16	
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### INDEX OF SHEETS

03-06-2020 LETTING ITEM 075

# STATE OF ILLINOIS

### 1 COVER SHEET

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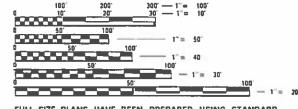
28 DRAINAGE DETAIL SHEET

29 RIPRAP DETAIL

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### **STANDARDS**

000001-07	70140009	601001-05
001001-02	701401–12	601101-02
280001-07	701402-12	701428-01
482001-02	701406-12	
542401-03	701426-09	
610001-08	701901–08	
630001–12	704001-08	
631031-16	725001-01	
642001-02	781001-04	
701101-05	78200601	
70110602		



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

0

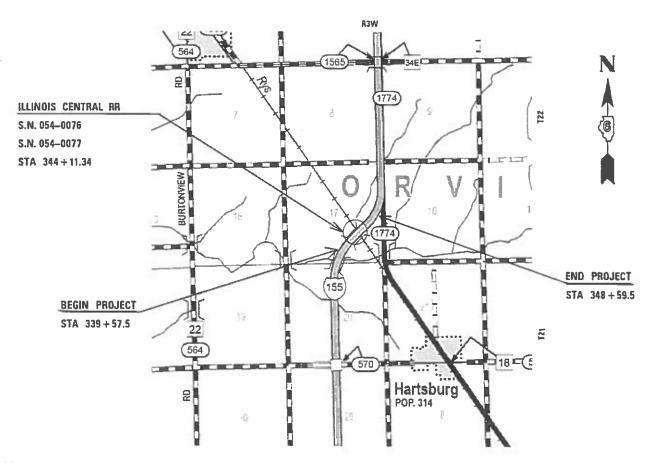
PROJECT ENGINEER: JAY EDWARDS (217) 785-0597
PROJECT MANAGER: AL-BARRAE SHEBIB (217) 524-0946

# **DEPARTMENT OF TRANSPORTATION**

# PROPOSED HIGHWAY PLANS

FAI 155 (I-155)
SECTION (54-10)BRR, BDR
PROJECT NHPP-S32N(594)
BRIDGE DECK OVERLAY, BRIDGE REPAIR
LOGAN COUNTY

C-96-110-18



GROSS LENGTH = 902 FT. = 0.17 MILE NET LENGTH = 902 FT. = 0.17 MILE

CONTRACT NO. 72K76

# ### 15.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10

D-96-062-18

FUNCTIONAL CLASSIFICATION
RURAL INTERSTATE
2017 ADT=11,000

P.V = 79.3% S.U. = 6.3% M.U. = 14.4%

LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED

REGIONAL ENGINEER

ENGINEER OF DESIGN AND ENVIRONMENT

TO THE TRANSPORTATION

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. - MS

### **GENERAL NOTES**

- 1. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- 2. IN ADDITION TO FIELD SURVEYS AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- 3. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.
- THE DISTRICT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS (PH 217-785-7314).
- NO CONSTRUCTION SHALL BE DONE WITHIN FIFTY (50) FEET OF ANY RAILROAD CROSSING WITHOUT OBTAINING THE PROPER RAILROAD PROTECTIVE LIABILITY INSURANCE.
- 6. THE GRADING AND SHAPING OF THE DITCHES SHALL BE DONE IN SUCH A MANNER TO ESTABLISH POSITIVE FLOW BETWEEN DRAINAGE STRUCTURES, OR BETWEEN THE EXISTING ELEVATION AT THE UPSTREAM END OF THE GRADING TO THE DOWNSTREAM DRAINAGE STRUCTURE.

### **COMMITMENTS**

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

### THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

BITUMINOUS MATERIALS (TACK COAT) BITUMINOUS MATERIALS (TACK COAT) PRIME COAT FOR AGGREGATE BASES HMA SURFACE/BINDER (112 lbs) SUBBASE GRANULAR MATERIAL - TYPE C ALL OTHER AGGREGATE APPLICATIONS 0.025 lb/SQ. FT. (BETWEEN HMA LIFTS, IL 4.75, BRICK)
0.05 lb/SQ. FT. (EXISTING HMA, MILLED SURFACE, CONCRETE, MILLED/TINED CONCRETE)
0.25 lb/SQ. FT. +/-0.01.
0.056 TONS/(SQ. YD.\*IN.)
1.8 TONS/CU. YD
1.6 TONS/CU. YD. (AGGREGATES-TYPE B & TYPE C, AGGREGATE WEDGE SHOULDERS, ETC.)

### MIXTURE REQUIREMENTS

MIXTURE NUMBER	1	2	3
MIXTURE USE(S)	INTERSTATE POLYMER HMA SURFACE	HMA BASE COURSE	SHOULDERS (TOP LIFT)
AC/PG:	SBS PG 70-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N70	4.0% @ N70	4.0% @ N70
MIXTURE COMPOSTION: (GRADATION MIXTURE)	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE	MIX "D"	N/A	MIX "C"
QUALITY MANAGEMENT	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A	N/A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6

EXAMINED December 16 20 19
ENGINEER OF OPERATIONS

EXAMINED November 26 20 19
ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED December 6 20 19
ENGINEER OF PROGRAM DEVELOPMENT

USER NAME = cislerad	DESIGNED -	REVISED -	
	DRAWN	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED	REVISED -	
PLOT DATE = 12/16/2019	DATE	REVISED +	

SCALE: N/A

SHEET 1

POUND POUND ACRE	TOTAL QUANTITY  50  0.25  23  23	90% 10% : BRI	1004-0000 FED. STATE DGE 159 S.N. 054-0077  25  0.15
FOOT  ACRE  POUND  POUND	QUANTITY  50  0.25  23  23	90% 10%: BRI 00 S.N. 054-0076	FED. STATE DGE 159 S.N. 054-0077  25  0.15  14
FOOT  ACRE  POUND  POUND	QUANTITY  50  0.25  23  23	10% : BRII 000 S.N. 054-0076  25  0.1	STATE DGE 159 S.N. 054-0077 25 0.15
FOOT  ACRE  POUND  POUND	QUANTITY  50  0.25  23  23	BRII 00 S.N. 054-0076 25 0.1	DGE 59 S.N. 054-0077 25 0.15
FOOT  ACRE  POUND  POUND	QUANTITY  50  0.25  23  23	00 S.N. 054-0076 25 0.1	59 S.N. 054-0077 25 0.15
FOOT  ACRE  POUND  POUND	QUANTITY  50  0.25  23  23	S.N. 054-0076  25  0.1  9	S.N. 054-0077  25  0.15  14
FOOT  ACRE  POUND  POUND	0.25 23 23	25 0.1 9	25 0.15 14
POUND POUND	0.25	9	0.15
POUND	23	9	14
POUND	23	9	14
POUND	23	9	14
POUND			
POUND			
	23	9	
	23	9	
ACRE			14
	0.25	0.1	0.15
EEDING POUND		20	30
SO YD	28	14	14
30 10	20	14	14
SQ YD	6	3	3
TON	723	360	363
SO YD	1807	899	908
SQ YD	92	46	46
SQ YD	748	374	374
SQ YD	64	32	32
70 TON	539	284	255
POUND	2538.5	1348	1190.5
	SQ YD  SQ YD  TON  SQ YD  SQ YD  SQ YD  SQ YD  TON	SQ YD 28  SQ YD 6  TON 723  SQ YD 1807  SQ YD 92  SQ YD 748  SQ YD 64	SQ YD       28       14         SQ YD       6       3         TON       723       360         SQ YD       1807       899         SQ YD       92       46         SQ YD       748       374         SQ YD       64       32         70       TON       539       284

REV.	-	MS

USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2019	DATE -	REVISED -

NHPP-S32N(594)

						F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	รบ	MMAR	Y OF QU	ANTITIES		155	(54-10)BRR,BDR	LOGAN	46	3
								CONTRACT	NO. 72	2K76
SCALE:	SHEET 1	OF 5	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

				PPS# 6-01004-0000 90% FED.			
				90%	FED.		
					STATE		
					DGE		
CODE			TOTAL		59		
NO.	ITEM	UNIT	QUANTITY	S.N. 054-0076	S.N. 054-0077		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	267	267			
X4404260	PAVED SHOULDER (SPECIAL)	SQ YD	1816	899	917		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	60	30	30		
			<u> </u>				
50102400	CONCRETE REMOVAL	CU YD	23	11.5	11.5		
F01046F0	CLORE WALL REMOVAL	50.40	115	44	71		
50104650	SLOPE WALL REMOVAL	SQ YD	115	44	71		
50157300	PROTECTIVE SHIELD	SQ YD	1292	646	646		
1							
50300255	CONCRETE SUPERSTRUCTURE	CU YD	28	14	14		
50300300	PROTECTIVE COAT	SQ YD	1292	646	646		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3500	1750	1750		
50800515	BAR SPLICERS	EACH	56	28	28		
51100100	SLOPE WALL 4 INCH	SQ YD	115	44	71		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	172	86	86		
54262712	METAL FLARED END SECTIONS 12"	EACH	8	4	4		
			1	<u></u>	l .		

REV N	1S
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USER NAME = cislerad	DESIGNED -	REVISED -									F.A.I.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN -	REVISED -	STATE O	F ILLINOIS		SI	UMMA	ARY OF	QUA	ANTITIES	155	(54-10)BRR,BDR	LOGAN	46 4
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF	TRANSPORTATION									CONTRAC	T NO. 72K76
PLOT DATE = 12/16/2019	DATE -	REVISED -			SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.   ILLINOIS   FED. AID PROJECT						ID PROJECT			

NHPP-S32N(594)

NHPP-S32N(594)
PPS# 6-01004-0000
90% FED.
10% STATE
BRIDGE
0059

		T		1		STATE DGE
	CODE		0059			
	NO.	ITEM	UNIT	TOTAL QUANTITY	S.N. 054-0076	S.N. 054-0077
	58700300	CONCRETE SEALER	SQ FT	29	24	5
	59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	78	30	48
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8	4	4
	60100945	PIPE DRAINS 12"	FOOT	200	100	100
	60108100	PIPE DRAINS 4" (SPECIAL)	FOOT	140	70	70
	61000225	TYPE F INLET BOX, STANDARD 610001	EACH	4	2	2
						1
	61000335	TYPE G INLET BOX, STANDARD 610001	EACH	4	2	2
	60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	2034	1017	1017
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1000	500	500
_				1		
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	2	2
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	2	2
					_	_
	63200310	GUARDRAIL REMOVAL	FOOT	1357	676	681
	64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2034	1012	1022
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
				1		
	67100100	MOBILIZATION	L SUM	1	0.5	0.5
	70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1	0.5	0.5
	,0100207	THATTE CONTINUE AND TROTECTION, STANDARD 701402	LACIT	1	0.5	0.5
				<u> </u>		<u> </u>

\* SPECIALTY ITEM

REV. - MS

USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

								RTE.			COUNTY	SHEETS	NO.
SUMMARY OF QUANTITIES						155	(54-10)BRR,BD	OR	LOGAN	46	5		
Ī											CONTRAC	T NO. 7	2K76
SCALE:	SHEET 3	3 (	F :	5	SHEETS	STA.	TO STA.	ILLINOIS   FED. AID PROJECT					

	CODE			TOTAL	BRI	STATE DGE 059
	NO.	ITEM	UNIT	QUANTITY	S.N. 054-0076	S.N. 054-0077
	NO.	TT LIT	OWIT	QUANTITI	3.IN. 034-0070	3.14. 034-0077
	70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.5	0.5
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
	70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.5	0.5
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	395	200	195
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	132	67	65
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	750	375	375
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	750	375	375
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
	70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	2	2
*	78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	3095	1541	1554
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	6	6
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	20	10	10
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	6	6

\* SPECIALTY ITEM

USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2019	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

						F.A.I. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	SUMMARY OF QUANTITIES					155	(54-10)BRR,BDR	LOGAN	46	6
								CONTRACT	NO. 72	2K76
	SHEET 4	OF 5	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

ODEL: Default IF NAME: ow::Nolanroom dot Illinois gov::PWIDOTIDog

					MILE-33	ZN(394)			
					PPS# 6-01	1004-0000			
					90% FED.				
			1			STATE			
						DGE			
	CODE			TOTAL	00				
	NO.	ITEM	UNIT	QUANTITY	S.N. 054-0076	S.N. 054-0077			
	Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	92	46	46			
	Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	44	22	22			
	Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1202	601	601			
	Z0012166	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 3/4"	SQ YD	1202	601	601			
	20012100	Bridge Beak Michosieloa conche e overleat 2 5/4	30 15	1202	001	001			
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	28.5	24	4.5			
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	9	1	8			
	Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1082	541	541			
	Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	2034	1017	1017			
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0.5	0.5			
	X0323586	PIPE DRAIN REMOVAL	FOOT	702	355	347			
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1290	642	648			
			<u> </u>						
	X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	764	382	382			
Ø	Z0076600	TRAINEES	HOUR	500	500				
	X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	0.5	0.5			
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500				

Ø 0042

REV. - MS

USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2019	DATE -	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

SCALE:

NHPP-S32N(594)

	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES	155 (54-10)BRR,BDR		LOGAN	46	7
	┙		CONTRACT	NO. 72	2K76
SHEET 5 OF 5 SHEETS STA. TO STA.	ì	ILLINOIS   FED. AID PROJECT			i i

SEEDING, EROSION CONTROL, AND DITCH SCHEDULE							
	21400100	25000210	25000400	25000500	25000600	25100115	28000250
LOCATION	GRADING AND SHAPING DITCHES	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING
	FOOT	ACRE	POUND	POUND	POUND	ACRE	POUND
STA 341+88 TO 343+00	112	0.1	9	9	9	0.1	20
STA 345+51 TO 347+10	159	0.15	14	14	14	0.15	30
TOTAL	271	0.25	23	23	23	0.25	50

					SHO	ULDER SCHEDULI	E			
				35501316	35501324	31101900	48102100	64200116	60108104	Z0040530
	1	LOCATION		HMA BASE COURSE, 8"	HMA BASE COURSE, 10"	SUBBASE GRANULAR MATERIAL, TYPE C	AGGREGATE WEDGE SHOUDLER, TYPE B	SHOULDER RUMBLE STRIPS, 16 INCH	PIPE UNDERDRAINS, TYPE 1, 4"	PIPE UNDERDRAIN REMOVAL
				SQ YD	SQ YD	TON	TON	FOOT	FOOT	FOOT
		I-155 NB								
STA	339+57.5 TO	341+61.8	OUTSIDE	227.0		90.8	6.1	204.3	204.3	204.3
STA	339+57.5 TO	341+61.8	INSIDE	136.2		54.5	6.1	204.3	204.3	204.3
STA	341+61.8 TO	343+10.0	OUTSIDE	164.7		65.9	4.4	148.2	148.2	148.2
STA	341+61.8 TO	343+17.0	INSIDE	103.5		41.4	4.6	155.2	155.2	155.2
STA	344+90.0 TO	346+47.8	OUTSIDE	175.3		70.1	4.7	157.8	157.8	157.8
STA	344+96.0 TO	346+47.8	INSIDE	101.2		40.5	4.5	151.8	151.8	151.8
STA	343+19.3 TO	343+31.3	OUTSIDE-STAGE 1		8.4					
STA	343+23.3 TO	343+35.3	INSIDE-STAGE 2		14.3					
STA	344+72.0 TO	344+86.0	OUTSIDE-STAGE 1		8.4					
STA	344+78.3 TO	344+90.3	INSIDE-STAGE 2		14.3					
		I-155 SB								
STA	341+74.9 TO	343+24.0	INSIDE	99.4		39.8	4.4	149.1	149.1	149.1
STA	341+74.9 TO	343+30.0	OUTSIDE	172.3		68.9	4.6	155.1	155.1	155.1
STA	345+03.0 TO	346+60.8	INSIDE	105.2		42.1	4.7	157.8	157.8	157.8
STA	345+09.0 TO	346+60.8	OUTSIDE	168.7		67.5	4.5	151.8	151.8	151.8
STA	346+60.8 TO	348+59.5	INSIDE	132.5		53.0	5.9	198.7	198.7	198.7
STA	346+60.8 TO	348+59.5	OUTSIDE	220.8		88.3	5.9	198.7	198.7	198.7
STA	343+36.4 TO	343+48.4	OUTSIDE-STAGE 1		14.3					
STA	343+32.4 TO	343+44.4	INSIDE-STAGE 2		8.4					
STA	344+87.4 TO	344+99.4	INSIDE-STAGE 2		8.4					
STA	344+83.3 TO	344+95.4	OUTSIDE-STAGE 1		14.3					
		TOTAL		1806.7	90.8	723	60	2032.8	2032.8	2032.8

	SHOULDER DRAIN SCHEDULE									
	LOCATION				54262712	60100945	61000335	61000225		
			LOCATION METAL FLARED END SECTIONS, 12"		TYPE G INLET BOX, STANDARD 610001	TYPE F INLET BOX, STANDARD 610001				
			EACH	FOOT	EACH	EACH				
STA	343+13	RT	1	25		1				
STA	343+21.6	RT	1	25	1					
STA	343+28.5	LT	1	25	1					
STA	343+32	LT	1	25		1				
STA	344+85	RT	1	25		1				
STA	344+91	RT	1	25	1					
STA	344+98	LT	1	25	1					
STA	345+06	LT	1	25		1				
	TOTAL		8	200	4	4				

TEMPORARY RAMP	SCHEDULE
	40600990
LOCATION	TEMPORARY RAMP
	SQ YD
SN 054-0076	31.1
SN 054-0077	31.1
TOTAL	62

USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0053 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/20/2019	DATE -	REVISED -

STATE (	F ILLINOIS
DEPARTMENT OI	TRANSPORTATION

						F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	
	SCHEDULE OF QUANTITIES					155	(54-10)BRR,BDR	LOGAN	46	8
								CONTRACT	NO. 72	2K76
SCALE: N/A	SHEET 1	OF 3	SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FED.	AID PROJECT		

	HMA SCHEDULE									
					40600290	40604162				
	L	-OCATI	ON	BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HMA SURFACE COURSE. IL 9.5 MIX"D", N70					
					POUND	TON				
		NB								
STA	339+57.5	TO	341+96.8	OUTSIDE	179.5	29.8				
STA	339+57.5	TO	341+96.8	INSIDE	107.7	17.9				
STA	341+61.8	TO	343+32.3		204.5	44.5				
STA	341+61.8	TO	343+10.0	OUTSIDE	148.2	34.6				
STA	341+61.8	TO	343+17.0	INSIDE	93.1	36.2				
STA	344+74.0	TO	346+47.8		208.6	18.9				
STA	344+90.0	TO	346+47.8	OUTSIDE	157.8	36.8				
STA	344+96.0	TO	346+47.8	INSIDE	91.1	35.4				
		SB								
STA	341+74.9	TO	343+45.5		307.1	34.5				
STA	341+74.9	TO	343+24.0	INSIDE	111.8	48.7				
STA	341+74.9	TO	343+30.0	OUTSIDE	193.9	50.7				
STA	344+87.2	TO	346+60.8		208.3	18.9				
STA	345+03.0	TO	346+60.8	INSIDE	94.7	36.8				
STA	345+09.0	TO	346+60.8	OUTSIDE	151.8	35.4				
STA	346+25.8	TO	348+59.5	INSIDE	105.2	29.1				
STA	346+25.8	TO	348+59.5	OUTSIDE	175.3	29.1				
		TOTA	L		2538.5	537.3				

