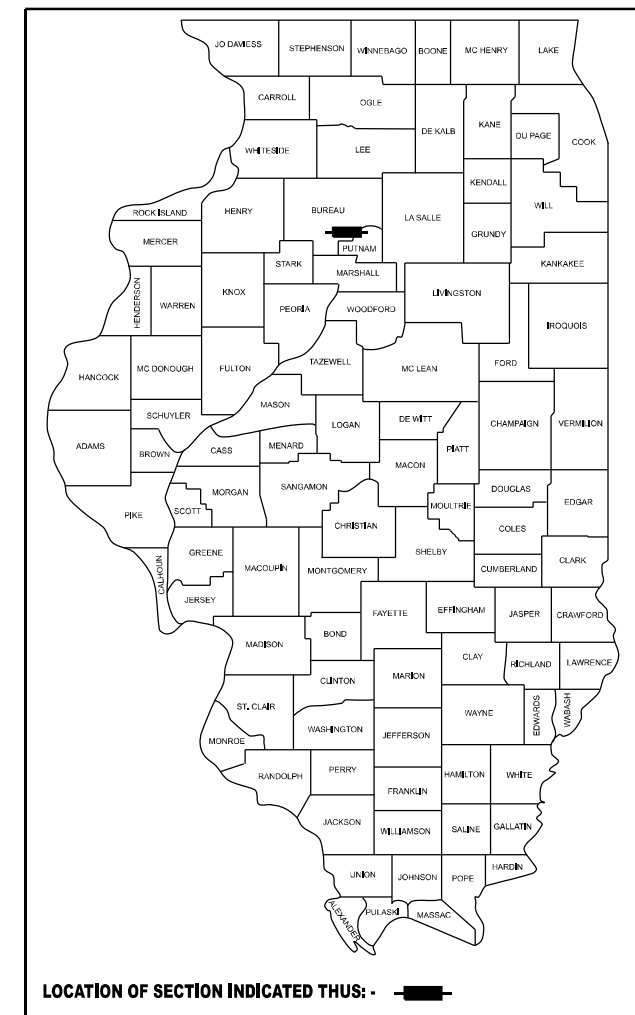
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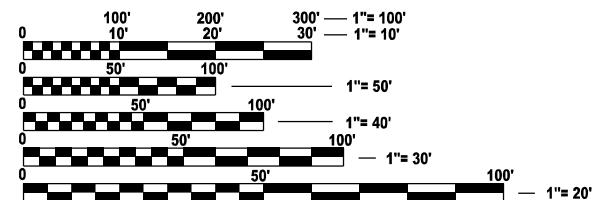
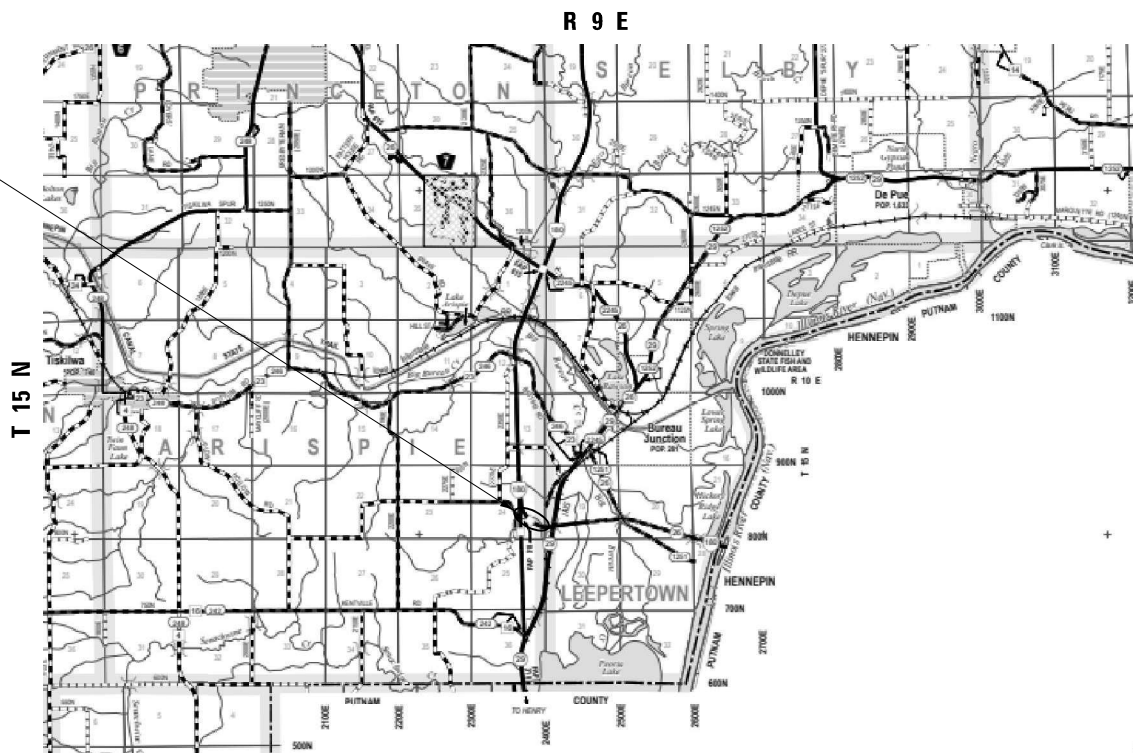
PROPOSED  
HIGHWAY PLANS

FAI ROUTE 180 (I-180)  
SECTION (06-2HB-4)BRR  
BRIDGE REPAIR  
BUREAU COUNTY

C-93-084-24



PROJECT LOCATION  
STR. NO. 006-0056  
CARRYING I-180 NB/SB  
OVER I-180 NB/SB  
EXIT RAMP  
3.6 MILES WEST OF IL 26



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 EXCAVATION  
1-800-892-0123  
OR 811

GROSS LENGTH = 354.78 FT. = 0.067 MILE  
NET LENGTH = 354.78 FT. = 0.067 MILE

MICHAEL J. ROSEBOM  
062-058028  
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS  
*Michael J. Rosebom*  
10/18/2024  
Expires 11/30/2025

PROJECT ENGINEER: JUNIOR SENAT, P.E.  
UNIT CHIEF: RON WOODSHANK  
DISTRICT 3 NO. (815) 434-6131  
CONTRACT NO. 66P33



**FUNCTIONAL CLASSIFICATION**  
RURAL INTERSTATE  
F.A.I. 180 (I-180)  
2023 ADT = 2700  
P.V. 67.8% S.U. 4.4% M.U. 27.8%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 22, 2024  
*Tasha Thompson* REGIONAL ENGINEER  
December 6, 2024  
*Scott A. Elk* ENGINEER OF DESIGN AND ENVIRONMENT  
December 6, 2024  
*James J. ...* DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
442101-09	CLASS B PATCHES
482011-03	HMA SHIELD, STRIPS/SHIELDS, WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-04	NAME PLATE FOR BRIDGES
642001-03	SHOULDER RUMBLE STRIPS, 16 INCH
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15" (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE FREEWAY/EXPRESSWAY WITH BARRIER
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**GENERAL NOTES**

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES ( 100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CONTRACT.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKINGS	10	FT / 100 FT OF APPLICATION

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE DEPARTMENT. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

**COMMITMENTS**

THE ENGINEER SHALL RECORD THE DECK SLAB REPAIR LOCATIONS, PATCH SIZE AND QUANTITIES ON THE DECK SLAB REPAIR "AS-BUILT" PLAN DETAILS. WHEN RECORDED, THE ENGINEER SHALL FORWARD THE DECK SLAB REPAIR "AS-BUILT" PLAN DETAILS TO THE BRIDGE OFFICE IN A TIMELY MANNER. BRIDGE OFFICE CONTACT PERSON IS ADRIAN HALLOWAY. PHONE (217) 524-8624. EMAIL: Adrian.Halloway@Illinois.gov THE ENGINEER SHALL NOTIFY THE DEPARTMENT'S DESIGN AND PLANNING SECTION WHEN THE "AS-BUILTS" DECK SLAB REPAIR PLAN HAS BEEN SENT TO THE BRIDGE OFFICE. CONTACT PERSON IS JUNIOR SENAT. PHONE: (815) 434-8449 EMAIL: Junior.Senat@Illinois.gov

**HMA MIXTURE REQUIREMENT TABLE**

LOCATIONS:	APPROACH PAVEMENT	APPROACH PAVEMENT	SHOULDERS
MIXTURE USE(S):	HMA BINDER	POLY HMA SURFACE	
BINDER GRADE (PG):	SBS PG 70-28	SBS PG 70-28	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N70	4.0% @ N70
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL - 9.5	IL - 9.5	IL - 9.5
FRICTION AGGREGATE:	N/A	MIXTURE "D"	MIXTURE "D"
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES / NUCLEAR	CORES / NUCLEAR	CORES / NUCLEAR

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT 3  
AS-BUILT INFORMATION

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

START & END DATES  
OF CONSTRUCTION: \_\_\_\_\_

INSPECTORS: \_\_\_\_\_

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	DRAWN - MLA	REVISED -
PLOT SCALE = 100.000' / in.	CHECKED - ERO	REVISED -
PLOT DATE = 10/18/2024	DATE - 10/18/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	2
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				CONTRACT MAINTENANCE
				100% STATE
				BRIDGE
				0047
				006-0056
28100107	STONE RIPRAP, CLASS A4	SQ YD	18	18
28200200	FILTER FABRIC	SQ YD	18	18
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	340	340
40600370	LONGITUDINAL JOINT SEALANT	FOOT	398	398
40600990	TEMPORARY RAMP	SQ YD	94	94
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	36	36
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	31	31
44000162	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"	SQ YD	578	578
44201019	CLASS B PATCHES, TYPE II, 14 INCH	SQ YD	32	32
44201299	DOWEL BARS 1 1/2"	EACH	80	80
44213200	SAW CUTS	FOOT	224	224
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	10	10
48203010	HOT-MIX ASPHALT SHOULDERS, 3 1/4"	SQ YD	224	224
50102400	CONCRETE REMOVAL	CU YD	15.3	15.3

\* SPECIALTY ITEM

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DATE - 10/18/2024

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66P33	

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				CONTRACT MAINTENANCE
				100% STATE
				BRIDGE
				0047
				006-0056
50157300	PROTECTIVE SHIELD	SQ YD	272	272
50300255	CONCRETE SUPERSTRUCTURE	CU YD	15.3	15.3
50300300	PROTECTIVE COAT	SQ YD	42	42
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2420	2420
50800515	BAR SPLICERS	EACH	24	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	111	111
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	3	3
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	1.8	1.8
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	267	267
67100100	MOBILIZATION	L SUM	1	1
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	60	60
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	60

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66P33	



**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				CONTRACT MAINTENANCE
				100% STATE
				BRIDGE
				0047
				006-0056
70300100	SHORT TERM PAVEMENT MARKING	FOOT	8599	8599
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2868	2868
70400100	TEMPORARY CONCRETE BARRIER	FOOT	612.5	612.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	550	550
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
* 78004645	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 9"	FOOT	316	316
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2974	2974
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1488	1488
* 78011050	GROOVING FOR RECESSED PAVEMENT MARKING 10"	FOOT	316	316
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	2
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2	2
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	655	655
X5060704	CLEANING AND PAINTING EXPOSED REBAR	SQ FT	56	56

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66P33	







PAVING SCHEDULE												
STATION	TO	STATION	OFFSET RT/LT	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	TEMPORARY RAMP	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N70	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS, 3 1/4"	SHOULDER RUMBLE STRIPS, 16 INCH
				LB	FOOT	SQ YD	TON	TON	SQ YD	TON	SQ YD	TON
651+43.65	TO	652+09.13	RT/LT	164	197	47	18	15	277	5	102	128
654+31.63	TO	654+98.43	RT/LT	176	201	47	18	16	301	5	122	139
<b>TOTAL</b>				<b>340</b>	<b>398</b>	<b>94</b>	<b>36</b>	<b>31</b>	<b>578</b>	<b>10</b>	<b>224</b>	<b>267</b>

I- 180 MAINLINE PATCHING SCHEDULE															
LOCATION				PASSING LANE						DRIVING LANE					
STATION	TO	STATION	OFFSET	PATCH LENGTH	PATCH WIDTH	AREA	CLASS B PATCHES, TYPE II, 14 INCH	DOWEL BARS 1 1/2"	SAW CUTS	PATCH LENGTH	PATCH WIDTH	AREA	CLASS B PATCHES, TYPE II, 14 INCH	DOWEL BARS 1 1/2"	SAW CUTS
				FOOT	FOOT	SQ YD	SQ YD	EACH	FOOT	FOOT	FOOT	FOOT	SQ YD	SQ YD	EACH
651+50.00	TO	651+56.00	RT/LT	6	12	8	8	20	56	6	12	8	8	20	56
654+85.00	TO	654+91.00	RT/LT	6	12	8	8	20	56	6	12	8	8	20	56
<b>TOTAL</b>						<b>16</b>	<b>16</b>	<b>40</b>	<b>112</b>			<b>16</b>	<b>16</b>	<b>40</b>	<b>112</b>

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

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE. 180	SECTION (06-2HB-4)BRR	COUNTY BUREAU	TOTAL SHEETS 37	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66P33	

PAVEMENT MARKING SCHEDULE												
STATION	TO	STATION	OFFSET/COMMENT	SHORT TERM PAVEMENT MARKING FOOT	SHORT TERM PAVEMENT REMOVAL SQ FT	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 9" FOOT	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" FOOT	GROOVING FOR RECESSED PAVEMENT MARKING 5" FOOT	GROOVING FOR RECESSED PAVEMENT MARKING 10" FOOT	RAISED REFLECTIVE PAVEMENT MARKER EACH	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH	PAVEMENT MARKING REMOVAL - WATER BLASTING SQ FT
I-180 SB												
631+62.76	TO	654+98.43	RT/LT	2339	780							
633+57.23	TO	654+98.43	RT/LT	2144	715							
647+45.93	TO	656+05.83	RT	869	290							
649+21.52	TO	655+46.73	LT	621	207							
642+38.18	TO	654+98.43	CL - WHITE SKIP DASH			316			316			158
647+45.93	TO	655+05.83	LT - YELLOW LINE				1731	866				289
649+21.52	TO	655+46.73	RT - WHITE LINE				1243	622				208
651+43.65	TO	652+09.13	CL							2	2	
I-180 NB/SB EXIT RAMP												
STAGE I			RT/LT	1313	438							
STAGE II			RT/LT	1313	438							
<b>TOTAL</b>				<b>8599</b>	<b>2868</b>	<b>316</b>	<b>2974</b>	<b>1488</b>	<b>316</b>	<b>2</b>	<b>2</b>	<b>655</b>

TRAFFIC STAGING SCHEDULE							
STATION	TO	STATION	OFFSET	TEMPORARY CONCRETE BARRIER FOOT	RELOCATE TEMPORARY CONCRETE BARRIER FOOT	IMPACT ATTENUATORS, TEMPORARY(NON-REDIRECTIVE, NARROW), TEST LEVEL 3 EACH	IMPACT ATTENUATORS, RELOCATE(NON-REDIRECTIVE, NARROW), TEST LEVEL 3 EACH
648+97.13	TO	654+98.43	RT/LT	612.50			
649+59.60	TO	654+98.43	RT/LT		550		
648+97.13			LT			1	
649+59.60			RT				1
<b>TOTAL</b>				<b>612.50</b>	<b>550</b>	<b>1</b>	<b>1</b>

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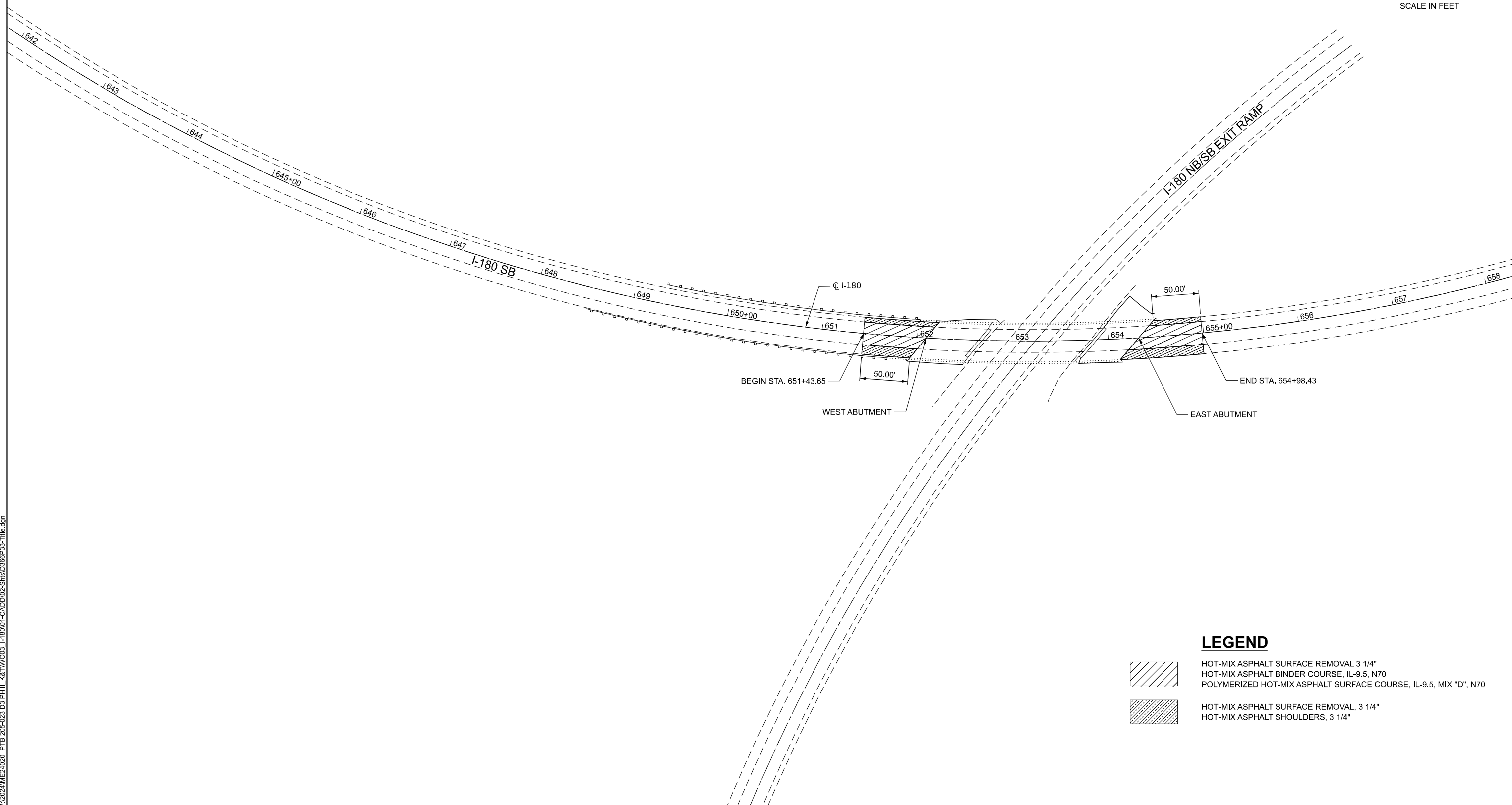
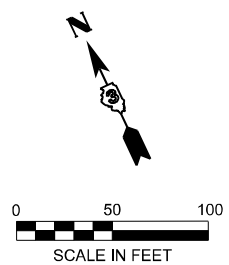
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	10
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL 3 1/4"
- HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70
- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70
- HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"
- HOT-MIX ASPHALT SHOULDERS, 3 1/4"

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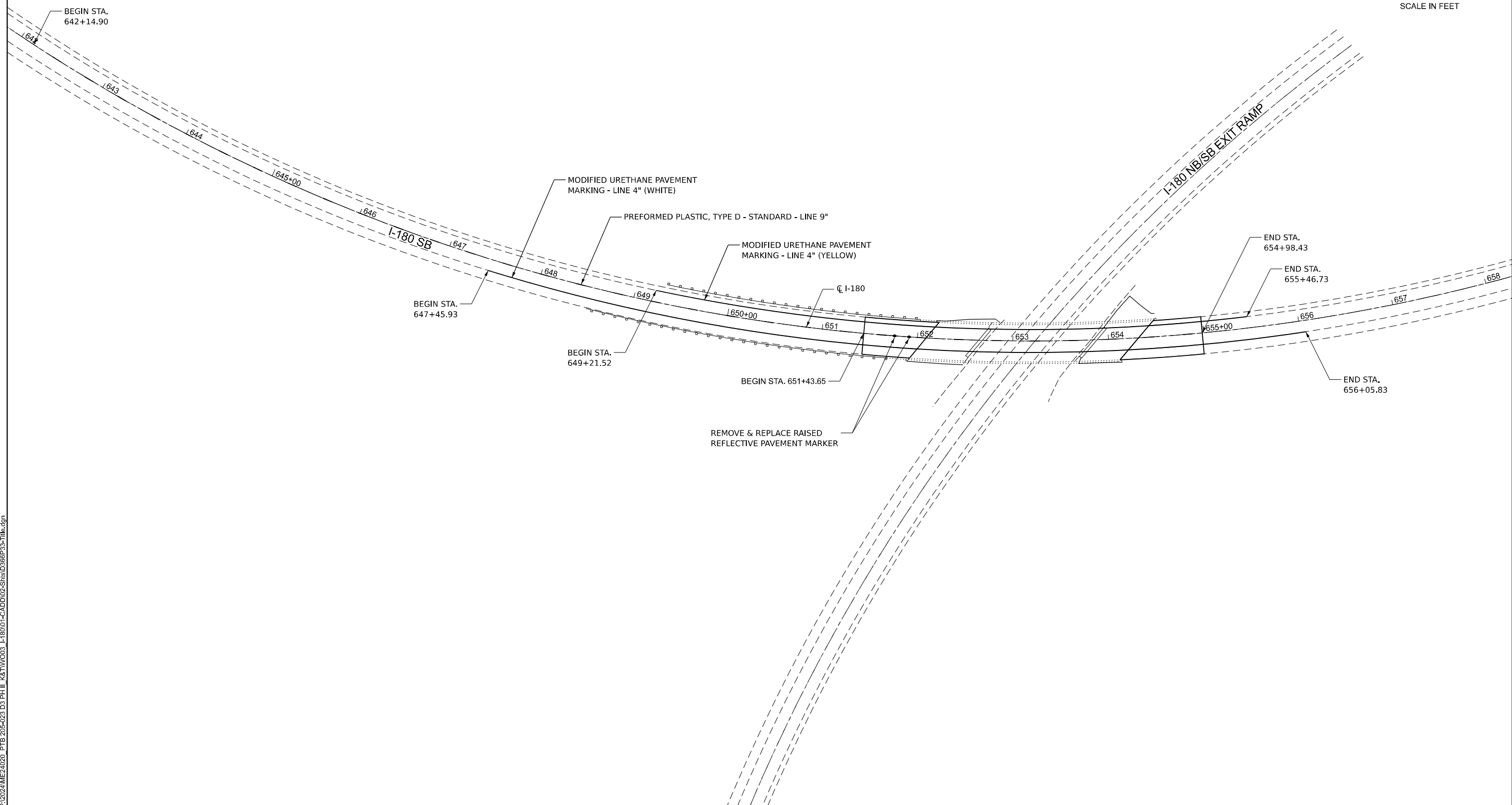
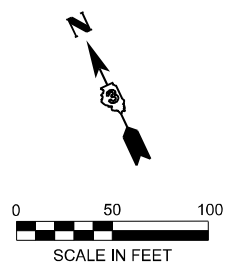
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**

SCALE: 1" = 50'      SHEET 1 OF 1 SHEETS      STA. 651+43.65 TO STA. 654+98.43

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	11
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				





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DRAWN - MLA	REVISED -	
PLOT SCALE = 100,000' / in.	CHECKED - ERO	REVISED -
PLOT DATE = 10/18/2024	DATE - 10/18/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN**

SCALE: 1" = 50'      SHEET 1 OF 1 SHEETS      STA. 642+14.90 TO STA. 656+05.83









F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	12
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				







**LEGEND**

-  ARROW BOARD
-  WORK AREA
-  SIGN
-  DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TEMPORARY CONCRETE BARRIER
-  MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
-  IMPACT ATTENUATOR

- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② GUARDRAIL/BARRIER WALL REFLECTORS AT 25'. MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER. SEE STANDARDS 704001 AND 782006.
- ③ VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER.

