

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	1
		ILLINOIS	CONTRACT NO. 74C96	

D-97-028-24

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 15,000 (2023)

PROPOSED HIGHWAY PLANS

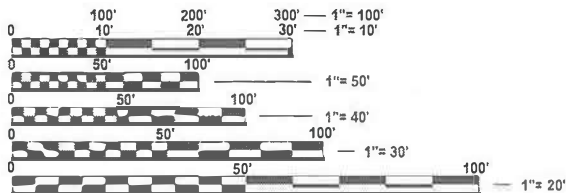
FAP ROUTE 328A (US 45)
SECTION (1Z-1)BJR, BDR
PROJECT NHPP-D6BH(448)
BRIDGE DECK OVERLAY, BRIDGE JOINT REPLACE/REPAIR
EFFINGHAM COUNTY

C-97-057-24



LOCATION OF SECTION INDICATED THUS: -

PROJECT
BRIDGE 0256004



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



LENGTH = 1114 FEET = 0.21 MILE

PROJECT ENGINEER - JAQUELYN SEALS
PROJECT MANAGER - KYLE PRICE

CONTRACT NO. 74C96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED OCTOBER 30 20 24
Jeffery P. Myerka REGIONAL ENGINEER

December 6, 2024
See E.A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

December 6, 2024
James J. Gu
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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OF THE STATE OF ILLINOIS

MODEL: GEN NOTES (Sheet)
FILE NAME: c:\pw_workspace\hillead\0977188\DT74C96-shl-gennotes.dgn

INDEX OF SHEETS

1	PLAN SHEET
2	GENERAL NOTES, INDEX, STANDARDS
3-4	SUMMARY OF QUANTITIES
5	SCHEDULE OF QUANTITES
6-12	STAGE PLAN VIEWS
13	SHORT TERM PVT MARKING DETAILS
14-30	BRIDGE REPAIR PLANS

STD. NO.	DESCRIPTION
000001 - 08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001 - 02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
442101 - 09	CLASS B PATCHES
701606 - 10	URBAN SINGLE LAND CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611 - 01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801 - 06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901 - 10	TRAFFIC CONTROL DEVICES
704001 - 08	TEMPORARY CONCRETE BARRIER
782006 - 01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
420001 - 10	PAVEMENT JOINTS
420701 - 03	PAVEMENT WELDED WIRE REINFORCEMENT
780001 - 05	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

THIS PROJECT IS LOCATED ON FAP ROUTE 328A (US 45) IN EFFINGHAM COUNTY, AT CSXT RAILROAD (OVERHEAD) 0.2 MILE SOUTH OF US 40. THE WORK INCLUDED IN SECTION (1Z-1)BJR, BDR CONSISTS OF BRIDGE DECK OVERLAY, BRIDGE JOINT REPLACE/REPAIR, BRIDGE DECK REPAIRS, PAVEMENT PATCHING, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

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 CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH STAGE I & II OF STANDARD 701611 (SPECIAL) SHALL BE COVERED WITH PAVEMENT MARKING BLACKOUT TAPE, 5".

MILLED PAVEMENT SHALL BE RESURFACED WITHIN 5 CALENDAR DAYS.

DURING STAGE 1 OF THE PATCHING AND BRIDGE WORK; CLARK AVENUE (EAST/WEST) AND WEST CRAWFORD AVENUE WILL BE CLOSED. ADDITIONAL BARRICADES AND SIGNAGE SHOULD BE INSTALLED TO THAT EFFECT. THIS WILL BE PAID FOR UNDER THE TRAFFIC CONTROL 701611 (SPECIAL), NO ADDITIONAL COMPENSATION WILL BE PERMITTED FOR THIS.

DURING STAGE 2 OF THE PATCHING AND BRIDGE WORK; CLARK AVENUE (EAST/WEST) AND THE PRIVATE ENTRANCE AT 109+72 WILL BE CLOSED. ADDITIONAL BARRICADES AND SIGNAGE SHOULD BE INSTALLED TO THAT EFFECT. THIS WILL BE PAID FOR UNDER THE TRAFFIC CONTROL 701611 (SPECIAL), NO ADDITIONAL COMPENSATION WILL BE PERMITTED FOR THIS.

THERE SHALL BE TWO PORTABLE CHANGEABLE MESSAGE SIGNS (ONE EACH) PLACED IN ADVANCE OF THE CLARK AVE CLOSURES FOR 7 DAYS PRIOR TO THE ROAD CLOSURES.

DURING STAGE 1 OF THE BRIDGE WORK THE SIDE WALK ON THE WEST SIDE OF THE ROADWAY WILL BE CLOSED TO FOOT TRAFFIC. THIS WILL BE INCLUDED IN THE PAY ITEM FOR TC 701801.

PATCHES MORE THAN 10FT IN LENGTH SHALL BE TIED TO THE ADJACENT LANE OF PAVEMENT WITH TIE BARS AS SPECIFIED IN SECTION 442.06(A)(2) OF THE STANDARD SPECIFICATIONS.

ALL TYPE I, II, III, OR IV PATCHES SHALL BE REINFORCED WITH WELDED WIRE REINFORCEMENT AS SPECIFIED IN SECTION 442.06(A)(2) OF THE STANDARD SPECIFICATIONS.

CLASS B PAVEMENT PATCHING SHALL BE DONE BEFORE ANY BRIDGE REPAIR WORK BEGINS. ALL CLASS B PATCHES OF ANY LENGTH ADJACENT TO EXISTING PARAPETS OR CURBS, REGARDLESS OF PROPOSED PARAPET REPLACEMENT, SHALL BE TIED TO THE EXISTING PARAPET OR CURB WITH TIE BARS AS SPECIFIED IN SECTION 442.06(A)(2) OF THE STANDARD SPECIFICATIONS.

CLASS B PAVEMENT PATCHES PERFORMED IN LANES ADJACENT TO PARAPET OR CURB SHALL BE LIMITED TO INDIVIDUAL LENGTHS NO GRATER THAN 25FT. PATCHES GREATER THAN 25FT SHALL BE DIVDED INTO SEGMENTS AND SHALL BE POURED IN ALTERNATING SEQUENCE. SUBSEQUENT SEGMENTS PATCHED IN SEQUENCE SHALL NOT BE REMOVED UNTIL 24 HOURS HAVE ELAPSED FROM THE END OF THE PREVIOUS ADJACENT POUR, AND THE ADJACENT POUR SHALL HAVE ATTAINED A MINIMUM MODULUS OF RUPTURE OF 600 PSI.

DURING PLACEMENT OF FINAL PAVEMENT MARKINGS, NO GROOVING IS ALLOWED ON THE BRIDGE DECK.

REV - MS

	USER NAME = jessica.hille	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GEN. NOTES, SCHEDULE QTYS, & INDEX OF SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					328A	(1Z-1)BJR, BDR	EFFINGHAM	30	2
		CHECKED -	REVISED -					CONTRACT NO. 74C96				
	PLOT DATE = 10/31/2024	DATE -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				EFFINGHAM COUNTY	EFFINGHAM COUNTY
				BRIDGE	ROADWAY
				0047	0047
				025-6004	URBAN
44200050	WELDED WIRE REINFORCEMENT	SQ YD	812.7		812.7
44200956	CLASS B PATCHES, TYPE II, 9 INCH	SQ YD	169.5		169.5
44200962	CLASS B PATCHES, TYPE III, 9 INCH	SQ YD	269.1		269.1
44200964	CLASS B PATCHES, TYPE IV, 9 INCH	SQ YD	374.1		374.1
44201298	DOWEL BARS 1 1/4"	EACH	958		958
44213200	SAW CUTS	FOOT	2470		2470
44213204	TIE BARS 3/4"	EACH	270		270
50102400	CONCRETE REMOVAL	CU YD	88.7	88.7	
50157300	PROTECTIVE SHIELD	SQ YD	825	825	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	88.1	88.1	
50300300	PROTECTIVE COAT	SQ YD	212	212	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	10460	10460	
50800515	BAR SPLICERS	EACH	36	36	
50800530	MECHANICAL SPLICERS	EACH	14	14	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				EFFINGHAM COUNTY	EFFINGHAM COUNTY
				BRIDGE	ROADWAY
				0047	0047
				025-6004	URBAN
52000110	PREFORMED JOINT STRIP SEAL	FOOT	154	154	
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.5	0.5
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	2056	2056	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	21	21
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	856.8	856.8	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1412.5	1412.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1212.5	1212.5	
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	1.5	0.5
70600340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	1	0.5	0.5
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	745	745	
* 78004620	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 4"	FOOT	2790	312	2478
* 78004630	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 6"	FOOT	560	60	500

* SPECIALTY ITEM

REV - MS

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		DRAWN -	REVISED -					328A	(1X-1)BJR, BDR	EFFINGHAM	30	3
		CHECKED -	REVISED -					CONTRACT NO. 74C96				
	PLOT DATE = 10/31/2024	DATE -	REVISED -		SCALE:	SHEET 1	OF 2	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				EFFINGHAM COUNTY	EFFINGHAM COUNTY
				BRIDGE	ROADWAY
				0047	0047
				025-6004	URBAN
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1978		1978
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	500		500
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	37	37	
X7010232	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606 (SPECIAL)	L SUM	1	1	
X7012637	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611 (SPECIAL)	L SUM	1	0.5	0.5
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	7	7	
Z0012102	CONCRETE BRIDGE DECK SCARIFICATION 3/8 INCH	SQ YD	720	720	
Z0012193	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SQ YD	720	720	
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	66	66	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	10	10	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5	5	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	30	30	
Z0017099	DOWEL BAR ASSEMBLY	EACH	3	3	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0.5	0.5

* SPECIALTY ITEM

REV - MS

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		CHECKED -	REVISED -					CONTRACT NO. 74C96				
	PLOT DATE = 10/31/2024	DATE -	REVISED -		SCALE:	SHEET 2	OF 2	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

PAVEMENT MARKINGS

STAGE 1

STATION	TO	STATION	LOCATION	PAVEMENT MARKING BLACKOUT TAPE, 5"	SHORT TERM PAVEMENT MARKING REMOVAL		PREFORMED PLASTIC PAVEMENT MARKING TYPE D - STANDARD - LINE 4"	PREFORMED PLASTIC PAVEMENT MARKING TYPE D - STANDARD - LINE 6"	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 7"	NOTES
				70107005	70300150		78004720	78004630	78011025	78011035	
				FT	SQ FT		FT	FT	FT	FT	
87+41		89+86	NB SKIPS	61	25.5						
89+86		91+55	NP LT	169	70.4						
90+80		91+55	NP RT	75	31.3						
92+13		93+14	NP LT	101	42.1						
92+13		93+30	NP RT	117	48.8						
104+70		106+75	NP RT	205	85.4						
105+16		107+14	NP LT	198	82.5						
107+14		109+59	SB SKIPS	61	25.5						
92+81		93+30	SB SKIPS - TCB								WHITE
93+30		104+70	TCB								WHITE
104+70		106+01	TCB - SB SKIPS								WHITE
106+01		107+14	SB SKIPS								WHITE
107+14		108+41	SB SKIPS - PE								WHITE
109+04		109+59	PE - EOP								WHITE
87+14		89+86	NP RT - NB SKIPS								YELLOW
89+86		105+91	NB SKIPS								YELLOW
105+91		107+14	NB SKIPS - NP LT								YELLOW
89+86		92+31	NP LT - NB SKIPS								YELLOW
93+30			2 ARROWS								WHITE
104+70			2 ARROWS								WHITE
STAGE 2											
88+63		91+08	NB SKIPS	61	25.5						
91+08		91+55	NP RT	47	19.6						
91+40		91+55	NP LT	15	6.3						
92+13		93+14	NP RT	101	42.1						
92+13		93+56	NP LT	143	59.6						
104+95		107+50	NP LT	255	106.3						
105+12		108+36	NP RT	324	135.0						
108+36		110+81	SB SKIPS	61	25.5						
88+63		91+08	NB EOP - NB SKIPS								WHITE
91+08		92+14	NB SKIPS								WHITE
92+14		93+56	NB SKIPS - NP LT								WHITE
93+56		104+95	NP LT								WHITE
104+95		105+41	NP LT - NB SKIPS								WHITE
91+08		92+31	NP LT - SB SKIPS								YELLOW
92+31		108+36	SB SKIPS								YELLOW
108+36		110+81	SB SKIPS - TL LT								YELLOW
96+57		103+15	SB SKIPS - NP RT								YELLOW
93+56			2 ARROWS								WHITE
104+95			2 ARROWS								WHITE
STAGE 3											
PERM. MARKINGS											
102+83		105+28	NB SKIPS	61	25.5						
93+55		99+53	NP LT				598.0		598.0		YELLOW
99+53		100+79	NP LT				126.0				YELLOW - NO GROOVING
100+79		104+70	NP LT				391.0		391.0		YELLOW
93+55		99+53	NP RT				598.0		598.0		YELLOW
99+53		100+79	NP RT				126.0				YELLOW - NO GROOVING
100+79		104+70	NP RT				391.0		391.0		YELLOW
93+55		99+53	SB SKIPS				150.0	150.0		150.0	WHITE/BLACK
99+53		100+79	SB SKIPS				30.0	30.0			WHITE/BLACK - NO GROOVING
100+79		104+70	SB SKIPS				100.0	100.0		100.0	WHITE/BLACK
93+55		99+53	NB SKIPS				150.0	150.0		150.0	WHITE/BLACK
99+53		100+79	NB SKIPS				30.0	30.0			WHITE/BLACK - NO GROOVING
100+79		104+70	NB SKIPS				100.0	100.0		100.0	WHITE/BLACK

TEMP. CONCRETE BARRIER

STATION	TO	STATION	LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	NOTES
				70400100	70400200	70600240	70600340	
				FT	FT	EACH	EACH	
93+55		105+83	CL	1212.5		1		STAGE 1 (97 PCS)
92+43		101+92	CL		1212.5		1	STAGE 2 (97 PCS)
104+02		106+04	NB SKIPS	200.0		1		STAGE 3 (16 PCS)
			TOTALS	1412.5	1212.5	2	1	

ROADWAY PATCHING

CLASS B PATCHES, TYPE II, 9 INCH	CLASS B PATCHES, TYPE III, 9 INCH	CLASS B PATCHES , TYPE IV, 9 INCH	TIE BARS 3/4"	WELDED WIRE REINFORCEMENT	SAW CUTS	DOWEL BARS 1 1/4"	DOWEL BAR ASSEMBLY
44200956	44200962	44200964	44213204	44200050	44213200	44201298	Z0017099
SY	SY	SY	EACH	SY	FT	EACH	EACH
169.5	269.1	374.1	270.0	812.7	2470.0	958.0	3.0

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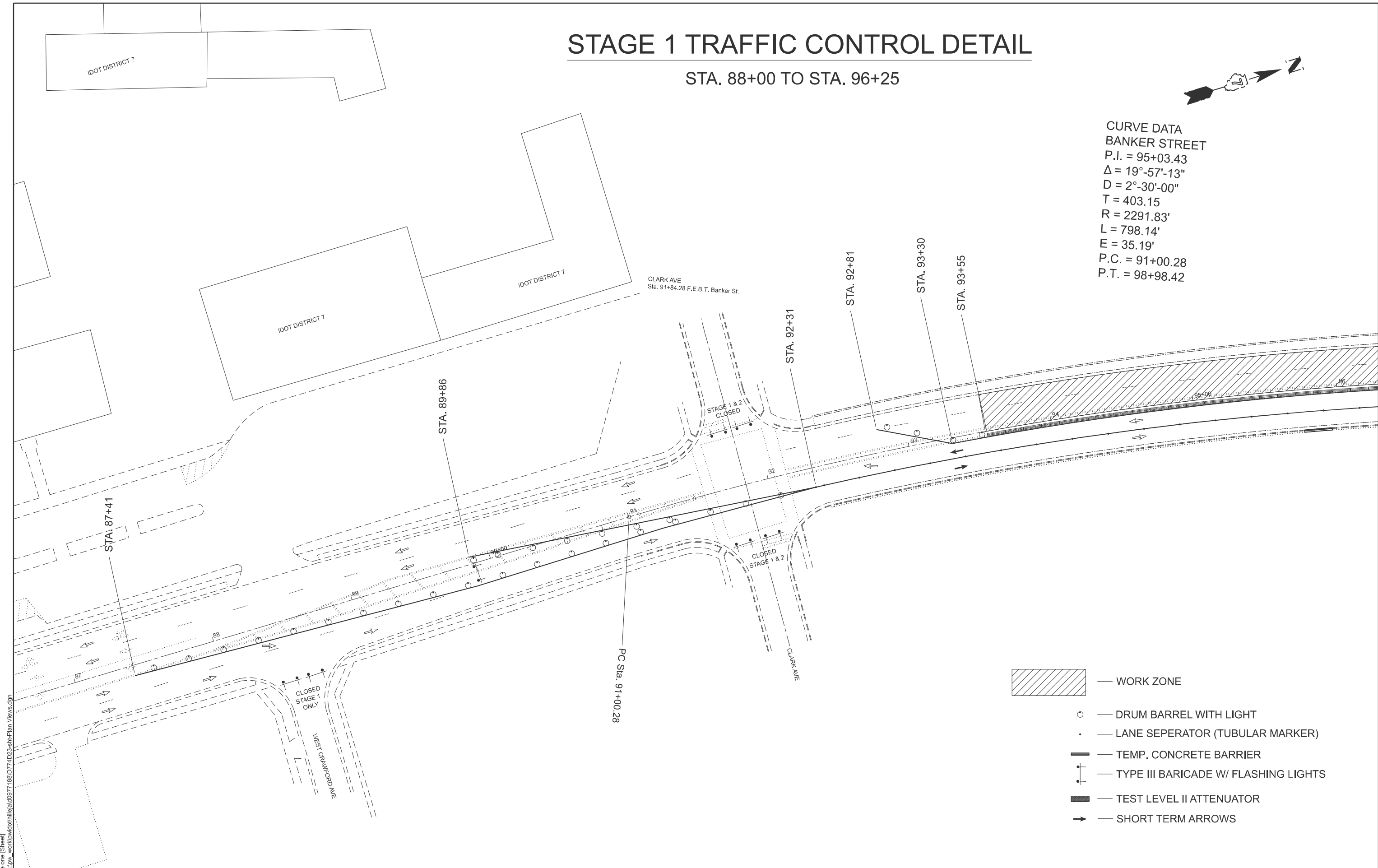
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		DRAWN -	REVISED -						328A	(1Z-1)BJR, BDR	EFFINGHAM	30	5
		CHECKED -	REVISED -		CONTRACT NO. 74C96								
	PLOT DATE = 10/31/2024	DATE -	REVISED -		SCALE:		SHEET 1 OF 1 SHEETS		STA.		TO STA.		
					ILLINOIS FED. AID PROJECT								

STAGE 1 TRAFFIC CONTROL DETAIL

STA. 88+00 TO STA. 96+25



CURVE DATA
BANKER STREET
P.I. = 95+03.43
 Δ = 19°-57'-13"
D = 2°-30'-00"
T = 403.15
R = 2291.83'
L = 798.14'
E = 35.19'
P.C. = 91+00.28
P.T. = 98+98.42



- WORK ZONE
- DRUM BARREL WITH LIGHT
- LANE SEPERATOR (TUBULAR MARKER)
- TEMP. CONCRETE BARRIER
- TYPE III BARICADE W/ FLASHING LIGHTS
- TEST LEVEL II ATTENUATOR
- SHORT TERM ARROWS

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		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 10/31/2024	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE ONE TRAFFIC CONTROL			
SCALE:	SHEET 1	OF 7 SHEETS	STA. TO STA.

