06-16-2017 LETTING ITEM 029

### STATE OF ILLINOIS

### **DEPARTMENT OF TRANSPORTATION**

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### D-95-034-17

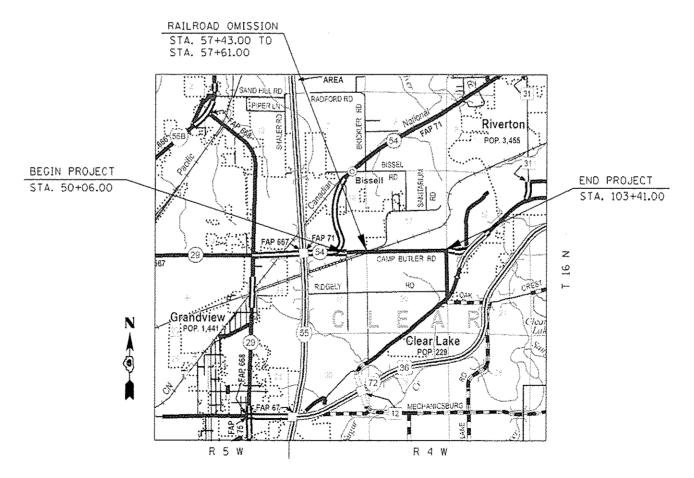


LOCATION OF SECTION INDICATED THUS: -

# PROPOSED HIGHWAY PLANS

FAU ROUTE 7968 (CAMP BUTLER RD)
SECTION (79) RS-5
PROJECT STP-7968(002)
3P RESURFACING
SANGAMON COUNTY

C-96-034-17



ADT (2012) = 6,000 SU = 400 MU = 200

## HIGHWAY STANDARDS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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000001-06 001006 542401-02 701006-05 701201-04 701301-04 701306-03 701311-03 701901-06 780001-05

781001-04

0 100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 20'

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

PROJECT ENGINEER JAY EDWARDS (217)785-0597 PROJECT MANAGER GLENN STARKE (217)524-0066

GROSS LENGTH = 5335.00 FT. = 1.010 MILE NET LENGTH = 5255.00 FT. = 0.995 MILE

NET LENGTH = 5255.00 F

CONTRACT NO. 72J70

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 29 March 20 7

REGIONAL ENGINEER

AND TS FERMINEER OF DESIGN AND ENVIRONMENT

MOUNT 12 20 17

ADDITION 20 2

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### GENERAL NOTES

- 1. IN ADDITION TO FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- 2. ACCESS TO ALL ENTRANCES AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES.
- 3. THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 4. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

BITUMINOUS CONCRETE SURFACE AGGREGATE MATERIAL BITUMINOUS MATERIALS (TACK COAT) 0.056 TON/SO. YD. PER 1" 2.05 TON/CU. YD. 0.025 POUND/SO. FT.

- 5. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REINSTALL THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT, AND NO COMPENSATION WILL BE ALLOWED.
- 6. WHERE SECTION OR SUB-SECTION MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- 7. LIMITS OF CONSTRUCTION ALONG SIDE ROADS SHALL BE VERIFIED AND APPROVED BY THE ENGINEER BEFORE WORK BEGINS. LIMITS MAY BE ADJUSTED FROM PROPOSED PLAN LAYOUT IF ENGINEER DEEMS NECESSARY.
- 8. NO PASSING ZONES TO BE FIELD VERIFIED BY THE BUREAU OF OPERATIONS. THE RESIDENT ENGINEER SHALL NOTIFY THE BUREAU OF OPERATIONS AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PERMANENT PAVEMENT MARKING, (PH: 217-782-7314)

#### COMMITMENTS

 THE RESIDENT ENGINEER SHALL CONTACT STUDIES & PLANS CONCERNING ANY MAJOR PLAN CHANGE TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN AND ALLOW AN IMPROVED DESIGN FOR FUTURE PROJECTS.

#### INDEX OF SHEETS

- 1 COVER SHEET
  2 GENERAL NOTES
- 3 4 SUMMARY OF QUANTITIES
- 5 6 SCHEDULES
- 7 TYPICAL SECTIONS
- 8 10 PLAN SHEETS
- 11 BUTT JOINT DETAILS
- 12 13 ENTRANCE DETAILS

#### MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location(s):	CAMP BUTLER MAINLINE	
Mixture Use(s):	Surface	
PG;	PG 64-22	
Design Air Volds:	4.0% <b>c</b> N50	
Mixture Composition:	IL 9.5	
Friction Aggregate:	Mix "D"	
Quality Management:	• (SEE NOTE)	
Sublot Size:	600 Tons	

Location(s):	CAMP BUTLER MAINLINE
Mixture Use(s):	Leveling Binder
PC:	PG 64-22
Design Air Voids:	4.0% <b>©</b> N50
Mixture Composition:	IL 9.5 FG
Friction Aggregate:	N/A
Quality Management:	· OC / OA
Sublot Size:	N/A

Location(s):	ENTRANCES / SIDEROADS
Mixture Usa(s):	Incidental Surfacing
PG:	PG 64-22
Design Air Voids:	4.0% <b>c</b> N50
Mixture Composition:	IL 9.5
Friction Aggregate;	Mi× C
Quality Management:	QC / QA
Sublet Size:	N/A

• NOTE: DENSITY SUBLOTS HAVING A RANDOM CORE LOCATION WITH AN OFFSET GREATER THAN 12" WILL HAVE A SUBLOT PAY FACTOR OF 100% IF ALL DENSITY INTERVALS ARE WITHIN ACCEPTABLE LIMITS.