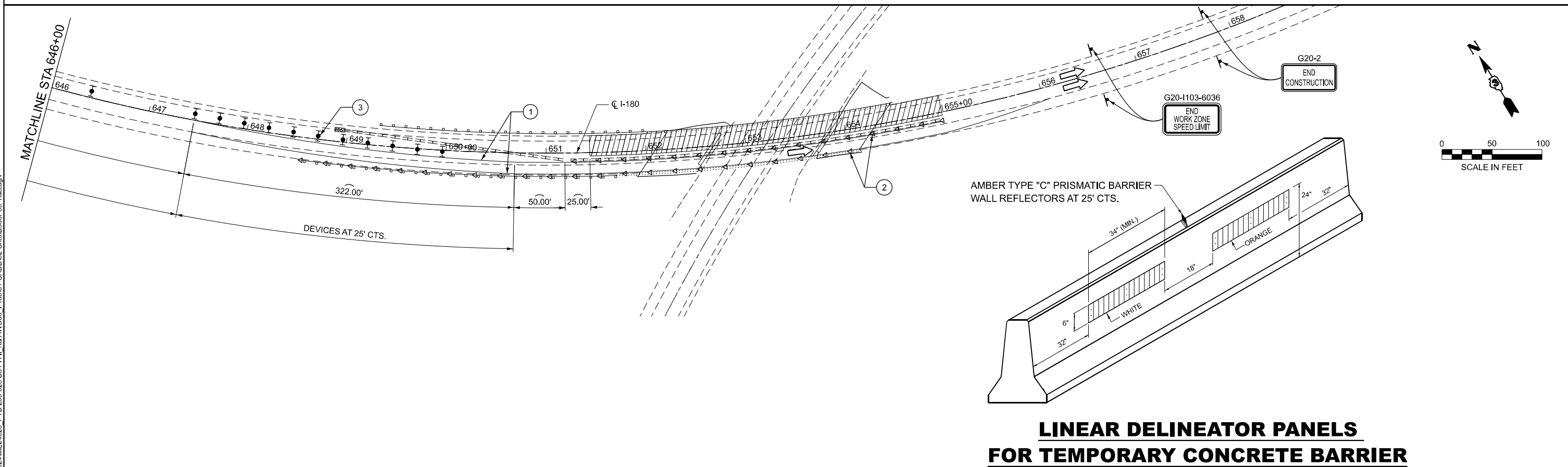
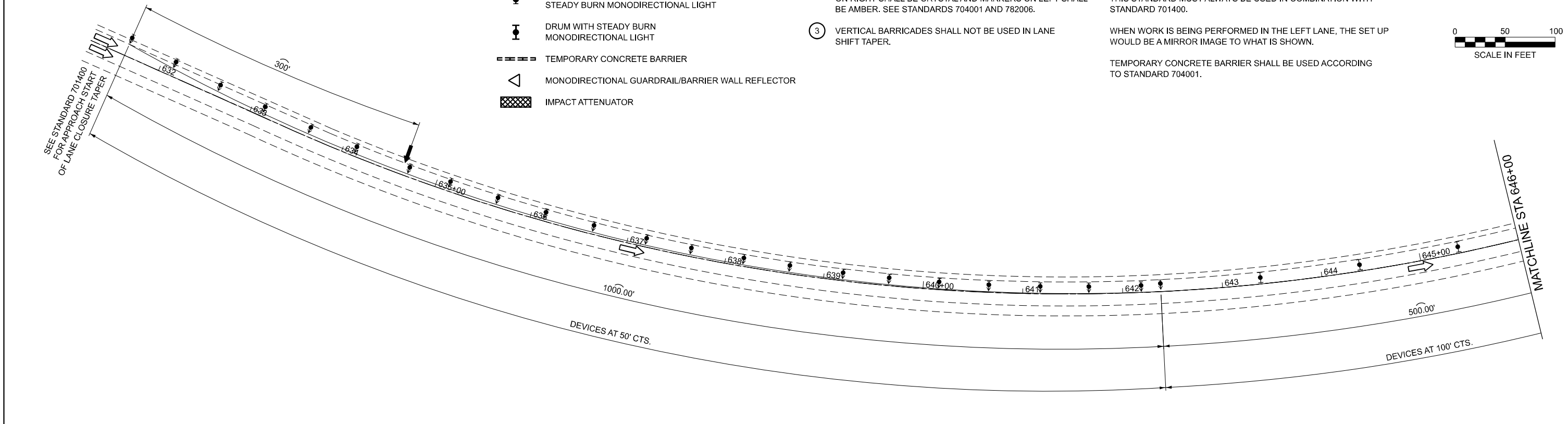
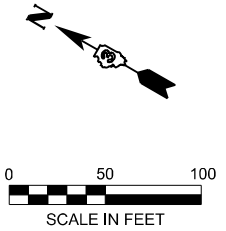
**GENERAL NOTES**

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24" OF THE EDGE OF THE PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.


WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

TEMPORARY CONCRETE BARRIER SHALL BE USED ACCORDING TO STANDARD 704001.



**LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER**

MODEL: Default  
FILE NAME: P:\2024\AIE24020\_PTB 2024-023\_D3 PH II K&TW003\_1-180001-CADD\02-Shts\0366P33-Title.dgn

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


**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-180 SB  
STAGE I TRAFFIC CONTROL**

SCALE: 1" = 50'    SHEET 1 OF 4 SHEETS    STA. 631+62.78 TO STA. 656+05.83

F.A.I. RTE. 180	SECTION (06-2HB-4)BRR	COUNTY BUREAU	TOTAL SHEETS 37	SHEET NO. 16
CONTRACT NO. 66P33			ILLINOIS FED. AID PROJECT	

**LEGEND**

-  ARROW BOARD
-  WORK AREA
-  SIGN
-  DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TEMPORARY CONCRETE BARRIER
-  MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
-  IMPACT ATTENUATOR

- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② GUARDRAIL/BARRIER WALL REFLECTORS AT 25'. MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER. SEE STANDARDS 704001 AND 782006.
- ③ VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER.

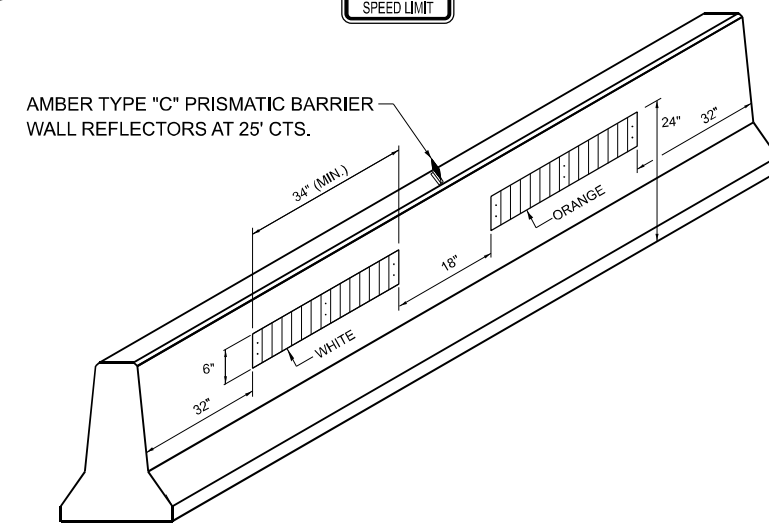
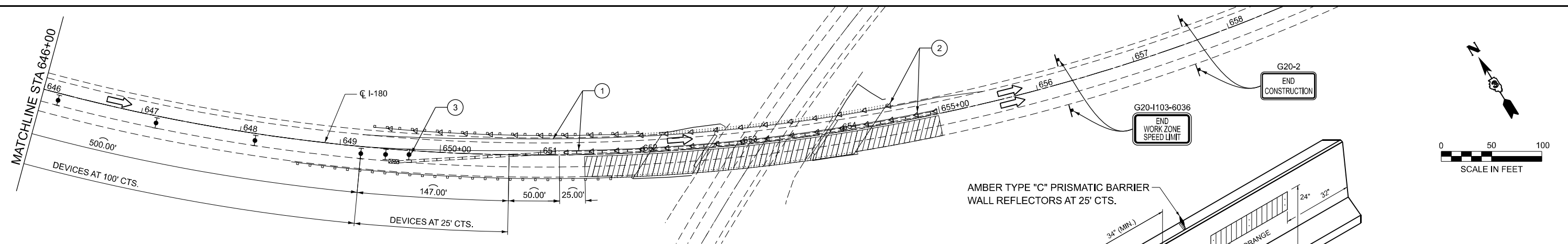
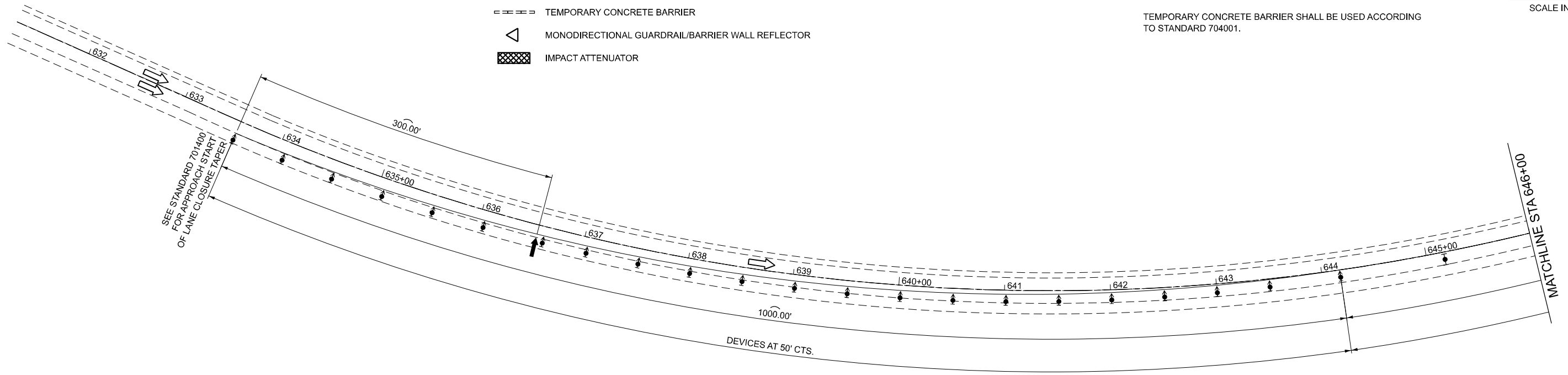
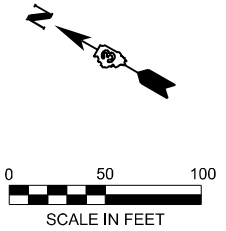
**GENERAL NOTES**

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24" OF THE EDGE OF THE PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

TEMPORARY CONCRETE BARRIER SHALL BE USED ACCORDING TO STANDARD 704001.



**LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER**

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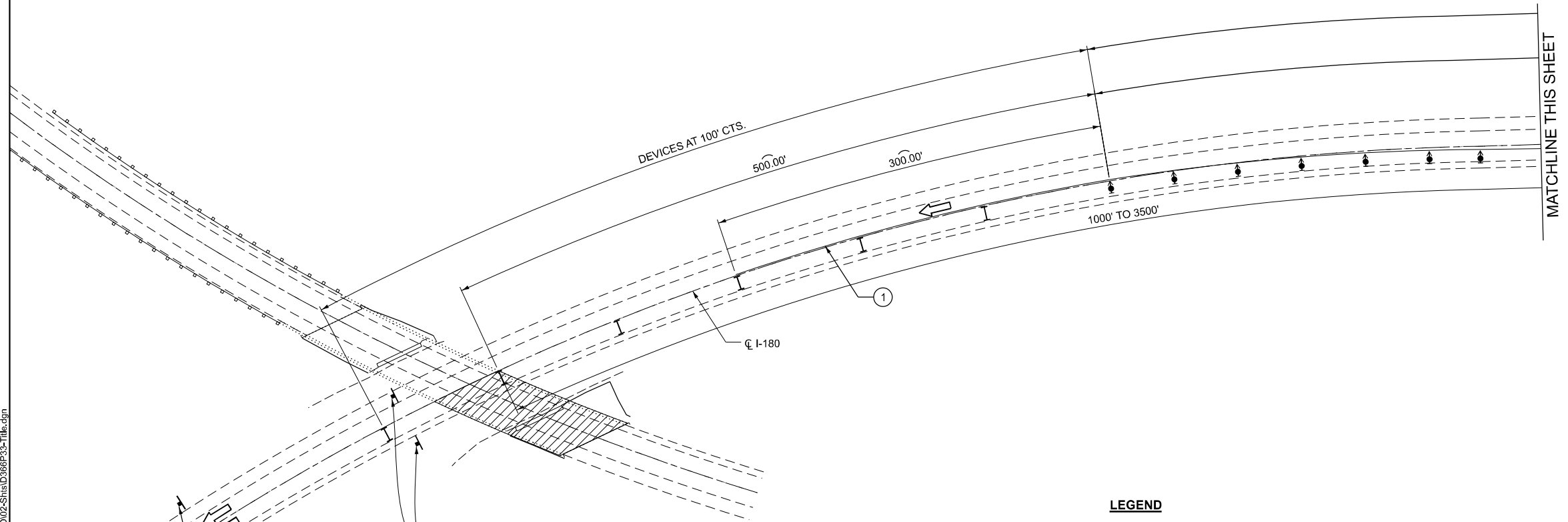
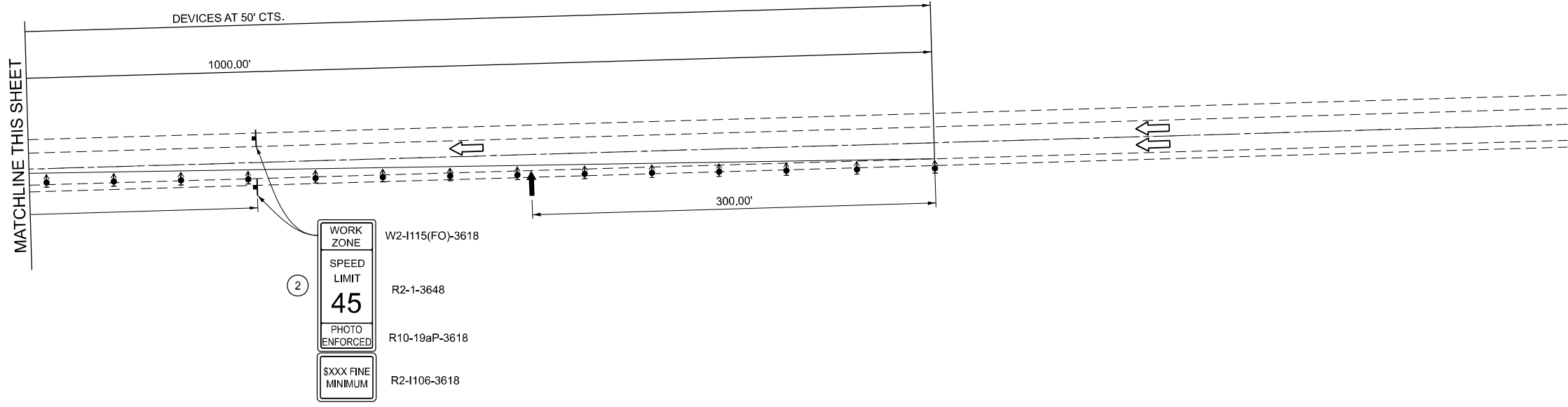
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>I-180 SB STAGE II TRAFFIC CONTROL</b>	
SCALE: 1" = 50'	SHEET 2 OF 4 SHEETS
STA. 633+57.23	TO STA. 655+46.74

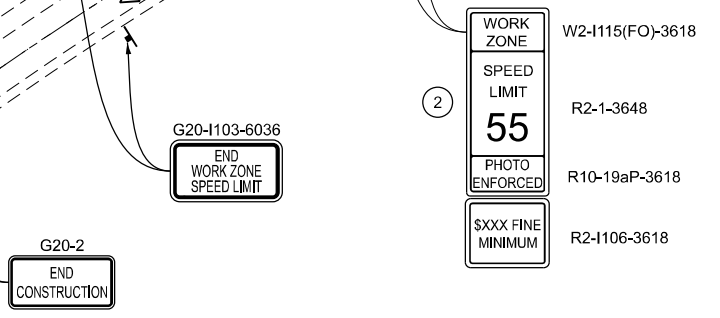
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CONTRACT NO. 66P33			ILLINOIS FED. AID PROJECT	







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- LEGEND**
- ARROW BOARD
  - WORK AREA
  - SIGN
  - DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
  - DRUM
  - WORKER
  - SPOTTER

- GENERAL NOTES**
- 1 REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' ALONG-SIDE THE WORK AREA WHEN THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE EDGE LINE SHALL BE WHITE FOR RIGHT LANE CLOSURE AND YELLOW FOR LEFT LANE CLOSURES.
  - 2 WORK ZONE SPEED LIMIT SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN THE SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY. WORK ZONE SPEED LIMIT 55 PHOTO ENFORCED SIGN SHALL BE OMITTED WHEN THE WORK AREA DICTATES PLACEMENT OF THE SIGN ARRAY WITHIN 500' OF THE END WORK ZONE SPEED LIMIT SIGN.

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24" OF THE EDGE OF THE PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

THIS STANDARD ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE LEFT LANE. UNDER THESE CONDITIONS, THE SETUP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AND AT THE SHOULDER AT 1000' CENTERS.



