

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-40,BP (118)RS-4,BP	LOGAN	53*	1
		ILLINOIS	CONTRACT NO. 72K81	

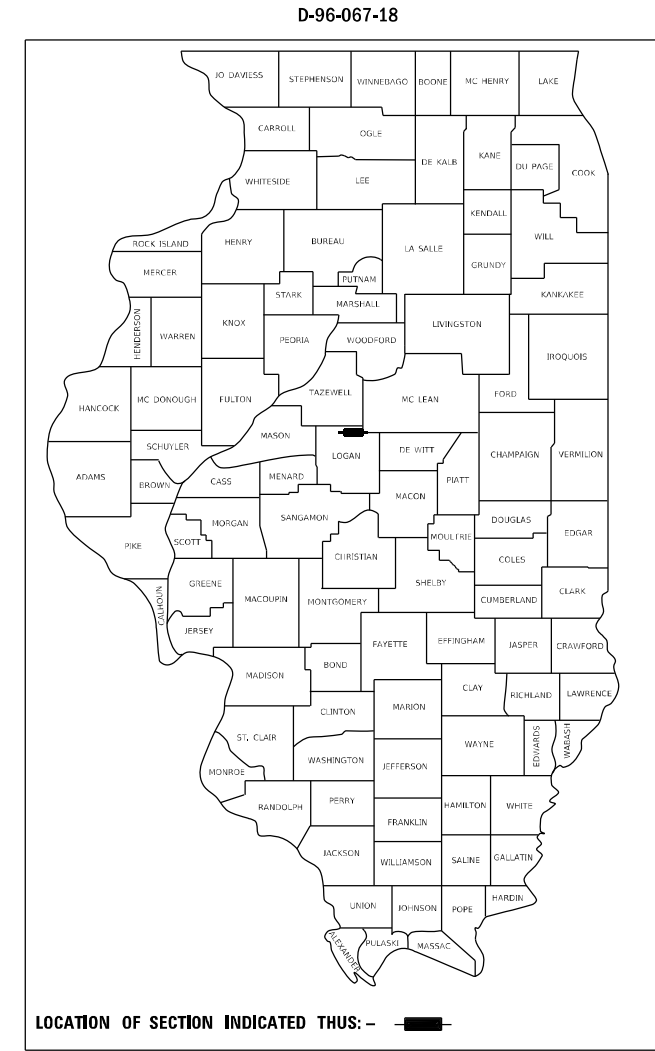
* 53 + 11 = 64 TOTAL SHEETS

INDEX OF SHEETS

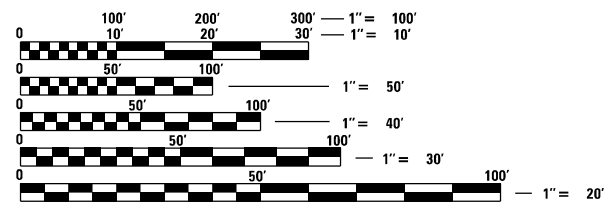
- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-6 SUMMARY OF QUANTITIES
- 7-15 SCHEDULES
- 16-19 TYPICAL SECTIONS
- 20-29 PLAN SHEETS
- 30-39 PAVEMENT MARKING PLAN SHEETS
- 40-45 DETAILS SHEETS
- 46-51A STRUCTURAL REPAIR DETAIL (SN 054-0026)
- 52-52J STRUCTURAL REPAIR DETAIL (SN 054-0027)
- 53 STRUCTURAL REPAIR DETAIL (SN 054-7006)

**PROPOSED
HIGHWAY PLANS**

**FAP ROUTE 315 (US 136)
SECTION (117)RS-10,BP (118)RS-4,BP
PROJECT NHPP-N284(034)
3P RESURFACING
LOGAN COUNTY
C-96-115-18**



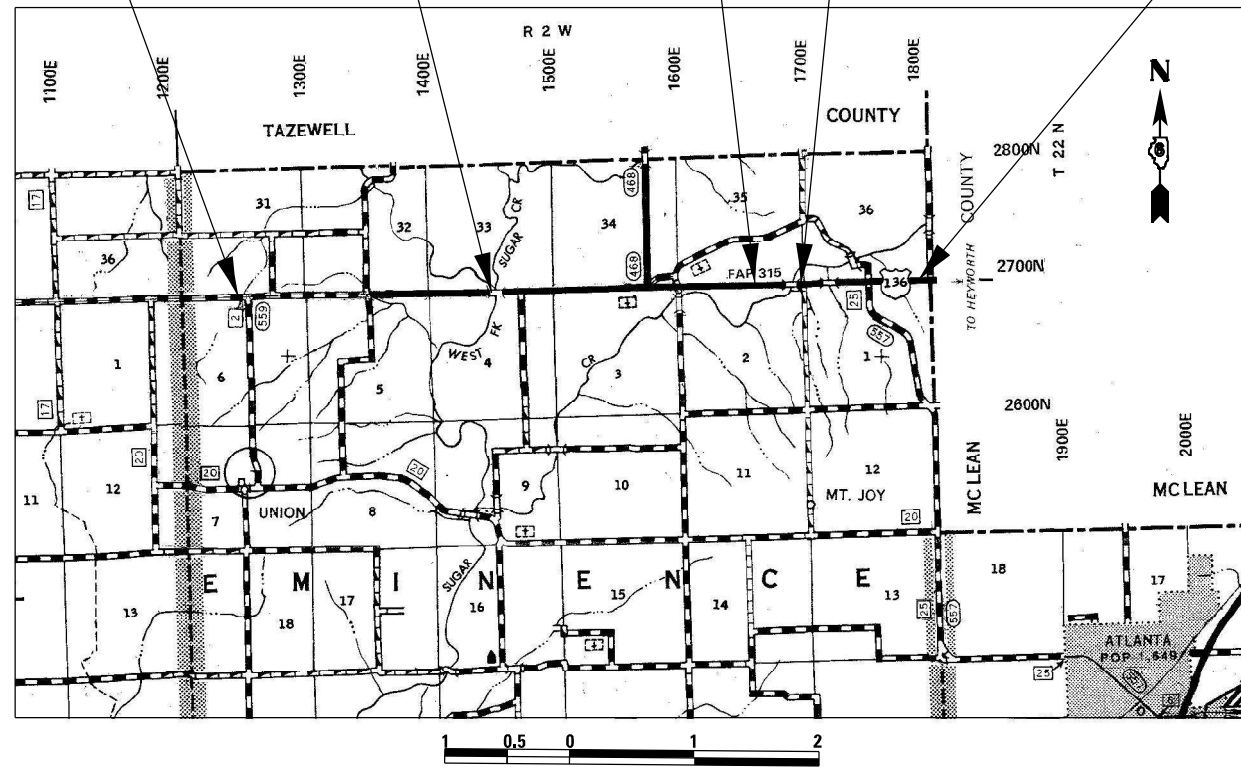
FAP 315 (US 136)
FUNCTIONAL CLASSIFICATION
OTHER ARTERIAL
ADT (2019)=2,100
SU=7.62
MU=21.43
PV=70.95



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

BEGIN PROJECT STA. 657+50.00
PR BRIDGE STRUCTURAL REPAIR S.N. 054-0026 STA. 765+67.68 TO STA. 768+51.98
PR BRIDGE STRUCTURAL REPAIR S.N. 054-0027 STA. 889+53.51 TO STA. 894+74.02
STATION EQUATION STA. 901+94.78 (BK) STA. 174+94.30 (AH)
END PROJECT STA. 223+02.44



GROSS LENGTH = 29252.92 FT. = 5.540 MILE
NET LENGTH = 28448.11 FT. = 5.388 MILE

PROJECT ENGINEER-JAY EDWARDS (217)785-0597
PROJECT MANAGER-SYLVETTE CUEBAS-CANCEL (217)785-5329

CONTRACT NO. 72K81

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 19 20 21

Jay P. Myers REGIONAL ENGINEER

October 1 20 21
Stephen M. Lewis ENGINEER OF DESIGN AND ENVIRONMENT

October 21 20 21
Stephen M. Lewis DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

GENERAL NOTES

- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

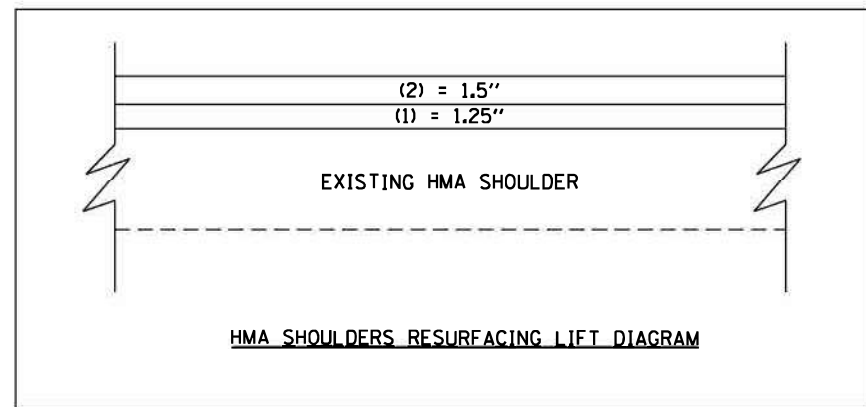
SEEDING FERTILIZER RATIO (NIT:POS:POT)	90:90:90 LBS./AC.
BITUMINOUS MATERIALS (TACK COAT)	0.05 LB/SQ. FT. (ON PAVEMENT: MILLED HMA)
BITUMINOUS MATERIALS (TACK COAT)	0.025 LB/SQ. FT. (ON PAVEMENT: HMA LIFTS)
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LB/SQ. FT. ± 0.01
BITUMINOUS CONCRETE SURFACE / BINDER	0.056 TON/CU. YD. PER 1"
AGGREGATE MATERIAL	1.60 TON/CU. YD.
RIPRAP	1.50 TON/CU. YD.
AGRICULTURAL GROUND LIMESTONE	0.00041 TONS/SQ. YD. (2 TONS/ACRE)
- THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 BUREAU OF OPERATIONS AT (217) 785-5306 THREE WEEKS PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL.
- 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.
- NO PASSING ZONES TO BE FIELD VERIFIED BY THE BUREAU OF OPERATIONS. THE RESIDENT ENGINEER SHALL NOTIFY THE BUREAU OF OPERATIONS AT LEAST 14 DAY PRIOR TO PLACEMENT OF THE FINAL PERMANENT PAVEMENT MARKING. (PH 217-782-7314)
- ALL PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL GUARDRAIL SHALL HAVE A PRELIMINARY LAYOUT. GUARDRAIL POSTS SHALL BE ADJUSTED SO AS TO MISS ANY SHOULDER DRAINS, INLETS, PIPE CULVERTS, STORM SEWER OR ANY OTHER HAZARD THAT MAY INTERFERE WITH GUARDRAIL CONSTRUCTION

COMMITMENT

- NO TREE REMOVAL SHALL OCCUR FROM APRIL 1ST TO SEPTEMBER 30TH OF ANY GIVEN CALENDAR YEAR.

MIXTURE REQUIREMENTS

MIX USE:	HMA SURFACE	HMA BINDER	HMA SHOULDERS (LOWER LIFT (1) = 1.25")	HMA SHOULDERS (TOP LIFT (2) = 1.5")	INCIDENTAL HMA
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIX COMPOSITION:	IL-9.5	IL-9.5FG	IL-9.5	IL-9.5	IL-9.5
FRICTION AGG.:	Mix "C"	N/A	N/A	Mix "C"	Mix "C"
QUALITY MANAGEMENT:	QCP	QCP	QC/OA	QC/OA	QC/OA
SUBLOT SIZE:	1000 TONS	1000 TONS	N/A	N/A	N/A



STANDARDS

- 001001-02 AREA OF REINFORCEMENT BARS
- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 442201-03 CLASS C AND D PATCHES
- 606001-07 CONC. CURB TY. B AND COMBINATION CC&G
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
- 631031-17 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635001-02 DELINEATORS
- 642006-01 SHOULDER RUMBLE STRIPS, 8"
- 667101-02 PERMANENT SURVEY MARKERS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
- 701201-05 LANE CLOSURE, 2L 2W, DAY ONLY, FOR SPEEDS >45 MPH
- 701301-04 LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
- 701306-04 LANE CLOSURE, 2L 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >45 MPH
- 701311-03 LANE CLOSURE, 2L 2W, MOVING OPERATIONS-DAY ONLY
- 701326-04 LANE CLOSURE, 2L 2W, PAVEMENT WIDENING 45 MPH OR MORE
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS >= 45 MPH
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6**

EXAMINED August 5 20 21

[Signature]
ENGINEER OF OPERATIONS

EXAMINED August 12 20 21

[Signature]
ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED August 9 20 21

[Signature]
ENGINEER OF PROGRAM DEVELOPMENT

REV. - MS

FILE NAME =	USER NAME = cncels	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\idot-pw\bentley.com\PROJECTS\DOT\Documents\DOT Offices\District 6\Projects\0672K81\DRAWINGS\0672K81-shr-genote.dgn	PLLOT SCALE = 60000.0000' / in.	CHECKED -	REVISED -			315	(117)RS-10, BP (118)RS-4, BP	LOGAN	53	2	
Default	PLLOT DATE = 9/27/2021	DATE -	REVISED -			CONTRACT NO. 72K81					
						ILLINOIS FED. AID PROJECT					

US 136 (80% FED / 20% STATE)			
CONSTRUCTION CODE			
6-01001-0000	6-01001-0100		6-01001-0200
ROADWAY	BRIDGE	BRIDGE	BOX CULVERT
0005	0047	0047	0004
RURAL	S.N. 054 - 0026	S.N. 054 - 0027	S.N. 054 - 7006

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE	BOX CULVERT
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	36	36			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	217	217			
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	76	76			
20400800	FURNISHED EXCAVATION	CU YD	19	19			
21301072	EXPLORATION TRENCH 72" DEPTH	FOOT	50	50			
28100205	STONE RIPRAP, CLASS A3	TON	66.1	66.1			
35800100	PREPARATION OF BASE	SQ YD	597	597			
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	45	45			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	71893	71893			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	2356	2356			
40600990	TEMPORARY RAMP	SQ YD	340	340			
40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	5319	5319			
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	6383	6383			
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	1100	1100			

FILE NAME =	USER NAME = canods	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idol-pw.bentley.com\PWIDOT\Documents\IDOT Office\District 6\Projects\D672K81\CADData\CADsheets\D672K81- DRAWN	CHECKED -	REVISED -	315						*	LOGAN	53	3	
Default	PLOT SCALE = 100,0000' / in.	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA.	TO STA.	CONTRACT NO. 72K81				
	PLOT DATE = 8/17/2021				ILLINOIS FED. AID PROJECT								

				US 136 (80% FED / 20% STATE)			
				CONSTRUCTION CODE			
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	6-01001-0000	6-01001-0100		6-01001-0200
				ROADWAY	BRIDGE	BRIDGE	BOX CULVERT
				0005	0047	0047	0004
				RURAL	S.N. 054 - 0026	S.N. 054 - 0027	S.N. 054 - 7006
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	444	444			
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	104435	104435			
44000300	CURB REMOVAL	FOOT	207	207			
44200148	PAVEMENT PATCHING, TYPE III, 12 INCH	SQ YD	15	15			
44200150	PAVEMENT PATCHING, TYPE IV, 12 INCH	SQ YD	25	25			
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2684	2684			
48203018	HOT-MIX ASPHALT SHOULDERS, 5 1/4"	SQ YD	3117	3117			
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	6		6		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	4774	4774			
50300225	CONCRETE STRUCTURES	CU FT	12.6		5	7.6	
50800105	REINFORCEMENT BARS	POUND	58	58			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2470		970	1500	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1	1			
50102400	CONCRETE REMOVAL	CU YD	0.2		0.2		
54248510	CONCRETE COLLAR	CU YD	0.69	0.69			
58700300	CONCRETE SEALER	SQ FT	1243		483	760	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	207	207			
50300100	FLOOR DRAINS	EACH	6		1	5	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	4200	4200			
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1246		926	320	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	8			
52100520	ANCHOR BOLTS 1"	EACH	12		12		

* SPECIALTY ITEM

REV. - MS

FILE NAME =	USER NAME = cancels	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idot-pw.bentley.com\PWIDOT\Documents\IDOT Official\District 6\Projects\0672K81\CADData\CADsheets\0672K81-1-1.dwg		CHECKED -	REVISED -						315	*	LOGAN	53	4
Default	PLOT SCALE = 100.0000 / in.	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/17/2021								CONTRACT NO. 72K81				

				US 136 (80% FED / 20% STATE)			
				CONSTRUCTION CODE			
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	6-01001-0000	6-01001-0100		6-01001-0200
				ROADWAY	BRIDGE	BRIDGE	BOX CULVERT
				0005	0047	0047	0004
				RURAL	S.N. 054 - 0026	S.N. 054 - 0027	S.N. 054 - 7006
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	44	44			
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2	2			
63200310	GUARDRAIL REMOVAL	FOOT	6292	6292			
* 63500105	DELINEATORS	EACH	10	10			
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	58079	58079			
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	12	12			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6			
67100100	MOBILIZATION	L SUM	1	1			
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.13	0.37	0.37	0.13
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1			
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	8664	8664			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	981	981			
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	46	46			

* SPECIALTY ITEM

FILE NAME =	USER NAME = canods	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idot-pw\benley.com\PWIDOT\Documents\IDOT Office\District 6\Projects\D672K81\CADData\CADsheets\D672K81- DRAWN -	CHECKED -	REVISED -	315						*	LOGAN	53	5	
Default	PLOT SCALE = 100,0000' / in.	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 72K81		
	PLOT DATE = 8/17/2021				*(117)RS-10,BP (118)RS-4,BP								

US 136 (80% FED / 20% STATE)			
CONSTRUCTION CODE			
6-01001-0000	6-01001-0100		6-01001-0200
ROADWAY	BRIDGE	BRIDGE	BOX CULVERT
0005	0047	0047	0004
RURAL	S.N. 054 - 0026	S.N. 054 - 0027	S.N. 054 - 7006

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE	BOX CULVERT
Z0001899	JACK AND REMOVE EXISTING BEARING	EACH	6		6		
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	84553	84553			
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	214		5	209	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	363	363			
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	0.3			0.3	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	108	108			
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	0.1		0.1		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	363	363			
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	320			320	
X5012650	CONCRETE HEADWALL REMOVAL SPECIAL	EACH	1	1			
Z0021908	SILICONE JOINT SEALER 2"	FOOT	103			103	
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	10				10
∅ Z0076600	TRAINEES	HOUR	1500	1500			
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	28494	28494			
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500	1500			
Z0034105	MATERIAL TRANSFER DEVICE	TON	6383	6383			
Z0041895	POLYMER CONCRETE	CU FT	20			20	

∅ 0042

* SPECIALTY ITEM

REV. - MS

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Default	PLOT SCALE = 100.0000 / in.	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 8/17/2021	DATE -	REVISED -		*(117)RS-10,BP (118)RS-4,BP								

PAVING SCHEDULE

PAY ITEM NUMBER				44000155	40600290	40602965	40604050				
LOCATION STATION TO STATION FAP 315 (US 136)				LENGTH	WIDTH	AREA	HMA SURFACE REMOVAL, 1.5"	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5FG, N50, 1.25"	HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 1.5"	
				FT	FT	SQ YD	SQ YD	POUND	TON	TON	
EASTBOUND											
STA. 657+50.00	TO	STA. 657+65.00		25	12	33.3	25	22.5	2.3	2.8	
STA. 657+65.00	TO	STA. 765+52.68		10787.68	12	14383.6	14383.6	9708.9	1006.9	1208.2	
STA. 765+52.68	TO	STA. 765+67.68		25	12	33.3	25.0	22.5	2.3	2.8	
SN 054-0026											
STA. 768+51.98	TO	STA. 768+66.98		25	12	33.3	25.0	22.5	2.3	2.8	
STA. 768+66.98	TO	STA. 889+31.51		12064.53	12	16086.0	16086.0	10858.1	1126.0	1351.2	
STA. 889+31.51	TO	STA. 889+53.51		25	12	33.3	25.0	22.5	2.3	2.8	
SN 054-0027											
STA. 894+74.02	TO	STA. 849+96.02		25	12	33.3		22.5	2.3	2.8	
STA. 894+96.02	TO	STA. 896+16.45		120.43	12	160.6	160.6	108.4	11.2	13.5	
STA. 896+16.45	TO	STA. 901+94.78		578.33	12	771.1	771.1	520.5	54.0	64.8	
STATION EQUATION 910+94.78 (BK) = 174+94.30 (AH)											
STA. 174+94.30	TO	STA. 222+87.44		4793.14	12	6390.9	6390.9	4313.8	447.4	536.8	
STA. 222+87.44	TO	STA. 223+02.44		25.00	12	33.3		22.5	2.3	2.8	
WESTBOUND											
STA. 657+50.00	TO	STA. 657+65.00		25.00	12	33.3		22.5	2.3	2.8	
STA. 657+65.00	TO	STA. 765+52.68		10787.68	12	14383.6	14383.6	9708.9	1006.9	1208.2	
STA. 765+52.68	TO	STA. 765+67.68		25.00	12	33.3		22.5	2.3	2.8	
SN 054-0026											
STA. 768+51.98	TO	STA. 768+66.98		25.00	12	33.3		22.5	2.3	2.8	
STA. 768+66.98	TO	STA. 889+31.51		12064.53	12	16086.0	16086.0	10858.1	1126.0	1351.2	
STA. 889+31.51	TO	STA. 889+53.51		25.00	12	33.3		22.5	2.3	2.8	
SN 054-0027											
STA. 894+74.02	TO	STA. 849+96.02		25.00	12	33.3		22.5	2.3	2.8	
STA. 894+96.02	TO	STA. 896+16.45		120.43	12	160.6	160.6	108.4	11.2	13.5	
STA. 896+16.45	TO	STA. 901+94.78		578.33	12	771.1	771.1	520.5	54.0	64.8	
STATION EQUATION 910+94.78 (BK) = 174+94.30 (AH)											
STA. 174+94.30	TO	STA. 222+87.44		4793.14	12	6390.9	6390.9	4313.8	447.4	536.8	
STA. 222+87.44	TO	STA. 223+02.44		25.00	12	33.3		22.5	2.3	2.8	
TOTAL =							75684	51289	5319	6383	

PATCHING SCHEDULE

PAY ITEM NUMBER		44200148	44200150
LOCATION US 136		PAVEMENT PATCHING, TYPE III, 12 INCH	PAVEMENT PATCHING, TYPE IV, 12 INCH
STATION	TO STATION	SQ YD	SQ YD
657+50.00	TO 223+02.44	15	25
TOTAL =		15	25

MODEL: Default
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USER NAME = cancel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	7
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

SIDEROAD PAVING SCHEDULE

PAY ITEM NUMBER				40600982	40800029	40800050				
LOCATION STATION TO STATION FAP 315 (US 136)	LENGTH	WIDTH	AREA	HMA SURFACE REMOVAL - BUTT JOINT	BITUMINOUS MATERIALS (TACK COAT)	INCIDENTAL HMA SURFACING				
SIDEROAD	FT	FT	SQ YD	SQ YD	POUND	TON				
1250TH AVE										
STA. 09+39.33 TO STA. 09+88.12	49.00	21.0 TO 80.0	274.9	274.9	123.7	42.3				
1275TH AVE										
STA. 10+11.59 TO STA. 10+24.58	13.00	36.0 TO 52.0	63.6	63.6	28.6	9.8				
1350TH AVE										
STA. 10+20.12 TO STA. 10+31.57	12.00	23.0 TO 38.0	40.7	40.7	18.3	6.3				
STA. 10+21.02 TO STA. 10+36.17	15.00	21.0 TO 50.0	59.2	59.2	26.6	9.1				
1475TH AVE										
STA. 10+12.31 TO STA. 10+33.37	21.00	19.0 TO 45.0	74.7	74.7	33.6	11.5				
ARMINGTON RD										
STA. 10+12.07 TO STA. 10+71.57	34.00	36.0 TO 106.0	268.2	268.2	120.7	41.3				
1600TH AVE										
STA. 10+12.08 TO STA. 10+48.21	34.00	20.0 TO 68.0	166.2	166.2	74.8	25.6				
STA. 10+11.71 TO STA. 10+43.95	32.00	22.0 TO 82.0	184.9	184.9	83.2	28.5				
1700TH AVE										
STA. 10+12.14 TO STA. 10+42.79	30.00	20.0 TO 64.0	140.0	140.0	63.0	21.6				
1750TH AVE										
STA. 10+11.81 TO STA. 10+47.23	35.00	21.0 TO 51.0	140.0	140.0	63.0	21.6				
STA. 10+12.39 TO STA. 10+34.08	22.00	17.0 TO 44.0	74.6	74.6	33.6	11.5				
TOTAL =				1487	669	229				

TREE REMOVAL SCHEDULE

PAY ITEM NUMBER		20100110	20100210		
LOCATION	LOCATION	TREE REMOVAL (6 TO 15 UNITS DIA.)	TREE REMOVAL (OVER 15 UNITS DIA.)		
STATION TO STATION	(RT / LT)	(UNIT)	(UNIT)		
US-136 (SN 054-7004)					
STA. 814+00.00 TO STA. 816+00.00	RT	28.3	101.0		
US-136 (SN 054-2502)					
STA. 882+00.00 TO STA. 884+00.00	LT	7.6	115.5		
TOTAL =		35.9	216.5		

RIPRAP SCHEDULE

PAY ITEM NUMBER			28100205
LOCATION	LENGTH	WIDTH	STONE RIPRAP, CLASS A3
STATION TO STATION	(FT)	(FT)	(TONS)
FAP 315 (US-136)			
RIGHT			
STA. 687+76.12 TO STA. 688+04.45	28.3	14.8	15.5
STA. 814+89.02 TO STA. 815+22.86	33.8	21.7	27.2
LEFT			
STA. 816+03.28 TO STA. 816+32.37	29.1	21.7	23.4
Total =			66.1

PERMANENT SURVEY MARKERS, TYPE 1 SCHEDULE

PAY ITEM NUMBER				66700205
SECTION CORNER DESCRIPTION	STA	OFFSET	EACH	
N 1/4 CORNER SEC 6-T21N-R2W-3PM	660+74.72	11.06 RT	1	
SW CORNER SEC 32-T22N-R2W-3PM	685+96.88	10.63 RT	1	
NW CORNER SEC 5-T21N-R2W-3PM	687+24.89	10.61 RT	1	
SE CORNER SEC 32-T22N-R2W-3PM	739+15.51	4.28 RT	1	
NE CORNER SEC 5-T21N-R2W-3PM	739+84.09	4.36 RT	1	
SE CORNER SEC 33-T22N-R2W-3PM	792+16.49	12.60 LT	1	
NE CORNER SEC 4-T21N-R2W-3PM	792+54.80	12.88 LT	1	
SW COR SE 1/4 SE 1/4 SEC 34-T22N-R2W-3PM	831+78.91	11.15 RT	1	
SE CORNER SEC 34-T22N-R2W-3RD	844+99.79	8.60 RT	1	
NE CORNER SEC 3-T21N-R2W-3PM	845+65.04	8.58 RT	1	
S 1/4 CORNER SEC 35-T22N-R2W-3RD	871+37.54	1.56 RT	1	
SE CORNER SEC 35-T22N-R2W-3RD	897+78.64	2.66 LT	1	
TOTAL =			12	

SHORT-TERM PAVEMENT MARKING SCHEDULE

PAY ITEM NUMBER					70300100	70300150		
LOCATION US 136	LENGTH	SPACING	NUMBER OF APPLICATIONS	SHORT-TERM PAVE MARK (FT)	SHORT-TERM PAVE MARK REM (SQ FT)			
STATION TO STATION	(FT)			(FT)	(SQ FT)			
CENTERLINE								
657+50.00 TO 765+67.00	10817.0	4' / 40'	3	3252.00	361			
SN 054-0026								
768+52.00 TO 889+54.00	12102.0	4' / 40'	3	3648.00	405			
SN 054-0027								
894+74.00 TO 901+94.00	720.0	4' / 40'	3	228.00	25			
STATION EQUATION 901+94.78 (BK) = 174+94.30 (AH)								
174+94.00 TO 223+02.44	4808.4	4' / 40'	3	1452.00	161			
SHOULDERS (CENTERS INSTALLED AT APPROXIMATELY A 45 DEGREE DIAGONAL POINTING IN THE DIRECTION OF TRAFFIC.)								
711+42.00 TO 715+91.50	449.5	4' / 100'	1	20.00	7			
764+41.26 TO 765+67.68	126.4	4' / 100'	1	8.00	3			
768+51.98 TO 769+79.85	127.9	4' / 100'	1	8.00	3			
888+11.26 TO 889+53.51	142.3	4' / 100'	1	8.00	3			
894+74.00 TO 896+16.45	142.4	4' / 100'	1	8.00	3			
STATION EQUATION 901+94.78 (BK) = 174+94.30 (AH)								
177+96.05 TO 185+01.43	705.4	4' / 100'	1	32.00	11			
TOTAL =				8664.0	981.0			

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USER NAME = cancel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	8
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

PAY ITEM NUMBER				78001120	
LOCATION US 136 EDGE OF PAVEMENT LINE		LENGTH	PAINT PAVEMENT MARKING - LINE 5"		
			WHITE		
STATION	TO STATION	FT	FT		
EASTBOUND					
657+50.00	TO 660+37.33	287.33	287.33		
1250th AVE					
661+19.79	TO 712+34.31	5114.52	5114.52		
1350th AVE					
712+92.00	TO 765+67.68	5275.68	5275.68		
768+51.98	TO 778+64.00	1012.02	1012.02		
1475th AVE					
779+22.13	TO 845+00.68	6578.55	6578.55		
1600th AVE					
845+95.41	TO 889+53.51	4358.10	4358.10		
894+74.00	TO 897+77.00	303.00	303.00		
898+41.64	TO 901+94.00	352.36	352		
STATION EQUATION					
174+94.00	TO 197+07.06	2213.06	2213		
1750th AVE					
197+63.74	TO 223+02.44	2538.70	2539		
WESTBOUND					
657+50.00	TO 672+31.03	1481.03	1481.03		
1275th AVE					
672+93.58	TO 712+25.20	3931.62	3931.62		
1350th AVE					
712+75.65	TO 765+67.68	5292.03	5292.03		
768+51.98	TO 831+09.65	6257.67	6257.67		
831+09.65	TO 831+47.31	83.70	83.70		
ARMINGTON RD					
831+73.90	TO 832+15.41	83.00	83.00		
832+15.41	TO 844+90.16	1274.75	1274.75		
1600th AVE					
845+67.00	TO 889+53.51	4386.51	4387		
894+74.00	TO 901+94.00	720.00	720		
STATION EQUATION					
174+94.00	TO 197+78.49	2284.49	2284		
1750th AVE					
197+58.49	TO 223+02.44	2543.95	2544		
SUB-TOTAL =			56372		

PAVEMENT MARKING SCHEDULE

PAY ITEM NUMBER				78001120		
LOCATION US 136 CENTERLINE		LENGTH	NO PASSING ZONES	PAINT PAVEMENT MARKING - LINE 5"		
				SKIP DASH	SOLID	
				YELLOW	YELLOW	
STATION	TO STATION	FT	LT/RT/DUAL	FT	FT	
657+50.00	TO 659+65.00	215.00		60		
659+65.00	TO 671+30.00	1165.00	LT SOLID	300	1165	
671+30.00	TO 699+70.00	2840.00	DUAL SOLID		5680	
699+70.00	TO 716+20.00	1650.00	LT SOLID	420	1650	
716+20.00	TO 730+65.00	1445.00		370		
730+65.00	TO 739+00.00	835.00	RT SOLID	210	835	
739+00.00	TO 751+25.00	1225.00	DUAL SOLID		2450	
751+25.00	TO 761+70.00	1045.00	LT SOLID	270	1045	
761+70.00	TO 765+67.68	397.68		100		
768+51.98	TO 771+90.00	338.02		90		
771+90.00	TO 784+50.00	1260.00	RT SOLID	320	1260	
784+50.00	TO 795+20.00	1070.00	LT SOLID	270	1070	
795+20.00	TO 804+00.00	880.00	DUAL SOLID		1760	
804+00.00	TO 812+40.00	840.00	LT SOLID	210	840	
812+40.00	TO 818+00.00	560.00		140		
818+00.00	TO 828+50.00	1050.00	RT SOLID	270	1050	
828+50.00	TO 836+46.00	796.00	DUAL SOLID		1592	
836+46.00	TO 846+20.00	974.00	LT SOLID	250	974	
846+20.00	TO 889+53.51	4333.51		1090		
894+74.00	TO 901+94.78	720.78		190		
STATION EQUATION						
174+94.30	TO 213+30.00	3835.70		960		
213+30.00	TO 222+05.00	875.00	RT SOLID	220	875	
222+05.00	TO 223+02.44	97.44	DUAL SOLID		194.88	
SUB-TOTAL =				5740	22441	
TOTAL =				28181		

REFLECTOR SCHEDULE

PAY ITEM NUMBER				78300200	78100100
LOCATION US 136		LENGTH		RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER
STATION	TO STATION	FT		EACH	EACH
657+50.00	TO 765+67.68	10817.7		137	137
768+51.98	TO 889+53.51	12101.5		153	153
894+74.00	TO 901+94.78	720.8		11	11
STATION EQUATION 910+94.78 (BK) = 174+94.30 (AH)					
174+94.30	TO 223+02.44	4808.1		62	62
TOTAL =				363	363

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10, BP (118)RS-4, BP	LOGAN	53	9
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

ENTRANCE SCHEDULE

PAY ITEM NUMBER									40600982	35800100	40800029	40800050	40200800
LOCATION		TYPE	EX MATERIAL TYPE	LENGTH FROM EDGE OF HMA SHLD	WIDTH FRONT	WIDTH BACK	DEPTH	AREA	HMA SURFACE REMOVAL - BUTT JOINT	PREPERATION OF BASE	BITUMINOUS MATERIALS (TACK COAT)	INCIDENTAL HMA SURFACING	AGGREGATE SURFACE COURSE, TYPE B
				FT	FT	FT	IN	SQ YD	SQ YD	SQ YD	POUND	TON	TON
STATION	LT / RT												
677+50.00	RT	PE	HMA/OC	10	29	12	1.5	38.89	38.9		17.5	3.3	0.5
679+15.00	RT	MBT	EARTH	4	43	20	3.5	23.56		23.6		4.6	
695+48.01	LT	PE	AGG	6	24.5	17	3.5	22.00		22.0		4.3	1.4
695+50.00	RT	MBT	EARTH	4	42.5	20	3.5	23.33		23.3		4.6	
697+34.87	LT	PE	HMA	13	26	13	1.5	46.94	46.9		21.1	3.9	0.5
707+70.00	RT	PE/MBT	HMA	12	82	16	1.5	54.96	55.0		24.7	4.6	0.7
725+40.00	RT	PC	AGG	4	50	34	3.5	29.78		29.8		5.8	2.8
738+60.00	LT	PE/MBT	HMA	12	66	13.5	1.5	35.08	35.1	9.8	15.8	4.9	
739+81.00	LT	MBT	EARTH	4	43	20	3.5	23.56		23.6		4.6	
739+90.00	RT	PE	AGG	4	46.5	26	3.5	26.44		26.4		5.2	2.2
752+60.00	RT	CE	HMA	29	59.5	24.7	1.5	231.52	231.5		104.2	19.4	
752+95.55	RT	CE	HMA	29	68	24	1.5	257.78	257.8		116.0	21.7	
759+85.00	RT	PE	HMA	13.5	27	18	1.5	54.00	54.0		24.3	4.5	2.0
761+05.00	LT	MBT	EARTH	4	41.5	20	3.5	22.89		22.9		4.5	
761+20.00	RT	PE	HMA	13	29	16	1.5	53.44	1.5		24.1	4.5	1.7
773+50.00	LT	PE/MBT	HMA	13	70	16	1.5	34.91	34.9	10.9	15.7	5.1	0.7
784+64.00	RT	PE	HMA	10	27	16	1.5	38.89	38.9		17.5	3.3	1.2
784+80.00	LT	MBT	EARTH	4	43	20	3.5	23.56		23.6		4.6	
792+35.50	RT	PE	AGG	4	36	28	3.5	22.22		22.2		4.4	2.3
801+95.00	LT	PE	HMA	4	28	14	1.5	15.56	15.6		7.0	1.3	0.6
805+90.00	RT	CE	AGG	6	75	62	8	70.67		70.7	15.9	31.7	3.7
808+36.16	RT	PE	AGG	4	48	39.7	3.5	30.16		30.2		5.9	3.3
820+20.00	LT	PE	AGG	4	39	30	3.5	24.00		24.0		4.7	2.5
822+20.00	RT	PE	AGG	4	30	28	3.5	19.56		19.6		3.8	2.3
822+40.00	LT	PE/MBT	OC	15	63	14	1.5	35.17	35.2	13.5	15.8	5.6	
823+75.00	RT	PE	AGG	4	29	30	3.5	19.56		19.6		3.8	2.5
829+90.00	RT	PE/MBT	AGG	12	71.5	18	3.5	50.56		50.6		9.9	1.5
830+10.28	LT	MBT	EARTH	4	42.5	20	3.5	23.33		23.3		4.6	
832+75.00	RT	PE	AGG	4	39.5	33	3.5	24.89		24.9		4.9	2.7
832+80.85	LT	MBT	HMA	4	44.5	20	3.5	24.22	24.2		10.9	4.7	
836+50.00	RT	PE	AGG	4	44	38	3.5	28.00		28.0		5.5	3.2
841+60.00	LT	PE	AGG	4	39	42	3.5	26.67		26.7		5.2	3.5
881+00.00	RT	PE	AGG	4	44.5	37	3.5	28.00		28.0		5.5	3.1
PE	PRIVATE	ENTRANCE											
MBT	MAILBOX	TURNOUT											
TOTAL =									859	597	431	215	45

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USER NAME = cancel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -						315	(117)RS-10, BP (118)RS-4, BP	LOGAN	53	10
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 72K81				
PLOT DATE = 8/17/2021	DATE -	REVISED -						SCALE:	SHEET	OF	SHEETS	STA.
ILLINOIS FED. AID PROJECT												