				PAVE	MENT REMO	VAL SCHEDULE		
					40600982	44000155	X4404260	Z0001495
		LOCA	ATION		HMA SURFACE REMOVAL- BUTT JOINT	HMA SURFACE REMOVAL, 1 1/2"	PAVED SHOULDER REMOVAL (SPECIAL)	BRIDGE APPROACH SHOULDER REMOVAL
					SQ YD	SQ YD	SQ YD	SQ YD
		I-15	5 NB					
STA	339+57.5	ТО	343+10.0	OUTSIDE			391.7	
STA	339+57.5	ТО	343+17.0	INSIDE			239.7	
STA	341+61.8	ТО	342+31.8		186.7			
STA	343+19.3	ТО	343+31.3	OUTSIDE				8.4
STA	343+23.3	ТО	343+35.3	INSIDE				14.3
STA	344+72.0	ТО	344+86.0	OUTSIDE				8.4
STA	344+78.3	TO	344+90.3	INSIDE				14.3
STA	344+86.0	ТО	346+47.8	OUTSIDE			179.8	
STA	344+90.0	TO	346+47.8	INSIDE			105.2	
STA	345+77.8	TO	346+47.8		186.7			
		I-15	5 SB					
STA	341+74.9	TO	342+44.9		186.7			
STA	341+74.9	TO	343+24.0	INSIDE			99.4	
STA	341+74.9	TO	343+30.0	OUTSIDE			172.3	
STA	342+44.9	TO	343+44.9			266.7		
STA	343+36.4	ТО	343+48.4	OUTSIDE				14.3
STA	343+32.4	TO	343+44.4	INSIDE				8.4
STA	344+87.4	ТО	344+99.4	INSIDE				8.4
STA	344+83.3	ТО	344+95.4	OUTSIDE				14.3
STA	345+03.0	ТО	348+59.5	INSIDE			237.7	
STA	345+09.0	ТО	348+59.5	OUTSIDE			389.4	
STA	345+90.8	ТО	346+60.8		186.7			
		ТО	TAL		746.7	266.7	1815.2	90.8

					GUAR	DRAIL SCHEI	DULE			
					6300001	63100085	63100167	63200310	7250100	78200005
		LOCA	TION		STEEL PLATE GUARDRAIL TYPE A, 6' POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER- DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
					FOOT	EACH	EACH	FOOT	EACH	EACH
I-155 NB										
STA	339+82.5	TO	343+20	(OUTSIDE)	250	1	1		1	5
STA	339+85	TO	343+25	(OUTSIDE)				340		
STA	339+86.5	TO	343+24	(INSIDE)	250	1	1		1	5
STA	339+93	TO	343+34	(INSIDE)				341		
		I-15!	5 SB							
STA	344+97	TO	348+34.5	(OUTSIDE)	250	1	1		1	5
STA	344+97	TO	348+30	(OUTSIDE)				333		
STA	344+92	TO	348+29.5	(INSIDE)	250	1	1		1	5
STA	344+92	TO	348+30	(INSIDE)				338		
		TO	ΓAL		1000.0	4	4	1352	4	20

TEMPORARY CONCRETE BARRIER								
	70400100	70400200						
ACTIVITY/ STAGE	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER						
	FOOT	FOOT						
SN 054-0076 STAGE 1	375							
SN 054-0077 STAGE 1	375							
SN 054-0076 STAGE 2		375						
SN 054-0077 STAGE 2		375						
TOTAL	750	750						

USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0237 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/20/2019	DATE -	REVISED -

SCALE: N/A

						F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCHED	ULE	OF QUA	ANTITIES		155	(54-10)BRR,BDR	LOGAN	46	9
								CONTRACT	NO. 72	2K76
SHEET 2	OF	3	SHEETS	STA. N/A	TO STA. N/A		ILLINOIS FED. A	ID PROJECT		

				PAVE	MENT MARKII	NGS SCHEDUL	E	
				70300100	70300150	78009005	X0327980	
	LC	CATION		SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	PAVEMENT MARKING REMOVAL - WATER BLASTING	NOTES
				FOOT	SQ FT	FOOT	SQ FT	
	I-	155 NB					1	
STA	326+40.0	TO	346+47.8	80.3	26.8			EDGE LINE STAGE 2 NB
STA	326+40.0	TO	346+47.8	80.3	26.8			EDGE LINE STAGE 1 NB
STA	339+57.5	TO	346+47.8				71.9	CL SKIP DASH NB
STA	339+57.5	TO	346+47.8			172.6		FINAL CENTERLINE NB
STA	339+57.5	TO	346+47.8				287.6	EDGE LINE (OUTSIDE) NB
STA							287.6	EDGE LINE (INSIDE) NB
STA	A 339+57.5 TO 346+47.8				690.3		FINAL EDGE LINE (WHITE) NB	
STA	339+57.5	TO	346+47.8			690.3		FINAL EDGE LINE (YELLOW) NB
STA	341+61.8	TO	343+31.8	17.0	5.7			CL SHORT TERM
STA	344+77.8	TO	346+47.8	17.0	5.7			CL SHORT TERM
	I-	155 SB						
STA	341+74.9	TO	348+59.5				285.3	EDGE LINE (OUTSIDE) SB
STA	341+74.9	TO	348+59.5			684.6		FINAL EDGE LINE (WHITE) SB
STA	341+74.9	TO	362+75.0	84.0	28.0			EDGE LINE STAGE 1 SB
STA	341+74.9	TO	348+59.5			684.6		FINAL EDGE LINE (YELLOW) SB
STA	341+74.9	TO	348+59.5				71.3	CL SKIP DASH SB
STA	341+74.9	ТО	348+59.5			171.2		FINAL CENTERLINE SB
STA	341+74.9	TO	362+41.0	82.6	27.5			EDGE LINE STAGE 2 SB
STA	TA 341+74.9 TO 348+59.5						285.3	EDGE LINE (INSIDE) SB
STA	341+74.9	TO	343+44.9	17.0	5.7			CL SHORT TERM
STA	344+90.8	TO	346+60.8	17.0	5.7			CL SHORT TERM
	-	TOTAL		361.3	120.4	3093.5	1289.1	

				DRAINAGI	E SCHEDULE		
					60100060	60108100	60108104
		L	OCATION		CONCRETE HEADWALLS FOR PIPE DRAINS	PIPE UNDERDRAINS 4" (SPECIAL)	PIPE UNDERDRAINS TYPE 1, 4"
					EACH	FOOT	FOOT
		]	I-155 NB				
STA	339+57.5	ТО	339+57.5	OUTSIDE	1	20	
STA	339+57.5	ТО	339+57.5	INSIDE	1	15	
STA	339+57.5	ТО	343+10.0	OUTSIDE			352.5
STA	339+57.5	ТО	343+17.0	INSIDE			359.5
STA	344+90.0	TO	346+47.8	OUTSIDE			157.8
STA	344+96.0	ТО	346+47.8	INSIDE			151.8
STA	346+47.8	TO	346+47.8	OUTSIDE	1	20	
STA	346+47.8	ТО	346+47.8	INSIDE	1	15	
			I-155 SB				
STA	341+74.9	ТО	341+74.9	INSIDE	1	15	
STA	341+74.9	TO	341+74.9	OUTSIDE	1	20	
STA	341+74.9	ТО	343+24.0	INSIDE			149.1
STA	341+74.9	ТО	343+30.0	OUTSIDE			155.1
STA	345+03.0	ТО	348+59.5	INSIDE			356.5
STA	345+09.0	ТО	348+59.5	OUTSIDE			350.5
STA	348+59.5	ТО	348+59.5	INSIDE	1	15	
STA	348+59.5	то	348+59.5	OUTSIDE	1	20	
	·		TOTAL		8	140	2035

	R.A	ISED	REFLECTIVE I	PM SCHEDULI	E
				78100100	78300200
	LOC	CATION		RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
				EACH	EACH
	I-1	55 NB			
STA	341+61.8	TO	343+32.0	3	3
STA	344+74.0	TO	346+47.8	3	3
	I-1	55 SB			
STA	341+74.9	TO	343+47.0	3	3
STA	344+87.0	TO	346+60.8	3	3
	T	12	12		

	PIPE DRAII	N REI	MOVAL SCHEDULE
			X0323586
	LOCATION		PIPE DRAIN REMOVAL
			FOOT
STA	343+12.5	RT	144.3
STA	343+19.2	RT	30.7
STA	343+30.3	LT	41.7
STA	343+37	LT	139.9
STA	344+82.4	RT	129.7
STA	344+89	RT	41.6
STA	345+00	LT	30.7
STA	345+07.2	LT	142.2
	TOTAL		701

USER NAME = cislerad PLOT SCALE = 99.9997 ' / in. PLOT DATE = 1/16/2020

DESIGNED -

DRAWN -

CHECKED -

DATE

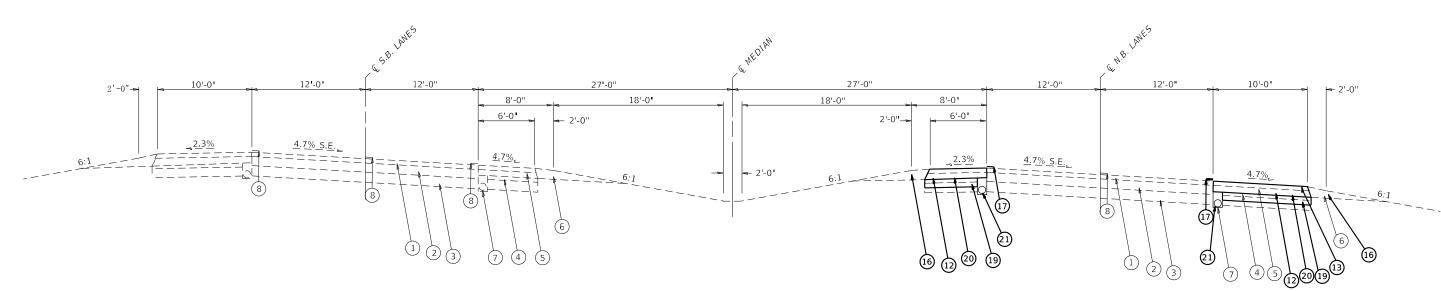
REVISED - 01/16/2020

REVISED -REVISED -

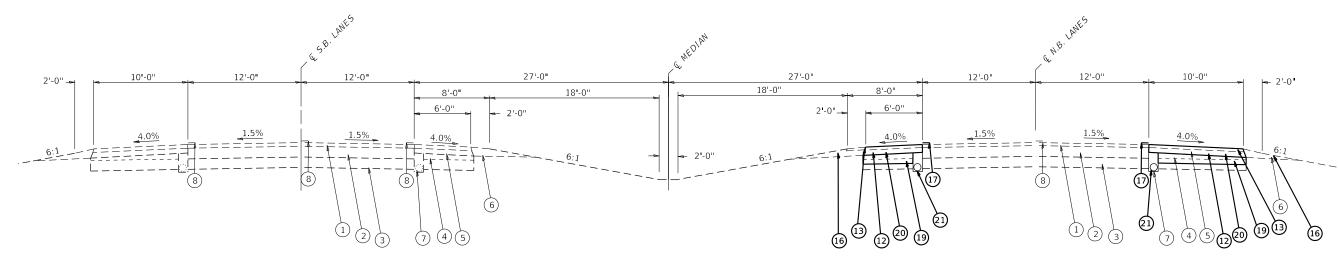
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE: N/A

		05.011			F.A.I. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHE
S	CHEDULE	OF QUA	ANTITIES		155	(54-10)	BRR,BDR		LOGAN	46	10
									CONTRACT	NO. 72	K76
CHEEL 3	OE 3	SHEETS	CTA NI/A	TO STA NIA			TI I INICIC	EED A	D DROJECT		



STA. 339+57.5 TO STA. 339+77.87



### STA. 339+77.87 TO STA. 341+96.8

### EXISTING LEGEND

- 1 EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 2"
- ① EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 1 1/2" (VARIABLE DEPTH)
- EXISTING BITUMINOUS CONCRETE BINDER COURSE, 13"
- 3 EXISTING LIME MODIFIED SOIL, 12"
- EXISTING LIME MODIFIED SOIL OR SUB-BASE GRANULAR MATERIAL, VARIABLE DEPTH 4
- (5) EXISTING BITUMINOUS AGGREGATE MIXTURE SHOULDER, 8"
- 6 EXISTING AGGREGATE SHOULDER
- EXISTING PIPE UNDERDRAINS, 4"
- EXISTING THERMOPLASTIC PAVEMENT MARKINGS, 5"
- EXISTING PCC BRIDGE APPROACH

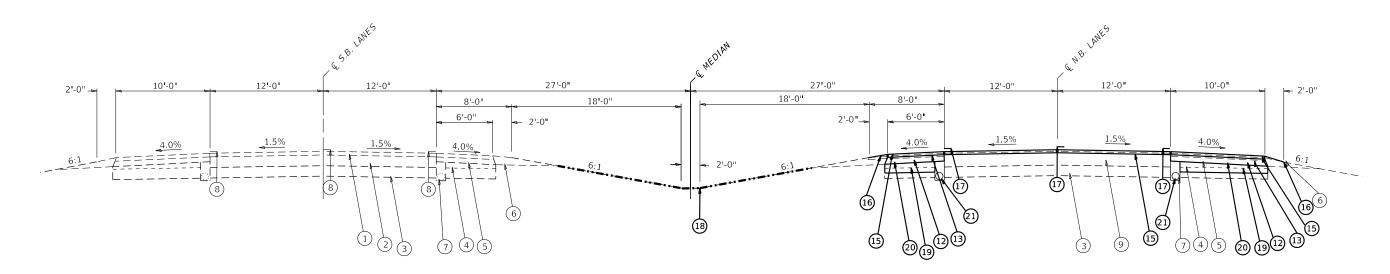
### PROPOSED LEGEND

- 11 PROPOSED HMA SURFACE REMOVAL, 1 1/2"
- 12 PROPOSED PAVED SHOULDER REMOVAL
- 13 PROPOSED HMA SURFACE COURSE, 2"
- 14) PROPOSED HMA SURFACE COURSE, 1 1/2"
- 15 PROPOSED HMA SURFACE COURSE, 1 3/4"
- 16 PROPOSED AGGREGATE SHOULDERS TYPE B (WEDGE)
- 17 PROPOSED MODIFIED URETHANE PAVEMENT MARKING LINE 5"
- (18) PROPOSED GRADING AND SHAPING DITCHES

- 19 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C, 8" NOMINAL
- (21) PIPE UNDERDRAIN TYPE 1, 4" REPLACEMENT

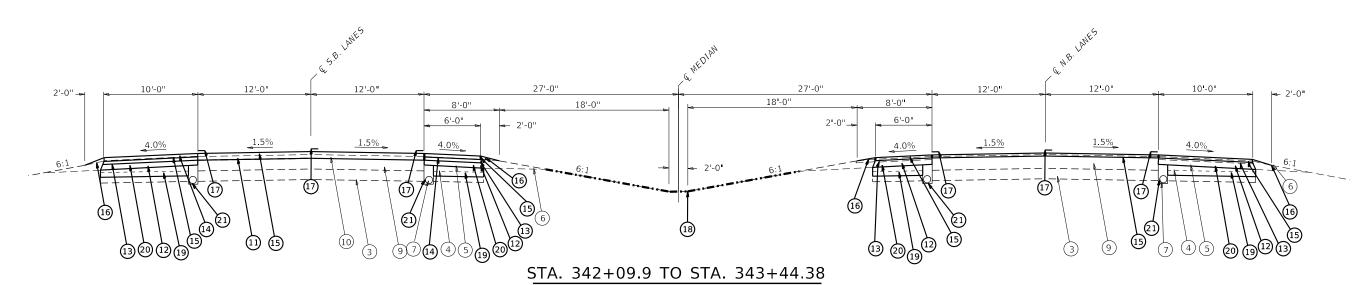
20 PROPOSED HMA BASE COURSE, 8"

USER NAME = cislerad	DESIGNED	REVISED							F.A.I.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN	REVISED	STATE OF ILLINOIS	TYPICAL SECTIONS					155	(54-10)BRR.BDR	LOGAN	46	11
PLOT SCALE = NOT TO SCALE	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION							CONTRAC	T NO. 72	2K76	
PLOT DATE = 12/20/2019	DATE	REVISED		SCALE: N/A	SHEET 1	OF 4	SHEETS STA. 339+57.5	TO STA. 341+96.8		ILLINOIS FED. A	ID PROJECT		



### STA. 341+96.8 TO STA. 342+09.9

(SEE NOTE #1)



PROPOSED LEGEND

### EXISTING LEGEND

- ① EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 2" ① EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 1 1/2" (VARIABLE DEPTH)
- 2 EXISTING BITUMINOUS CONCRETE BINDER COURSE, 13"
- 12 PROPOSED PAVED SHOULDER REMOVAL

EXISTING LIME MODIFIED SOIL, 12"

- 13 PROPOSED HMA SURFACE COURSE, 2"

EXISTING LIME MODIFIED SOIL OR SUB-BASE GRANULAR MATERIAL, VARIABLE DEPTH

21 PIPE UNDERDRAIN TYPE 1, 4" REPLACEMENT

- EXISTING BITUMINOUS AGGREGATE MIXTURE SHOULDER, 8"
- EXISTING AGGREGATE SHOULDER
- EXISTING PIPE UNDERDRAINS, 4"
- EXISTING THERMOPLASTIC PAVEMENT MARKINGS, 5"
- 9 EXISTING PCC BRIDGE APPROACH

1) PROPOSED HMA SURFACE REMOVAL, 1 1/2"

- PROPOSED HMA SURFACE COURSE, 1 1/2"
- 15) PROPOSED HMA SURFACE COURSE, 1 3/4"
- PROPOSED AGGREGATE SHOULDERS TYPE B (WEDGE)
- PROPOSED MODIFIED URETHANE PAVEMENT MARKING LINE 5"
- PROPOSED GRADING AND SHAPING DITCHES

### NOTE <u>#1</u>:

BRIDGE NORTHBOUND LANES: STA. 343+35.30 TO STA. 344+78.30

SOUTHBOUND LANES: STA. 343+44.38 TO STA. 344+87.38

NOTE #2:

PROPOSED HMA SURFACE REMOVAL, 1 1/2" IS TO EXPOSE BARE CONCRETE.