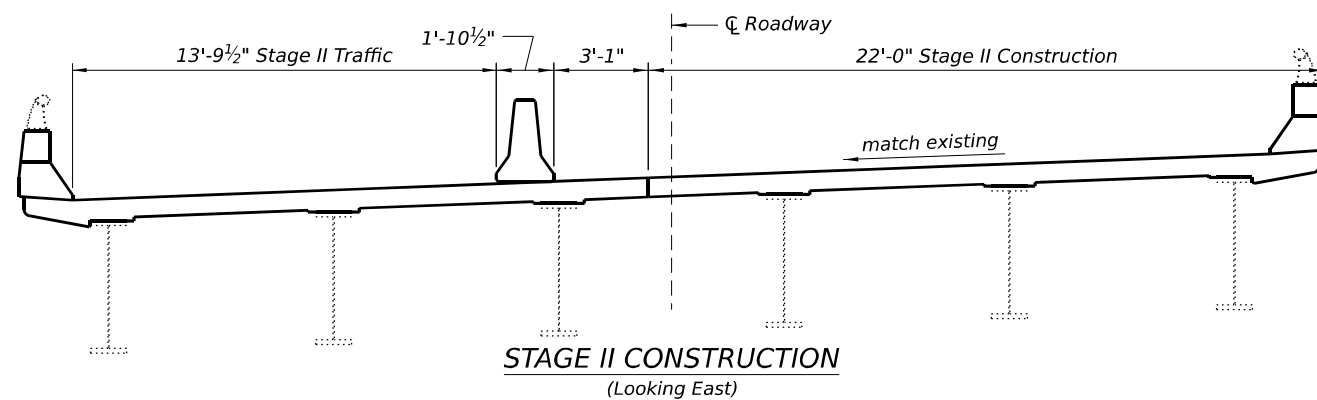
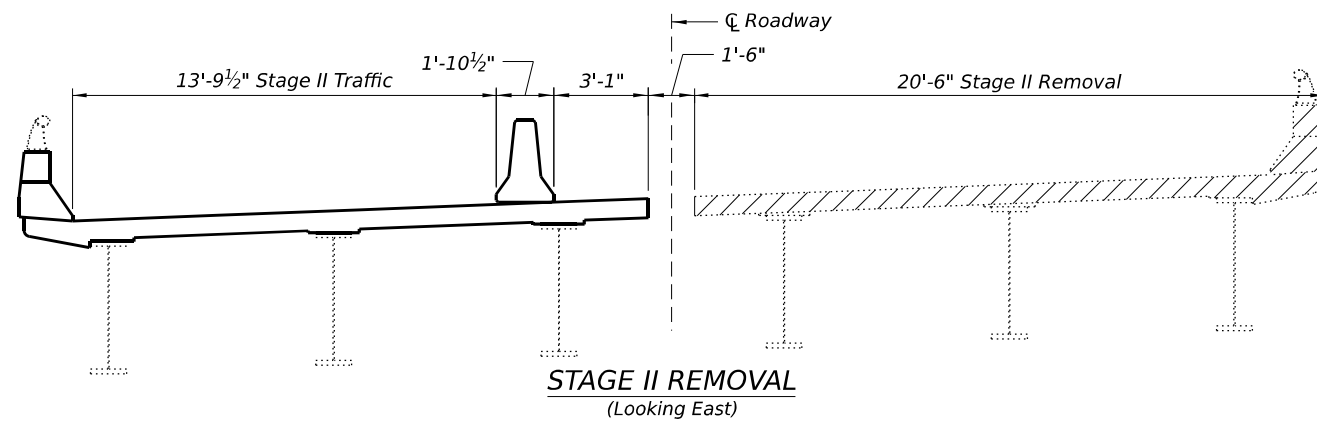
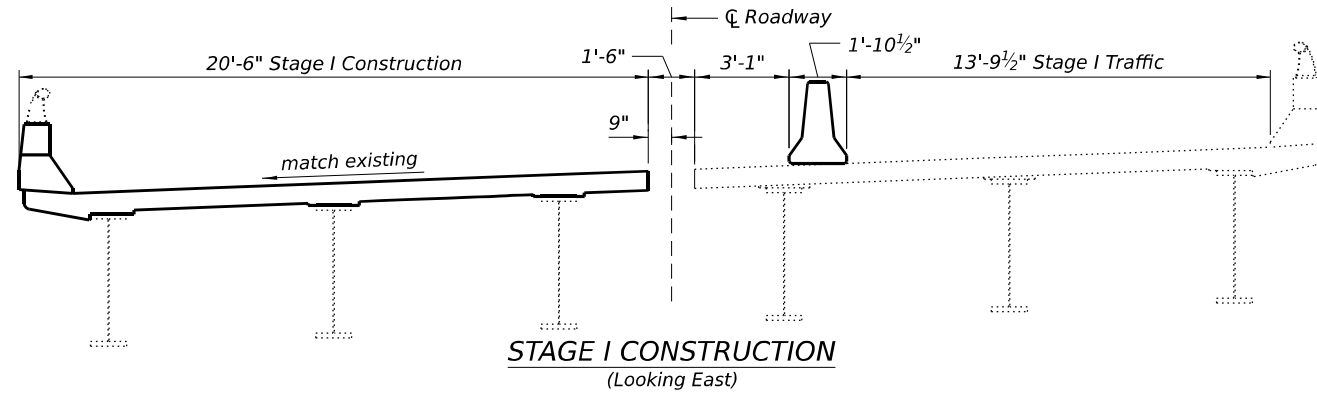
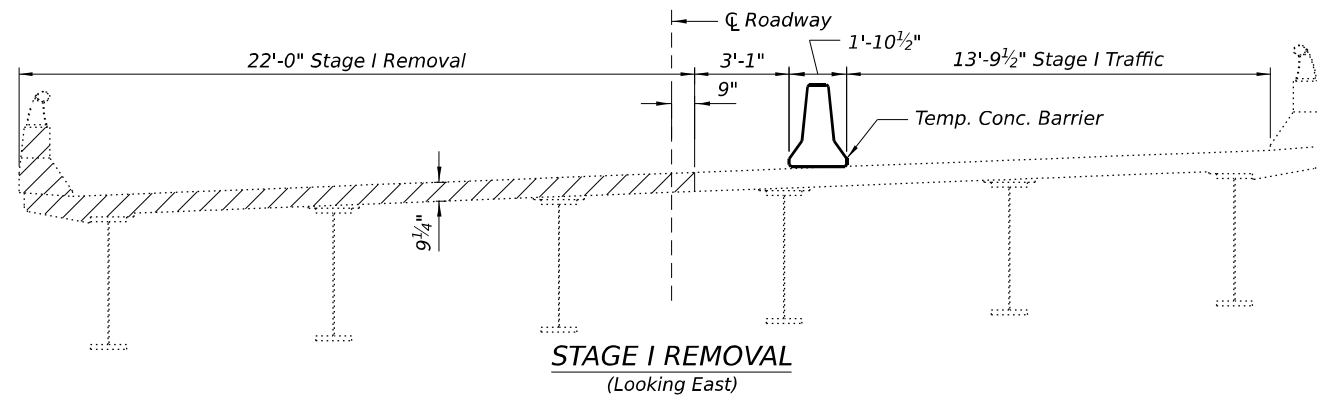
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DRAWN - MLA	REVISED -	
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PLOT DATE = 10/18/2024	DATE - 10/18/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-180 NB/SB EXIT RAMP  
STAGE II TRAFFIC CONTROL**

SCALE: 1" = 50'    SHEET 4 OF 4 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	19
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				



Note:  
Hatched area indicates, Concrete Removal at expansion joints.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		18	18
Filter Fabric	Sq. Yd.		18	18
Concrete Removal	Cu. Yd.	15.3		15.3
Protective Shield	Sq. Yd.	272		272
Concrete Superstructure	Cu. Yd.	15.3		15.3
Protective Coat	Sq. Yd.	42		42
Reinforcement Bars, Epoxy Coated	Pound	2,420		2,420
Bar Splicers	Each	24		24
Preformed Joint Strip Seal	Foot	111		111
Granular Backfill For Structures	Cu. Yd.		3	3
Controlled Low-Strength Material	Cu. Yd.	1.8		1.8
Cleaning and Painting Exposed Rebar	Sq. Ft.	56		56
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.		10	10
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	26		26
Deck Slab Repair (Partial)	Sq. Yd.	2		2
Relocating Name Plates	Each	1		1

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details are relative to the 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 variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Joint openings shall be adjusted according to Art. 520.04 in the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.
4. Expansion joints shall be fabricated to conform to the existing cross slopes of the bridge.
5. Existing reinforcement bars extending into the removed area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
6. The Contractor shall use extreme care during concrete removal so as to not damage the Steel Beams.
7. The name plate shall be removed, salvaged, and saved for reinstallation. Work for removal, salvaging, and reinstallation shall be paid for as Relocating Name Plates.

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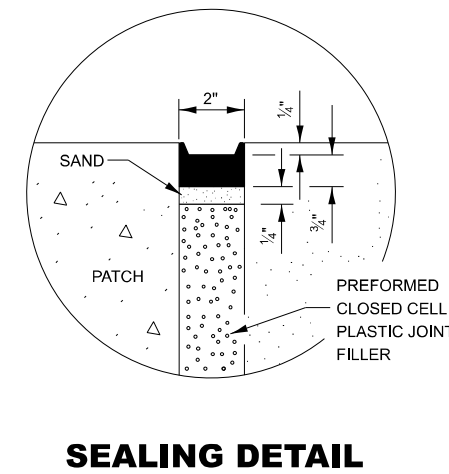
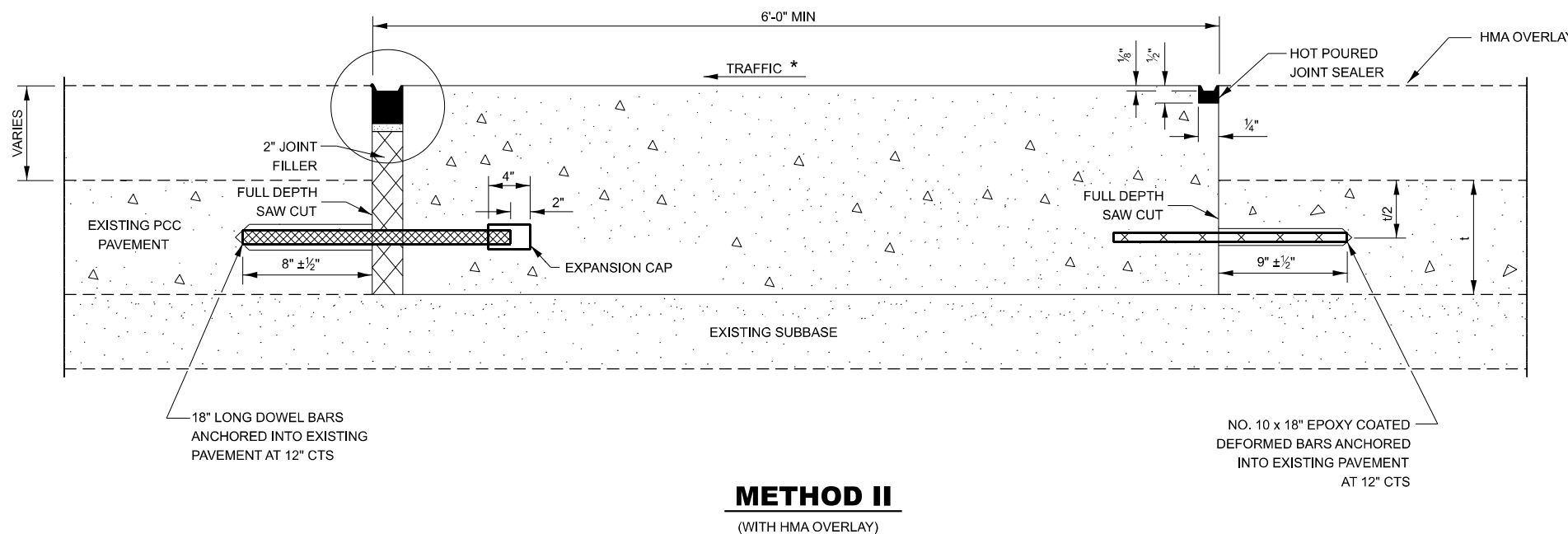
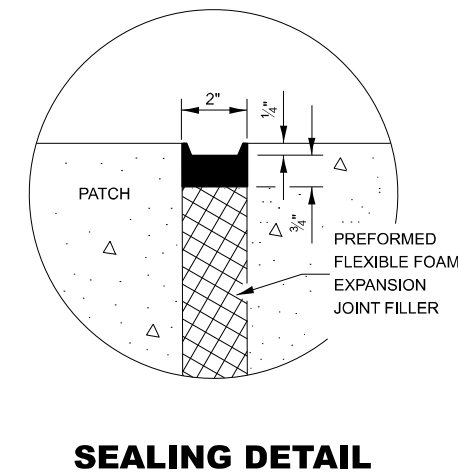
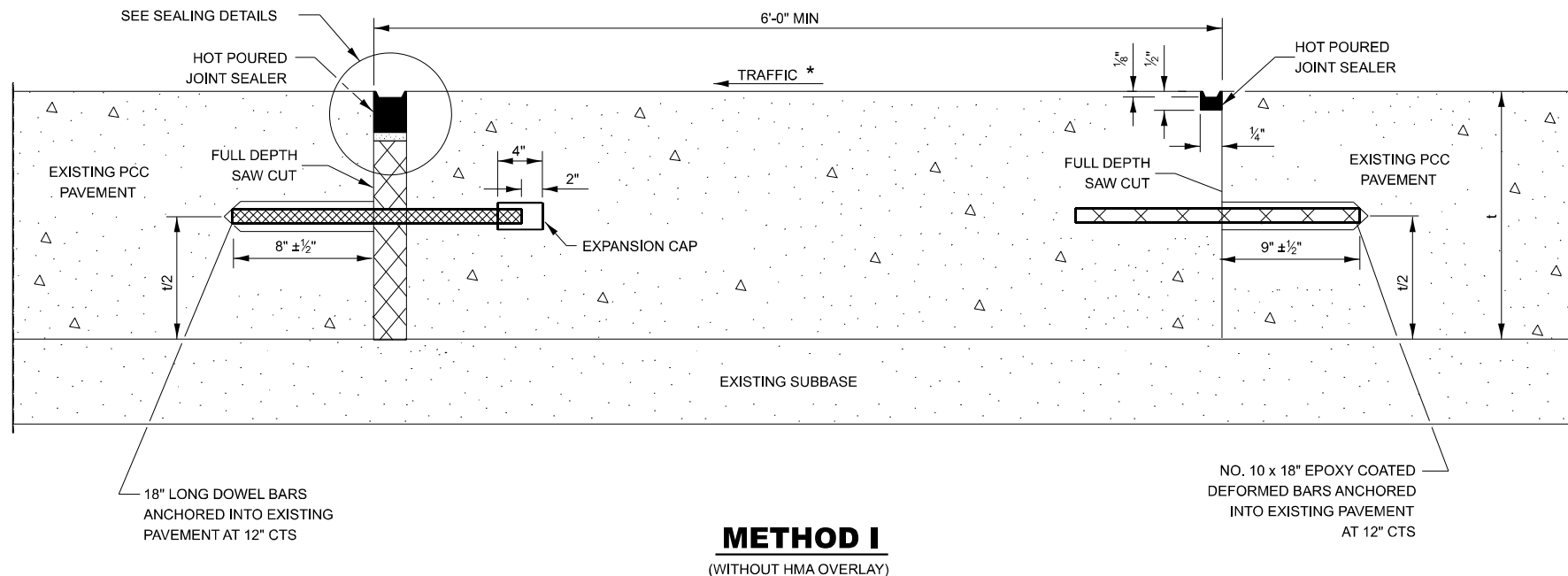
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	DRAWN - IF	REVISED -
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PLOT DATE = 10/9/2024	DATE - October 10, 2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
STRUCTURE NO. 006-0056**

SCALE: SHEET 2 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	33	20
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				



**NOTE**

\* WHEN RE-ESTABLISHING A TRANSVERSE EXPANSION JOINT ON A TWO-WAY ROAD, REVERSE THE ORIENTATION OF THE DOWEL BARS WITH RESPECT TO TRAFFIC FOR ONE OF THE PATCHES SUCH THAT THE JOINT WILL BE CONTINUOUS ACROSS BOTH LANES.

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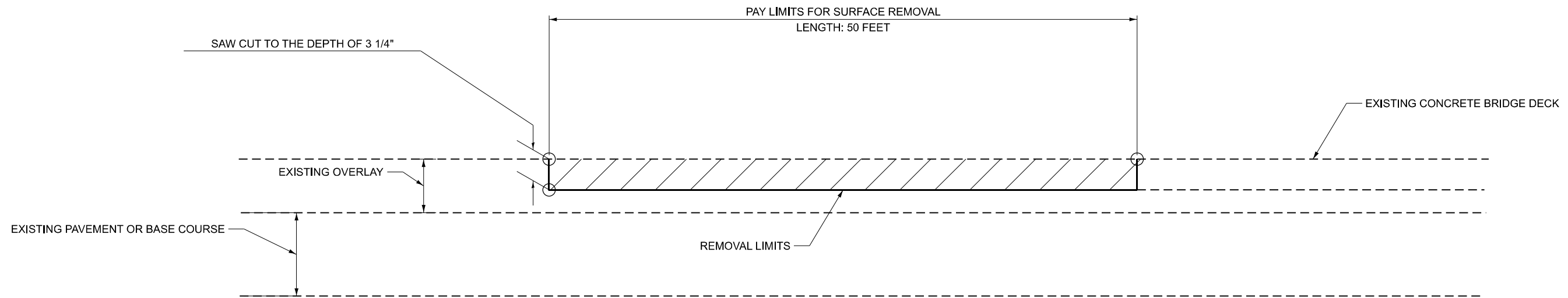
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PLOT DATE = 10/18/2024	DATE - 10/18/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CLASS B PATCH DETAIL

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	21
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				



**DUAL LIFT OVERLAY WITH EQUIVALENT DEPTH  
HOT-MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO PROPOSED BRIDGE ABUTMENT**

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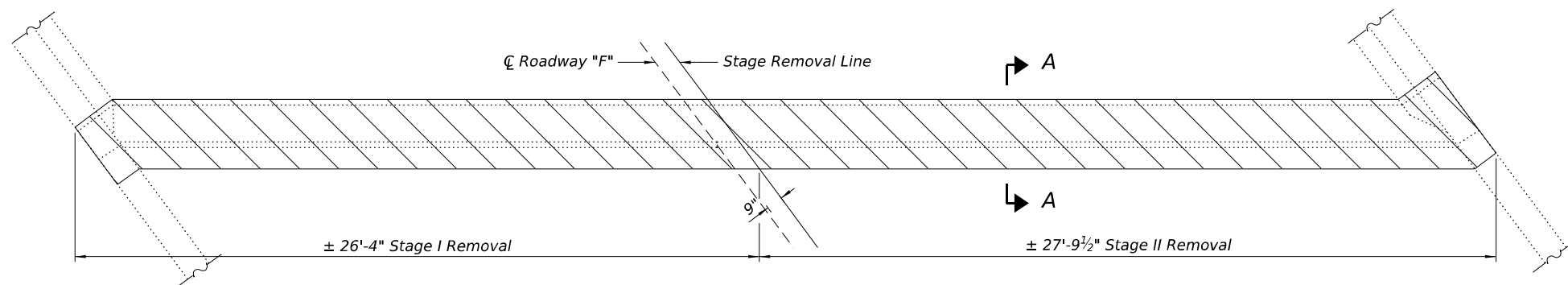
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

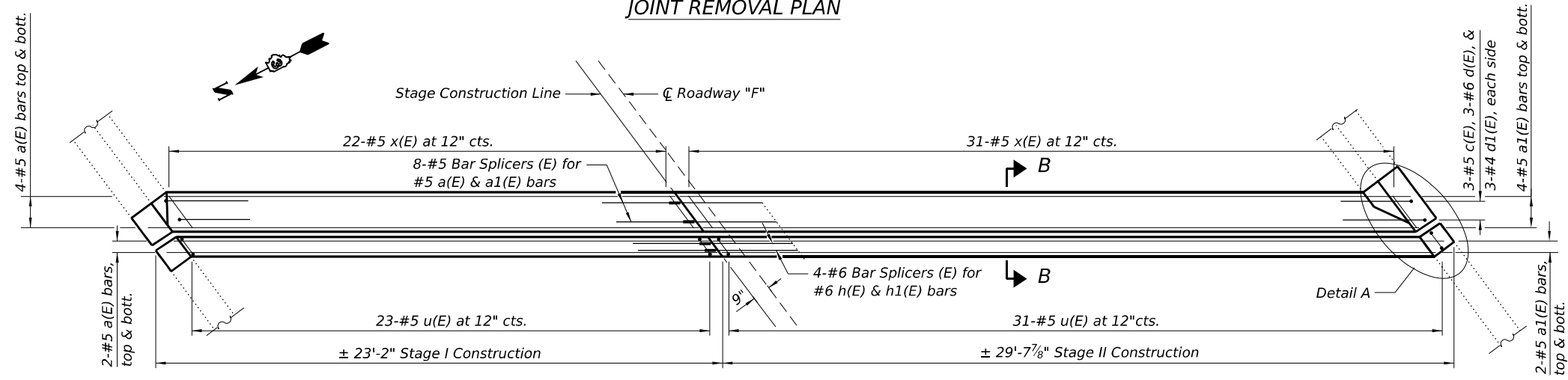
**MISCELLANEOUS DETAILS**

SCALE: NOT TO SCALE SHEET 1 OF 1 SHEETS STA. TO STA.