	DISTRIC	T SIX	
EXAMINED	March	8th	20 <u>17</u>
OPERATIONS	ENGINEER	June	

- 1		
	EXAMINED March 16 20 17	
	Sum ( Show	
	PROJECT IMPLEMENTATION ENGINEER	

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SHEET

GENERAL NOTES			F.A.U. RTE.	F.A.U. SECTION		COUNTY TOTAL SHEETS		
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			****			CONTRACT	NO. 7	72J70
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CONSTR. CODE 6-01020-0000 FEDERAL 80%/STATE 20%

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		***		ROADWAY
CODE		***************************************	TOTAL	0005
NO.	ITEM	UNIT	OUANT1TY	URBAN
10200800	AGGREGATE SURFACE COURSE, TYPE B	TON	67	67
10200000	AGONEGATE SURFACE COURSE, TIPE O	101	0 !	01
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8019	8019
			POLITICAL PARK BASE BASE BASE BASE BASE BASE BASE BASE	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	700	700
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1851	1851
40600990	TEMPORARY RAMP	SO YD	113	113
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1401	1401
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	107	107
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	438	438
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	438	438
48102100	AGGREGATE WEDGE SHOULDER. TYPE B	TON	383	383
50104400	CONCRETE HEADWALL REMOVAL	EACH	8	8
				-
50105220	PIPE CULVERT REMOVAL	FOOT	132	132
54200220	PIPE CULVERTS, CLASS D. TYPE 1 15"	FOOT	220	220
57100100	MOBILIZATION	LSUM		1

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STATI	E OI	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE:

	SUMMA	RY OF QUANTITIES		F.A.U. RTÉ.	SECTION	COUNTY	TOTAL	SHEET NO.	
			÷	7968	(79) RS-5	SANGAMON	13	3	
						CONTRACT	NO.	2370	
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CONSTR. CODE
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FEDERAL 80%/STATE 20%
ROADWAY

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	ATUM		0000	O, O, III
70100450	TRAFFIC CONTROL AND PROTECTION. STANDARD 701201	LSUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	200	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1641	1641
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	182	182
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	14512	14512
78004200	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS	SO FT	122.4	122.4
78004280	PREFORMED PLASTIC PAVEMENT MARKING. TYPE B - INLAID - LINE 24"	FOOT	66	66
78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	14512	14512
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	56	66
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	66	66
(4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	17006	17006
(7015005	CHANGEABLE MESSAGE SIGN	CAL DA	60	60
(0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM		1

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					PAVING SCHE	DIII E		
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LC	CATI	ON	LENGTH	WIDTH	HMA SURFACE REMOVAL, VARIABLE DEPTH, 3/4"	BITUMINOUS MATERIALS (TACK COAT)	HMA LEVELING BINDER (MACHINE METHOD), 3/4"	HMA SURFACE COURSE, MIX D, N50, 1 1/2"
STATION	TO	STATION	FT	FT	SQ YD	POUND	TON	TON
50+06.00	TO	52+00.00	194	30	723	325.5	27.2	54.3
52+00.00	TO	57+43.00	543	27	1886	848.6	68.4	136.8
53+82.00	TO	55+65.00	RT TUR	N LANE	148	66.7	6.2	12.5
RAILROAD	OMI	SSION STA.	57+43.00	TO STA.	57+61.00			
57+61.00	TO	103+41.00	4580	28	14249	6412	598.5	1196.9
				TOTAL	17006	7653	700	1401

	SHOULDER SCHEDULE										
LC	CATI	ON		LENGTH	WIDTH	THICKNESS	AGGREGATE WEDGE SHOULDERS, TYPE B				
STATION	TO	STATION	LT/ RT	FT	FT	IN	TON				
50+74.00	TO	52+31.00	RT	157	2-10	2	11.9				
52+31.00	TO	53+20.00	RT	89	10	2	11.3				
53+20.00	TO	55+10.00	RT	190	10-2	2	14.4				
57+62.00	TO	103+41.00	RT	4579	3	2	173.8				
58+30.00	TO	103+41.00	LT	4511	3	2	171.3				
					TOTAL		383				