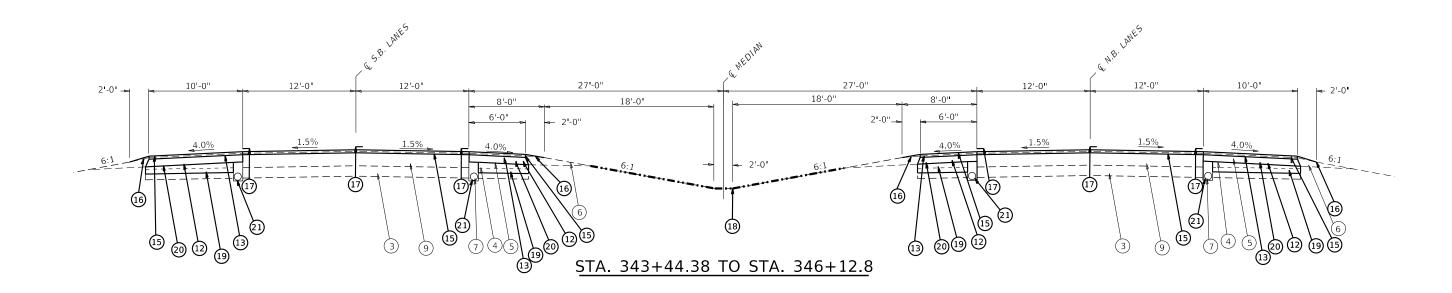
USER NAME = cislerad	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = NOT TO SCALE	CHECKED -	REVISED
PLOT DATE = 12/20/2019	DATE -	REVISED -

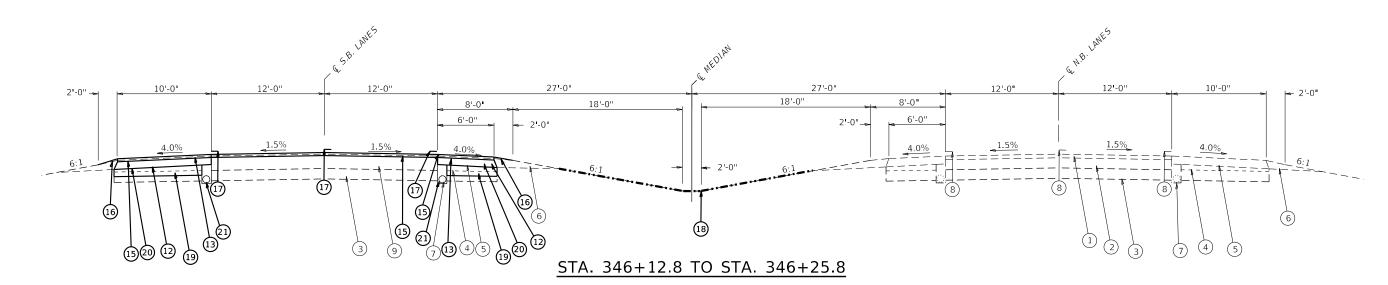
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

	<b>T</b> /DIO				F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	TYPIC/	AL SECT	IONS		155	(54-10)BRR,BDR		LOGAN	46	12
 								CONTRACT	NO. 72	2K76
0		0115570	OT	TO 071 010 1100			_			

19 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C, 8" NOMINAL

20 PROPOSED HMA BASE COURSE, 8"





### **EXISTING LEGEND**

- ① EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 2" ① EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 1 1/2" (VARIABLE DEPTH)
- EXISTING BITUMINOUS CONCRETE BINDER COURSE, 13"
- EXISTING LIME MODIFIED SOIL, 12"
- EXISTING LIME MODIFIED SOIL OR SUB-BASE GRANULAR MATERIAL, VARIABLE DEPTH
- EXISTING BITUMINOUS AGGREGATE MIXTURE SHOULDER, 8"
- EXISTING AGGREGATE SHOULDER
- EXISTING PIPE UNDERDRAINS, 4"
- EXISTING THERMOPLASTIC PAVEMENT MARKINGS, 5"
- EXISTING PCC BRIDGE APPROACH

### PROPOSED LEGEND

- 11) PROPOSED HMA SURFACE REMOVAL, 1 1/2"
- 12 PROPOSED PAVED SHOULDER REMOVAL
- (13) PROPOSED HMA SURFACE COURSE, 2"
- PROPOSED HMA SURFACE COURSE, 1 1/2"
- 15 PROPOSED HMA SURFACE COURSE, 1 3/4"
- PROPOSED AGGREGATE SHOULDERS TYPE B (WEDGE)
- PROPOSED MODIFIED URETHANE PAVEMENT MARKING LINE 5"
- (18) PROPOSED GRADING AND SHAPING DITCHES

	TYPICAL SECTIONS		F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
LINOIS TYPICAL SE ANSPORTATION		IONS	155	(54-10)BRR,BDR	LOGAN	46	13	
RANSPORTATION						CONTRACT NO. 72K76		

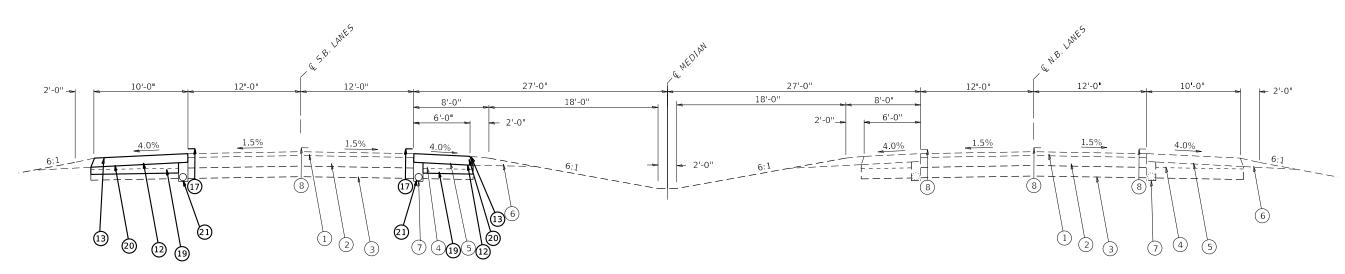
PROPOSED HMA BASE COURSE, 8"

21) PIPE UNDERDRAIN TYPE 1, 4" REPLACEMENT

19 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C, 8" NOMINAL

STATE OF ILL REVISED DRAWN CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** 

OF 4 SHEETS STA. 343+44.38 TO STA. 346+25.8



STA. 346+25.8 TO STA. 348+59.5

### EXISTING LEGEND

- 1) EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 2"
- (1) EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 1 1/2" (VARIABLE DEPTH)
- EXISTING BITUMINOUS CONCRETE BINDER COURSE, 13"
- EXISTING LIME MODIFIED SOIL, 12"
- EXISTING LIME MODIFIED SOIL OR SUB-BASE GRANULAR MATERIAL, VARIABLE DEPTH
- EXISTING BITUMINOUS AGGREGATE MIXTURE SHOULDER, 8"
- EXISTING AGGREGATE SHOULDER
- EXISTING PIPE UNDERDRAINS, 4"
- EXISTING THERMOPLASTIC PAVEMENT MARKINGS, 5"
- EXISTING PCC BRIDGE APPROACH

### PROPOSED LEGEND

- 12) PROPOSED PAVED SHOULDER REMOVAL
- 13 PROPOSED HMA SURFACE COURSE, 2"
- PROPOSED HMA SURFACE COURSE, 1 1/2"
- PROPOSED HMA SURFACE COURSE, 1 3/4"
- PROPOSED AGGREGATE SHOULDERS TYPE B (WEDGE)

SCALE: N/A

11) PROPOSED HMA SURFACE REMOVAL, 1 1/2"

21) PIPE UNDERDRAIN TYPE 1, 4" REPLACEMENT

PROPOSED HMA BASE COURSE, 8"

PROPOSED MODIFIED URETHANE PAVEMENT MARKING - LINE 5"

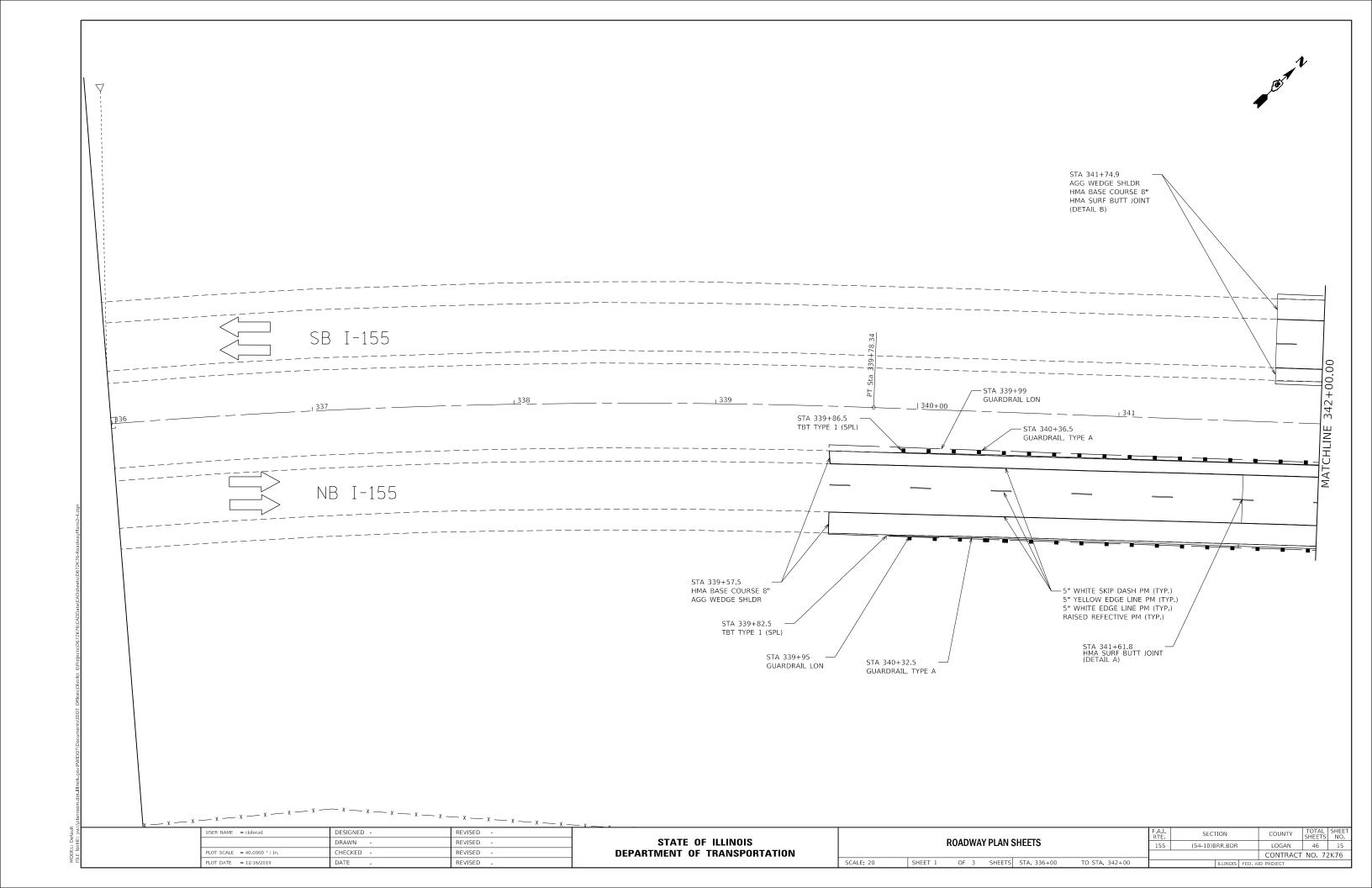
18 PROPOSED GRADING AND SHAPING DITCHES

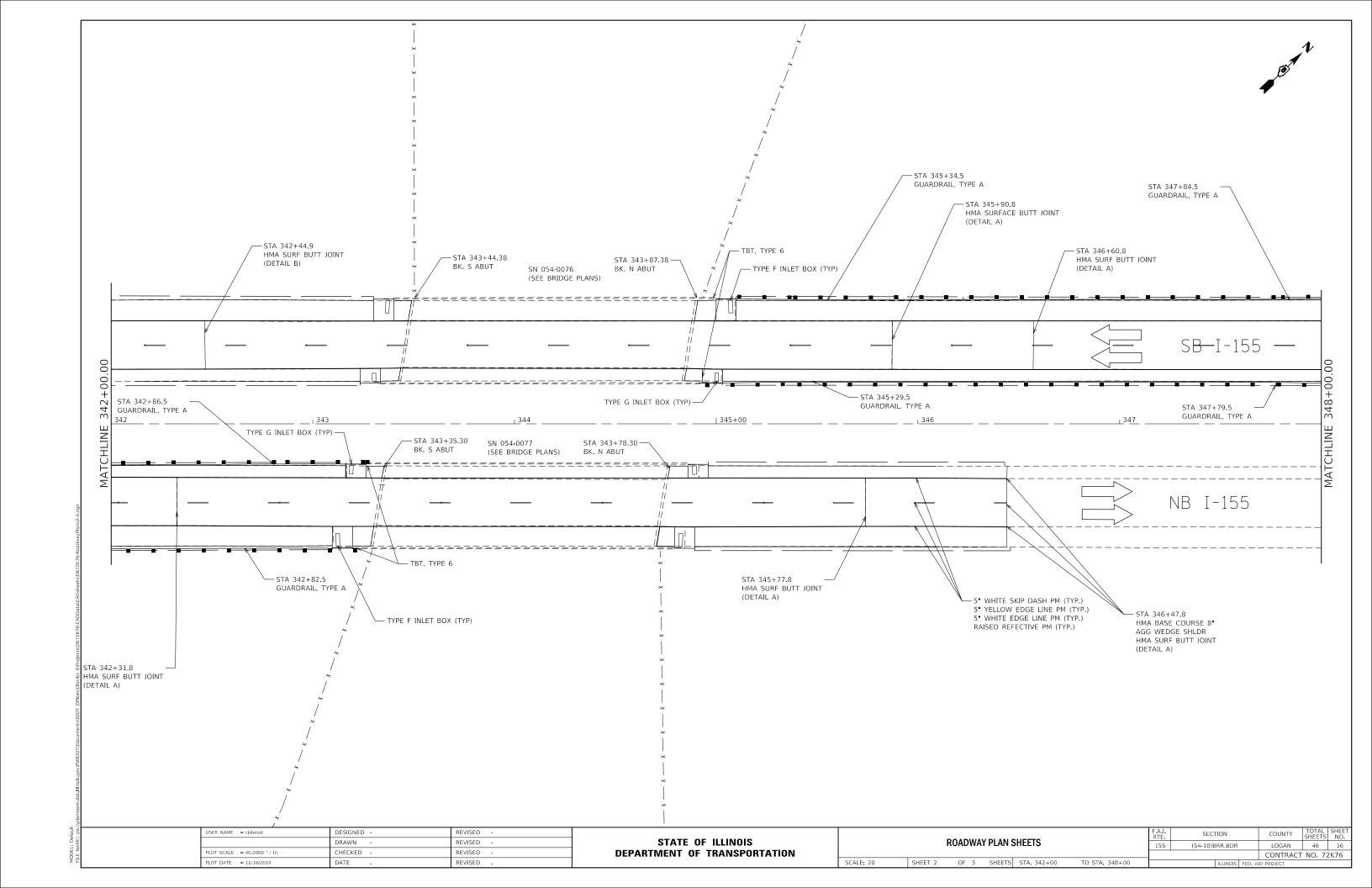
ISER NAME = cislerad DESIGNED REVISED REVISED LOT SCALE = NOT TO SCALE CHECKED REVISED LOT DATE = 12/20/2019 DATE REVISED

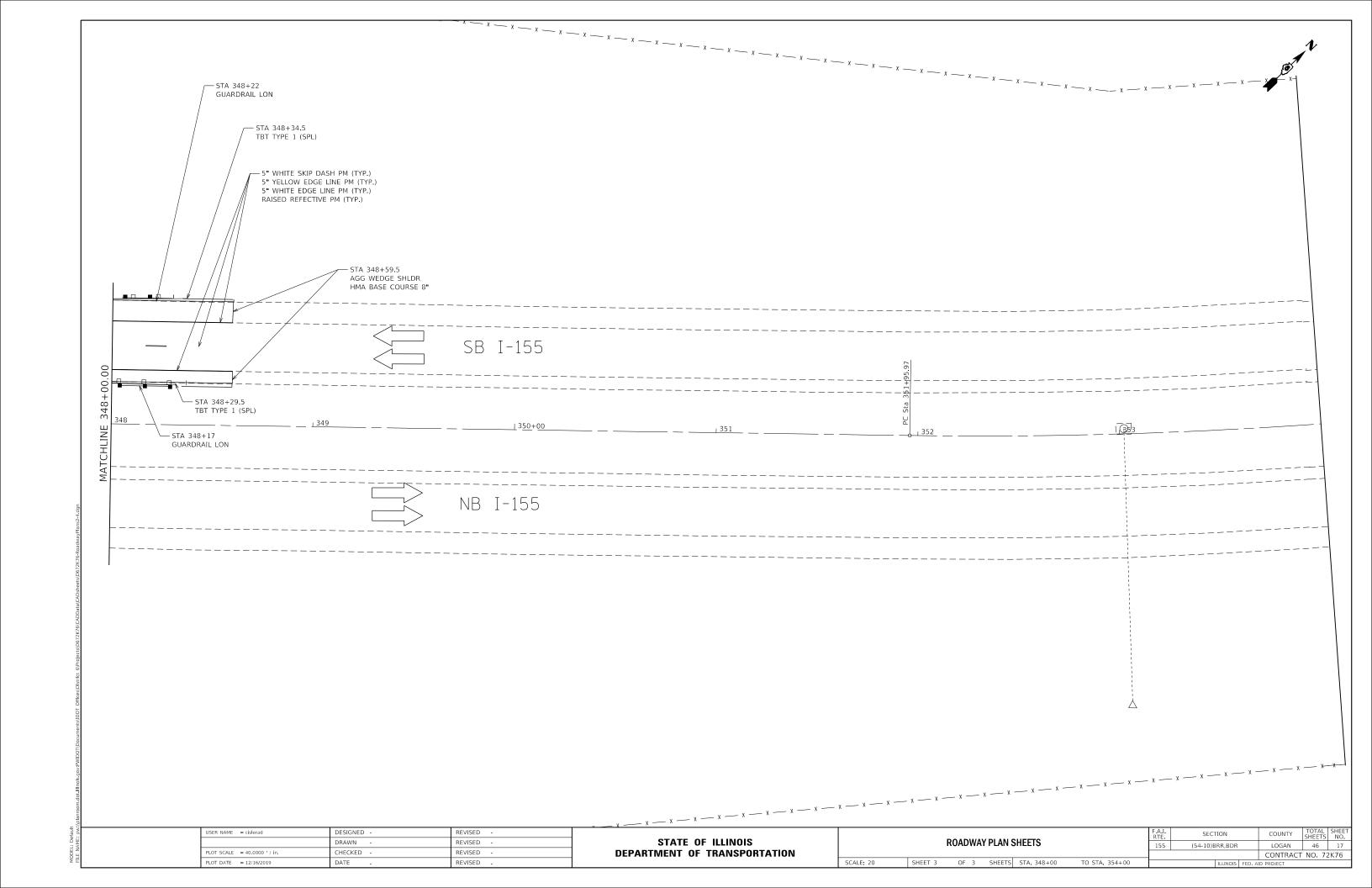
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