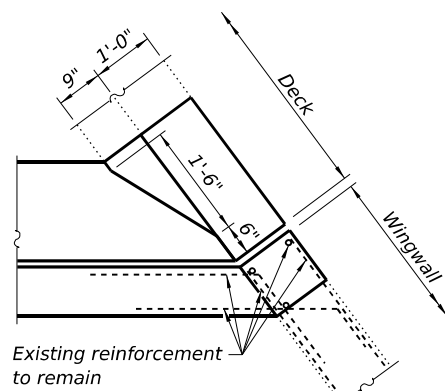
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180	(06-2HB-4)BRR	BUREAU	37	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66P33	



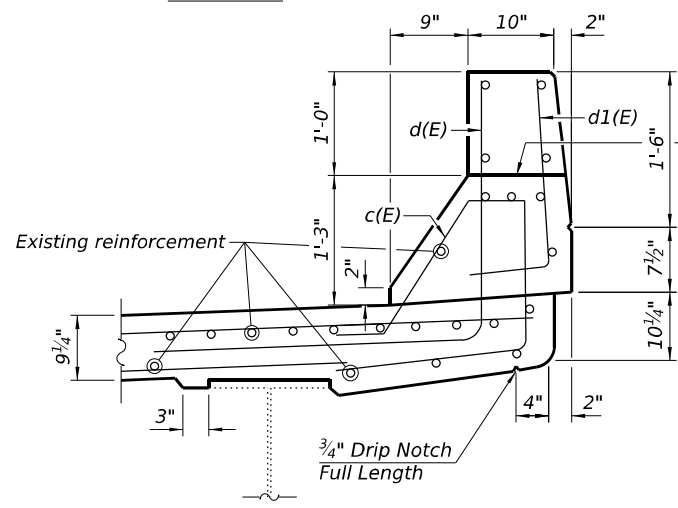
**JOINT REMOVAL PLAN**



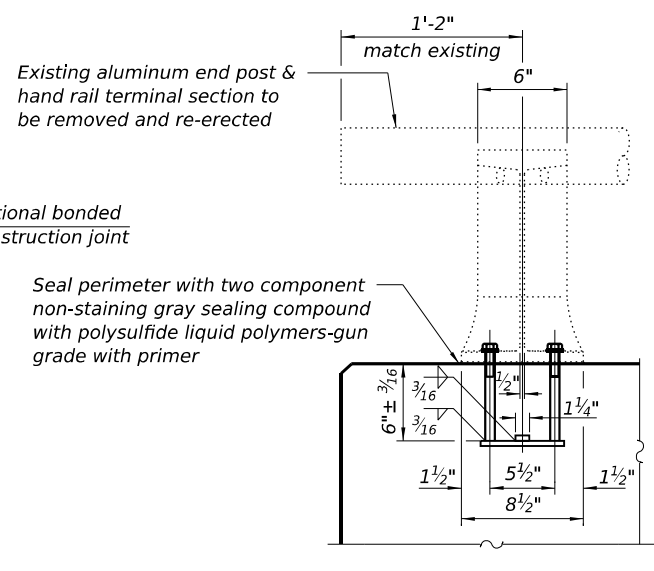
**PROPOSED JOINT PLAN**



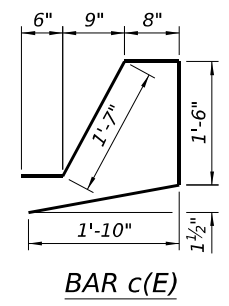
**DETAIL A**



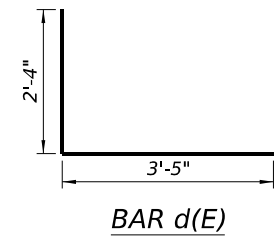
**SECTIONS THRU PARAPET AT JOINT**



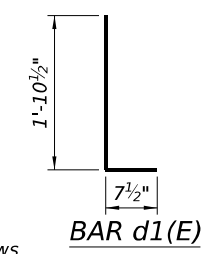
**RAIL POST DETAILS**



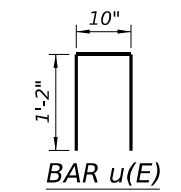
**BAR c(E)**



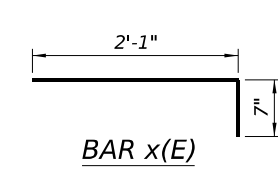
**BAR d(E)**



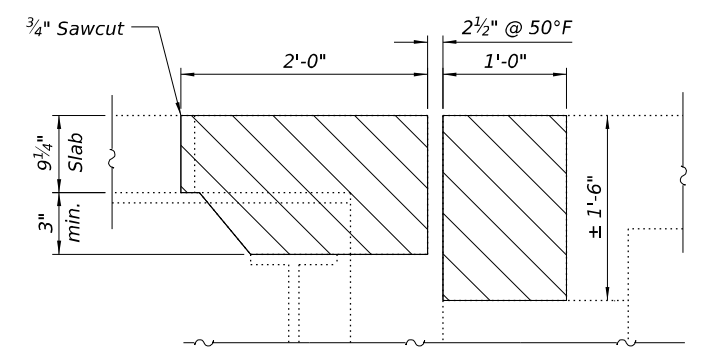
**BAR d1(E)**



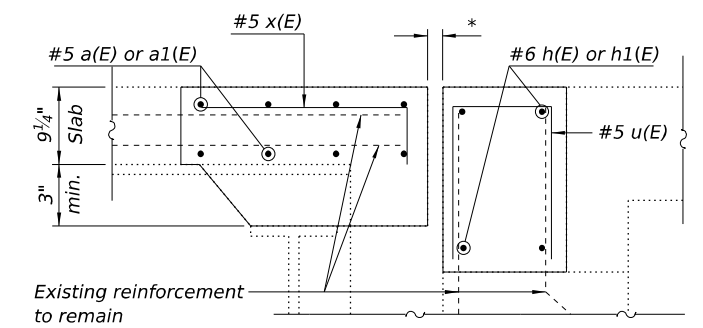
**BAR u(E)**



**BAR x(E)**



**SECTION A-A**  
(At right angles to abutment)



**SECTION B-B**  
(At right angles to abutment)

\* See Preformed Joint Strip Seal Details for opening dimension.

**LEGEND**

Concrete Removal

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	8	#5	22'-3"	—
a1(E)	8	#5	29'-7"	—
c(E)	6	#4	6'-1"	└
d(E)	6	#6	5'-9"	└
d1(E)	6	#4	2'-6"	└
h(E)	4	#6	22'-3"	—
h1(E)	4	#6	29'-7"	—
u(E)	54	#5	3'-2"	U
x(E)	53	#5	2'-8"	└
Concrete Removal			Cu. Yd.	7.3
Concrete Superstructure			Cu. Yd.	7.3
Reinforcement Bars, Epoxy Coated			Pound	1,160
Bar Splicers			Each	12

- Notes:
- Existing horizontal bars in parapet and existing longitudinal bars in slab shall remain and be incorporated into the new construction.
  - Rail shall be removed and re-erected as necessary to allow structure modifications. Cost included in Concrete Removal.
  - Trim a(E) and a1(E) bars as necessary to fit.

MODEL: SN 006-0056 - 005\_Expansion Joint Replacement (Sheet) FILE NAME: L:\DOT\22004869-0001\_S\006-0056-005-Expansion Joint Replacement Details.dgn



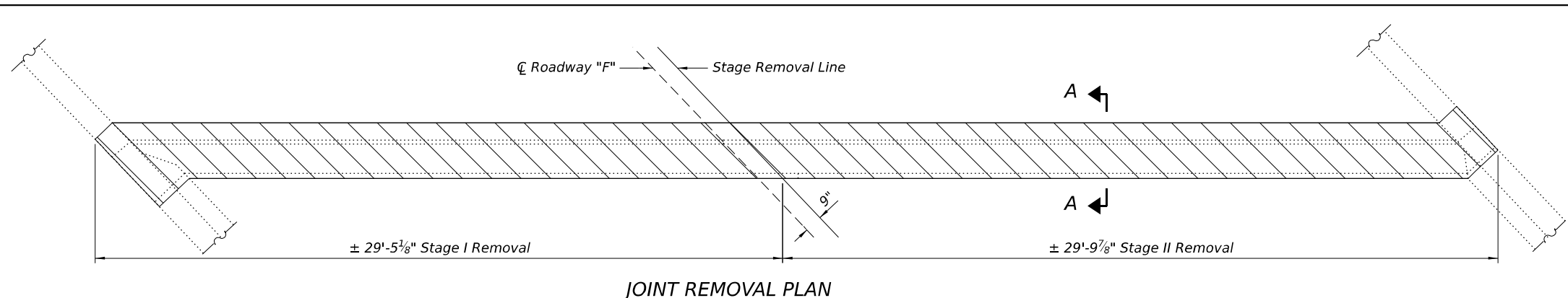
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

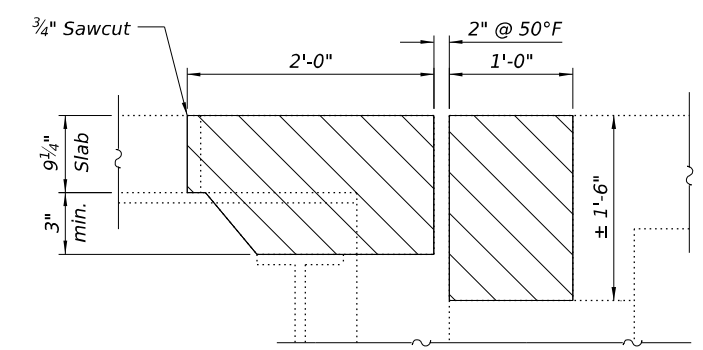
**WEST EXPANSION JOINT REPLACEMENT DETAILS**  
**STRUCTURE NO. 006-0056**

SCALE: SHEET 5 OF 15 SHEETS STA. TO STA.

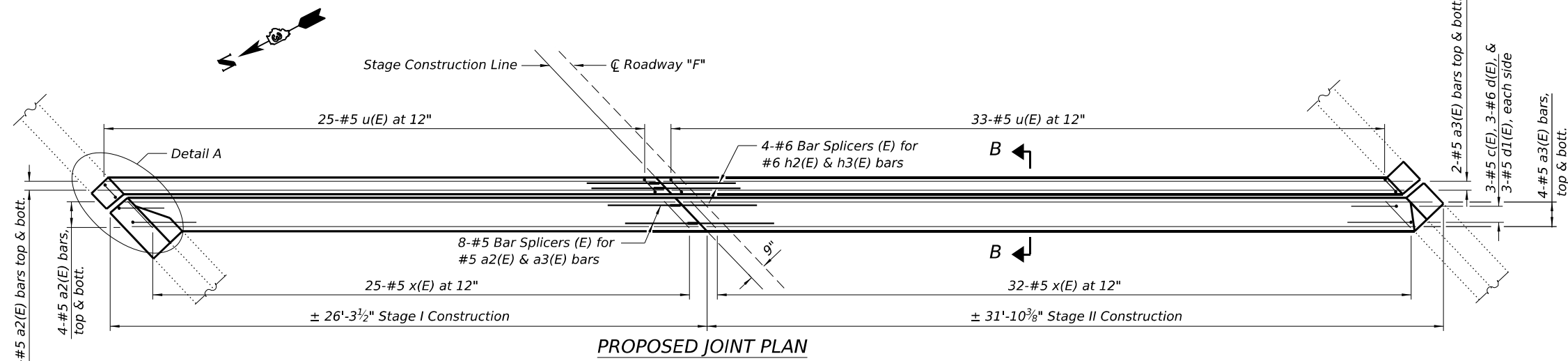
F.A.I. RTE. 180	SECTION (06-2HB-4)BRR	COUNTY BUREAU	TOTAL SHEETS 33	SHEET NO. 23
CONTRACT NO. 66P33			ILLINOIS FED. AID PROJECT	



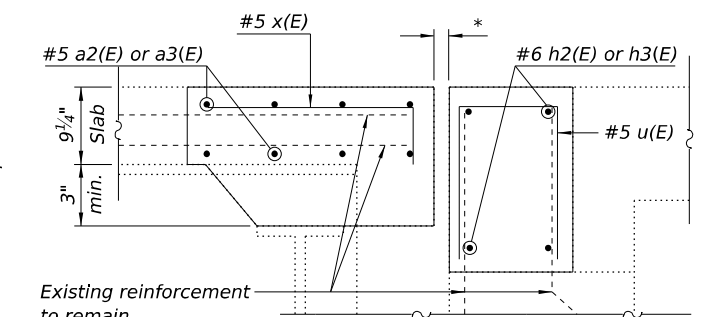
**JOINT REMOVAL PLAN**



**SECTION A-A**  
(At right angles to abutment)

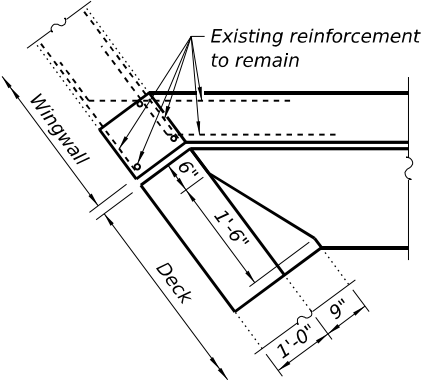


**PROPOSED JOINT PLAN**

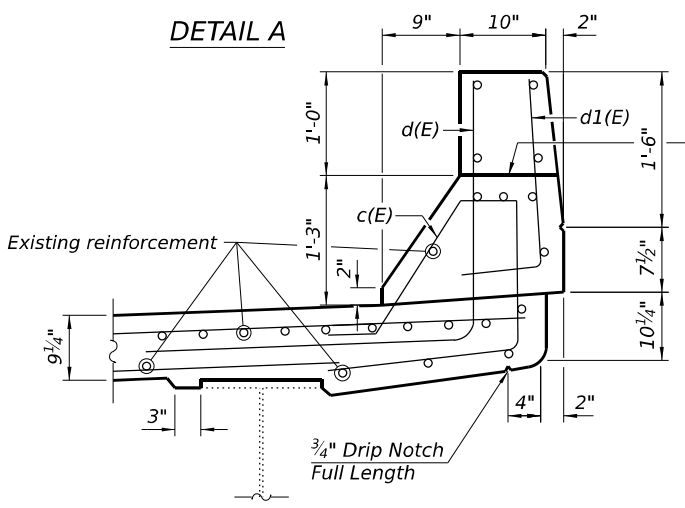


**SECTION B-B**  
(At right angles to abutment)

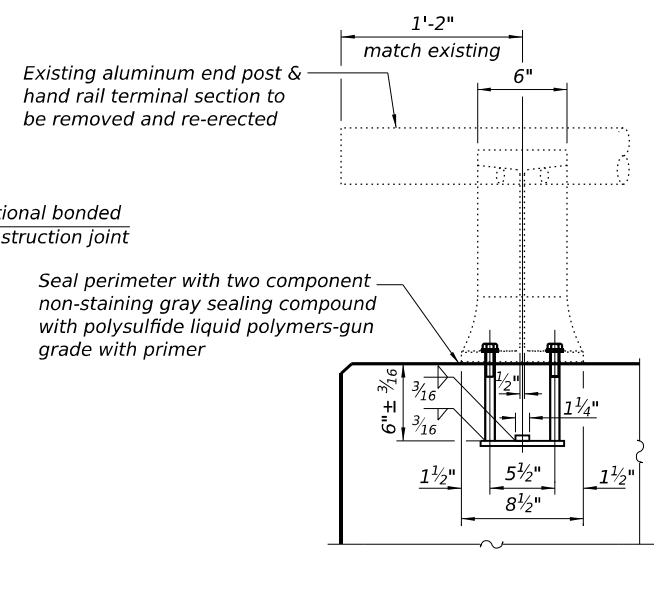
\* See Preformed Joint Strip Seal Details for opening dimension.



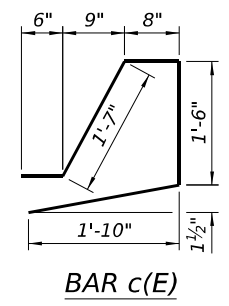
**DETAIL A**



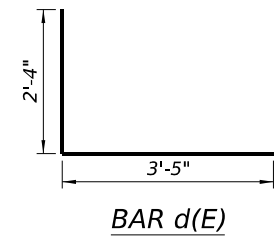
**SECTIONS THRU PARAPET AT JOINT**



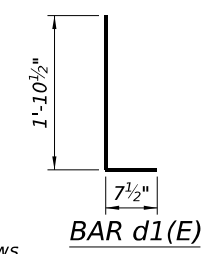
**RAIL POST DETAILS**



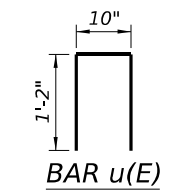
**BAR c(E)**



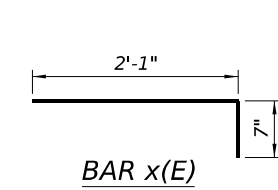
**BAR d(E)**



**BAR d1(E)**



**BAR u(E)**



**BAR x(E)**

**LEGEND**

Concrete Removal

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	8	#5	24'-7"	
a3(E)	8	#5	32'-7"	
c(E)	6	#4	6'-1"	
d(E)	6	#6	5'-9"	
d1(E)	6	#4	2'-6"	
h2(E)	4	#6	24'-7"	
h3(E)	4	#6	32'-7"	
u(E)	58	#5	3'-2"	
x(E)	57	#5	2'-8"	
Concrete Removal			Cu. Yd.	8.0
Concrete Superstructure			Cu. Yd.	8.0
Reinforcement Bars, Epoxy Coated			Pound	1,260
Bar Splicers			Each	12

- Notes:
- Existing horizontal bars in parapet and existing longitudinal bars in slab shall remain and be incorporated into the new construction.
  - Rail shall be removed and re-erected as necessary to allow structure modifications. Cost included in Concrete Removal.
  - Trim a2(E) and a3(E) bars as necessary to fit.

MODEL: SN 006-0056 - 005\_Expansion Joint Replacement (Sheet)  
FILE NAME: L:\DOT\220046869-0001\_S\006-0056-0056-0001\_CADD Data\Bridge\CADD Sheets\SN 006-0056 - 006\_East Expansion Joint Replacement Details.dgn



USER NAME = dcochran  
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DRAWN - IF  
CHECKED - DAC/DH  
DATE - October 10, 2024

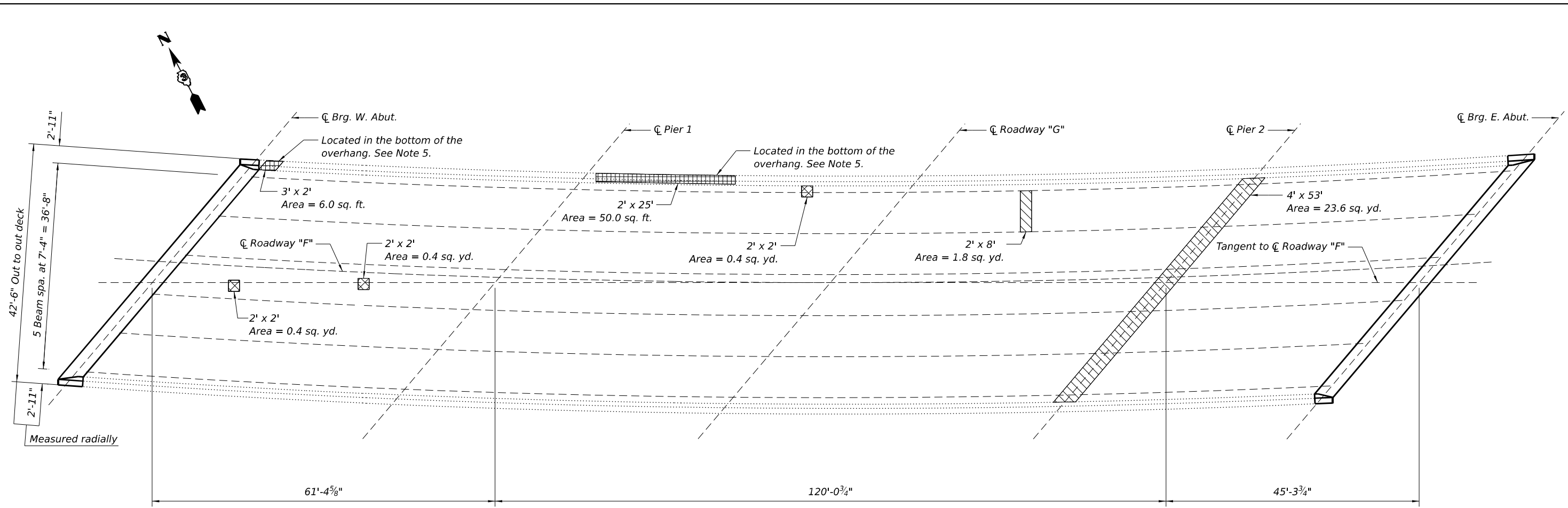
REVISD -  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EAST EXPANSION JOINT REPLACEMENT DETAILS**  
**STRUCTURE NO. 006-0056**




SCALE: SHEET 6 OF 15 SHEETS STA. TO STA.