						PAVEME	NT MARKING SCHEDULE				
	1.0	OCATION		MODIFIED MA	URETHANE F RKING, LINE	PAVEMENT 5"	PREFORMED PLASTIC PAVEMENT MARKING,	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID - LETTERS AND	SHORT TERM PAVEMENT	SHORT TERM PAVEMENT	TEMPORARY PAVEMENT
	L	CATION		WHITE	YELI	LOW	TYPE B, INLAID,LINÉ - 24"	LETTERS AND	MARKING	MARKING	MARKING, LINE
				SOLID	SKIP DASH	SOLID	- 24"	SYMBOLS		REMOVAL	5
STATION	TO	STATION	LT/RT	FT	FT	FT	FT	SQ FT	FT	SQ FT	FT
50+06.00	TO	51+29.00	ВОТН	246		496			25	8.3	742
51+29.00	TO	64+46.00	RT	1317		1317			132	44.0	2634
51+29.00	TO	52+70.00	LT	141		141					282
55+32.00			RT				11				
55+46.00	TO	55+66.00	RT					61.2			
55+78.00			RT				11				
56+32.00			RT				11				
52+70.00	TO	53+81.00	LT			111					111
53+81.00	TO	55+66.00	LT	185		185					370
55+66.00	TO	57+23.00	LT			157					157
57+23.00	TO	64+46.00	LT	723		723					1446
58+71.00			LT				11				
59+24.00			LT				11				
59+39.00	TO	59+59.00	LT					61.2			
59+71.00			LT				11				
64+46.00	TO	103+41.00	вотн	7790	980				390	130.0	8770
				10.100	222	7470			7 1000		
			SUBTOTAL	10402	980	3130			3 APPS		
			TOTAL		14512		66	122.4	1641	182	14512

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						SIDERUAD.	S AND ENTRANCES S	T I		Ī	
LOCA	TION	TYPE	LENGTH	WIDTH FRONT	WIDTH BACK	AREA	HMA SURFACE REMOVAL - BUTT JOINT	DRIVEWAY PAVEMENT REMOVAL	PCC DRIVEWAY PAVEMENT, 8"	BITUMINOUS MATERIALS (TACK COAT)	INCIDENTAL HM SURFACING
STATION	LT / RT		FT	FΤ	FT	SQ FT	SQ YD	SQ YD	SQ YD	POUND	TON
53+38.00	LT	SR	48	103	32	3240	360			81	30.2
56+18.00	LT	SR	91	177	31	4080	453			102	38.1
65+00.00	LT	PE	10	26	18	220	24			11	4.1
65+62.00	LT	PE	10	38	20	290	32			15	5.4
66+82.00	LT	PE	10	66	24	450	50			23	4.2
68+14.00	LT	PE	10	54	28	410	46			21	3.8
69+79.00	LT	CE	10	62	37	495		55	55		
70+42.00	RT	PE	10	34	16	250	28			13	4.7
71+37.00	RT	PE	10	24	12	180	20			9	3.4
71+37.00	LT	MB	4	76	27	206	23			10	1.9
73+05.00	LT	CE	10	69	41	550		61	61		
77+13.00	LT	CE	10	80	40	600		67	67		
79+45.00	LT	CE	10	50	31	405		45	45		
80+65.00	RT	CE	10	55	43	490		54	54		
81+91.00	LT	CE	10	72	38	550		61	61		
83+78.00	RT	PE	10	22	12	170	19			9	3.2
85+76.00	LT	CE	10	53	33	430		48	48		
87+72.00	LT	CE	10	53	32	425		47	47		
91+77.00	LT	PE	10	37	16	265	29			13	2.5
101+90.00	LT	PE	10	28	16	220	24			11	2.1
103+10.00	LT	PE	10	44	36	400	44			20	3.7
						TOTAL	1153	438	438	336	107

BUTT JOINTS AND TEMPORARY RAMPS SCHEDULE										
		BUTT JO	INIS AND	TEMPURAR	Y RAMPS SCHEDULE					
LC	CATI	NC	LENGTH	WIDTH	HMA SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP				
STATION	TO	STATION	FT	FT	SQ YD	SQ YD				
50+06.00	TO	50+36.00	30	31	103.3	17.2				
56+66.00	TO	57+43.00	30 + SKEW	30	242.3	39.4				
57+61.00	TO	58+37.00	30 + SKEW	30	252.6	39.4				
103+11.00	TO	103+41.00	30	30	100.0	16.7				
				TOTAL	698	113				