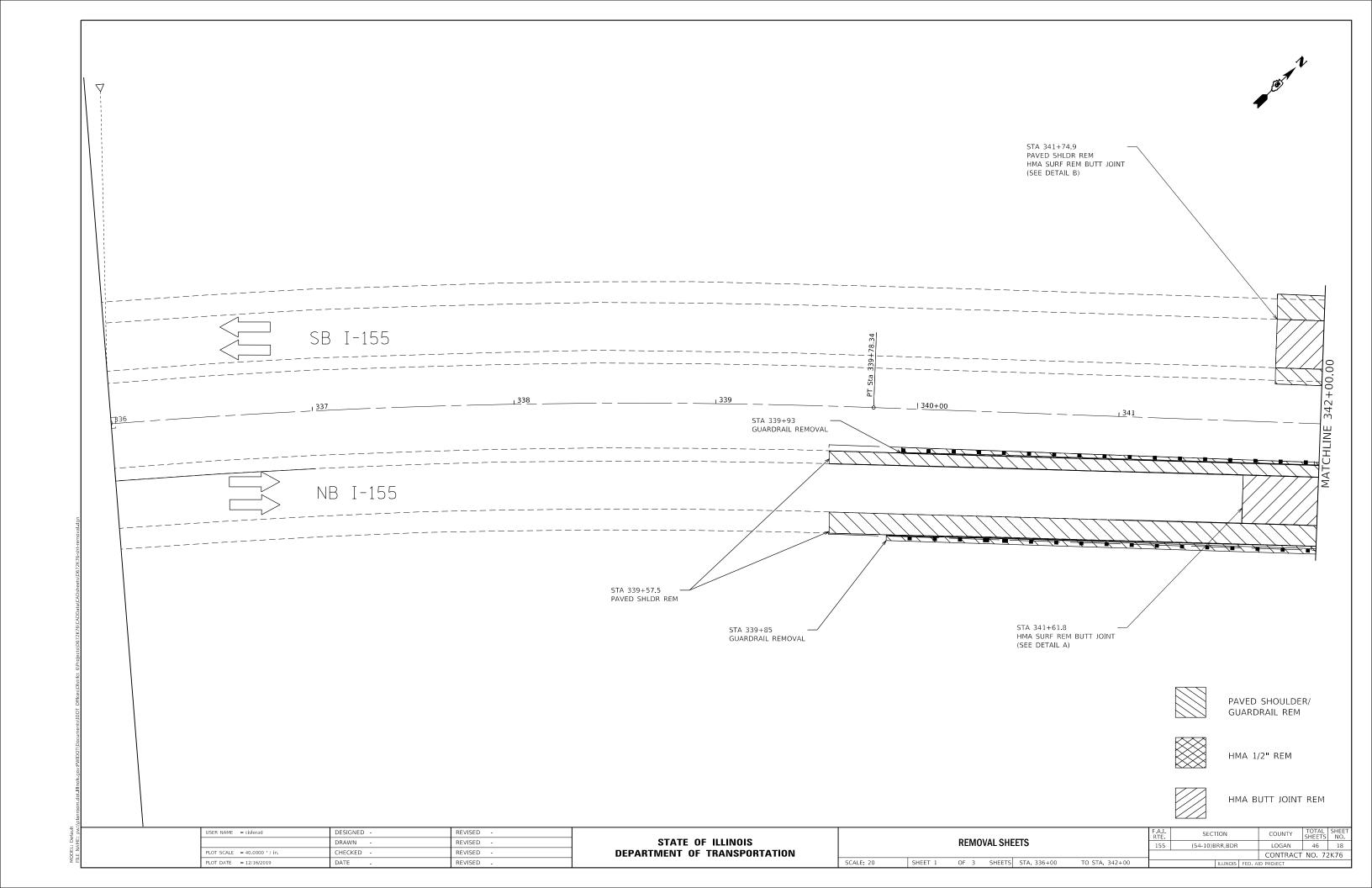
SECTION TYPICAL SECTIONS (54-10)BRR,BDR LOGAN 46 14 CONTRACT NO. 72K76 SHEET 4 OF 4 SHEETS STA. 346+25.8 TO STA, 348+59.5

(19) PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C, 8" NOMINAL

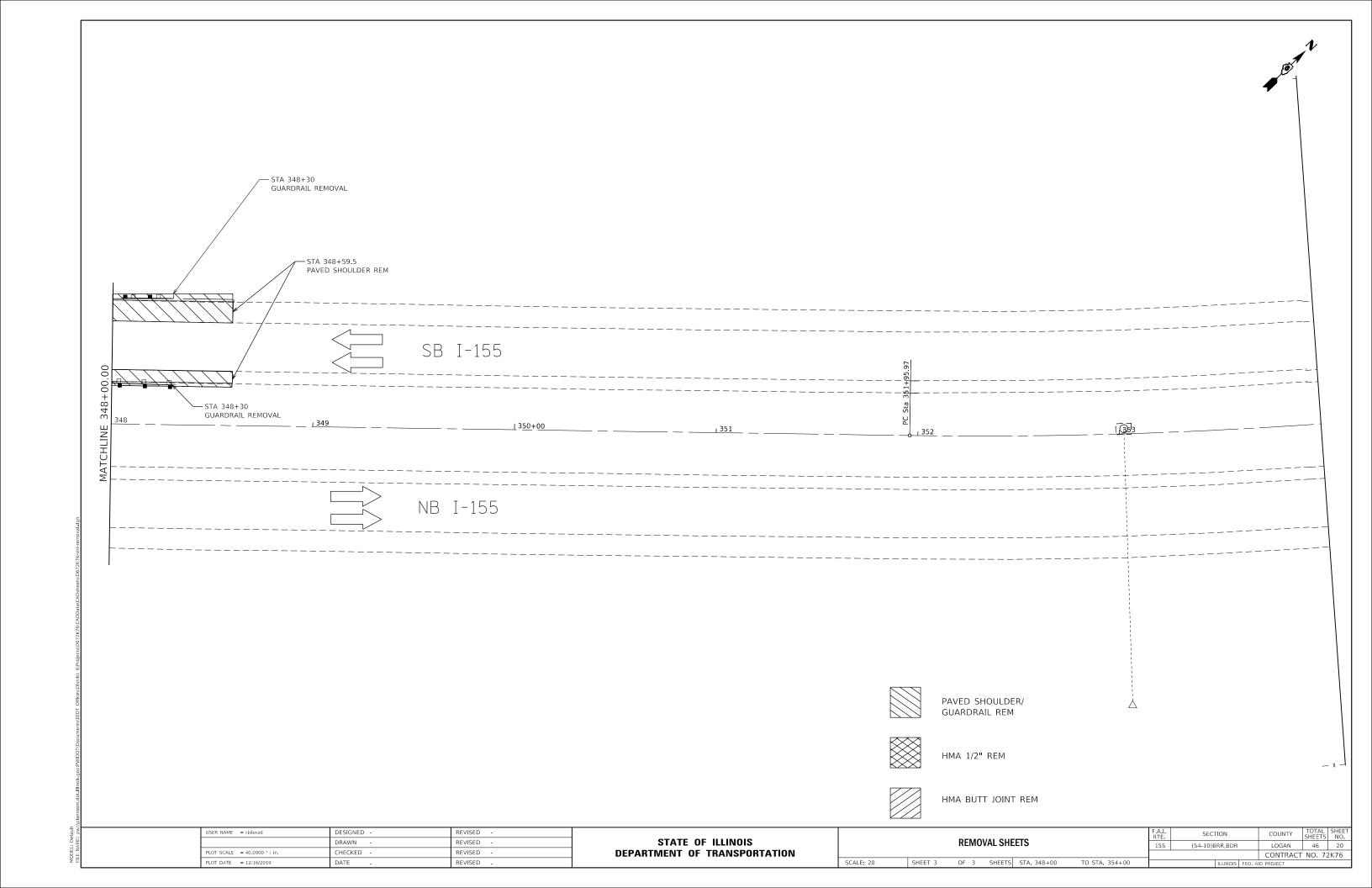


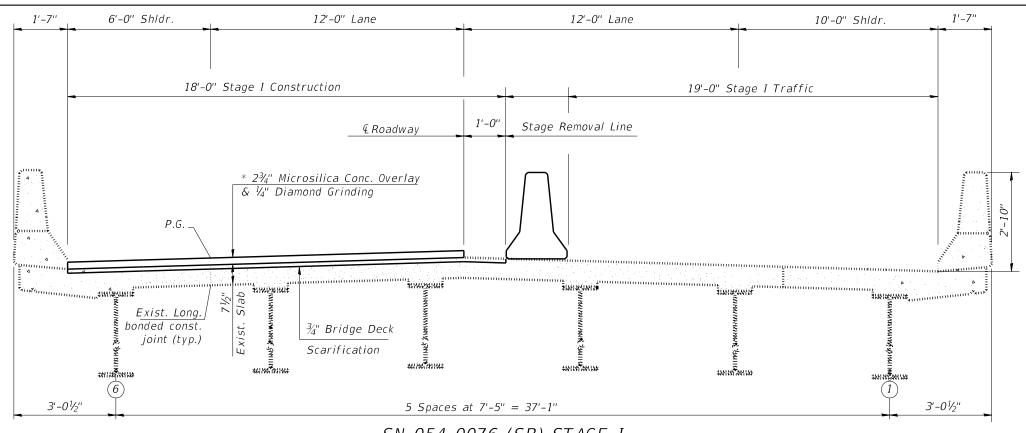






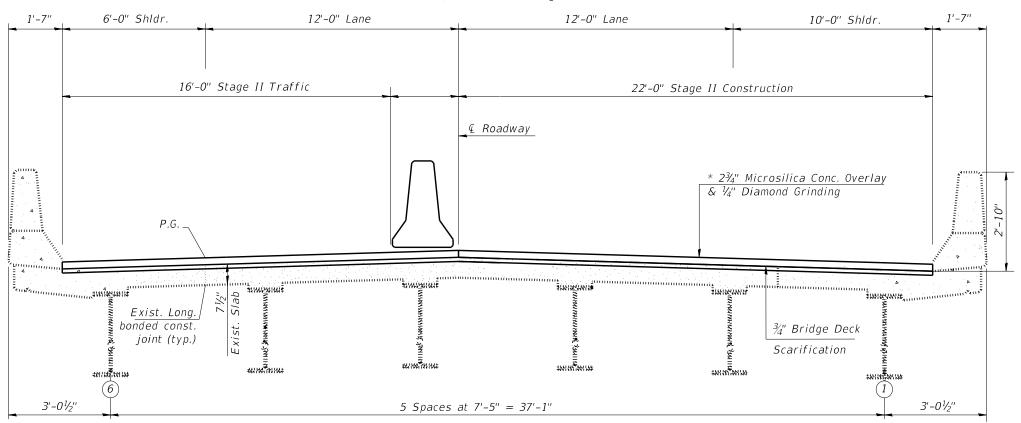
STA 345+90.8 HMA SURF REM BUTT JOINT STA 345+04.5 (SEE DETAIL A) GUARDRAIL REMOVAL STA 345+09 PAVED SHLDR REM — STA 342+44.9 HMA SURF REM, 1 1/2" HMA SURF REM BUTT JOINT (SEE DETAIL B) STA 343+30 PAVED SHLDR REM -STA 346+60.8 HMA SURF REM BUTT JOINT (SEE DETAIL A) - BRIDGE APPR SHLDR REM (TYP.) SHLDR REM (TYP.) -STA 343+44.38 STA 344+87.38 — BK. S ABUT. SN 054-0076 SB I-155 BK. N ABUT. (SEE BRIDGE PLANS) STA 343+24 342-SHOULDER REMOVAL STA 344+97 SHOULDER REMOVAL GUARDRAIL REMOVAL \_\_ <u>1 343</u>\_\_ <u> 1</u>34<u>4</u> | 345+00 HLINE STA 343+34 STA 344+90 GUARDRAIL REMOVAL PAVED SHLDR REM -STA 343+35.30 STA 344+78.30 — SN 054-0077 (SEE BRIDGE PLANS) NB I-155 BK. S ABUT. BK. N ABUT. - STA 346+47.8 PAVED SHLDR REM HMA SURF REM BUTT JOINT (SEE DETAIL A) – STA 343+25 GUARDRAIL REMOVAL - BRIDGE APPR SHLDR REM (TYP.) STA 343+10 STA 344+86 - BRIDGE APPR -STA 345+77.8 HMA SURF REM BUTT JOINT DETAIL A PAVED SHLDR REM PAVED SHLDR REM SHLDR REM (TYP.) PAVED SHOULDER/ — STA 342+31.8 HMA SURF REM BUTT JOINT GUARDRAIL REM (SEE DETAIL A) HMA 1/2" REM HMA BUTT JOINT REM JSER NAME = cislerad DESIGNED -REVISED COUNTY STATE OF ILLINOIS REMOVAL SHEETS DRAWN REVISED LOGAN 46 19 (54-10)BRR,BDR CHECKED -REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 72K76 SCALE: 20 SHEET 2 OF 3 SHEETS STA. 342+00 TO STA. 348+00 PLOT DATE = 12/16/2019 DATE





### SN 054-0076 (SB) STAGE I

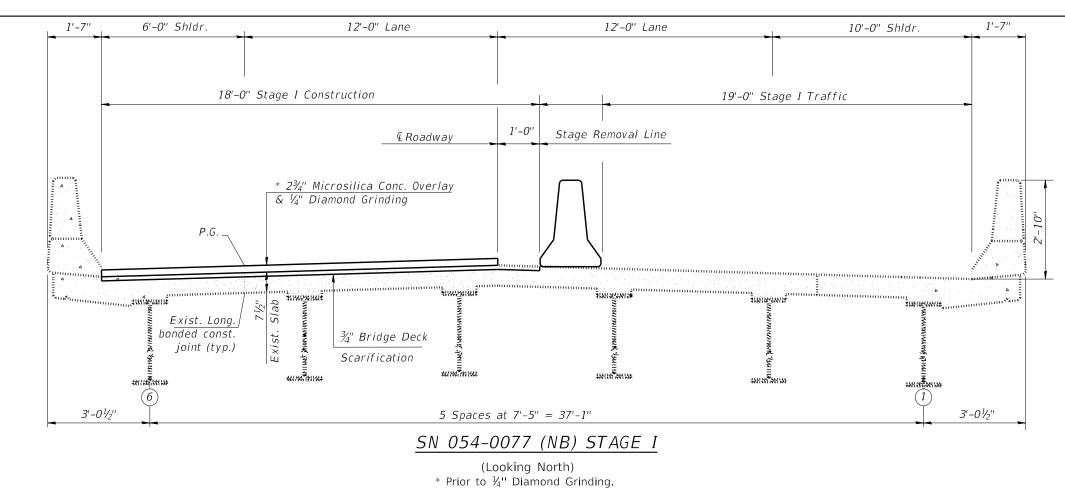
(Looking South)
\* Prior to ¼" Diamond Grinding.

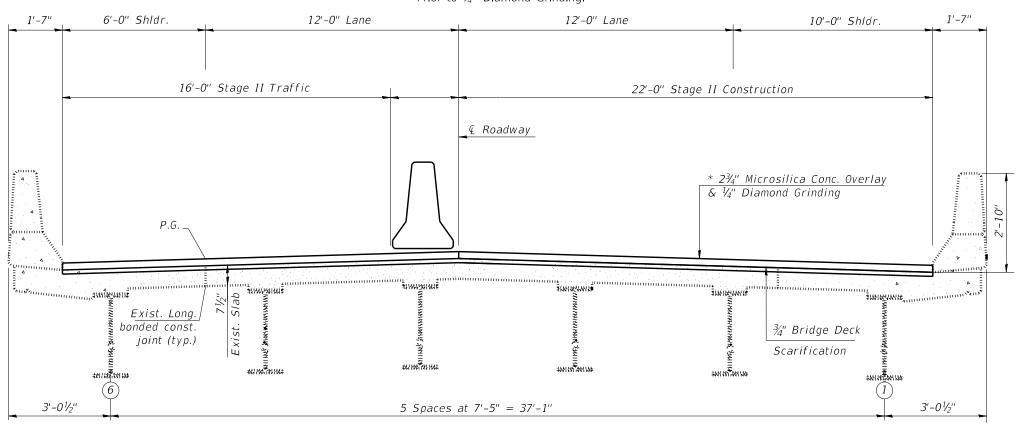


### SN 054-0076 (SB) STAGE II

(Looking South) \* Prior to  $\frac{1}{4}$ " Diamond Grinding.

USER NAME = cislerad	DESIGNED -	REVISED -			TRAFFIC CONTROL PLAN		F.A.I. RTF	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS			155	(54-10)BRR,BDR	LOGAN	46 21	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		CROSS SECTIONS 054-0076				CONTRACT	T NO. 72K76
PLOT DATE = 12/16/2019	DATE -	REVISED -		SCALE: N/A	SHEET 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

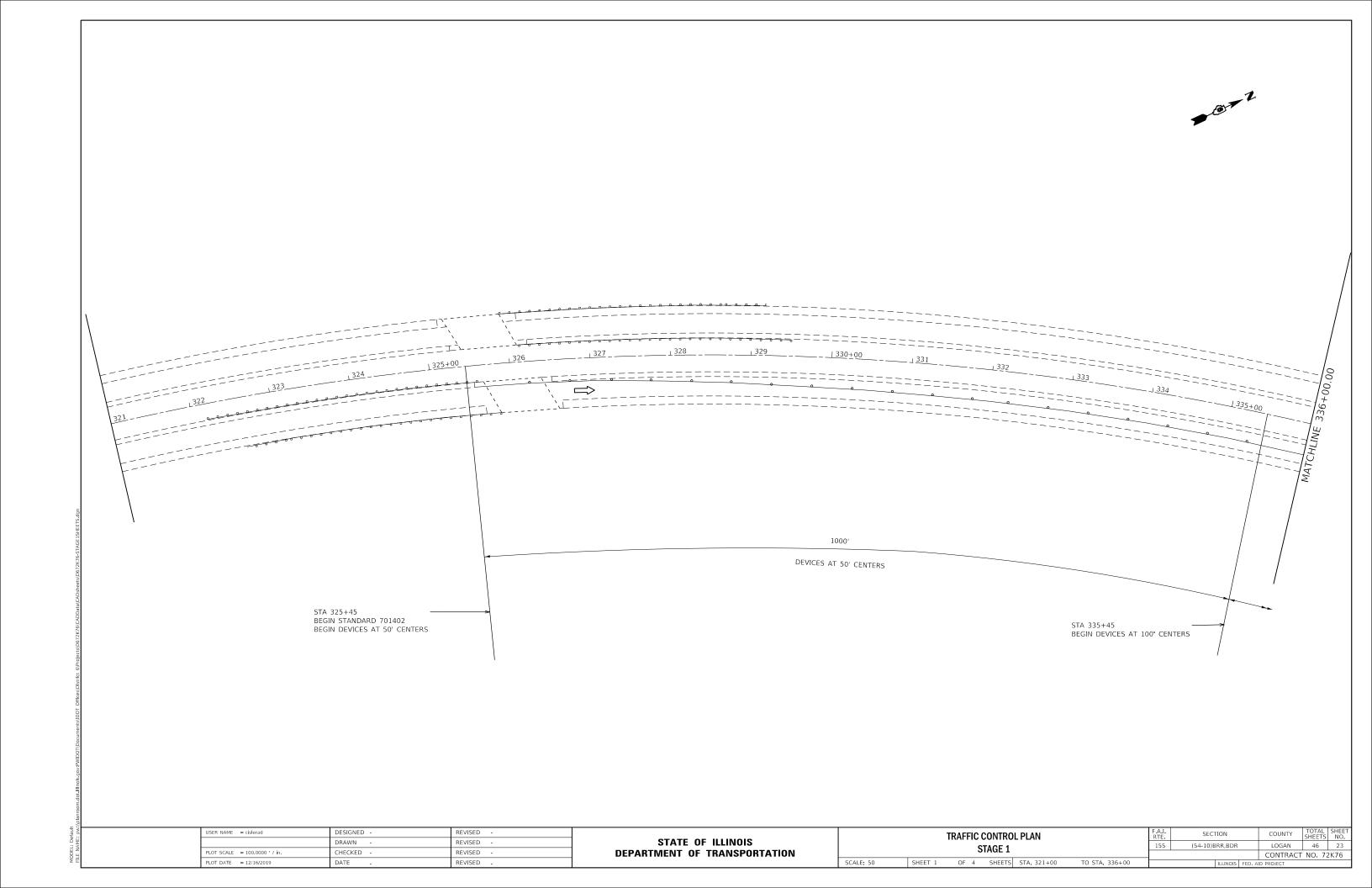




### <u>SN 054-0077 (NB) STAGE II</u>

(Looking North)  $^*$  Prior to  $^1\!\!4$ " Diamond Grinding.