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
180 (06-2HB-4)BRR BUREAU 33 24  
CONTRACT NO. 66P33  
ILLINOIS FED. AID PROJECT



DECK PLAN

Legend

-  Cleaning and Painting Exposed Rebar
-  Deck Slab Repair (Full Depth, Type II)
-  Deck Slab Repair (Partial Depth)

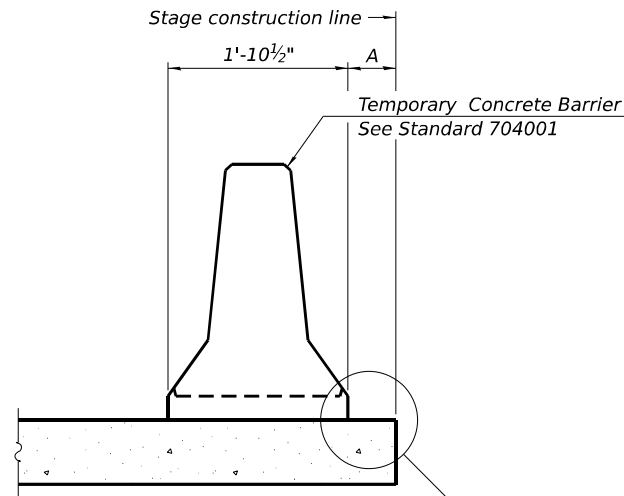
- Notes:
1. The Engineer shall show actual locations of deck repairs on As-built Plans.
  2. Protective Shield shall be placed above the travel lanes and paved shoulders.
  3. See sheets 5 and 6 of 15 for joint replacement details.
  4. Apply Protective Coat to all new surface areas of Concrete Superstructure.
  5. Area to be cleaned includes exposed rebar and any additional rebar that is further exposed as a result of removal of spalled concrete. See Special Provision for Cleaning and Painting Exposed Rebar.
  6. For Deck Slab Repair, the cement concrete shall be restricted to class PP-1, PP-2, and BS concrete.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Coat	Sq. Yd.	42
Cleaning and Painting Exposed Rebar	Sq. Ft.	56
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	26
Deck Slab Repair (Partial Depth)	Sq. Yd.	2

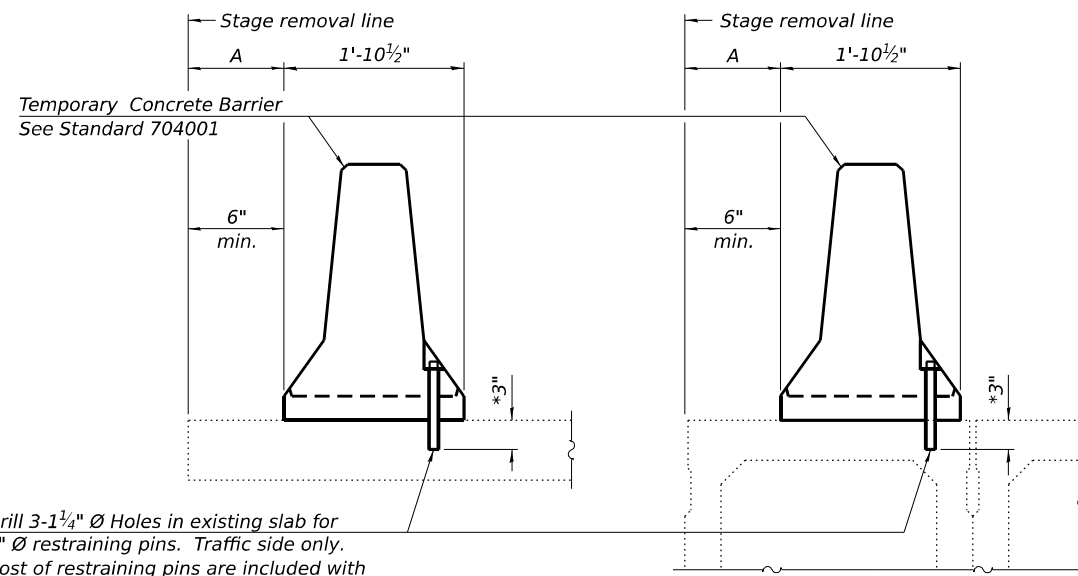
MODEL: SN 006-0056-003\_Deck Patching Plan (Sheet)  
 FILE NAME: L:\DOT\22004686-C001\_SN006-0056-003\_Deck Patching Plan.dgn  
 License No. 184-000613 Copyright CMT, Inc.





When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

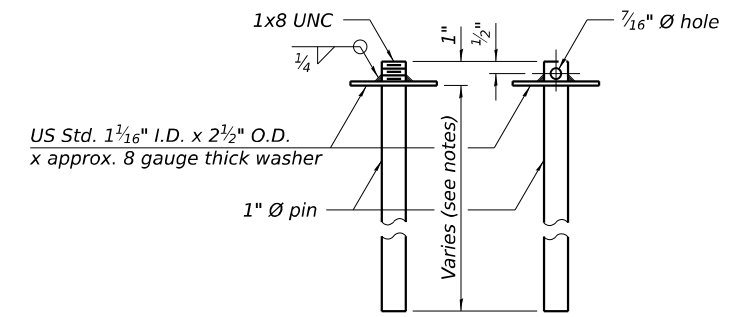
NEW SLAB OR NEW DECK BEAM



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

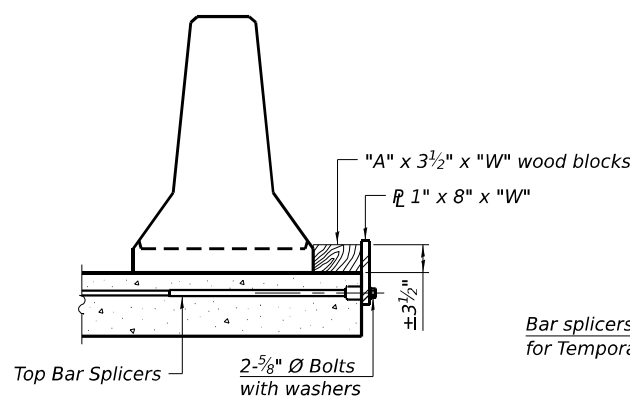
EXISTING SLAB

EXISTING DECK BEAM

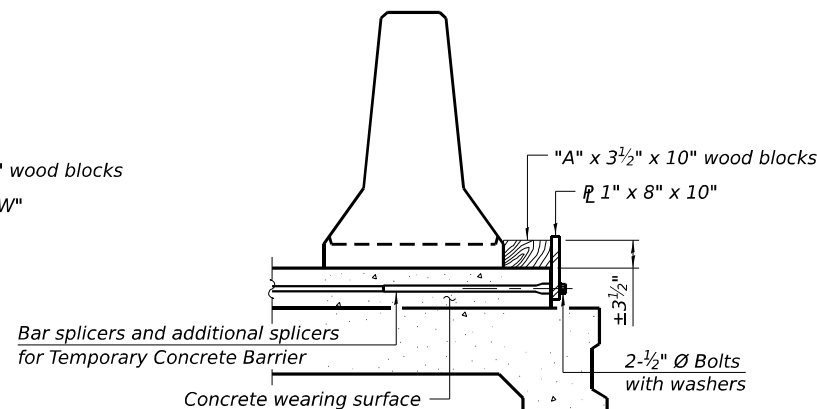


RESTRAINING PIN

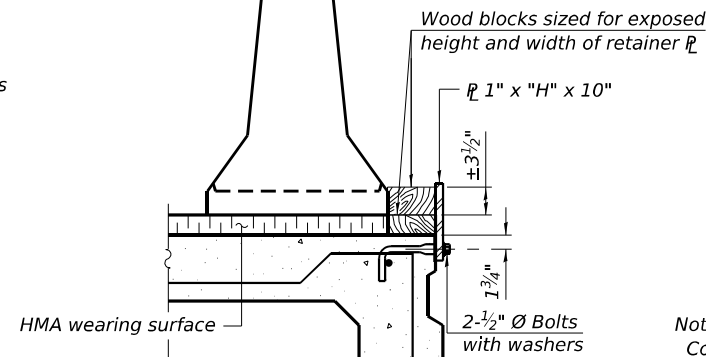
SECTIONS THRU SLAB OR DECK BEAM



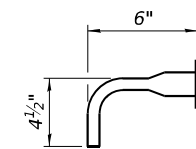
DETAIL I



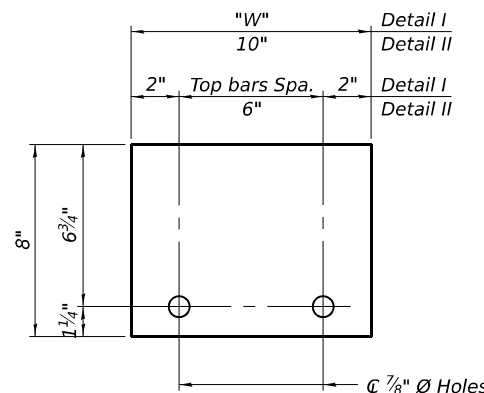
DETAIL II



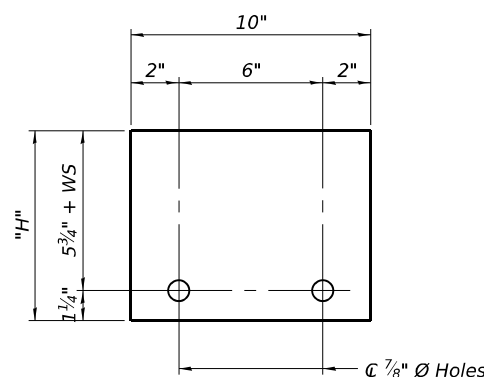
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



STEEL RETAINER  $\phi$  1" x "H" x 10"  
(Detail III)

Notes:  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate  $\zeta$  of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.  
 For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 15-15-2023

MODEL: SN 006-0056 - 004\_Temporary Concrete Barrier (Sheet)  
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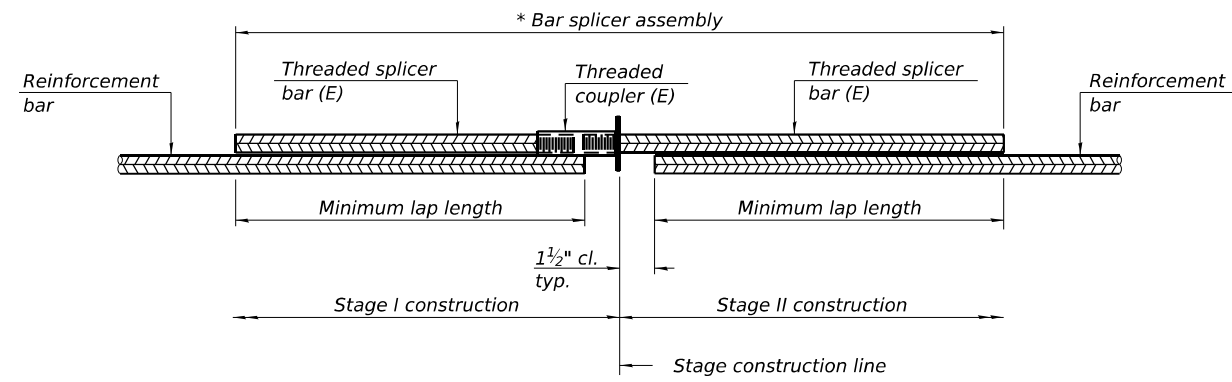
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DESIGNED -	IF
DRAWN -	IF
CHECKED -	DAC/DH
DATE -	October 10, 2024
REVISIONS	
REVISOR	
DATE	
REVISION	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
 STRUCTURE NO. 006-0056

SCALE: SHEET 4 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	26
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				



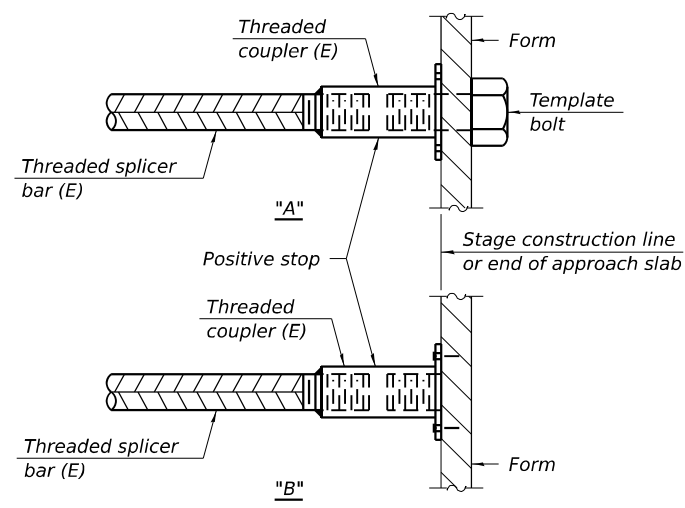
**STANDARD BAR SPLICER ASSEMBLY PLAN**

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

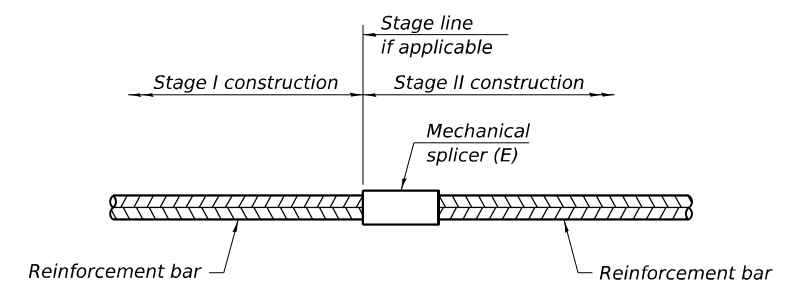
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
West Abutment	#5	8	3'-1"
East Abutment	#5	8	3'-1"
West Abutment	#6	4	4'-5"
East Abutment	#6	4	4'-5"



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

**Notes:**

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: S:\006-0056\_Br\_Splicer Assembly and Mechanical Splicer Details (Sheet)  
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BSD-1

5-15-2023



USER NAME = dcochran	DESIGNED - IF	REVISED -
	DRAWN - IF	REVISED -
	CHECKED - DAC/DH	REVISED -
PLOT DATE = 10/9/2024	DATE - October 10, 2024	REVISED -

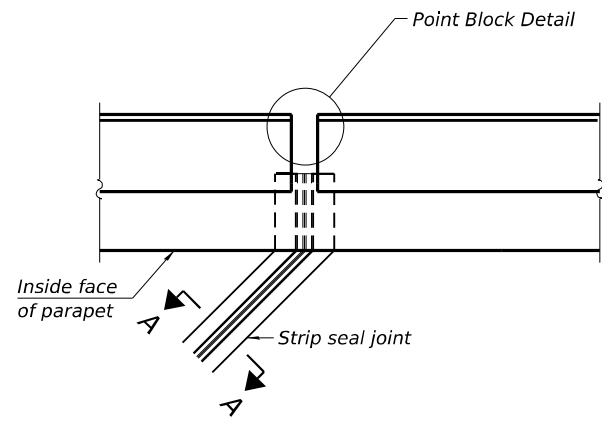
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 006-0056**

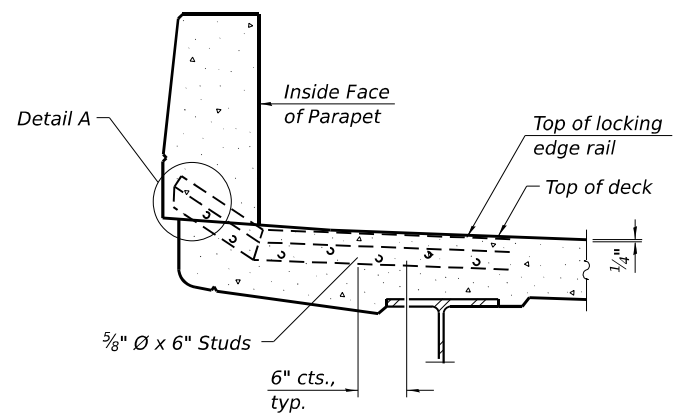
SCALE: SHEET 9 OF 15 SHEETS STA. TO STA.

F.A.I. RTE. 180	SECTION (06-2HB-4)BRR	COUNTY BUREAU	TOTAL SHEETS 33	SHEET NO. 27
CONTRACT NO. 66P33			ILLINOIS FED. AID PROJECT	

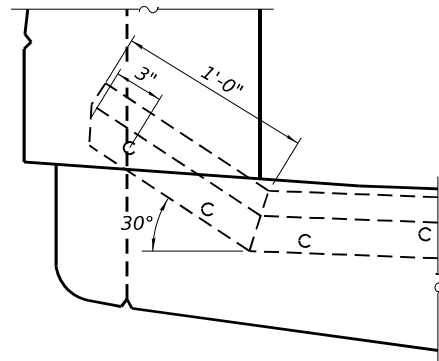




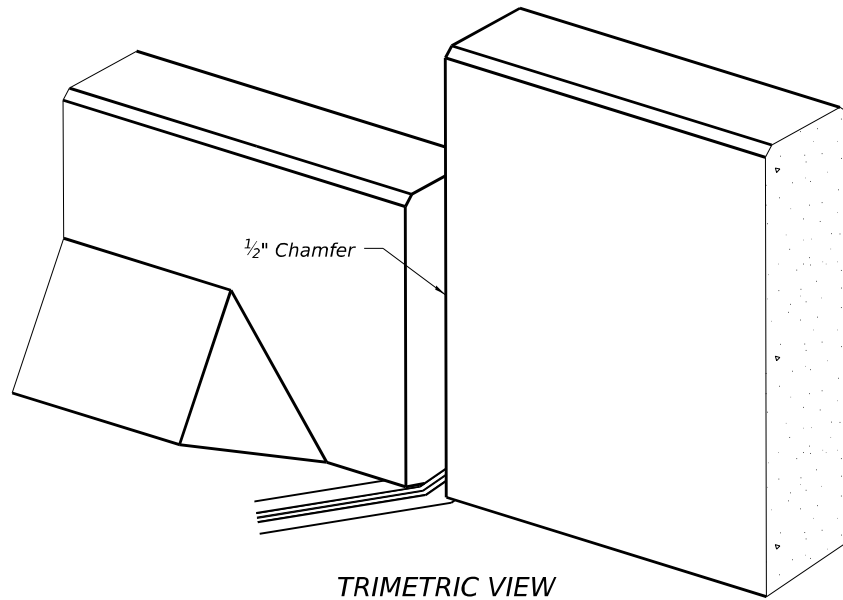
PLAN AT PARAPET



SECTION AT PARAPET

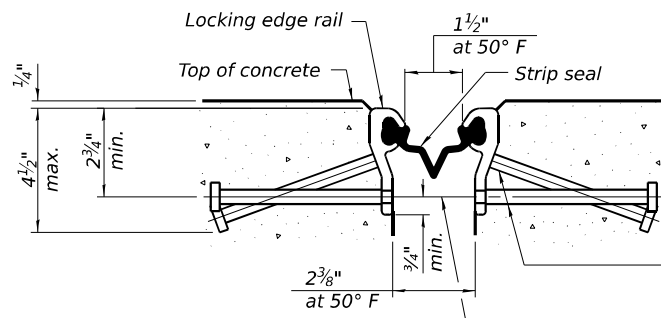


DETAIL A



TRIMETRIC VIEW

**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. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.  
 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.  
 Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.  
 39" constant slope barrier shown, 44" constant slope barrier similar as noted.  
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



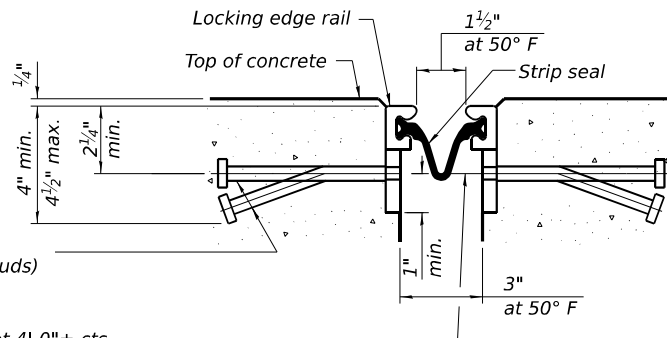
SHOWING ROLLED RAIL JOINT

\* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

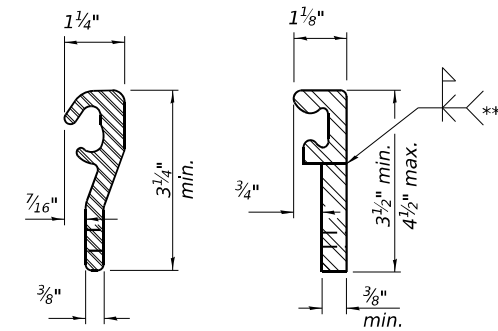
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0" ± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

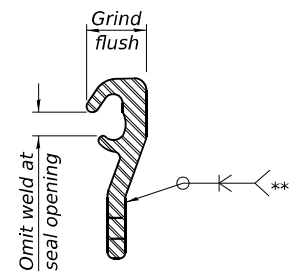


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	111

MODEL: SN 006-0056\_Preformed Joint Strip Seal (Sheet) FILE NAME: L:\DOT\22004869-0001\_S\006-0056\66900\CADD Data\Bridge\CADD Sheets\SN 006-0056-007\_Preformed Joint Strip Seal.dgn