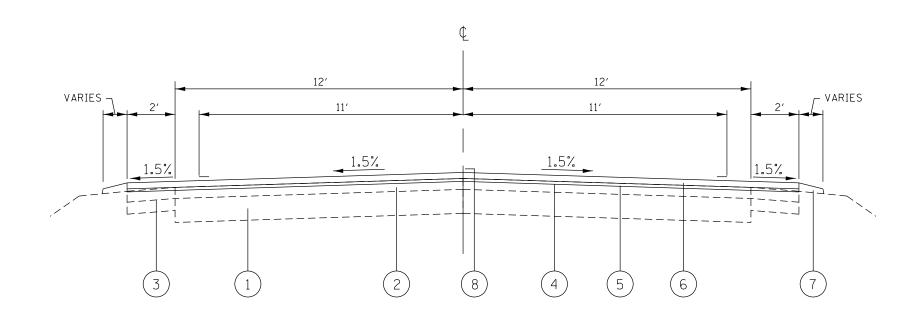
		R	AISED REF	LECTOR SCHEDULE	
LC	CATIO	ON	LENGTH	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER
STATION	TO	STATION	FT	EACH	EACH
50+06.00	50+06.00 TO 57+12.00			9	9
57+92.00	TO	103+41.00	4549	57	57
			TOTAL	66	66

		PIPE CULVERT S	SCHEDULE		
LOCATION		PIPE CULVERT REMOVAL	CONCRETE HEADWALL REMOVAL	PIPE CULVERTS, CLASS D, TYPE 1, 15"	AGGREGATE SURFACE COURSE, TYPE B
STATION	LT / RT	FT	EACH	FT	TON
65+00.00	LT	28	2	36	10.9
65+62.00	LT	28	2	36	10.9
69+59.00	RT	16		40	12.5
70+43.00	RT	24	2	36	10.9
71+37.00	RT	18	2	36	10.9
83+78.00	RT	18		36	10.9
	TOTAL	132	8	220	67