USER NAME = cislerad	DESIGNED -	REVISED -			т	RAFFIC	CONTRO	ΙΡΙΔΝ		F.A.I.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS							155	(54-10)BRR.BDR	LOGAN	46	22
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		CROSS SECTIONS 054-0077				CONTRACT NO 72K76	K76				
PLOT DATE = 12/16/2019	DATE -	REVISED -		SCALE: N/A	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		
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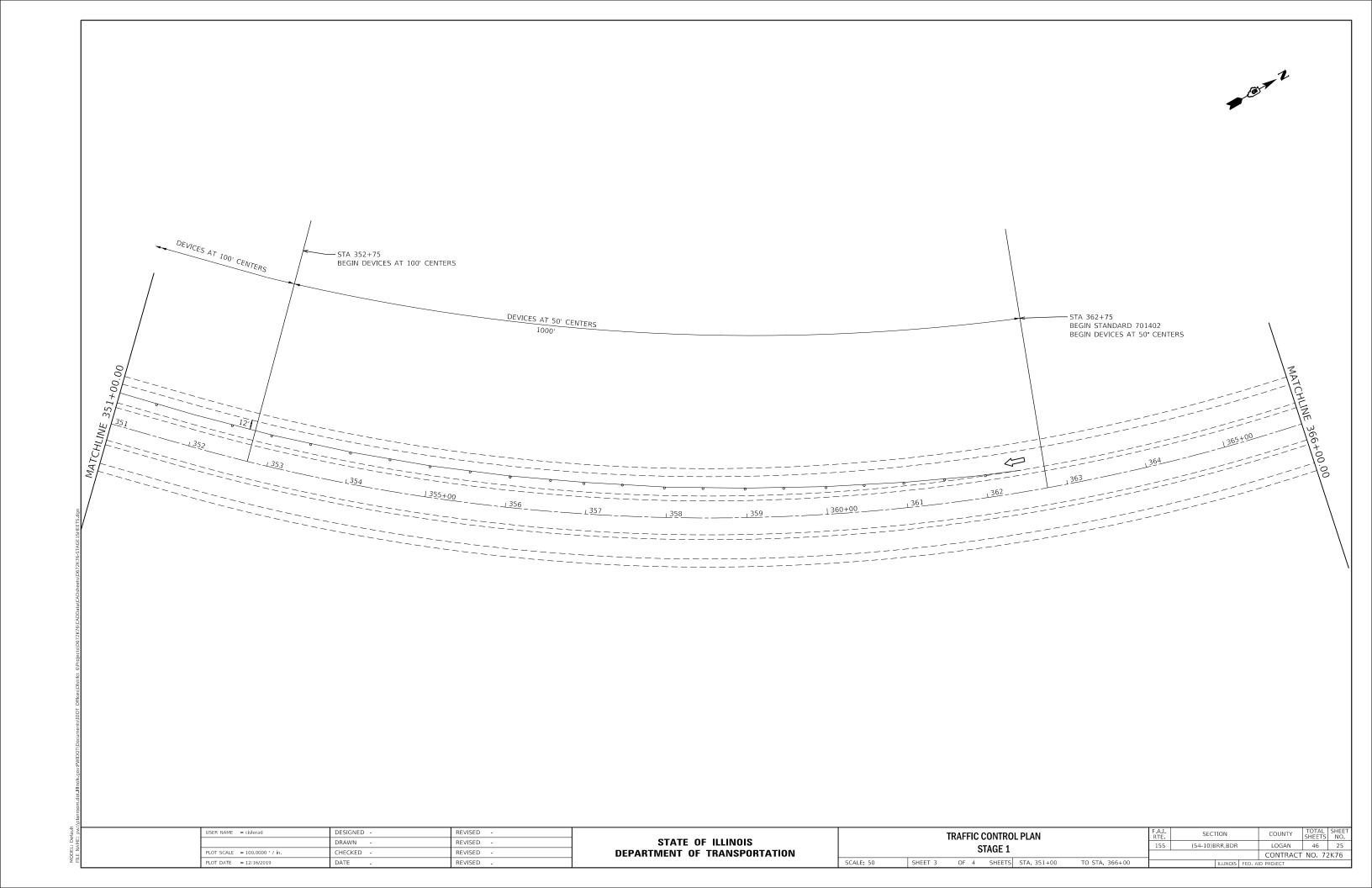
DEVICES AT 25' CENTERS DEVICES AT 100' CENTERS 210' 500' STA 345+15 -END TAPER 1:12 — STA 347+75 BEGIN DEVICES AT 25' CENTERS STA 344+90 STA 343+12-STA 346+83-BACK OF ABUTMENT END TCB BEGIN TCB <u>| 34</u>5+00 - STA 345+11 END TCB -STA 343+30 — STA 341+37 BEGIN TCB BACK OF ABUTMENT - STA 343+05 END TAPER 1:12 STA 340+45 BEGIN DEVICES AT 25' CENTERS 210' 500' DEVICES AT 25' CENTERS DEVICES AT 100' CENTERS - STA 342+55 END DEVICES AT 25' CENTERS JSER NAME = cislerad DESIGNED -REVISED -SECTION TRAFFIC CONTROL PLAN COUNTY SHEETS NO.

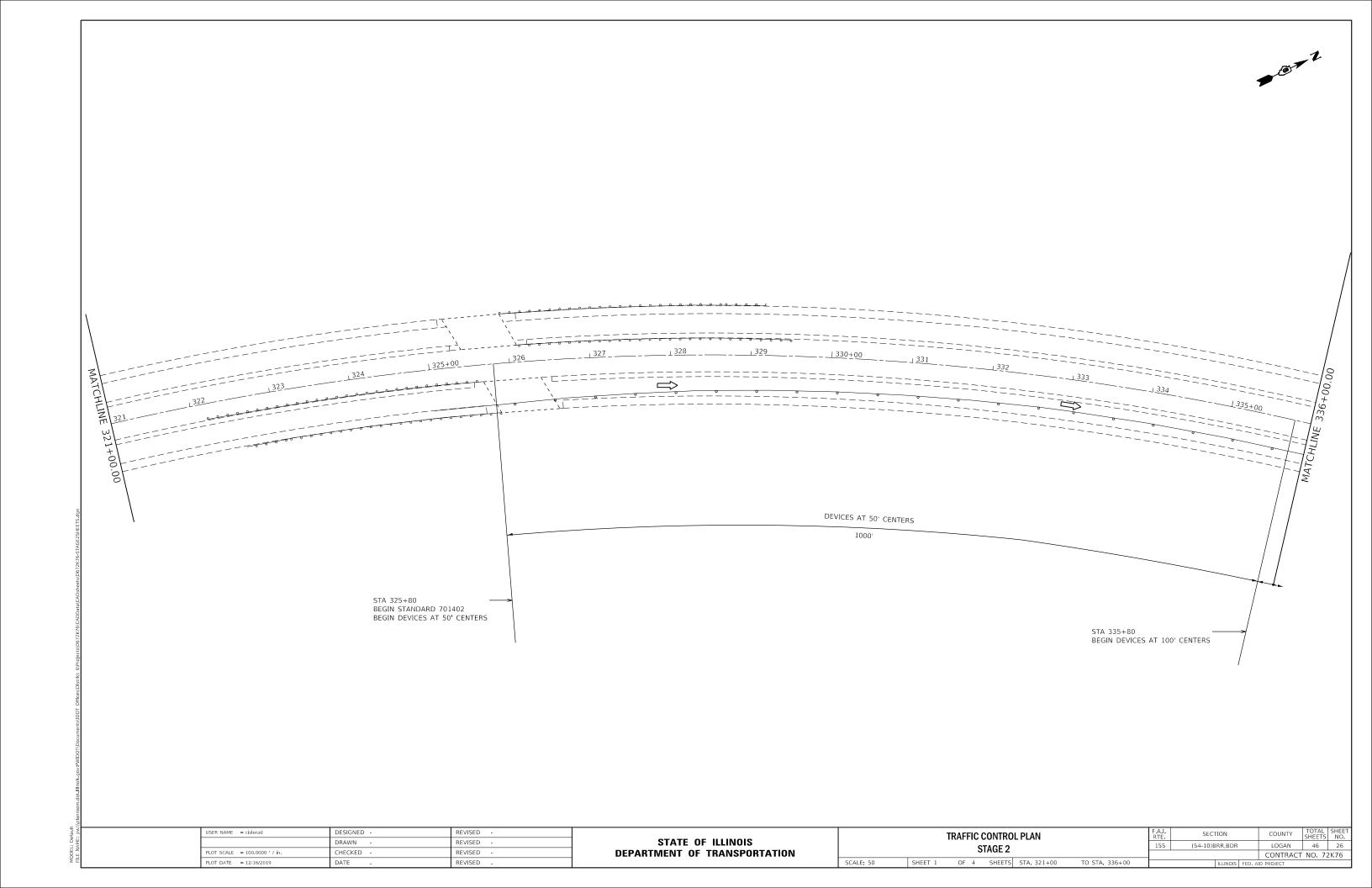
LOGAN 46 24 STATE OF ILLINOIS DRAWN REVISED -(54-10)BRR,BDR STAGE 1 **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 100.0000 / in. CHECKED -REVISED -CONTRACT NO. 72K76