HMA SHOULDERS SCHEDULE

PAY ITEM NUMBER			44000155	40600290	48203100	48203018	20200600	64200108		
LOCATION US 136		LENGTH	WIDTH	HMA SURFACE REMOVAL, 1.5"	BITUMINOUS MATERIALS (TACK COAT)	HMA SHOULDERS, 2.75"	HMA SHOULDERS, 5.25"	EXCAVATING AND GRADING EXISTING SHOULDER	SHOULDER RUMBLE STRIPS, 8"	
STATION TO	STATION	FT	FT	SQ YD	POUND	TONS	SQYD	UNIT	FT	
EASTBOUND										
657+20.06	TO	660+42.48	322.4	8	143	193	44	143	3	322.4
661+15.54	TO	673+09.29	1193.8	4	531	358	82			1193.8
673+09.29	TO	675+66.84	257.6	8	114	155	35	114	3	257.6
675+66.84	TO	686+99.96	1133.1	4	504	340	78			1133.1
686+99.96	TO	688+44.99	145.0	8	64	87	20	64	1	145.0
688+44.99	TO	711+41.88	2296.9	4	1021	689	157			2296.9
711+41.88	TO	715+92.71	450.8	8	401	270	62		0	450.8
715+92.71	TO	725+57.85	965.1	4	429	290	66			965.1
725+57.85	TO	728+82.11	324.3	8	144	195	44	144	3	324.3
728+82.11	TO	743+14.36	1432.3	4	637	430	98			1432.3
743+14.36	TO	746+34.43	320.1	8	142	192	44	142	3	320.1
746+34.43	TO	763+97.35	1762.9	4	784	529	121			1762.9
763+97.35	TO	764+40.63	43.3	9	19	29	7	19	0.4	43.3
764+40.63	TO	765+67.68	127.0	9	141	86	20			127.0
SN 054-0026										
768+51.98	TO	769+79.74	284.5	9	316	192	44			284.5
769+79.74	TO	771+72.78	284.5	9	126	192	44	126	3	284.5
771+72.78	TO	778+66.44	693.7	4	308	208	47			693.7
779+09.00	TO	845+06.75	6597.8	4	2932	1979	452			6597.8
845+89.00	TO	846+56.77	67.8	4	30	20	5			67.8
846+56.77	TO	854+01.92	745.1	8	331	447	102	331	7	745.1
854+01.92	TO	887+81.32	3379.4	4	1502	1014	231			3379.4
887+81.32	TO	888+11.04	29.7	10	13	22	5	13	0.3	29.7
888+11.04	TO	889+46.51	135.5	10	151	102	23			135.5
SN 054-0027										
894+61.67	TO	896+17.74	520.6	10	578	390	89			520.6
896+17.74	TO	897+76.72	159.0	4	71	48	11			159.0
898+41.73	TO	901+94.78	353.1	4	157	106	24			353.1
STATION EQUATION 901+94.78 (BK) = 174+94.30 (AH)										
174+94.30	TO	177+96.00	301.7	4	134	91	21			301.7
177+96.00	TO	185+01.70	705.7	8	627	423	97		0	705.7
185+01.70	TO	197+09.74	1208.0	4	537	362	83			1208.0
197+60.82	TO	205+57.89	797.1	4	354	239	55			797.1
205+57.89	TO	217+24.02	1166.1	8	518	700	160	518	12	1166.1
217+24.02	TO	223+02.44	578.4	4	257	174			6	578.4
SUB-TOTAL =					14018	10552	2368	1617	42	28782

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USER NAME = cancel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	11
CONTRACT NO. 72K81				
		ILLINOIS	FED. AID PROJECT	

HMA SHOULDERS SCHEDULE

PAY ITEM NUMBER				44000155	40600290	48203100	48203018	20200600	64200108
LOCATION US 136		LENGTH	WIDTH	HMA SURFACE REMOVAL, 1.5"	BITUMINOUS MATERIALS (TACK COAT)	HMA SHOULDERS, 2.75"	HMA SHOULDERS, 5.25"	EXCAVATING AND GRADING EXISTING SHOULDER	SHOULDER RUMBLE STRIPS, 8"
STATION TO	STATION	FT	FT	SQ YD	POUND	TONS	SQYD	UNIT	FT
WESTBOUND									
657+50.00	TO 657+64.44	14.4	4	6	3	1			14.4
657+64.44	TO 662+59.53	495.1	8	220	198	68	220	5	495.1
662+59.53	TO 672+38.45	978.9	4	435	196	67			978.9
672+90.79	TO 674+08.09	117.3	4	52	23	8			117.3
674+08.09	TO 676+15.72	207.6	8	92	83	28	92	2	207.6
676+15.72	TO 708+64.22	3248.5	4	1444	650	222			3248.5
708+64.22	TO 711+41.81	277.6	8	123	167	38	123	3	277.6
711+41.81	TO 715+91.11	449.3	8	399	270	62		0	449.3
715+91.11	TO 725+90.65	999.5	4	444	300	68			999.5
725+90.65	TO 729+10.42	319.8	8	142	192	44	142	3	319.8
729+10.42	TO 743+49.20	1438.8	4	639	432	98			1438.8
743+49.20	TO 746+69.28	320.1	8	142	192	44	142	3	320.1
746+69.28	TO 764+40.65	1771.4	4	787	531	121			1771.4
764+40.65	TO 765+67.68	127.0	9	141	86	20			127.0
SN 054-0026									
768+51.98	TO 769+79.86	127.9	9	142	86	20			127.9
769+79.86	TO 770+22.67	42.8	9	19	29	6	19	0.4	42.8
769+79.86	TO 831+09.46	6129.6	4	2724	1839	420			6129.6
831+09.46	TO 831+47.31	75.5	4	34	23	5			75.5
831+73.90	TO 832+15.34	74.0	4	33	22	5			74.0
832+15.34	TO 844+93.92	1278.6	4	568	384	88			1278.6
845+62.04	TO 888+11.50	4249.5	4	1889	1275	291			4249.5
888+11.50	TO 889+66.76	155.3	10	173	116	27			155.3
SN 054-0027									
894+86.13	TO 896+16.45	520.6	10	578	390	89			520.6
896+16.45	TO 896+46.16	520.6	10	810	390	71	231	5.2	520.6
896+46.16	TO 901+94.78	548.6	4	244	165	38			548.6
STATION EQUATION 901+94.78 (BK) = 174+94.30 (AH)									
174+94.30	TO 177+96.00	301.7	4	134	91	21			301.7
177+96.00	TO 185+01.55	705.5	8	627	423	97		0	705.5
185+01.55	TO 205+98.84	2097.3	4	932	629	144			2097.3
205+98.84	TO 217+89.98	1191.1	8	529	715	163	529	12	1191.1
217+89.98	TO 223+02.44	512.5	4	228	154	35			512.5
SUB-TOTAL =				14733	10052	2406	1500	34	29296
TOTAL =				28751	20604	4774	3117	76	58079

REV. - MS

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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	315	(117)RS-10, BP (118)RS-4, BP	LOGAN	53	12
PLOT DATE = 8/17/2021	CHECKED -	REVISED -		CONTRACT NO. 72K81										
	DATE -	REVISED -		ILLINOIS FED. AID PROJECT										

GUARDRAIL SCHEDULE

PAY ITEM NUMBER		63200310	63000001	63100167	63100169	63100085	78200005	72501000
LOCATION	LENGTH	GUARDRAIL REMOVAL	SPBG TY. A 6' POSTS	TR. BAR.TERM., TY 1(SPL) TANGENT (50')	TR. BAR.TERM., TY 1(SPL) FLARED (50')	TR. BAR.TERM., TY 6	GUARDRAIL REFLECTORS TY. A	TERMINAL MARKER DIRECT APPLIED
STATION TO STATION								
FAP 315 (US 136)		(FT)	(FT)	(FT)	(EACH)	(EACH)	(EACH)	(EACH)
STA. 657+58.05 RT TO STA. 660+24.44 RT	266.39	266.39						
STA. 657+29.88 RT TO STA. 660+29.88 RT	300.00		200.0	1	1		4	2
STA. 658+69.66 LT TO STA. 661+68.14 LT	298.48	298.48						
STA. 657+74.58 LT TO STA. 662+49.58 LT	475.00		375.0	2			4	2
STA. 673+73.28 RT TO STA. 675+02.46 RT	129.18	129.18						
STA. 673+19.29 RT TO STA. 675+56.79 RT	237.50		137.5	2			4	2
STA. 674+47.03 LT TO STA. 675+75.90 LT	128.87	128.87						
STA. 674+18.15 LT TO STA. 676+05.65 LT	187.50		87.5	2			4	2
STA. 686+18.92 RT TO STA. 688+23.42 RT	204.50	204.50						
STA. 687+09.96 RT TO STA. 688+34.96 RT	125.00		25.0	2			4	2
STA. 709+80.58 LT TO STA. 711+09.62 LT	129.04	129.04						
STA. 708+74.23 LT TO STA. 711+74.23 LT	300.00		200.0	1	1		4	2
STA. 726+06.46 RT TO STA. 729+10.49 RT	304.03	304.03						
STA. 725+72.00 RT TO STA. 728+72.00 RT	300.00		225.0	2			4	2
STA. 726+06.23 LT TO STA. 729+10.03 LT	303.80	303.80						
STA. 726+00.00 LT TO STA. 729+00.00 LT	300.00		200.0	2			4	2
STA. 743+02.74 RT TO STA. 747+06.30 RT	403.56	403.56						
STA. 743+24.36 RT TO STA. 746+24.36 RT	300.00		200.0	2			4	2
STA. 743+02.40 LT TO STA. 747+06.04 LT	403.64	403.64						
STA. 743+59.21 LT TO STA. 746+59.21 LT	300.00		200.0	2			4	2
STA. 846+71.46 RT TO STA. 854+24.68 RT	753.22	753.22						
STA. 846+66.77 RT TO STA. 853+91.77 RT	725.00		625.0	2			4	2
STA. 179+24.39 LT TO STA. 184+65.89 LT	541.50	541.50						
STA. 180+01.26 LT TO STA. 183+38.76 LT	337.50		237.5	2			4	2
STA. 178+30.45 RT TO STA. 183+59.57 RT	529.12	529.12						
STA. 179+47.69 RT TO STA. 182+85.19 RT	337.50		237.5	2			4	2
STA. 207+33.68 LT TO STA. 208+62.85 LT	129.17	129.17						
STA. 206+33.80 LT TO STA. 209+46.30 LT	312.50		212.5	2			4	2
STA. 206+76.85 RT TO STA. 208+56.00 RT	179.15	179.15						
STA. 205+93.94 RT TO STA. 209+06.44 RT	312.50		212.5	2			4	2
STA. 212+35.33 LT TO STA. 213+89.68 LT	154.35	154.35						
STA. 211+75.50 LT TO STA. 214+25.50 LT	250.00		150.0	2			4	2
STA. 212+30.01 RT TO STA. 213+84.15 RT	154.14	154.14						
STA. 212+29.93 RT TO STA. 214+04.93 RT	175.00		75.0	2			4	2
STA. 215+94.66 LT TO STA. 217+23.82 LT	129.16	129.16						
STA. 215+67.42 LT TO STA. 217+17.42 LT	150.00		50.0	2			4	2
STA. 215+33.59 RT TO STA. 216+62.65 RT	129.06	129.06						
STA. 215+64.00 RT TO STA. 216+76.50 RT	112.50		12.5	2			4	2
SUB-TOTAL =		5270	3663	36	2	0	76	38

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	13
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE

PAY ITEM NUMBER	63200310	63000001	63100167	63100169	63100085	78200005	72501000	
LOCATION	LENGTH (FT)	GUARDRAIL REMOVAL (FT)	SPBG TY. A 6' POST (FT)	TR. BAR.TERM., TY 1(SPL) TANGENT (50') (EACH)	TR. BAR.TERM., TY 1(SPL) FLARED (50') (EACH)	TR. BAR.TERM., TY 6 (EACH)	GUARDRAIL REFLECTORS TY. A (EACH)	TERMINAL MARKER DIRECT APPLIED (EACH)
STATION TO STATION								
FAP 315 (US 136)	(FT)	(FT)	(FT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
S.N. 054-0026 (EXISTING)								
STA. 764+54.65 RT TO STA. 765+57.16 RT	102.5	102.51						
STA. 764+07.33 RT TO STA. 765+57.35 RT	150.0		62.5	1		1	4	1
STA. 765+57.35 RT TO STA. 768+62.70 RT	305.3							
STA. 768+62.70 RT TO STA. 771+65.26 RT	302.6	302.56						
STA. 768+62.70 RT TO STA. 771+62.74 RT	300.0		212.5	1		1	4	1
STA. 764+54.84 LT TO STA. 765+57.09 LT	102.3	102.3						
STA. 764+44.74 LT TO STA. 765+57.25 LT	112.5		25.0	1		1	4	1
STA. 765+57.25 LT TO STA. 768+62.66 LT	305.4							
STA. 768+62.82 LT TO STA. 769+65.71 LT	102.9	102.9						
STA. 768+62.66 LT TO STA. 770+12.69 LT	150.0		62.5	1		1	4	1
S.N. 054-0027 (EXISTING)								
STA. 888+40.14 RT TO STA. 889+42.54 RT	102.4	102.4						
STA. 887+91.00 RT TO STA. 889+41.00 RT	150.0		62.5	1		1	4	1
STA. 889+41.37 RT TO STA. 894+61.60 RT	520.2							
STA. 894+59.84 RT TO STA. 895+62.52 RT	102.7	102.7						
STA. 894+61.60 RT TO STA. 895+74.11 RT	112.5		25.0	1		1	4	1
STA. 888+65.01 LT TO STA. 889+68.28 LT	103.3	103.3						
STA. 888+54.37 LT TO STA. 889+66.88 LT	112.5		25.0	1		1	4	1
STA. 889+66.65 LT TO STA. 894+86.13 LT	519.5							
STA. 894+85.50 LT TO STA. 895+88.36 LT	102.9	102.9						
STA. 894+86.13 LT TO STA. 896+36.16 LT	150.0		62.5	1		1	4	1
SUB-TOTAL =		1021	538	8	0	8	32	8
TOTAL =		6292	4200	44	2	8	108	46

TEMPORARY RAMPS SCHEDULE

PAY ITEM NUMBER	40600990		
LOCATION US 136	LENGTH	WIDTH	TEMPORARY RAMP
STATION	(FT)	(FT)	(SQ YD)
WEST END			
STA. 657+50.00	5.0	24.0	13.3
1250TH AVE			
STA. 09+39.33 TO STA. 09+88.12	5.0	50.5	28.1
1275TH AVE			
STA. 10+11.59 TO STA. 10+24.58	5.0	44.0	24.4
1350TH AVE			
STA. 10+20.12 TO STA. 10+31.57	5.0	30.5	16.9
STA. 10+21.02 TO STA. 10+36.17	5.0	35.5	19.7
BRIDGE 054-0026			
STA. 765+67.63	5.0	24.0	13.3
STA. 768+52.10	5.0	24.0	13.3
1475TH AVE			
STA. 10+12.31 TO STA. 10+33.37	5.0	32.0	17.8
ARMINGTON RD			
STA. 10+12.07 TO STA. 10+71.57	5.0	71.0	39.4
1600TH AVE			
STA. 10+12.08 TO STA. 10+48.21	5.0	44.0	24.4
STA. 10+11.71 TO STA. 10+43.95	5.0	52.0	28.9
BRIDGE 054-0027			
STA. 889+53.53	5.0	24.0	13.3
STA. 894+74.02	5.0	24.0	13.3
1700TH AVE			
STA. 10+12.14 TO STA. 10+42.79	5.0	42.0	23.3
1750TH AVE			
STA. 10+11.81 TO STA. 10+47.23	5.0	36.0	20.0
STA. 10+12.39 TO STA. 10+34.08	5.0	30.5	16.9
EAST END			
STA. 223+02.44	5.0	24.0	13.3
TOTAL =			340

CURB AND GUTTER SCHEDULE

PAY ITEM NUMBER	44000300	60603800
LOCATION US 136	LENGTH	CCC & G TY. B-6.12
STATION TO STATION	FT	FOOT
SN 054-0026 SOUTHWEST CURB		
765+15.00 TO 765+67.50	52.5	52.5
SN 054-0026 NORTHWEST CURB		
765+15.00 TO 765+67.50	52.5	52.5
SN 054-0026 SOUTHEAST CURB		
768+52.00 TO 769+03.00	51.0	51.0
SN 054-0026 NORTHEAST CURB		
768+52.00 TO 769+03.00	51.0	51.0
TOTAL =	207	207

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PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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SCHEDULES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10, BP (118)RS-4, BP	LOGAN	53	14
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

AGG SHOULDERS SCHEDULE					
PAY ITEM NUMBER					48102100
LOCATION US 136		LENGTH	WIDTH	AGGREGATE WEDGE SHOULDER, TYPE B	
STATION TO	STATION	FT	FT	TON	
EASTBOUND					
656+82.54	TO 659+92.62	310.1	3	7	
659+92.62	TO 660+52.43	59.8	10	3	
661+10.09	TO 677+38.09	1628.0	3	36	
677+61.43	TO 679+01.79	140.4	3	3	
679+28.22	TO 695+32.60	1604.4	3	36	
695+59.01	TO 707+27.20	1168.2	3	26	
707+87.38	TO 712+42.01	454.6	3	10	
712+84.15	TO 725+21.00	1236.9	3	27	
725+54.29	TO 739+68.77	1414.5	3	31	
740+08.40	TO 752+22.26	1213.9	3	27	
753+37.80	TO 759+73.35	635.6	3	14	
759+97.53	TO 761+06.87	109.3	3	2	
761+32.69	TO 765+67.68	435.0	3	10	
SN 054-0026					
768+51.98	TO 778+67.84	284.5	3	6	
779+04.77	TO 784+51.79	547.0	3	12	
784+75.57	TO 792+20.53	745.0	3	17	
792+50.72	TO 805+55.41	1304.7	3	29	
806+20.53	TO 808+10.31	189.8	3	4	
808+51.87	TO 822+08.96	1357.1	3	30	
822+35.49	TO 823+61.73	126.2	3	3	
823+85.68	TO 829+78.69	593.0	3	13	
830+34.21	TO 832+55.30	221.1	3	5	
832+89.14	TO 836+36.61	347.5	3	8	
836+73.82	TO 845+12.29	838.5	3	19	
845+84.23	TO 880+75.18	3491.0	3	78	
881+13.00	TO 889+40.84	827.8	3	18	
SN 054-0027					
894+61.61	TO 897+80.24	318.6	3	7	
898+38.88	TO 901+94.78	355.9	3	8	
STATION EQUATION 901+94.78 (BK) = 174+94.30 (AH)					
174+94.30	TO 197+13.73	2219.4	3	49	
197+57.19	TO 223+02.17	2545.0	3	57	
(THICKNESS = 1.5")				SUB-TOTAL =	596

AGG SHOULDERS SCHEDULE					
PAY ITEM NUMBER					48102100
LOCATION US 136		LENGTH	WIDTH	AGGREGATE WEDGE SHOULDER, TYPE B	
STATION TO	STATION	FT	FT	TON	
WESTBOUND					
657+15.80	TO 672+42.51	1526.7	3	34	
672+88.82	TO 695+35.27	2246.5	3	50	
695+56.18	TO 697+23.24	167.1	3	4	
697+45.47	TO 711+36.83	1391.4	3	31	
711+36.83	TO 712+09.34	72.5	10	4	
712+09.34	TO 712+33.35	24.0	3	1	
738+73.34	TO 739+68.24	94.9	3	2	
739+96.03	TO 760+93.21	2097.2	3	47	
76+18.55	TO 765+67.39	68948.8	3	1532	
SN 054-0026					
768+52.18	TO 773+05.66	453.5	3	10	
773+66.62	TO 784+67.41	1100.8	3	24	
784+94.19	TO 801+80.26	1686.1	3	37	
802+04.36	TO 820+03.52	1799.2	3	40	
820+35.88	TO 821+97.59	161.7	3	4	
822+48.98	TO 829+99.37	750.4	3	17	
830+24.69	TO 831+09.46	84.8	3	2	
831+09.46	TO 831+44.32	71.5	3	2	
831+81.45	TO 832+15.69	70.0	3	2	
832+15.69	TO 832+68.32	52.6	3	1	
832+96.05	TO 841+38.39	842.3	3	19	
841+79.59	TO 844+97.95	318.4	3	7	
845+58.16	TO 889+66.81	4408.6	3	98	
SN 054-0027					
894+86.19	TO 901+94.78	708.6	3	16	
STATION EQUATION 901+94.78 (BK) = 174+94.30 (AH)					
174+94.30	TO 197+17.06	2222.8	3	49	
197+53.03	TO 223+02.72	2549.7	3	57	
(THICKNESS = 1.5")				SUB-TOTAL =	2088
				TOTAL =	2684

BOX CULVERT SCHEDULE				
PAY ITEM NUMBER	X5012650	54248510	50800105	54001001
LOCATION	CONCRETE HEADWALL REMOVAL SPECIAL	CONCRETE COLLAR	REINFORCEMENT BARS	BOX CULVERT END SECTIONS, CULVERT NO. 1
STATION	(EACH)	(CU YD)	(POUND)	(EACH)
STA. 687+91.30	1	0.69	58	1
Total =		1	0.69	58

EXCAVATION SCHEDULE			
PAY ITEM NUMBER			20400800
LOCATION	LENGTH	WIDTH	FURNISHED EXCAVATION
STATION TO STATION	(FT)	(FT)	(CU YD)
RIGHT			
STA. 659+92.62 TO STA. 660+52.43	59.8	10.0	9
LEFT			
STA. 711+36.83 TO STA. 712+09.34	72.5	10.0	10
Total =			19

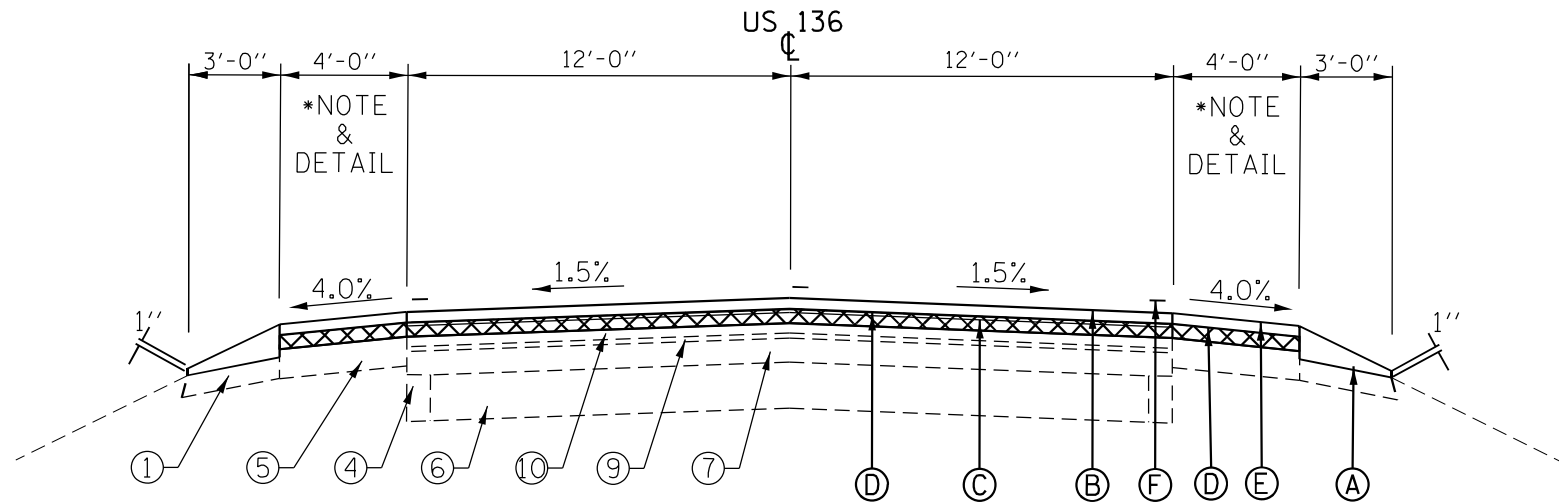
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10, BP (118)RS-4, BP	LOGAN	53	15
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				



TYPICAL #1

STA 657+50.00 TO STA 711+42.01
 STA 715+91.53 TO STA 764+41.26
 STA 769+79.85 TO STA 804+13.95
 STA 814+48.95 TO STA 825+89.95

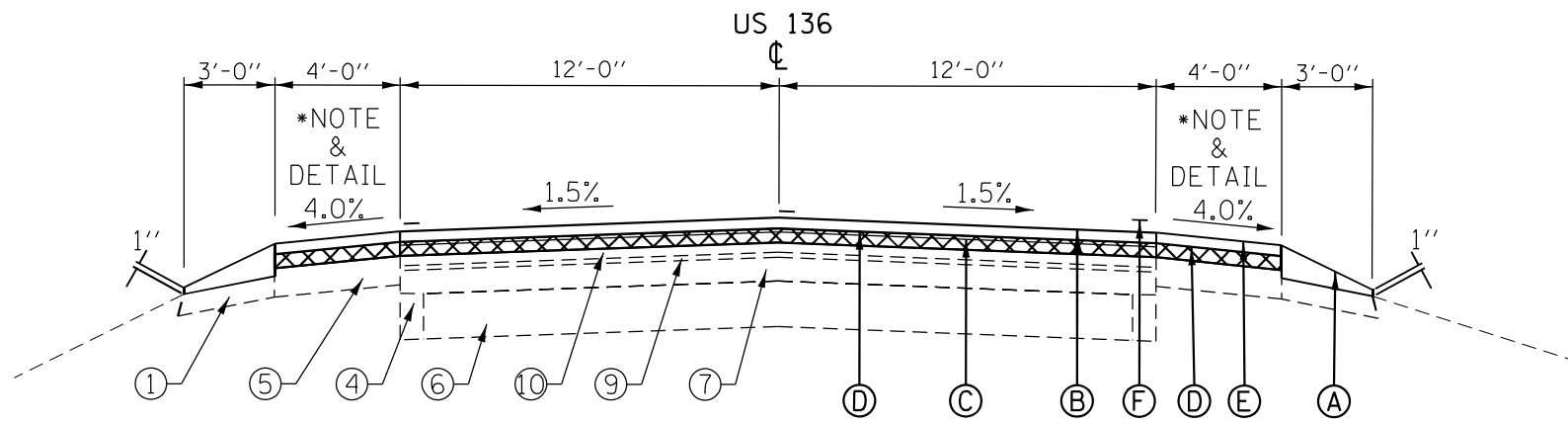
LEGEND

- Ⓐ PROP. AGGREGATE WEDGE SHOULDER (TYPE B)
- Ⓑ PROP. HMA SURFACE COURSE, IL-9.5, MIX "C" N50, 1.5"
- Ⓒ PROP. HMA BINDER COURSE, IL-9.5FG, N50, 1.25"
- Ⓓ PROP. HMA SURFACE REMOVAL, 1.5"
- Ⓔ PROP. HMA SHOULDERS, 2.75"
- Ⓕ PROP. PAINT PAVEMENT MARKING, 5"

- ① EXIST. AGGREGATE SHOULDERS
- ② EXIST. SUB-BASE GRANULAR MATERIAL, VAR. DEPTH
- ③ EXIST. STABILIZED SUBBASE, 4"
- ④ EXIST. HMA BASE COURSE WIDENING, 9"
- ⑤ EXIST. HMA SHOULDERS, 8"
- ⑥ EXIST. PCC PAVEMENT 9"-6"-9"
- ⑦ EXIST. HMA SURFACE/BINDER COURSE, 7"
- ⑧ EXIST. HMA BINDER COURSE, 11"
- ⑨ EXIST. HMA BINDER COURSE, VARIABLE (3/4"- 2 1/2")
- ⑩ EXIST. HMA SURFACE COURSE, VARIABLE (1 1/2"- 2 1/2")

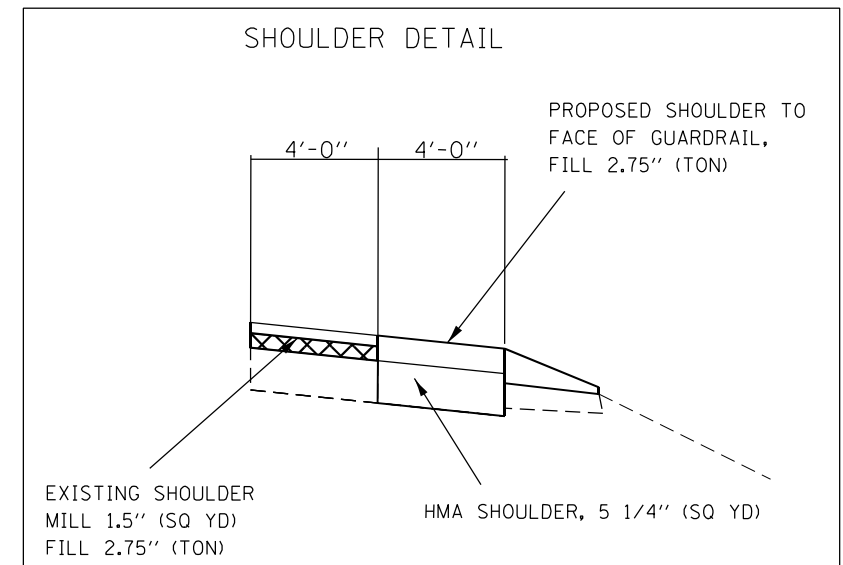
***NOTE & DETAIL:**

SEE SCHEDULES FOR SHOULDERS
 WIDTH LIMITS AND GUARDRAIL LOCATIONS.



TYPICAL #2

STA 849+89.95 TO STA 888+11.26
 STA 896+16.45 TO STA 901+94.78
 STATION EQUATION: STA 901+94.78 (BK) = STA 174+94.30 (AH)
 STA 174+94.30 TO STA 177+95.05
 STA 185+01.43 TO STA 223+02.44



MODEL: Detail
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	DRAWN -	REVISED -
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PLOT DATE = 8/17/2021	DATE -	REVISED -

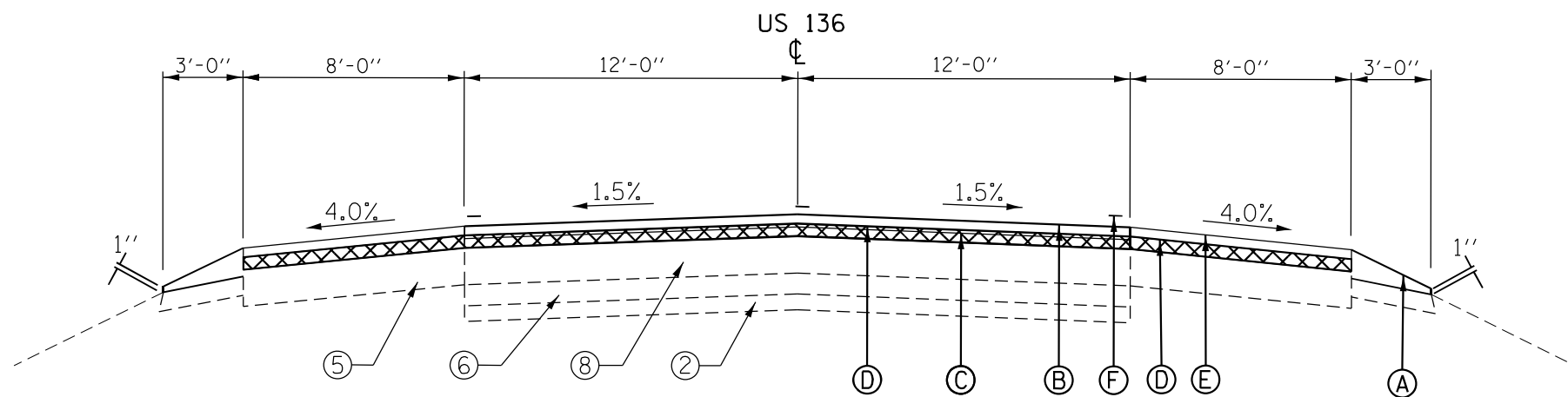
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315		LOGAN	53	16
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

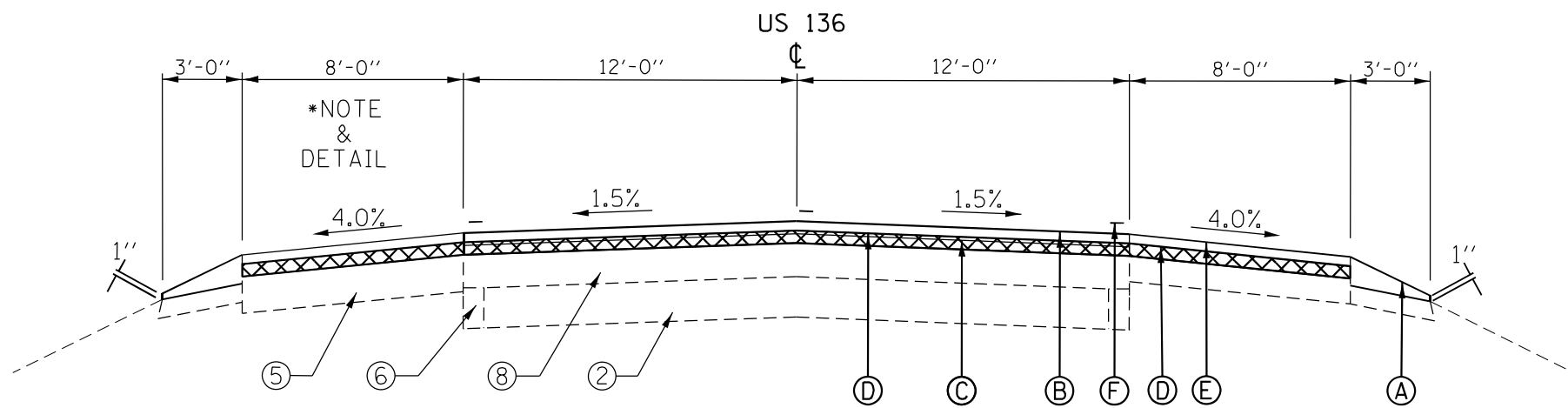
*(117)RS-10, BP (118)RS-4, BP



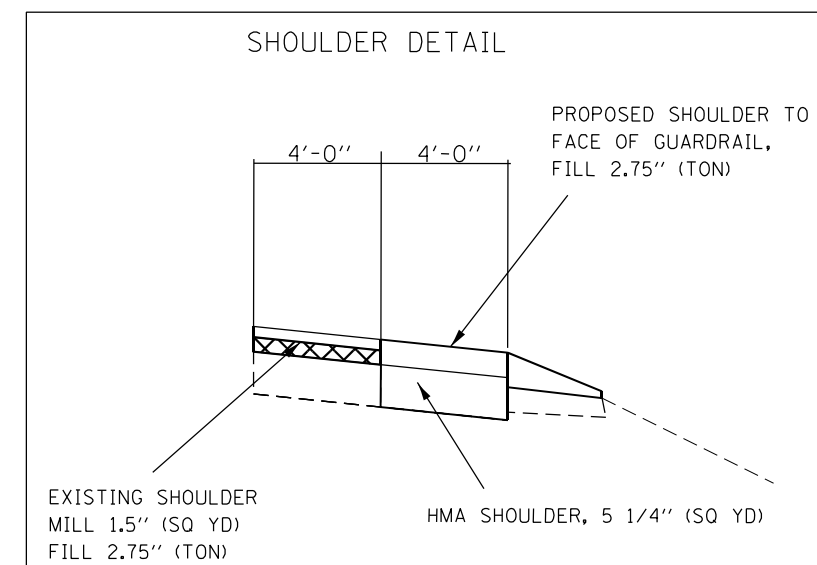
- LEGEND**
- Ⓐ PROP. AGGREGATE WEDGE SHOULDER (TYPE B)
 - Ⓑ PROP. HMA SURFACE COURSE, IL-9.5, MIX "C" N50, 1.5"
 - Ⓒ PROP. HMA BINDER COURSE, IL-9.5FG, N50, 1.25"
 - Ⓓ PROP. HMA SURFACE REMOVAL, 1.5"
 - Ⓔ PROP. HMA SHOULDERS, 2.75"
 - Ⓕ PROP. PAINT PAVEMENT MARKING, 5"

- Ⓛ EXIST. AGGREGATE SHOULDERS
- Ⓜ EXIST. SUB-BASE GRANULAR MATERIAL, VAR. DEPTH
- Ⓨ EXIST. STABILIZED SUBBASE, 4"
- Ⓩ EXIST. HMA BASE COURSE WIDENING, 9"
- ⓐ EXIST. HMA SHOULDERS, 8"
- ⓑ EXIST. PCC PAVEMENT 9'-6"-9"
- ⓓ EXIST. HMA SURFACE/BINDER COURSE, 7"
- ⓔ EXIST. HMA BINDER COURSE-, 11"
- ⓕ EXIST. HMA BINDER COURSE, VARIABLE (3/4"- 2 1/2")
- ⓖ EXIST. HMA SURFACE COURSE, VARIABLE (1 1/2"- 2 1/2")

TYPICAL #3
STA 713+76.51 TO STA 714+30.17



***NOTE & DETAIL:**
SEE SCHEDULES FOR SHOULDERS
WIDTH LIMITS AND GUARDRAIL LOCATIONS.

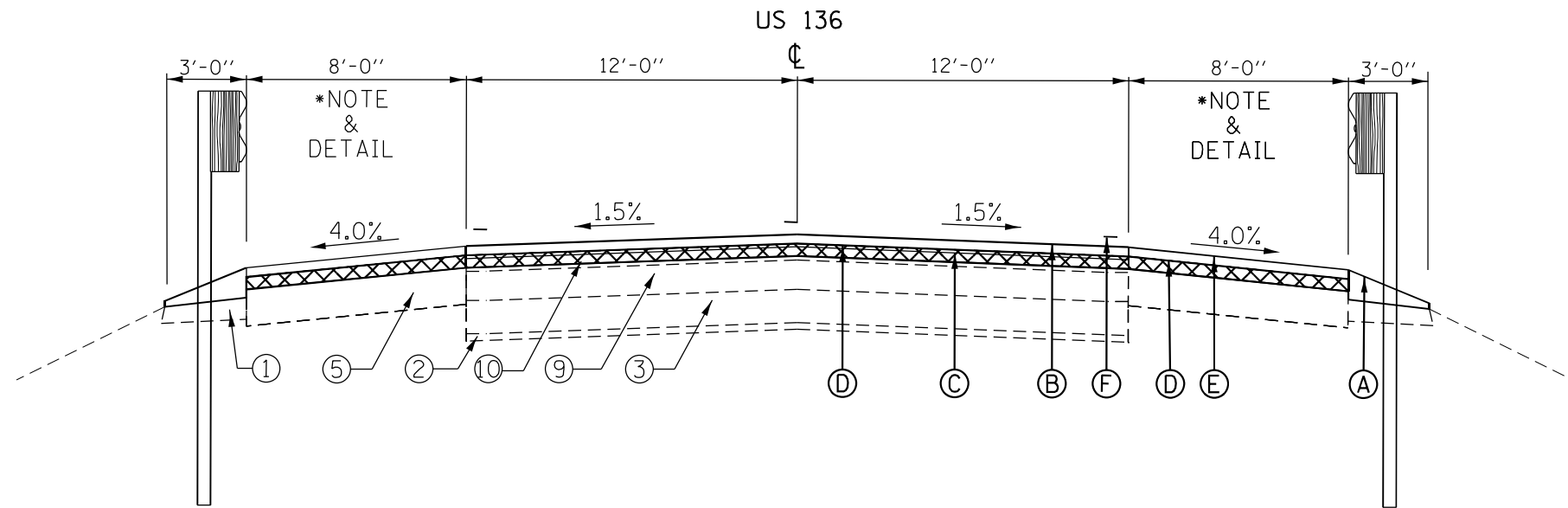


TYPICAL #4
STA 711+42.01 TO STA 713+76.51
STA 714+30.17 TO STA 715+91.53

MODEL: Detail
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SCALE: SHEET OF SHEETS STA. TO STA.										ILLINOIS FED. AID PROJECT										

*(117)RS-10, BP (118)RS-4, BP



TYPICAL #7

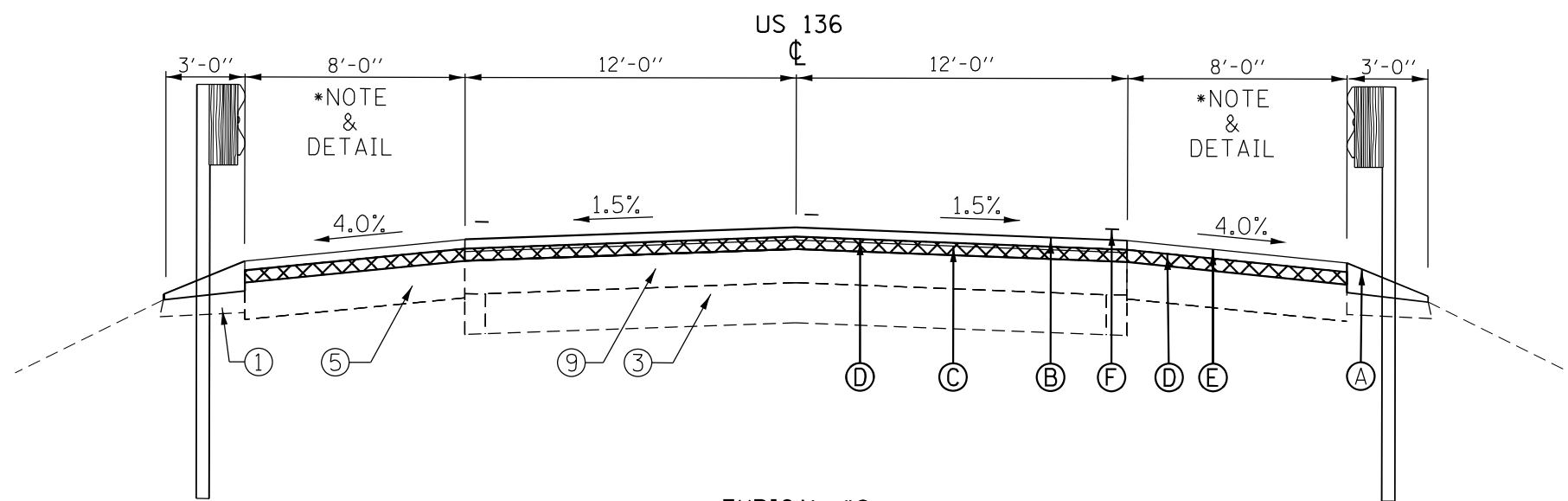
STA 181+18.93 TO STA 181+75.21

LEGEND

- Ⓐ PROP. AGGREGATE WEDGE SHOULDER (TYPE B)
 - Ⓑ PROP. HMA SURFACE COURSE, IL-9.5, MIX "C" N50, 1.5"
 - Ⓒ PROP. HMA BINDER COURSE, IL-9.5FG, N50, 1.25"
 - Ⓓ PROP. HMA SURFACE REMOVAL, 1.5"
 - Ⓔ PROP. HMA SHOULDERS, 2.75"
 - ⓕ PROP. PAINT PAVEMENT MARKING, 5"
-
- ① EXIST. AGGREGATE SHOULDERS
 - ② EXIST. SUB-BASE GRANULAR MATERIAL, VAR. DEPTH
 - ③ EXIST. STABILIZED SUBBASE, 4"
 - ④ EXIST. HMA BASE COURSE WIDENING, 9"
 - ⑤ EXIST. HMA SHOULDERS, 8"
 - ⑥ EXIST. PCC PAVEMENT 9'-6"-9"
 - ⑦ EXIST. HMA SURFACE/BINDER COURSE, 7"
 - ⑧ EXIST. HMA BINDER COURSE-, 11"
 - ⑨ EXIST. HMA BINDER COURSE, VARIABLE (3/4"- 2 1/2")
 - ⑩ EXIST. HMA SURFACE COURSE, VARIABLE (1 1/2"- 2 1/2")

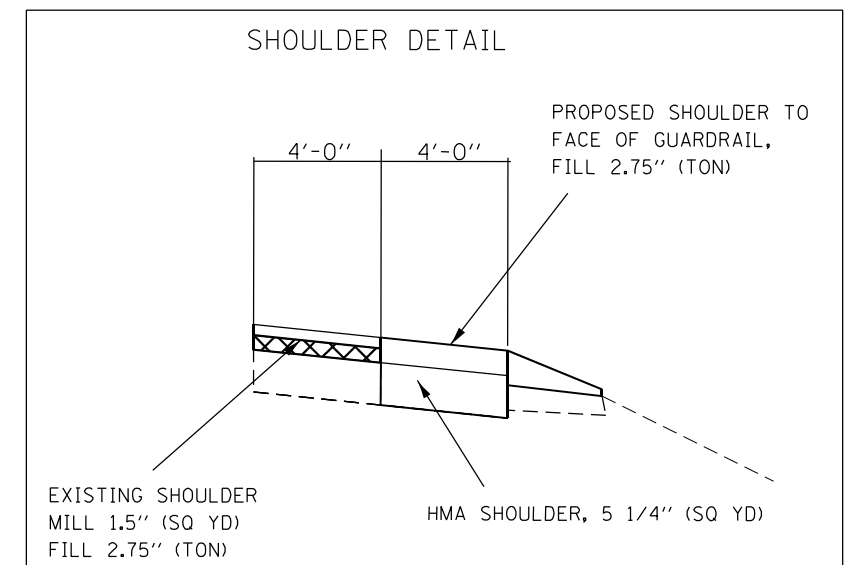
***NOTE & DETAIL:**

SEE SCHEDULES FOR SHOULDERS WIDTH LIMITS AND GUARDRAIL LOCATIONS.