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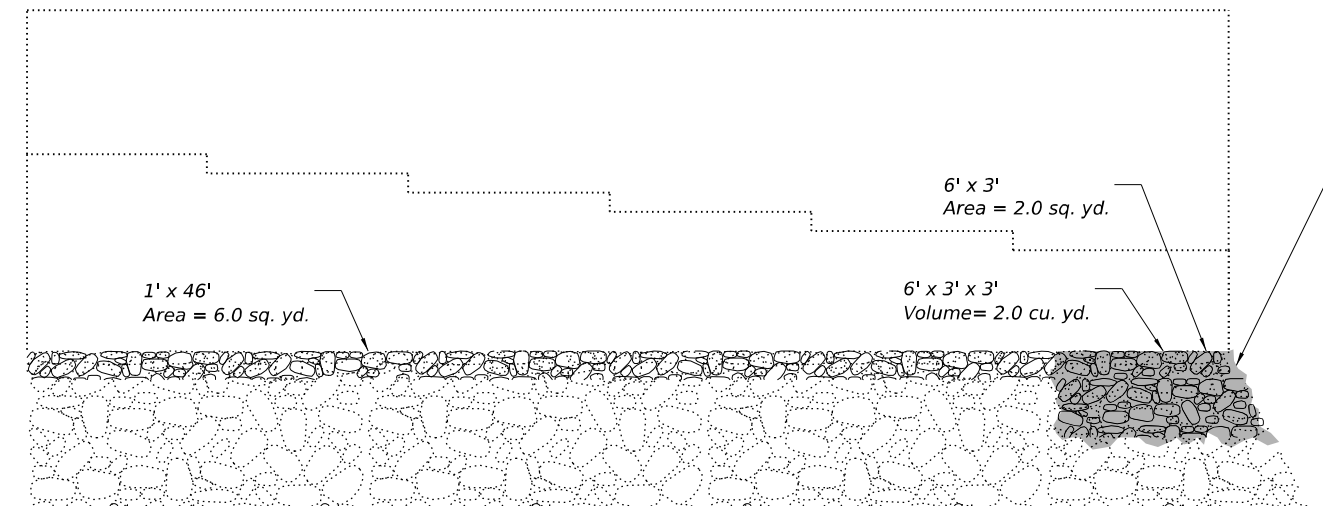
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL  
STRUCTURE NO. 006-0056

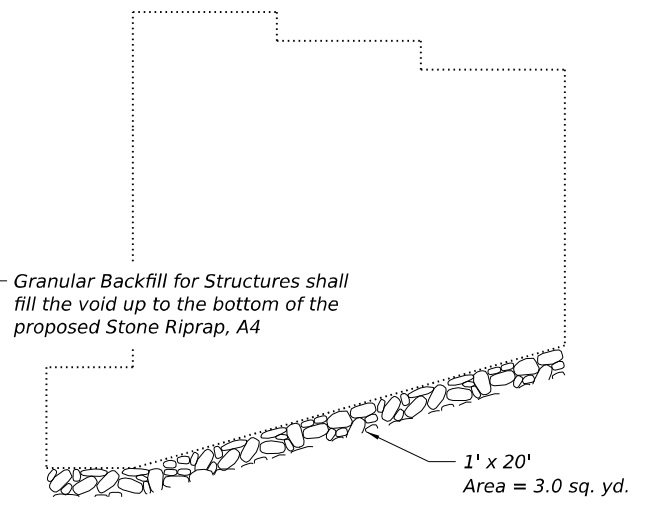
SCALE: SHEET 7 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	29
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				

MODEL: SN 006-0056-Abutment Repairs (Sheet)  
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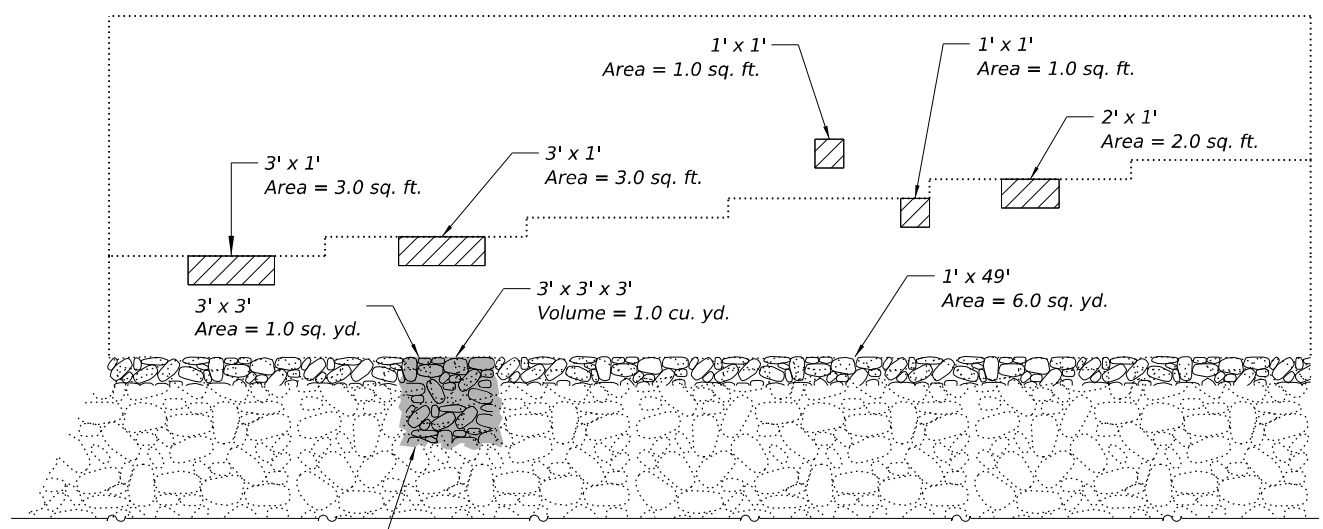


**WEST ABUTMENT ELEVATION**



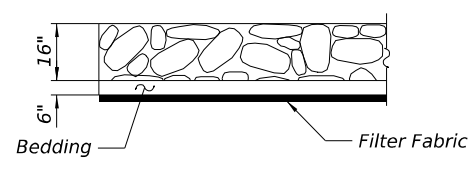
**NORTHWEST WINGWALL ELEVATION**

Granular Backfill for Structures shall fill the void up to the bottom of the proposed Stone Riprap, A4



**EAST ABUTMENT ELEVATION**

Granular Backfill for Structures shall fill the void up to the bottom of the proposed Stone Riprap, A4



**RIPRAP DETAILS**

- Legend**
- Filter Fabric and Stone Riprap, Class A4
  - Granular Backfill for Structures
  - Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq. Yd.	18
Filter Fabric	Sq. Yd.	18
Granular Backfill for Structures	Cu. Yd.	3
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	10

**Note:**  
 Repair of the substructure shall include, but may not be limited to the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.



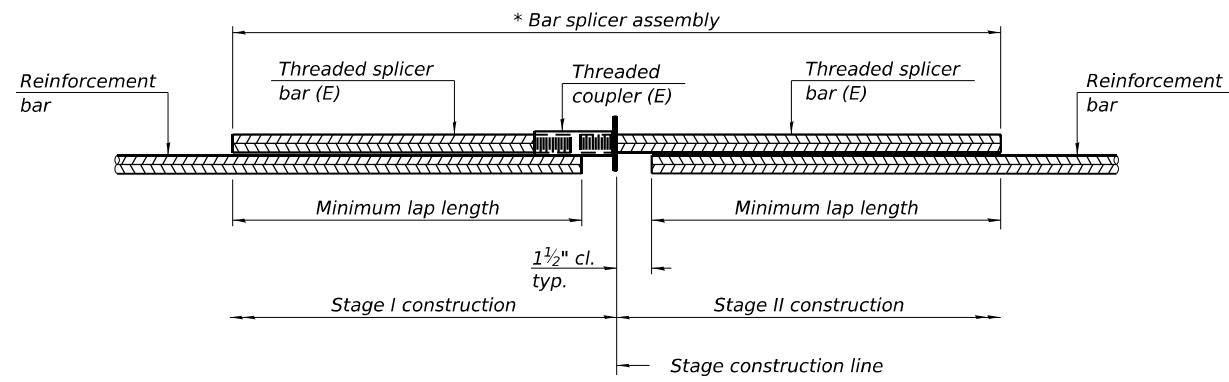
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	DRAWN - IF	REVISED -
	CHECKED - DAC/DH	REVISED -
PLOT DATE = 10/9/2024	DATE - October 10, 2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENT REPAIRS  
 STRUCTURE NO. 006-0056**

SCALE: SHEET 8 OF 15 SHEETS STA. TO STA.

F.A.I. RTE. 180	SECTION (06-2HB-4)BRR	COUNTY BUREAU	TOTAL SHEETS 37	SHEET NO. 30
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				



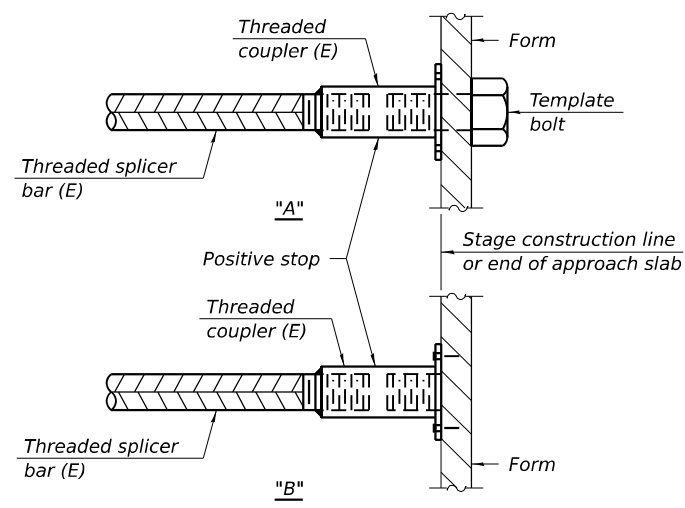
**STANDARD BAR SPLICER ASSEMBLY PLAN**

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

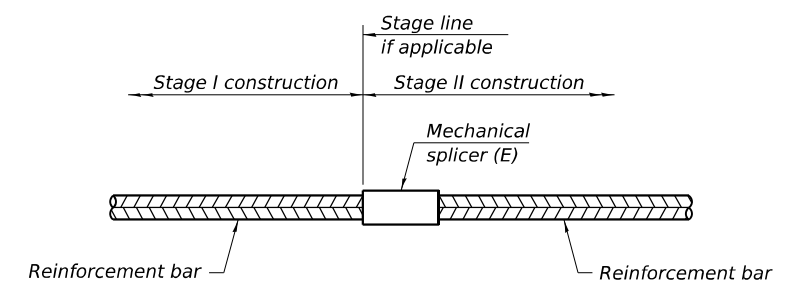
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
West Abutment	#5	12	3'-1"
East Abutment	#5	12	3'-1"



**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: S:\006-0056\_Br\_Splicer Assembly and Mechanical Splicer Details (Sheet)  
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BSD-1

5-15-2023



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	DRAWN - IF	REVISED -
	CHECKED - DAC/DH	REVISED -
PLOT DATE = 10/9/2024	DATE - October 10, 2024	REVISED -

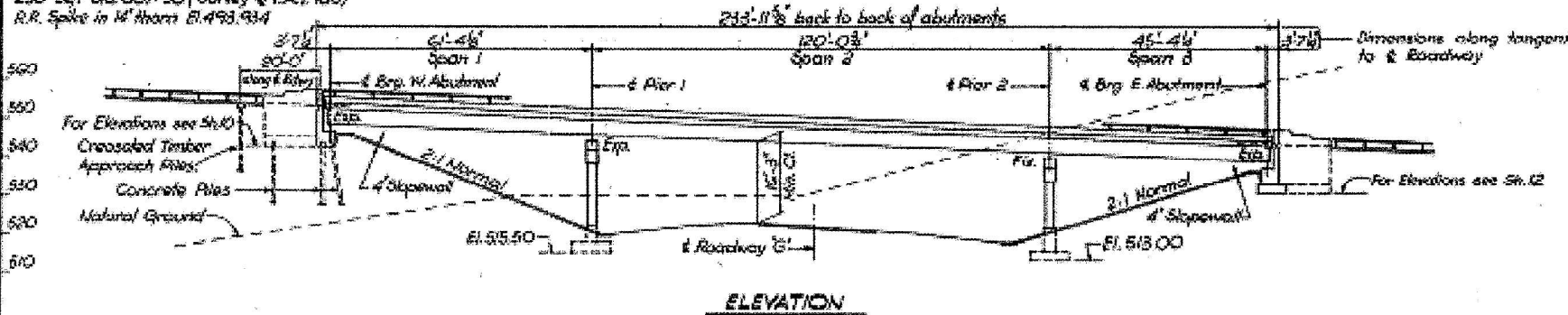
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 006-0056**

SCALE: SHEET 9 OF 15 SHEETS STA. TO STA.

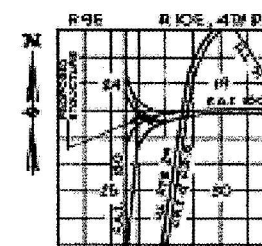
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	31
CONTRACT NO. 66P33			ILLINOIS FED. AID PROJECT	

Branch Mark No. 15  
 250' left Sta. 607+50 (Survey & E.A.I. 180)  
 R.R. Spike in N. Abut. El. 493.934



**APPROACH PILE DATA**

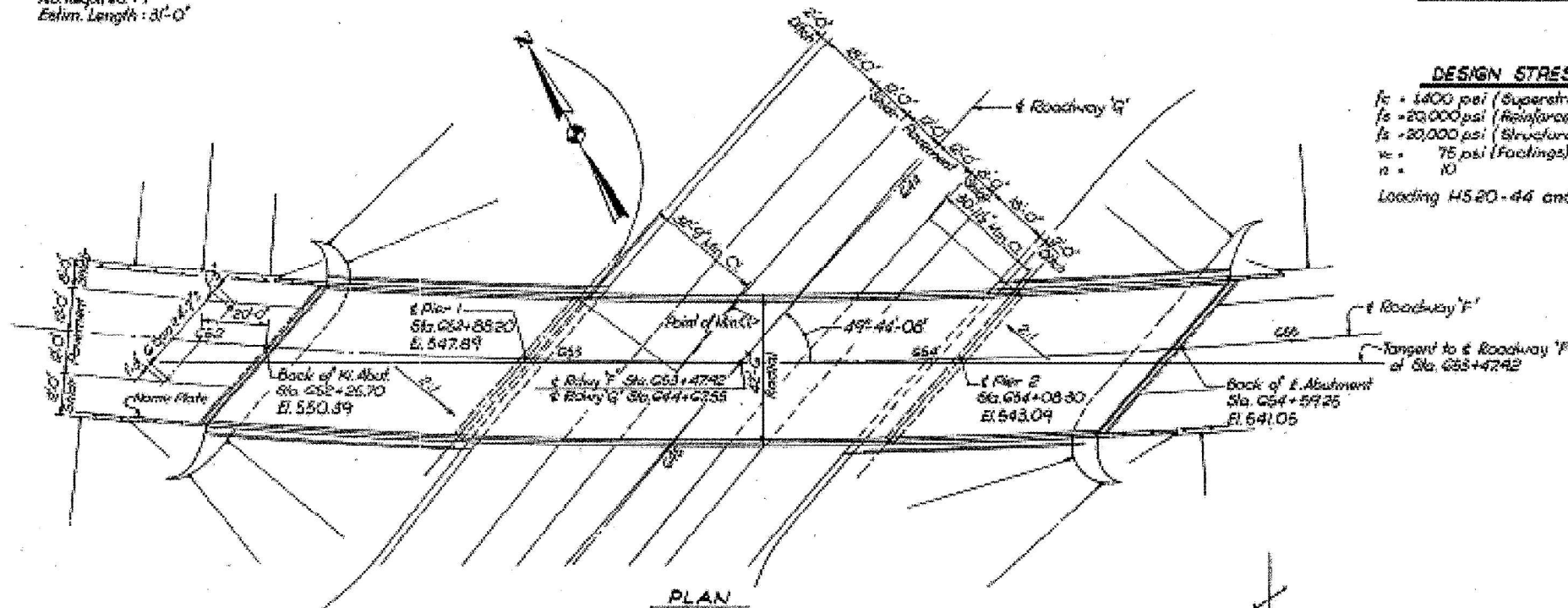
Type: Crossed Timber  
 No. Required: 7  
 Estim. Length: 31'-0"



**LOCATION PLAN**

**DESIGN STRESSES**

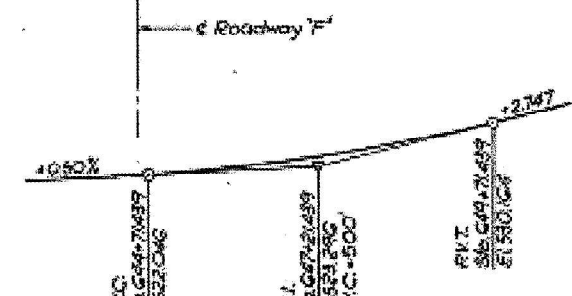
$f_c = 1400$  psi (Superstructure & Substructure)  
 $f_s = 20,000$  psi (Reinforcement)  
 $f_s = 20,000$  psi (Structural Steel)  
 $w = 75$  psi (Footings)  
 $n = 10$   
 Loading HS20-44 and alternate



**PLAN**

**HORIZONTAL CURVE DATA**

Roadway 'F'	Roadway 'G'
PI = 633+08.520	PI = 635+02.701
$\Delta = 91^\circ 36' 27''$	$\Delta = 89^\circ 22' 21''$
$D = 5^\circ 00' 00''$	$D = 5^\circ 00' 00''$
$R = 1909.859'$	$R = 1909.859'$
$T = 1924.209'$	$T = 1889.076'$
$L = 3053.553'$	$L = 2979.102'$
$E = 829.790'$	$E = 770.433'$
$PC = 631+44.817$	$PC = 636+73.626$
$PT = 633+47.900$	$PT = 636+52.728$



**PROFILE & ROADWAY 'F'**

**PROFILE & ROADWAY 'G'**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
E. A. I. - 180	06-2HB-4	BUREAU	103	9

**GENERAL NOTES**

Course aggregate to be used in paving handrails and end post must be absolutely free of chert, flint, limestone, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.

Slope Wall shall be reinforced with welded wire fabric 4" x 6" mesh, weighing 500 lbs per 100 Sq. Ft.

All reinforcement bars shall be lapped 20 diameters unless otherwise shown.

All structural steel shall conform to A.S.T.M. specifications Designation A-36.

Expansion guards shall be fabricated and erected in accordance with Article 51.13 (d) of the Standard Specifications.

The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted.

Expansion guards are included in the quantity of Structural Steel. Estimated weight 2020 lbs.

Concrete piles at abutments shall be driven to holes measured through the embankment in accordance with Article 66.9 (c) of the Standard Specifications.

The Contractor shall drive one (1) test pile in a permanent location at each of the following locations: N. Abutment.

The test pile for each location must be driven before ordering the remainder of piles.

Excavation for portions of structures in the Embankments shall not be classified.

Except as otherwise provided, all Structural Steel shall receive one shop coat of lead lead paint and two field coats of paint. See Special Provisions for Field Paint.

All cross reference sheet numbers shown on the bridge plans are the numbers located in the lower right hand corner of each sheet.

All welding shall conform to the Standard Specifications for Welded Highway and Railway Bridges of the American Welding Society, AWS, E-20-GC.

All Field Connections Bolted, High Strength Steel Bolts 7/8", open holes 1 1/4" except as noted.

High Strength Steel Bolt Connections shall be in accordance with Article 24.5g of the Standard Specifications.

Anchor bolts shall be set before setting diaphragms over supports.

Permanent forms will not be permitted in forming the concrete floor. Volume 74.8, 854/8q Pl.

**TOTAL BILL OF MATERIAL**

Item	Unit	Superst	Substr.	Total
Class 'A' Foundation for Structures	Cu. Yds	-	480	480
Class 'X' Concrete	Cu. Yds	2330	2705	5035
Protective Coat	Sq. Yds	1063	-	1063
Furnishing & Erecting Structural Steel	Lbs	387,270	-	387,270
Reinforcement Bars	Lbs	28,650	43,200	71,850
Furnishing Crossed Timber Piles (30' to 36' 0")	Lin. Ft.	-	217	217
Driving Timber Piles	Lin. Ft.	-	217	217
Driving Concrete Piles	Lin. Ft.	-	392	392
Furnishing Concrete Piles	Lin. Ft.	-	392	392
Test Piles (Concrete)	Ea.	-	1	1
Name Plates	Ea.	-	1	1
Slope Wall Finish	Sq. Yds	-	772	772
Aluminum Handrail	Lin. Ft.	458	-	458
Bridge Seat Sealant*	Comp. Unit	-	1.54	1.54

\* At Abutments only.

BRIDGE NO. 8  
 STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS  
**GENERAL PLAN**  
 ROADWAY 'F' OVER ROADWAY 'G'  
 STATION 633+47.92  
 E. A. I. RT. 180 BUREAU COUNTY SECTION 06-2HB-4  
 H. W. LOCHNER, INC.  
 ENGINEERS  
 CHICAGO, ILLINOIS

APPROVED  
 FOR INFORMATION ONLY

DESIGNED BY: A.T.  
 DRAWN BY: E.C.  
 CHECKED BY: A.T.  
 APPROVED BY: K.A.