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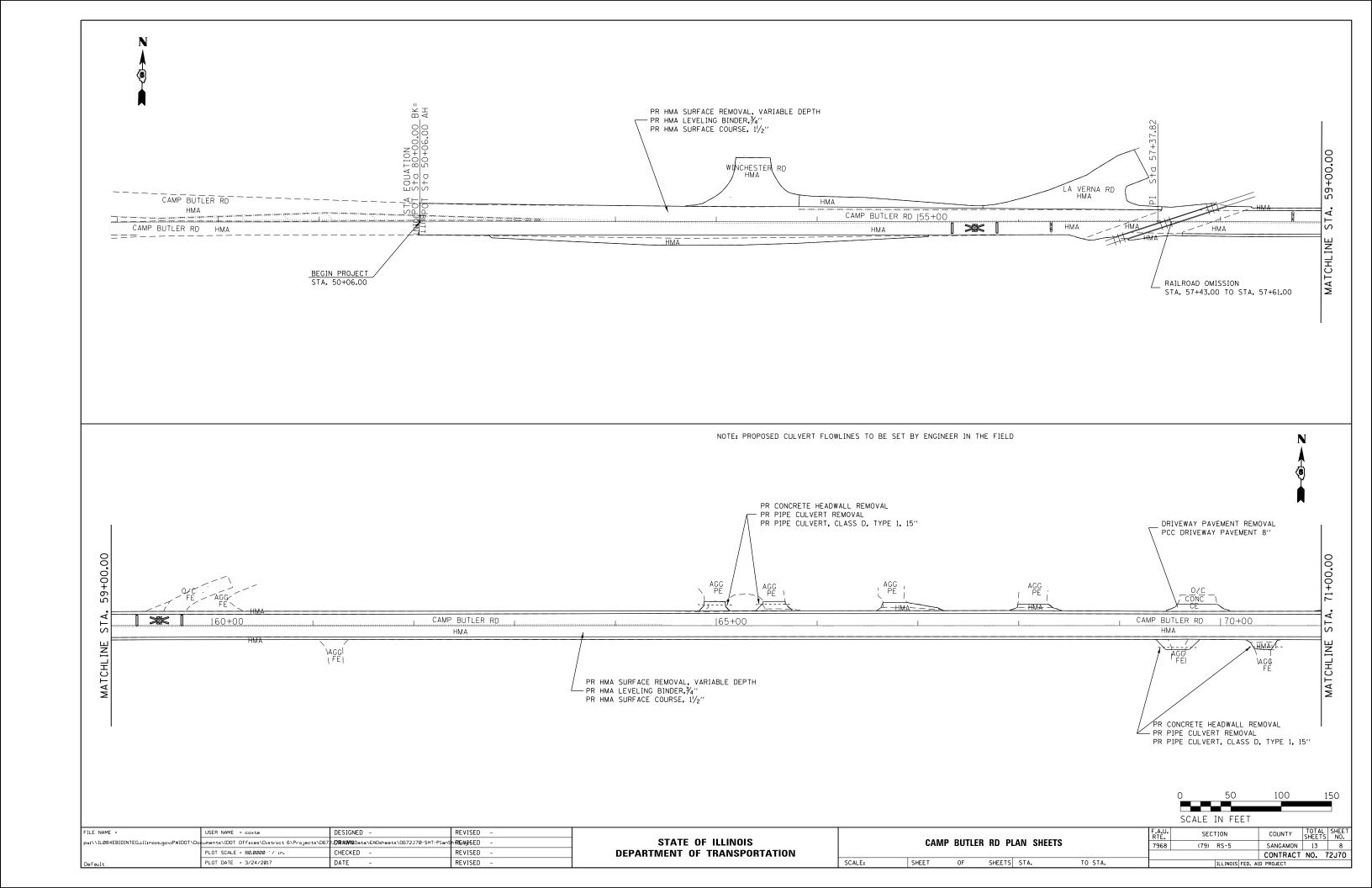
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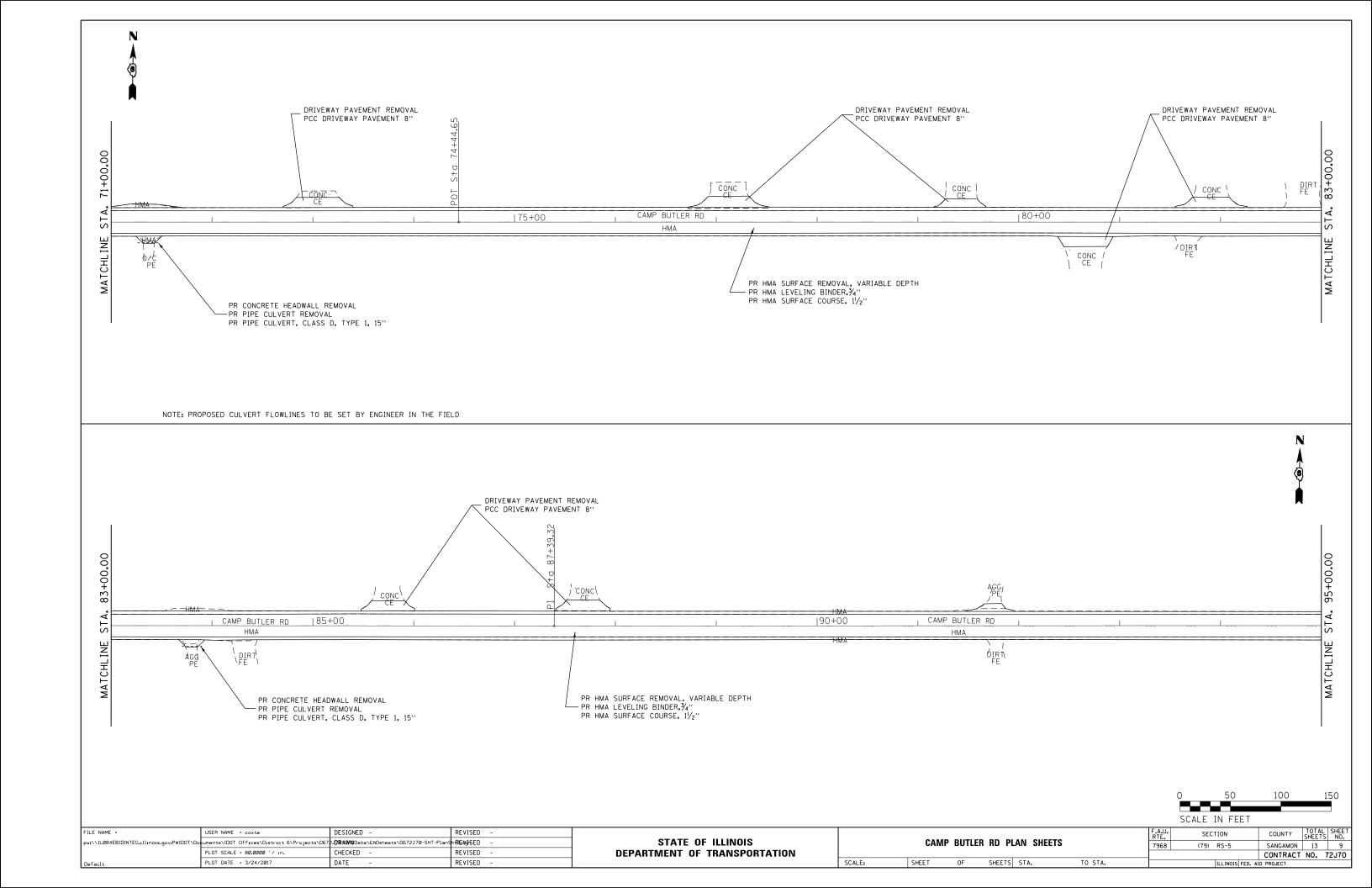