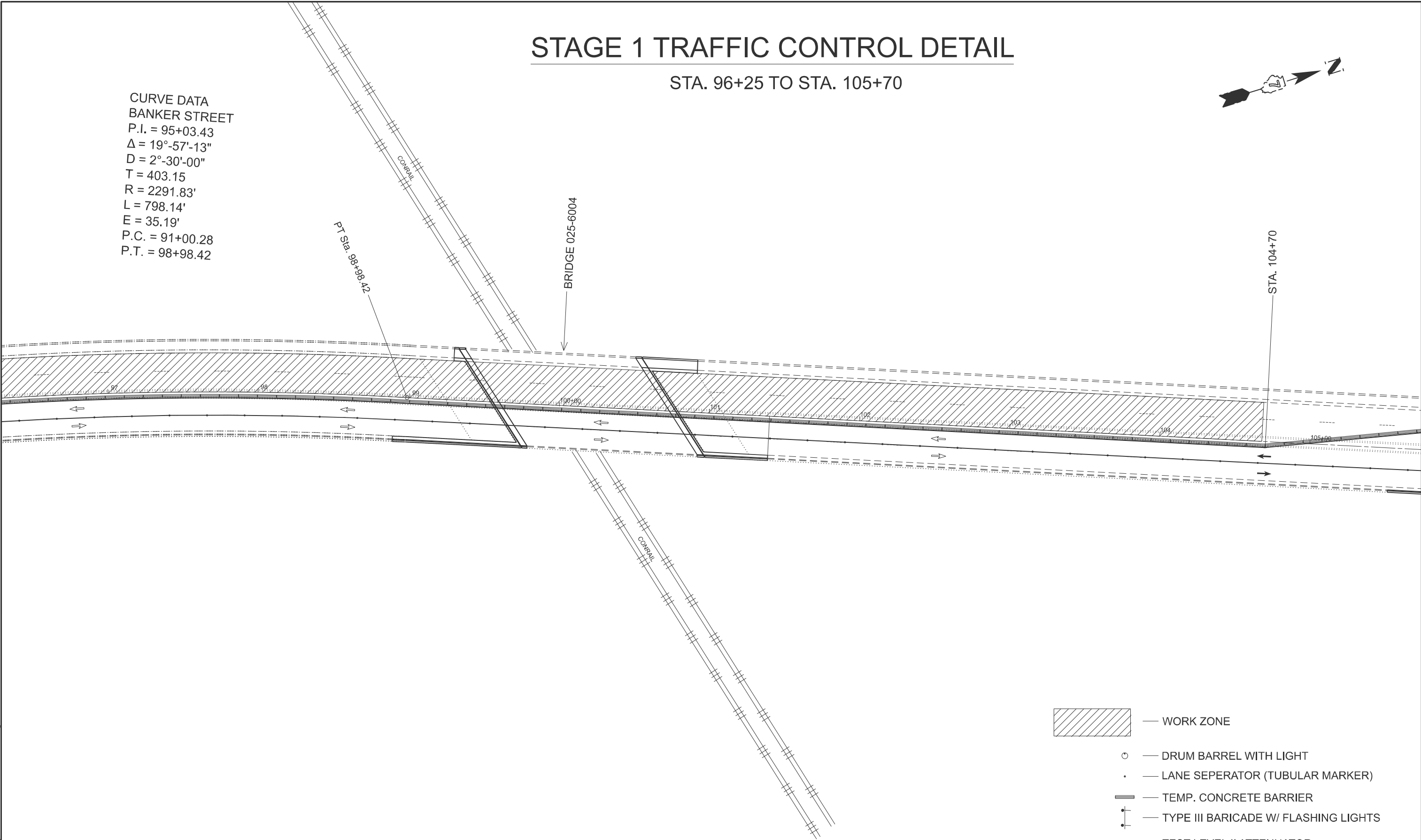
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328A	(1Z-1)BJR, BDR	EFFINGHAM	30	6
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				

STAGE 1 TRAFFIC CONTROL DETAIL

STA. 96+25 TO STA. 105+70



CURVE DATA
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 $D = 2^{\circ}-30'-00''$
 $T = 403.15$
 $R = 2291.83'$
 $L = 798.14'$
 $E = 35.19'$
P.C. = 91+00.28
P.T. = 98+98.42



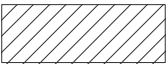
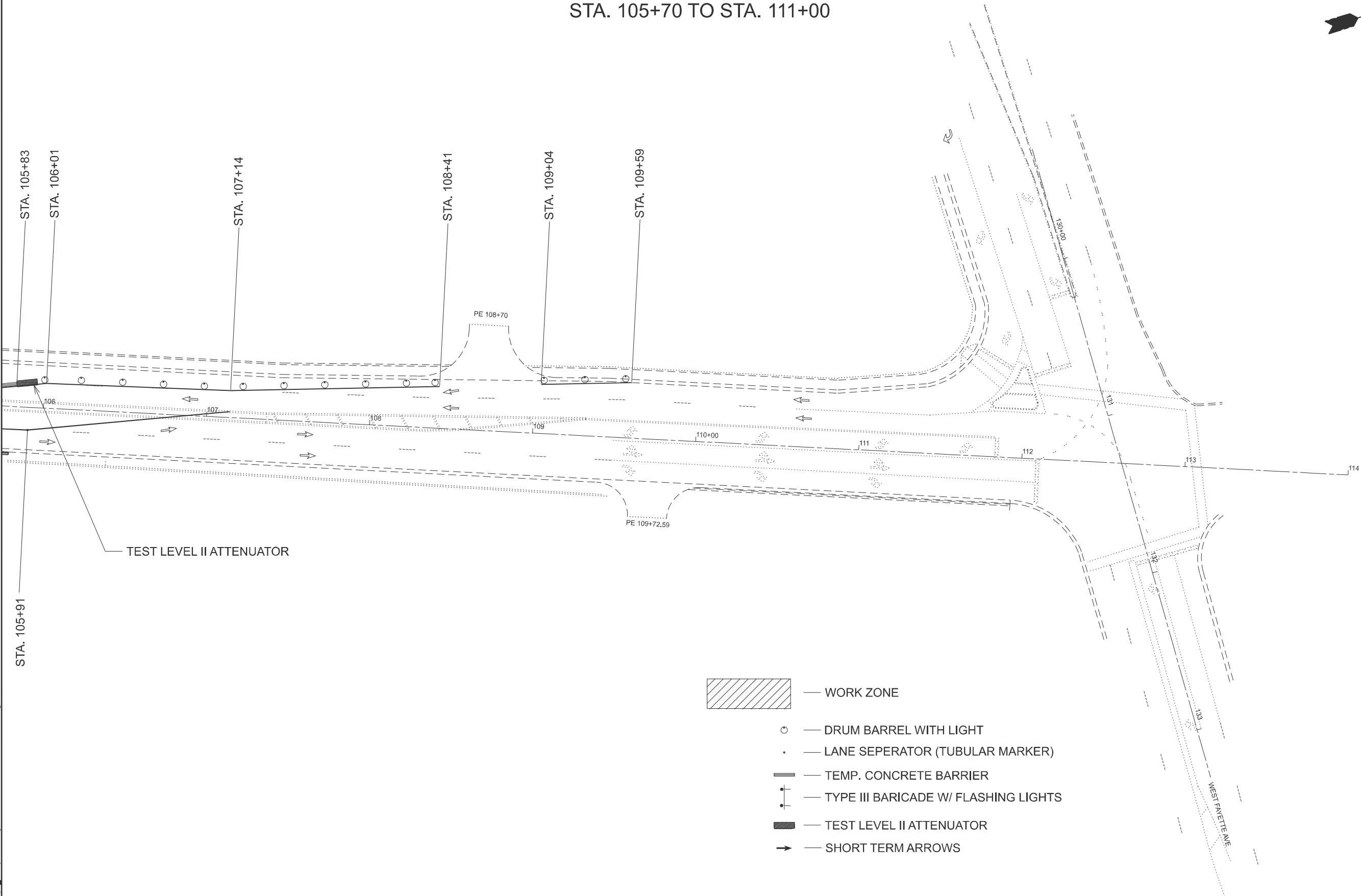
- WORK ZONE
- DRUM BARREL WITH LIGHT
- LANE SEPERATOR (TUBULAR MARKER)
- TEMP. CONCRETE BARRIER
- TYPE III BARICADE W/ FLASHING LIGHTS
- TEST LEVEL II ATTENUATOR
- SHORT TERM ARROWS

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		DRAWN -	REVISED -					328A	(1Z-1)BJR, BDR	EFFINGHAM	30	7
		CHECKED -	REVISED -					CONTRACT NO. 74C96				
	PLOT DATE = 10/31/2024	DATE -	REVISED -		SCALE:	SHEET 2	OF 7	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT

STAGE 1 TRAFFIC CONTROL DETAIL

STA. 105+70 TO STA. 111+00



— WORK ZONE



— DRUM BARREL WITH LIGHT



— LANE SEPERATOR (TUBULAR MARKER)



— TEMP. CONCRETE BARRIER



— TYPE III BARICADE W/ FLASHING LIGHTS



— TEST LEVEL II ATTENUATOR



— SHORT TERM ARROWS

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		DRAWN -	REVISED -
		CHECKED -	REVISED -
	PLOT DATE = 10/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE ONE TRAFFIC CONTROL			
SCALE:	SHEET 3	OF 7 SHEETS	STA. TO STA.

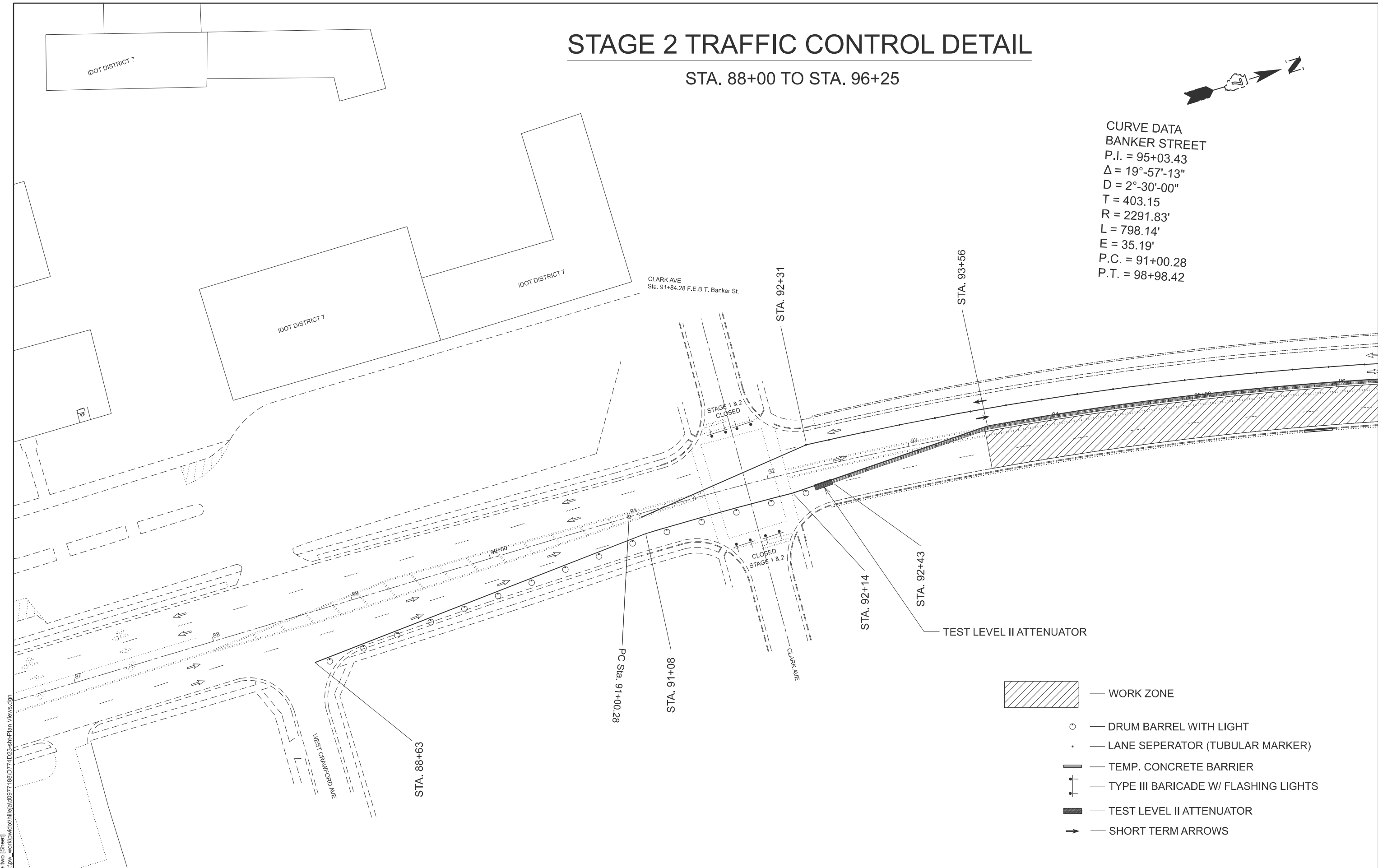
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	8
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				

STAGE 2 TRAFFIC CONTROL DETAIL

STA. 88+00 TO STA. 96+25



CURVE DATA
BANKER STREET
P.I. = 95+03.43
 Δ = 19°-57'-13"
D = 2°-30'-00"
T = 403.15
R = 2291.83'
L = 798.14'
E = 35.19'
P.C. = 91+00.28
P.T. = 98+98.42



- WORK ZONE
- DRUM BARREL WITH LIGHT
- LANE SEPERATOR (TUBULAR MARKER)
- TEMP. CONCRETE BARRIER
- TYPE III BARICADE W/ FLASHING LIGHTS
- TEST LEVEL II ATTENUATOR
- SHORT TERM ARROWS

MODEL: stage two [Sheet]
FILE NAME: c:\paw_work\pawhill\ad0977188\D774D23-sh1-Plan Views.dgn

USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 10/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE TWO TRAFFIC CONTROL

SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

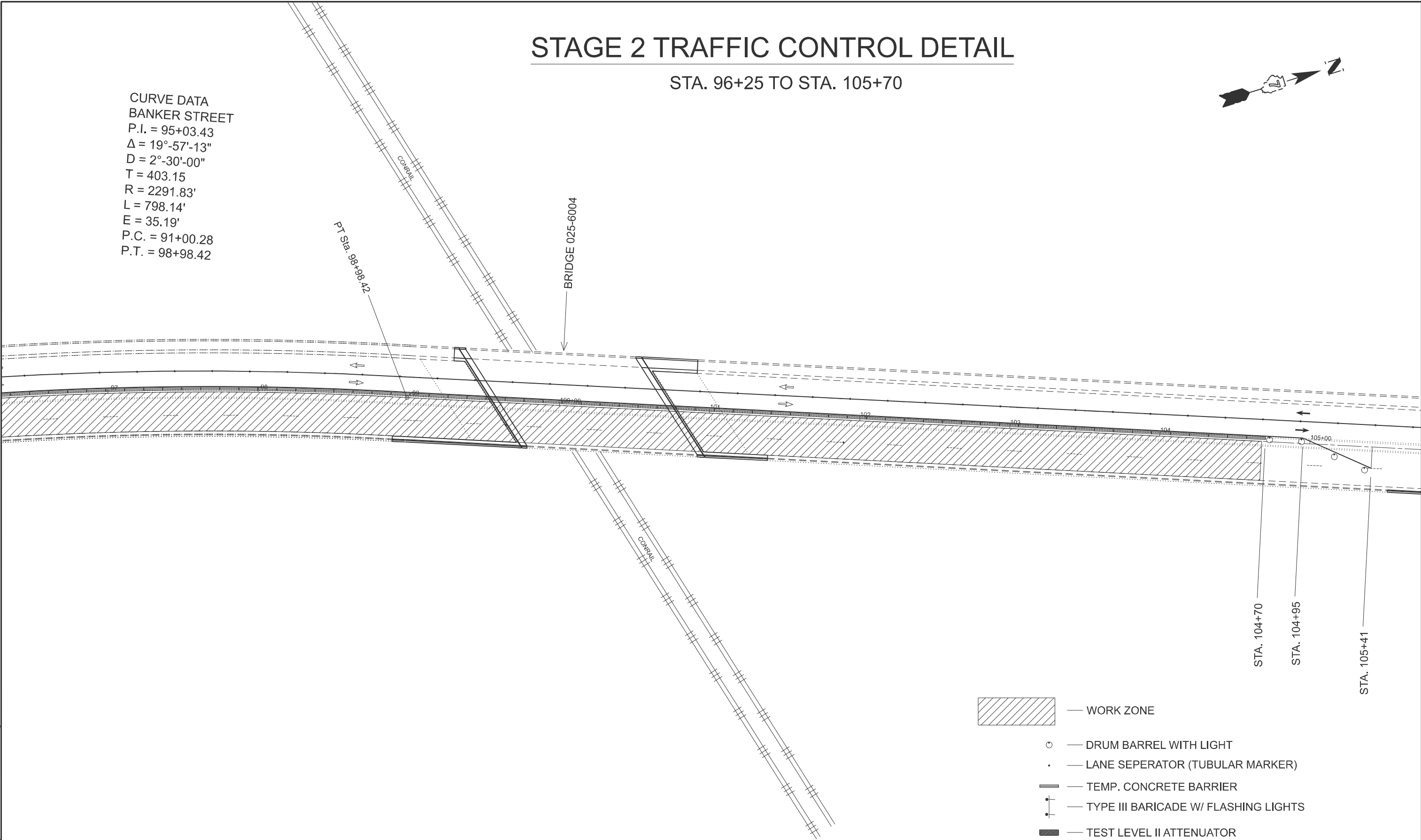
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	9
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				

STAGE 2 TRAFFIC CONTROL DETAIL

STA. 96+25 TO STA. 105+70



CURVE DATA
BANKER STREET
P.I. = 95+03.43
 $\Delta = 19^{\circ}-57'-13''$
 $D = 2^{\circ}-30'-00''$
T = 403.15
R = 2291.83'
L = 798.14'
E = 35.19'
P.C. = 91+00.28
P.T. = 98+98.42