TYPICAL #8

STA 177+95.05 TO STA 181+18.93
 STA 181+75.21 TO STA 185+01.43



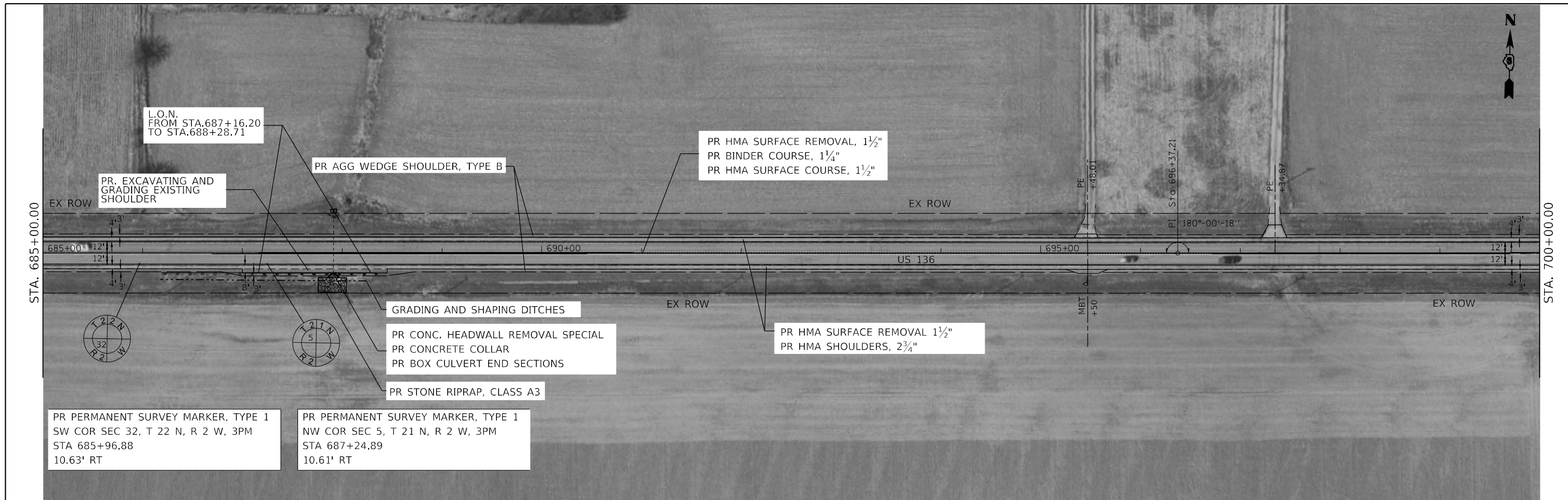
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PLOT SCALE = 60.1624' / in.	DRAWN -	REVISED -					315			LOGAN	53	19			
PLOT DATE = 8/17/2021	CHECKED -	REVISED -									CONTRACT NO. 72K81				
	DATE -	REVISED -					SCALE: SHEET OF SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				

*(117)RS-10, BP (118)RS-4, BP



FILE NAME =	USER NAME = candel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 136 PLAN SHEETS			F.A.P. RTE. = 315	SECTION = *	COUNTY = LOGAN	TOTAL SHEETS = 53	SHEET NO. = 20
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	PLOT DATE = 8/17/2021	DATE -	REVISED -		*(117)RS-10,BP (118)RS-4,BP							

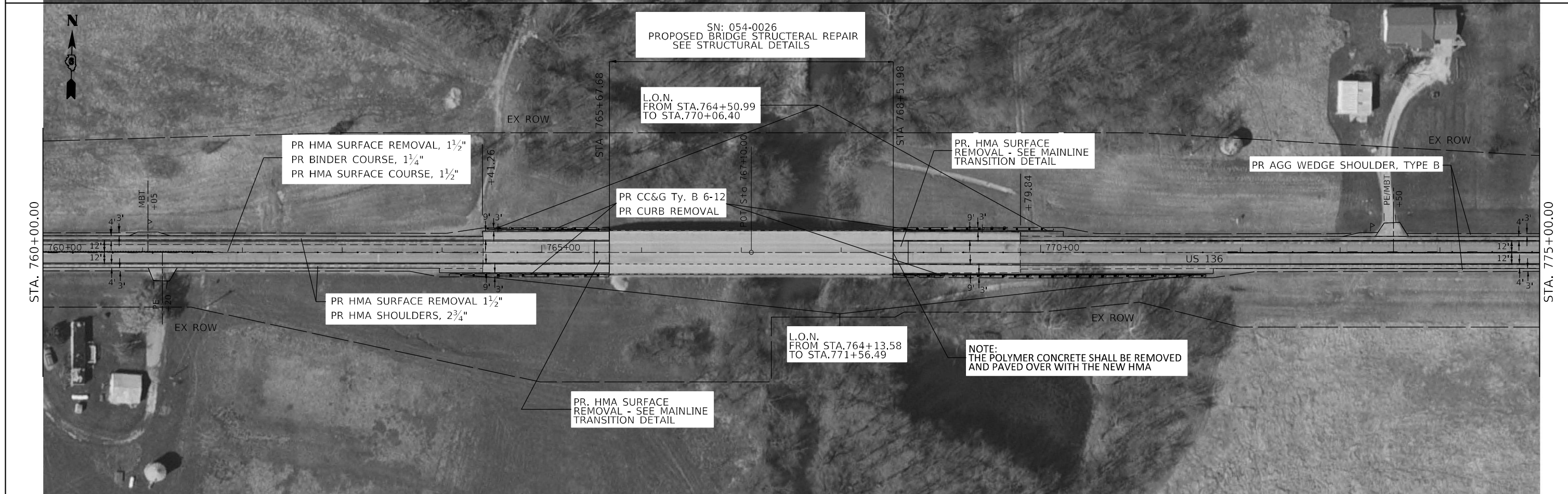


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Default	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 72K81			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/17/2021	DATE -	REVISED -		SCALE:	SHEET	OF SHEETS	STA.	TO STA.			

*(117)RS-10,BP (118)RS-4,BP

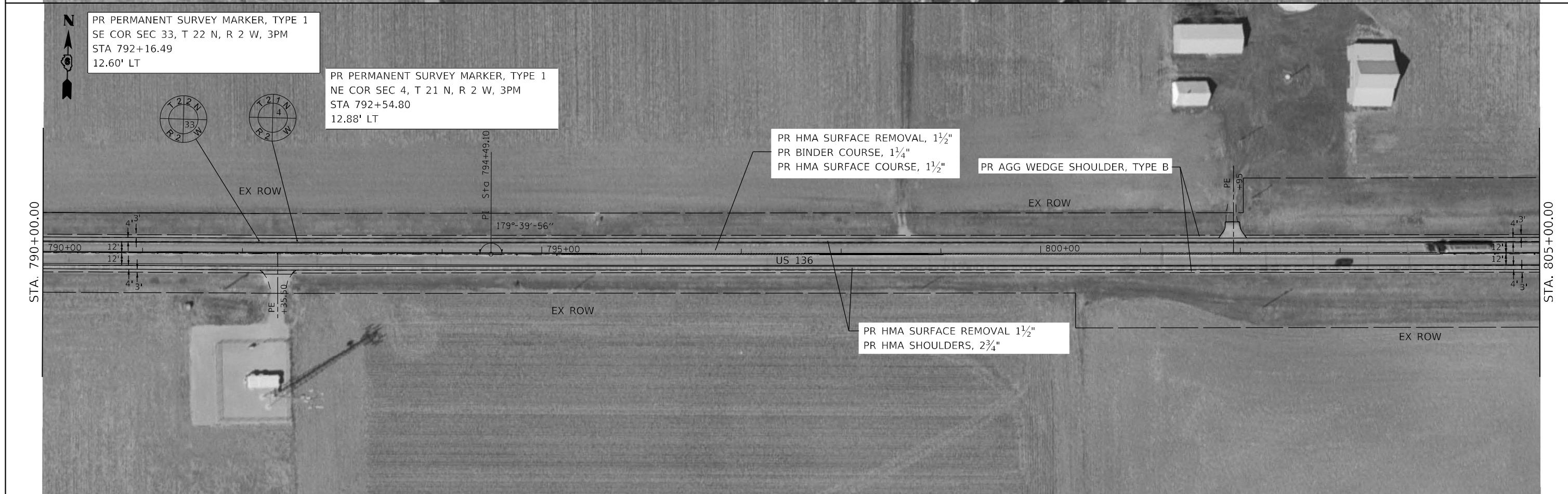
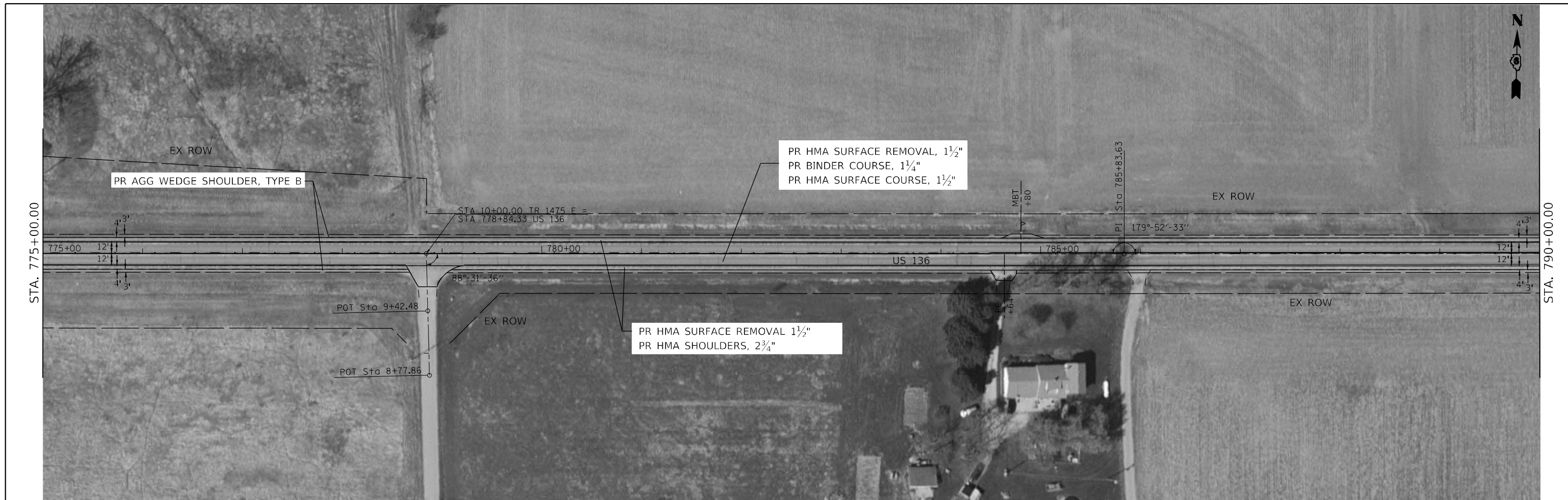


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Default	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 72K81			ILLINOIS	FED. AID PROJECT			
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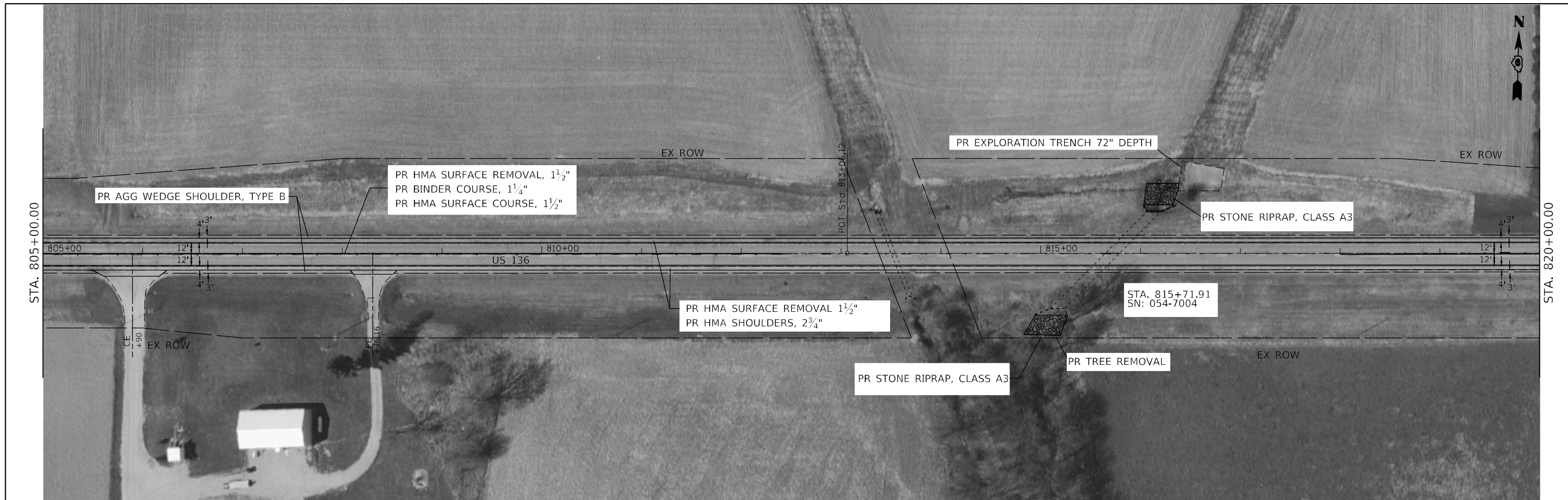
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PLOT SCALE = 100,0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 72K81							
PLOT DATE = 8/19/2021		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

*(117)RS-10,BP (118)RS-4,BP



FILE NAME =	USER NAME = cando	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 136 PLAN SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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Default		CHECKED -	REVISED -								CONTRACT NO. 72K81				
	PLOT SCALE = 100,0000' / in.	DATE -	REVISED -								ILLINOIS FED. AID PROJECT				

*(117)RS-10,BP (118)RS-4,BP



FILE NAME =	USER NAME = cando	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 136 PLAN SHEETS			F.A.P. RTE. = 315	SECTION = *	COUNTY = LOGAN	TOTAL SHEETS = 53	SHEET NO. = 25	
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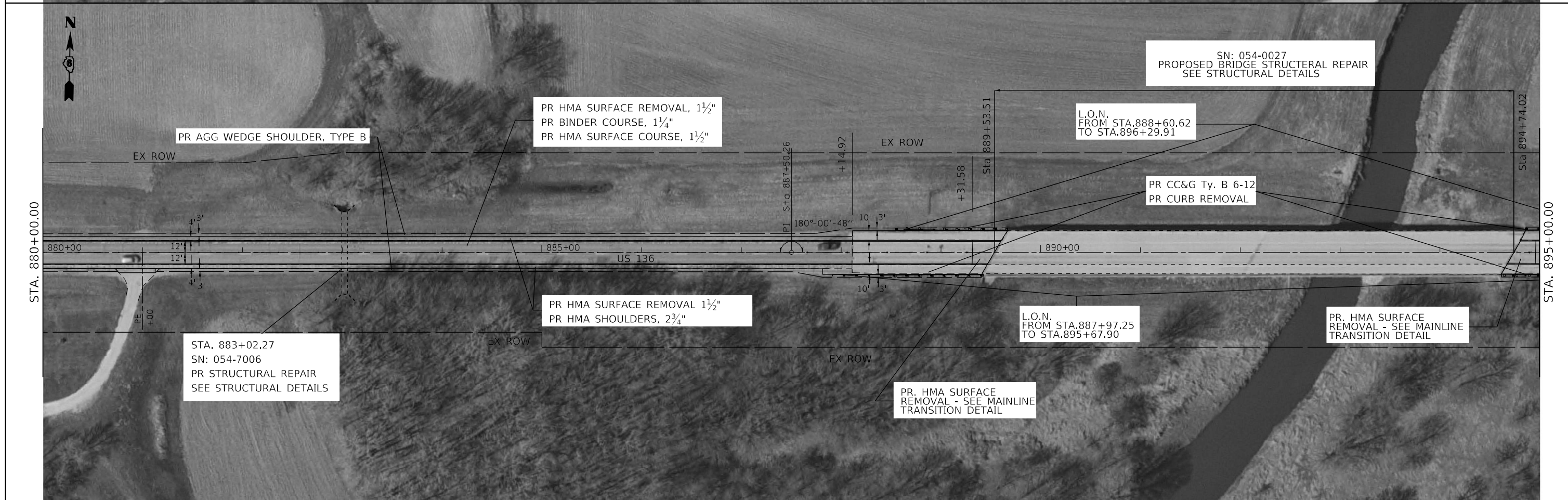
PR PERMANENT SURVEY MARKER, TYPE 1
 SW COR SE 1/4 SE 1/4 COR SEC 34, T 22 N, R 2 W, 3PM
 STA 831+78.91
 11.15' RT

*(117)RS-10,BP (118)RS-4,BP



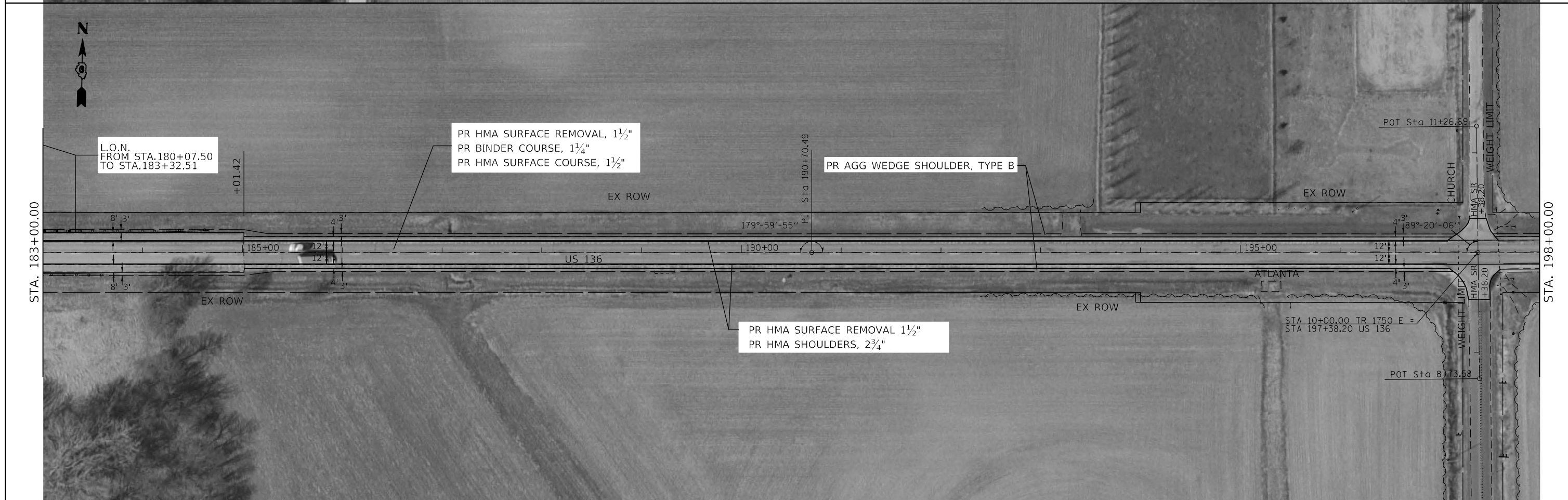
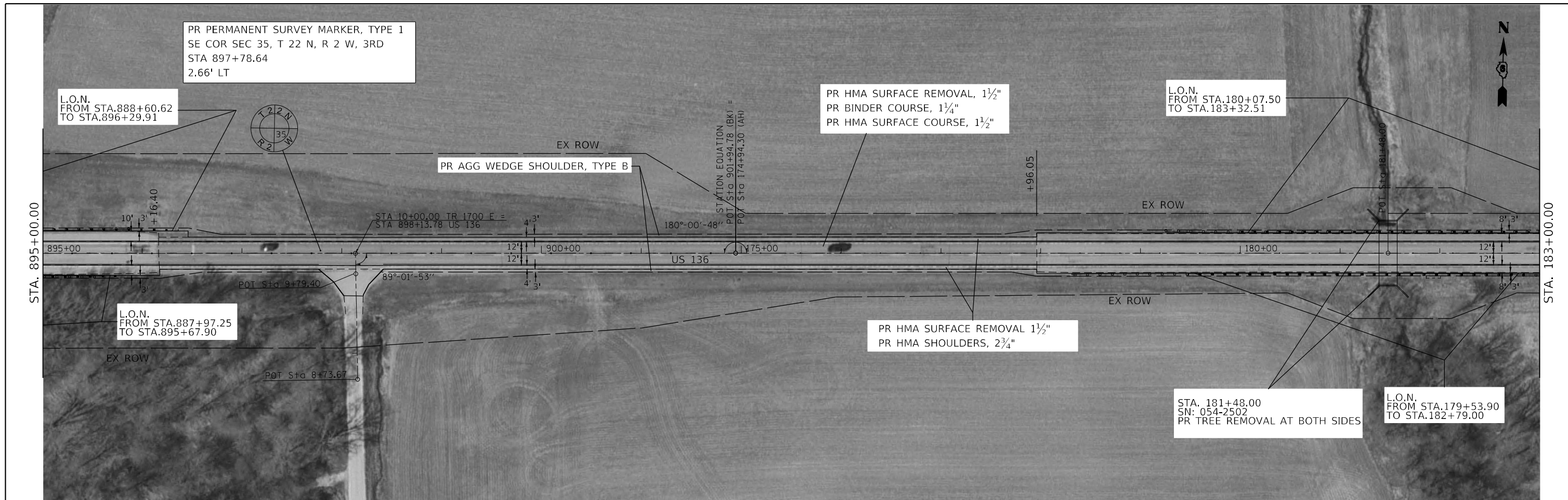
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Default		DATE -	REVISED -										

*(117)RS-10,BP (118)RS-4,BP

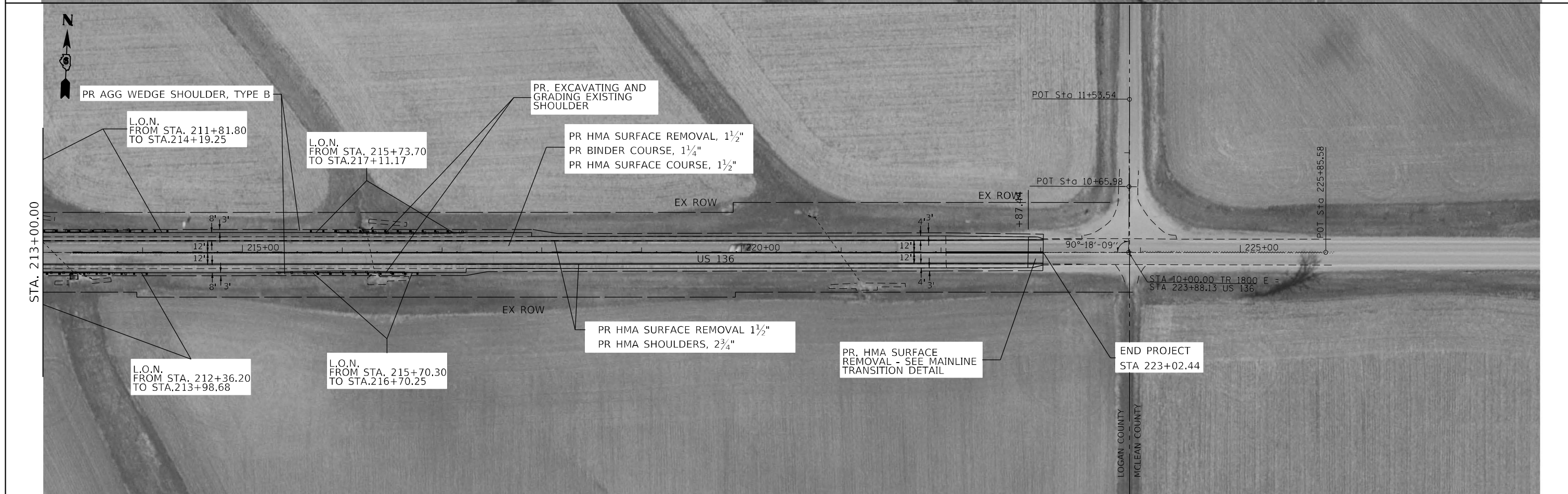
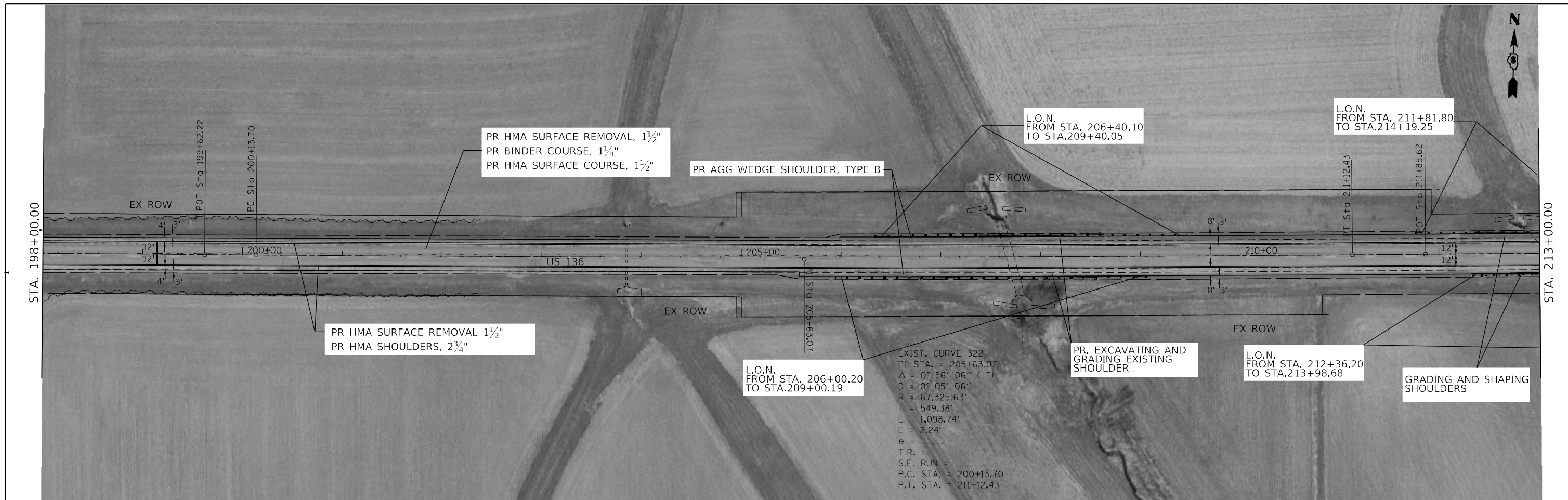


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	PLOT DATE = 8/17/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			

*(117)RS-10,BP (118)RS-4,BP

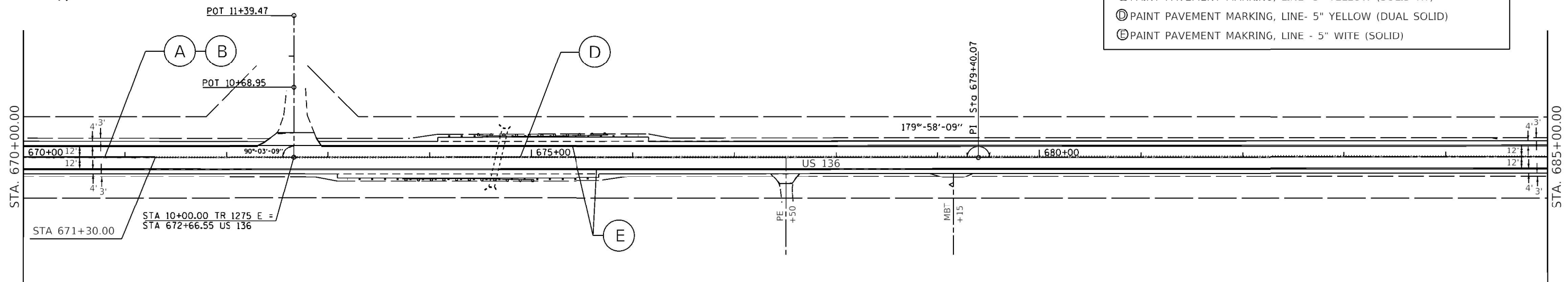
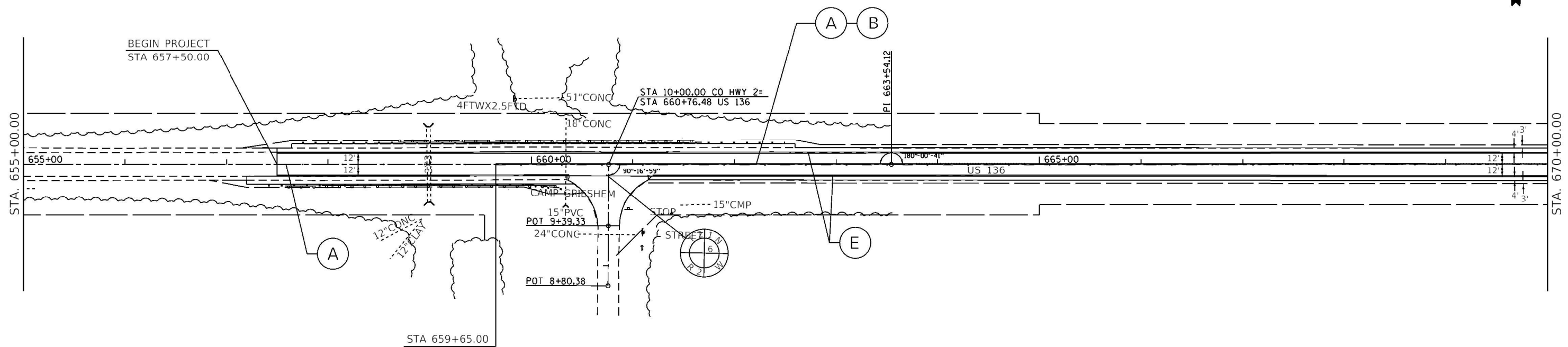


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Default	PLOT DATE = 8/17/2021	DATE -	REVISED -										
*(117)RS-10,BP (118)RS-4,BP													



FILE NAME =	USER NAME = canals	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 136 PLAN SHEETS			F.A.P. R.T.E. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =	
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	PLOT DATE = 8/17/2021	DATE -	REVISED -								ILLINOIS	FED. AID PROJECT	

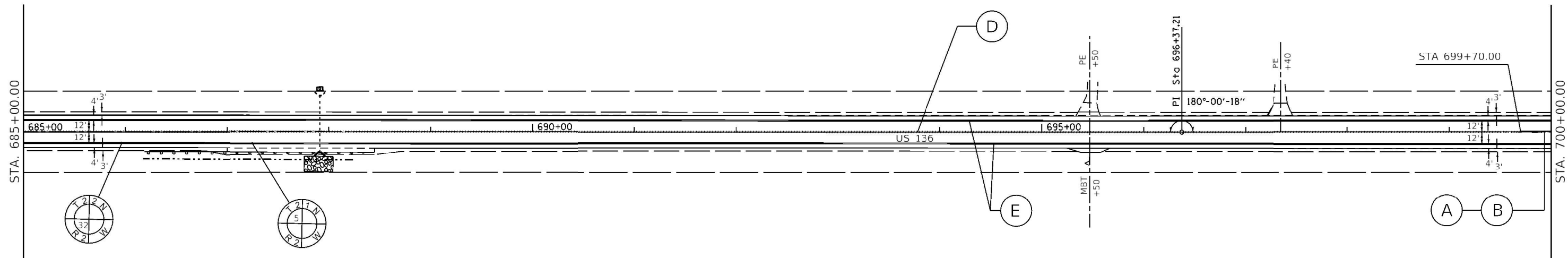
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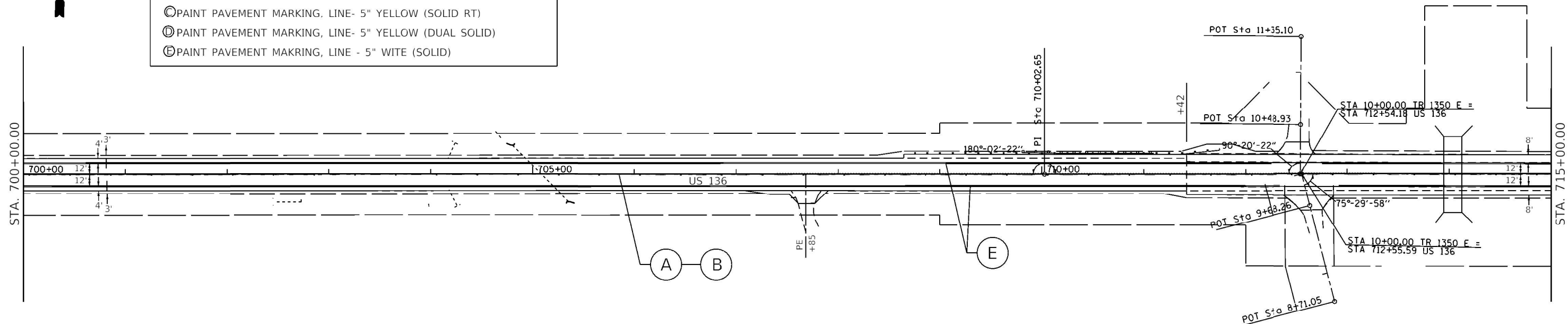
PAVEMENT MARKING LEGEND	
Ⓐ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SKIP DASH)
Ⓑ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID LT)
Ⓒ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID RT)
Ⓓ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (DUAL SOLID)
Ⓔ	PAINT PAVEMENT MAKRING, LINE - 5" WITE (SOLID)