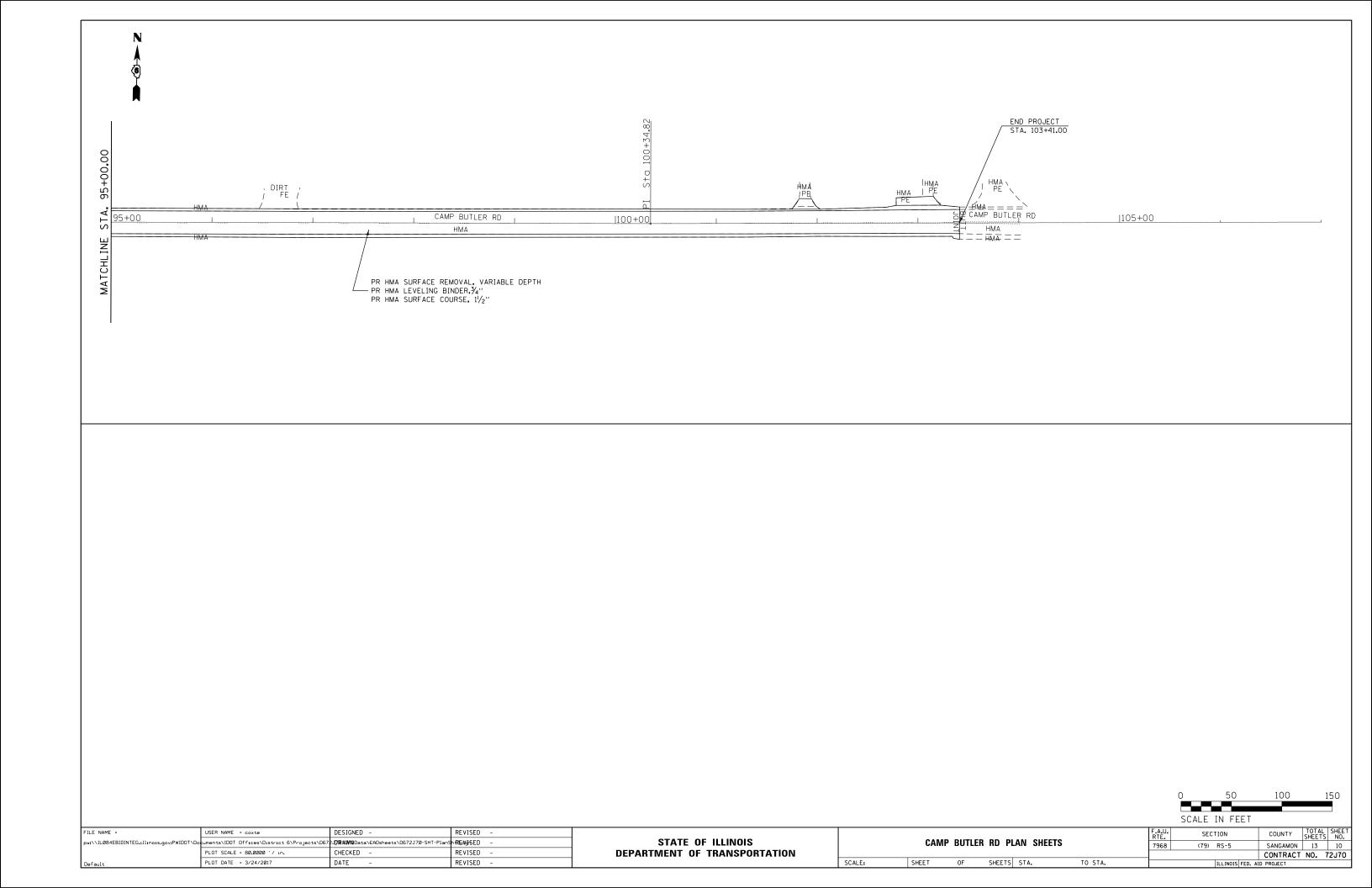
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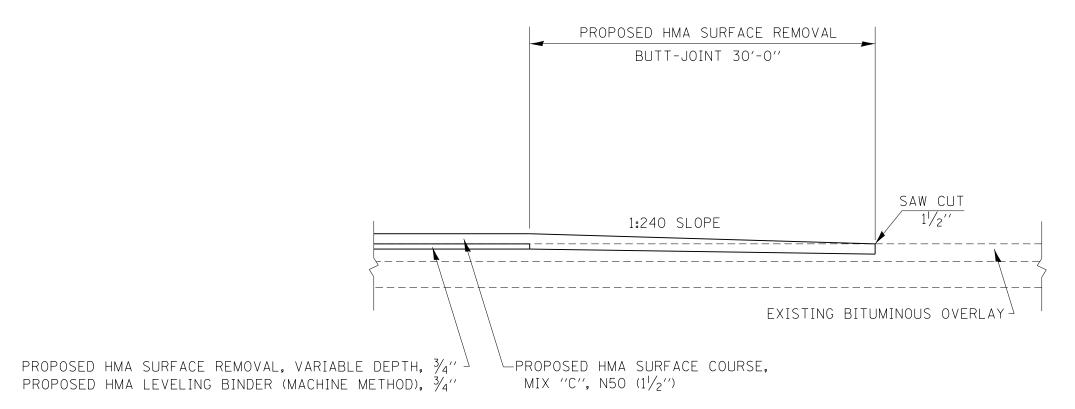
- 1 EXISTING BRICK PAVEMENT W/ 3" BIT. OVERLAY 6"
- 2 EXISTING BIT. SURFACE 23/4"
- EXISTING BIT. SHOULDERS
- 4 PROPOSED HMA SURFACE REMOVAL VARIABLE DEPTH
- 5 PROPOSED HMA LEVELING BINDER -3/4"
- 6 PROPOSED HMA SURFACE COURSE 11/2"
- 7 PROPOSED AGGREGATE WEDGE SHOULDER
- 8 PROPOSED PAINT PAVEMENT MARKING 5"