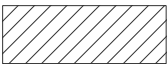
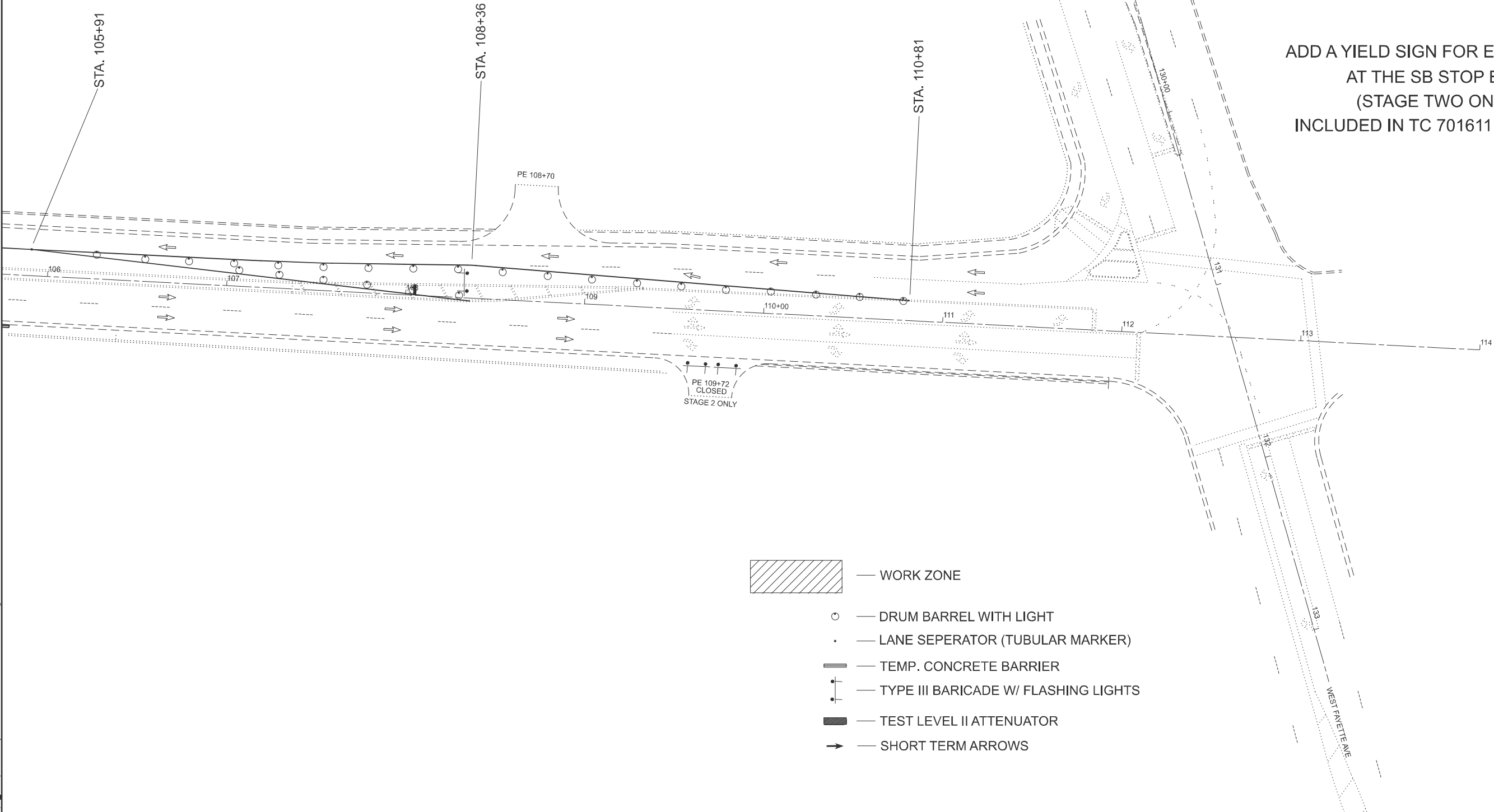
- WORK ZONE
- DRUM BARREL WITH LIGHT
- LANE SEPERATOR (TUBULAR MARKER)
- TEMP. CONCRETE BARRIER
- TYPE III BARICADE W/ FLASHING LIGHTS
- TEST LEVEL II ATTENUATOR
- SHORT TERM ARROWS

MODEL: stage two-1 (Sheet)
FILE NAME: c:\pwworking\jhill\ad0977188\DWG\23-sh1-Plan_Visual.dgn

	USER NAME = jessica.hille	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE TWO TRAFFIC CONTROL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					328A	(1Z-1)BJR, BDR	EFFINGHAM	30	10
		CHECKED -	REVISED -					CONTRACT NO. 74C96				
	PLOT DATE = 10/31/2024	DATE -	REVISED -		SCALE:	SHEET 5	OF 7 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

STAGE 2 TRAFFIC CONTROL DETAIL

STA. 105+70 TO STA. 111+00



— WORK ZONE



— DRUM BARREL WITH LIGHT



— LANE SEPERATOR (TUBULAR MARKER)



— TEMP. CONCRETE BARRIER



— TYPE III BARICADE W/ FLASHING LIGHTS



— TEST LEVEL II ATTENUATOR



— SHORT TERM ARROWS

MODEL: stage two-2 [Sheet]
FILE NAME: c:\pwworking\hillejad0977188\Drawings\Stage2\Plan Views.dgn

USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 10/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

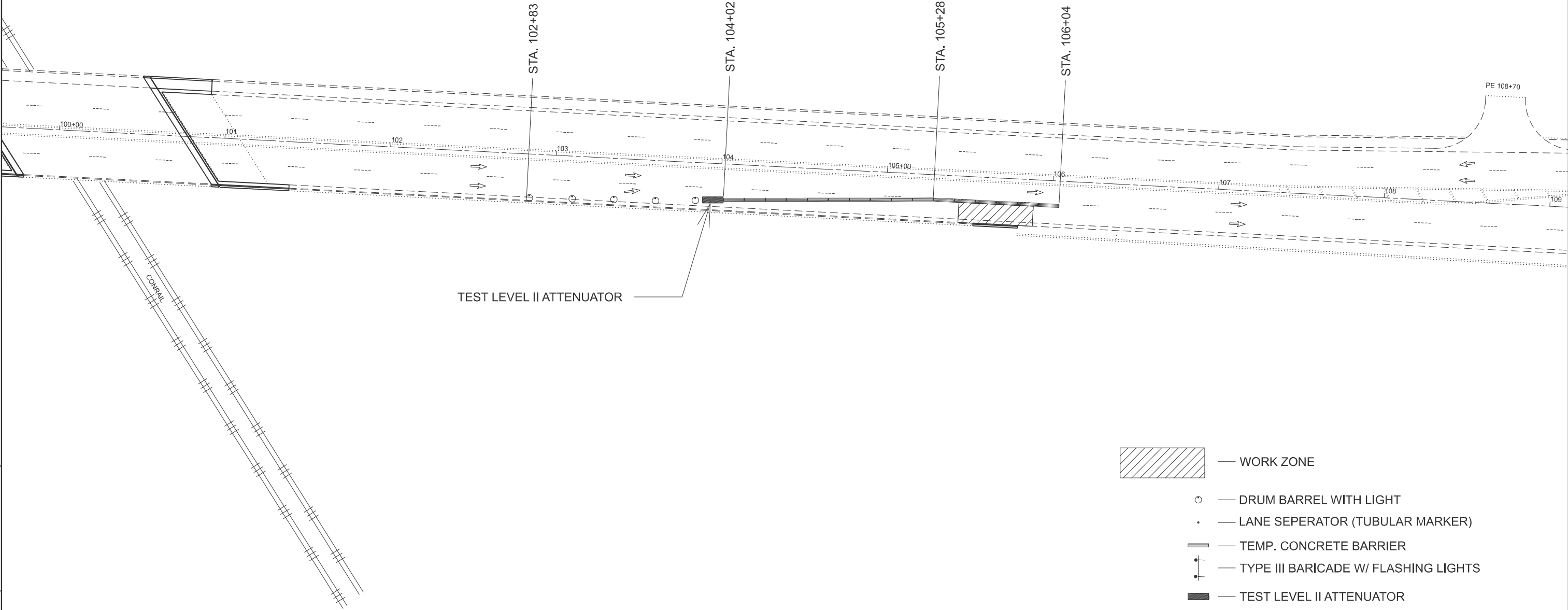
STAGE TWO TRAFFIC CONTROL

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	11
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				

STAGE 3 TRAFFIC CONTROL DETAIL

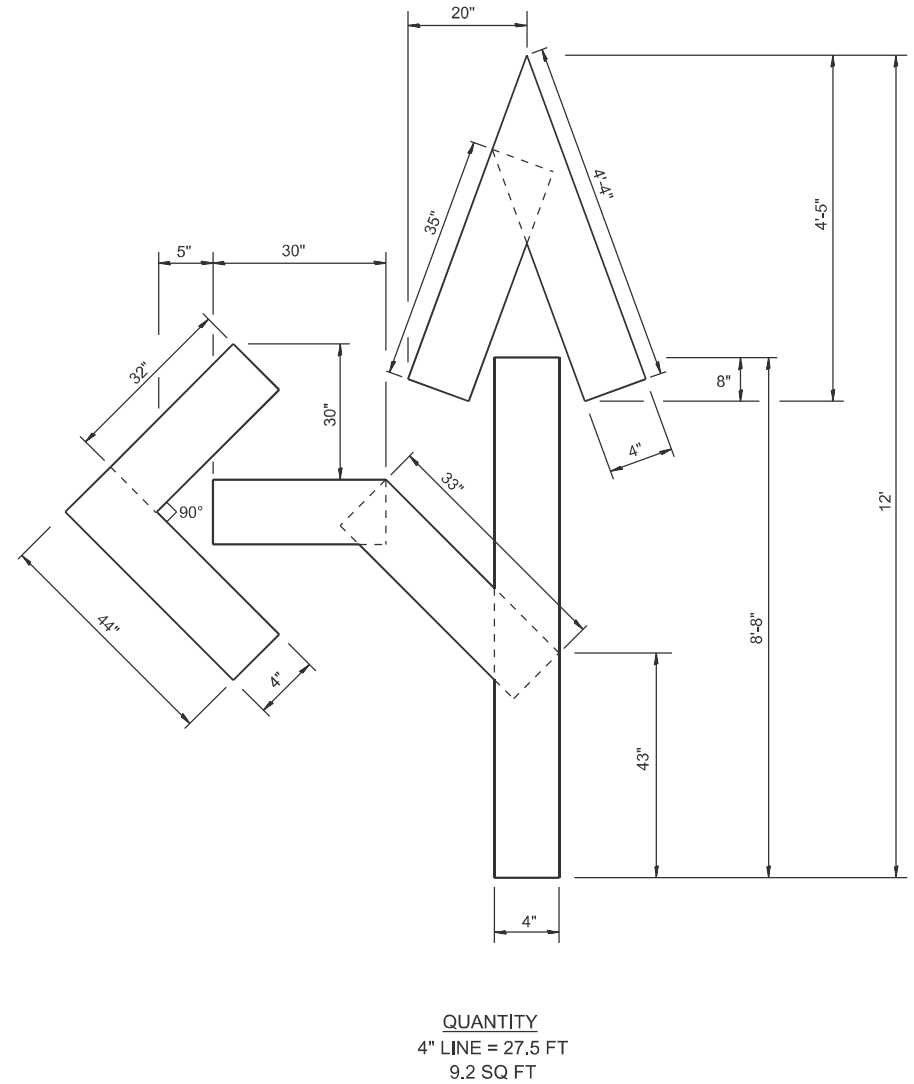
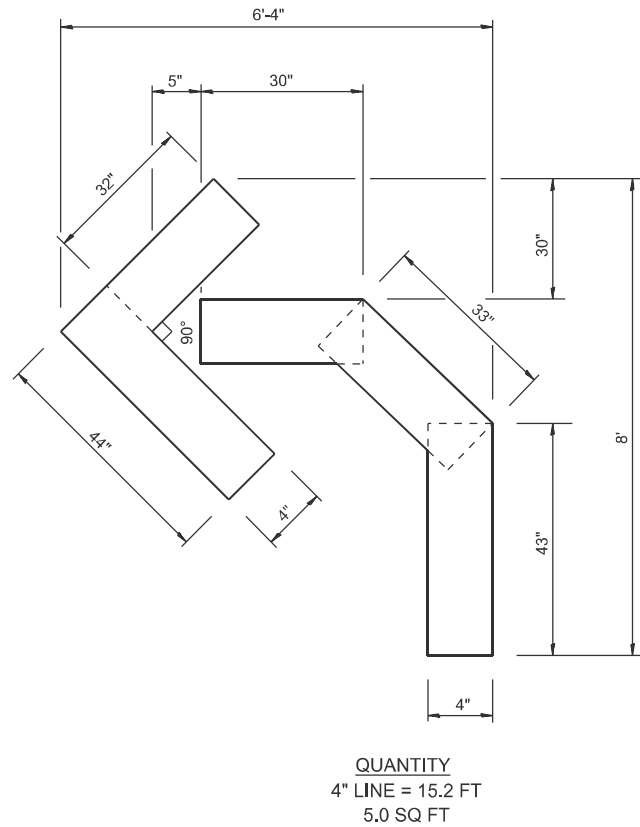
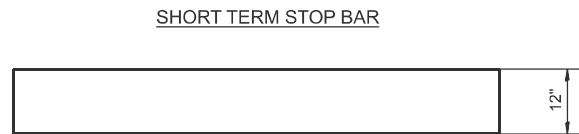
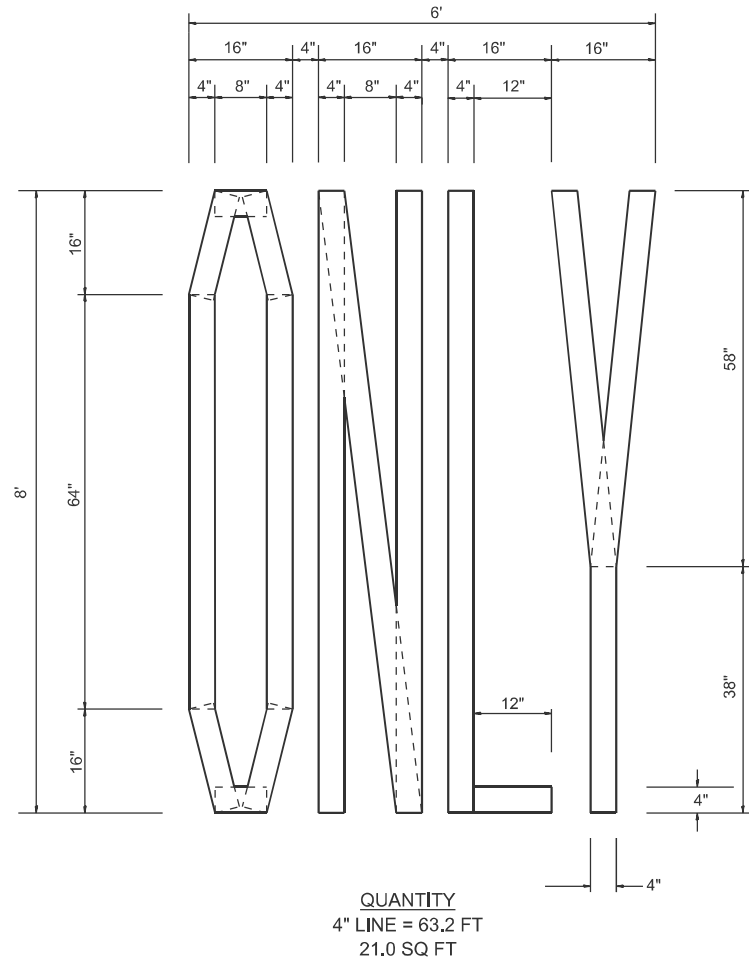
STA. 102+00 TO STA. 107+00



- WORK ZONE
- DRUM BARREL WITH LIGHT
- LANE SEPERATOR (TUBULAR MARKER)
- TEMP. CONCRETE BARRIER
- TYPE III BARICADE W/ FLASHING LIGHTS
- TEST LEVEL II ATTENUATOR
- SHORT TERM ARROWS

MODEL: stage three (Sheet)
FILE NAME: c:\p\work\jwh\hille\ad0977188\D774D23-sh3-Plan Views.dgn

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		CHECKED -	REVISED -					CONTRACT NO. 74C96				
	PLOT DATE = 10/31/2024	DATE -	REVISED -		SCALE:	SHEET 7	OF 7 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



NOT TO SCALE

DISTRICT 7 DETAIL NO. 70300001

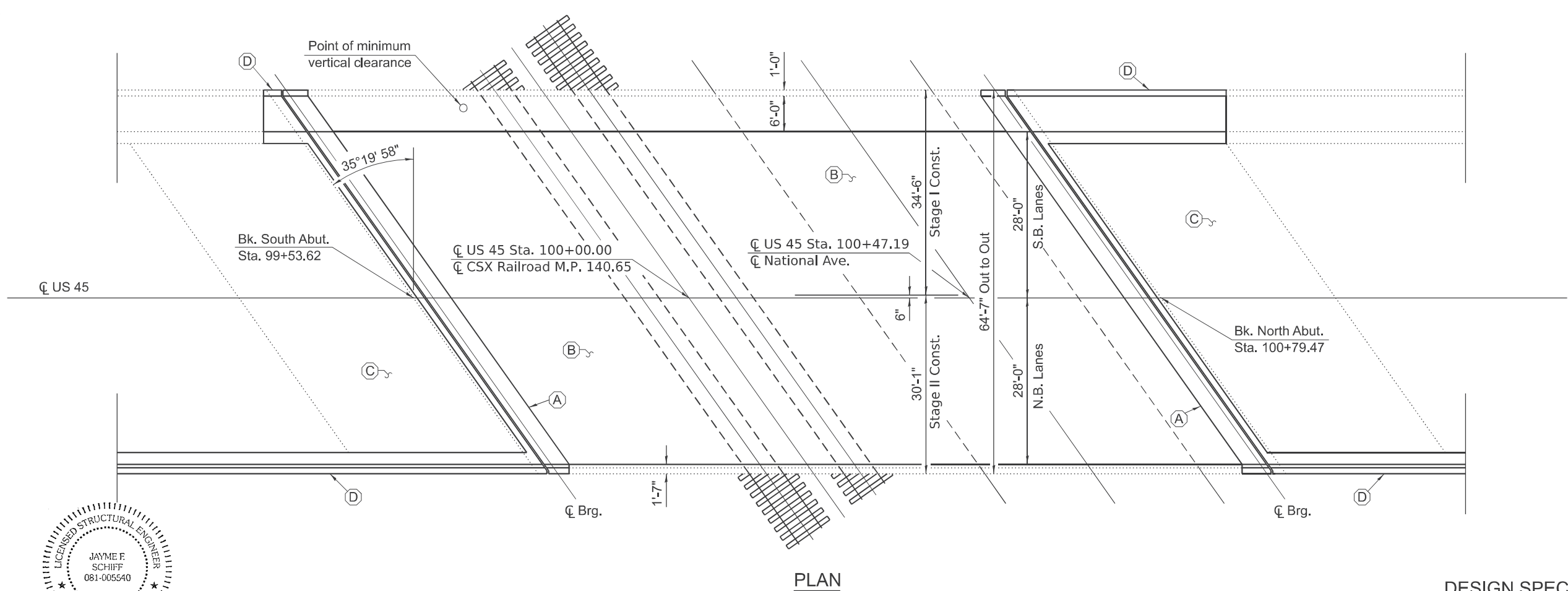
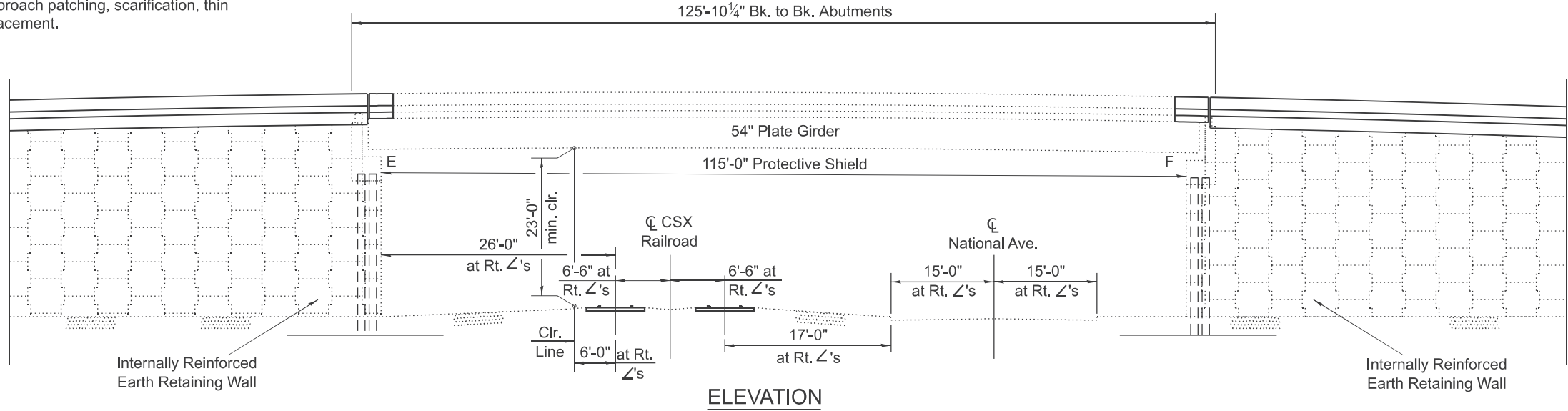
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328A	(1Z-1)BJR, BDR	EFFINGHAM	30	13
CONTRACT NO. 74C96				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL FOR TEMPORARY PAVEMENT MARKINGS

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

Structure 025-6004 carries US 45 over CSX Railroad and National Ave.
The single span, steel multi-girder structure was built in 1996. The proposed project consists of replacement of the expansion joints with new strip seals, full depth deck patching, partial depth approach patching, scarification, thin polymer overlay, and partial parapet replacement.