SHEET 2 OF 4 SHEETS STA. 336+00

TO STA. 351+00

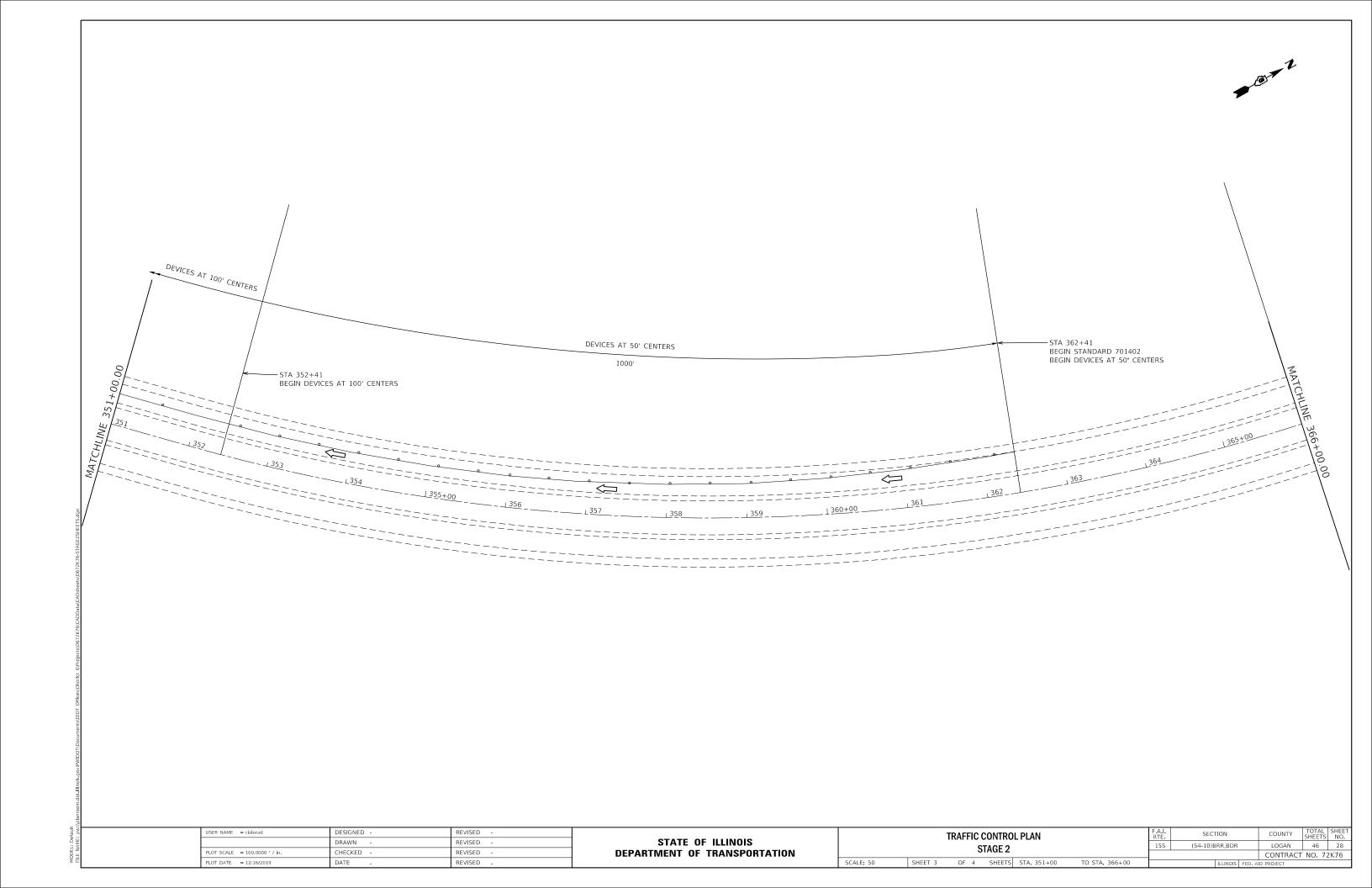
PLOT DATE = 12/16/2019

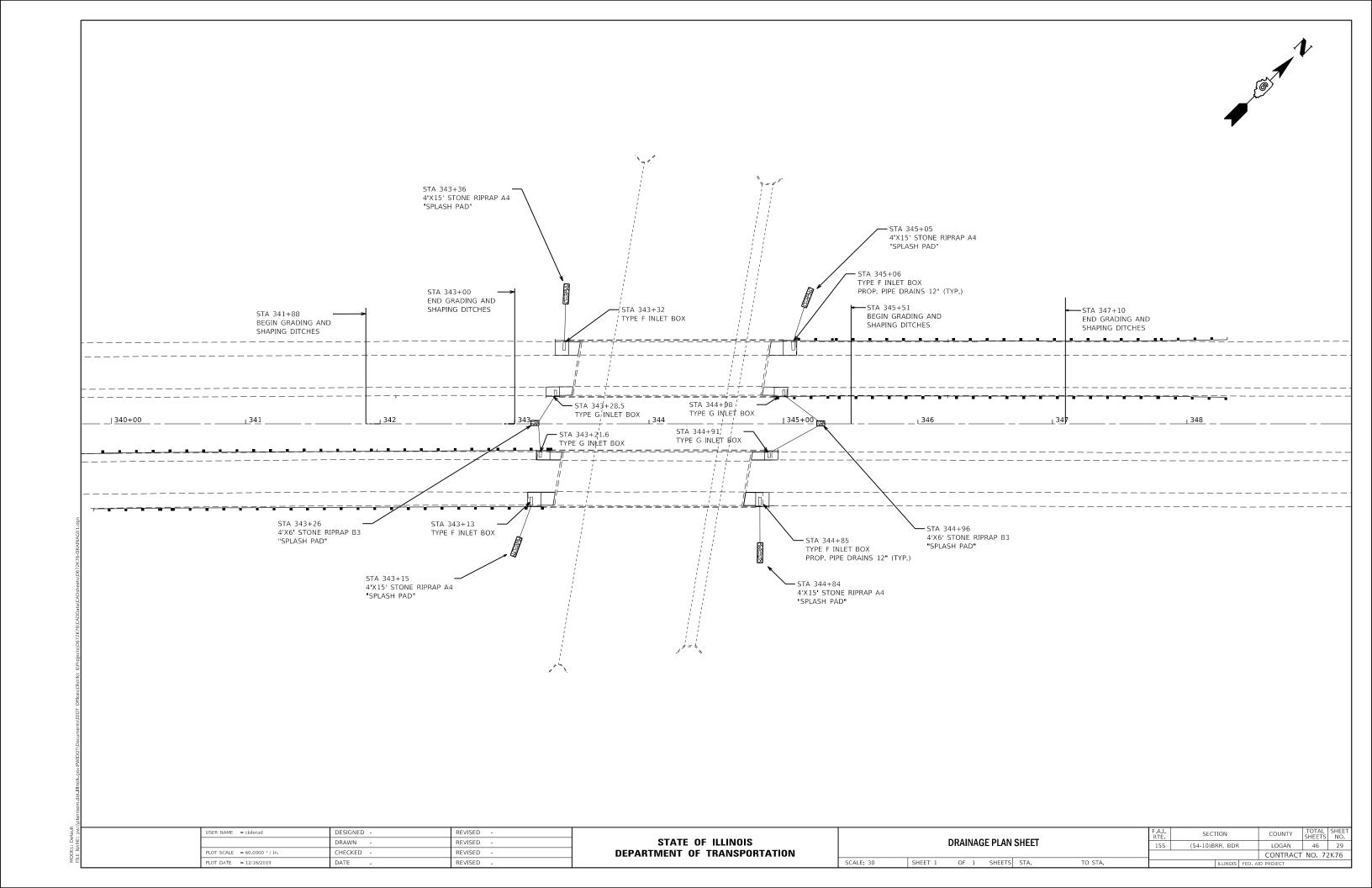


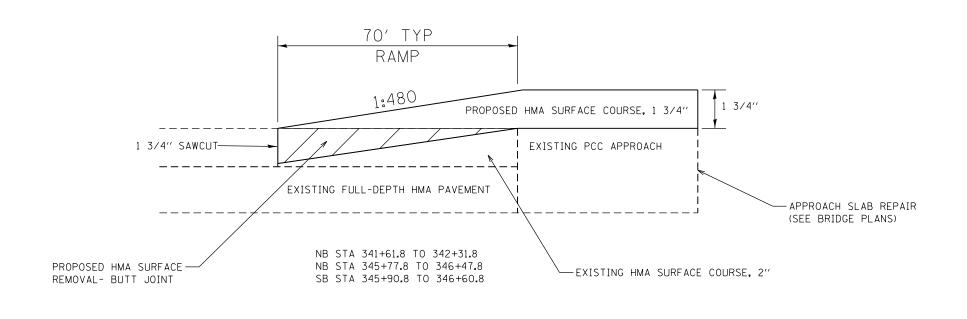


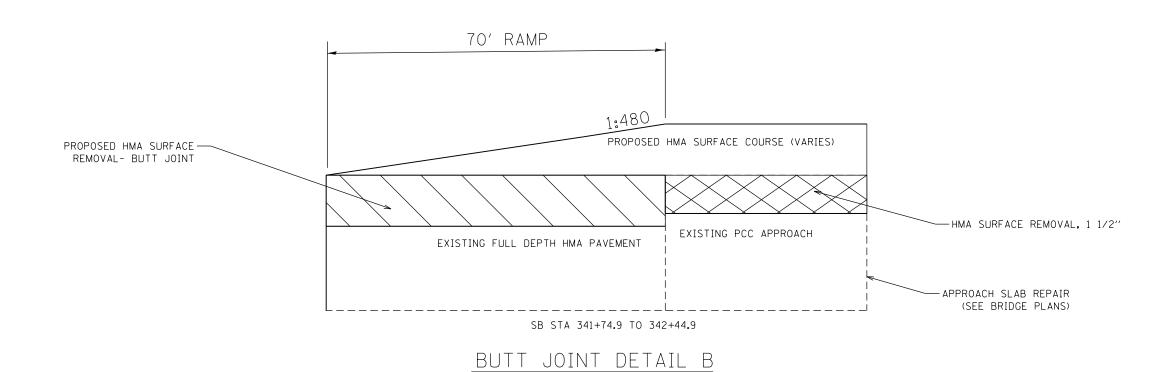
DEVICES AT 25' CENTERS DEVICES AT 100' CENTERS 210' STA 345+16 -END TAPER 1:12 - STA 347+41 BEGIN DEVICES AT 25' CENTERS STA 346+84 — BEGIN TCB STA 343+16-STA 344+91 BACK OF ABUTMENT END TCB 345+00 -STA 343+30 BACK OF ABUTMENT -STA 345+07 END TCB — STA 341+37 BEGIN TCB — STA 343+05 END TAPER 1:12 DEVICES AT 100' CENTERS DEVICES AT 25' CENTERS 500' 210' STA 340+80 BEGIN DEVICES AT 25' CENTERS JSER NAME = cislerad DESIGNED -REVISED -SECTION COUNTY SHEETS NO.

LOGAN 46 27 TRAFFIC CONTROL PLAN STATE OF ILLINOIS DRAWN REVISED -(54-10)BRR,BDR STAGE 2 **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 100.0000 / in. CHECKED -REVISED CONTRACT NO. 72K76 PLOT DATE = 12/16/2019 DATE SHEET 2 OF 4 SHEETS STA. 336+00 TO STA. 351+00









STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

SECTION

(54-10)BRR,BDR

LOGAN 46 30

CONTRACT NO. 72K76

**BUTT JOINT DETAILS** 

TO STA.

SHEET 1 OF 1 SHEETS STA.

SCALE:

JSER NAME = cislerad

PLOT SCALE = 50.0000 ' / in.

PLOT DATE = 12/16/2019

DESIGNED -

DRAWN

CHECKED -

DATE

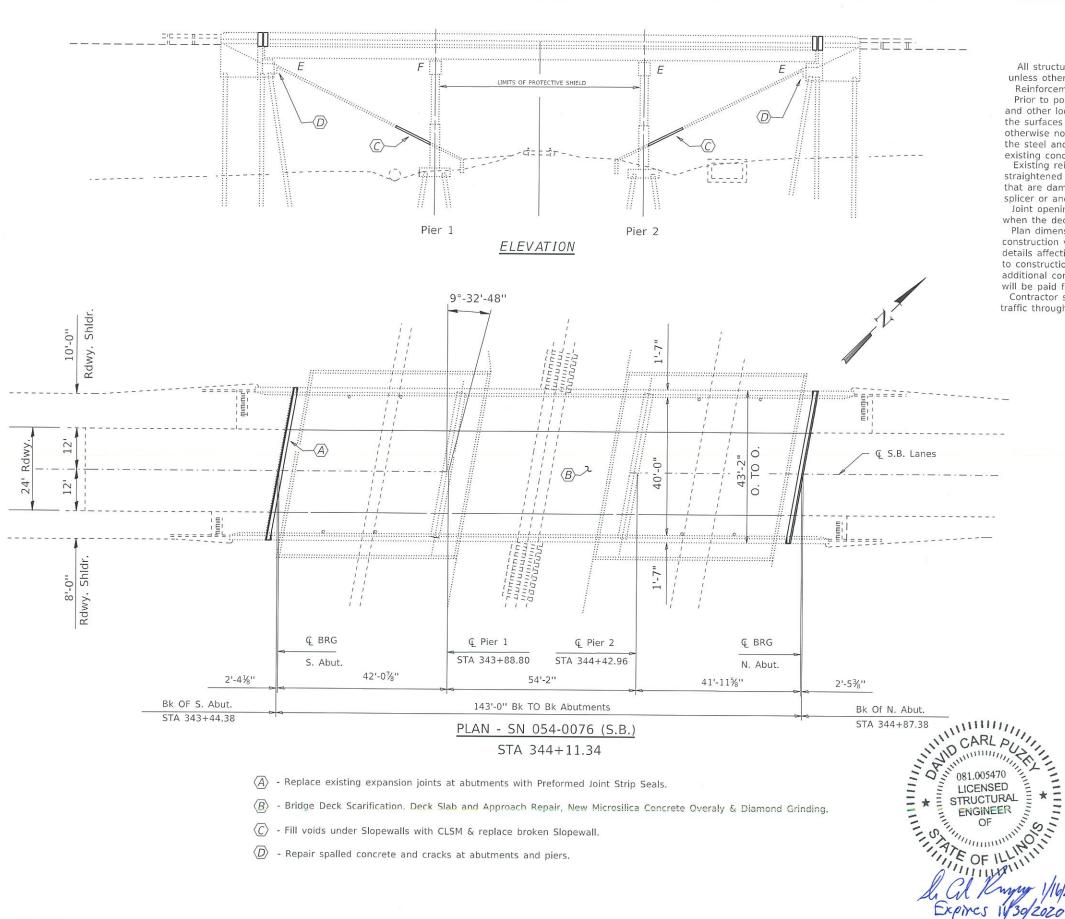
REVISED -

REVISED -

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REVISED

BUTT JOINT DETAIL A



SER NAME = edwardsjd

PLOT SCALE = 0.1667 ' / in.

LOT DATE = 1/15/2020

ARS

JDE

12/16/2019

12/16/2019

DRAWN -

CHECKED -

DATE

REVISED - 01/15/2020

REVISED -

REVISED

REVISED

### GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

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

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with 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.

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.

Contractor shall suspend Hydro-scarification activities during passing Railroad traffic through the tracks routed underneath of the bridge.

### TOTAL BILL OF MATERIAL

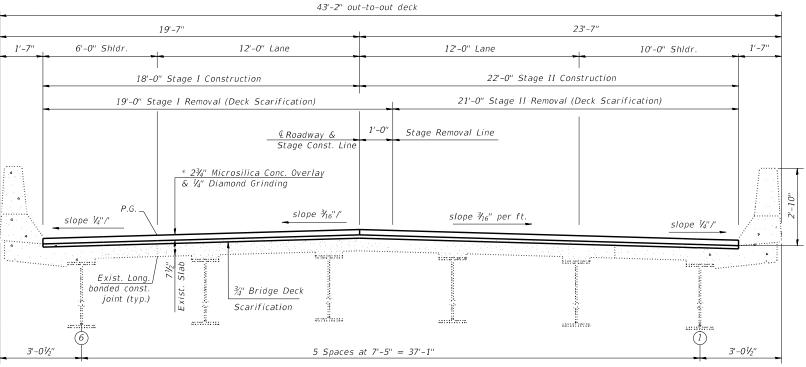
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	11.5
Concrete Superstructure	Cu. Yd.	13.5
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Yd.	601
Reinforcement Bars, Epoxy Coated	Pound	1750
Bar Splicers	Each	28
Bridge Deck Scarification 3/4"	Sq. Yd.	601
Diamond Grinding (Bridge Section)	Sq. Yd.	540.6
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	382
Preformed Joint Strip Seal	Foot	86
Concrete Sealer	Sq. Ft.	24.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	0.8
Structural Repair of Concrete (Depth=<5")	Sq. Ft.	24.0
Protective Coat	Sq. Yd.	646
Controlled Low-Strength Material	Cu. Yd.	29.3
Slope Wall Removal	Sq. Yd.	44
Slope Wall 4 inch	Sq. Yd.	44
Protective Shield	Sq. Yd.	646
Approach Slab Repair	Sq. Yd.	21.3

\* On new concrete & overlay only.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

### CROSS SECTION AT ABUTMENTS

(Looking South)
\* Prior to ½" Diamond Grinding.

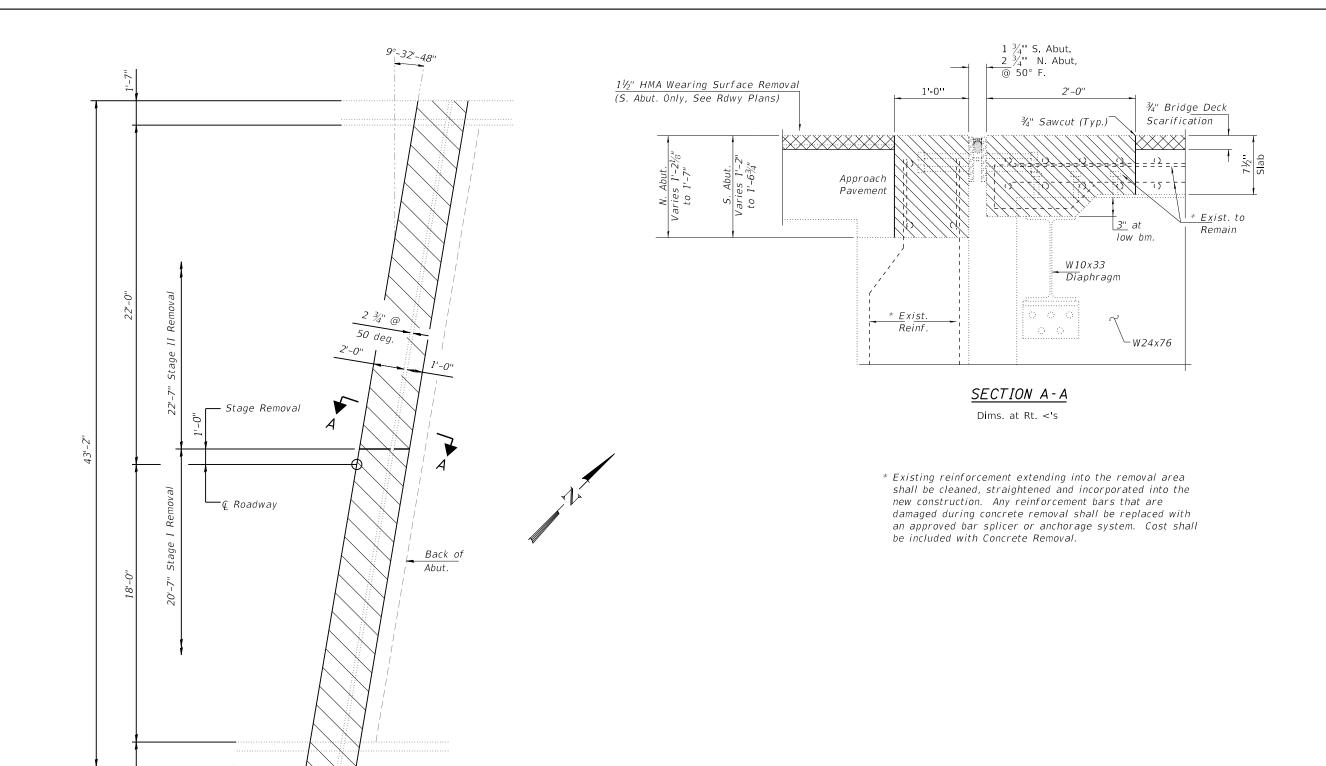


### CROSS SECTION AT MID SPANS

(Looking South) \* Prior to ¼" Diamond Grinding.

USER NAME = cislerad	DESIGNED -	REVISED -			CROSS SECTIONS & ST.	AGING DETAILS	F.A.I. RTF.	SECTION	COUNTY	TOTAL S	HEET NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS		SN 054-0076		155	(54-10) BRR, BDR	LOGAN	46	32
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		5N U54-UU/6	(S.B.)			CONTRAC	T NO. 721	K76
PLOT DATE = 12/16/2019	DATE -	REVISED -		SCALE:	SHEET 2 OF 8 SHEETS	STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

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### JOINT REMOVAL PLAN - SN 054-0076 (S.B.)

(North Abutment shown, South Abutment similar except as noted.)

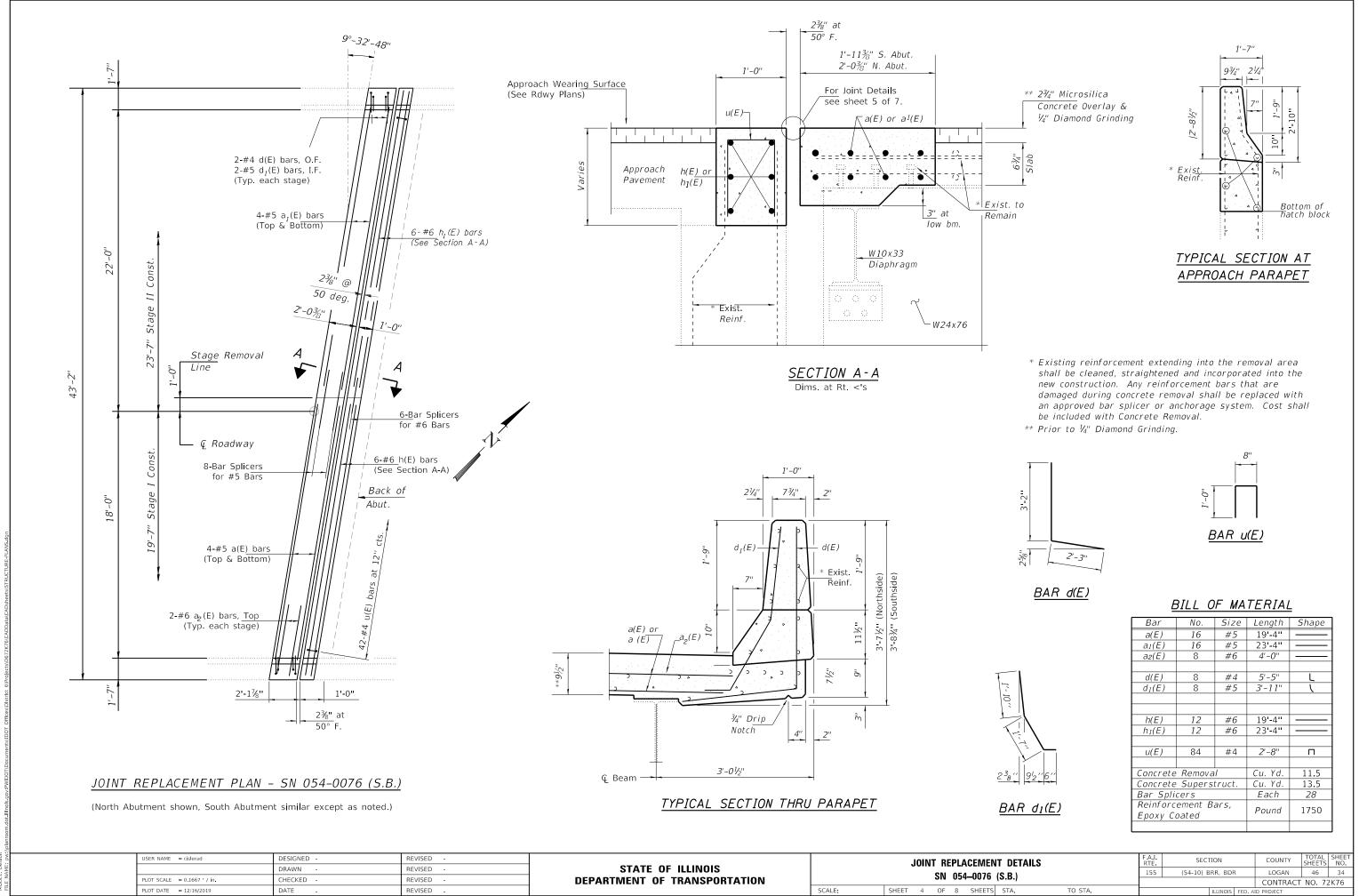
USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

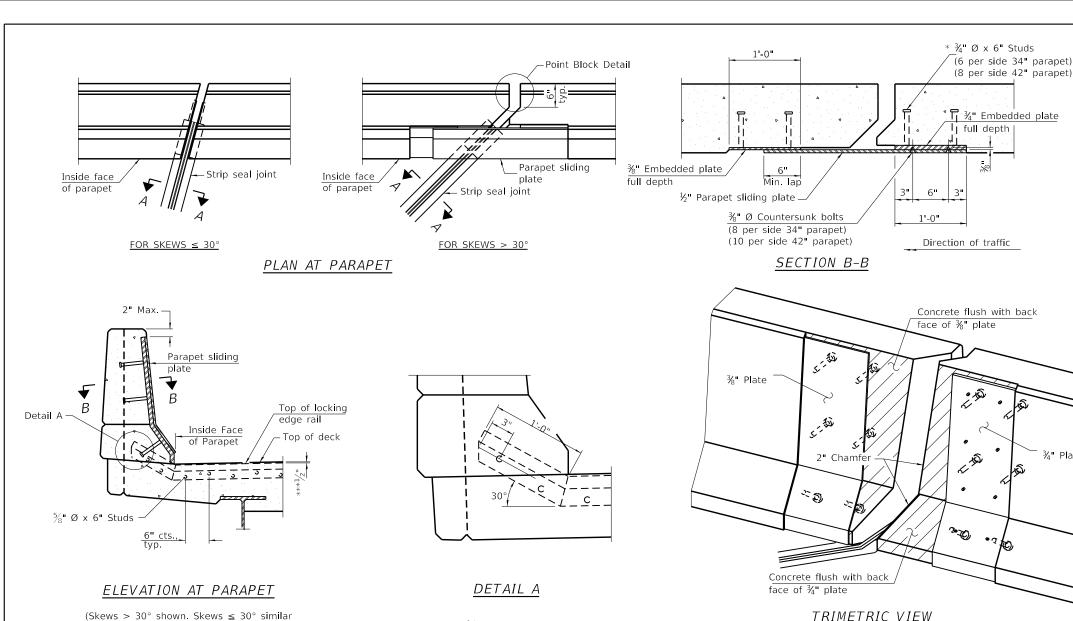
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	JO	INT	REI	/IOVAL	DETAILS	3	F.A.I. RTE	SEC <sup>-</sup>	ΓΙΟΝ		COUNTY	S
		CVI	05/	<b>0076</b>	/C R \		155	(54-10) E	RR, BDF	2	LOGAN	Г
		JIV	03-	-0070	(3.0.)						CONTRACT	1
SHEET	3	OF	8	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT	

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MODEL: Deferit



### TRIMETRIC VIEW

(Showing embedded plates only)

# Locking edge rail -1½" at 50° F Top of concrete Strip seal at 50° F the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed SHOWING ROLLED RAIL JOINT

except as shown in plan view.)