FILE NAME =	USER NAME = cancels	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLAN SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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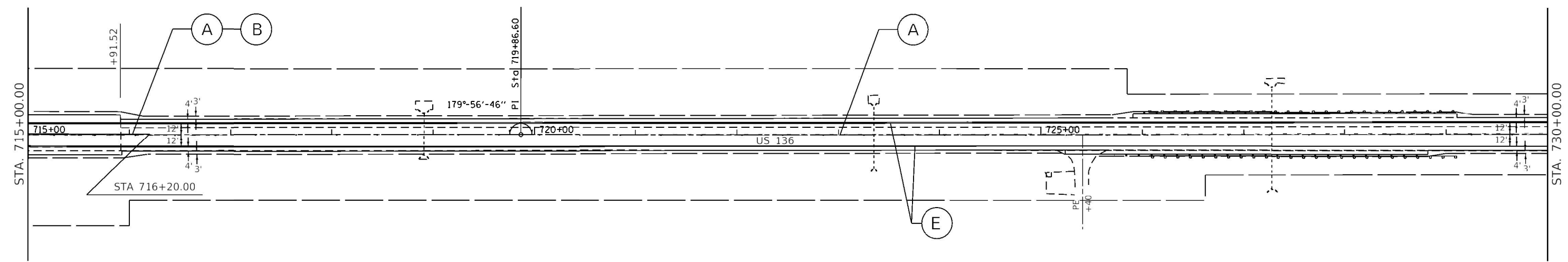
*(117)RS-10,BP (118)RS-4,BP



PAVEMENT MARKING LEGEND	
Ⓐ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SKIP DASH)
Ⓑ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID LT)
Ⓒ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID RT)
Ⓓ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (DUAL SOLID)
Ⓔ	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)

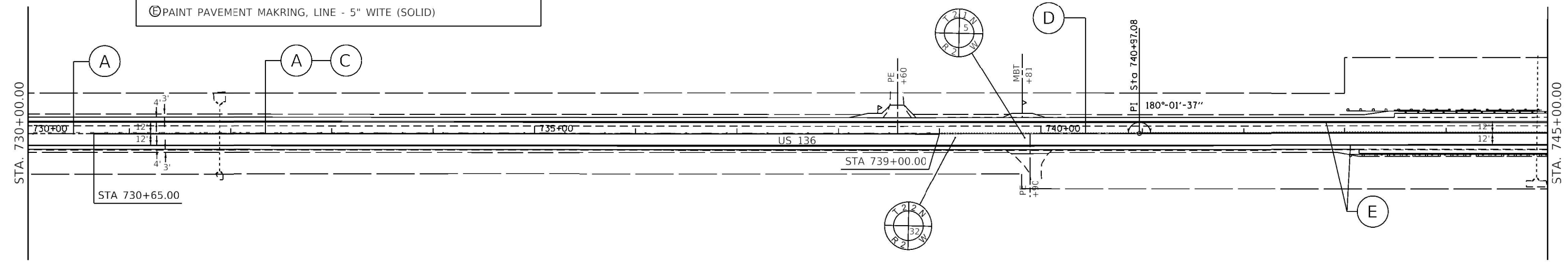


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Default	PLOT DATE = 8/17/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	*(117)RS-10,BP (118)RS-4,BP	

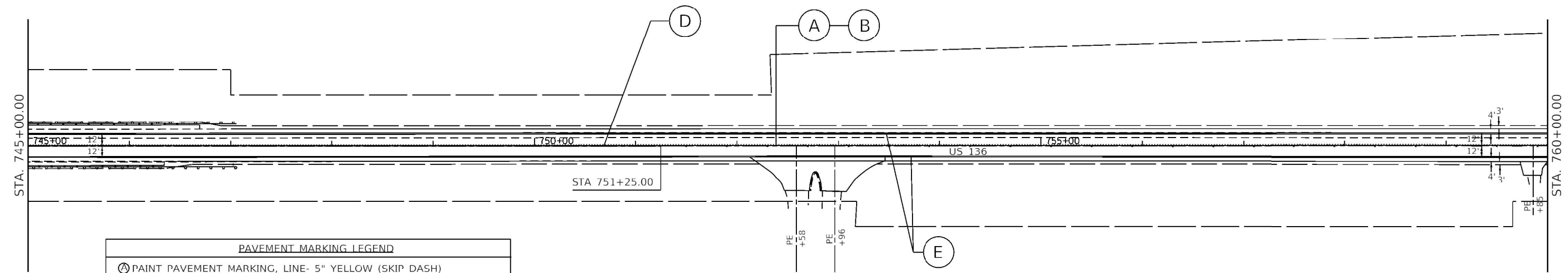


PAVEMENT MARKING LEGEND

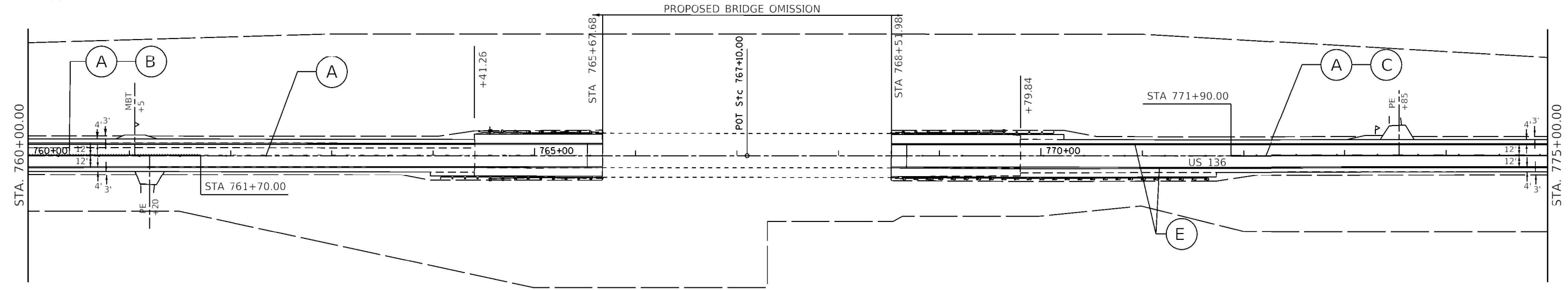
Ⓐ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SKIP DASH)
Ⓑ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID LT)
Ⓒ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID RT)
Ⓓ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (DUAL SOLID)
Ⓔ	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)



FILE NAME =	USER NAME = cancels	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLAN SHEETS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT DATE = 8/17/2021	DATE -	REVISED -		CONTRACT NO. 72K81				ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	*(117)RS-10,BP (118)RS-4,BP		



PAVEMENT MARKING LEGEND	
Ⓐ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SKIP DASH)
Ⓑ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID LT)
Ⓒ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID RT)
Ⓓ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (DUAL SOLID)
Ⓔ	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)



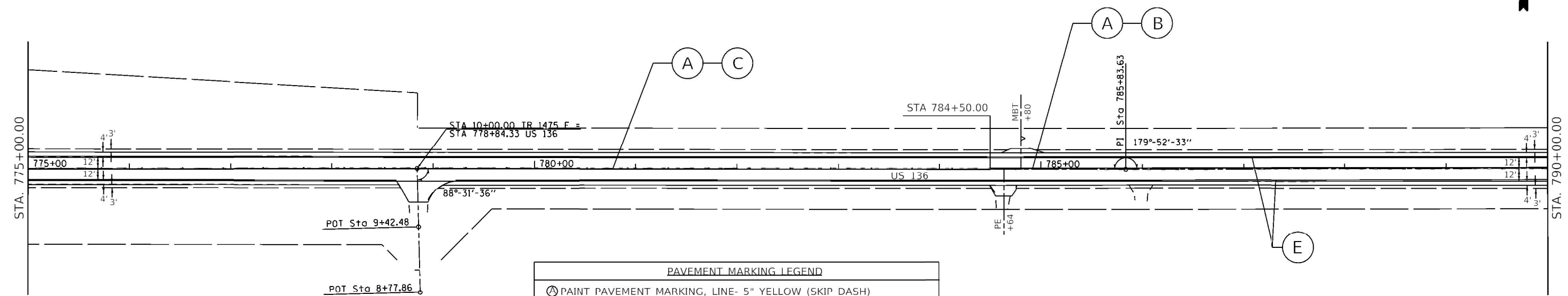
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

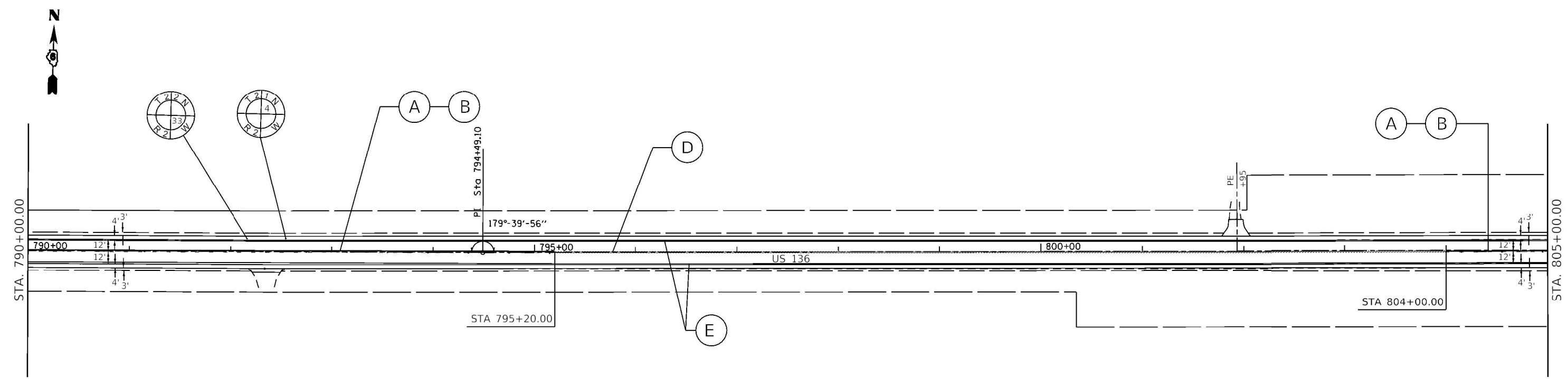
PAVEMENT MARKING PLAN SHEETS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315		LOGAN	53	33
CONTRACT NO.			72K81	

*(117)RS-10,BP (118)RS-4,BP

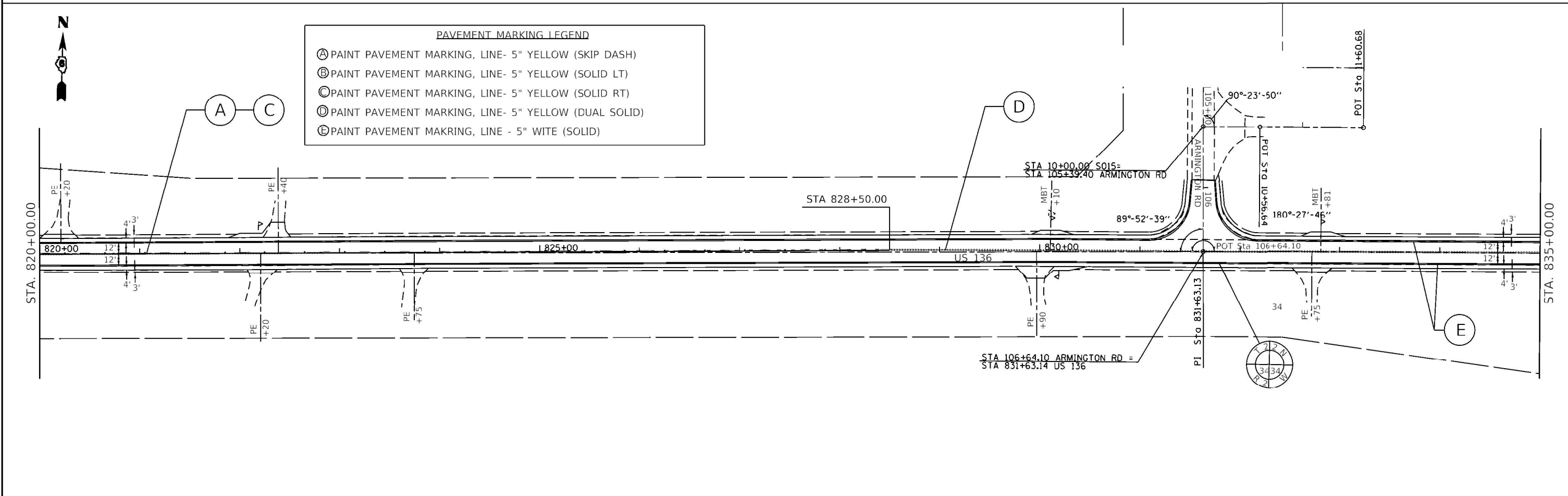
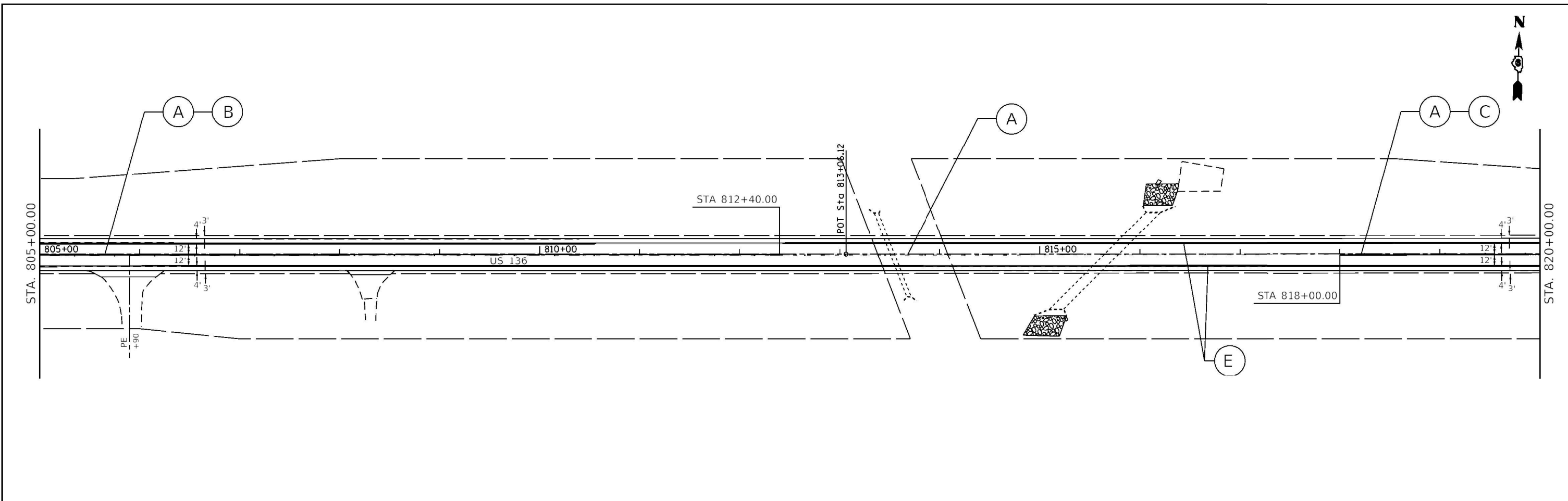


PAVEMENT MARKING LEGEND	
Ⓐ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SKIP DASH)
Ⓑ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID LT)
Ⓒ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID RT)
Ⓓ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (DUAL SOLID)
Ⓔ	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)

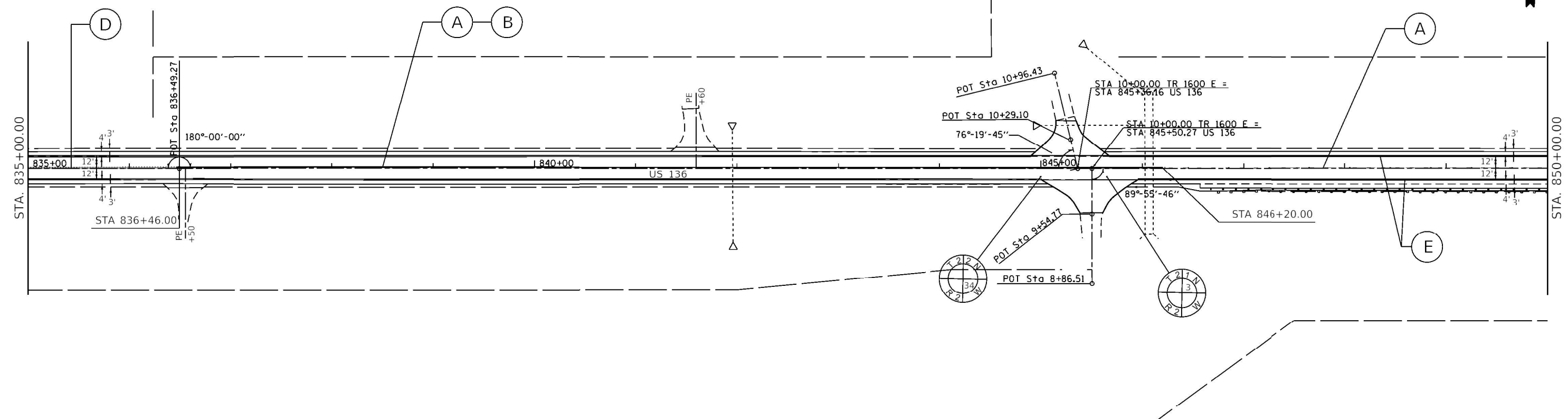


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	PLOT DATE = 8/17/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		

*(117)RS-10,BP (118)RS-4,BP

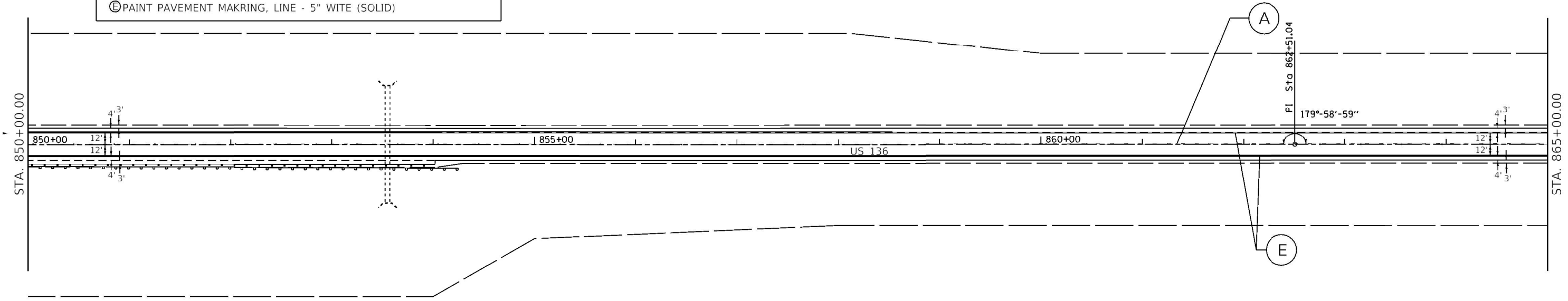


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*(117)RS-10,BP (118)RS-4,BP												

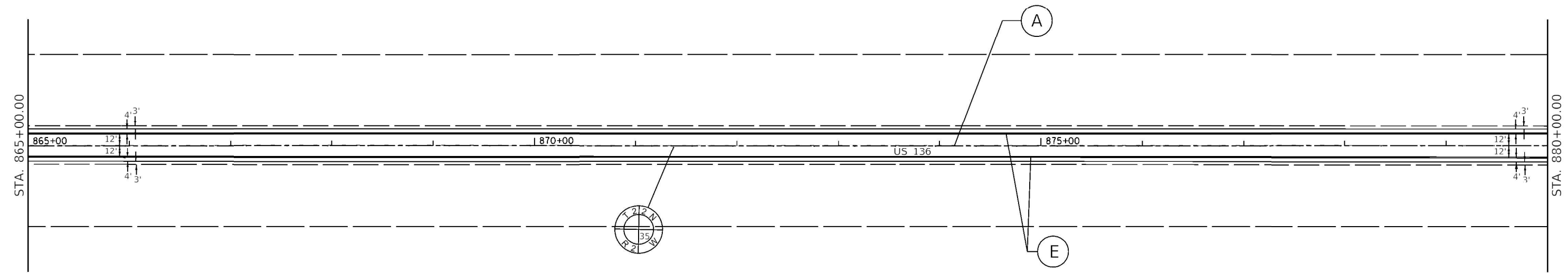


PAVEMENT MARKING LEGEND

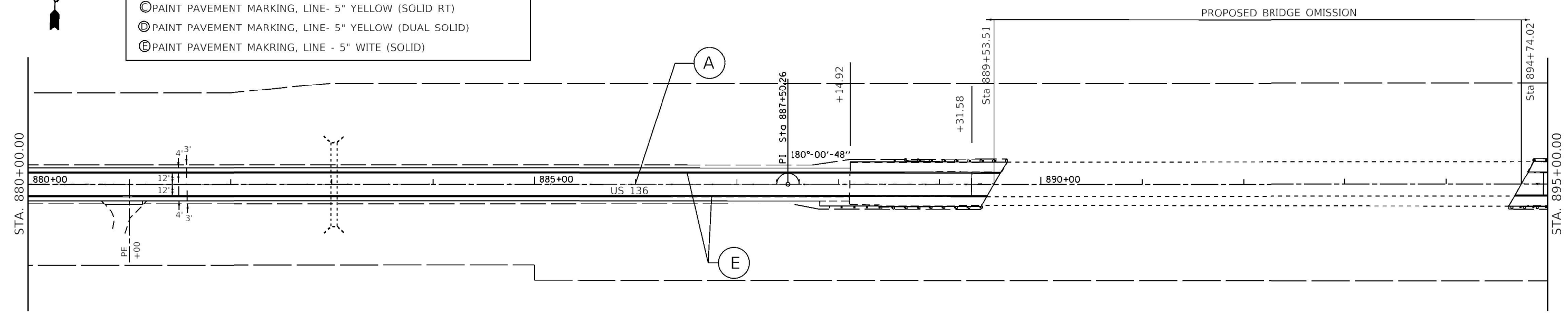
Ⓐ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SKIP DASH)
Ⓑ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID LT)
Ⓒ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID RT)
Ⓓ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (DUAL SOLID)
Ⓔ	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)



FILE NAME =	USER NAME = cancels	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLAN SHEETS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT DATE = 8/17/2021	DATE -	REVISED -		CONTRACT NO. 72K81				ILLINOIS	FED. AID PROJECT			
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PAVEMENT MARKING LEGEND	
Ⓐ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SKIP DASH)
Ⓑ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID LT)
Ⓒ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID RT)
Ⓓ	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (DUAL SOLID)
Ⓔ	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)



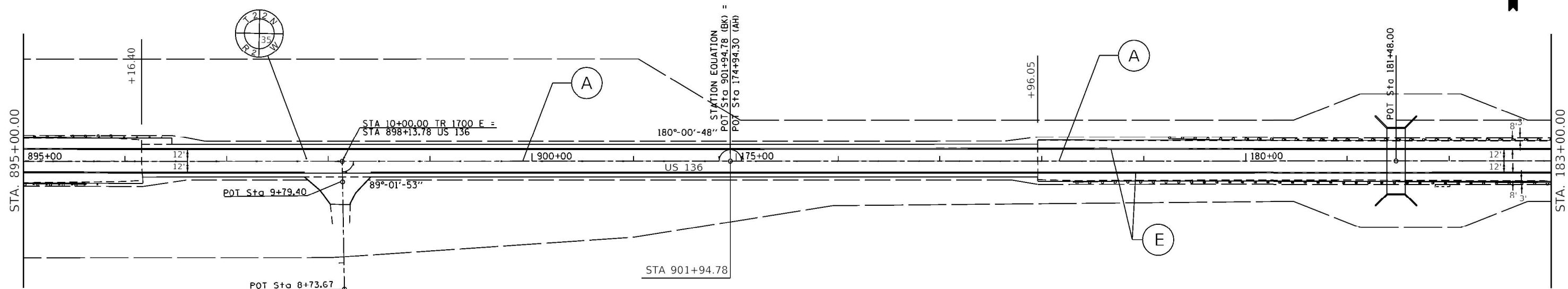
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PAVEMENT MARKING PLAN SHEETS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

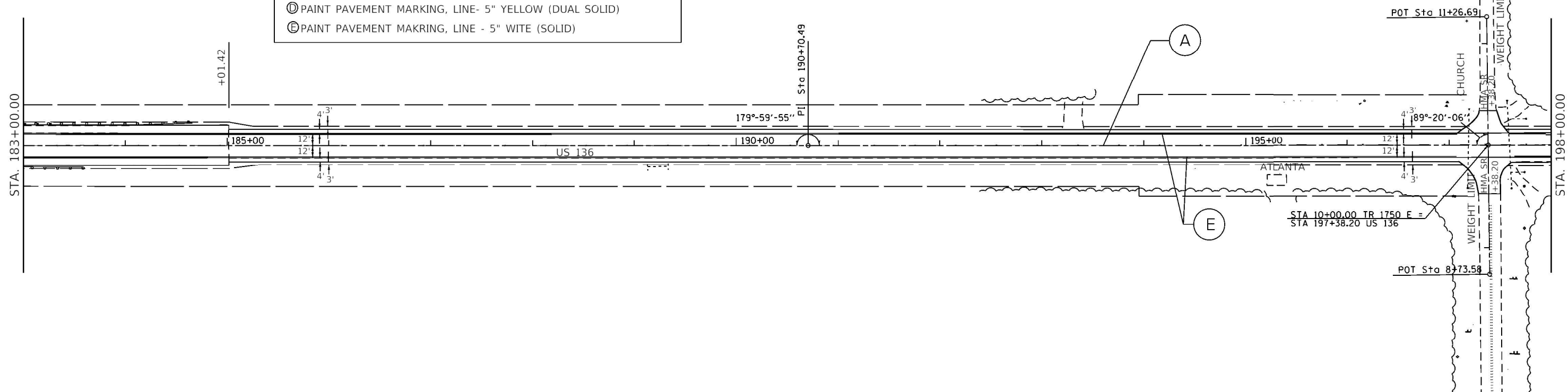
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315		LOGAN	53	37
CONTRACT NO.			72K81	
ILLINOIS FED. AID PROJECT				

*(117)RS-10,BP (118)RS-4,BP



PAVEMENT MARKING LEGEND

(A)	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SKIP DASH)
(B)	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID LT)
(C)	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID RT)
(D)	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (DUAL SOLID)
(E)	PAINT PAVEMENT MARKING, LINE - 5" WITE (SOLID)



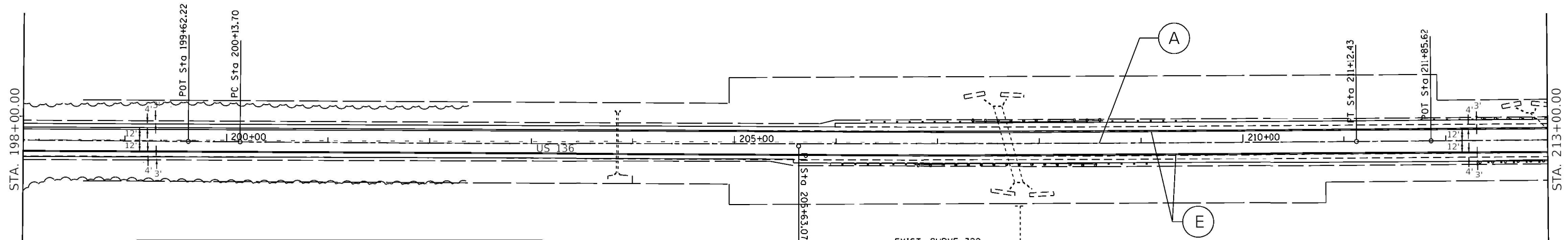
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN SHEETS

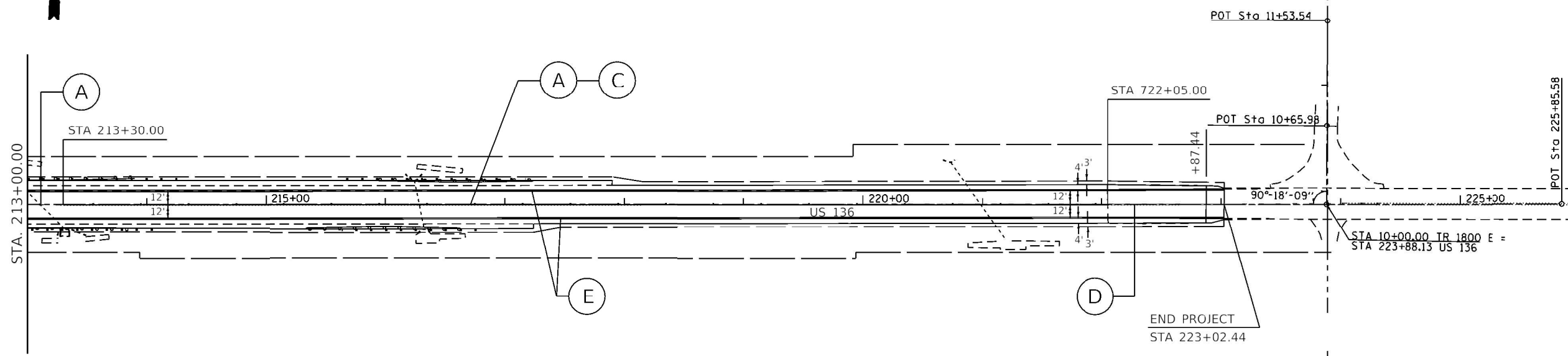
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	-	LOGAN	53	38
CONTRACT NO. 72K81				



PAVEMENT MARKING LEGEND	
(A)	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SKIP DASH)
(B)	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID LT)
(C)	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (SOLID RT)
(D)	PAINT PAVEMENT MARKING, LINE- 5" YELLOW (DUAL SOLID)
(E)	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)

EXIST. CURVE 322
 PI STA. = 205+63.07
 $\Delta = 0^\circ 56' 06''$ (LT)
 $D = 0^\circ 05' 06''$
 $R = 67,325.63'$
 $T = 549.38'$
 $L = 1,098.74'$
 $E = 2.24'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 P.C. STA. = 200+13.70
 P.T. STA. = 211+12.43



FILE NAME =	USER NAME = cancels	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/17/2021	DATE -	REVISED -

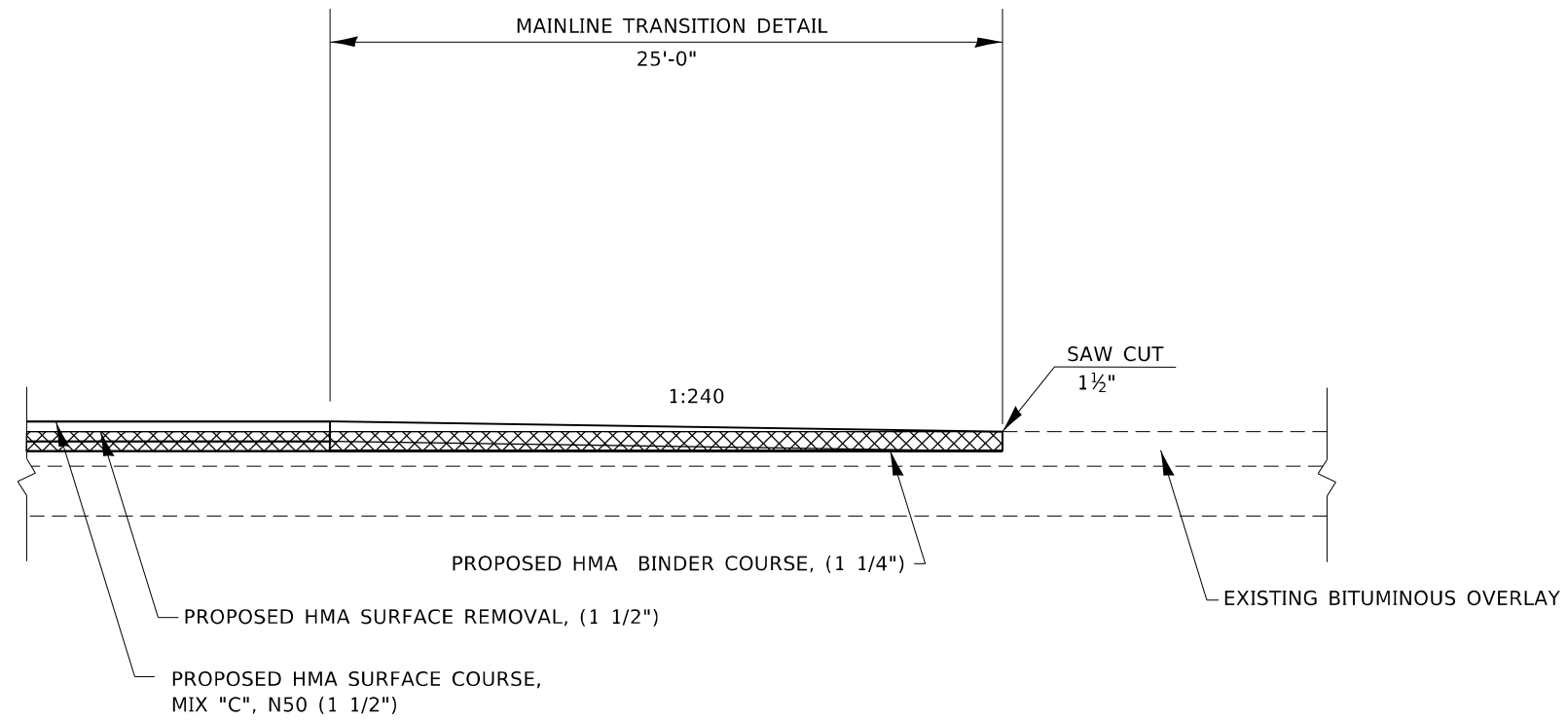
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN SHEETS

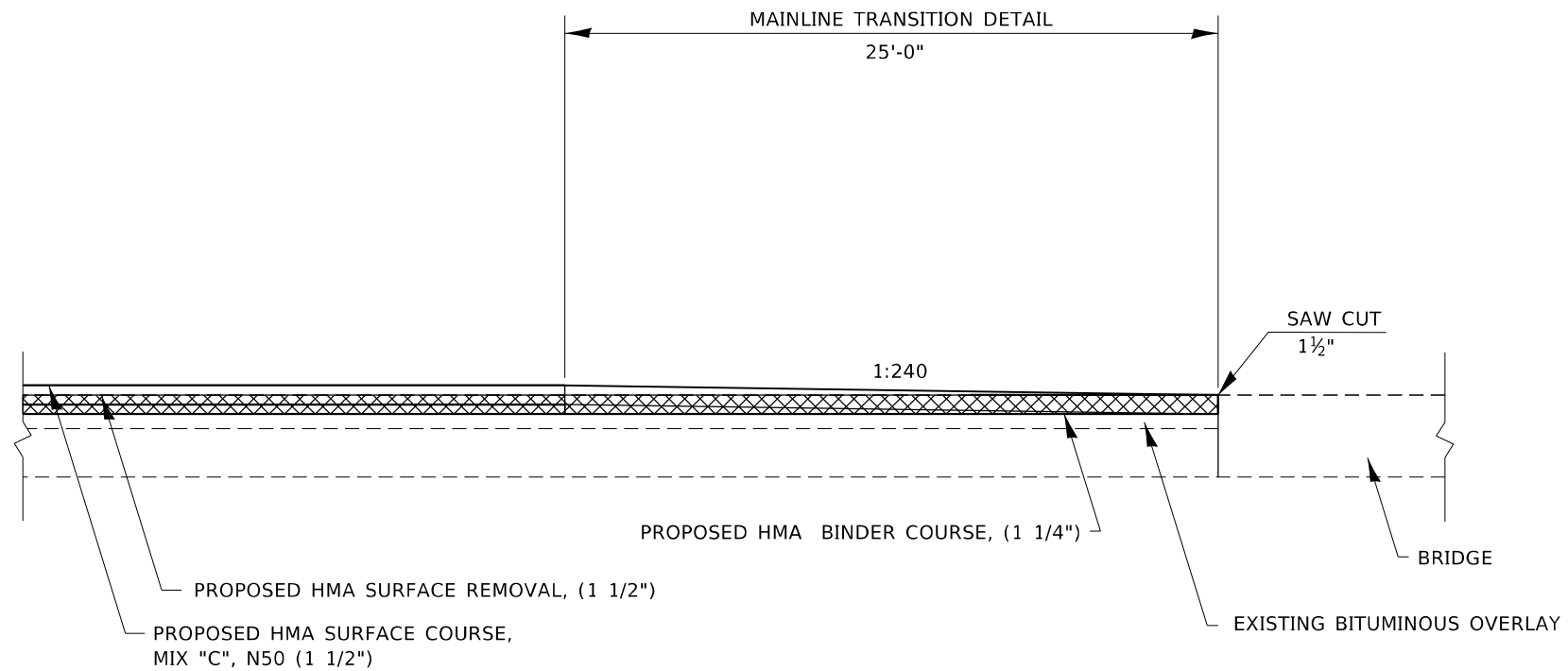
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	-	LOGAN	53	39
CONTRACT NO.			72K81	

*(117)RS-10,BP (118)RS-4,BP

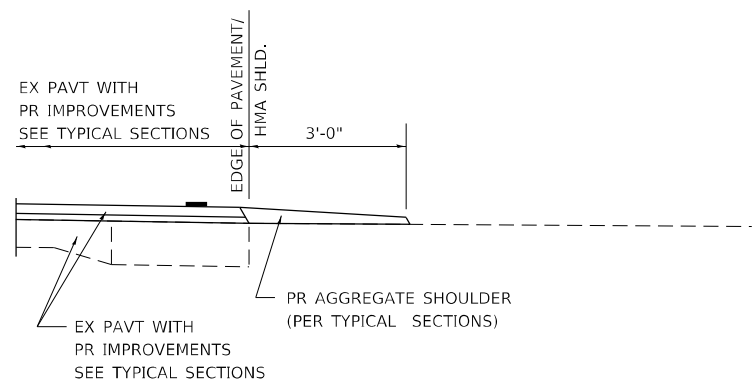


MAINLINE TRANSITION DETAIL

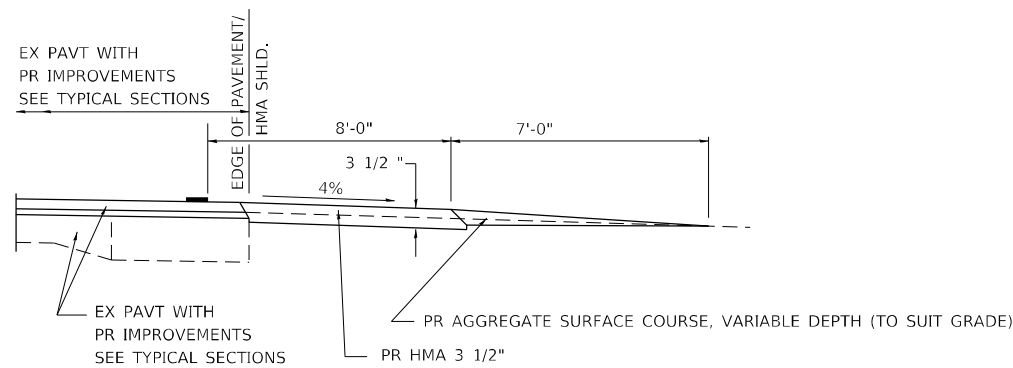


BRIDGE 054-0027/054-0026 MAINLINE TRANSITION DETAIL

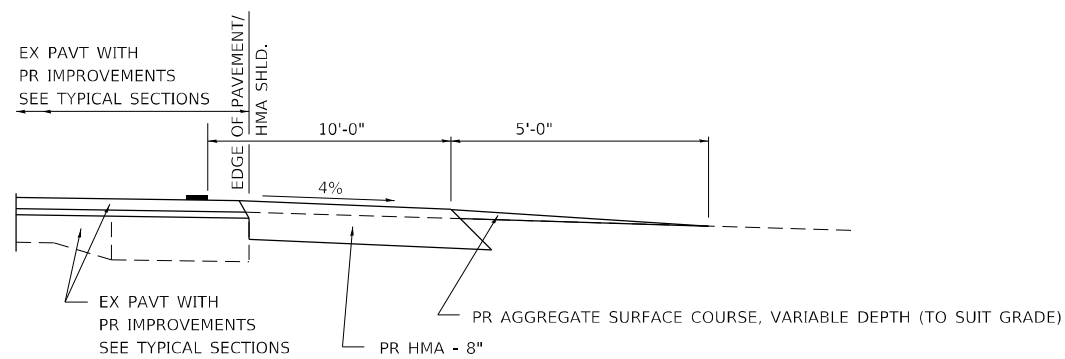
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Default	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/17/2021	DATE -	REVISED -		*(117)RS-10,BP (118)RS-4,BP								