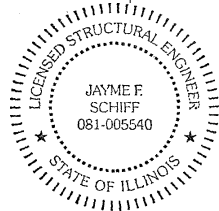
- (A) - Remove Existing Joint & Construct Strip Seal Expansion Joint
- (B) - Concrete Bridge Deck Scarification 3/8", Deck Patching, & Bridge Deck Thin Polymer Overlay 3/8"
- (C) - Approach Slab Repair
- (D) - Partial Parapet Replacement

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

f_y = 60,000 psi (Reinforcement)



EXPIRES 11-30-2026

Jayme F. Schiff

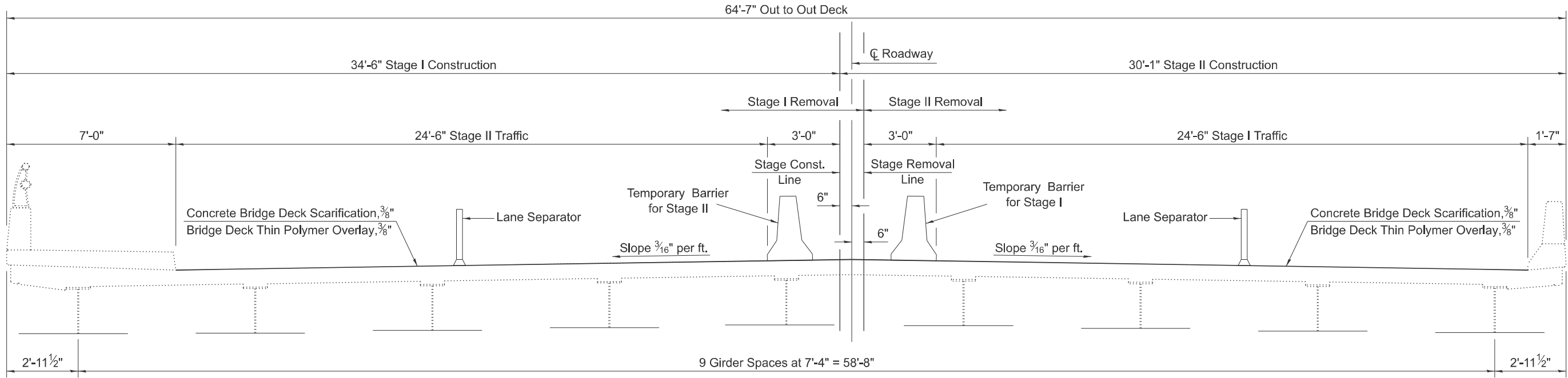
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

General Plan & Elevation
S.N. 025-6004

SCALE: SHEET 1 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	14
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				

MODEL: General Notes (Sheet)
FILE NAME: c:\p\work\hille\hille\ad0977188\025-6004 Bridge Repair Plans.dgn



STAGE CONSTRUCTION DETAIL

Looking North

GENERAL NOTES

Class B pavement patching shall be done before any bridge repair work begins. All Class B patches of any length adjacent to existing parapets or curbs, regardless of proposed parapet replacement, shall be tied to the existing parapet or curb with tie bars as specified in section 442.06(a)(2) of the Standard Specifications.

Class B pavement patches performed in lanes adjacent to parapet or curb shall be limited to individual lengths no greater than 25'. Patches greater than 25' shall be divided into segments and shall be poured in alternating sequence. Subsequent segments patched in sequence shall not be removed until 24 hours have elapsed from the end of the previous adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 600psi.

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such 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.

Reinforcement Bars designated (E) shall be epoxy coated.

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 operations shall be replaced with an approved bar splicer or anchorage system. Cost included with CONCRETE REMOVAL.

Removal and reinstallation of the handrail sections and support posts will be necessary for construction of the expansion joints. The existing handrail sections and support posts shall be reused. New bolts, shim plates and post support anchor assemblies, as detailed in the plans, are to be provided and installed for the replacement of the handrail sections. This work and all materials shall be included in the contract unit price for CONCRETE SUPERSTRUCTURE.

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

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.

Protective Coat to be applied to areas of new concrete only.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

Full depth deck slab repairs performed in the exterior bays of the bridge deck (between the parapet walls and the first interior beams) shall be limited to individual lengths no greater than 10'. In these portions of the deck, repair areas longer than 10' shall be divided into segments not greater than 10' in length, and the segments shall be poured in alternating sequence. Subsequent segments repaired in sequence shall not be removed until 72 hours have elapsed from the end of the previous adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 650psi.

The Contractor shall take all measures necessary to ensure no debris from deck repair or parapet replacement is allowed to reach the railroad track or ballast. Cost to be included with the appropriate pay item.

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	88.7
Concrete Superstructure	Cu. Yd.	88.1
Reinforcement Bars, Epoxy Coated	Pound	10,460
Bar Splicers	Each	36
Mechanical Splicers	Each	14
Preformed Joint Strip Seal	Foot	154
Concrete Bridge Deck Scarification 3/8"	Sq. Yd.	720
Bridge Deck Thin Polymer Overlay 3/8"	Sq. Yd.	720
Protective Coat	Sq. Yd.	212
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	10
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5
Deck Slab Repair (Partial)	Sq. Yd.	30
Approach Slab Repair (Partial Depth)	Sq. Yd.	7
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	66
Protective Shield	Sq. Yd.	825
Raised Reflective Pavement Marker Removal	Each	37

MODEL: State Construction [Sheet]
FILE NAME: c:\p\work\jwhill@hillj\ad0977188\025-6004 Bridge Repair Plans.dgn

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 10/31/2024	DATE -	REVISED -

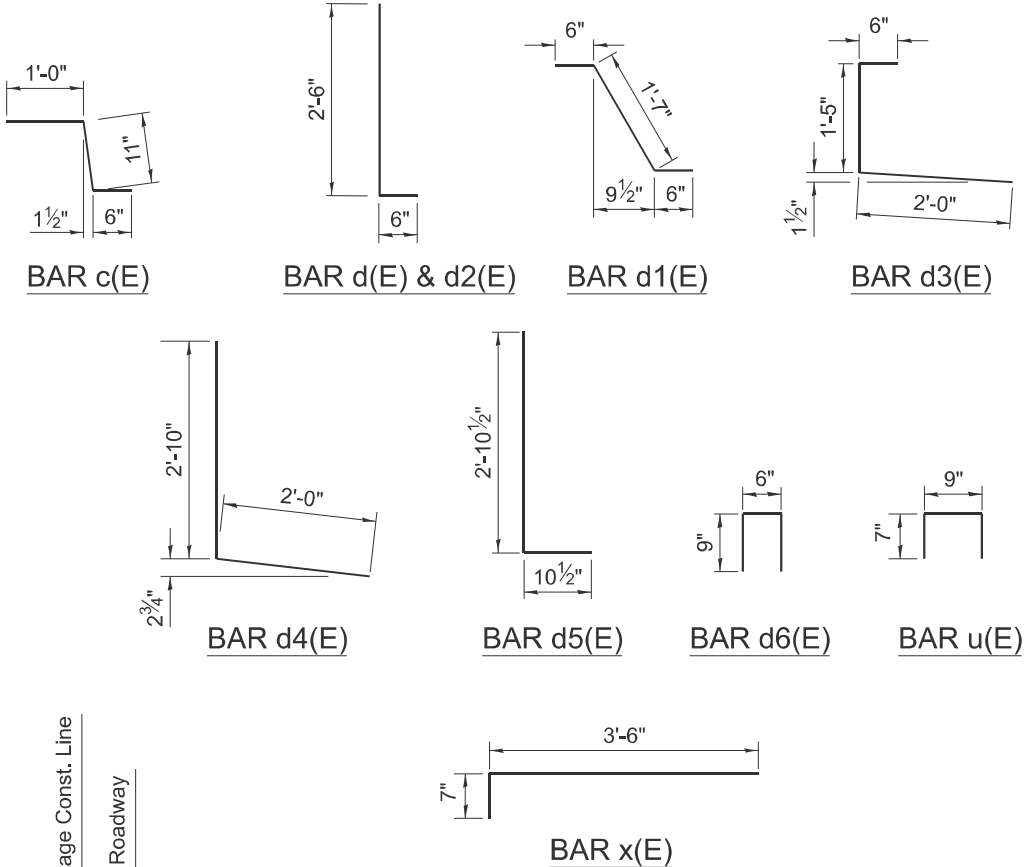
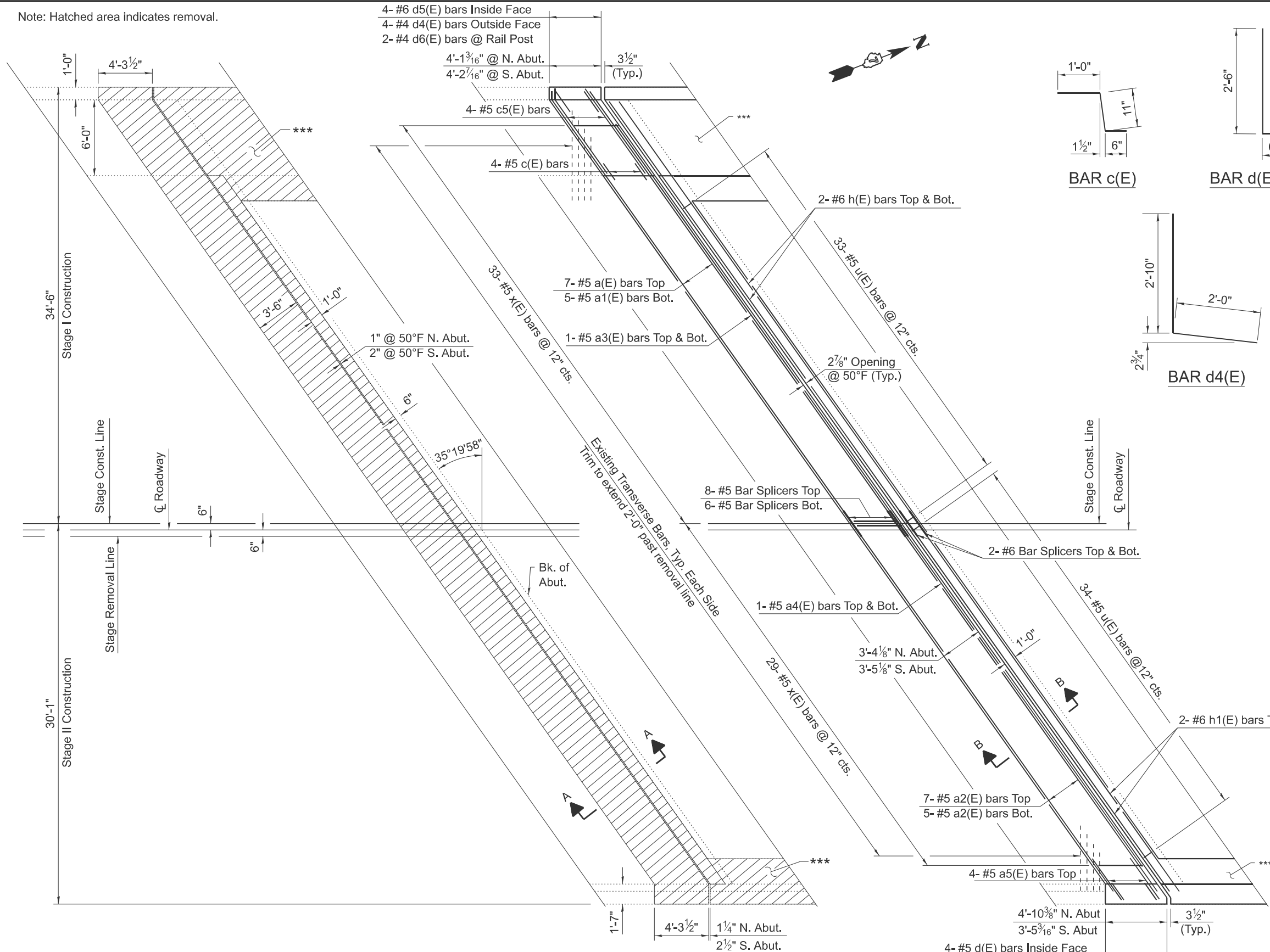
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

State Construction, General Notes, &
Bill of Materials S.N. 025-6004

SCALE: SHEET 2 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	15
CONTRACT NO. 74C96				
ILLINOIS		FED. AID PROJECT		

Note: Hatched area indicates removal.



BILL OF MATERIALS - TWO ABUTMENTS

Bar	No.	Size	Length	Shape
a(E)	14	#5	41'-9"	—
a1(E)	10	#5	40'-10"	—
a2(E)	24	#5	35'-5"	—
a3(E)	4	#5	38'-4"	—
a4(E)	4	#5	32'-11"	—
a5(E)	8	#5	4'-0"	—
c(E)	8	#5	2'-5"	⌋
c5(E)	8	#5	8'-3"	—
d(E)	8	#5	3'-0"	⌋
d1(E)	8	#5	2'-7"	⌋
d2(E)	8	#4	3'-0"	⌋
d3(E)	8	#4	3'-11"	⌋
d4(E)	8	#4	4'-10"	⌋
d5(E)	8	#6	3'-9"	⌋
d6(E)	4	#4	2'-0"	⌋
h(E)	8	#6	40'-10"	—
h1(E)	8	#6	35'-5"	—
u(E)	134	#5	1'-11"	⌋
x(E)	124	#5	4'-1"	⌋
ITEM			UNIT	QUANTITY
Concrete Removal			Cu. Yd.	28.0
Concrete Superstructure			Cu. Yd.	27.4
Reinforcement Bars, Epoxy Coated			Pound	4,220
Bar Splicers			Each	36

*** See parapet replacement sheets for details not shown.

For Sections A-A & B-B
See Sheet 4 of 17

REMOVAL PLAN
North Abutment Shown
South Abutment Similar

REINFORCEMENT PLAN
North Abutment Shown
South Abutment Similar

MODEL: Expansion-1 [Sheet]
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	DRAWN -	REVISED -
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PLOT DATE = 10/31/2024	DATE -	REVISED -

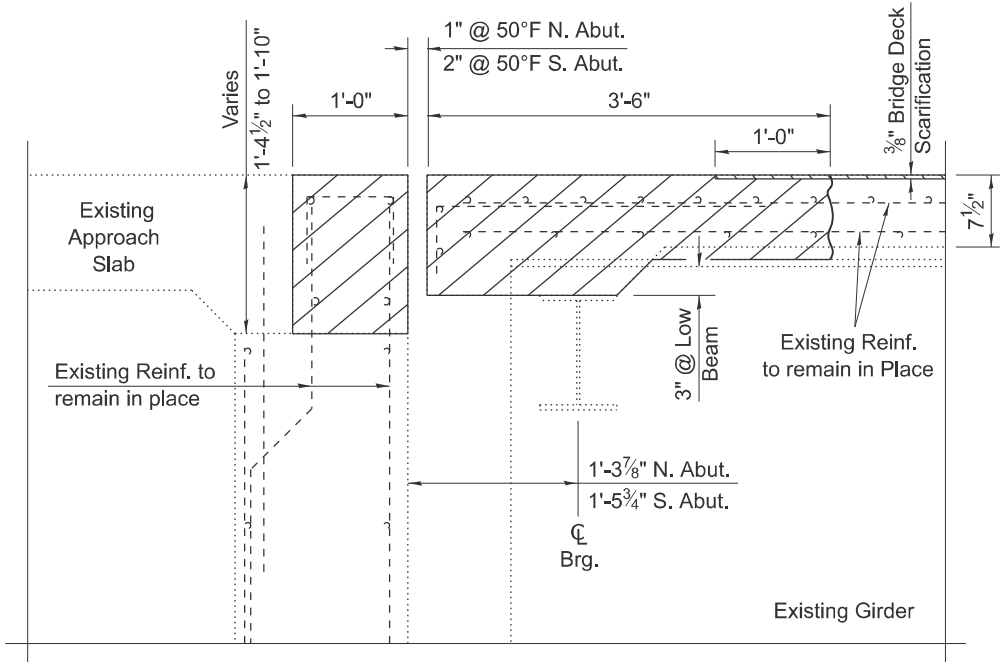
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Expansion Joint Replacement Detail
S.N. 025-6004

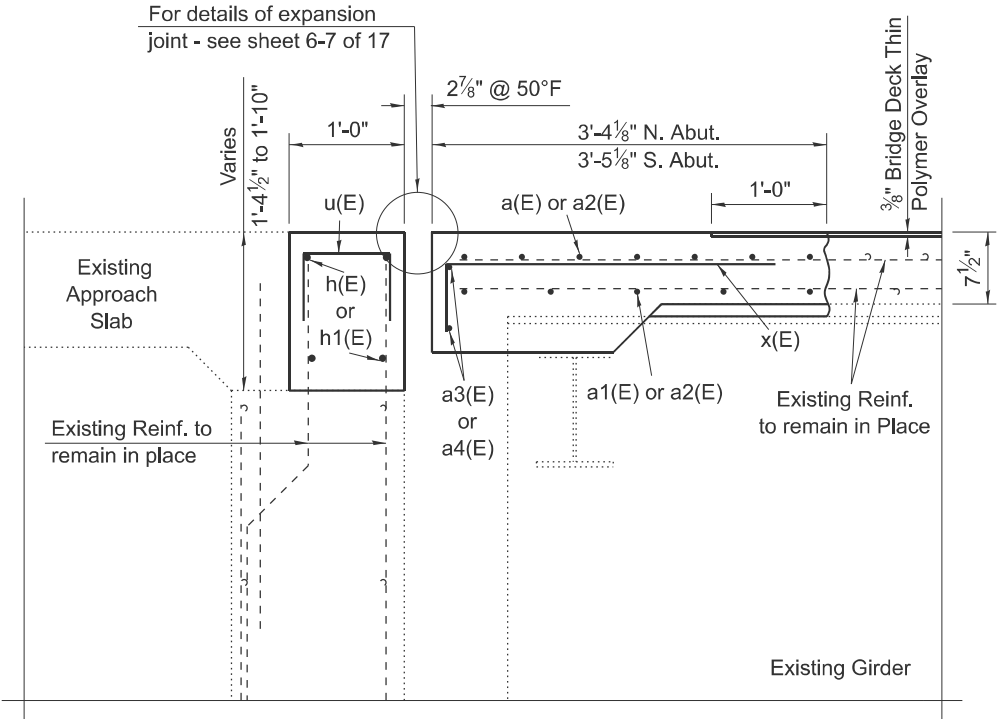
SCALE: SHEET 3 OF 17 SHEETS STA. TO STA.