Locking edge rail at 50° F Top of concrete Strip seal \* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  $\frac{3}{8}$ "  $\phi$  threaded rods in  $\frac{7}{16}$ "  $\phi$  holes at  $\pm 4$ '-0" cts. for holding the proper joint opening based on

SHOWING WELDED RAIL JOINT

# LOCKING EDGE RAILS

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

The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

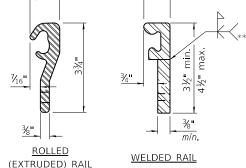
The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be  $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal. 34" F-shape barrier shown, 42" F-shape similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



¾" Plate

### LOCKING EDGE RAIL SPLICE

Omit weld at seal opening

TO STA.

flush

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

### BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	86

### SECTION A-A

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

off flush with the plates after concrete is set.

\*\*\* Prior to \( \frac{1}{4} \)" Diamond Grinding

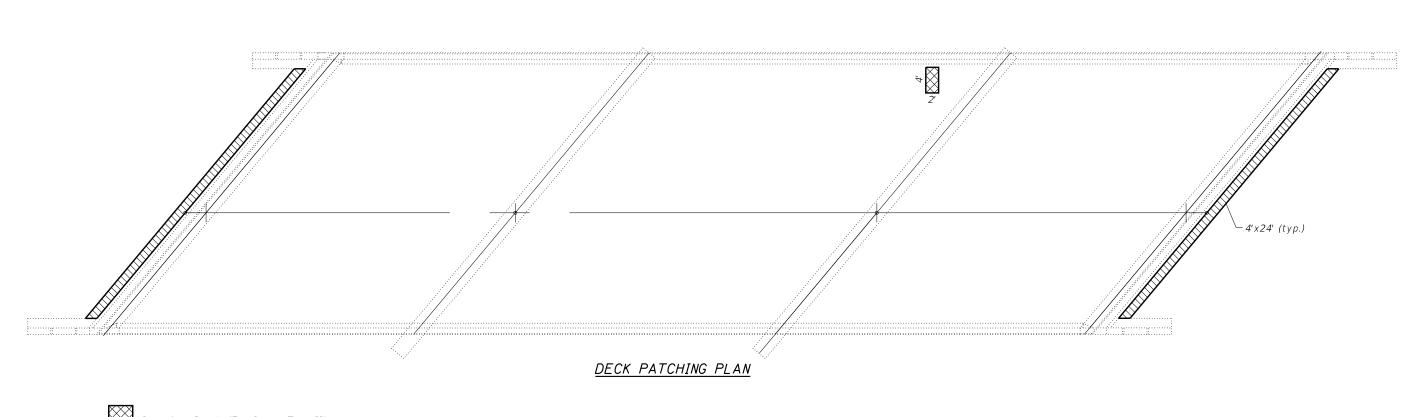
JSER NAME = cislerad DESIGNED -REVISED DRAWN REVISED HECKED REVISED REVISED PLOT DATE = 12/16/2019 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

PREFORMED JOINT STRIP SEAL SN 054-0076 (S.B.) SHEET 5 OF 8 SHEETS STA.

SECTION COUNTY (54-10) BRR, BDR LOGAN 46 35 CONTRACT NO. 72K76

SCALE:

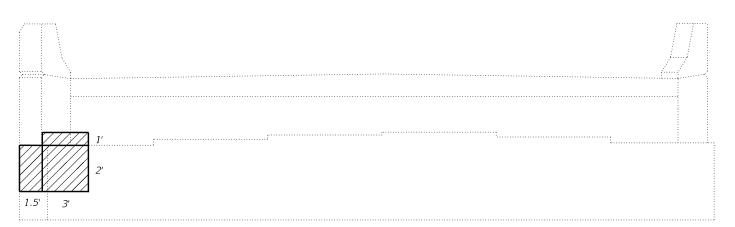


Deck Slab Repair (Full Depth, Type II)

Structural Repair of Concrete =<5 inches



Approach Slab Repair



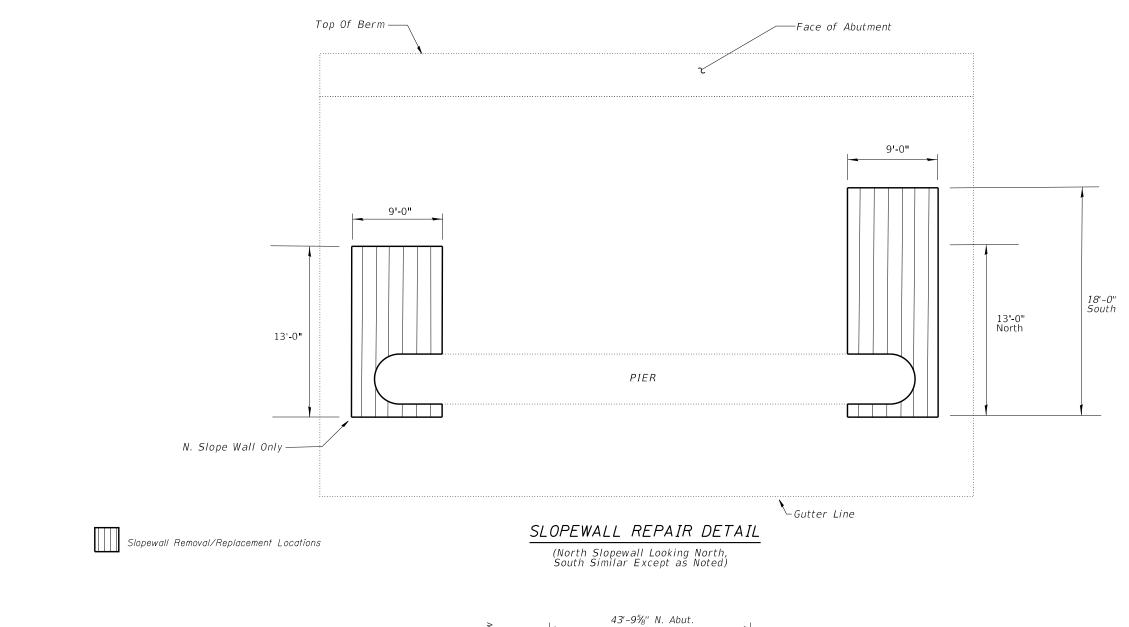
### ABUTMENT REPAIR DETAILS

South Abutment Looking South North Abutment Looking North

### BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	0.8
Structural Repair of Concrete (Depth =<5")	Sq. Ft.	24.0
Approach Slab Repair	Sq. Yd.	21.3

USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2019	DATE	REVISED



43'-95%" N. Abut.

50'-21%" S. Abut.

10'-0"

® Rt.°'s

6" Conc. Curb
at Piers

2" P.J.F. all
around Pier

CSLM

Voids under Slopwall

### SECTION THRU SLOPEWALL

Actual Limits of CSLM and Slopewall Repairs to be determined by the Engineer
Voided area under slopewall shall be filled with Controlled
Low-Strength Material as directed by the Engineer
All silt, sand and other debris in gutter at bottom of slopewall to be removed. Cost included with Controlled Low-Strength Material.

### BILL OF MATERIAL

Item	Unit	Total
Controlled Low-Strength Material	Cu. Yd.	29.3
Slope Wall Removal	Sq. Yd.	44
Slope Wall 4 inch	Sq. Yd.	44

 USER NAME
 = cislerad
 DESIGNED
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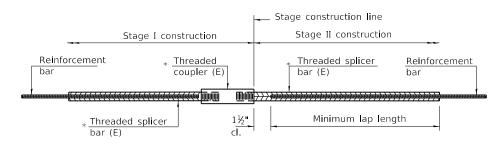
 PLOT SCALE
 = 0.1667 ' / in.
 CHECKED
 REVISED

 PLOT DATE
 = 12/16/2019
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

| SLOPE WALL REPAIRS | F.A.I. | SECTION | COUNTY | TOTAL | SHEET | SLOPE | SLOPE | SHEET | SLOPE | SHEET | SLOPE | SLO

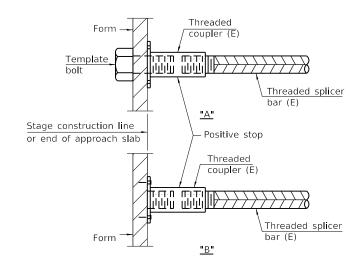


### STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length +  $1\frac{1}{2}$ " + thread length

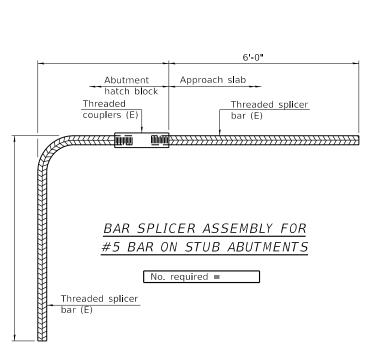
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

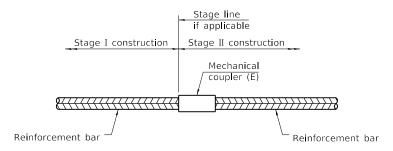
Location	Bar size	No. assemblies required	Minimum Iap length
Bridge Deck	#5	16	3′-6′′
Hatch Block	#6	12	4'-0''



### INSTALLATION AND SETTING METHODS

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





### STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

### NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

JSER NAME = cislerad DESIGNED -REVISED DRAWN REVISED HECKED REVISED PLOT DATE = 12/16/2019 DATE REVISED

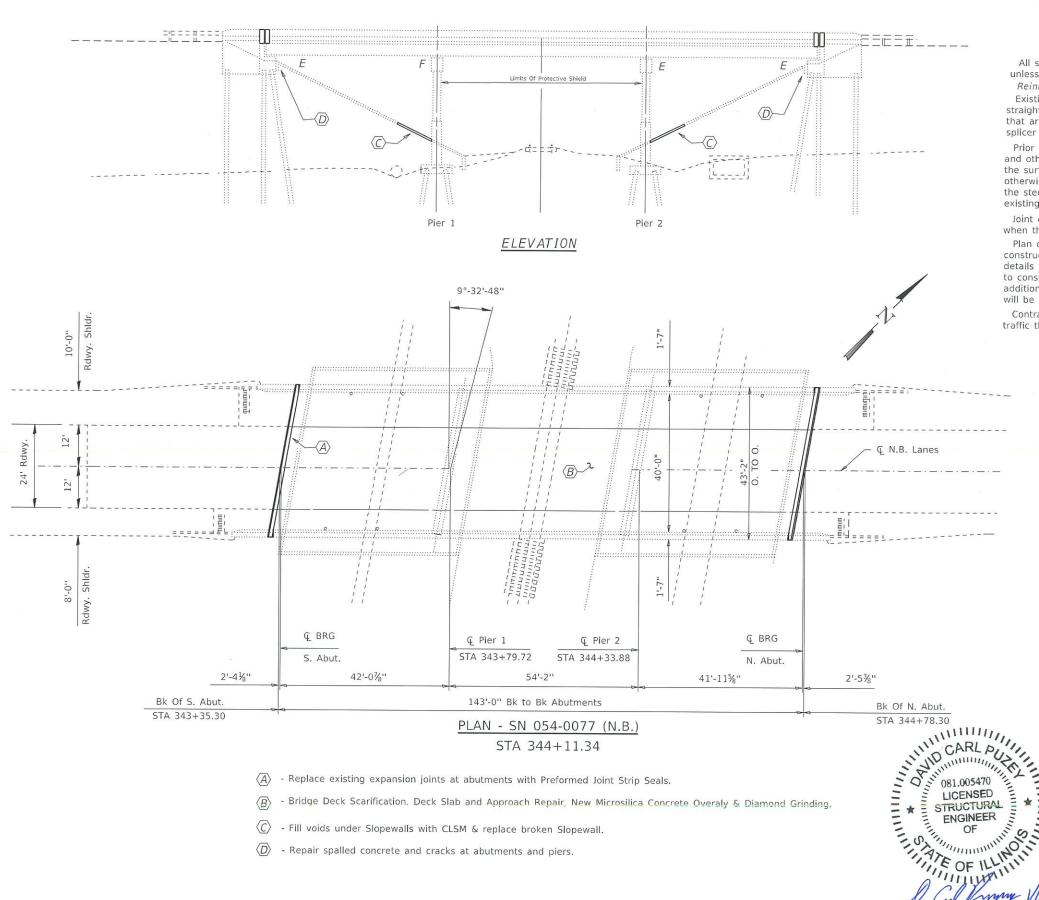
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

BAR SPLICER ASSEMBLY & MECHANICAL SPLICER DETAILS 155 SN 054-0076 (S.B.) SCALE:

SECTION COUNTY (54-10) BRR, BDR LOGAN 46 38 CONTRACT NO. 72K76

SHEET 8 OF 8 SHEETS STA.

TO STA.



SER NAME = edwardsjd

PLOT SCALE = 0.1667 ' / in

PLOT DATE = 1/15/2020

DESIGNED -

DRAWN -

CHECKED -

DATE

ARS

JDE

12/16/2019

12/16/2019

REVISED -

01/15/2020

### GENERAL NOTES

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

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ITEM	UNIT	QUANTITY
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Bridge Deck Scarification 3/4"	Sq. Yd.	601
Diamond Grinding (Bridge Section)	Sq. Yd.	540.6
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	382
Preformed Joint Strip Seal	Foot	86
Concrete Sealer	Sq. Ft.	4.5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	7.4
Structural Repair of Concrete (Depth =<5")	Sq. Ft.	4.5
Protective Coat	Sq. Yd.	646
Controlled Low-Strength Material	Cu. Yd.	47.3
Slope Wall Removal	Sq. Yd.	71
Slope Wall 4 inch	Sq. Yd.	71
Protective Shield	Sq. Yd.	646
Approach Slab Repair	Sq. Yd.	21.3

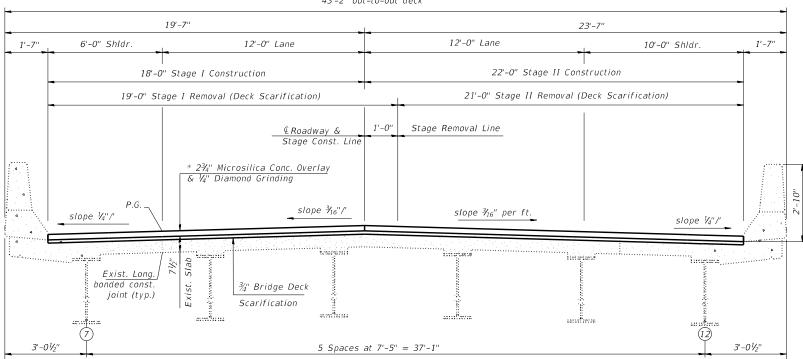
REVISED STATE OF ILLINOIS REVISED **DEPARTMENT OF TRANSPORTATION** REVISED

SCALE:

21/211 - 1/20/2020					
GENERAL PLAN & ELEVATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE
ITERSTATE 155 OVER ICG RR SN 054-0077 (N.B.)	155	(54-10) BRR, BDR	LOGAN	46	39
			CONTRAC	T NO. 7	2K76
SHEET 1 OF 8 SHEETS STA. TO STA.		ILLINOIS SED	AID DROIFET		

### CROSS SECTION AT ABUTMENTS

### 43'-2" out-to-out deck



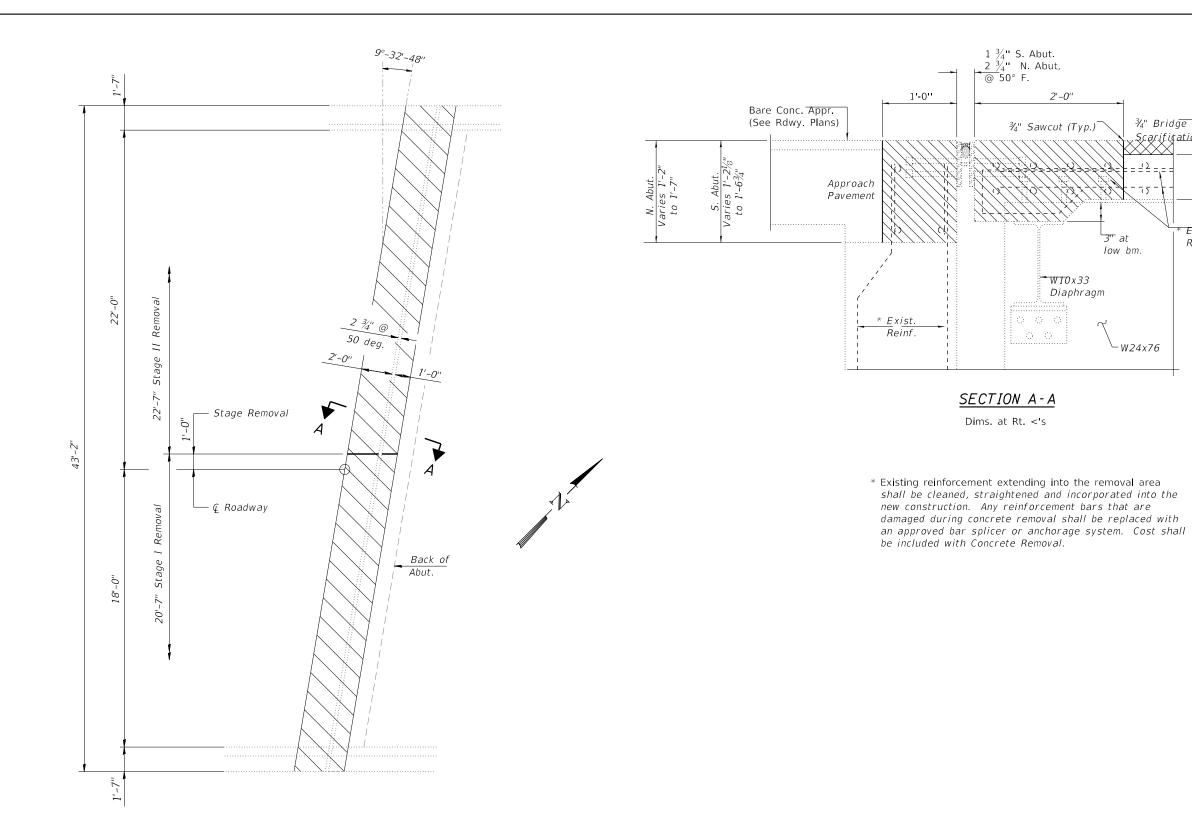
### CROSS SECTION AT MID SPANS

(Looking North) \* Prior to ¼" Diamond Grinding.

USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2019	DATE -	REVISED -

SCALE:

CROSS SECTIONS & STAGING DETAILS							F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SN 054-0077 (N.B.)							155	(54-10) BRR, BDR	LOGAN	46	40
		JIV	03-	-0077	(14.0.)				CONTRACT	NO. 72	2K76
SHEET	2	OF	8	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



### JOINT REMOVAL PLAN - SN 054-0077 (N.B.)

(North Abutment shown, South Abutment similar except as noted.)

USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2019	DATE -	REVISED -

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

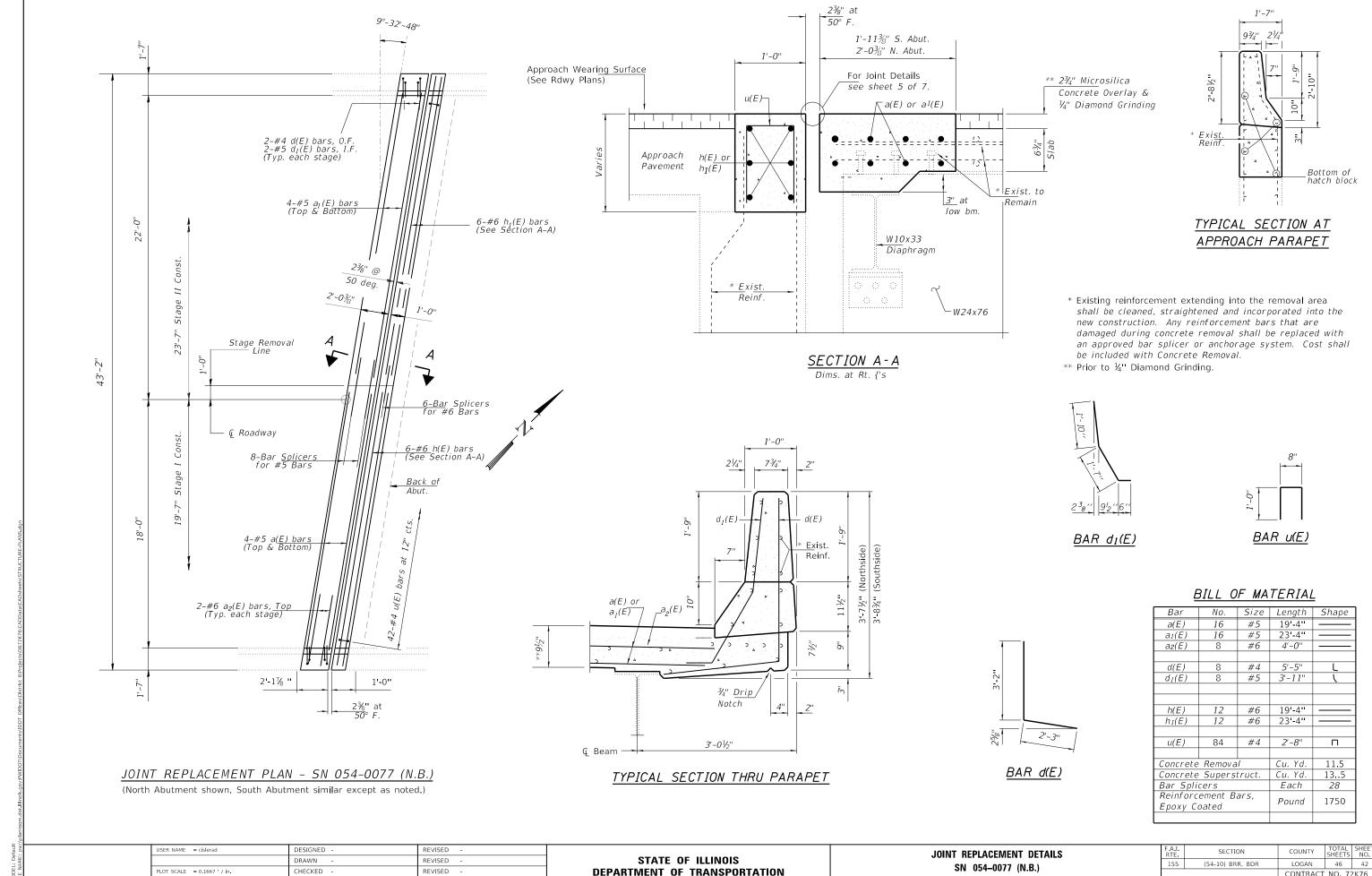
SCALE:

JOINT REMOVAL DETAILS						DETAILS		F.A.I. RTE.	SECTION	COUNTY	Y TOTAL SHEE SHEETS NO.	
SN				05/	-0077	(NR)		155	(54-10) BRR, BDR	LOGAN	46	41
			JIV	רכט	-0077	(14.0.)				CONTRACT	NO. 72	2K76
	SHEET	3	OF	8	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

¾" Bridg<del>e Deck</del>

Exist. to Remain

Scarification\_



SCALE:

SHEET 4 OF 8 SHEETS STA.

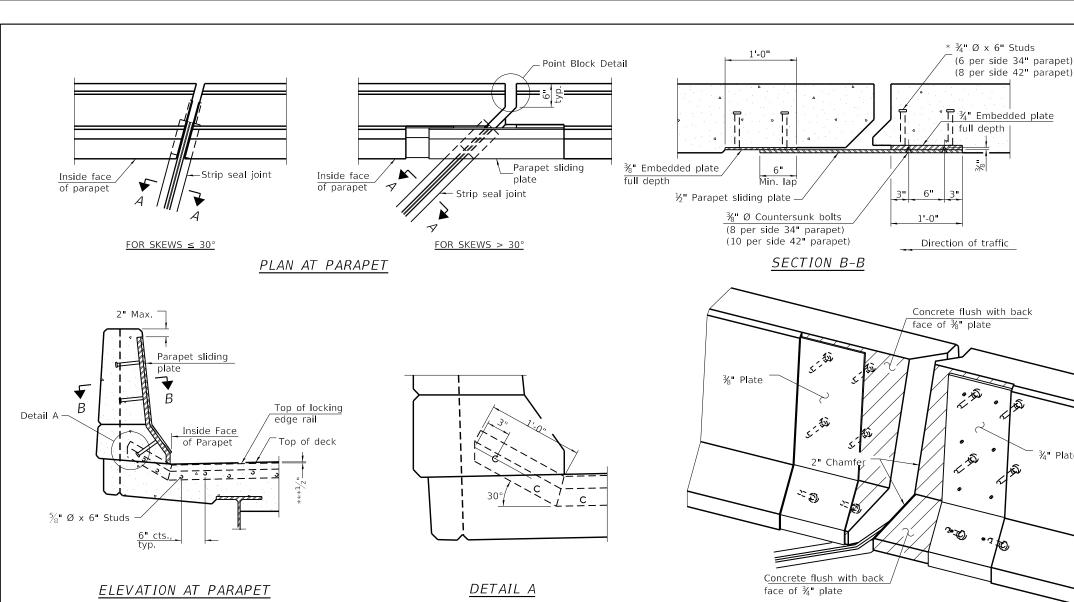
TO STA.

CONTRACT NO. 72K76

PLOT DATE = 12/16/2019

DATE

REVISED



\*\*\* Prior to  $\frac{1}{4}$ " Diamond Grinding

# ¾" Plate

TRIMETRIC VIEW (Showing embedded plates only)

# 1½" Locking edge rail at 50° F -Strip seal Top of concrete at 50° F SHOWING ROLLED RAIL JOINT

(Skews > 30° shown. Skews ≤ 30° similar

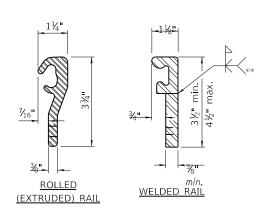
except as shown in plan view.)

Locking edge rail at 50° F Top of concrete Strip seal \* %" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  $^3\!/_8$   $^{\rm w}$   $\varphi$  threaded rods in  $^7\!/_6$   $^{\rm w}$   $\varphi$  holes at  $\pm 4'\text{-}0"$  cts. for holding the proper joint opening based on

the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

### SECTION A-A

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



Notes:

The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration

of the locking edge rails and matching strip seal may vary from

however, will not be allowed. Locking edge rails may exceed the

4½" maximum depth provided the anchorage system is revised

The manufacturer's recommended installation methods

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. The Maximum space between locking edge rail segments shall be  $\frac{3}{16}$ " and sealed with a suitable sealant; however, any

rail joint within 10' measured perpendicular to the face of the

curb or parapet shall be welded as shown in the locking edge

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and

parapet lengths shown elsewhere in the plans are dimensioned

to the concrete opening, not the joint opening, and are based

on the rolled locking edge rail. If the Contractor elects to use

may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these

cases the pavement connector length shall be adjusted, not the

a different locking edge rail, dimensional adjustments

length of the bridge approach slab.

Cost of parapet sliding plates, embedded plates, and

anchorage studs included with Preformed Joint Strip Seal. 34" F-shape barrier shown, 42" F-shape similar as noted.

according to the manufacturer's recommendation.

manufacturer to manufacturer provided they fit the application

and meet the minimum anchorage shown. Flanged edge rails,

rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum

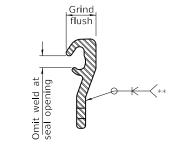
rated movement of 4 inches.

shall be followed.

rail splice detail.

### LOCKING EDGE RAILS

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



### LOCKING EDGE RAIL SPLICE

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

### BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	86

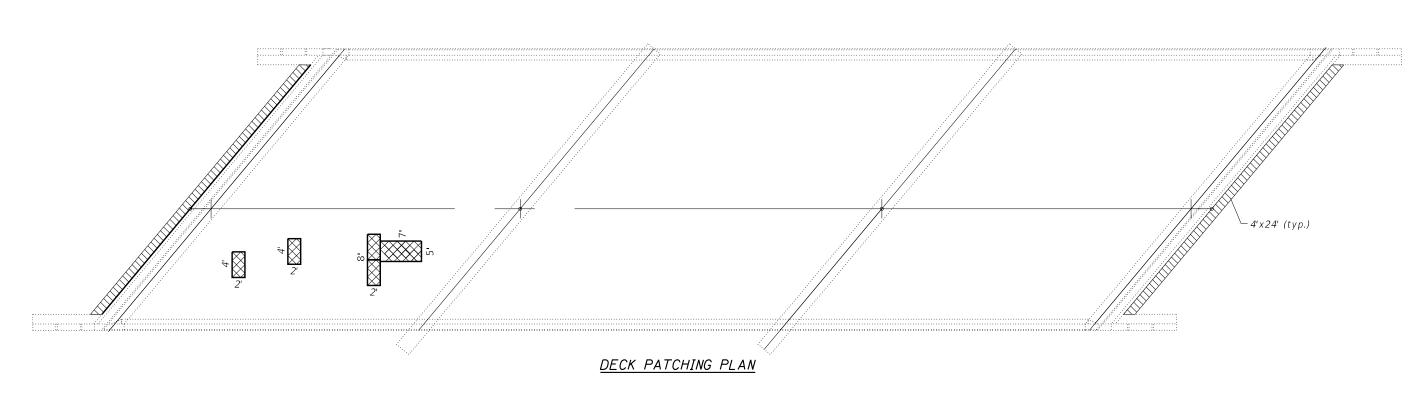
JSER NAME = cislerad DRAWN REVISED LOT SCALE = 0.1667 / in. HECKED REVISED PLOT DATE = 12/16/2019 DATE REVISED

PREFORMED JOINT STRIP SEAL SN 054-0077 (N.B.)

SECTION COUNTY (54-10) BRR, BDR LOGAN 46 43 CONTRACT NO. 72K76

DESIGNED -REVISED STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SCALE: SHEET 5 OF 8 SHEETS STA. TO STA.

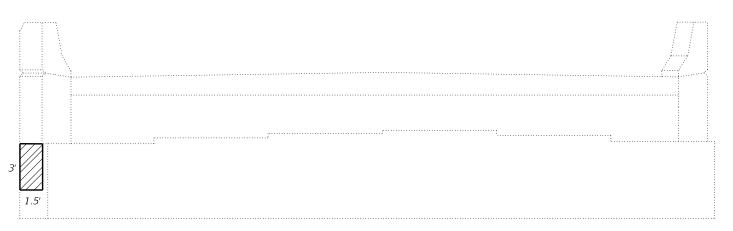
SHOWING WELDED RAIL JOINT



Deck Slab Repair (Full Depth, Type II)

Structural Repair of Concrete =<5 inches

Approach Slab Repair



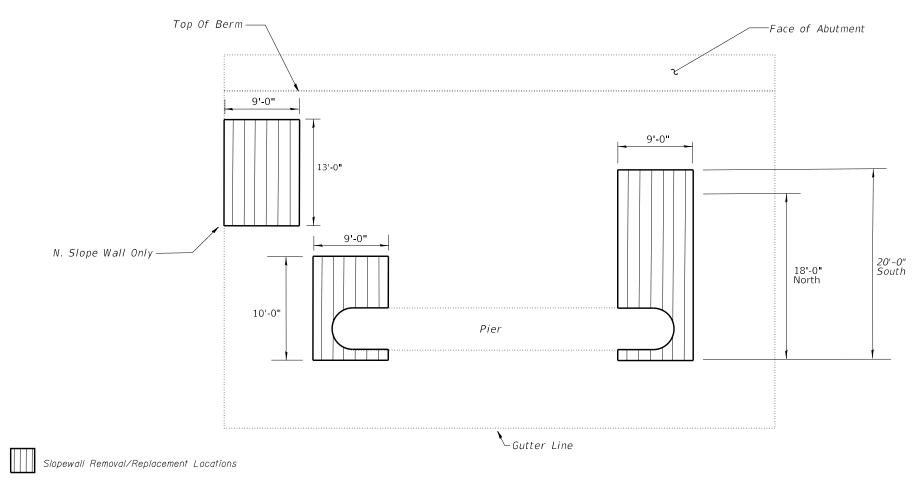
### ABUTMENT REPAIR DETAILS

South Abutment Looking South North Abutment Looking North

### BILL OF MATERIAL

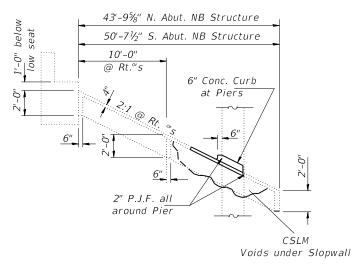
Item	Unit	Total
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	7.4
Structural Repair of Concrete (Depth =<5")	Sq. Ft.	4.5
Approach Slab Repair	Sq. Yd.	21.3

USER NAME = cislerad	DESIGNED -	REVISED -				CONCRETE	REP/	AIRS		F.A.I.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS							155	(54-10) BRR, BDR	LOGAN	46	44
PLOT SCALE = 0.1667 / in	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		;	SN 054-00	J// (I	N.B.)		1		CONTRACT NO. 72K7		K76
PLOT DATE = 12/16/2019	DATE -	REVISED -		SCALE:	SHEET 6	OF 8 SH	EETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



### SLOPEWALL REPAIR DETAIL

(North Slopewall Looking North, South Similar Exept As Noted)



### SECTION THRU SLOPEWALL

Actual Limits of CSLM and Slopewall Repairs to be determined by the Engineer Voided area under slopewall shall be filled with Controlled

Voided area under slopewall shall be filled with Controlled Low-Strength Material as directed by the Engineer All silt, sand and other debris in gutter at bottom of slopewall to be removed. Cost included with Controlled Low-Strength Material.

### BILL OF MATERIAL

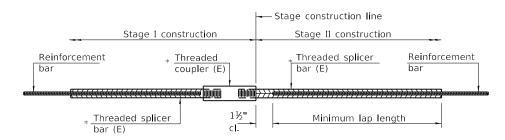
Item	Unit	Total
Controlled Low-Strength Material	Cu. Yd.	47.3
Slope Wall Removal	Sq. Yd.	71
Slope Wall 4 inch	Sq. Yd.	71

USER NAME = cislerad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

		SLOP	ΕV	VALL RI	PAIRS		F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SN 054-0077 (N.B.)						155	(54-10) BRR, BD	LOGAN	46	45		
		JIV	03.	1-0077	(14.D./					CONTRACT	NO. 72	2K76
SHEET	7	OF	8	SHEETS	STA.	TO STA.		ILLINOIS	FED. A	ID PROJECT		

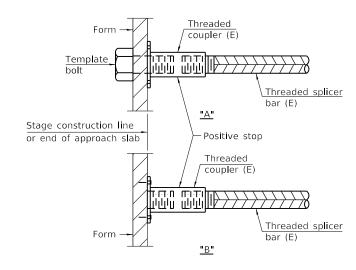


### STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length +  $1\frac{1}{2}$ " + thread length

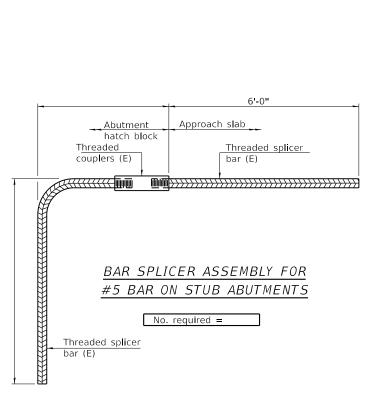
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

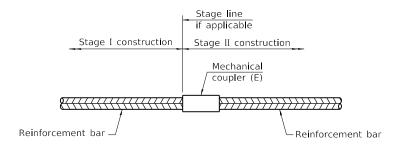
Location	Bar size	No. assemblies required	Minimum lap length
Bridge Deck	#5	16	3'-6''
Hatch Block	#6	12	4'-0''



### INSTALLATION AND SETTING METHODS

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





### STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

### NOTES

Splicer bars shall be deformed with threaded ends and have a minimum  $60\ \mathrm{ksi}$  yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

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	DRAWN -	REVISED -
PLOT SCALE = 0.1667 / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

 BAR SPLICER ASSEMBLY & MECHANICAL SPLICER DETAILS
 F.A.I. SECTION
 COUNTY
 TOTAL SHEETS NO.

 SN 054-0077 (N.B.)
 155 (54-10) BRR, BDR
 LOGAN
 46 | 46

 SHEET 8 0F 8 SHEETS STA.
 TO STA.
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