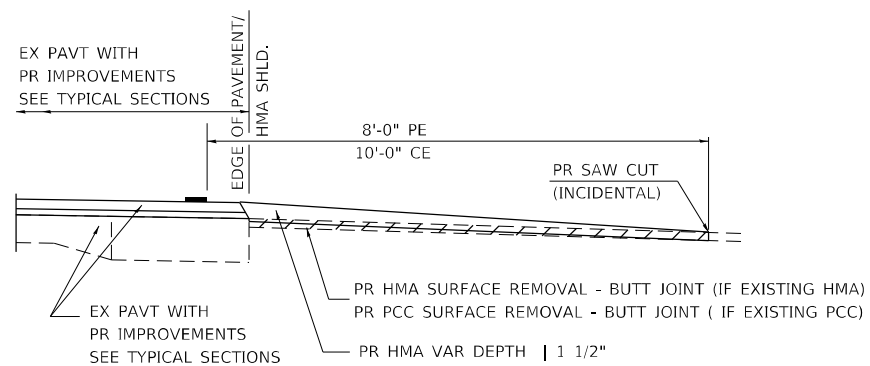
SECTION A-A FOR EX EARTH/AGGREGATE FE



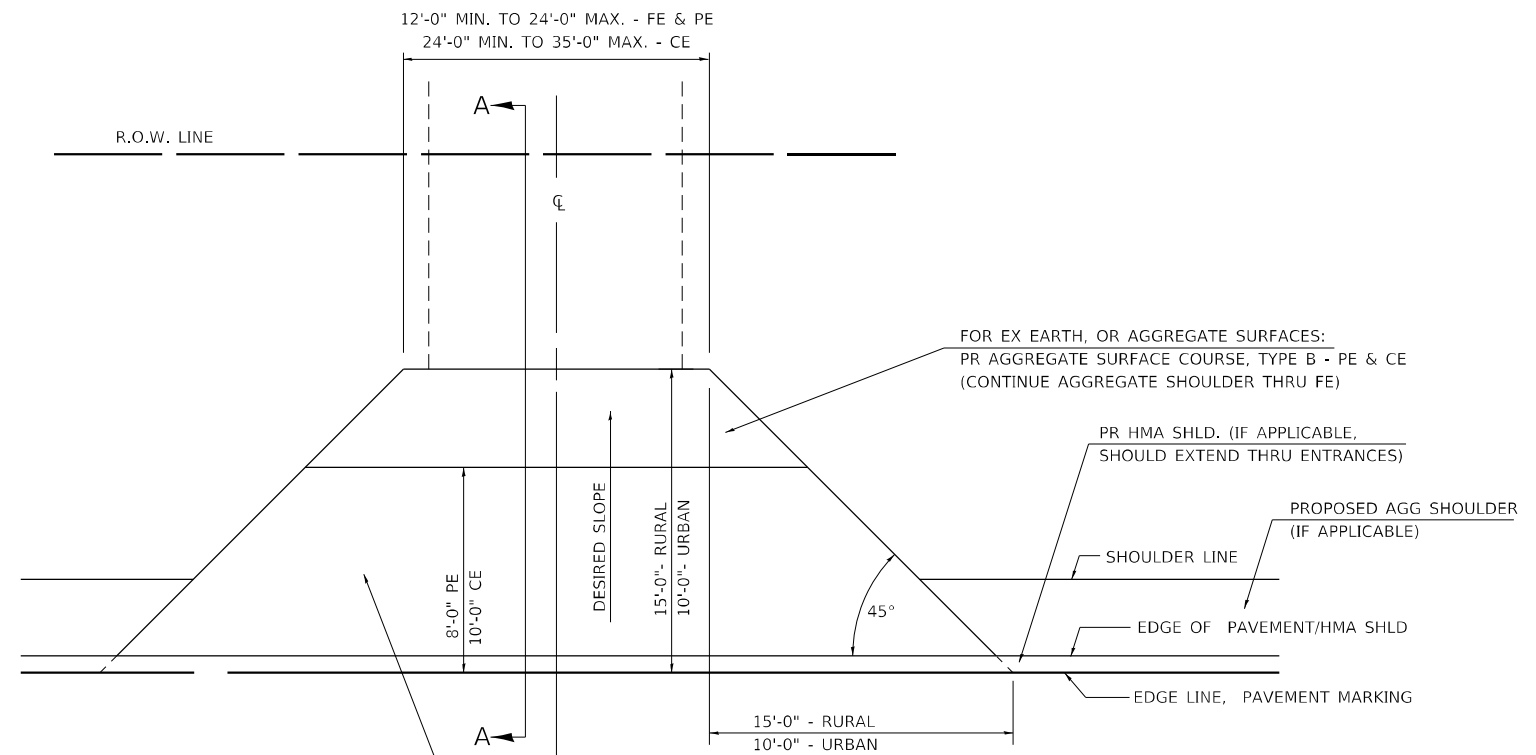
SECTION A-A FOR EX EARTH/AGGREGATE PE



SECTION A-A FOR EX EARTH/AGGREGATE CE & SIDE ROAD



SECTION A-A FOR EX HMA/PC CONCRETE PE, CE & SIDE ROAD



FOR EX EARTH OR AGGREGATE SURFACES:
 PR HMA SURFACE REMOVAL (IF APPLICABLE)
 PR AGGREGATE SHOULDER THRU - FE
 PR HMA CONCRETE 3 1/2" - PE
 PR HMA CONCRETE 8" - CE

FOR EX HMA CONCRETE SURFACES:
 PR HMA SURFACE REMOVAL-BUTT JOINT

FOR EX PCC SURFACES:
 PR PCC SURFACE REMOVAL-BUTT JOINT

FOR EX EARTH, OR AGGREGATE SURFACES:
 PR AGGREGATE SURFACE COURSE, TYPE B - PE & CE
 (CONTINUE AGGREGATE SHOULDER THRU FE)

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

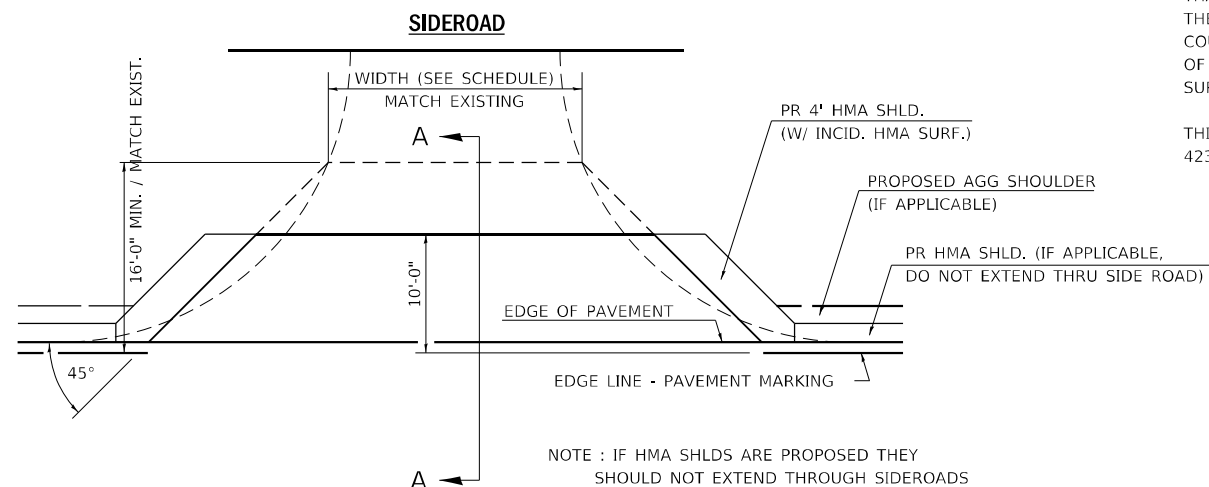
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

HMA CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HMA CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES SHALL MEET THE REQUIREMENTS OF HMA CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.



NOTE : IF HMA SHLDS ARE PROPOSED THEY SHOULD NOT EXTEND THROUGH SIDEROADS

FILE NAME =	USER NAME = canolds	DESIGNED -	REVISED - 2/19/03 JCN
pw:\illdot\pw\benley.com\PWIDOT\Documents\IDOT Office\District 6\Projects\D672K81\CADData\CADsheets\D672K81-ent\DRAWN - CADD		CHECKED - JCN	REVISED - 4/01/04 JCN
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	PLOT DATE = 8/17/2021		

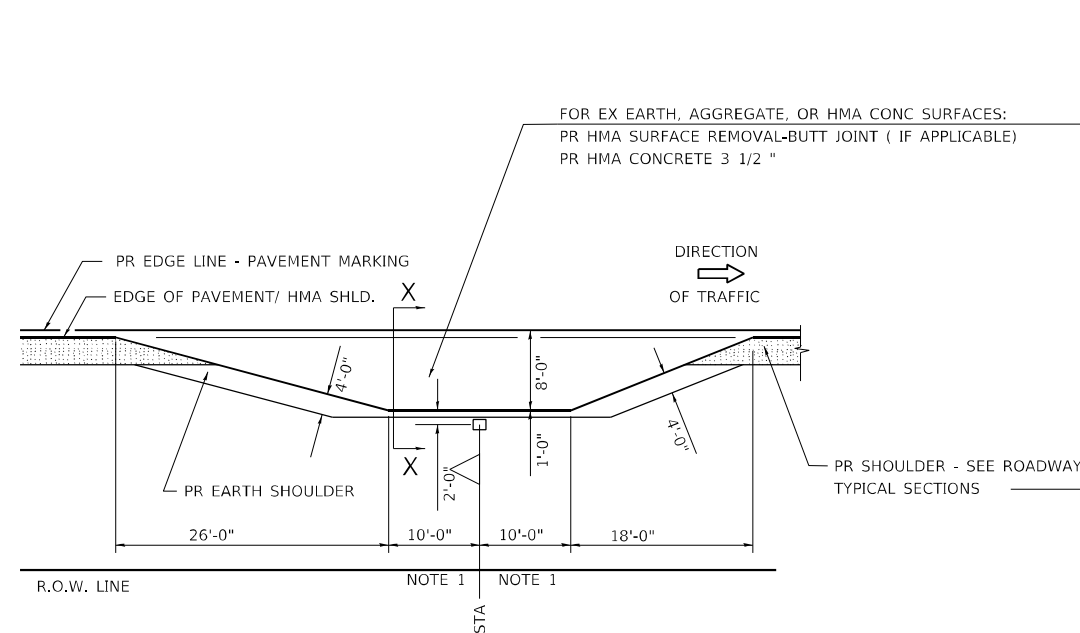
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX
TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)**

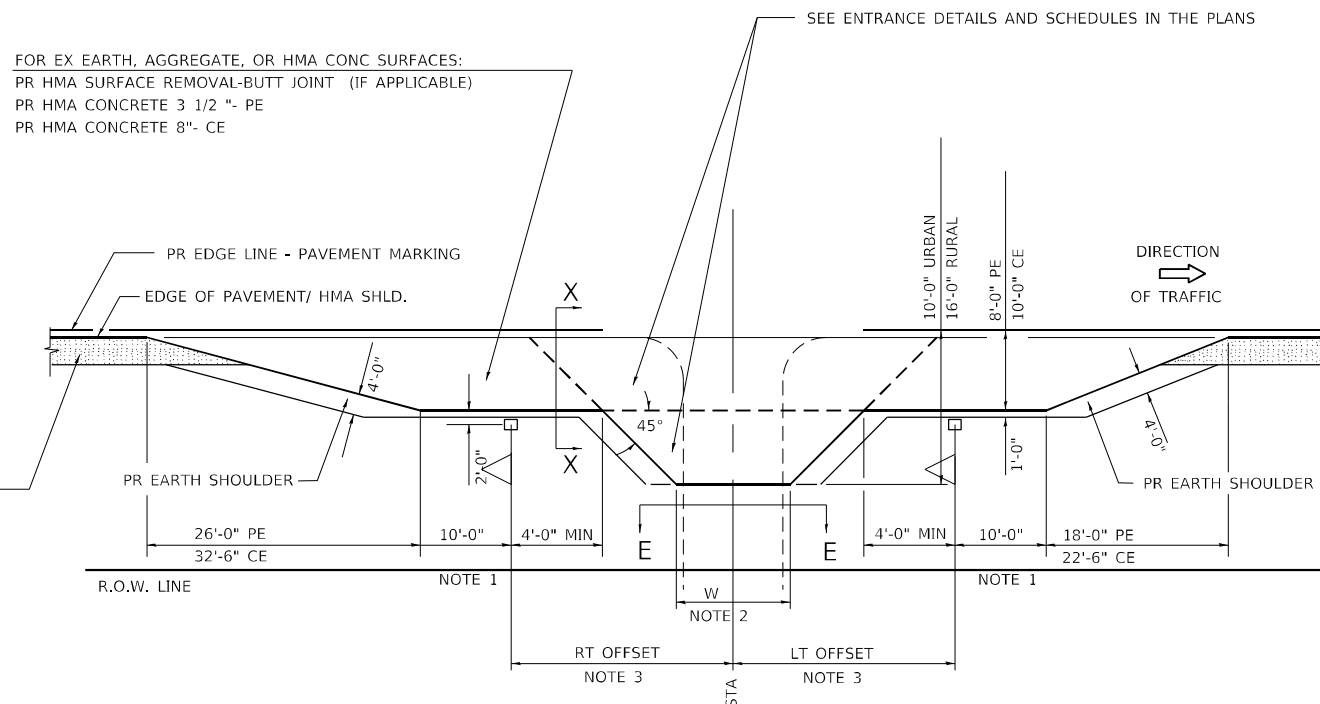
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	*	LOGAN	53	41
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

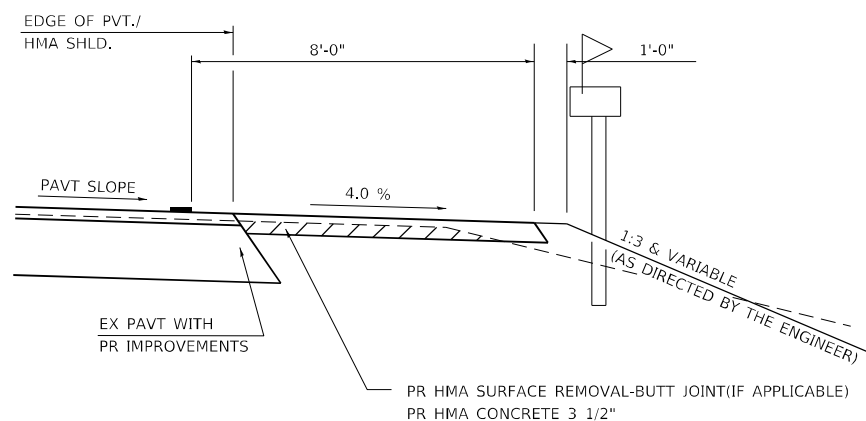
DETAILS OF MAILBOX TURNOUTS



PLAN - MAILBOX TURNOUTS

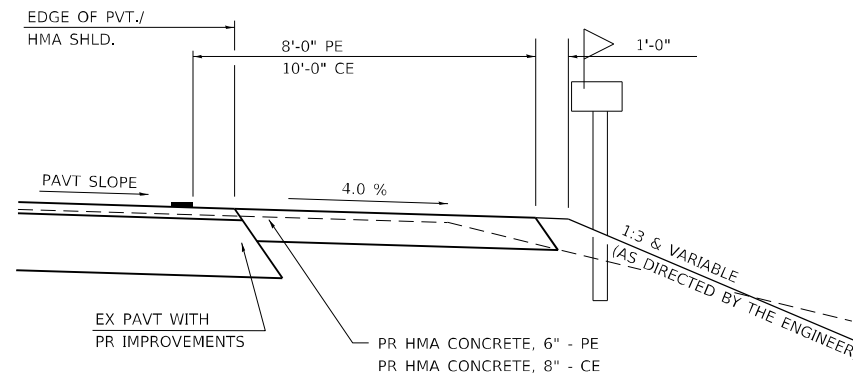


PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



**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.)



**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
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = canolds	DESIGNED -	REVISED - 2/19/03 JCN
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ENT PPP.DGN		CHECKED - JCN	REVISED -
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	PLOT DATE = 8/17/2021		

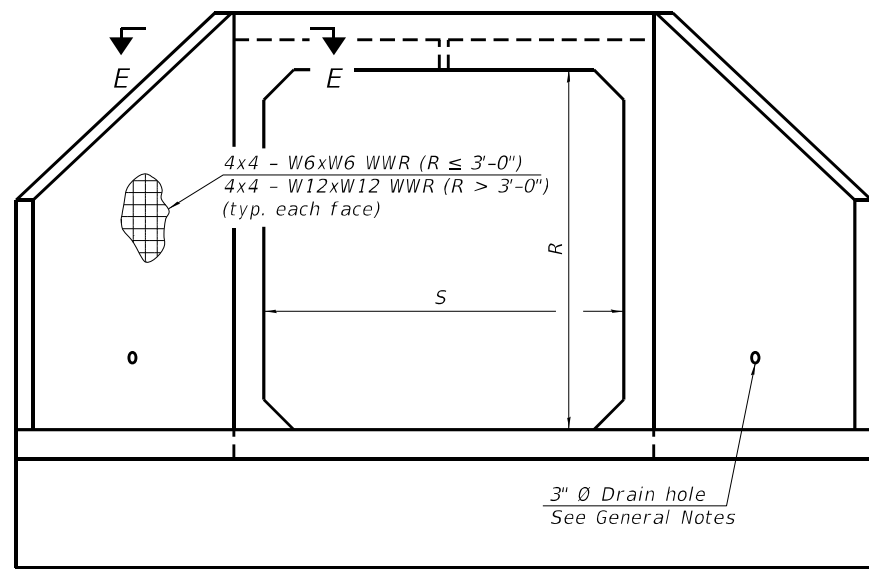
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX
TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)**

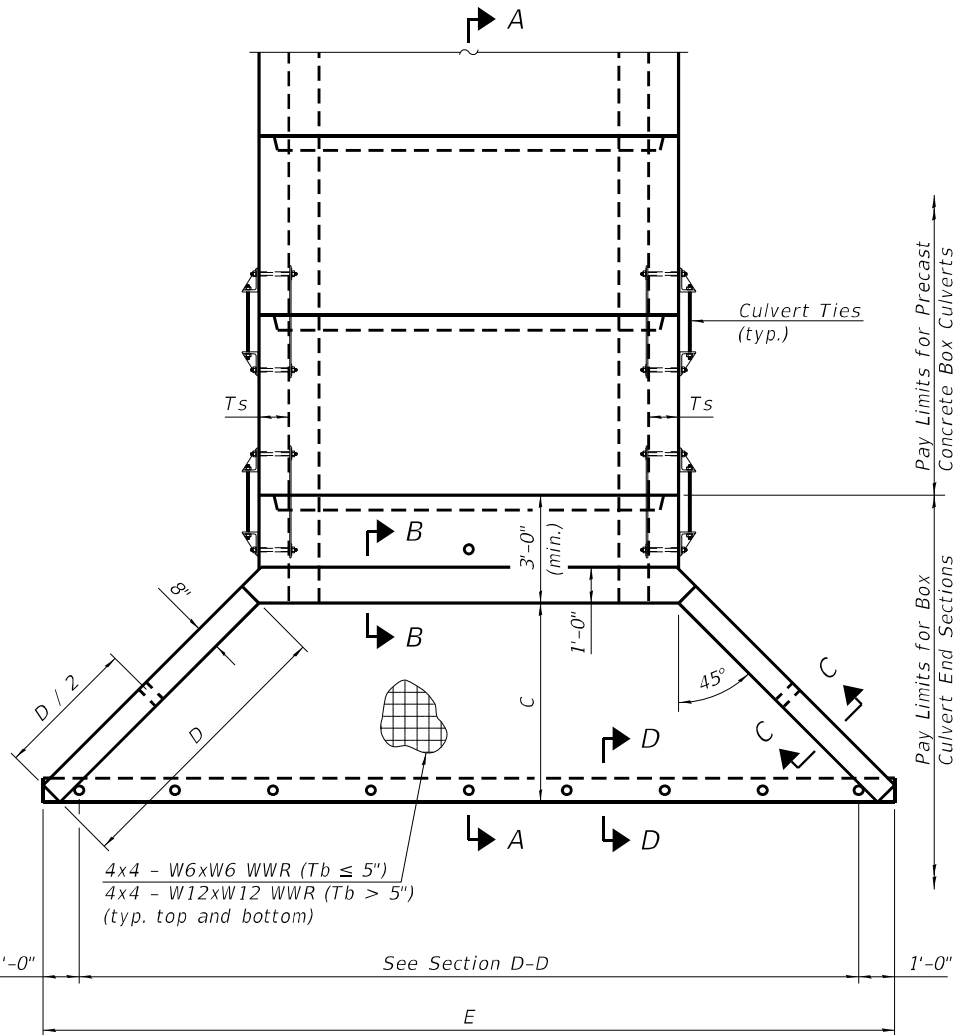
SCALE: SHEET OF SHEETS STA. TO STA.

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CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

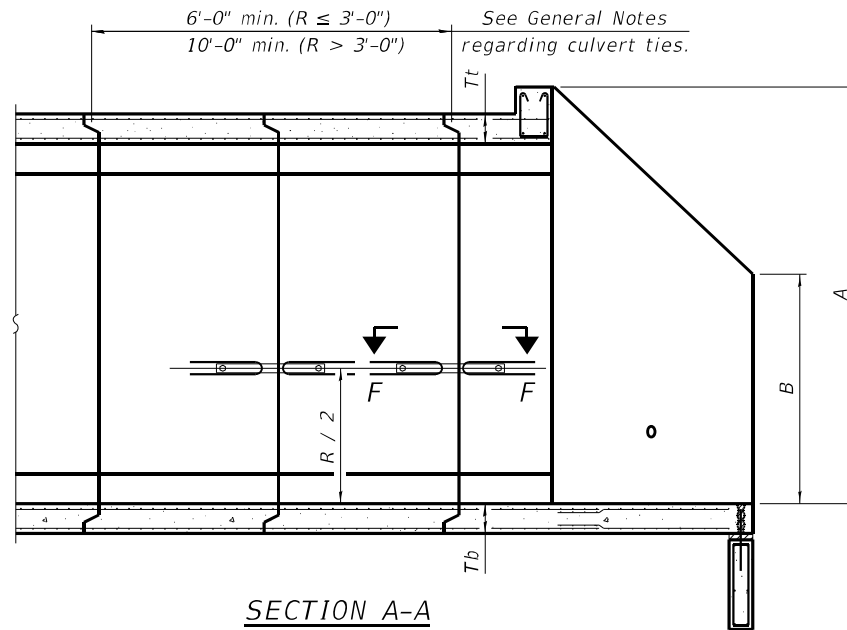
*(117)RS-10,BP (118)RS-4,BP



END VIEW



PLAN



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 5/8"	4'-1"	10'-4 5/8"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 1/4"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 3/8"	5'-6"	12'-4 3/8"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 1/8"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 1/2"	2'-2 1/2"	2'-11 3/8"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 1/2"	3'-10"	11'-2 3/8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 1/2"	2'-8 1/2"	3'-11 3/8"	5'-7"	13'-8 1/8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 1/2"	5'-3"	13'-2 3/8"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 1/2"	3'-2 1/2"	4'-11 3/8"	7'-0"	15'-8 1/8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 3/8"	6'-8"	15'-2 1/2"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 1/4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	14'-10 1/8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 1/4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	16'-10 1/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 1/4"	6'-9"	16'-5 7/8"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	18'-10 1/8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 1/4"	8'-2"	18'-5 7/8"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 3/8"	4'-1"	13'-10 3/8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	16'-0 1/8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 5/8"	5'-6"	15'-10 5/8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	18'-0 1/8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 3/8"	6'-11"	17'-10 3/8"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	20'-0 1/8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 3/4"	8'-4"	19'-10 3/4"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 3/4"	9'-9"	21'-10 3/4"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	17'-2 1/2"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	19'-2 1/2"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	21'-2 1/2"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	23'-2 1/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	18'-2 1/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	20'-2 1/8"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	22'-2 1/8"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	24'-2 1/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	17'-6 7/8"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	19'-6 7/8"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	21'-6 7/8"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 7/8"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 1/8"	9'-11"	25'-5 5/8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	18'-10 1/4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	20'-10 1/4"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	22'-10 3/8"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	24'-10 3/8"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	26'-10 3/8"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 3/8"	4'-7"	20'-3 3/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 3/8"	6'-0"	22'-3 3/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 3/4"	7'-4"	24'-1 3/4"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	26'-1 3/4"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	28'-1 1/8"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	21'-6 1/2"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	23'-6 1/2"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 3/8"	7'-6"	25'-6 5/8"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	27'-6 5/8"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	29'-6 5/8"	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft. (Sheet 1 of 2)

SCB-AES

2-17-2017

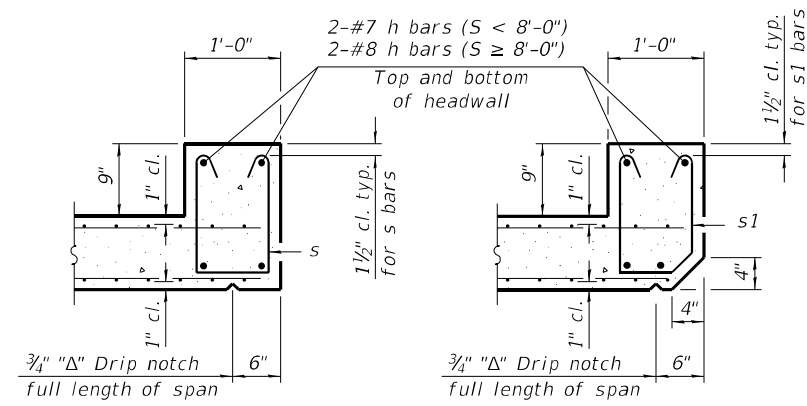
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DRAWN -	REVISED -	REVISED -
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PLOT DATE = 8/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO.

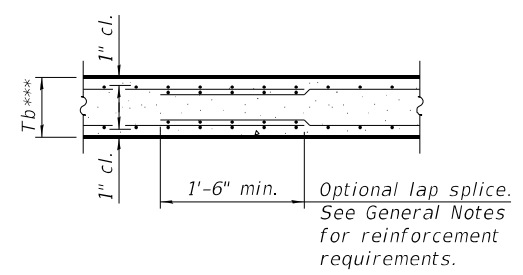
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							315	*	LOGAN	53	43
										CONTRACT NO. 72K81	
										ILLINOIS FED. AID PROJECT	

(117)RS-10, BP (118)RS-4, BP



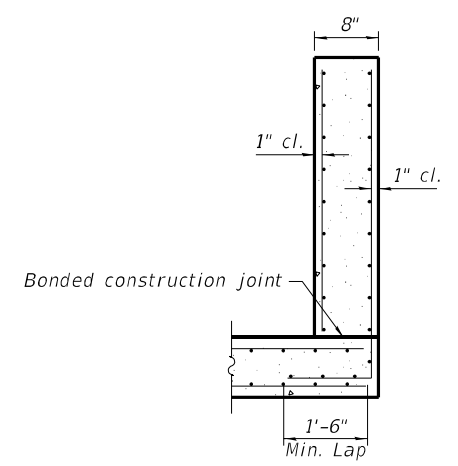
SECTION B-B
(Top slab at downstream end)

SECTION B-B
(Top slab at upstream end)

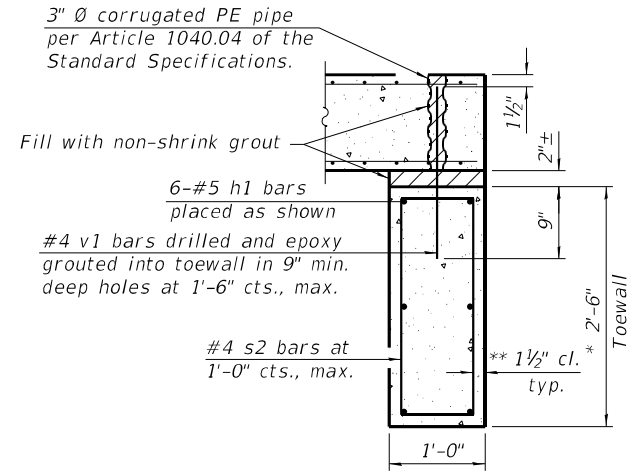


SECTION B-B
(Bottom Slab)

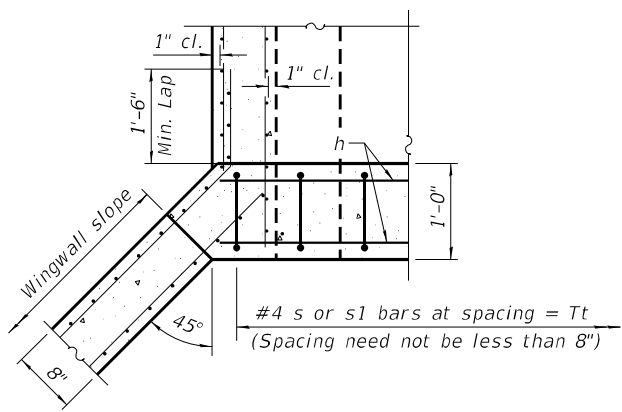
*** This dimension shall be increased by 2" for CIP construction.



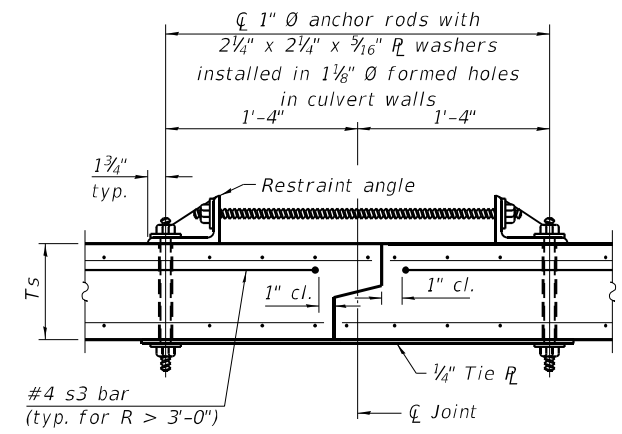
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F
(Showing culvert tie details)

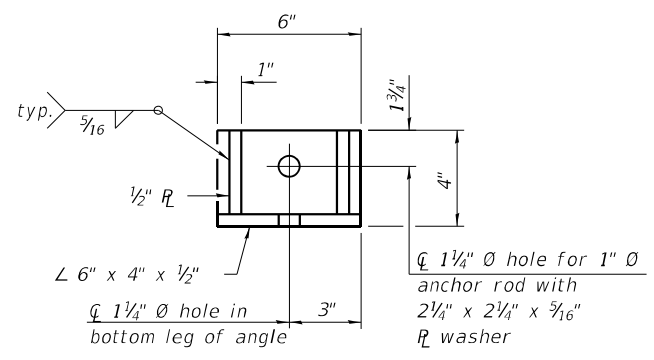
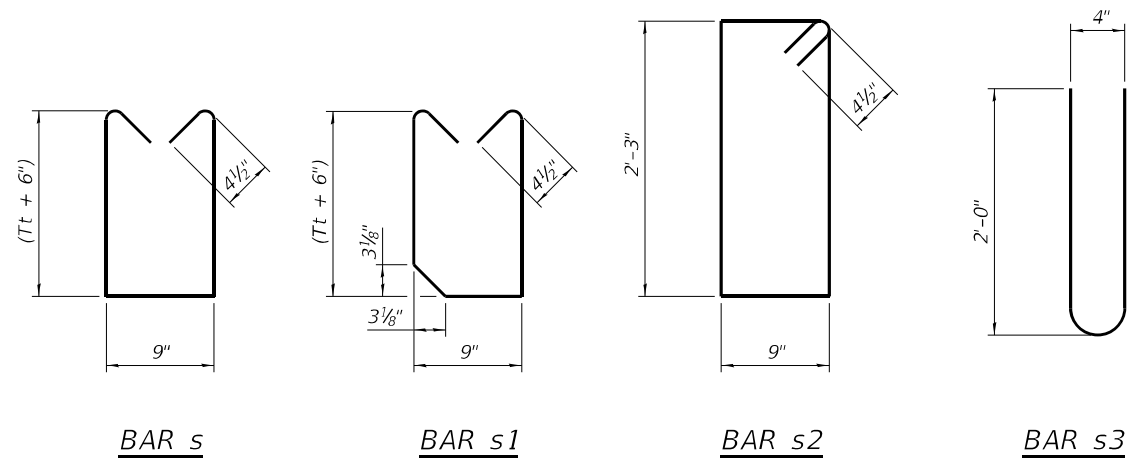
TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

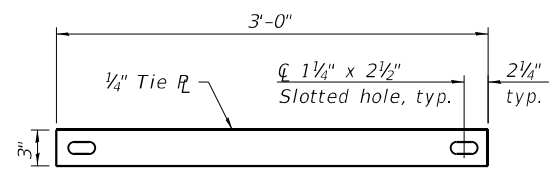
* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

Notes:
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 3/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

SCB-AES

2-17-2017

(Sheet 2 of 2)

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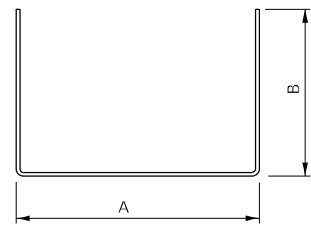
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO.**

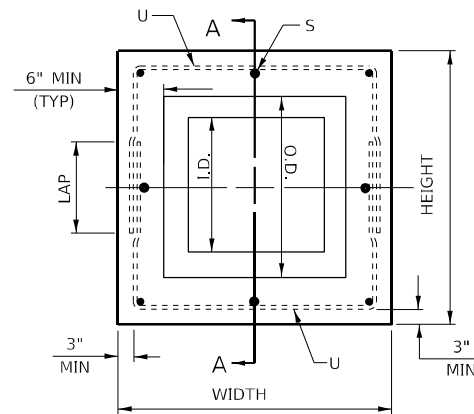
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	*	LOGAN	53	44
CONTRACT NO. 72K81				

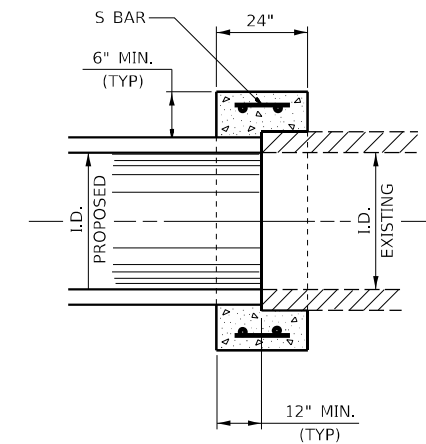
(117)RS-10, BP (118)RS-4, BP



#5 U - BAR



PIPE CULVERT EXTENSION COLLAR



SECTION TYPE C
(PIPE END TO PIPE END EXTENSION
NO EXPANSION BOLTS REQUIRED)

SECTION A - A

50800105 54248510

STATION	SECTION TYPE	SKEW	EXISTING CULVERT SIZE	PROPOSED CULVERT		COLLAR		REINFORCEMENT BARS								EXPANSION BOLTS 3/4" EACH	CLASS 51 CONCRETE COLLAR YD ³		
				I.D.	O.D.	HEIGHT	WIDTH	S BAR				U BAR						LB	
								NO.	SIZE	LENGTH	NO.	SIZE	A (in)	B (in)	LAP				LENGTH
687+41.30	C	0.00	3'x3' BOX	36	50	62	62	8	5	18	4	5	56	37	1-6"	130	58	0	.69
TOTAL																	58	.69	

NOTE: CONCRETE COLLAR FOR THE 3'X3' BOX CULVERT WAS CALCULATED ASSUMING 7" CULVERT WALLS. THE ACTUAL DIMENSIONS CAN BE ADJUSTED IN THE FIELD DEPENDING ON THE WALLS OF THE PROPOSED PRECAST UNITS AND EXISTING CAST-IN-PLACE UNITS.

MODEL: Default
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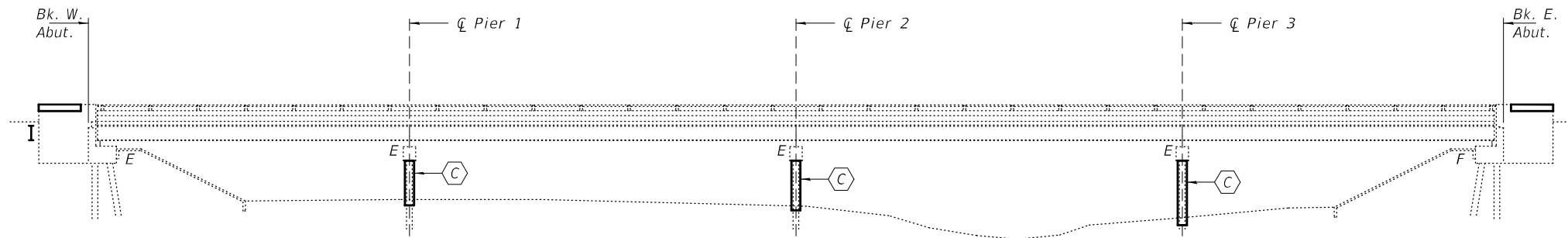
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PLOT DATE = 8/17/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

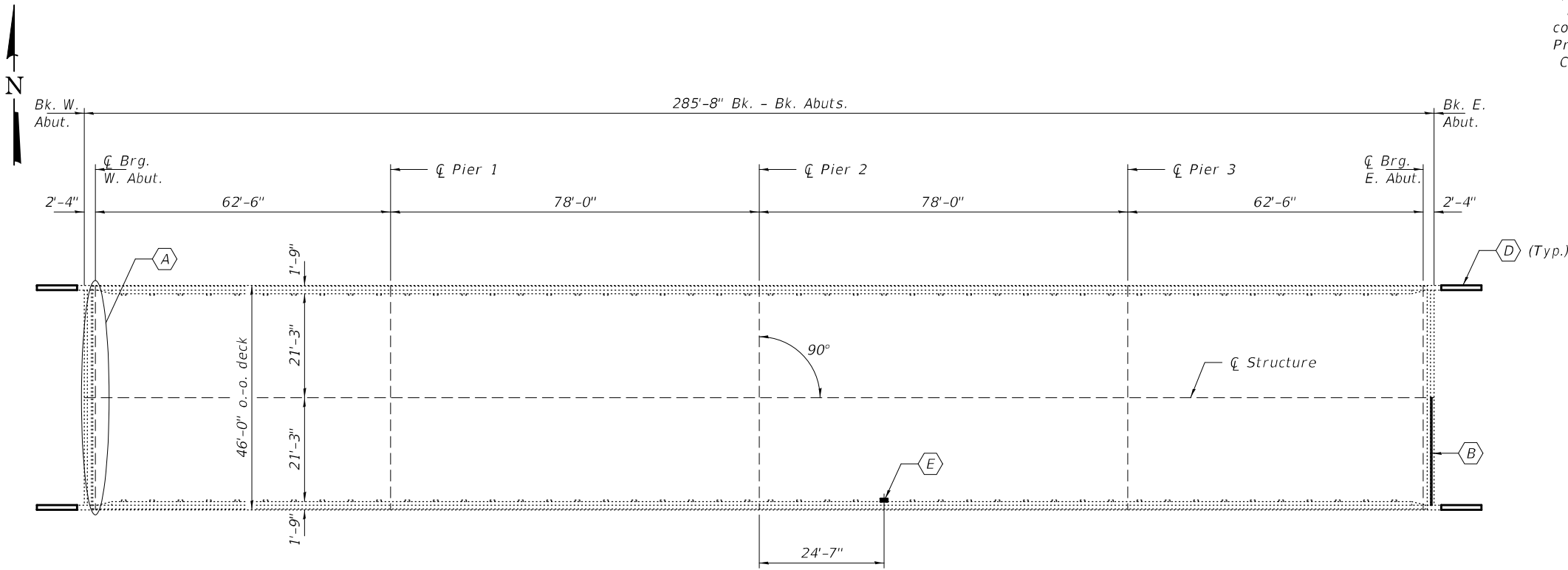
CONCRETE COLLAR AND CULVERT EXTENSION DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	*	LOGAN	53	45
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

*(117)RS-10,BP (118)RS-4,BP



ELEVATION



PLAN

- (A) - Bearing removal & replacement.
- (B) - Removal of polymer nosing and replace with HMA.
- (C) - Substructure repairs.
- (D) - Wingwall modifications.
- (E) - Drain removal & replacement.