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CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				

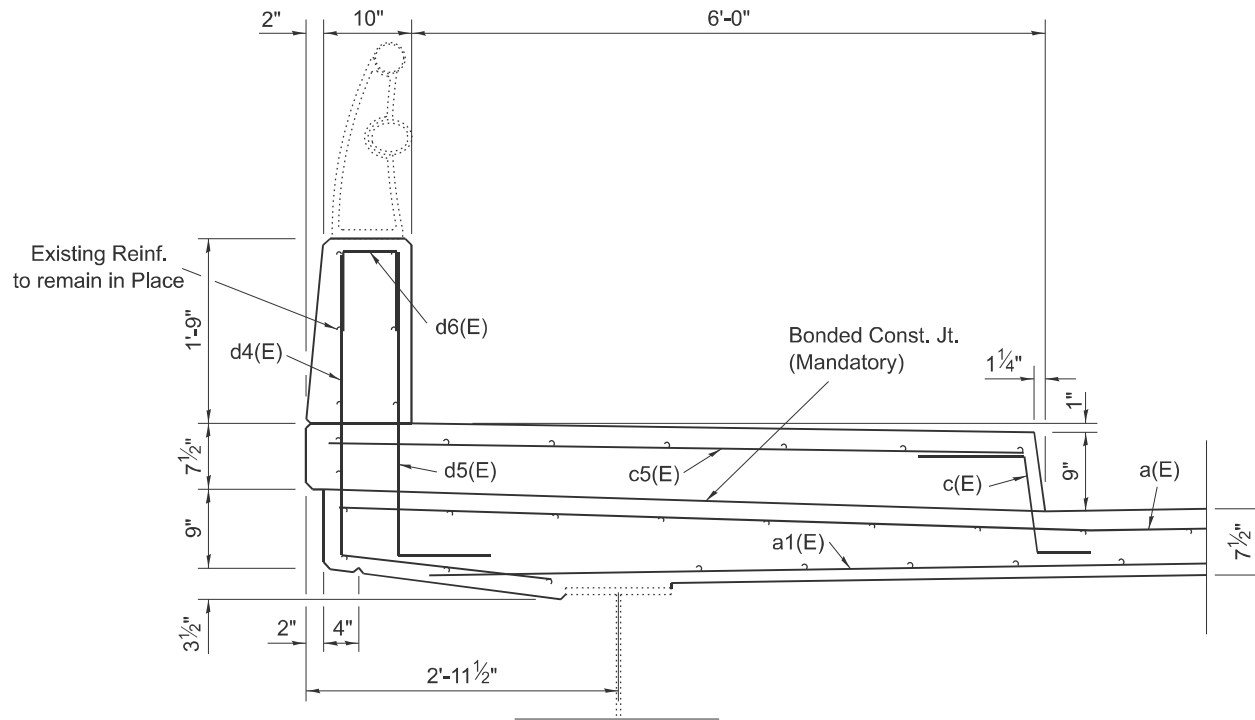
Note: Hatched area indicates removal.



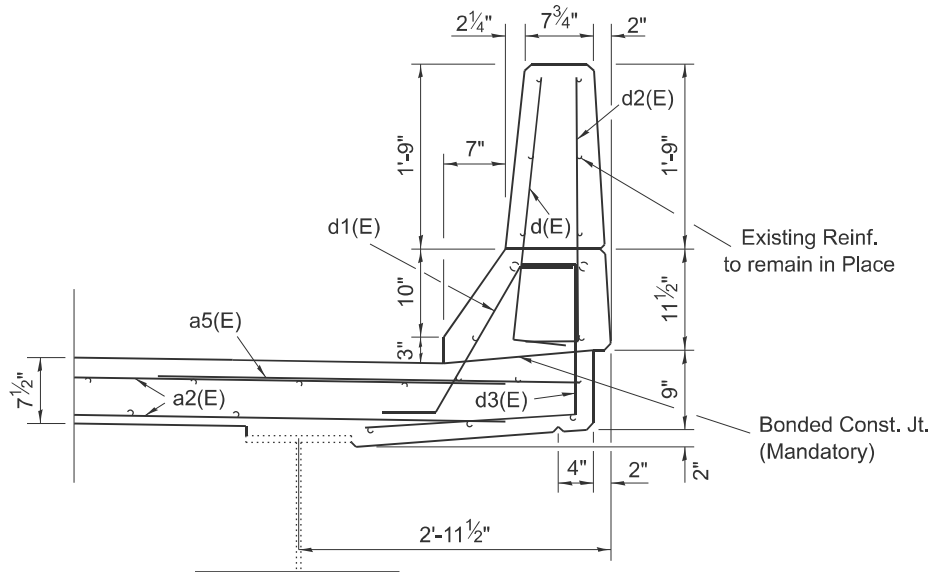
SECTION A-A



SECTION B-B



SECTION THRU WEST DECK PARAPET



SECTION THRU EAST DECK PARAPET

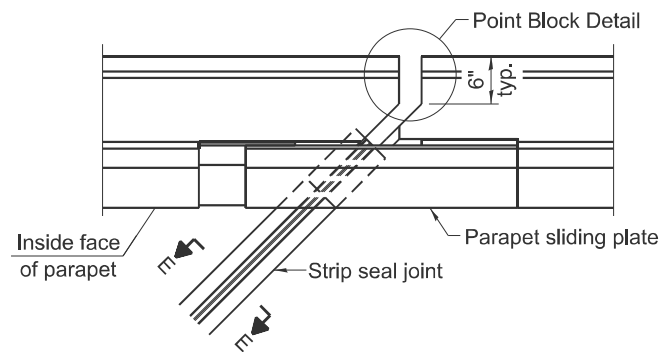
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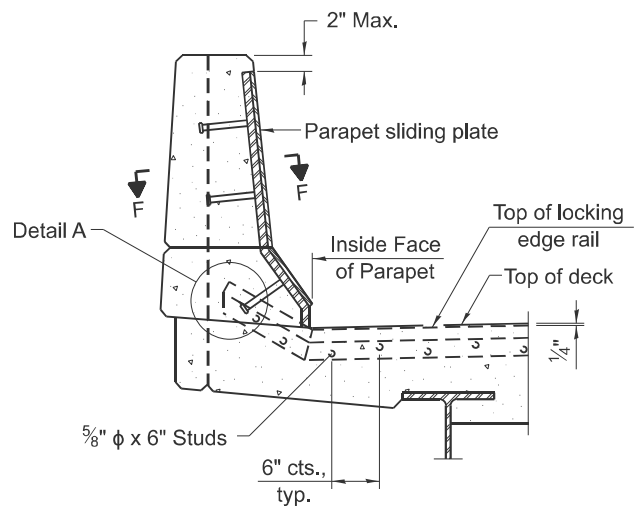
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Expansion Joint Replacement Details S.N. 025-6004			
SCALE:	SHEET 4	OF 17 SHEETS	STA. TO STA.

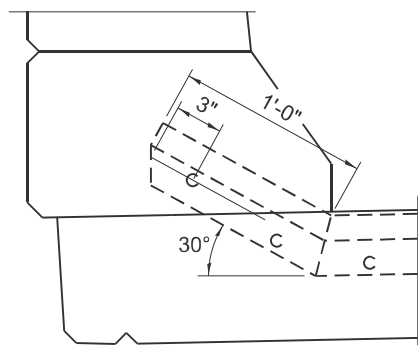
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CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				



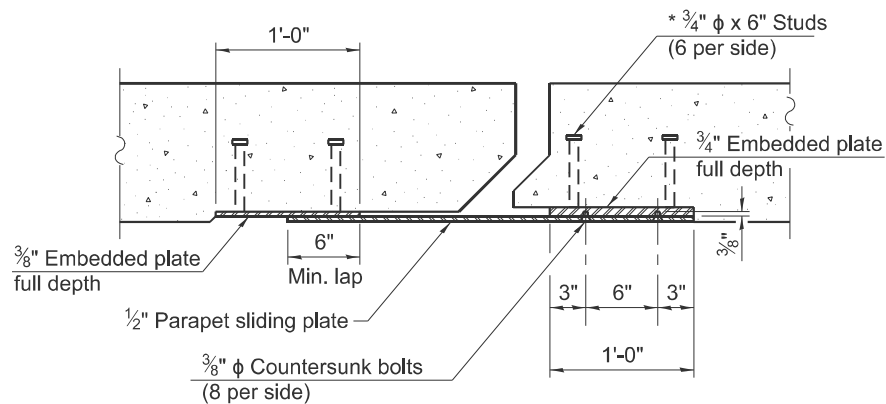
PLAN AT PARAPET



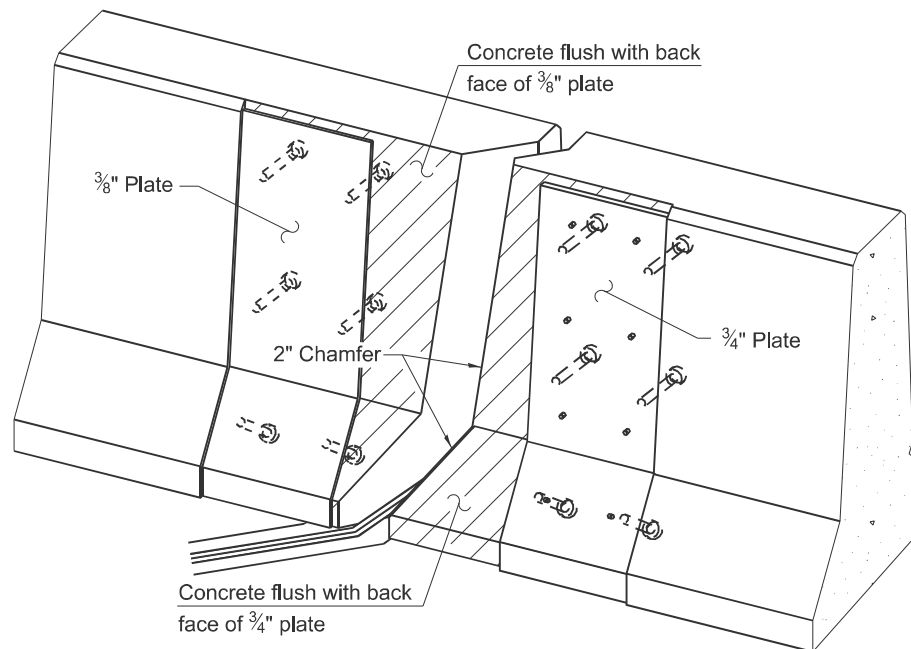
ELEVATION AT PARAPET



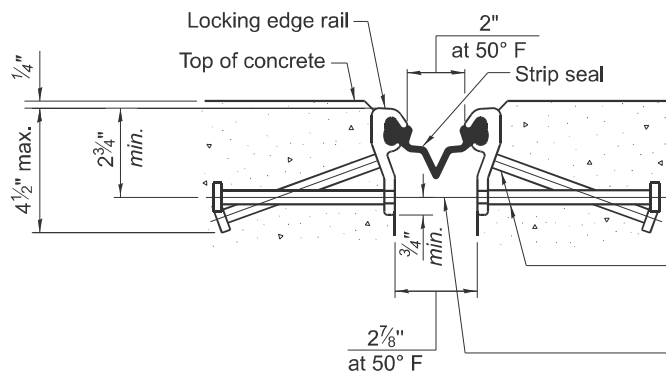
DETAIL A



SECTION F-F



TRIMETRIC VIEW
(Showing embedded plates only)



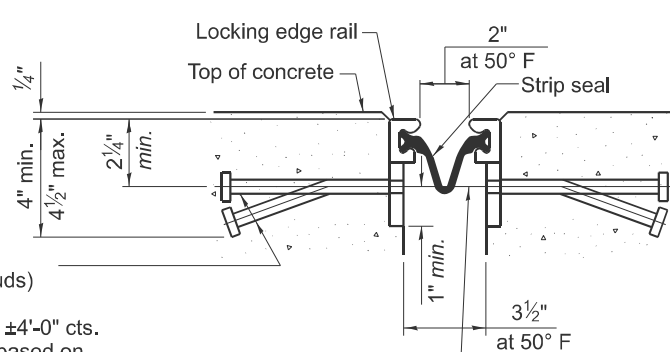
SHOWING ROLLED RAIL JOINT

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

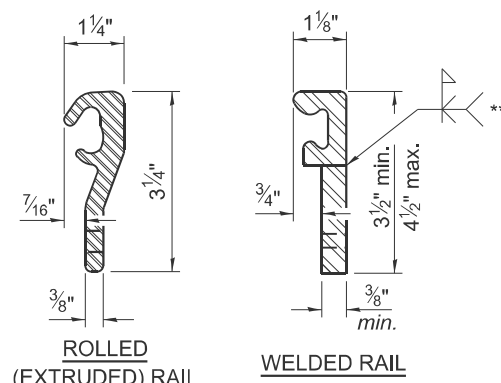
3/8" φ threaded rods in 7/16" φ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION E-E

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

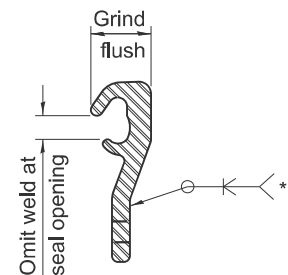


SHOWING WELDED RAIL JOINT



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.

74C96

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	154

(Sheet 1 of 2)

MODEL: Preformed Joint-1 [Sheet]
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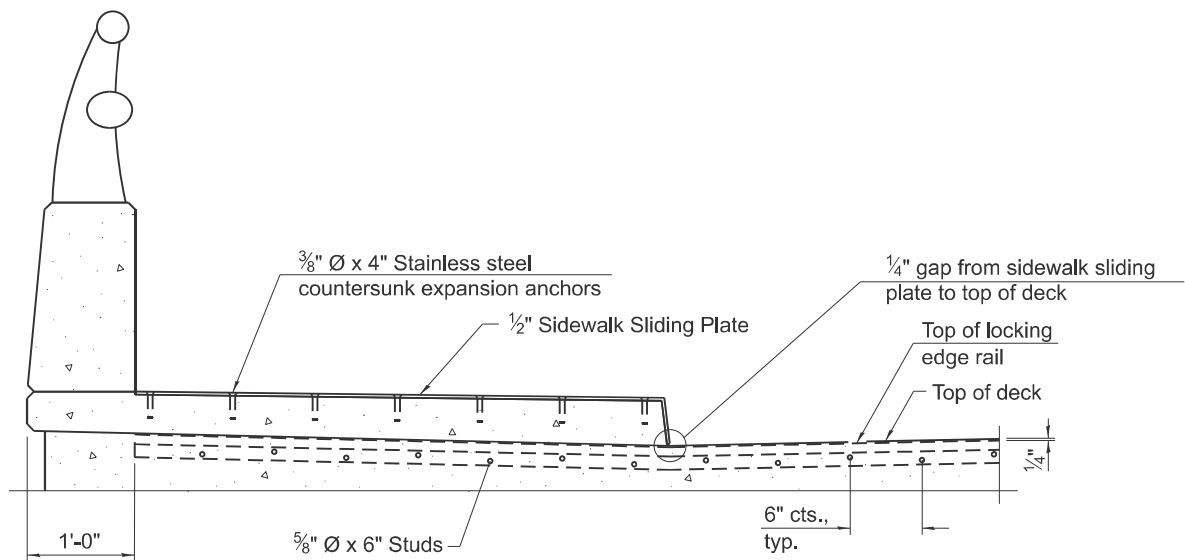
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 10/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

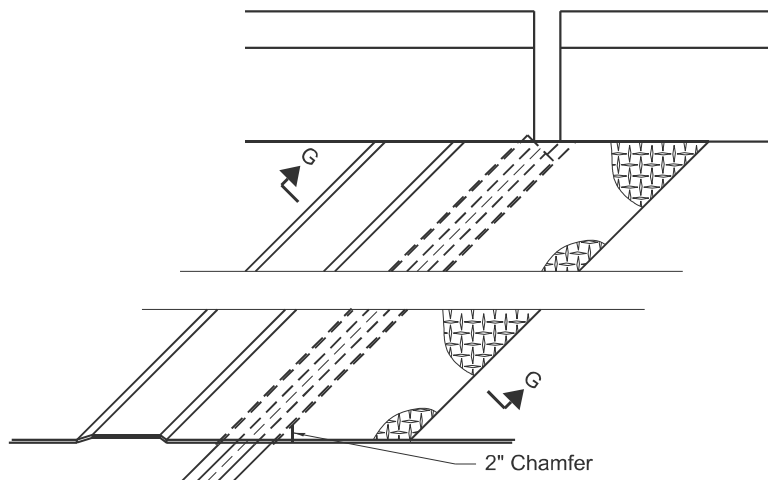
Preformed Joint Strip Seal - Sidewalk
S.N. 025-6004

SCALE: SHEET 6 OF 17 SHEETS STA. TO STA.

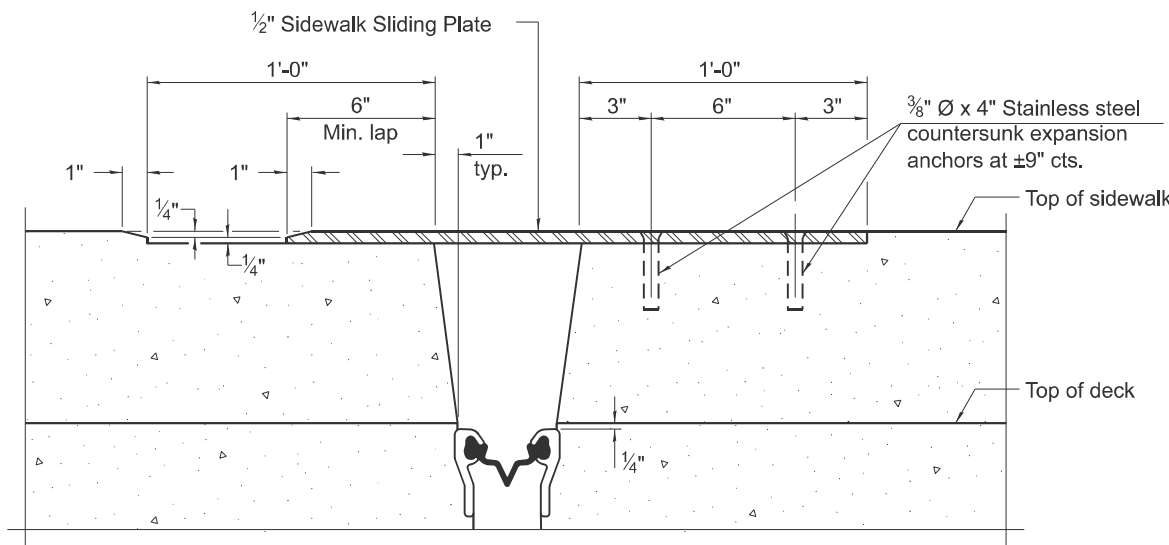
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				



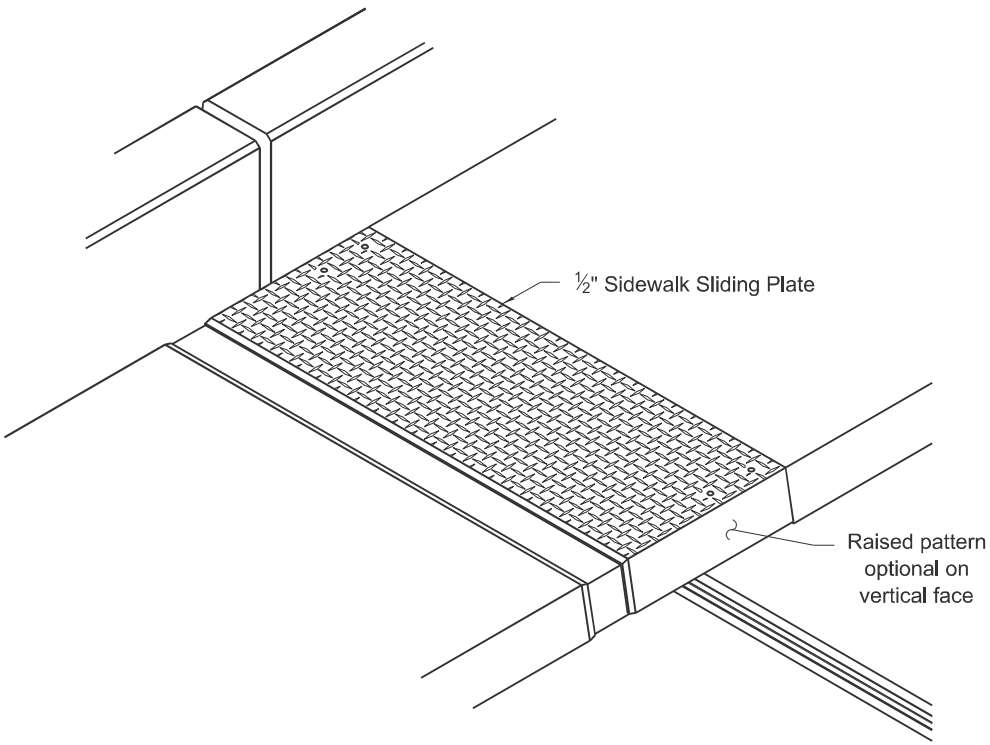
SECTION AT RAISED SIDEWALK



PLAN AT RAISED SIDEWALK



SECTION G-G



TRIMETRIC VIEW

(Sheet 2 of 2)