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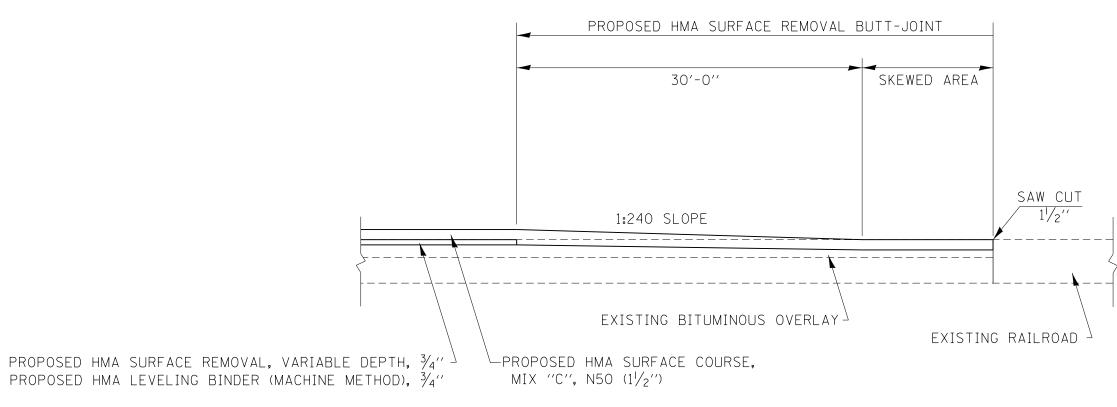