Reason: In Total Bill of Material, the bar quantity in Superst. of total changed from 77,350 to 120,550 and 43,200 to 28,650 respectively - 478' 0" AP

MODEL: Existing Plans 1 (Sheet)  
 FILE NAME: LINDOT2204869-CADD Sheets\SN:006-0056 - EX1 Existing Plans 1.dgn



USER NAME	DESIGNED	REVISION
doochran	IF	-
	IF	-
	DAC/DH	-
	-	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	TOTAL SHEETS
	10	OF	15 SHEETS

EXISTING PLANS  
 STRUCTURE NO. 006-0056

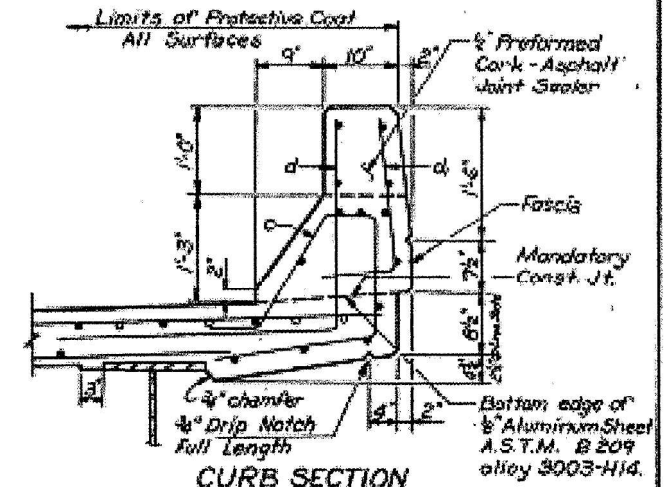
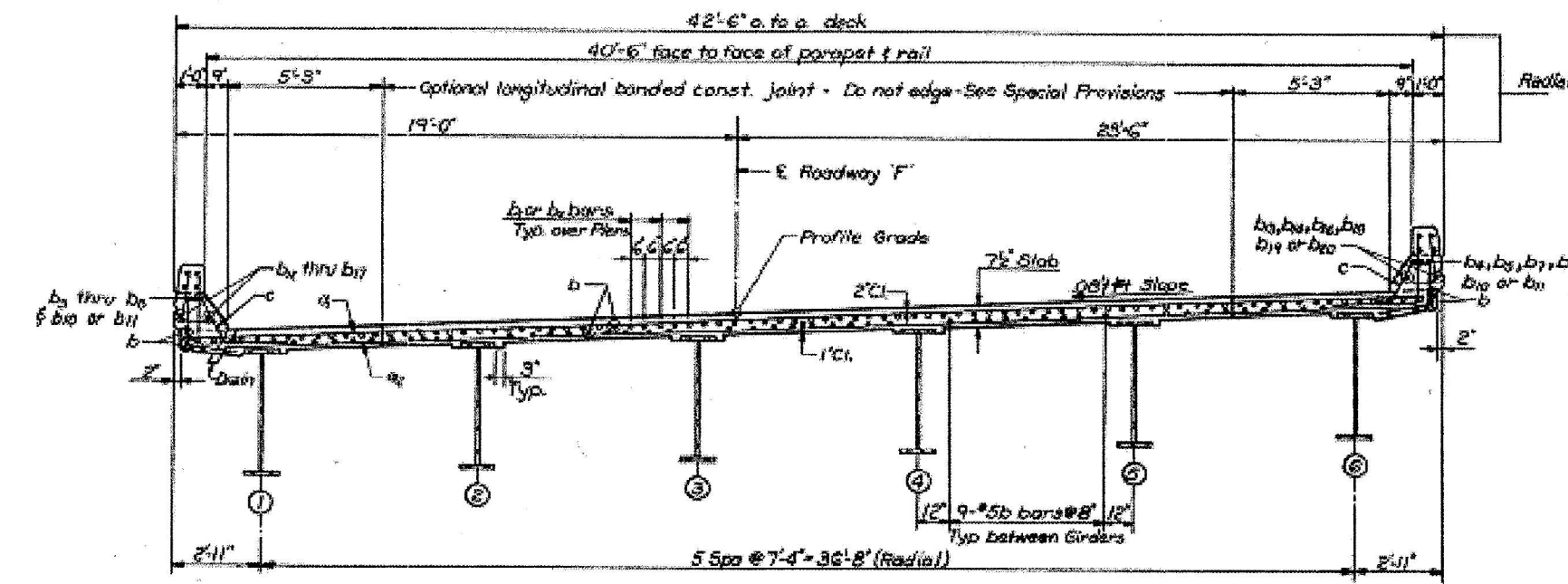
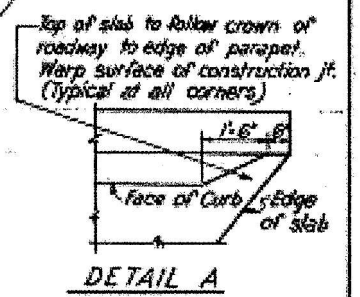
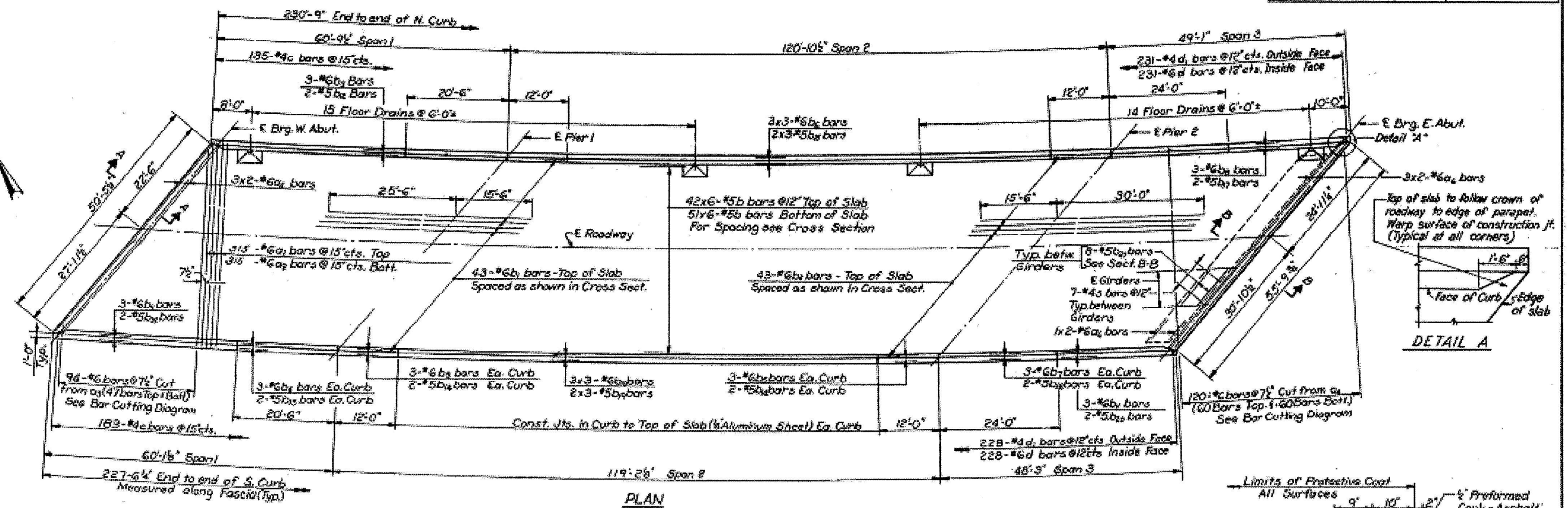
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	32

CONTRACT NO. 66P33  
 ILLINOIS FED. AID PROJECT



Note:  
Bars indicated thus 4E-#5 etc.  
Indicates 4E lines of bars with  
6 lengths per line.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. - 180	06-2HB-4	BUREAU	103	11
FED. ROAD BLDG. NO. 4	ILLINOIS	PROJECT		



APPROVED  
FOR STRUCTURAL PURPOSES ONLY  
E. W. LOCHNER, INC.  
REGISTERED PROFESSIONAL ENGINEER  
No. 10-2-207  
ILLINOIS

**NOTE**  
For Bill of Material see Sheet 4  
All clearances shall be 1/2\"/>

BRIDGE NO. 6  
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BLDGS.  
DIVISION OF HIGHWAYS  
SUPERSTRUCTURE  
ROADWAY "F" OVER ROADWAY "G"  
STATION 853+47.92  
F. A. I. RT. 180 BUREAU COUNTY SECTION 06-2HB-4  
E. W. LOCHNER, INC.  
ENGINEERS  
CHICAGO, ILLINOIS  
SHEET 3 OF 18

**FOR INFORMATION ONLY**

MODEL: Existing Plans 2 (Sheet) FILE NAME: L:\DOT\2204869-001\_S\006-0056\468900\CADD Data\Bridges\CADD Sheets\SN 006-0056 - EX2\_Existing Plans 2.dgn

DRAWN BY: P.K.  
CHECKED BY: V.G.S.  
APPROVED BY: S.A.  
K.A.



USER NAME	= dcochran	DESIGNED	- IF	REVISED	-
DRAWN	- IF	REVISED	-		
CHECKED	- DAC/DH	REVISED	-		
DATE	- October 10, 2024	REVISED	-		

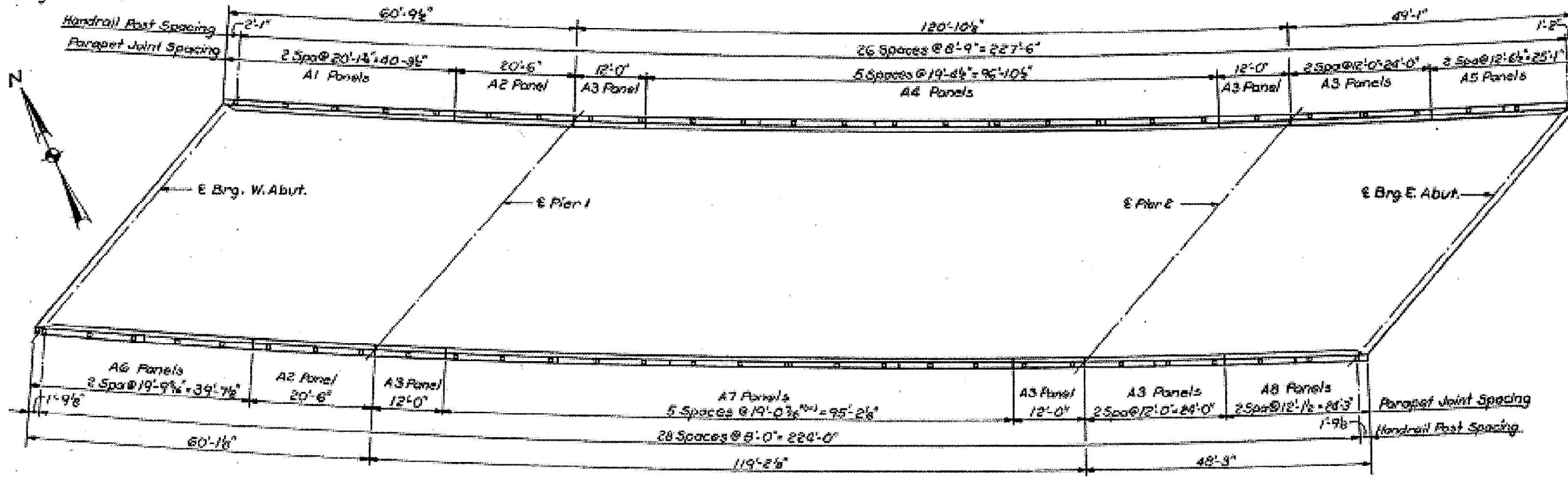
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS  
STRUCTURE NO. 006-0056

SCALE: SHEET 11 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	33
CONTRACT NO. 66P33				
ILLINOIS				FED. AID PROJECT

NOTE: Dimensions are measured along Face Line.

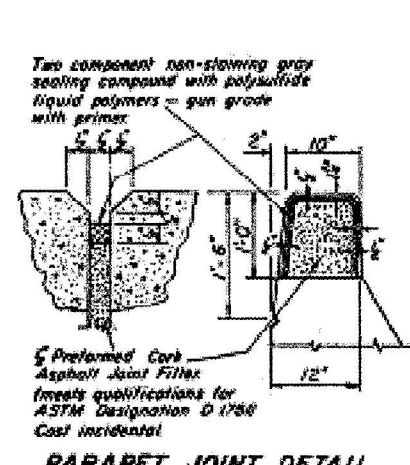
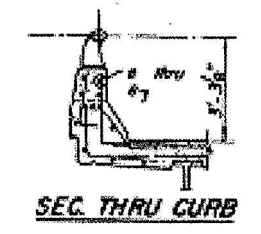
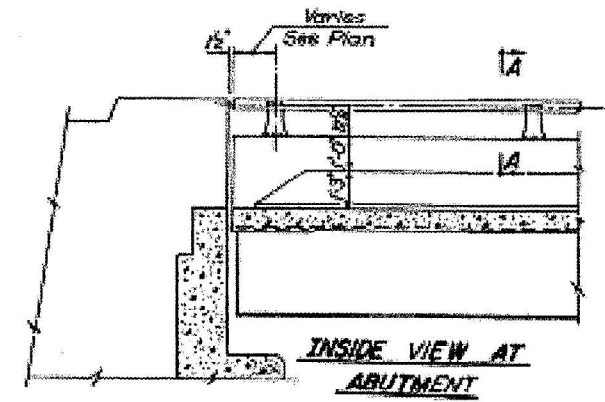
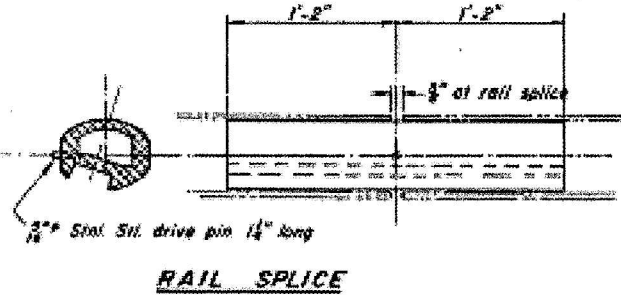
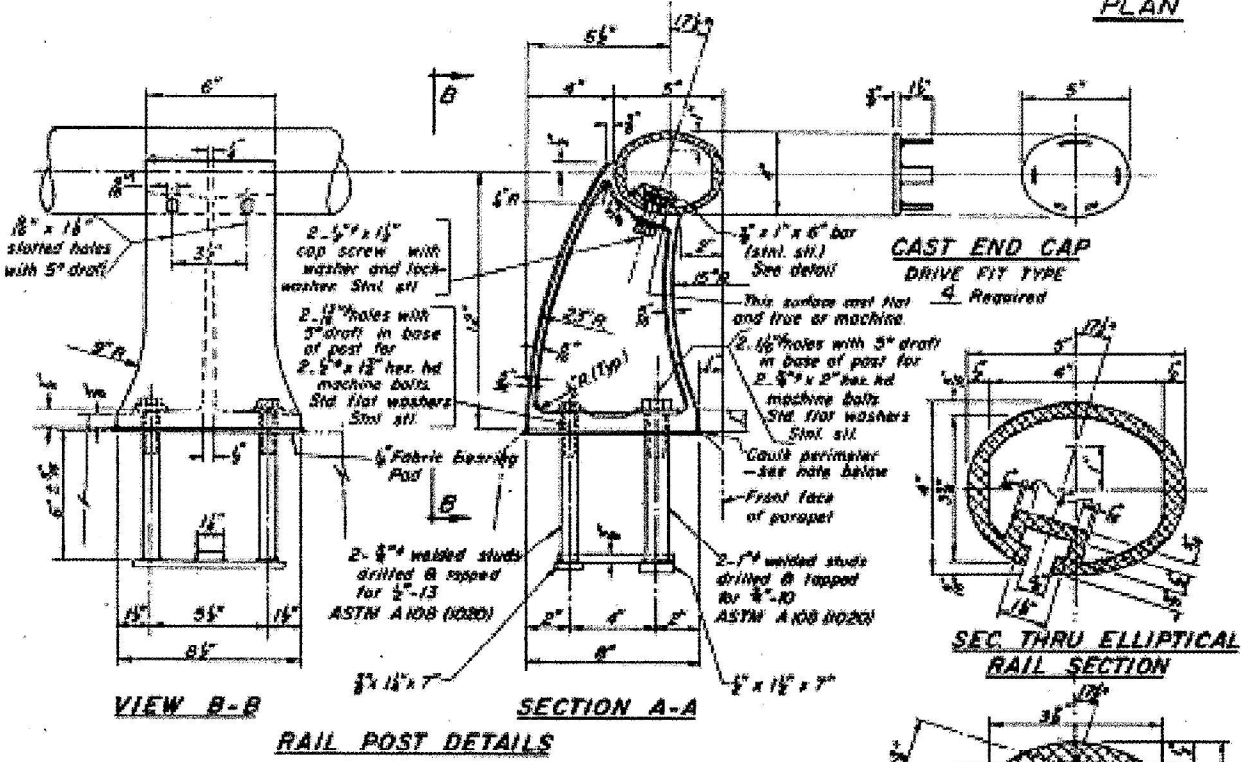


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
E. A. I. - 180	06-2HB-4	BUREAU	103	13
FED. ROAD DIST. NO. 4	ILLINOIS	PROJECT		

BILL OF MATERIAL					
*Bar	No.	Size	Length	Shape	
5a	8	#5	19'-10"		
5a1	8	#5	20'-2"		
5a2	32	#5	11'-8"		
5a3	20	#5	19'-1"		
5a4	8	#5	12'-3"		
5a5	8	#5	19'-6"		
5a6	20	#5	18'-8"		
5a7	8	#5	11'-10"		
Item				Unit	Total
Reinforcement Bars				Lbs.	1,570
Aluminum Handrail				Lin. Ft.	456

\* See Note X on Sheet No. 4

PLAN



**NOTES:**

All Posts shall be normal to parapet.

All Aluminum Alloy Extruded Rail shall conform to ASTM specification B-221 alloy 6061-T6 and shall be supplied in modular lengths of 30 feet, except at the end of bridge or over span joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail. See Special Provisions for following Material Specifications: East Aluminum Alloy Bridge Post—Alloy A344-T4, Stainless Steel Bars, Cap Screws, Washers and Lockwashers, Fabric Bearing Pad.

**METHOD OF MEASUREMENT:** Aluminum handrail shall be measured in linear feet. The length paid for shall be the over all length along the top longitudinal railing member thru all posts and gaps.

**BASIS OF PAYMENT:** Aluminum handrail shall be paid for at the contract unit price per linear foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation, and erection.

Cost of rail splices, end caps, and hardware to be incidental to item ALUMINUM HANDRAIL.

Provide 1-1/2" and 2-1/2" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade—high spots shall be ground, and low spots shimmed.

LOCATION OF REINFORCEMENT				
Panel	No. Panel	Bar	No. Bars	
A1	2	a	8	
A2	2	a1	8	
A3	8	a2	32	
A4	5	a3	20	
A5	2	a4	8	
A6	2	a5	8	
A7	5	a6	20	
A8	2	a7	8	

\* 2 bars E.E. for Each Panel

DESIGNED BY: P.X.  
 DRAWN BY: J.S.  
 CHECKED BY: B.B.  
 APPROVED BY: K.A.

Note:  
 Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers—gun grade with primer.