MODEL: Preformed Joint-2 [Sheet]
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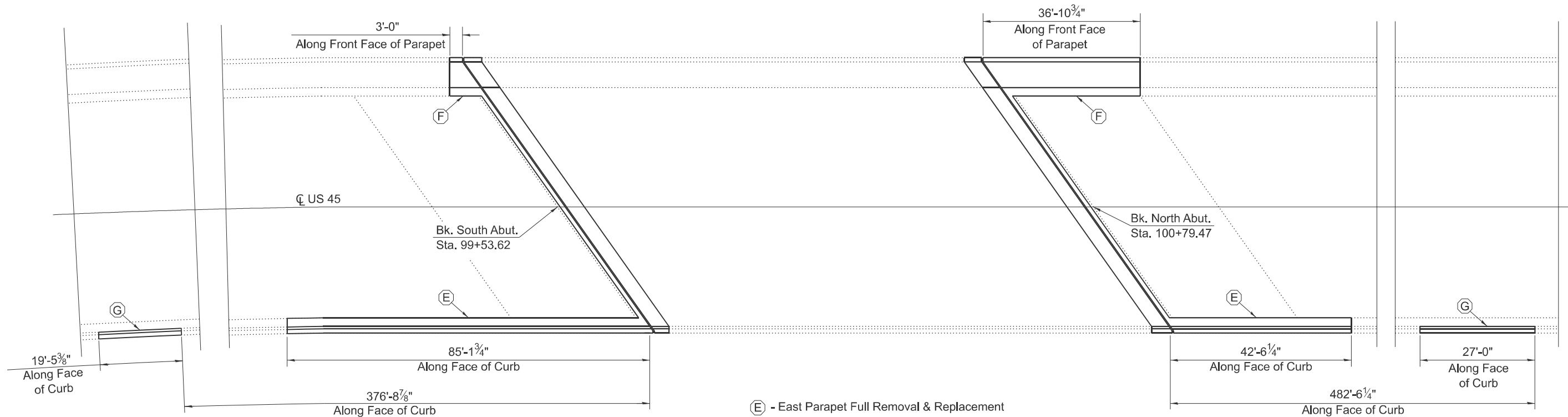
USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 10/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Preformed Joint Strip Seal - Sidewalk
S.N. 025-6004

SCALE: SHEET 7 OF 17 SHEETS STA. TO STA.

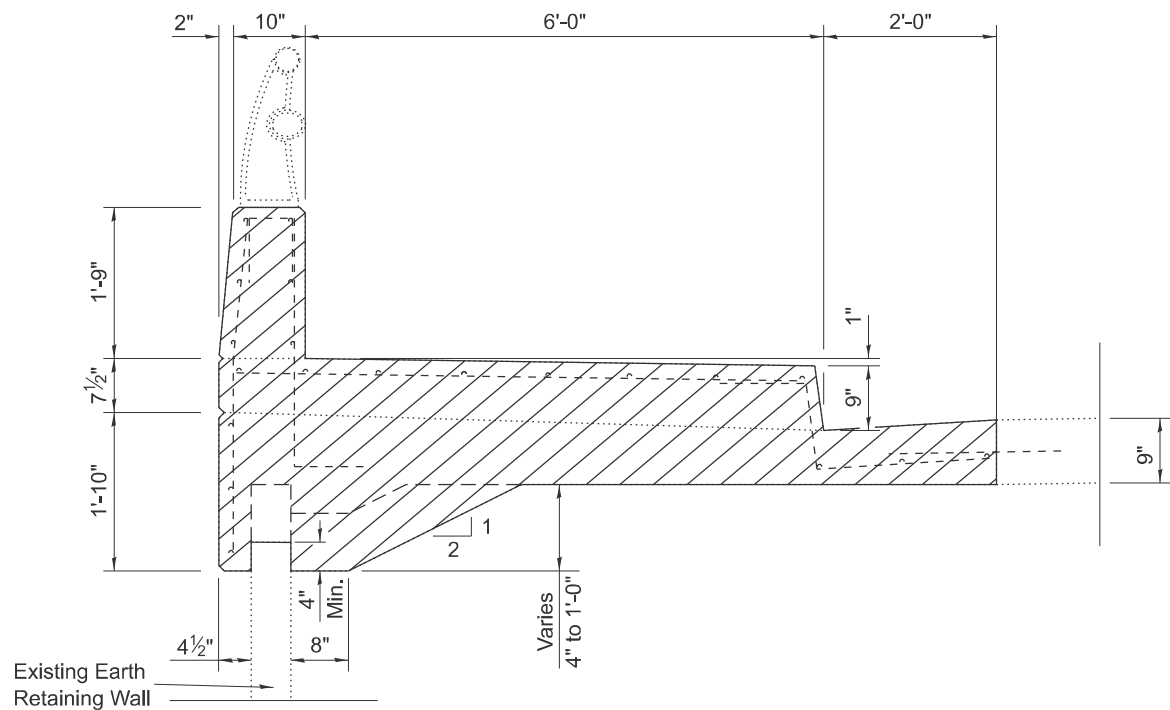
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				



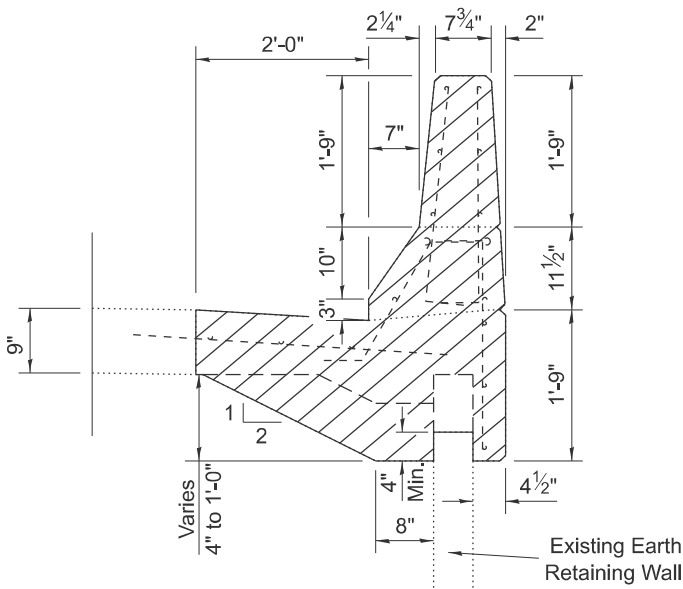
- Ⓔ - East Parapet Full Removal & Replacement
- Ⓕ - West Parapet Full Removal & Replacement
- Ⓖ - East Parapet Partial Removal & Replacement

PLAN VIEW - PARAPET REPLACEMENT

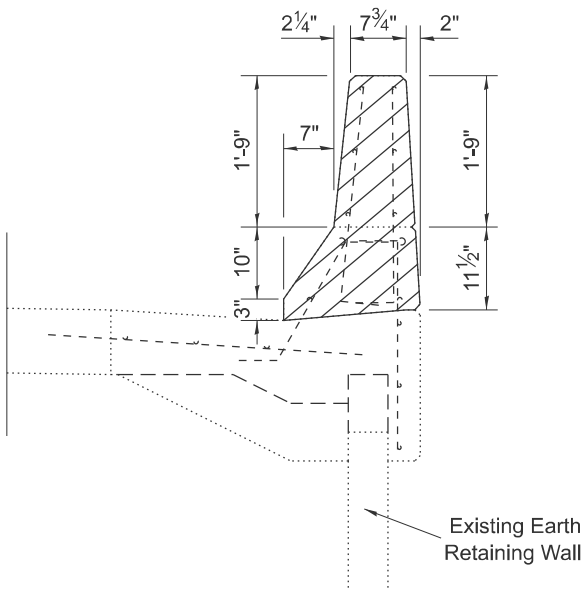
Note: Concrete Removal shall not include any portion of the existing retaining wall panels. The retaining wall panels shall not be disturbed, and the Contractor shall exercise extreme caution when removing concrete near existing wall panels. If the Engineer determines damage to retaining wall panels was due to carelessness on the part of the Contractor, the damage shall be repaired at the Contractor's expense.



SECTION THRU WEST PARAPET - FULL REMOVAL



SECTION THRU EAST PARAPET - FULL REMOVAL



SECTION THRU EAST PARAPET - PARTIAL REMOVAL

Note: Hatched area indicates removal.

MODEL: Parapet-Gen Plans (Sheet)
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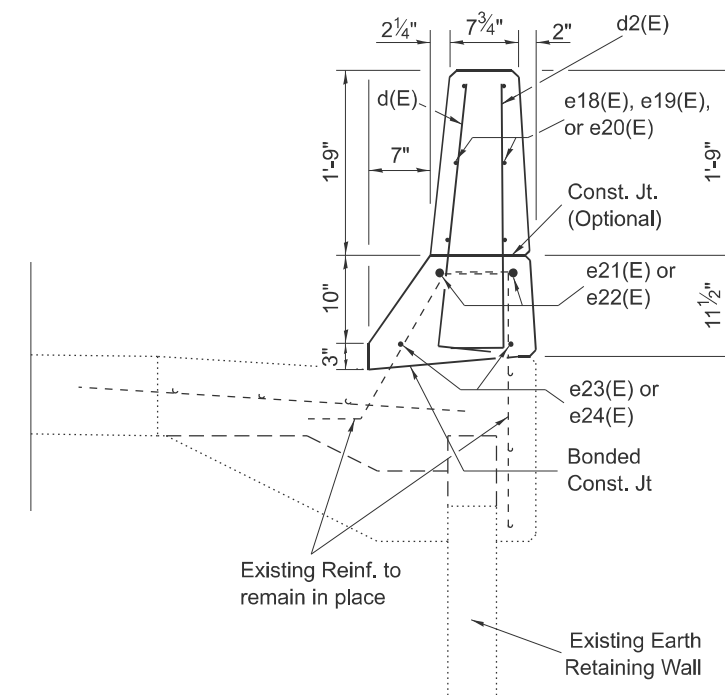
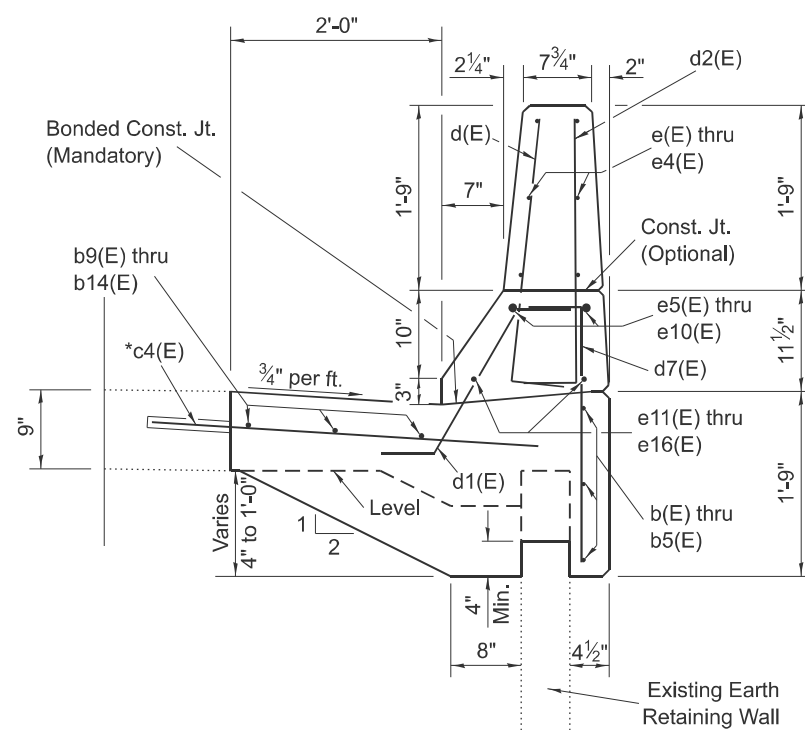
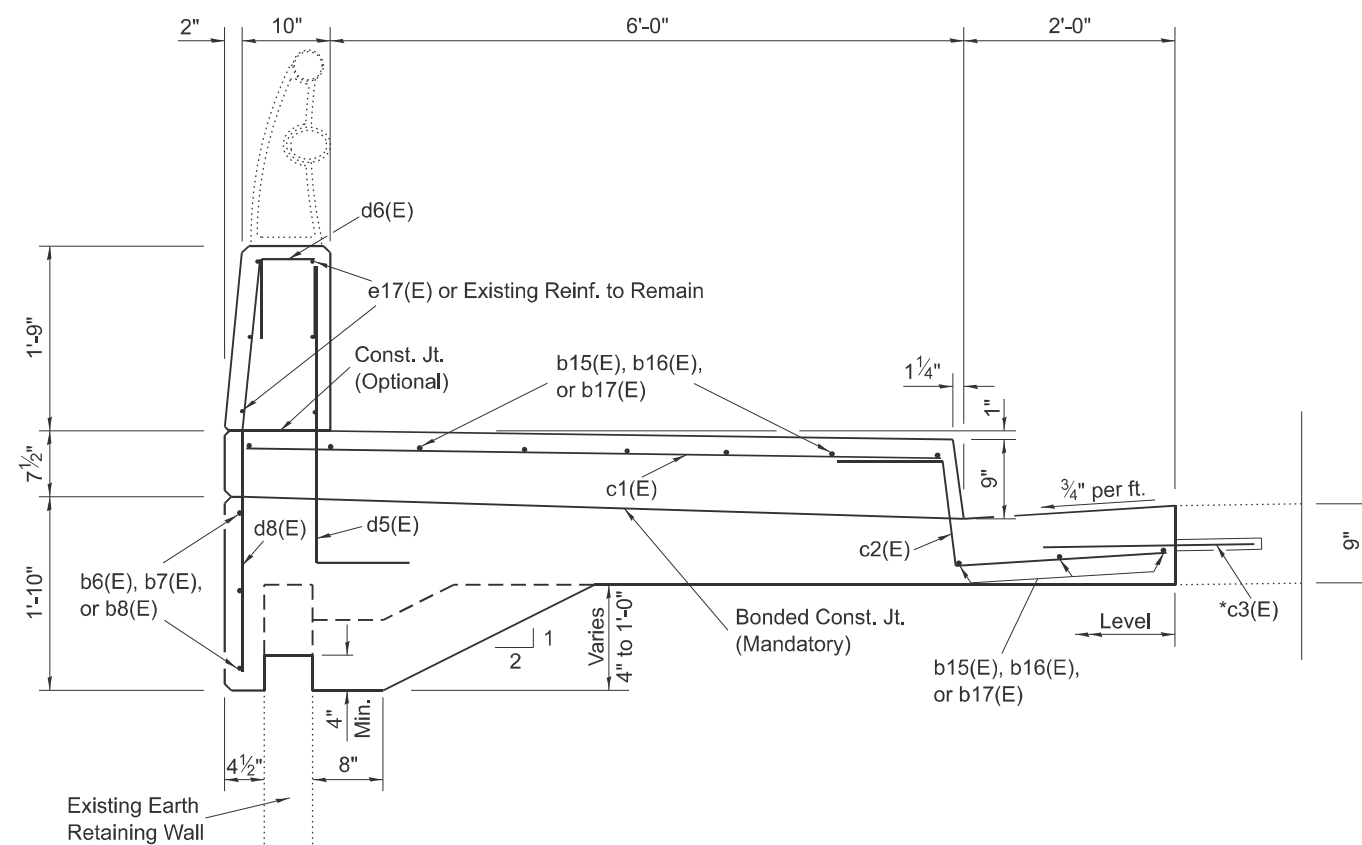
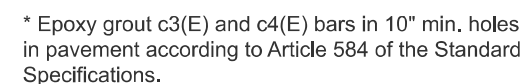
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		DRAWN -	REVISED -
		CHECKED -	REVISED -
	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Parapet Replacement - General Plan
S.N. 025-6004

SCALE: SHEET 8 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	21
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				



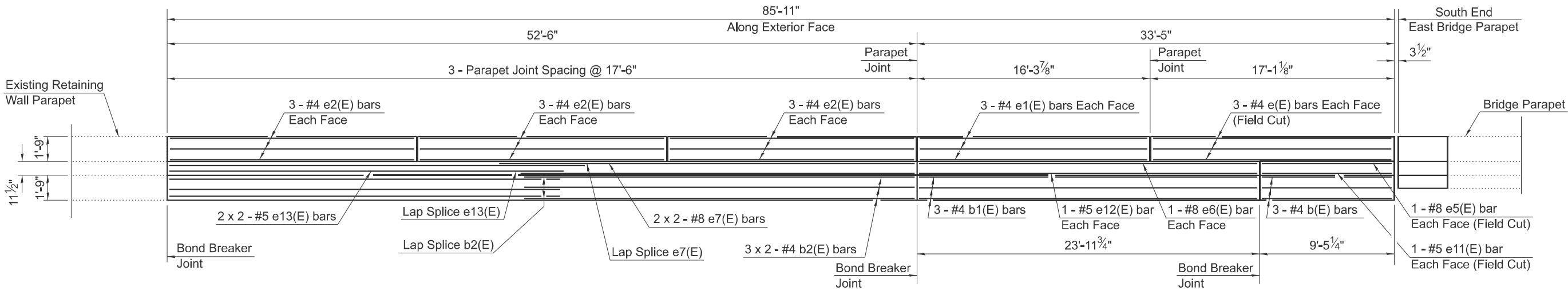


See parapet replacement plan sheets
for joint spacing.