GENERAL NOTES

Plan dimensions and details relative to existing plans 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 shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

New bearing plates, steel extensions, shim plates, side retainers, anchor bolts, connection bolts, nuts and washers shall be hot dip galvanized according to Special Provision "Hot Dip Galvanizing for Structural Steel".

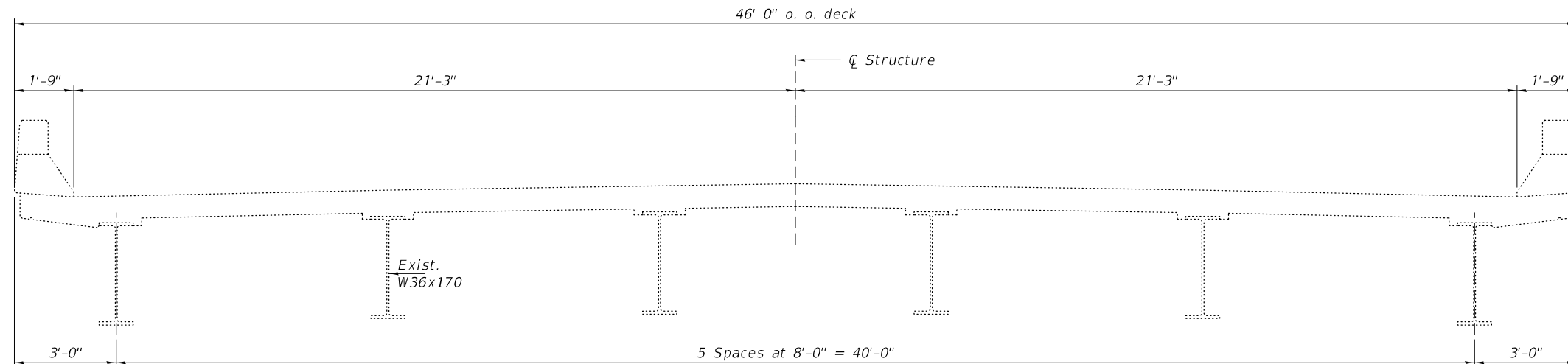
Concrete Sealer shall be applied to all new concrete surfaces.

TOTAL BILL OF MATERIAL

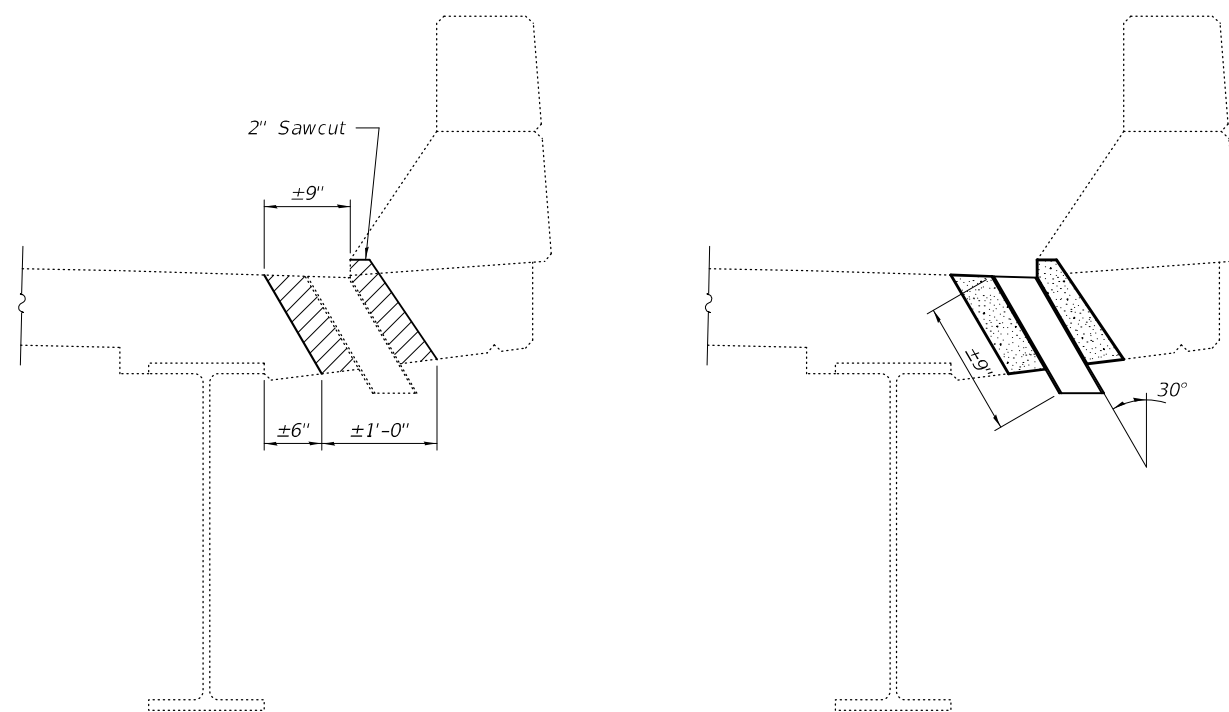
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	0.2
Concrete Structures	Cu. Yd.	5.0
Reinforcement Bars, Epoxy Coated	Pound	970
Concrete Sealer	Sq. Ft.	483.2
Elastomeric Bearing Assembly, Type II	Each	6
Jack and Remove Existing Bearings	Each	6
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	5
Furnishing and Erecting Structural Steel	Pound	926
Anchor Bolts, 1"Ø	Each	12
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.1
Floor Drains	Each	1



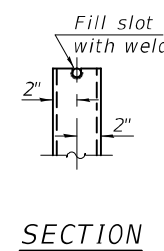
EXPIRES 11-30-2022



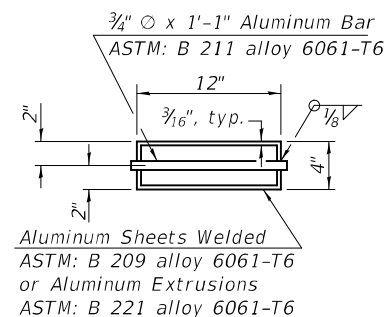
TYPICAL CROSS SECTION



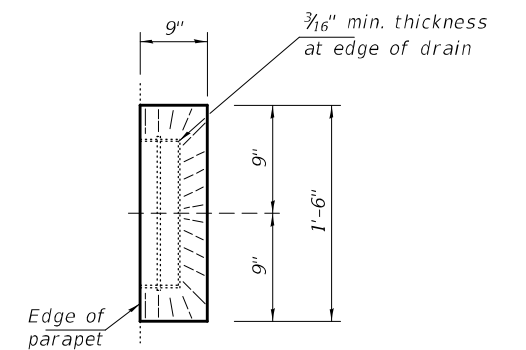
DRAIN REMOVAL & REPLACEMENT DETAILS
(1 Location)



SECTION



TOP PLAN



DRAIN DETAIL
* slope to drain

Notes:
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drain shall be cleaned and given a washcoat pretreatment in accordance with Society of Protective Coatings Spec. SSPC-SP1 & SSPC Paint 27 prior to painting.

BILL OF MATERIAL

Item	Unit	Total
Floor Drains	Each	1
Deck Slab Repair (Full Depth, Type 1)	Sq. Yd.	0.1

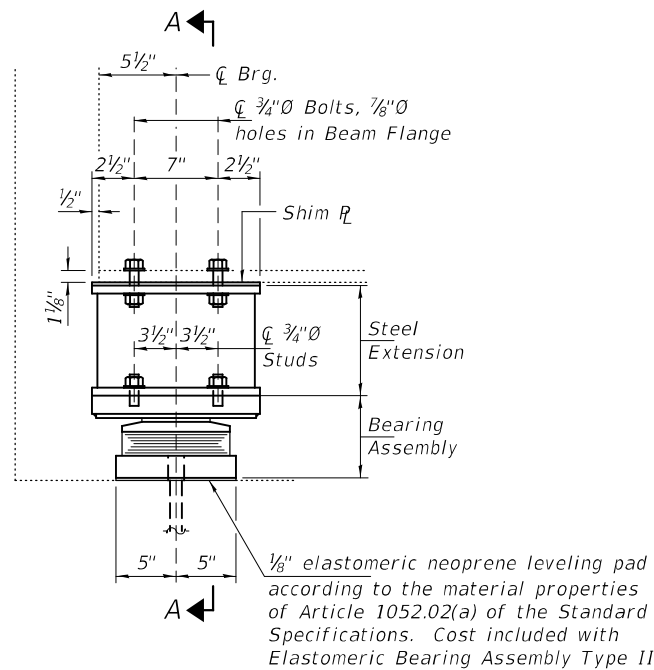
DESIGNED - VHV	EXAMINED - <i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - SEPTEMBER 30, 2021
CHECKED - CCC	PASSED - <i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - VHV CCC		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS & DRAIN DETAILS
SN 054-0026

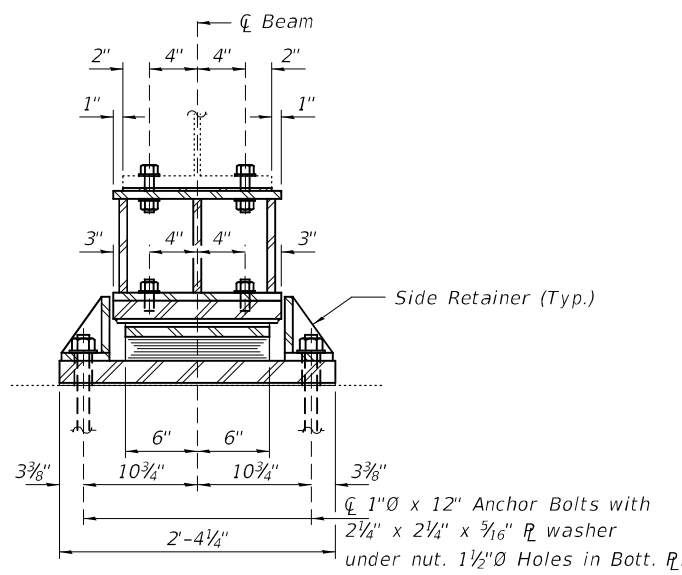
SHEET NO. 2 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				



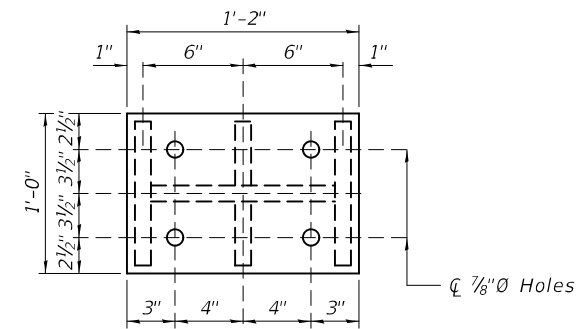
ELEVATION AT ABUTMENT

TYPE II TFE ELASTOMERIC EXP. BRG.

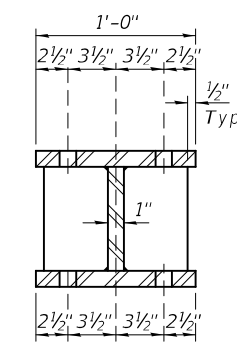


SECTION A-A

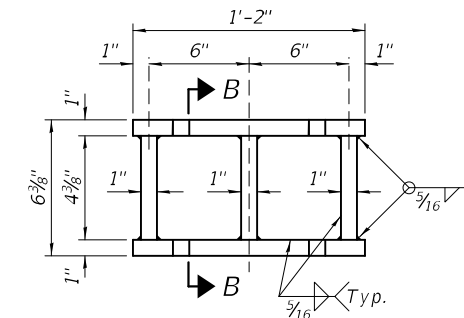
Notes:
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
 Min. jack capacity = 44 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.
 The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
 Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
 New bearing plates, steel extensions, shim plates, side retainers, anchor bolts, connection bolts, nuts and washers shall be hot dip galvanized according to Special Provision "Hot Dip Galvanizing for Structural Steel".



PLAN TOP AND BOTTOM PLATE



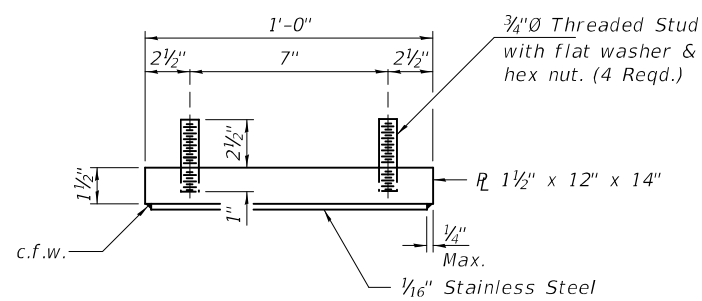
SECTION B-B



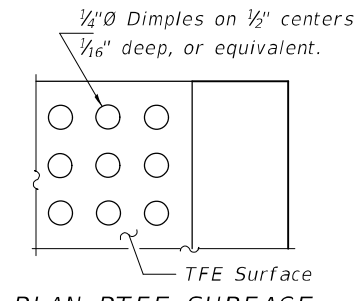
STEEL EXTENSION DETAIL

BEAM REACTIONS

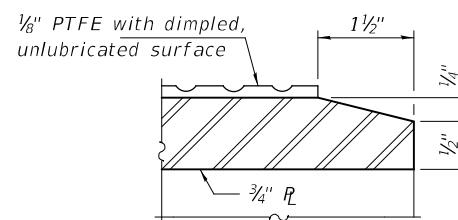
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R _L	(K)	42.70
Imp.	(K)	11.39
R (Total)	(K)	84.45



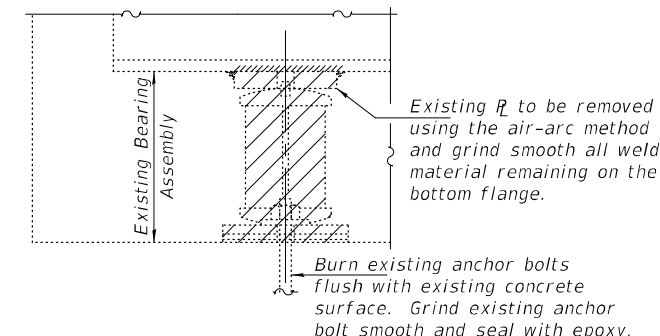
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

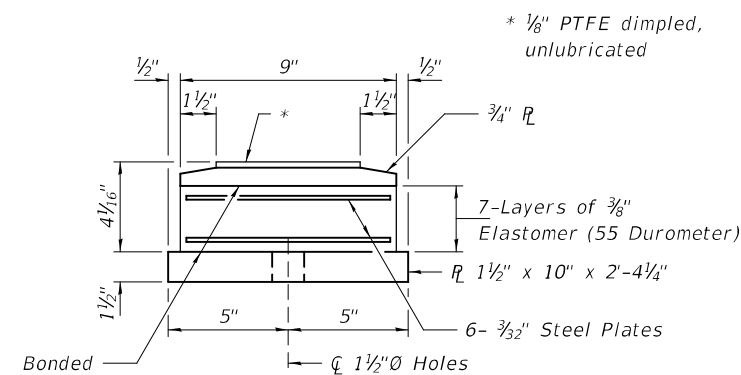


SECTION THRU PTFE



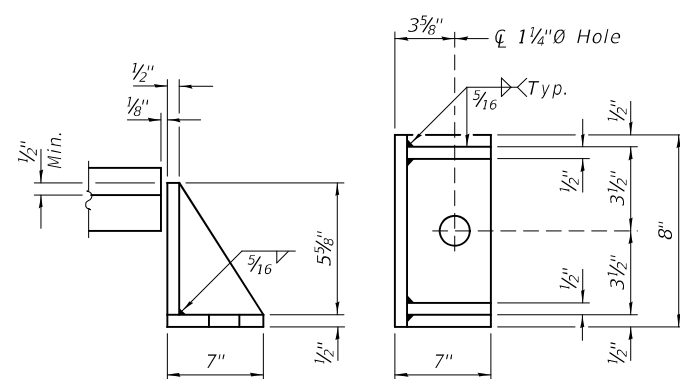
EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



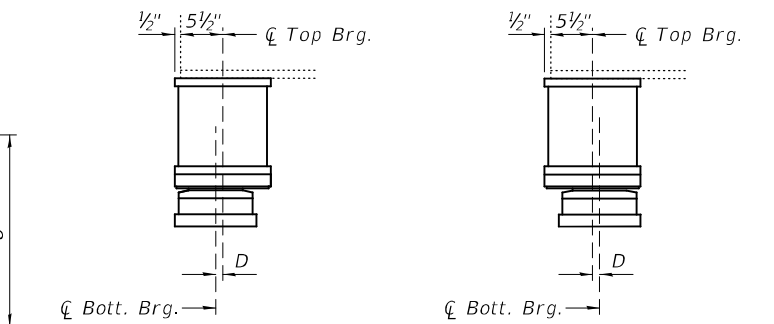
BOTTOM BEARING ASSEMBLY

* 1/8" PTFE dimpled, unlubricated



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BELOW 50° F. ABOVE 50° F.
 (Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	6
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	926
Anchor Bolts 1" Ø	Each	12

TYII/REPS 08-08-2018

DESIGNED - VHV	CHECKED - CCC
DRAWN - daburdell	CHECKED - VHV CCC

EXAMINED	DATE - SEPTEMBER 30, 2021
PASSED	REVISI -
	REVISI -

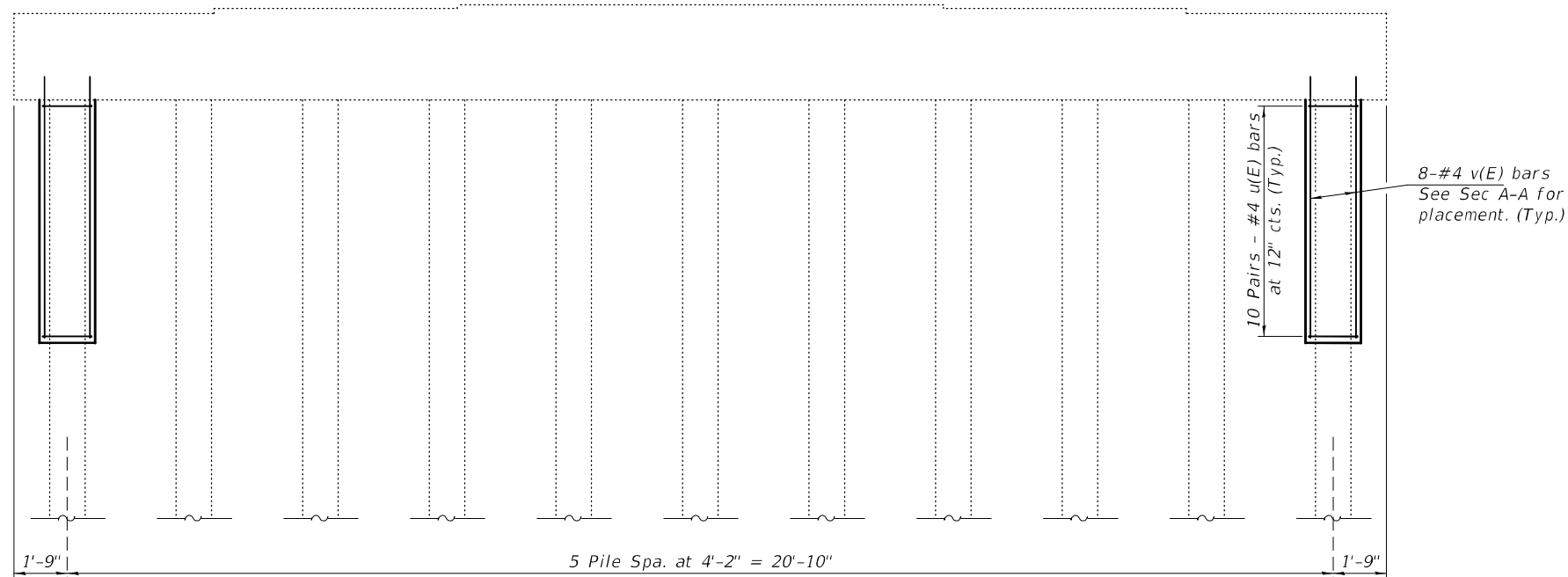
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

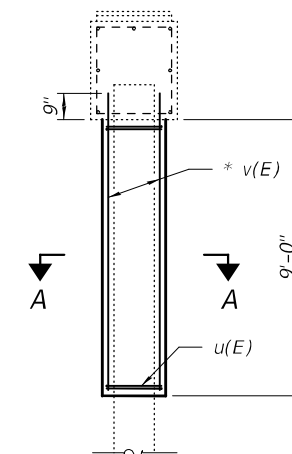
BEARING REPLACEMENT - WEST ABUTMENT
 SN 054-0026

SHEET NO. 3 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	48
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

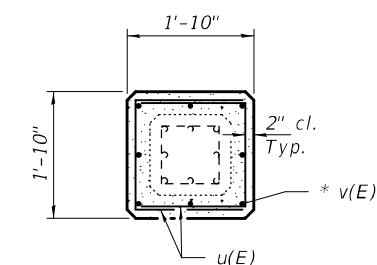


ELEVATION
(Looking East)

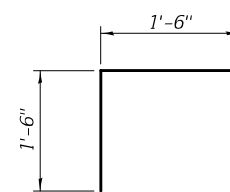


SECTION THRU ENCASEMENT REPAIR

* Epoxy grout v(E) bars in 9" min.
holes according to Article 584 of
the Standard Specifications.



SECTION A-A



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
u(E)	40	#4	4'-6"	□
v(E)	16	#4	9'-7"	□
Concrete Structures			Cu. Yd.	2.3
Reinforcement Bars, Epoxy Coated			Pound	230

DESIGNED - VHV
CHECKED - CCC
DRAWN - daburdell
CHECKED - VHV CCC

EXAMINED
PASSED

Timothy A. Daulton
ENGINEER OF STRUCTURAL SERVICES

Carl R. Meyer
ENGINEER OF BRIDGES AND STRUCTURES

DATE - SEPTEMBER 30, 2021

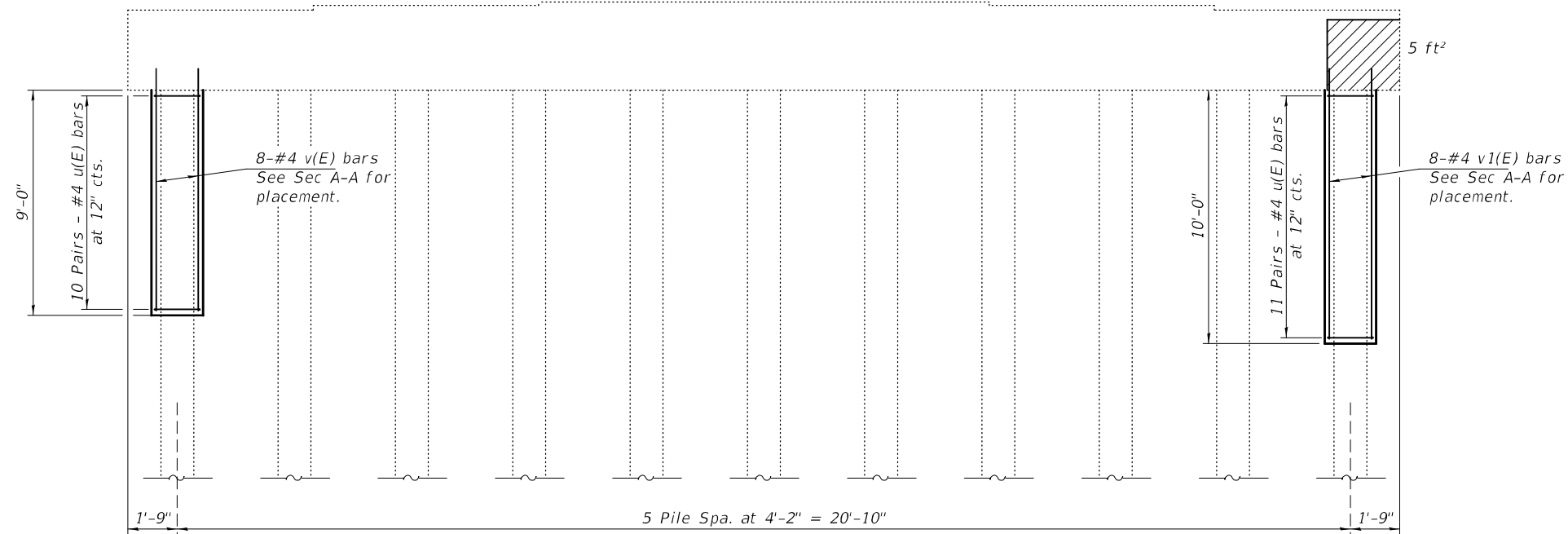
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

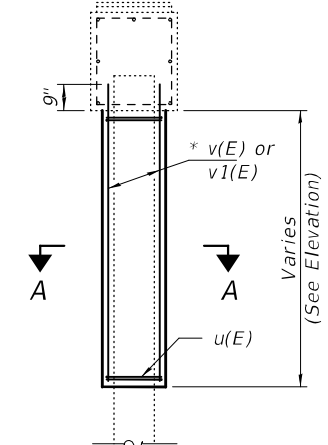
SUBSTRUCTURE REPAIR - PIER 1
SN 054-0026

SHEET NO. 4 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	49
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

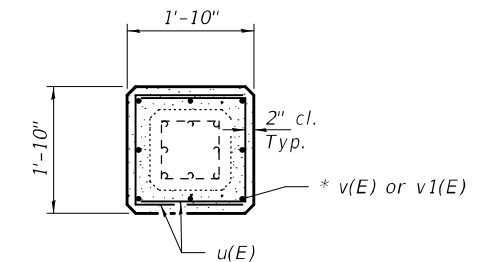


ELEVATION
(Looking East)

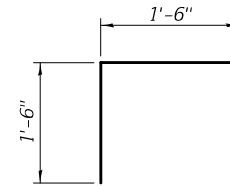


SECTION THRU ENCASEMENT REPAIR

* Epoxy grout v(E) & v1(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



SECTION A-A



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
u(E)	42	#4	4'-6"	□	
v(E)	8	#4	9'-7"	□	
v1(E)	8	#4	10'-7"	□	
Concrete Structures				Cu. Yd.	2.4
Reinforcement Bars, Epoxy Coated				Pound	230
Structural Repair of Concrete ≤ 5"				Sq. Ft.	5

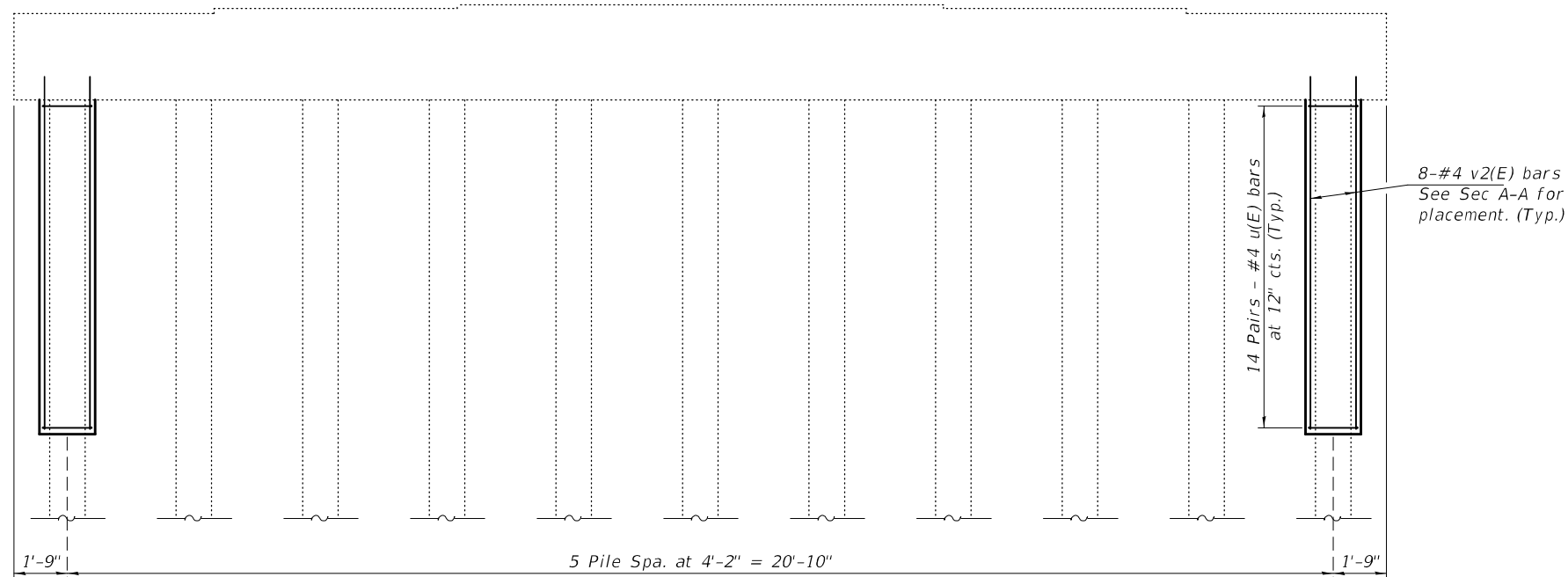
DESIGNED - VHV	EXAMINED - <i>Timothy A. Daburdell</i>	DATE - SEPTEMBER 30, 2021
CHECKED - CCC	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - <i>daburdell</i>	PASSED - <i>Carl Ruyter</i>	REVISED -
CHECKED - VHV CCC	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

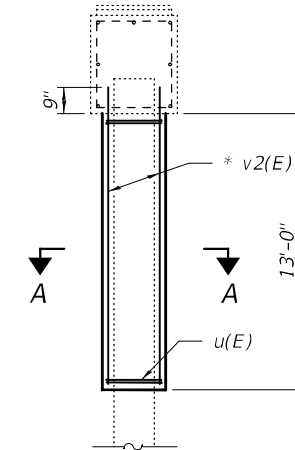
SUBSTRUCTURE REPAIR - PIER 2
SN 054-0026

SHEET NO. 4 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

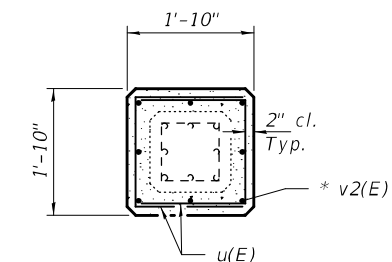


ELEVATION
(Looking East)

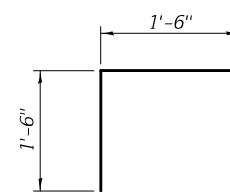


SECTION THRU ENCASEMENT REPAIR

* Epoxy grout v2(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



SECTION A-A



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
u(E)	56	#4	4'-6"	—
v2(E)	16	#4	13'-7"	—
Concrete Structures			Cu. Yd.	3.2
Reinforcement Bars, Epoxy Coated			Pound	310

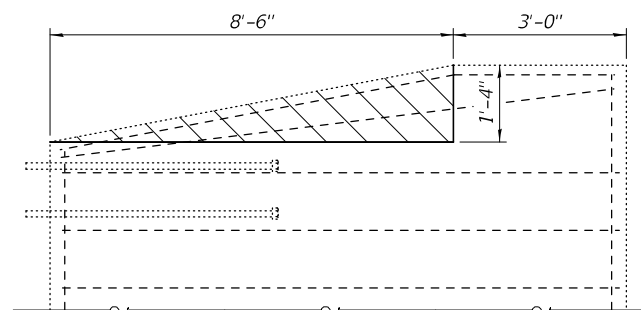
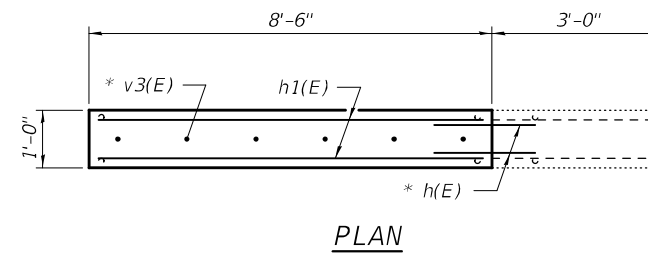
DESIGNED - VHV	EXAMINED	DATE - SEPTEMBER 30, 2021
CHECKED - CCC	<i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISED -
CHECKED - VHV CCC	<i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

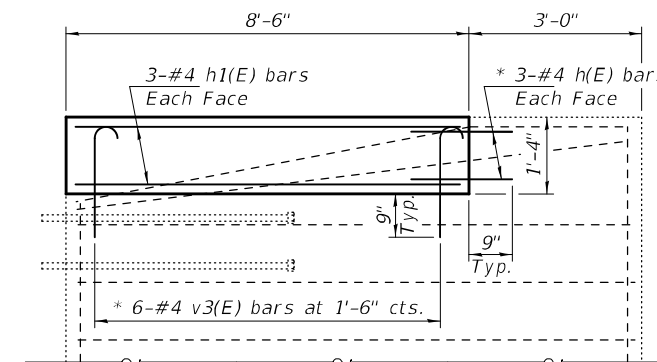
SUBSTRUCTURE REPAIR - PIER 3
SN 054-0026

SHEET NO. 6 OF 7 SHEETS

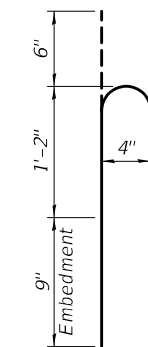
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	51
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				



Hatched area indicates Concrete Removal.



* Epoxy grout h(E) & v3(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Plan dimensions and details relative to existing plans 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.
 Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

BILL OF MATERIAL - 4 LOCATIONS

Bar	No.	Size	Length	Shape
h(E)	24	#4	1'-9"	—
h1(E)	24	#4	8'-2"	—
v3(E)	24	#4	2'-5"	└
Concrete Removal			Cu. Yd.	0.2
Concrete Structures			Cu. Yd.	0.4
Reinforcement Bars, Epoxy Coated			Pound	200

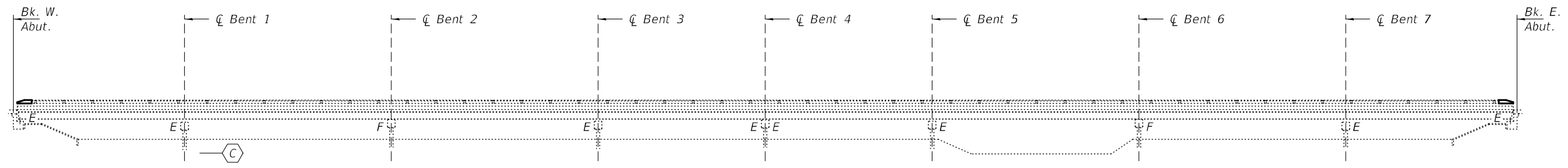
DESIGNED - VHV	EXAMINED	DATE - SEPTEMBER 30, 2021
CHECKED - CCC	<i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISED -
CHECKED - VHV CCC	<i>Carl R. Ruyter</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

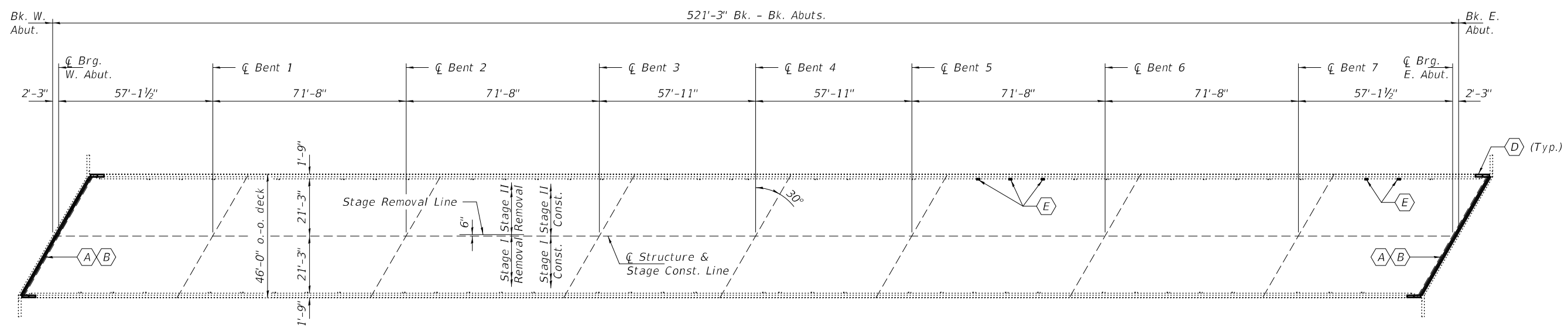
WINGWALL MODIFICATION
SN 054-0026

SHEET NO. 7 OF 7 SHEETS

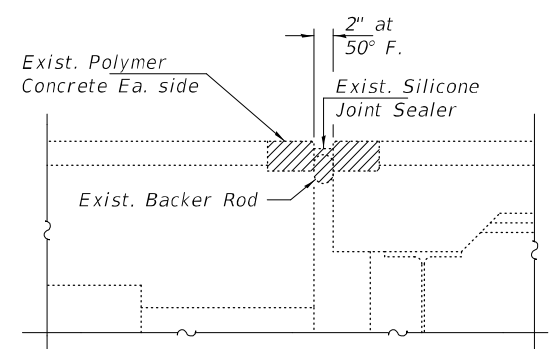
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	51A
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				



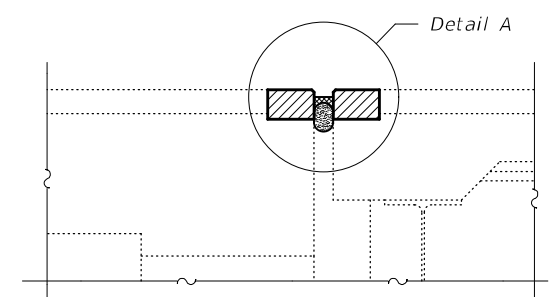
ELEVATION



PLAN



REMOVAL DETAILS
Hatched area indicates removal.