Splice must be a sliding fit in Rail Section

APPROVED  
 FOR SUBMITTAL & PERMIT ONLY

BRIDGE NO. 8

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BLDGS.  
 DIVISION OF HIGHWAYS

PARAPET AND HANDRAIL  
 ROADWAY "F" OVER ROADWAY "G"

STATION 655+47.92

E. A. I. RT. 180 BUREAU COUNTY SECTION 06-2HB-4

H. W. LOEHNER, INC.  
 ENGINEERS  
 CHICAGO, ILLINOIS

SHEET 5 OF 18

MODEL: Existing Plans 3 (Sheet)  
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DESIGNED	- IF
DRAWN	- IF
CHECKED	- DAC/DH
APPROVED	- K.A.
PLOT DATE	= 10/9/2024

DESIGNED	- IF	REVISED	-
DRAWN	- IF	REVISED	-
CHECKED	- DAC/DH	REVISED	-
DATE	- October 10, 2024	REVISED	-

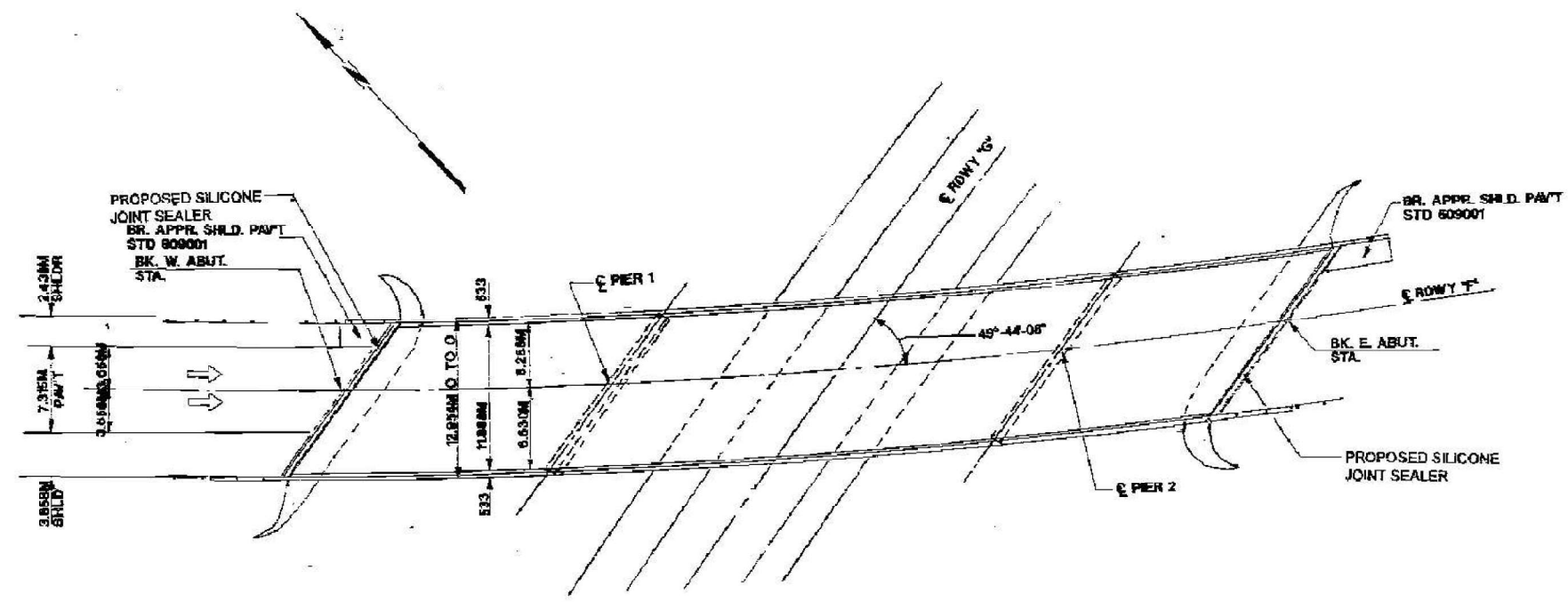
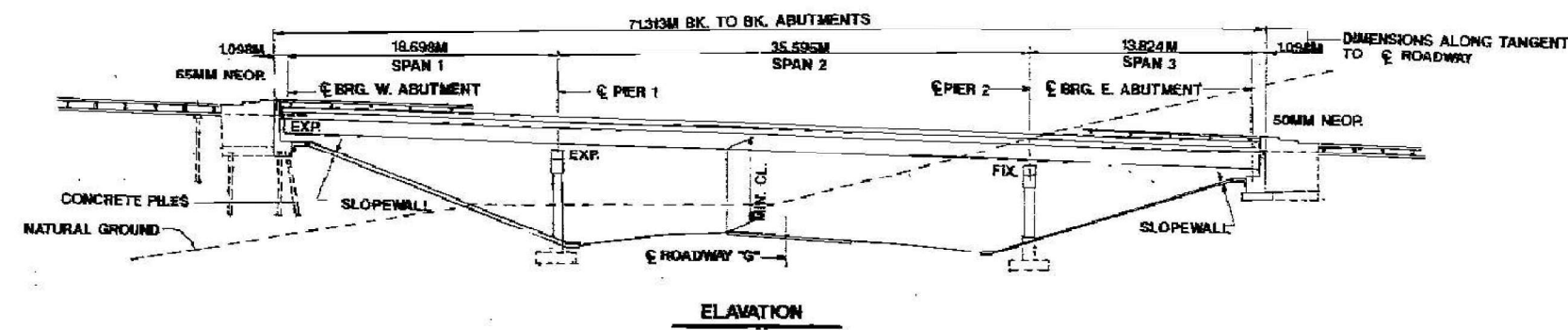
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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STRUCTURE NO. 006-0056	
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	34
CONTRACT NO. 66P33			ILLINOIS FED. AID PROJECT	

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 180		*	277	219
* (06-1 & 06-2)RS-2 & 06-2-106-3.78-RS-1				
* BUREAU & PUTNAM				

SHEET NO. 1  
12 SHEETS



**GENERAL NOTES**

ALL STRUCTURAL STEEL SHALL BE AASHTO M270M GRADE 50S EXCEPT EXPANSION JOINT PLATES AND ATTACHED BARS WHICH SHALL BE AASHTO M270M GRADE 250.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31M, M-42M, OR M-52M GRADE 40C.

PRIOR TO POURING THE NEW CONCRETE FOR THE DECK, ALL LOOSE RUST, LOOSE MILL SCALE, AND ALL OTHER LOOSE, DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE PORTIONS OF FLANGES OF STRINGERS (GIRDERS) IN CONTACT WITH CONCRETE. THE REMOVAL SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SSPC SURFACE PREPARATION SPECIFICATIONS SP-3 FOR POWER TOOL CLEANING OR SP-2 FOR HAND TOOL CLEANING. COST SHALL BE INCIDENTAL TO CONTRACT.

PLAN DIMENSIONS AND DETAILS RELATIVE TO 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 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 THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHOULD TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPlicer OR ANCHORAGE SYSTEM. COST SHALL BE INCLUDED IN THE COST OF CONCRETE REMOVAL.

THE INORGANIC ZINC RICH PRIMER/ACRYLIC/ACRYLIC PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF NEW STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED. THE COLOR OF THE ACRYLIC FINISH COAT SHALL BE INTERSTATE GREEN, MUXSELL NO. 7.56 4/3. SEE SPECIAL PROVISION "CLEANING AND PAINTING NEW METAL STRUCTURES".

EXPANSION JOINT PLATES AND ATTACHED BARS SHALL BE SHOP PAINTED WITH THE INORGANIC ZINC RICH PRIMER.

ALL STRUCTURAL STEEL SHALL BE COAT PAINTED WITH THE INORGANIC ZINC RICH PRIMER PER AASHTO M-300, TYPE 1.

EXISTING STRUCTURAL STEEL SHALL ONLY BE CLEANED AND PAINTED AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING ADJACENT AREAS OF EXISTING STEEL STRUCTURES".

**TOTAL BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CUM	9.5
CONCRETE SUPERSTRUCTURE	CUM	11.1
REINFORCEMENT BARS, EPOXY CTD.	KG	1120
F & E STRUCTURAL STEEL	KG	3070
BAR SPlicERS	EACH	24
BIT. CONC. REM (DECK)	SC. M	345
CONC. BR. BK. SCAR. (5MM)	SC. M	375
BR. BK. MICRO SILICA CONC. OVRLY.	SC. M	375
E Bridge Deck Grooving	SC. M	5.5
SILICONE JOINT SEALER	METER	34
DECK SLAB REP / PART 1	SC. M	10
DECK SLAB (FD-T1)	SC. M	1.0
DECK SLAB (FD-T2)	SC. M	2
DRAINAGE SCUPPER	EACH	7
ELAST. BEARING ASSY. TYPE 1	EACH	6
ELAST. BEARING ASSY. TYPE 3	EACH	8
JACK & REM. EX. BEARINGS	EACH	12
Polymer Concrete	CUM	.62

**GENERAL PLAN**  
FAI RTE 180, SEC 06-2HB4  
BUREAU COUNTY  
SN 006-0056  
DISTRICT NO. 2 DIXON

DESIGNED  
DRAWN  
CHECKED  
DATE  
SCALE

REVISED 3/25/99

**FOR INFORMATION ONLY**

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	DRAWN - IF	REVISED -
	CHECKED - DAC/DH	REVISED -
PLOT DATE = 10/9/2024	DATE - October 10, 2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

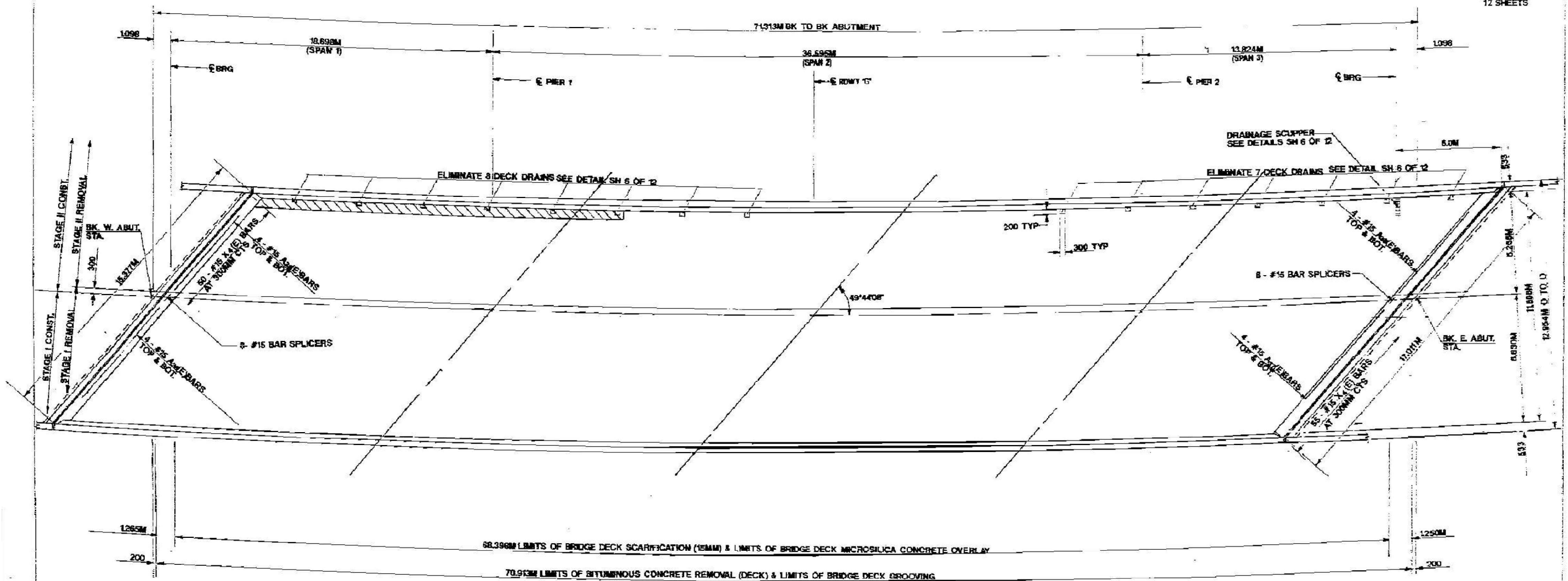
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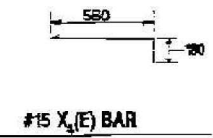
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	35
CONTRACT NO. 66P33				
ILLINOIS		FED. AID PROJECT		



ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 180	*	BUREAU	277	230
* BUREAU & PUTNAM				
SHEET NO. 2 12 SHEETS				



**FOR INFORMATION ONLY**



DECK SURVEYED 8/13/95  
NOTE: AREA OF DECK REPAIRS ARE ESTIMATED. THE PROJECT ENGINEER SHALL SHOW THE ACTUAL LOCATION OF ALL TYPES OF DECK REPAIRS ON AS-BUILT PLANS

INDICATES AREAS OF DECK SLAB REPAIR (PARTIAL DEPTH)

**BILL OF MATERIALS (DECK)**

BAR	NO.	SIZE	LENGTH (M)	SHAPE
A26(E)	8	15	8.21	
A37(F)	8	15	9.36	
A38(E)	8	15	6.50	
A39(E)	8	15	7.20	
X4(E)	105	15	0.74	
CONCRETE REMOVAL		CUM.	5.5	
CONCRETE SUPERSTRUCTURE		CUM.	2.8	
REINFORCEMENT BARS, EPOXY GTD.		KG	313	
BAR SPLICERS		EACH	16	
BIT. CONC. REM. (DECK)		SG. M	845	
CONC. BR. DK. SCAR. (15MM)		SG. M	815	
BR. DK. MICROSILICA CONC. OVRLY.		SG. M	315	
(DECK GROOVING)		SG. M	8.5	
SILICONE JOINT SEALFR		METER	34	
DECK SLAB REP. (PART)		SG. M	10	
DECK SLAB REP. (FD-T1)		SG. M	1	
F & E STRUCTURAL STEEL		KG	2030	

**DECK PLAN**  
FAI RTE 180, SEC 06-2HB-4  
BUREAU COUNTY  
SN 006-0056

DISTRICT NO. 2 DIXON  
DESIGNED: M. ETEMAD  
DRAWN: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHECKED: \_\_\_\_\_ SCALE: \_\_\_\_\_

REVISED 3/25/99

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	DRAWN - IF	REVISED -
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	DATE - October 10, 2024	REVISED -
PLOT DATE = 10/9/2024		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

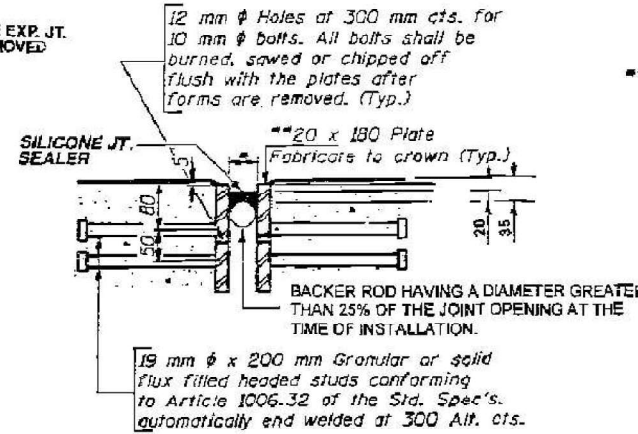
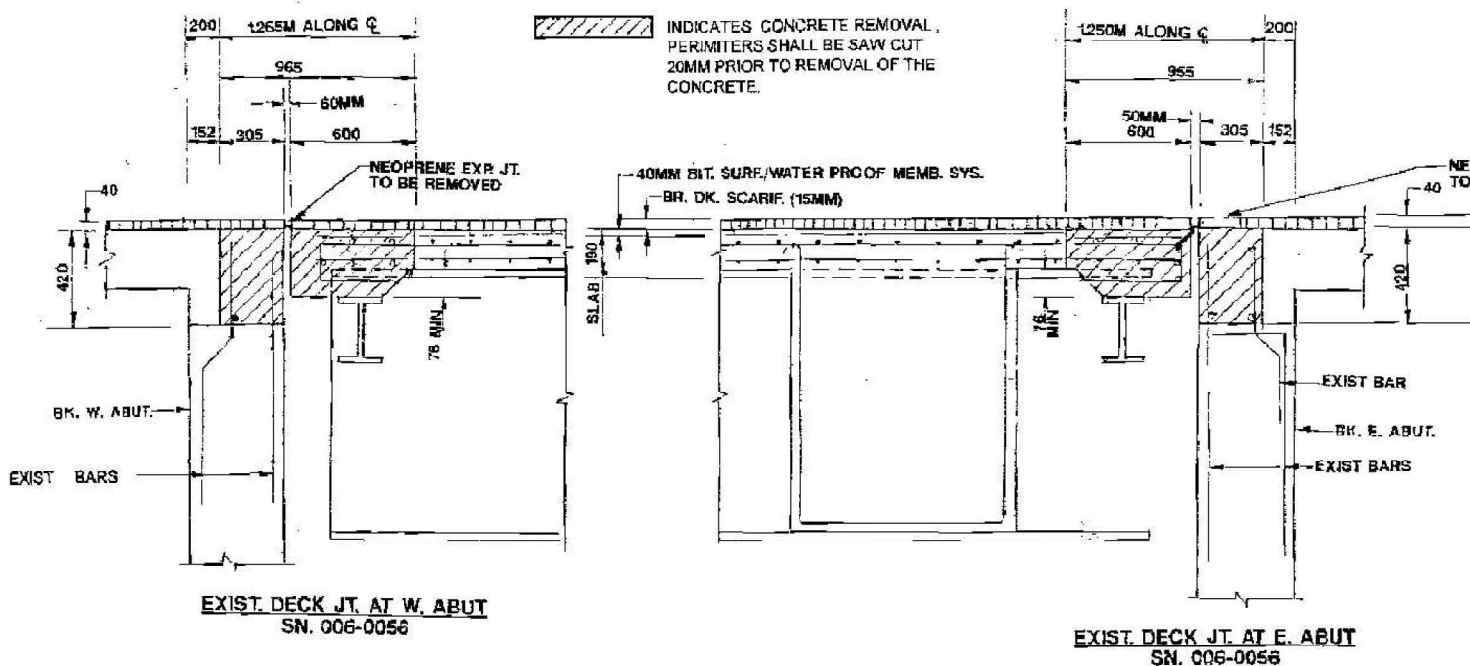
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STRUCTURE NO. 006-0056

SCALE: SHEET 14 OF 15 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2HB-4)BRR	BUREAU	37	36
CONTRACT NO. 66P33				
ILLINOIS FED. AID PROJECT				

FAI 180	SEC. 06	COUNTY	TOTAL SHEETS	SHEET NO.
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* BUREAU & PUTNAM				

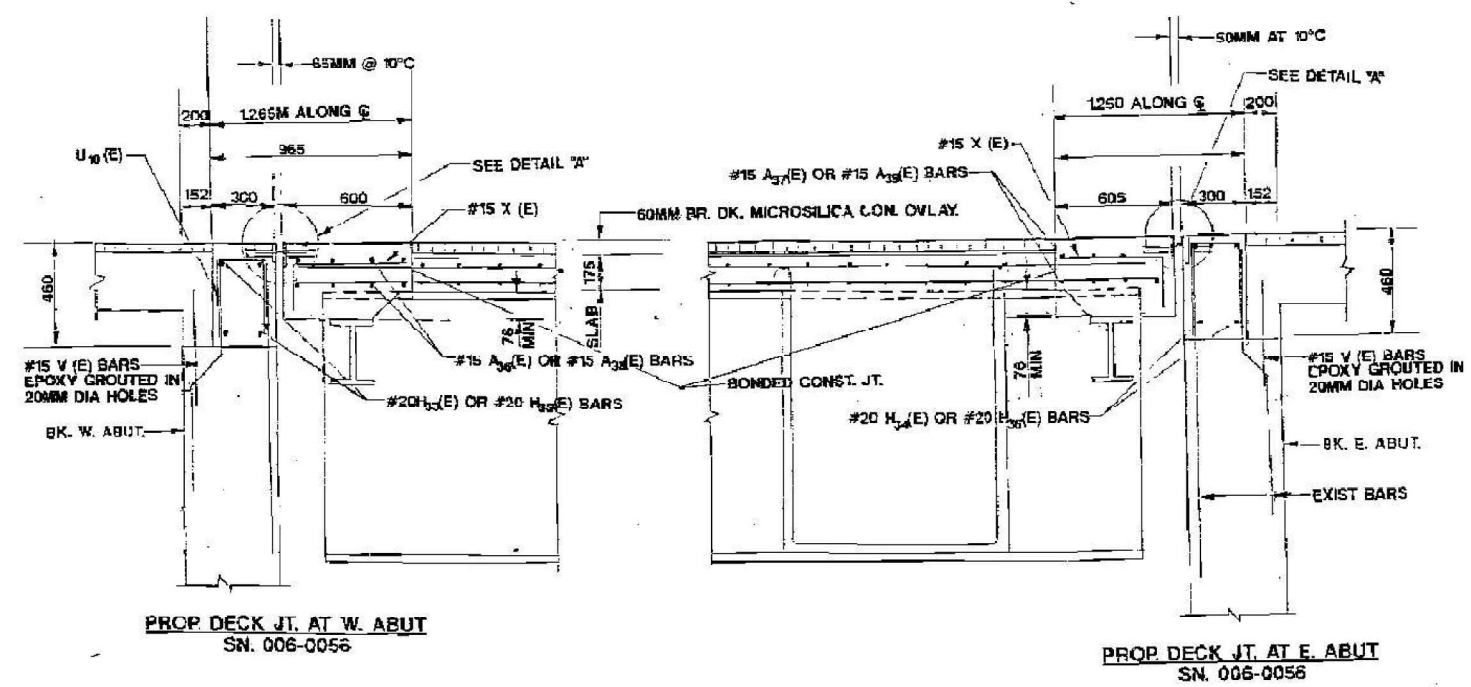
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12 SHEETS



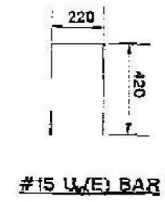
- 50MM AT 10°C E.ABUT.
- 65MM AT 10°C W. ABUT.
- Furnish in segments of 6 m maximum length. Maximum space between installed segments shall be 5 mm. Seal space with Silicone Sealant suitable for Structural Steel.

NOTE: AFTER FABRICATION ALL SURFACES OF THE STEEL PLATES SHALL BE GIVEN ONE SHOP COAT OF PAINT SPECIFIED FOR STRUCTURAL STEEL. NO FIELD PAINTING REQUIRED.

DETAIL A



TYPICAL END OF SEAL TREATMENTS



BILL OF MATERIALS (2 ABUTS)

BAR	NO.	SIZE	LENGTH (M)	SHAPE
H 33 (E)	4	20	8.59	
H 34 (E)	4	20	9.40	
H 35 (E)	4	20	8.79	
H 36 (E)	4	20	7.51	
U 30 (E)	109	15	1.60	
V (E)	17	15	0.60	
REINFORCEMENT BARS, EPOXY CTD.			KG	585
CONCRETE REMOVAL			CU. M.	4.2
CONCRETE SUPERSTRUCTURE			CU. M.	4.5
BAR SPLICERS			EACH	5

ABUTMENT DETAILS  
FAI. RTE. 180, SEC. 06-2HB4  
BUREAU COUNTY  
SN. 006-0056  
DISTRICT NO. 2 DIXON  
DESIGNED  
DRAWN  
CHECKED  
REVISED 3/25/99

FOR INFORMATION ONLY

MODEL - Existing Plans 6 (Sheet)  
FILE NAME - L:\DOT\22004869-001 - SN006-0056-486900\CADD Data\Bridges\CADD Sheets\SN.006-0056 - EX6 Existing Plans 6.dgn



USER NAME = dcochran	DESIGNED - IF	REVISED -
	DRAWN - IF	REVISED -
	CHECKED - DAC/DH	REVISED -
PLOT DATE = 10/9/2024	DATE - October 10, 2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS  
STRUCTURE NO. 006-0056

SCALE: SHEET 15 OF 15 SHEETS STA. TO STA.

FAI. RTE. 180	SECTION (06-2HB-4)BRR	COUNTY BUREAU	TOTAL SHEETS 37	SHEET NO. 37
CONTRACT NO. 66P33			ILLINOIS FED. AID PROJECT	