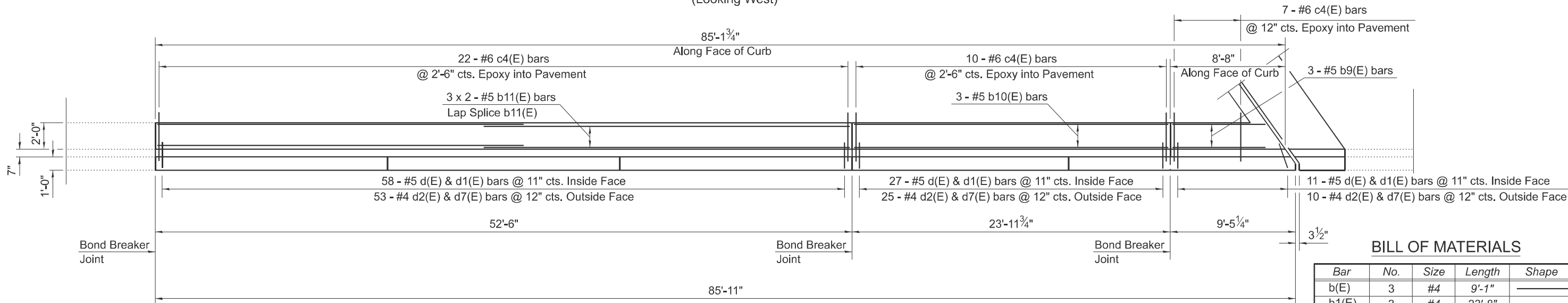


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(12-1)BJR, BDR	EFFINGHAM	30	23
		CONTRACT NO. 74C96		
		ILLINOIS	FED. AID PROJECT	

MODEL: Parapet - Joint Details [Sheet]
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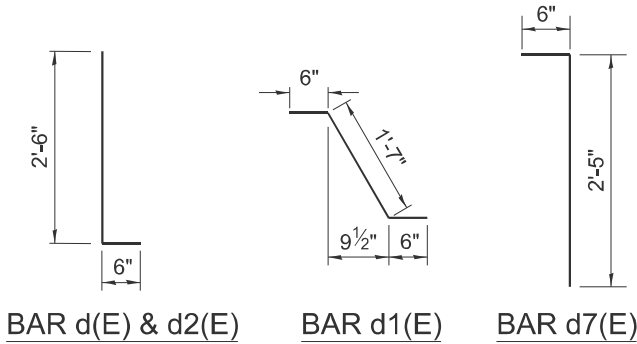
SOUTHEAST PARAPET REPLACEMENT ELEVATION
(Looking West)



SOUTHEAST PARAPET REPLACEMENT PLAN

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
b(E)	3	#4	9'-1"	_____
b1(E)	3	#4	23'-8"	_____
b2(E)	6	#4	27'-4"	_____
b9(E)	3	#5	7'-0"	_____
b10(E)	3	#5	23'-8"	_____
b11(E)	6	#5	27'-7"	_____
c4(E)	39	#6	3'-8"	_____
d(E)	96	#5	3'-0"	L
d1(E)	96	#5	2'-7"	L
d2(E)	88	#4	3'-0"	L
d7(E)	88	#4	2'-11"	L
e(E)	6	#4	16'-8"	_____
e1(E)	6	#4	16'-1"	_____
e2(E)	18	#4	17'-3"	_____
e5(E)	2	#8	9'-1"	_____
e6(E)	2	#8	23'-8"	_____
e7(E)	4	#8	29'-1"	_____
e11(E)	2	#5	9'-1"	_____
e12(E)	2	#5	23'-8"	_____
e13(E)	4	#5	27'-7"	_____
ITEM			UNIT	QUANTITY
Concrete Removal			Cu. Yd.	23.4
Concrete Superstructure			Cu. Yd.	23.4
Reinforcement Bars, Epoxy Coated			Pound	2,580
Structural Repair of Concrete > 5"			Sq. Ft.	36



Notes:

Structural Repair of Concrete (Depth > 5") is intended to repair deteriorated or damaged retaining wall panels where parapet replacement is being done. The included quantity is only approximate. Actual repair locations shall be determined by the Engineer.

The Contractor shall exercise extreme caution when removing concrete near existing retaining wall panels. If the Engineer determines damage to retaining wall panels was due to carelessness on the part of the Contractor, the damage shall be repaired at the Contractor's expense.

Minimum Lap Length

#4 bars - 2'-5"
#5 bars - 3'-0"
#8 bars - 5'-11"

Bars indicated thus "2 x 2 - #5 etc." indicates 2 lines of bars with 2 lengths per line.

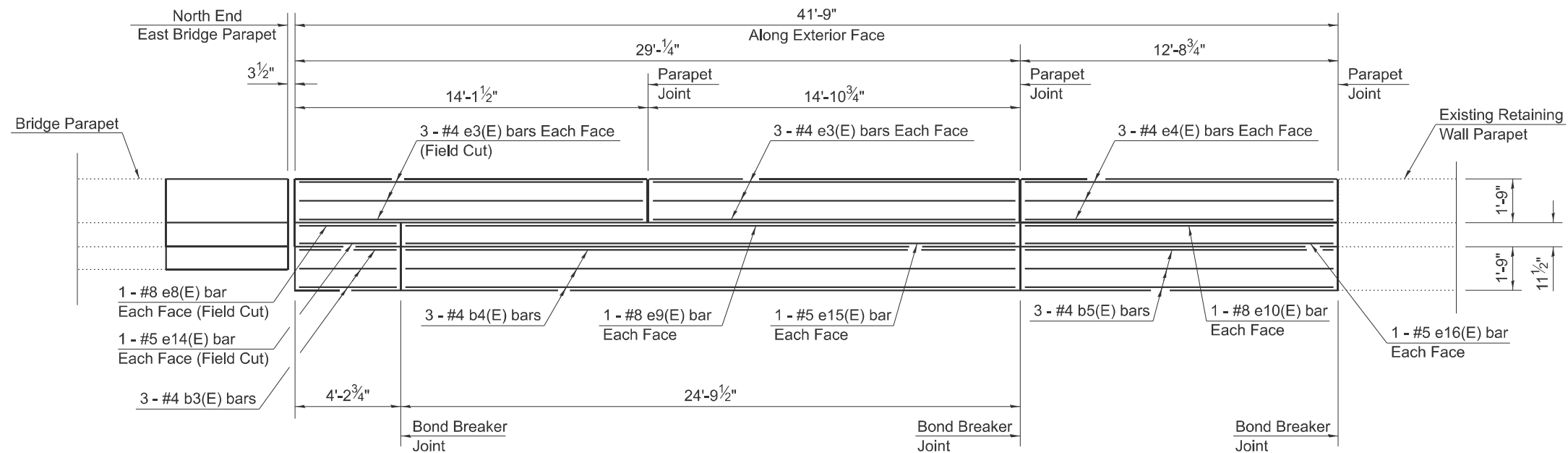
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	DRAWN -	REVISED -
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PLOT DATE = 10/31/2024	DATE -	REVISED -

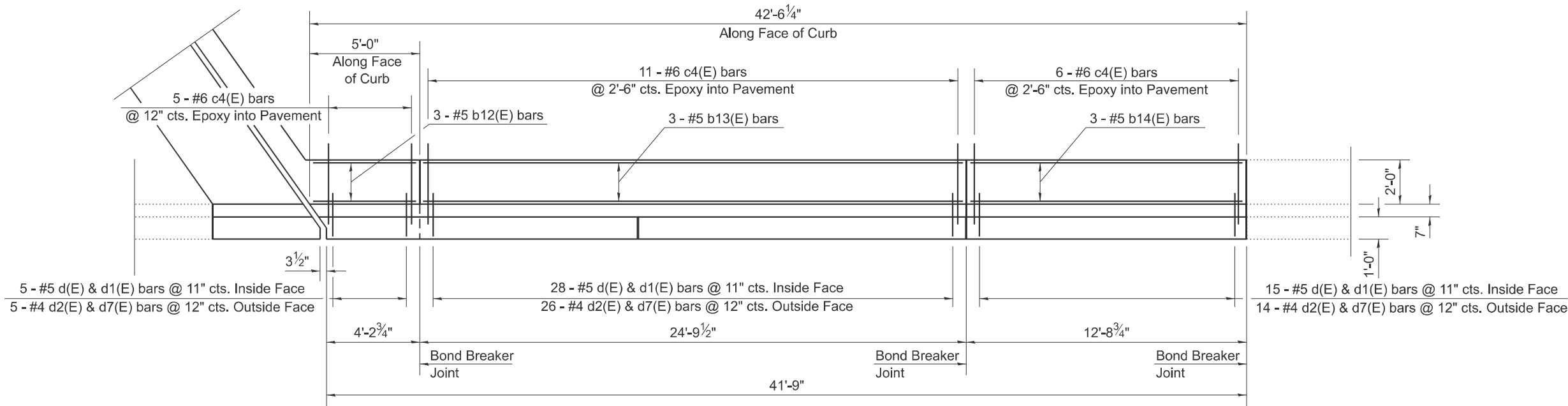
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Southwest Parapet Replacement Plan S.N. 025-6004			
SCALE:	SHEET 11	OF 17 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	24
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				



NORTHEAST PARAPET REPLACEMENT ELEVATION
(Looking West)



NORTHEAST PARAPET REPLACEMENT PLAN

Notes:

Structural Repair of Concrete (Depth > 5") is intended to repair deteriorated or damaged retaining wall panels where parapet replacement is being done. The included quantity is only approximate. Actual repair locations shall be determined by the Engineer.

The Contractor shall exercise extreme caution when removing concrete near existing retaining wall panels. If the Engineer determines damage to retaining wall panels was due to carelessness on the part of the Contractor, the damage shall be repaired at the Contractor's expense.

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
b3(E)	3	#4	4'-8"	
b4(E)	3	#4	24'-6"	
b5(E)	3	#4	12'-5"	
b12(E)	3	#5	4'-8"	
b13(E)	3	#5	24'-6"	
b14(E)	3	#5	12'-5"	
c4(E)	22	#6	3'-8"	
d(E)	48	#5	3'-0"	L
d1(E)	48	#5	2'-7"	L
d2(E)	45	#4	3'-0"	L
d7(E)	45	#4	2'-11"	L
e3(E)	12	#4	14'-7"	
e4(E)	6	#4	12'-5"	
e8(E)	2	#8	4'-8"	
e9(E)	2	#8	24'-6"	
e10(E)	2	#8	12'-5"	
e14(E)	2	#5	4'-8"	
e15(E)	2	#5	24'-6"	
e16(E)	2	#5	12'-5"	
74C96				
ITEM			UNIT	QUANTITY
Concrete Removal			Cu. Yd.	11.5
Concrete Superstructure			Cu. Yd.	11.5
Reinforcement Bars, Epoxy Coated			Pound	1,270
Structural Repair of Concrete > 5"			Sq. Ft.	12

MODEL: Northeast [Sheet]
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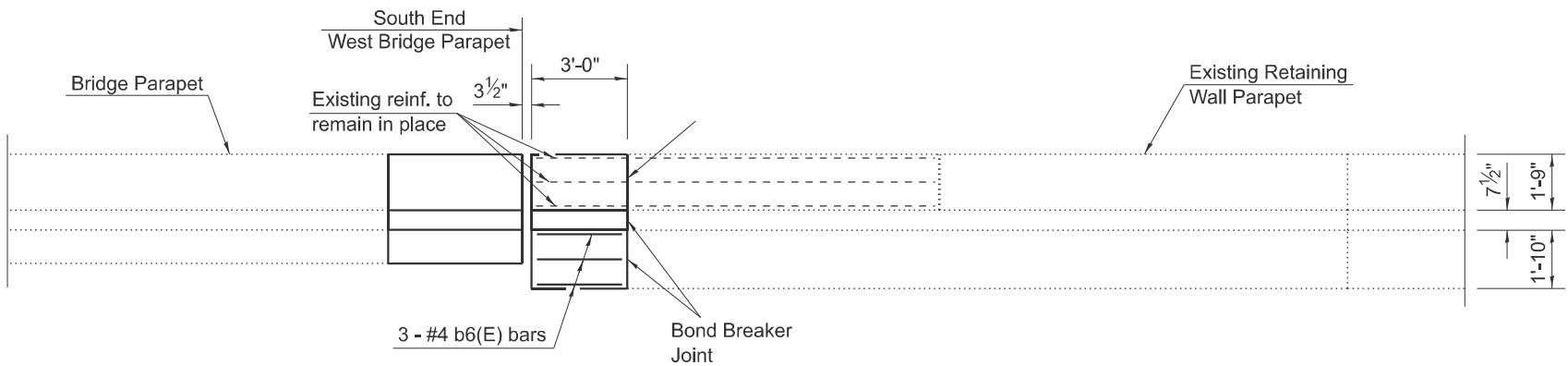
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

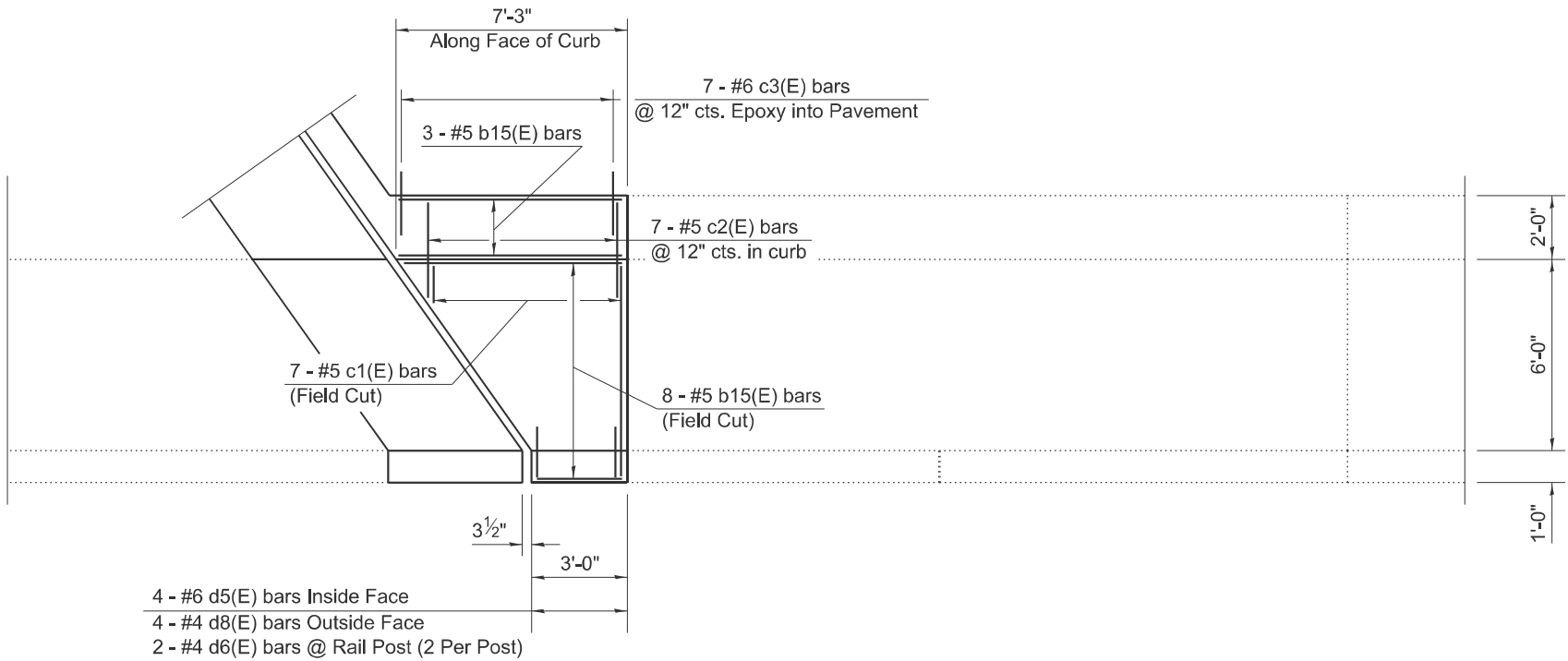
Northeast Parapet Replacement Plan
S.N. 025-6004

SCALE: SHEET 12 OF 17 SHEETS STA. TO STA.

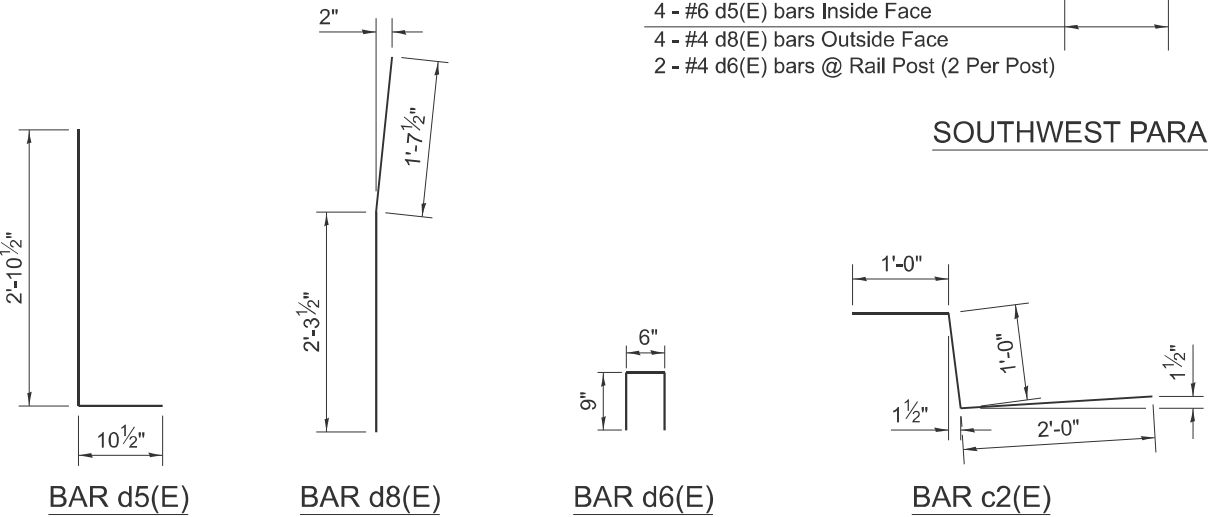
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	25
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				



SOUTHWEST PARAPET REPLACEMENT ELEVATION
(Looking East)



SOUTHWEST PARAPET REPLACEMENT PLAN



Notes:

Structural Repair of Concrete (Depth > 5") is intended to repair deteriorated or damaged retaining wall panels where parapet replacement is being done. The included quantity is only approximate. Actual repair locations shall be determined by the Engineer.

The Contractor shall exercise extreme caution when removing concrete near existing retaining wall panels. If the Engineer determines damage to retaining wall panels was due to carelessness on the part of the Contractor, the damage shall be repaired at the Contractor's expense.