REPLACEMENT DETAILS

- (A) - Remove & replace Polymer Concrete.
- (B) - Remove & replace Silicone Joint Sealer.
- (C) - Substructure repairs.
- (D) - Wingwall modifications.
- (E) - Drain removal & replacement.

GENERAL NOTES

Plan dimensions and details relative to existing plans 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.

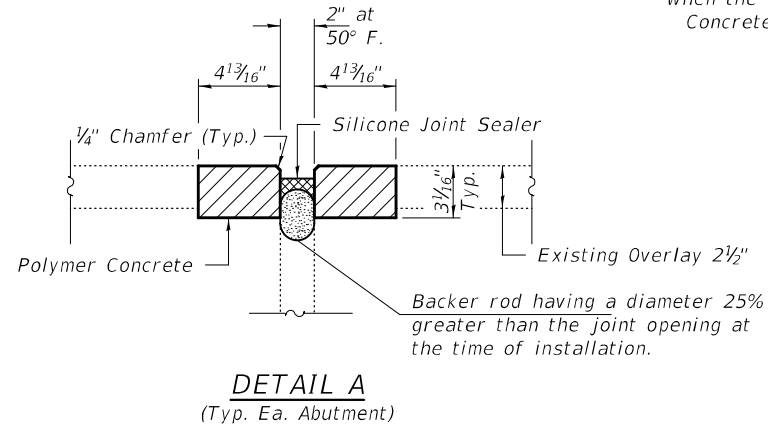
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

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

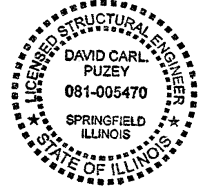
Concrete Sealer shall be applied to all new concrete surfaces.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	7.6
Reinforcement Bars, Epoxy Coated	Pound	1500
Concrete Sealer	Sq. Ft.	760
Structural Steel Removal	Pound	320
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	209
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.3
Floor Drains	Each	5
Silicone Joint Sealer, 2"	Foot	103
Polymer Concrete	Cu. Ft.	20
Furnishing & Erecting Structural Steel	Pound	320



DETAIL A
(Typ. Ea. Abutment)



EXPIRES 11-30-2022

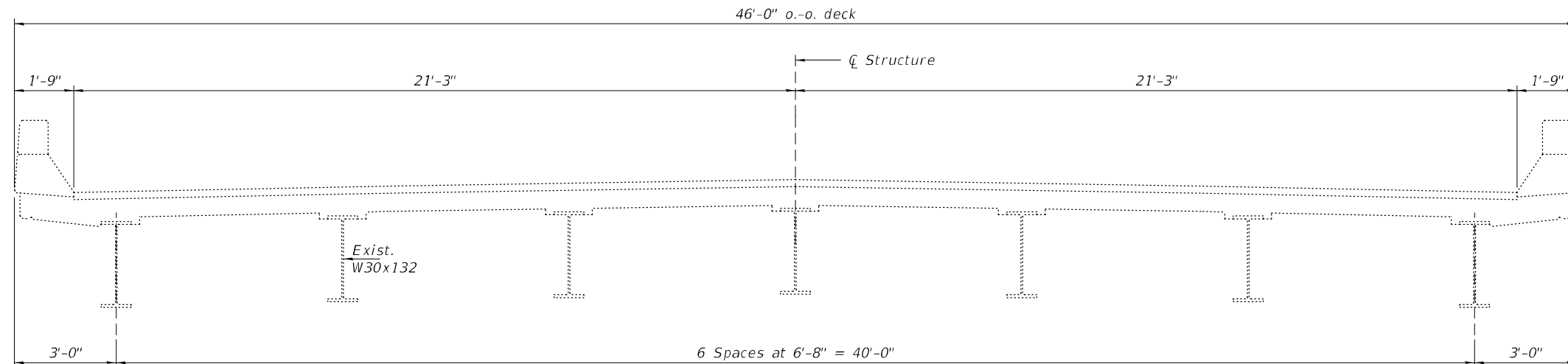
DESIGNED - Victor H. Veliz	EXAMINED - <i>Twig A. Beck</i>	DATE - SEPTEMBER 30, 2021
CHECKED - Chi-Cheung Chau	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED - <i>Chi-Cheung Chau</i>	REVISED -
CHECKED - VHV CCC	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

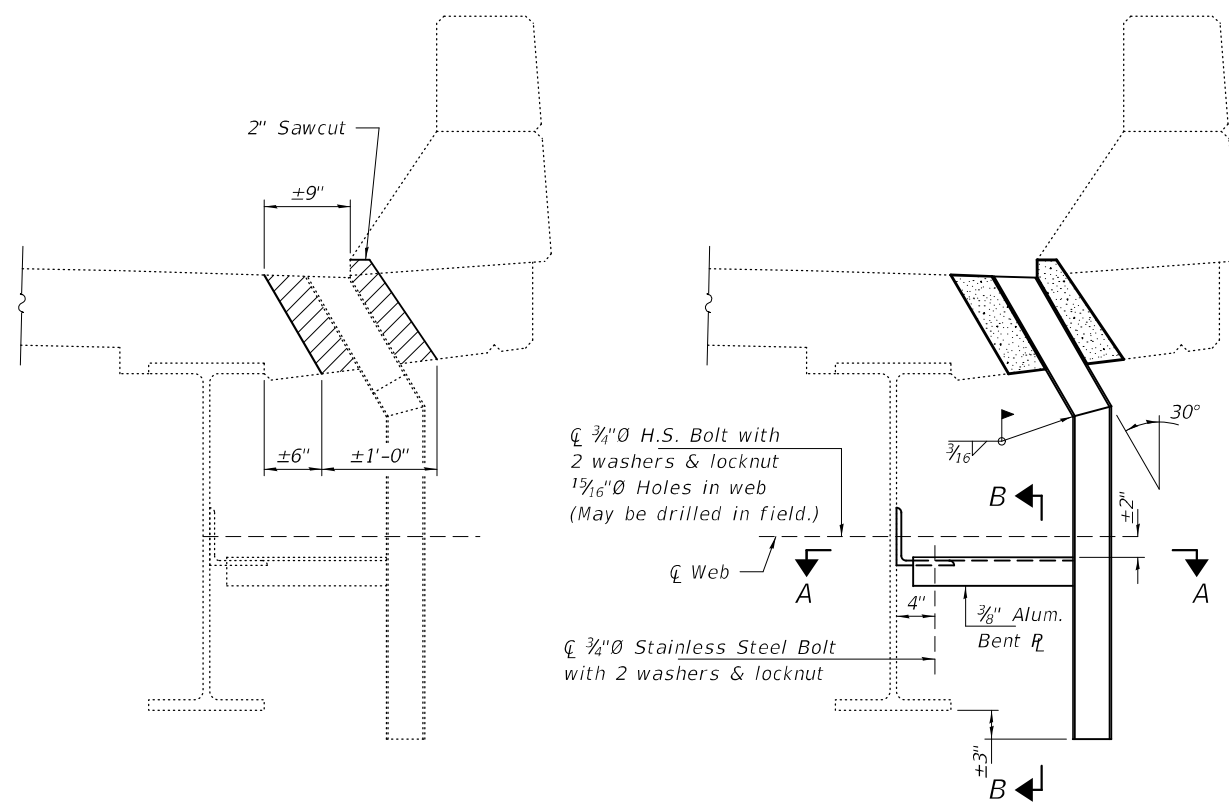
GENERAL PLAN AND ELEVATION
FAP 315 (US 136) OVER W FORK SUGAR CREEK
SN 054-0027

SHEET NO. 1 OF 11 SHEETS

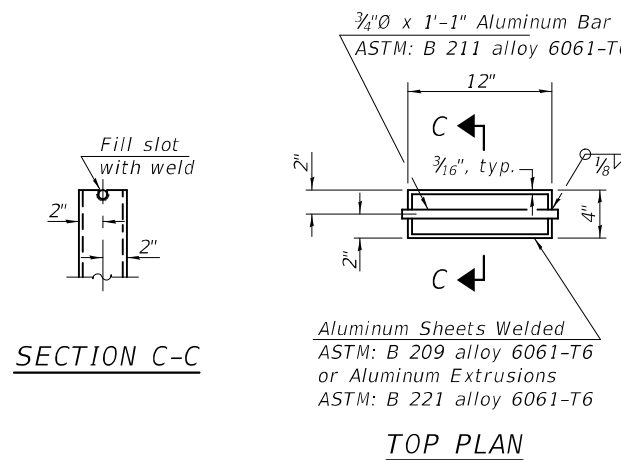
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10, BP (118)RS-4, BP	LOGAN	53	52
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				



TYPICAL CROSS SECTION

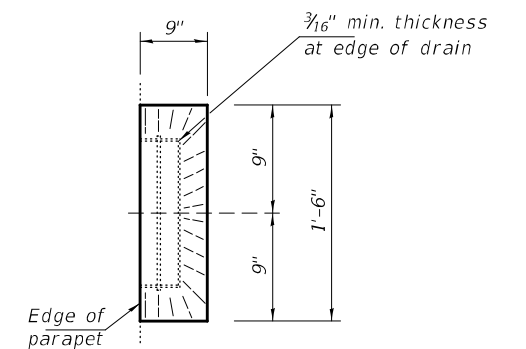


DRAIN REMOVAL & REPLACEMENT DETAILS
(5 Locations)



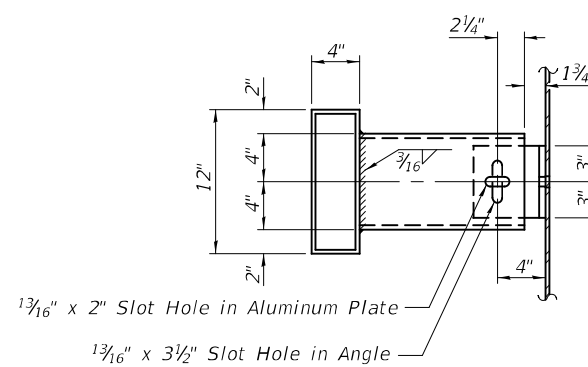
SECTION C-C

TOP PLAN

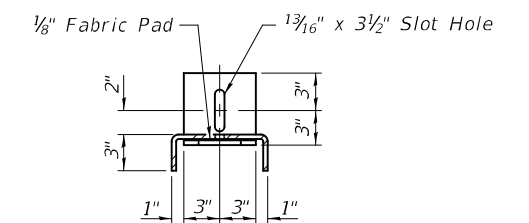


DRAIN DETAIL

* slope to drain



SECTION A-A



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Floor Drains	Each	5
Deck Slab Repair (Full Depth, Type 1)	Sq. Yd.	0.3

Notes:

The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drain shall be cleaned and given a washcoat pretreatment in accordance with Society of Protective Coatings Spec. SSPC-SP1 & SSPC Paint 27 prior to painting.

DESIGNED - VHV
 CHECKED - CCC
 DRAWN - daburdell
 CHECKED - VHV CCC

EXAMINED
 PASSED
 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

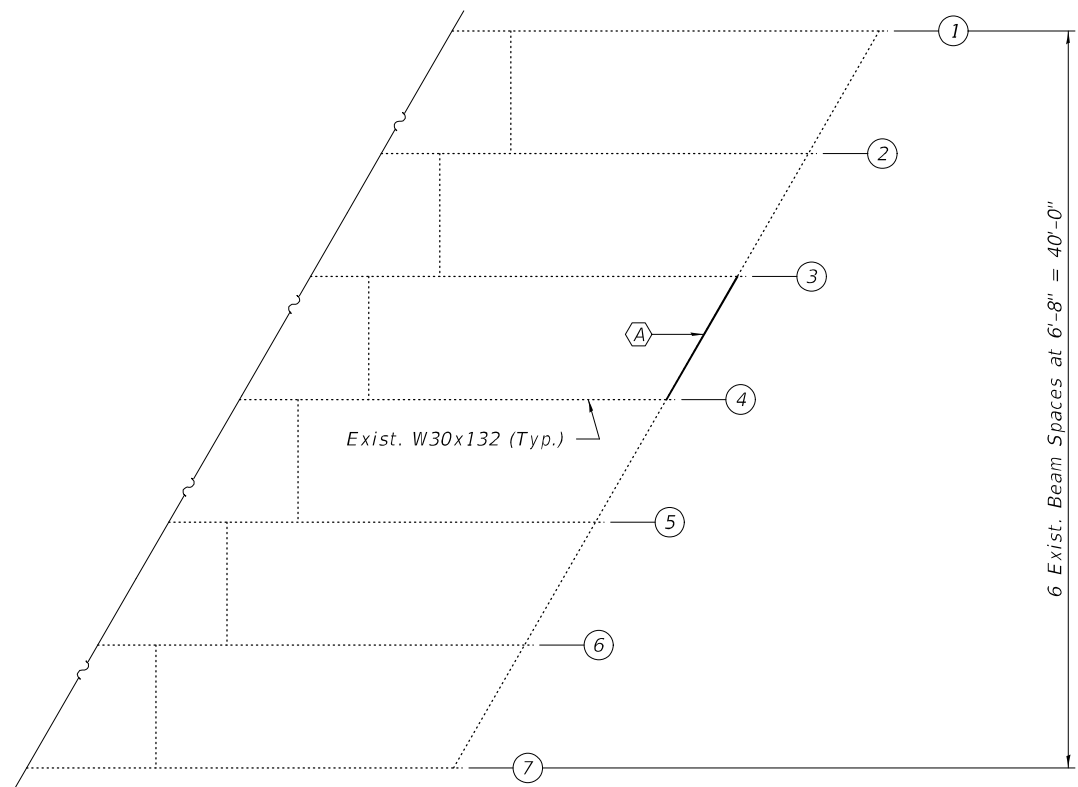
DATE - SEPTEMBER 30, 2021
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION & DRAIN DETAILS
 SN 054-0027

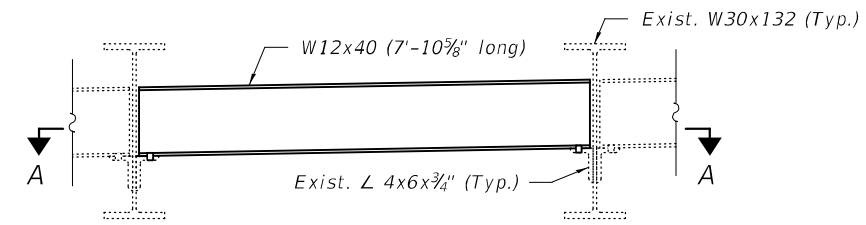
SHEET NO. 2 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	52A
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

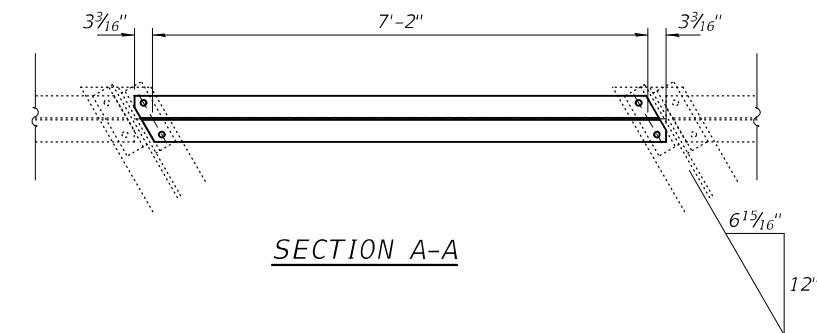


PARTIAL PLAN

Ⓐ - Remove & replace diaphragm.



NEW DIAPHRAGM



SECTION A-A

BOLT HOLE LEGEND

○ - Field drill using existing angle as template.

NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
 Diaphragm connection holes shall be $1\frac{5}{16}$ "Ø for $\frac{3}{4}$ "Ø bolts. Two hardened washers shall be required at diaphragm connections.
 Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair.
 New diaphragm, connection bolts, nuts and washers shall be hot dip galvanized according to Special Provision "Hot Dip Galvanizing for Structural Steel".
 Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing & Erecting Structural Steel	Pound	320
Structural Steel Removal	Pound	320

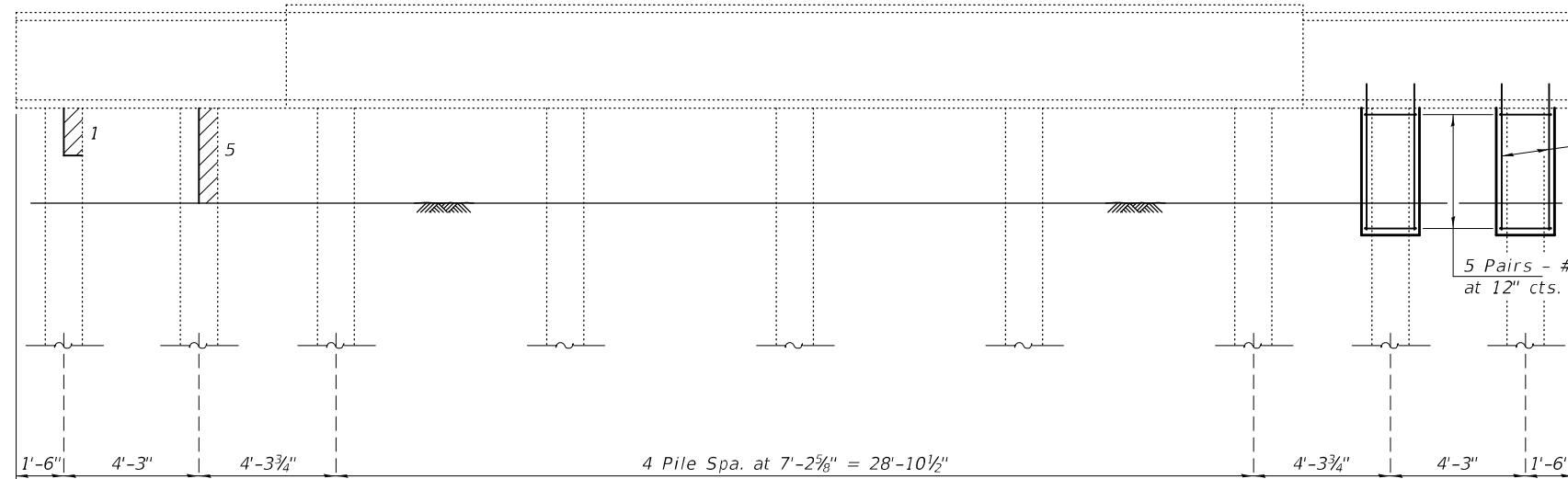
DESIGNED - VHV	EXAMINED - <i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - SEPTEMBER 30, 2021
CHECKED - CCC	PASSED - <i>Carl Ruyter</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - VHV CCC		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

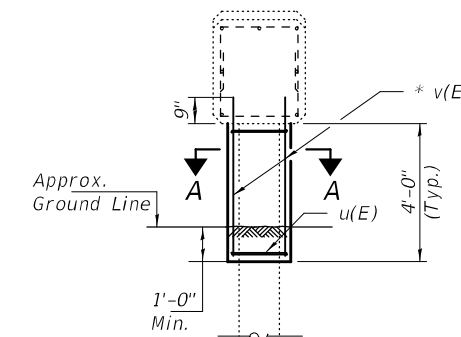
**REPAIR DETAILS
SN 054-0027**

SHEET NO. 3 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	52B
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				

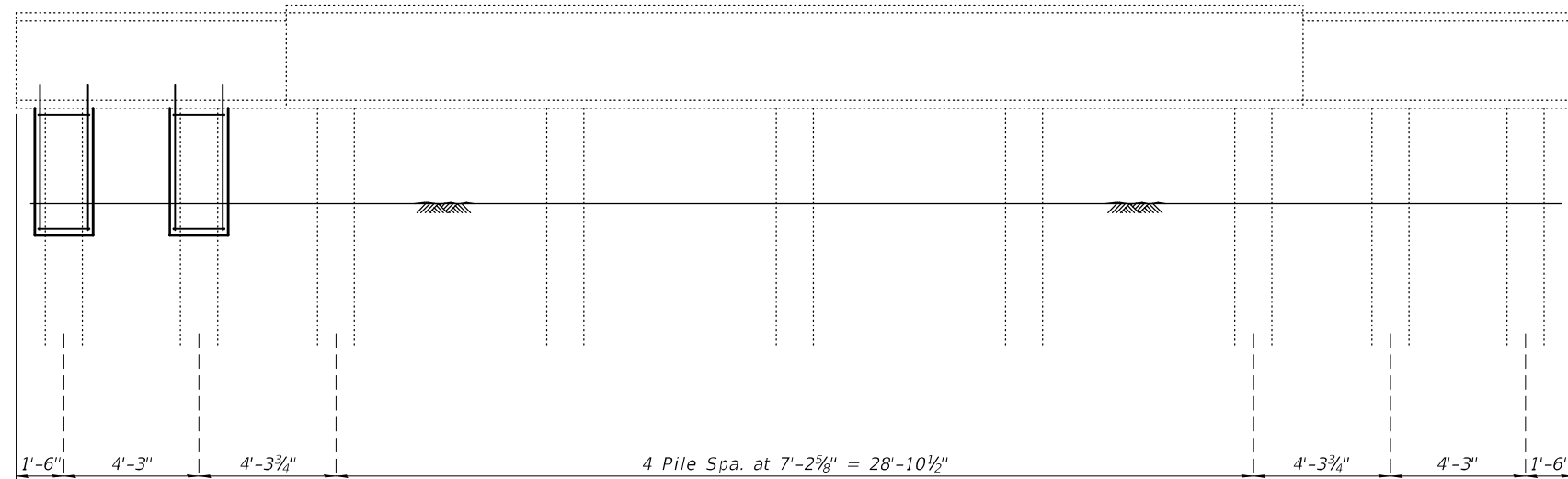


ELEVATION
(Looking East)

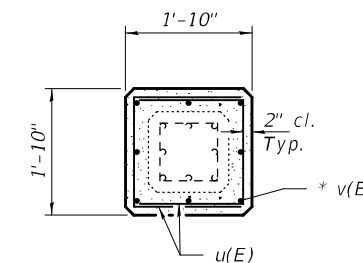


SECTION THRU ENCASEMENT REPAIR

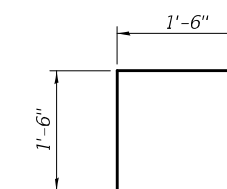
* Epoxy grout v(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.




ELEVATION
(Looking West)



SECTION A-A



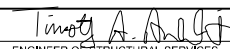
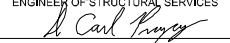
BAR u(E)

 Indicates Structural Repair of Concrete $\leq 5"$ (Unit in Sq. Ft.)

BILL OF MATERIAL - BENT 1

Bar	No.	Size	Length	Shape
u(E)	20	#4	4'-6"	—
v(E)	16	#4	4'-7"	—
Concrete Structures			Cu. Yd.	0.6
Reinforcement Bars, Epoxy Coated			Pound	110
Structural Repair of Concrete $\leq 5"$			Sq. Ft.	6

DESIGNED - VHV
CHECKED - CCC
DRAWN - daburdell
CHECKED - VHV CCC

EXAMINED
PASSED


 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

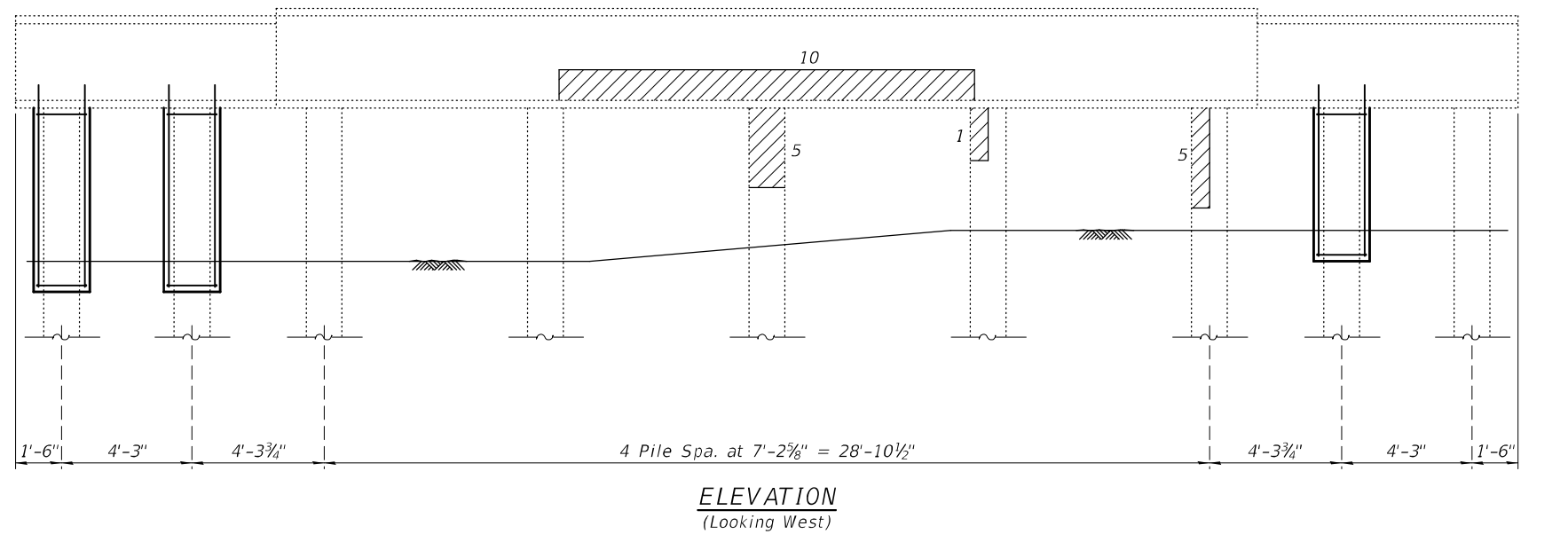
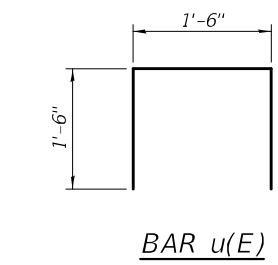
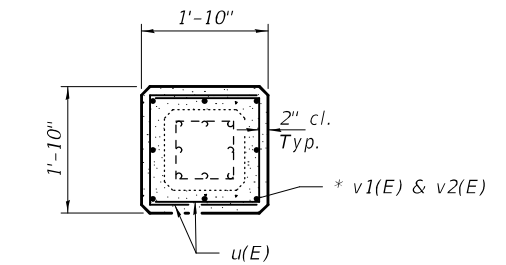
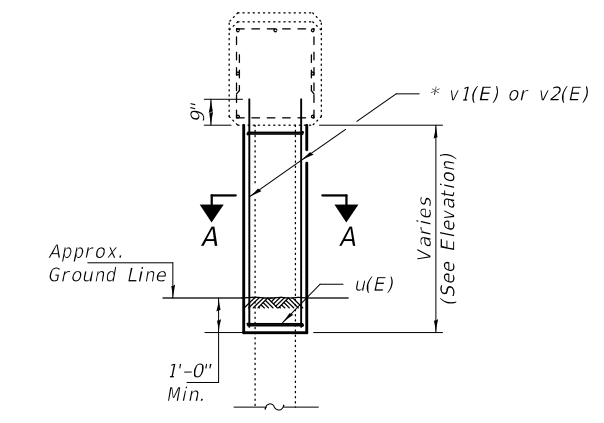
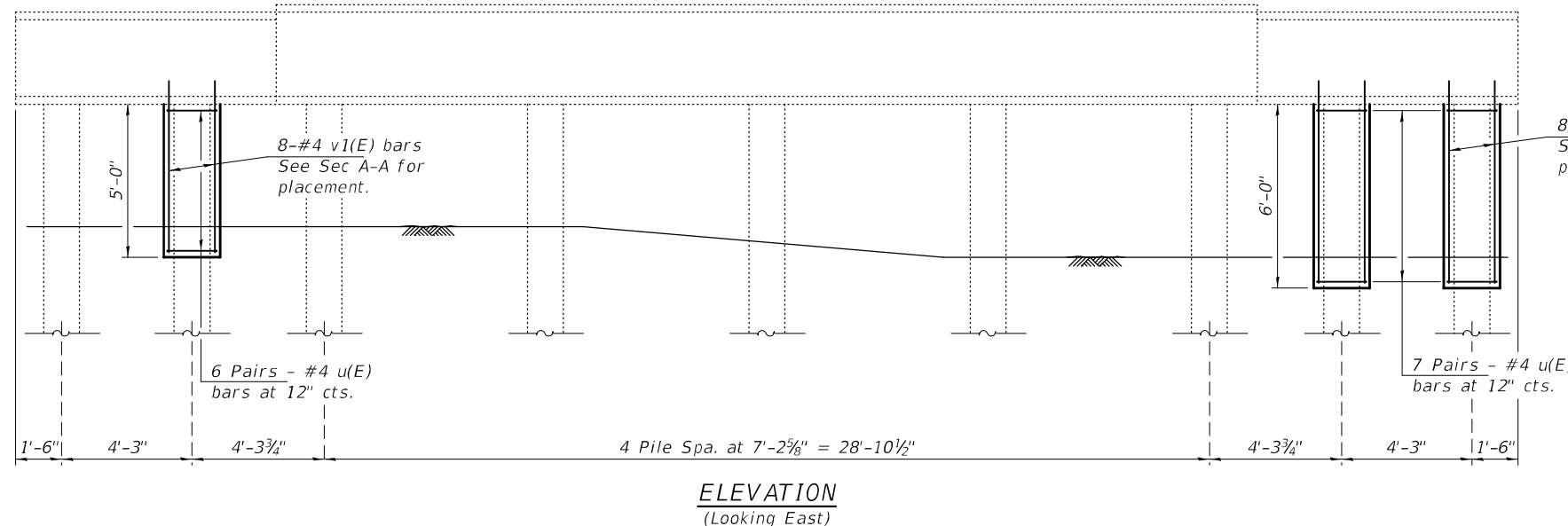
DATE - SEPTEMBER 30, 2021
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR - BENT 1
SN 054-0027

SHEET NO. 4 OF 11 SHEETS

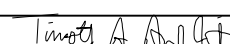
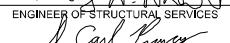
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	52C
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL - BENT 2

Bar	No.	Size	Length	Shape	
u(E)	40	#4	4'-6"	—	
v1(E)	8	#4	5'-7"	—	
v2(E)	16	#4	6'-7"	—	
Concrete Structures				Cu. Yd.	1.3
Reinforcement Bars, Epoxy Coated				Pound	220
Structural Repair of Concrete ≤ 5"				Sq. Ft.	21

 Indicates Structural Repair of Concrete ≤ 5" (Unit in Sq. Ft.)

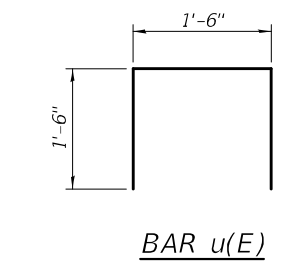
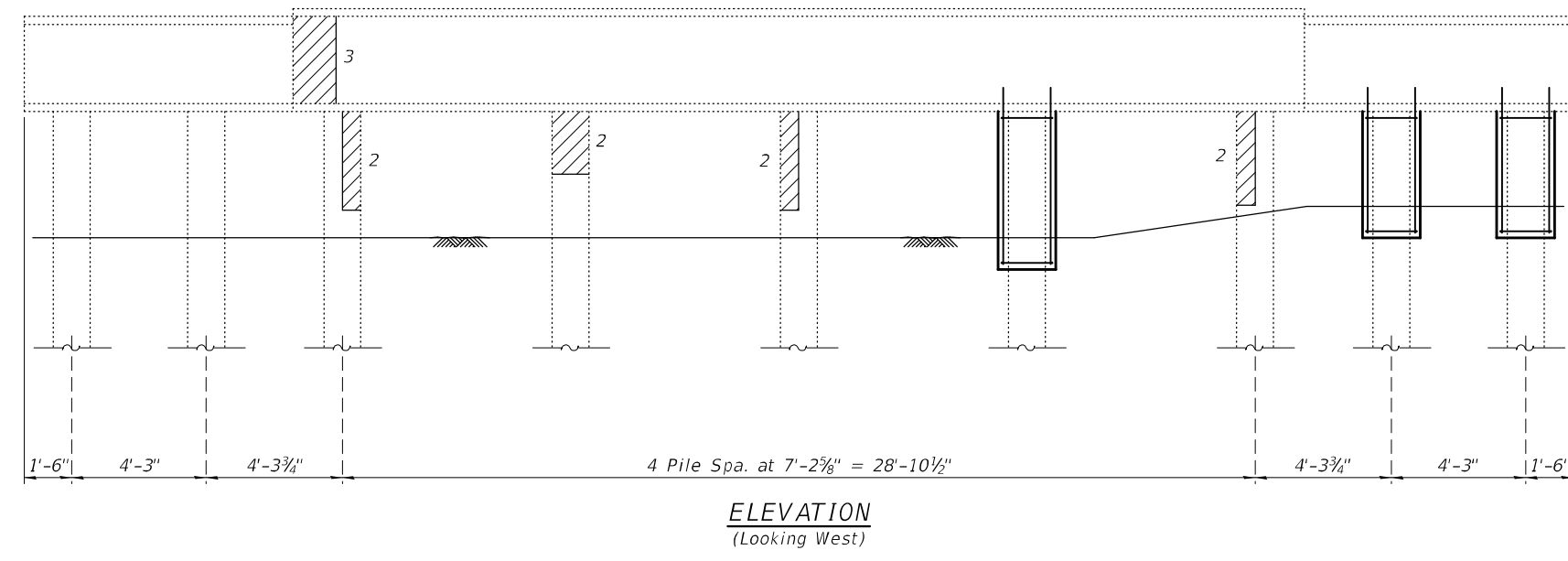
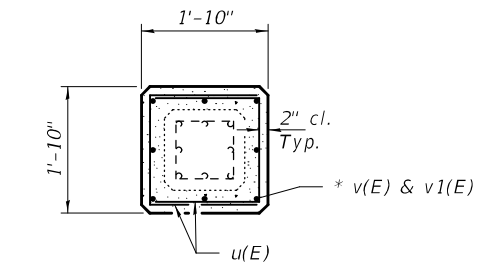
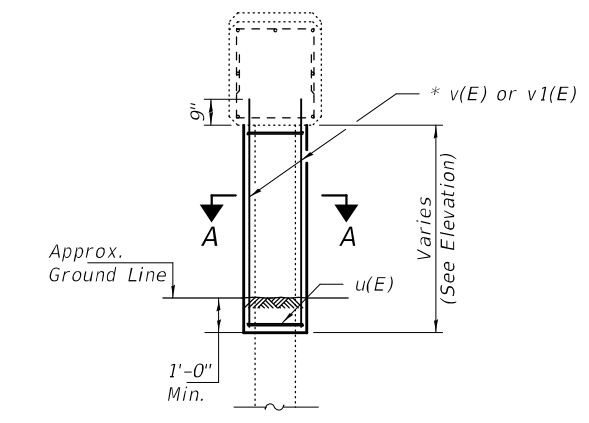
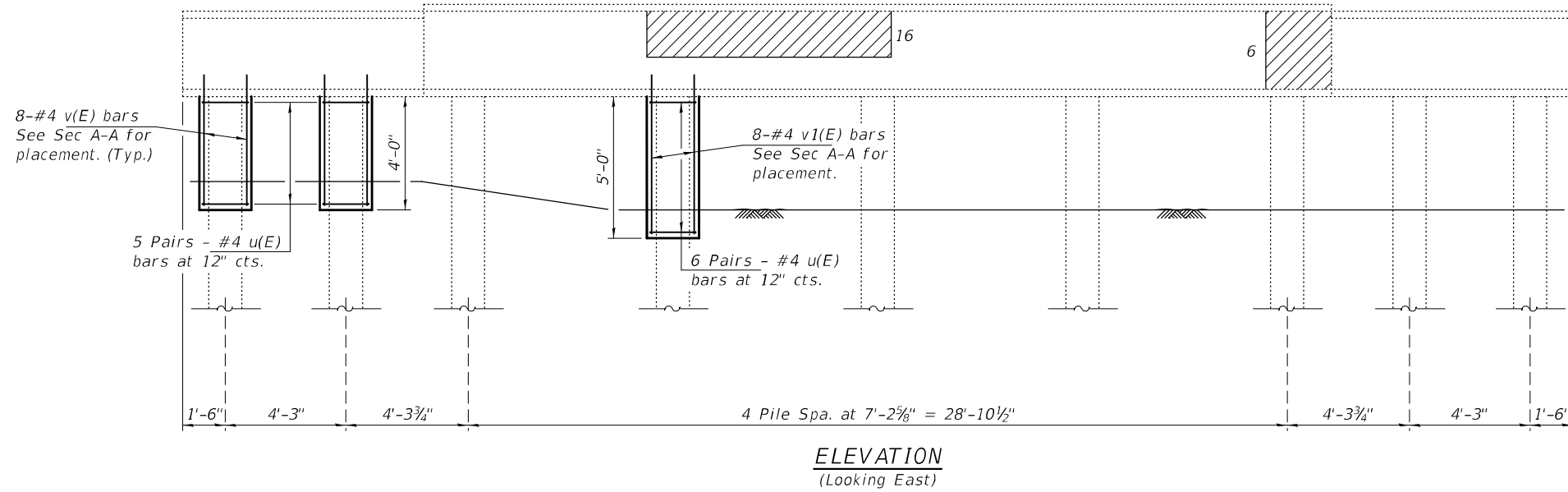
DESIGNED - VHV	EXAMINED - 	DATE - SEPTEMBER 30, 2021
CHECKED - CCC	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED - 	REVISED -
CHECKED - VHV CCC	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR - BENT 2
SN 054-0027

SHEET NO. 5 OF 11 SHEETS

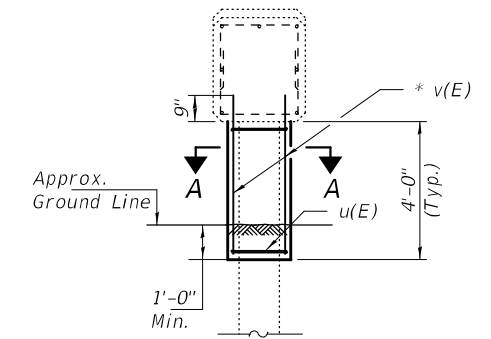
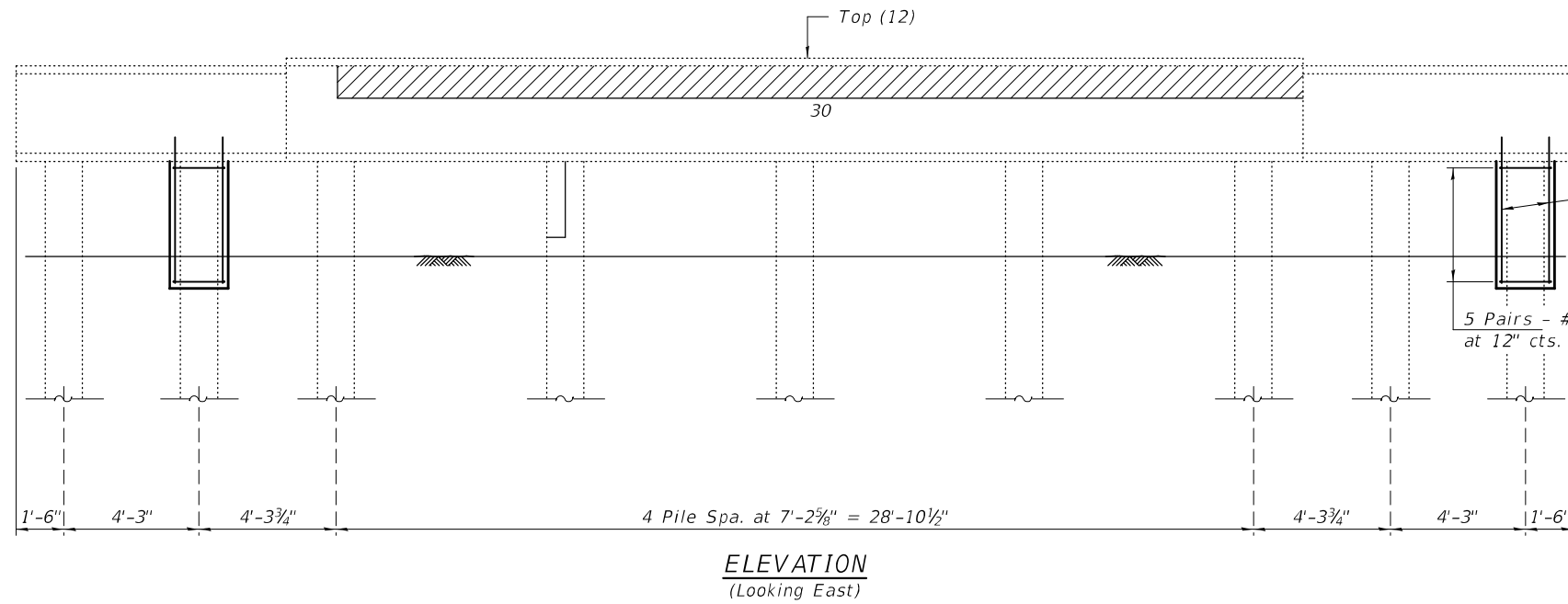
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	52D
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL - BENT 3

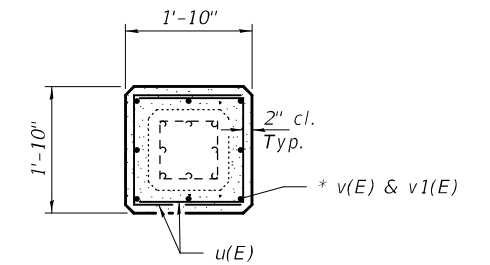
Bar	No.	Size	Length	Shape	
u(E)	32	#4	4'-6"	—	
v(E)	16	#4	4'-7"	—	
v1(E)	8	#4	5'-7"	—	
Concrete Structures				Cu. Yd.	1.0
Reinforcement Bars, Epoxy Coated				Pound	180
Structural Repair of Concrete ≤ 5"				Sq. Ft.	33

Indicates Structural Repair of Concrete ≤ 5" (Unit in Sq. Ft.)