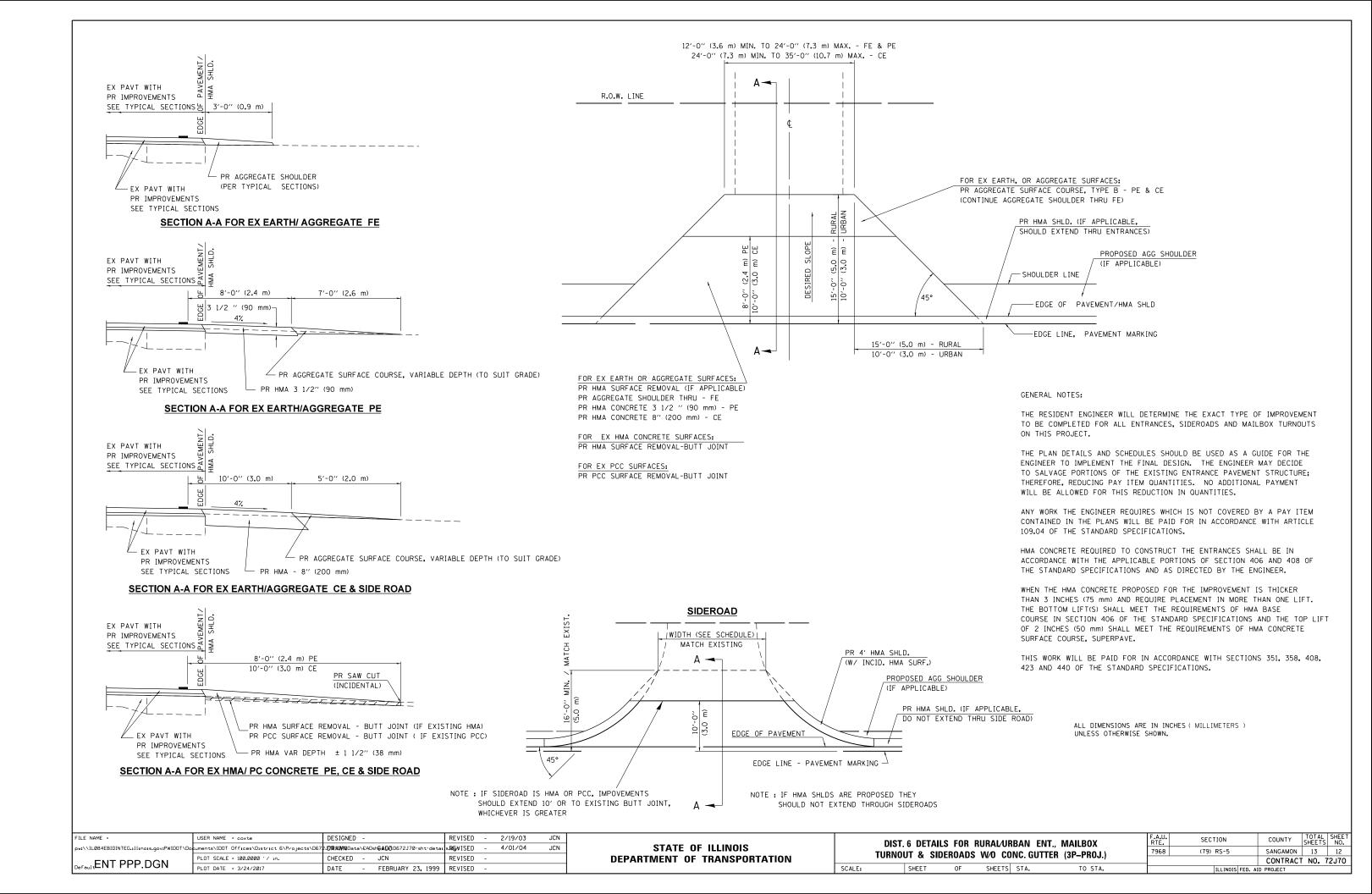


### BUTT-JOINT DETAIL

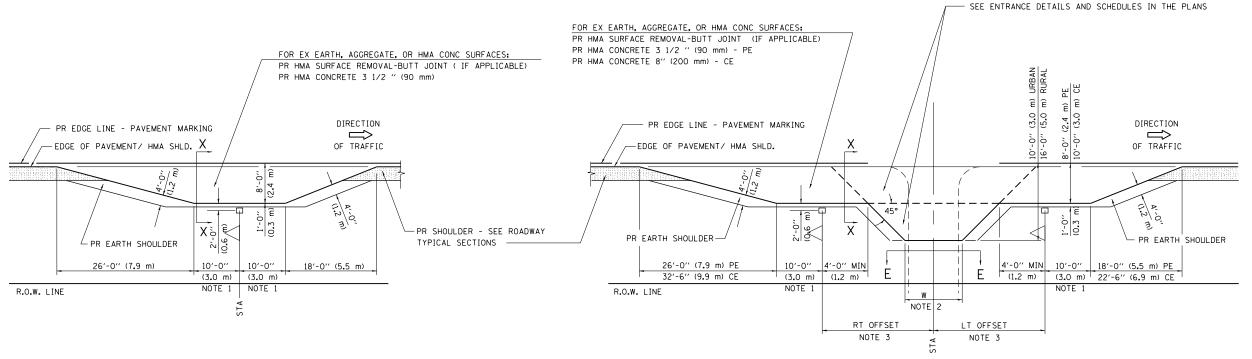


### RAILROAD BUTT-JOINT DETAIL

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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO. 7	2J70
Default	PLOT DATE = 3/24/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED	. AID PROJECT		

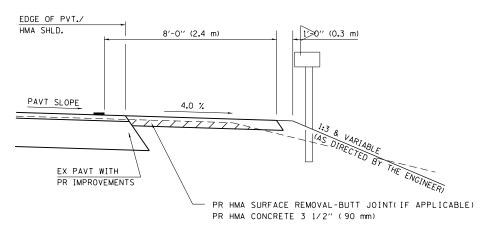


### **DETAILS OF MAILBOX TURNOUTS**



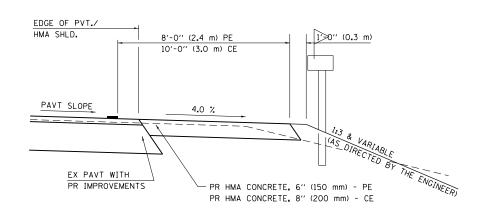
**PLAN - MAILBOX TURNOUTS** 





# SECTION X-X THRU MAILBOX TURNOUT ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH EX EARTH, AGGREGATE, OR HMA PE & FE

( DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST. IF EXISTING, TREAT SAME AS ENTRANCE.)



SCALE:

## SECTION X-X THRU MAILBOX TURNOUT COMBINED WITH EX HMA CONC & PC CONC PE & CE

( DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST. IF EXISTING, TREAT SAME AS ENTRANCE.)

NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.

NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.

NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

ALL DIMENSIONS ARE IN INCHES ( MILLIMETERS ) UNLESS OTHERWISE SHOWN.

COUNTY

SANGAMON 13 13

CONTRACT NO. 72J70

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# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DIST.	6 DET	AILS FOR F	URAL/UF	BAN E	NT., MAILBOX	F.A.U. RTE.	SECTION
TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)						7968	(79) RS-5
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FEE