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
b6(E)	3	#4	2'-8"	—
b15(E)	11	#5	7'-0"	—
c1(E)	7	#5	6'-7"	—
c2(E)	7	#5	4'-0"	└┐
c3(E)	7	#6	2'-0"	—
d5(E)	4	#6	3'-9"	└┐
d6(E)	2	#4	2'-0"	┐└
d8(E)	4	#4	3'-11"	└┐
74C96				
ITEM			UNIT	QUANTITY
Concrete Removal			Cu. Yd.	2.4
Concrete Superstructure			Cu. Yd.	2.4
Reinforcement Bars, Epoxy Coated			Pound	220
Structural Repair of Concrete > 5"			Sq. Ft.	6

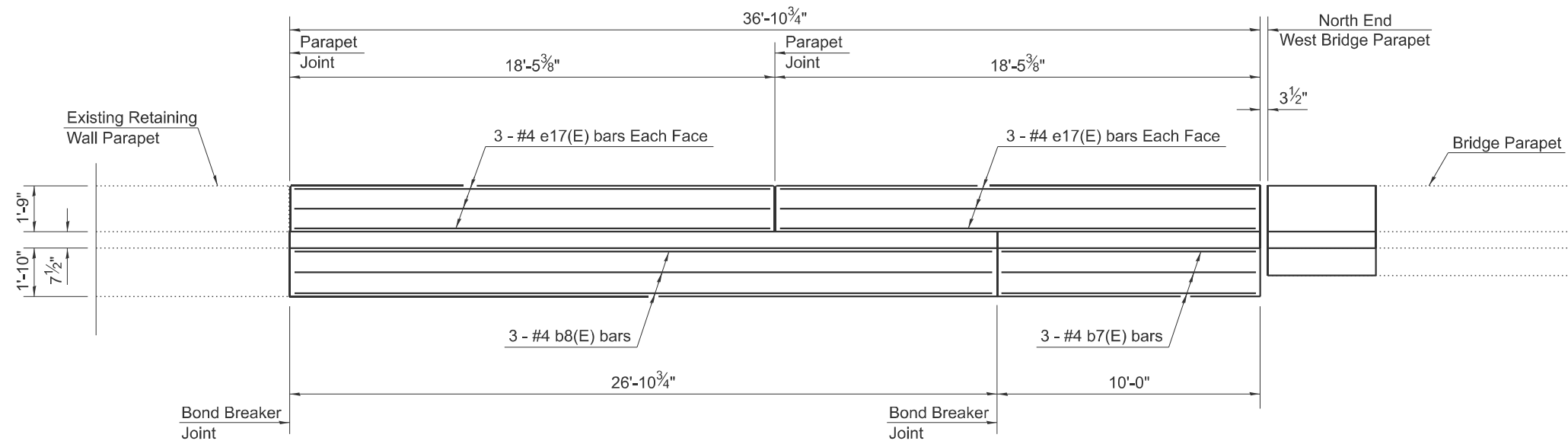
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	DRAWN -	REVISED -
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PLOT DATE = 10/31/2024	DATE -	REVISED -

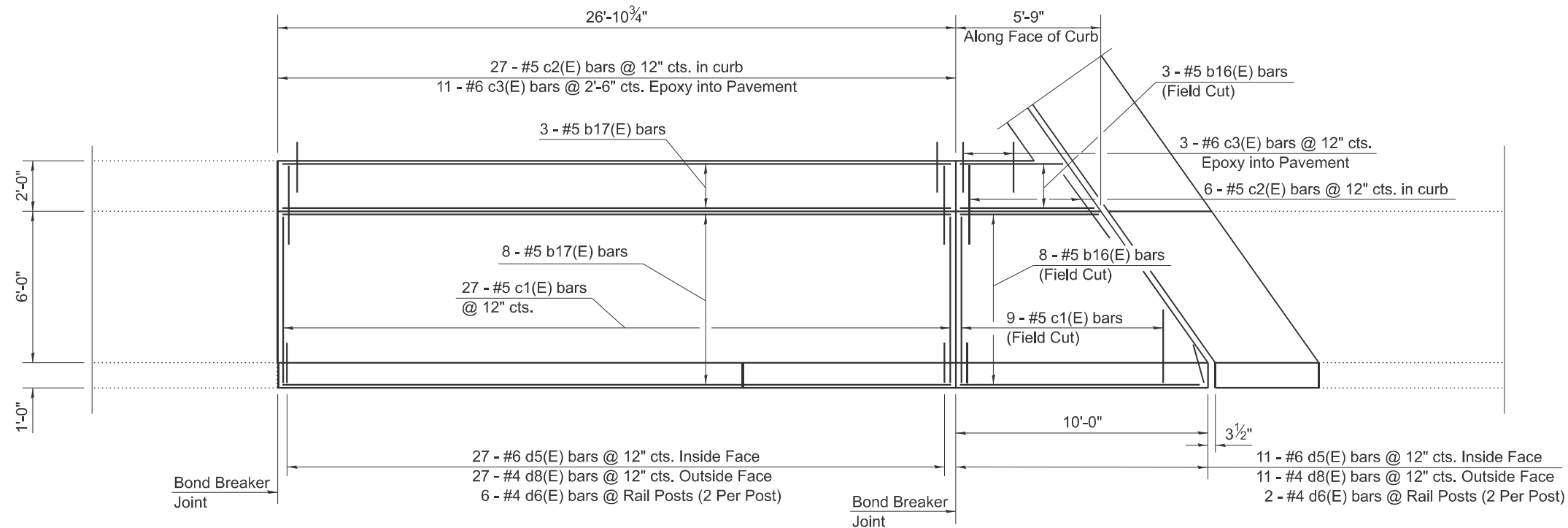
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Southwest Parapet Replacement Plan S.N. 025-6004			
SCALE:	SHEET 13	OF 17 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	26
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				



NORTHWEST PARAPET REPLACEMENT ELEVATION
(Looking East)



NORTHWEST PARAPET REPLACEMENT PLAN

Notes:

Structural Repair of Concrete (Depth > 5") is intended to repair deteriorated or damaged retaining wall panels where parapet replacement is being done. The included quantity is only approximate. Actual repair locations shall be determined by the Engineer.

The Contractor shall exercise extreme caution when removing concrete near existing retaining wall panels. If the Engineer determines damage to retaining wall panels was due to carelessness on the part of the Contractor, the damage shall be repaired at the Contractor's expense.

BILL OF MATERIALS

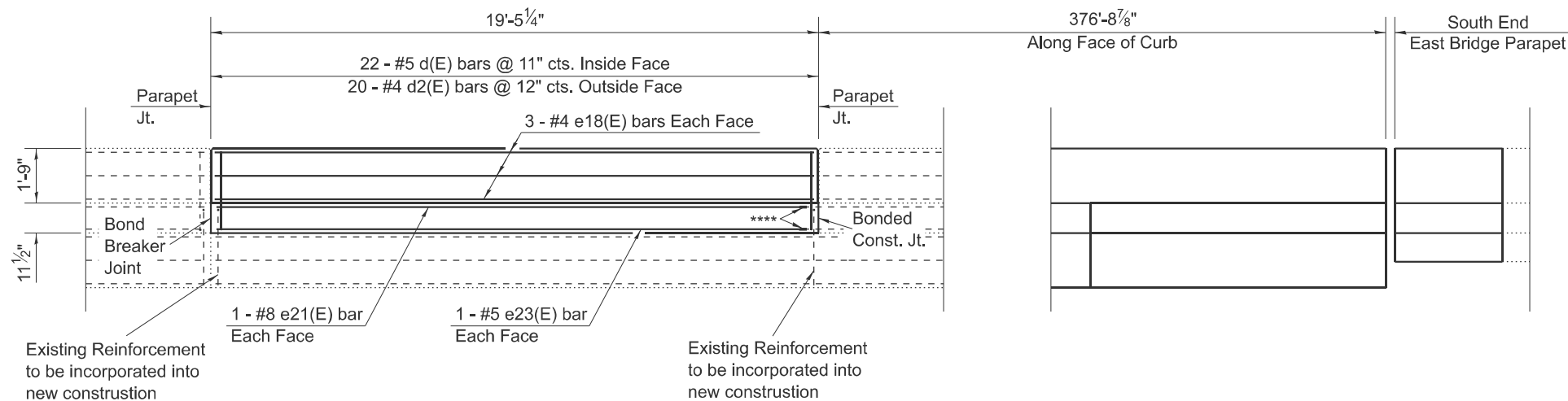
Bar	No.	Size	Length	Shape
b7(E)	3	#4	9'-8"	—
b8(E)	3	#4	26'-6"	—
b16(E)	11	#5	9'-6"	—
b17(E)	11	#5	26'-6"	—
c1(E)	36	#5	6'-7"	—
c2(E)	33	#5	4'-0"	⌒
c3(E)	14	#6	2'-0"	—
d5(E)	38	#6	3'-9"	⌒
d6(E)	8	#4	2'-0"	⌒
d8(E)	38	#4	3'-11"	⌒
e17(E)	12	#4	18'-2"	—
74C96				
ITEM			UNIT	QUANTITY
Concrete Removal			Cu. Yd.	18.7
Concrete Superstructure			Cu. Yd.	18.7
Reinforcement Bars, Epoxy Coated			Pound	1,390
Structural Repair of Concrete > 5"			Sq. Ft.	12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Northwest Parapet Replacement Plan
S.N. 025-6004

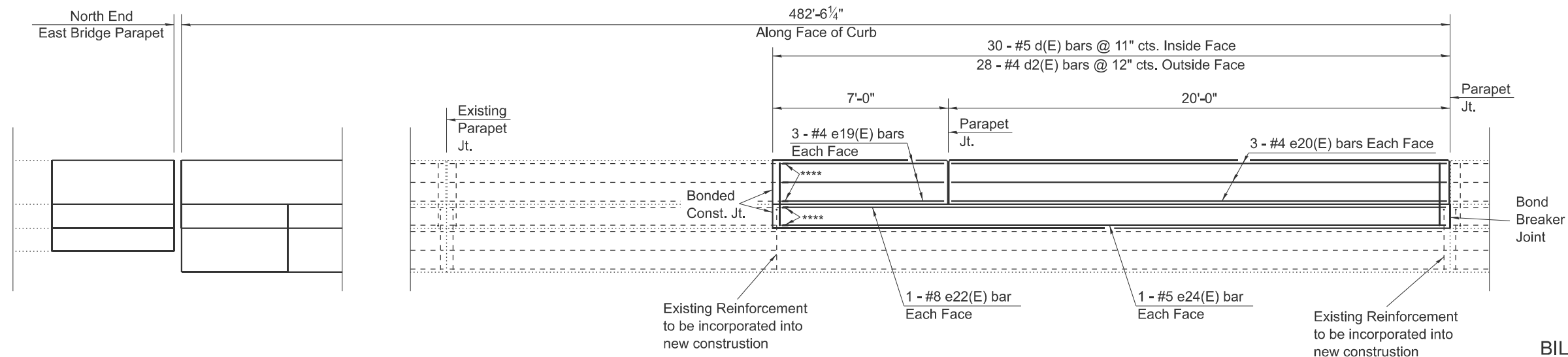
SCALE: SHEET 14 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	27
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				



SOUTHEAST PARAPET PARTIAL REPLACEMENT ELEVATION
(Looking West)

**** Cut existing horizontal reinforment
6" from removal line to facilitate
installation of Mechanical Splicers.



NORTHEAST PARAPET PARTIAL REPLACEMENT ELEVATION
(Looking West)

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
d(E)	52	#5	3'-0"	L
d2(E)	48	#4	3'-0"	L
e18(E)	6	#4	19'-2"	————
e19(E)	6	#4	6'-4"	————
e20(E)	6	#4	19'-9"	————
e21(E)	2	#8	18'-9"	————
e22(E)	2	#8	26'-4"	————
e23(E)	2	#5	18'-9"	————
e24(E)	2	#5	26'-4"	————
74C96				
ITEM			UNIT	QUANTITY
Concrete Removal			Cu. Yd.	4.7
Concrete Superstructure			Cu. Yd.	4.7
Reinforcement Bars, Epoxy Coated			Pound	780
Mechanical Splicers			Each	14

MODEL: Partial East Sheet]
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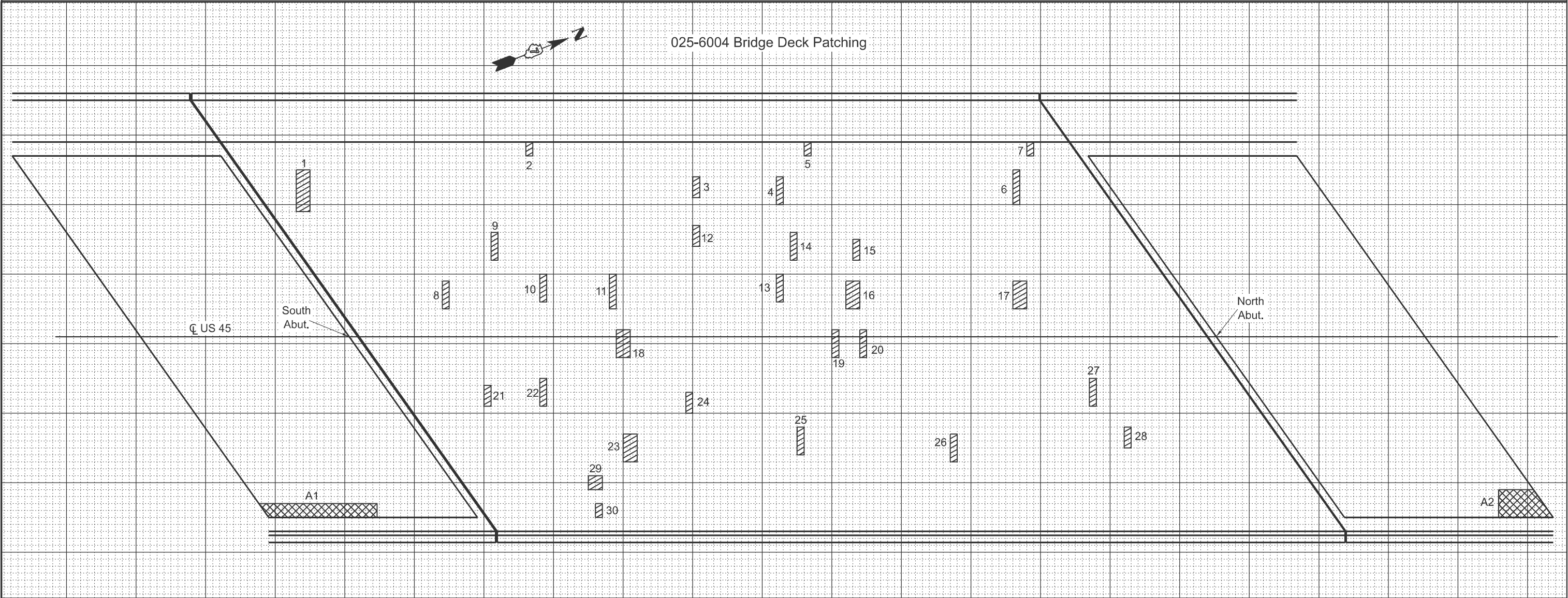
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Partial East Parapet Replacement Plan
S.N. 025-6004

SCALE: SHEET 15 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	28
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				

MODEL: Bridge [Sheet]
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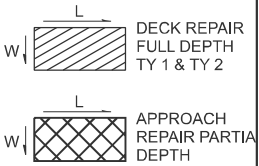
PATCH	SIZE		DECK SLAB REPAIR (FD TYPE I)	DECK SLAB REPAIR (FD TYPE II)
	NO.	LENGTH	WIDTH	SQ YD
	1	2.0	6.0	1.3
	2	1.0	2.0	0.2
	3	1.0	3.0	0.3
	4	1.0	4.0	0.4
	5	1.0	2.0	0.2
	6	1.0	5.0	0.6
	7	1.0	2.0	0.2
	8	1.0	4.0	0.4
	9	1.0	4.0	0.4
	10	1.0	4.0	0.4
	11	1.0	5.0	0.6
	12	1.0	3.0	0.3
	13	1.0	4.0	0.4
	14	1.0	4.0	0.4
	15	1.0	3.0	0.3
	16	2.0	4.0	0.9
	17	2.0	4.0	0.9
	18	2.0	4.0	0.9

PATCH	SIZE		DECK SLAB REPAIR (FD TYPE I)	DECK SLAB REPAIR (FD TYPE II)
	NO.	LENGTH	WIDTH	SQ YD
	19	1.0	4.0	0.4
	20	1.0	4.0	0.4
	21	1.0	3.0	0.3
	22	1.0	4.0	0.4
	23	2.0	4.0	0.9
	24	1.0	3.0	0.3
	25	1.0	4.0	0.4
	26	1.0	4.0	0.4
	27	1.0	4.0	0.4
	28	1.0	3.0	0.3
	29	2.0	2.0	0.4
	30	1.0	2.0	0.2
TOTAL ROUNDS TO:			10	5

PATCH	SIZE		APPROACH REPAIR (PART. DEPTH)
	NO.	LENGTH	
A1	15.5-17.0	2.0	3.6
A2	5.0-8.0	4.0	2.9
TOTAL ROUNDS TO:			7

Notes: All Raised Reflective Pavement Markers shall be removed from the bridge deck surface. These areas shall be repaired as Deck Slab Repair (Partial). The minimum dimensions for a partial patch shall be 1 ft. x 1 ft.

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 4-17-24
SURVEY BY: DPM & DRL
METHOD OF SURVEY: VISUAL

ESTIMATED
PAY QUANTITIES:

DECK SLAB REPAIR
(FULL DEPTH TYPE I)
10 SQ YD

DECK SLAB REPAIR
(FULL DEPTH TYPE II)
5 SQ YD

DECK SLAB REPAIR
(PARTIAL)
ESTIMATED - 30 SQ YD

APPROACH SLAB REPAIR
(PARTIAL DEPTH)
7 SQ YD

RRPM REMOVAL
37 Each

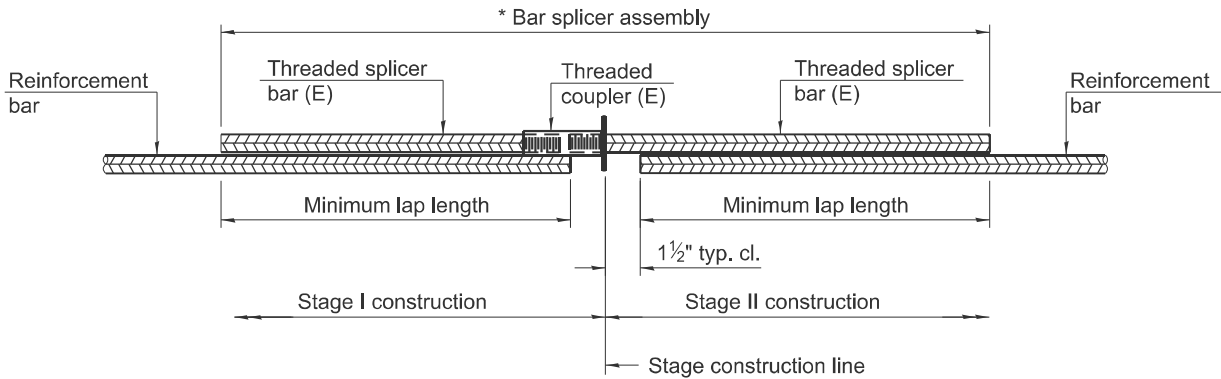
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		CHECKED -	REVISED -
	PLOT DATE = 10/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bridge Deck Patching
S.N. 025-6004

SCALE: SHEET 16 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	29
CONTRACT NO. 74C96				
ILLINOIS FED. AID PROJECT				



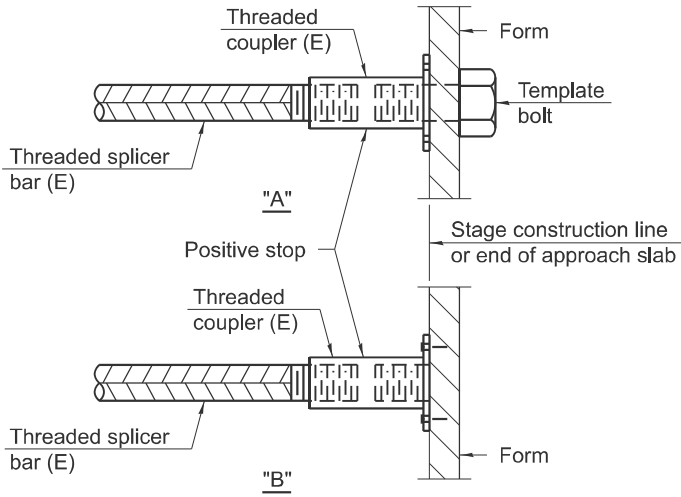
STANDARD BAR SPLICER ASSEMBLY PLAN

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

Threaded splicer bar length = min. lap length + 1½" + thread length

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

Location	Bar Size	No. assemblies required	Minimum lap length
Deck	#5	28	3'-2"
Abutment	#6	8	4'-0"

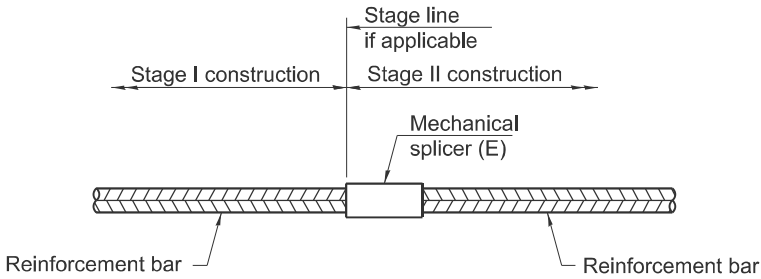


INSTALLATION AND SETTING METHODS

"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
SE Parapet	#5	2
SE Parapet	#8	2
NE Parapet	#4	6
NE Parapet	#5	2
NE Parapet	#8	2

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

BSD-1

5-15-2023

MODEL: Bar [Sheet]
FILE NAME: c:\p\work\hille\hille\ad0977188\025-5004 Bridge Repair Plans.dgn

USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 10/31/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bar Splicer Assembly and Mechanical Splicer Detail	
S.N. 025-6004	
SCALE:	SHEET 17 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328A	(1Z-1)BJR, BDR	EFFINGHAM	30	30
CONTRACT NO. 74C96				
		ILLINOIS	FED. AID PROJECT	