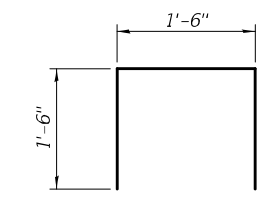


SECTION THRU ENCASEMENT REPAIR

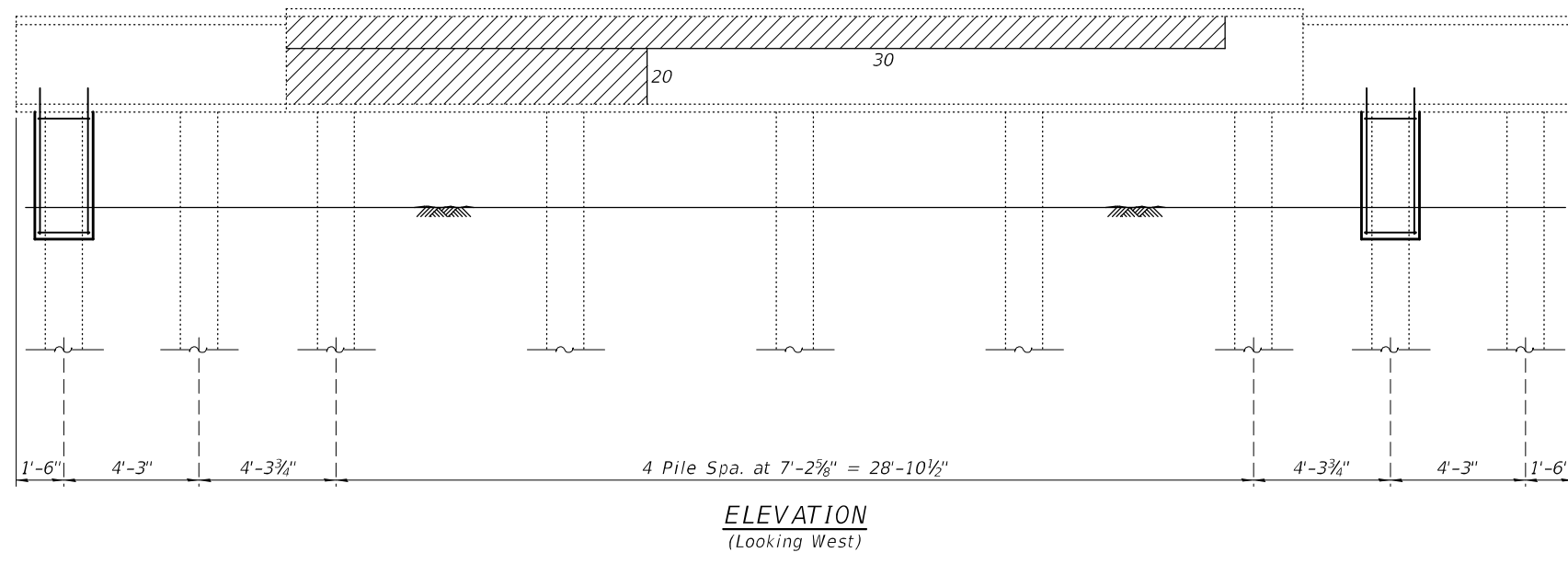
* Epoxy grout v(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



SECTION A-A



BAR u(E)



BILL OF MATERIAL - BENT 4

Bar	No.	Size	Length	Shape
u(E)	20	#4	4'-6"	—
v(E)	16	#4	4'-7"	—
Concrete Structures			Cu. Yd.	0.6
Reinforcement Bars, Epoxy Coated			Pound	110
Structural Repair of Concrete ≤ 5"			Sq. Ft.	92

Indicates Structural Repair of Concrete ≤ 5" (Unit in Sq. Ft.)

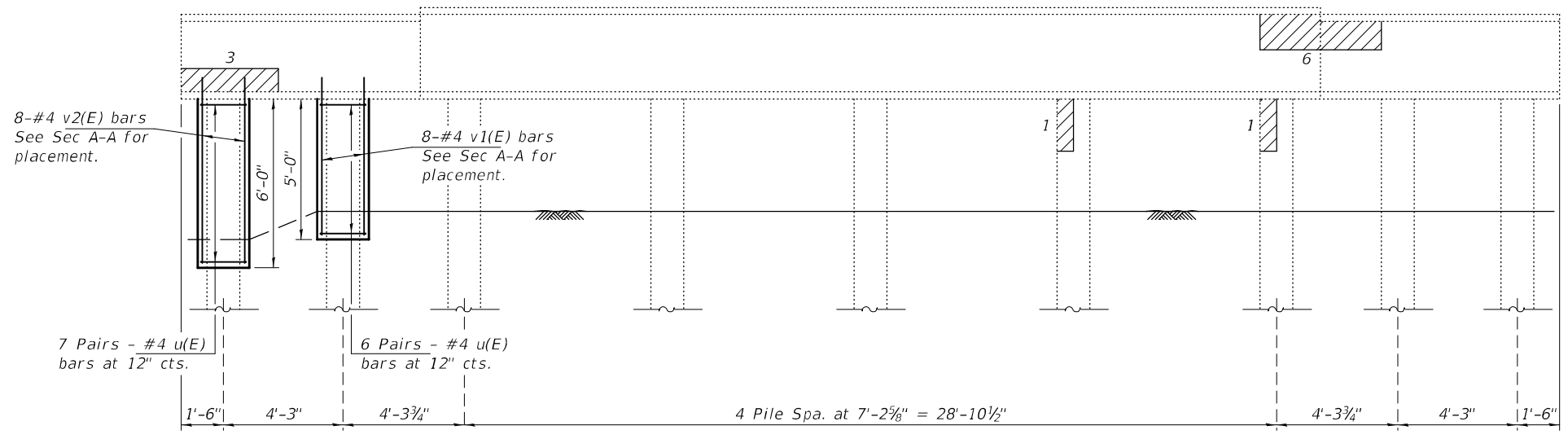
DESIGNED - VHV	EXAMINED - <i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - SEPTEMBER 30, 2021
CHECKED - CCC	PASSED - <i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - VHV CCC		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

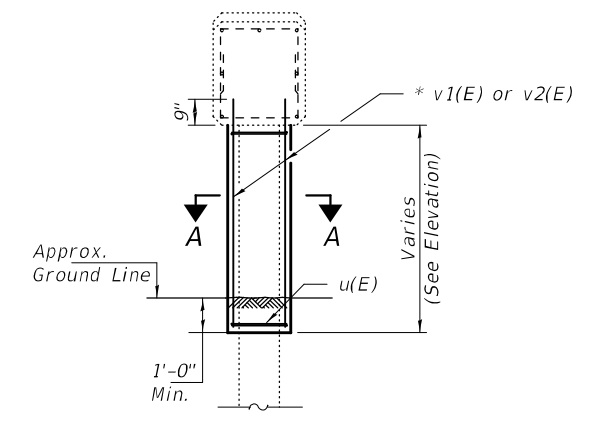
SUBSTRUCTURE REPAIR - BENT 4
SN 054-0027

SHEET NO. 7 OF 11 SHEETS

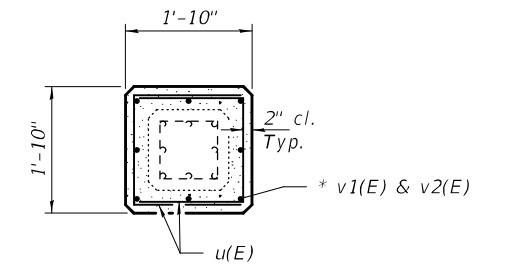
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	52F
CONTRACT NO. 72K81				
ILLINOIS FED. AID PROJECT				



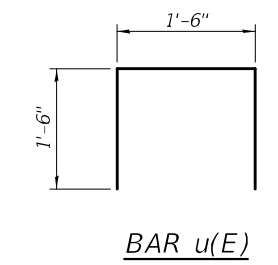
ELEVATION
(Looking East)



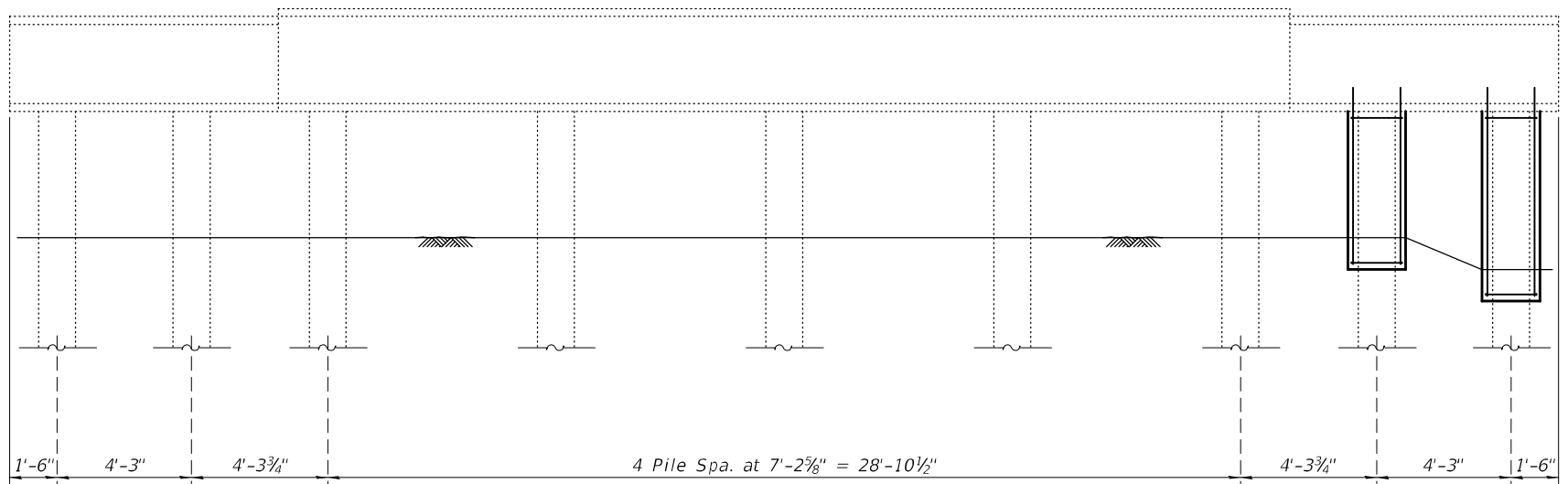
SECTION THRU ENCASEMENT REPAIR
* Epoxy grout v1(E) & v2(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



SECTION A-A



BAR u(E)

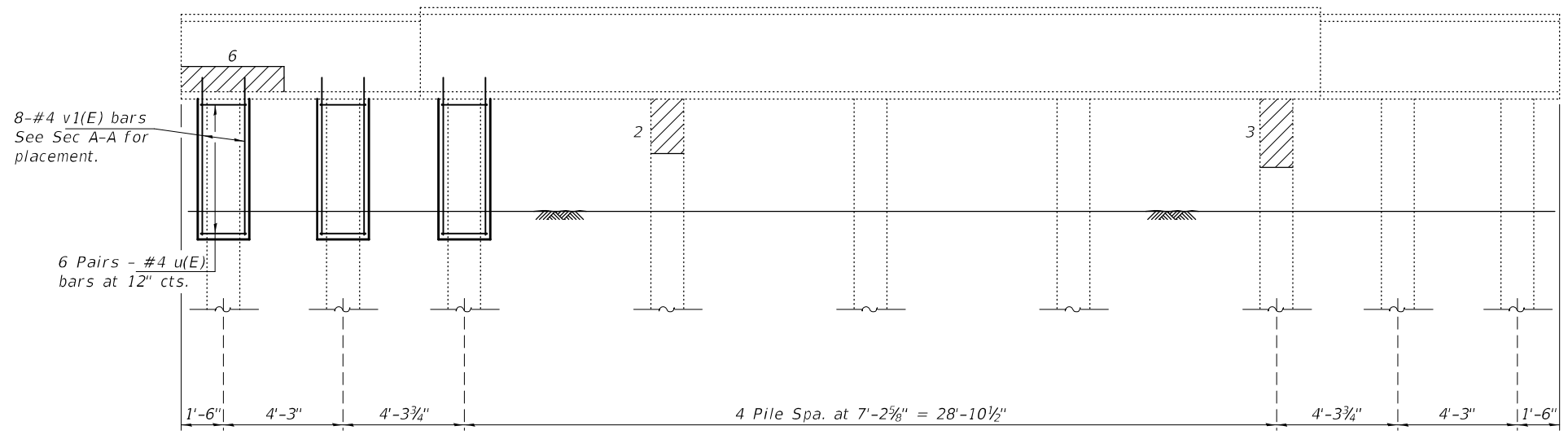


ELEVATION
(Looking West)

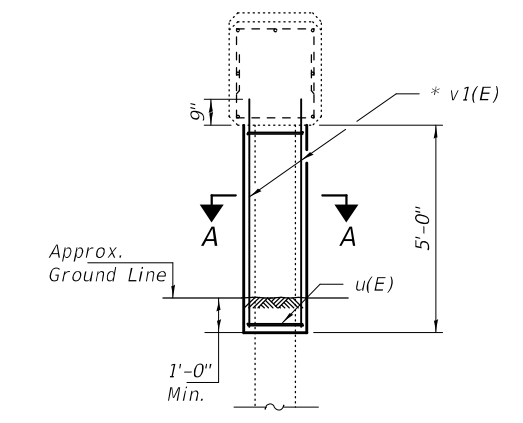
BILL OF MATERIAL - BENT 5

Bar	No.	Size	Length	Shape	
u(E)	26	#4	4'-6"	—	
v1(E)	8	#4	5'-7"	—	
v2(E)	8	#4	6'-7"	—	
Concrete Structures				Cu. Yd.	0.8
Reinforcement Bars, Epoxy Coated				Pound	140
Structural Repair of Concrete ≤ 5"				Sq. Ft.	11

Indicates Structural Repair of Concrete ≤ 5" (Unit in Sq. Ft.)

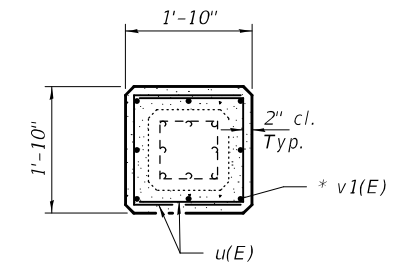


ELEVATION
(Looking East)

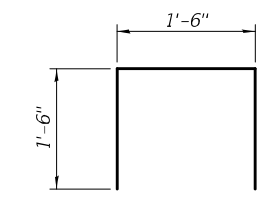


SECTION THRU ENCASEMENT REPAIR

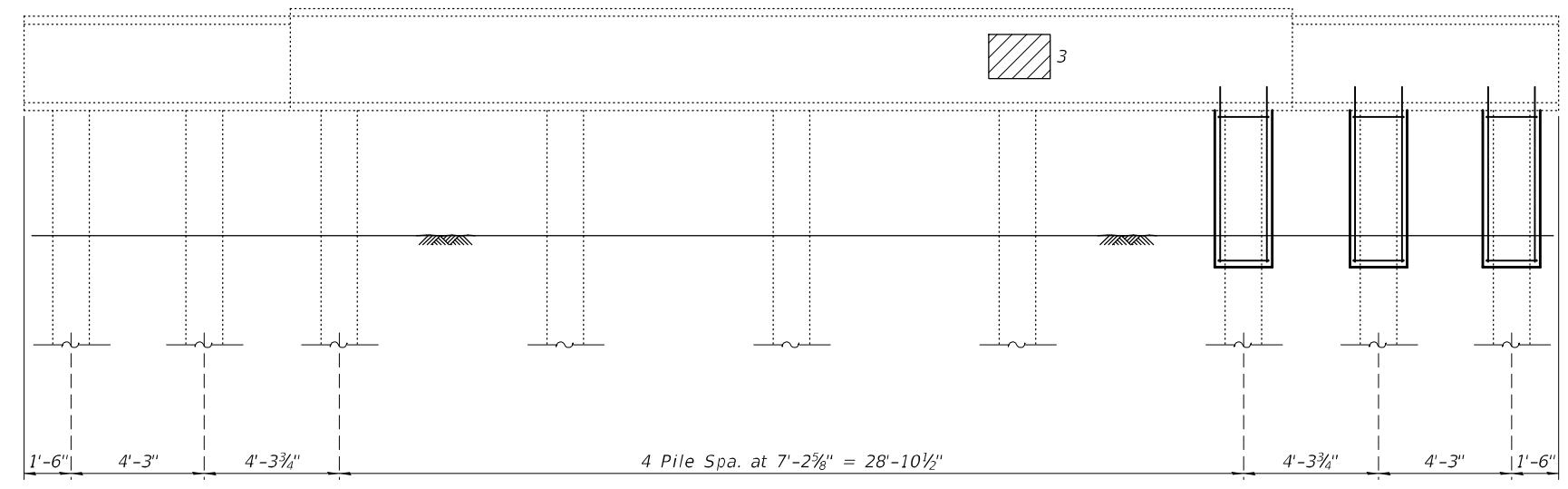
* Epoxy grout v1(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



SECTION A-A



BAR u(E)

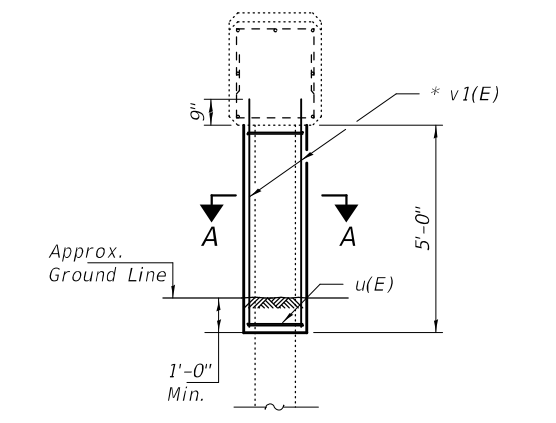
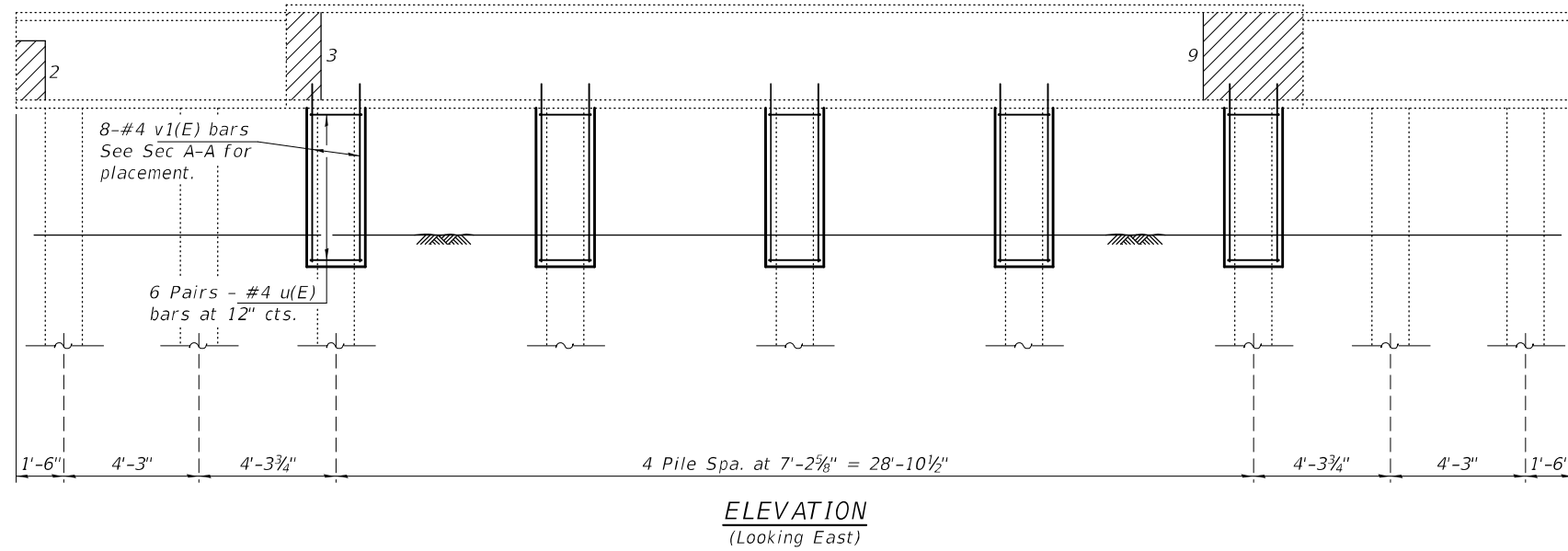


ELEVATION
(Looking West)

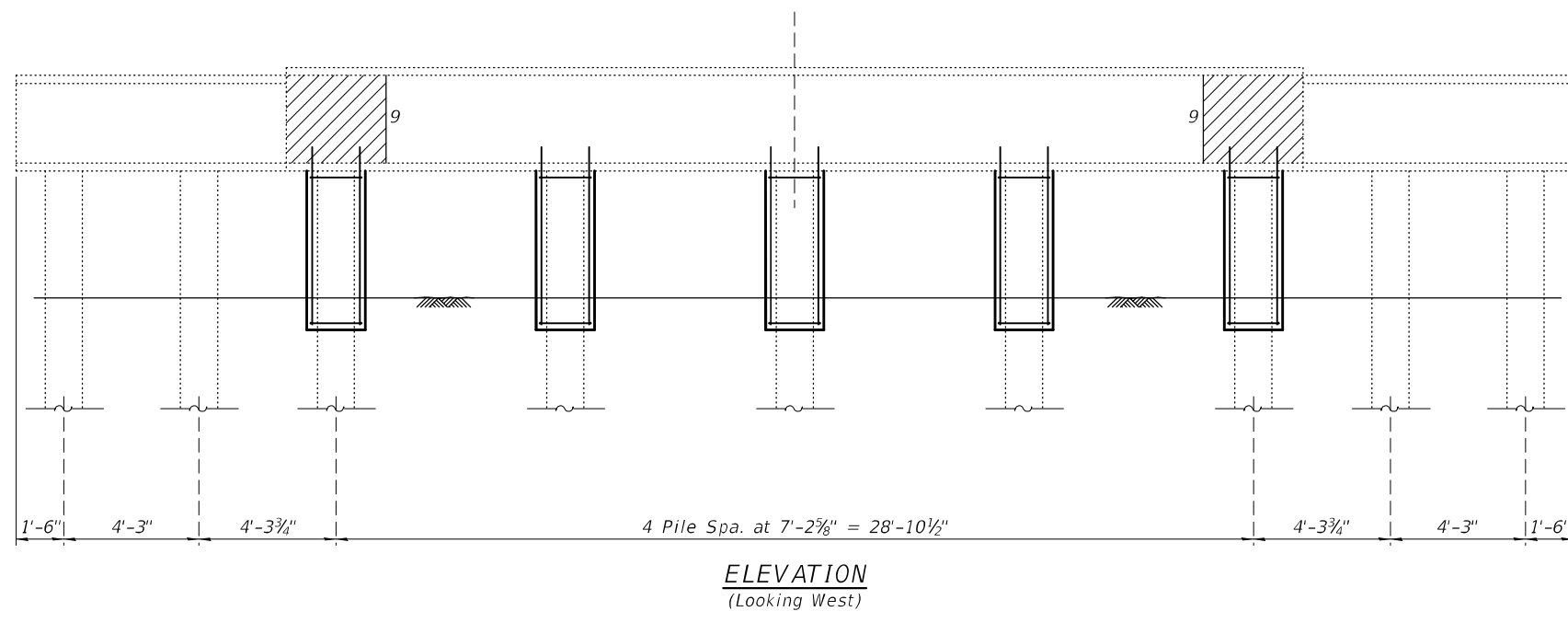
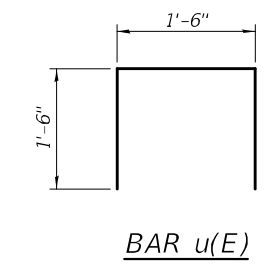
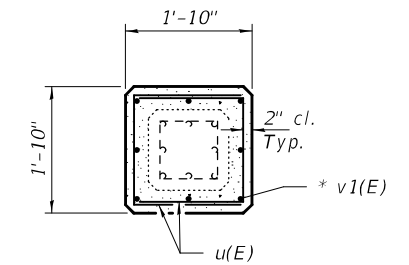
Indicates Structural Repair of Concrete $\leq 5"$ (Unit in Sq. Ft.)

BILL OF MATERIAL - BENT 6

Bar	No.	Size	Length	Shape
u(E)	36	#4	4'-6"	—
v1(E)	24	#4	5'-7"	—
Concrete Structures			Cu. Yd.	1.1
Reinforcement Bars, Epoxy Coated			Pound	200
Structural Repair of Concrete $\leq 5"$			Sq. Ft.	14



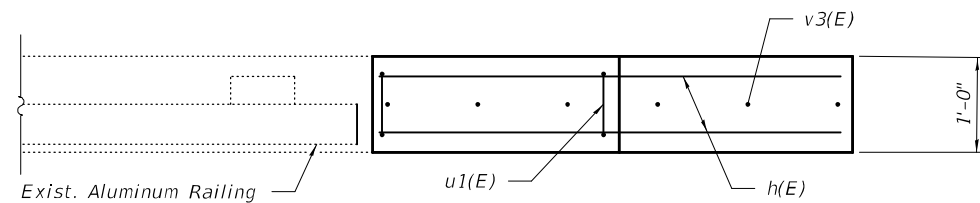
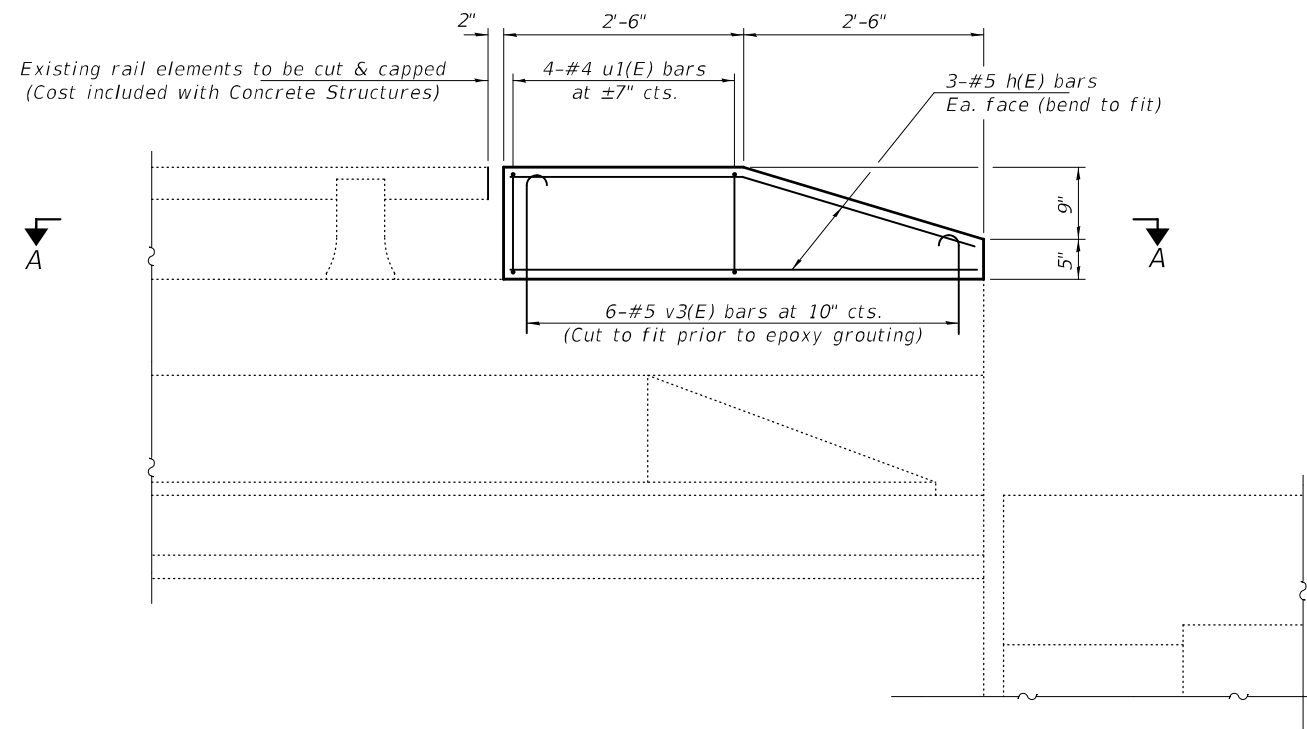
* Epoxy grout v1(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



BILL OF MATERIAL - BENT 7

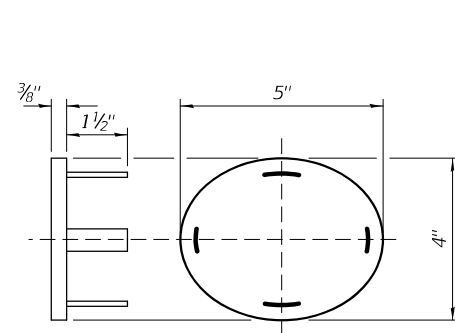
Bar	No.	Size	Length	Shape
u(E)	60	#4	4'-6"	—
v1(E)	40	#4	5'-7"	—
Concrete Structures			Cu. Yd.	1.5
Reinforcement Bars, Epoxy Coated			Pound	330
Structural Repair of Concrete ≤ 5"			Sq. Ft.	32

Indicates Structural Repair of Concrete ≤ 5" (Unit in Sq. Ft.)

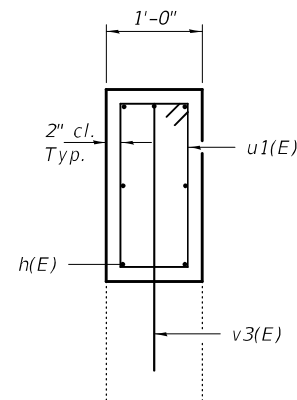


SECTION A-A

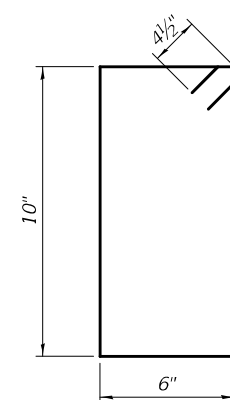
* Epoxy grout v3(E) bars in 9" min. holes according to Article 584 of the Standard Specs.



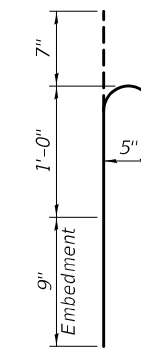
CAST END CAP



SECTION B-B



BAR u1(E)



BAR v3(E)

BILL OF MATERIAL - 4 LOCATIONS

Bar	No.	Size	Length	Shape
h(E)	24	#5	4'-8"	—
u1(E)	16	#4	3'-5"	▭
v3(E)	24	#5	2'-4"	U
Concrete Structures			Cu. Yd.	0.7
Reinforcement Bars, Epoxy Coated			Pound	210

DESIGNED - VHV
 CHECKED - CCC
 DRAWN - daburdell
 CHECKED - VHV CCC

EXAMINED
 PASSED
 ENGINEER OF BRIDGES AND STRUCTURES

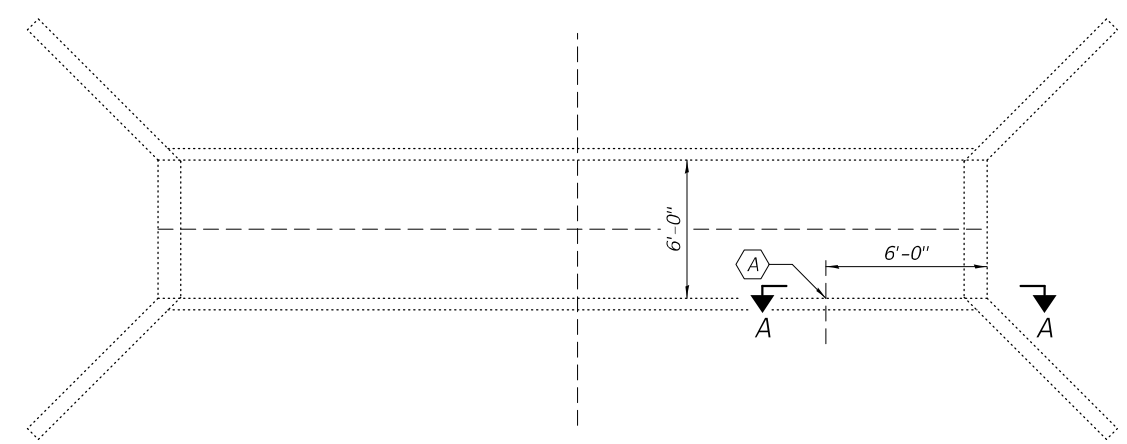
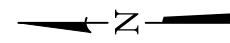
DATE - SEPTEMBER 30, 2021
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WINGWALL & RAILING MODIFICATION
 SN 054-0027**

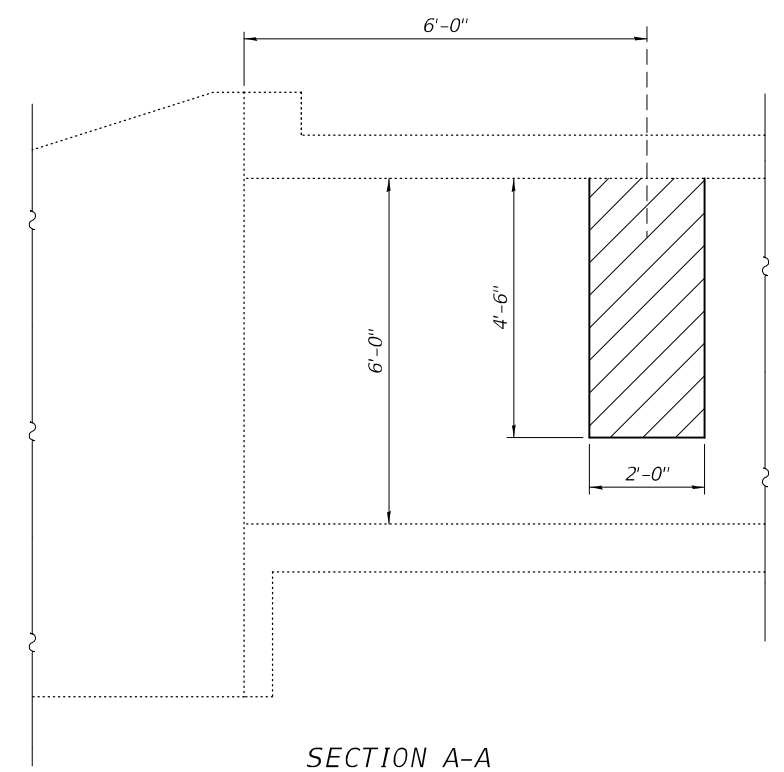
SHEET NO. 11 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	52J
CONTRACT NO. 72K81				
ILLINOIS		FED. AID PROJECT		



PLAN

⬡ - Structural Repair of Concrete



SECTION A-A

GENERAL NOTES

Plan dimensions and details relative to existing plans 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.

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	9



EXPIRES 11-30-2022

DESIGNED - Victor H. Veliz	EXAMINED - <i>Twig A. Root</i> ENGINEER OF STRUCTURAL SERVICES	DATE - SEPTEMBER 30, 2021
CHECKED - Chi-Cheung Chau	PASSED - <i>Dr. Carl Puzev</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - daburdell		REVISED -
CHECKED - VHV CCC		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REPAIR DETAILS
FAP 315 (US 136) OVER DITCH
SN 054-7006**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(117)RS-10,BP (118)RS-4,BP	LOGAN	53	53
CONTRACT NO. 72K81			ILLINOIS FED. AID PROJECT	

SHEET NO. 1 OF 1 SHEETS