

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7779	18-00084-00-RS	CASS	8	1
		ILLINOIS	CONTRACT NO. 93772	

SHEET	INDEX OF SHEETS
1	COVER SHEET
2	GENERAL NOTES, TYPICAL SECTIONS, AND HIGHWAY STANDARDS
3-4	SUMMARY OF QUANTITIES
5	SCHEDULES OF QUANTITIES
6-7	ROADWAY PLANS AND TIE POINTS
8	SPECIAL DETAILS

FAU ROUTE 7779
SECTION 18-00084-00-RS
PROJECT 6E8N(619)
SURFACE TRANSPORTATION RURAL PROGRAM
CASS COUNTY



DESCRIPTION OF WORK

THE PROJECT CONSISTS OF 1" OF MILLING AND 3" OF RESURFACING. THE MILLED SURFACE SHALL BE RESURFACED WITH 3" OF HOT-MIX ASPHALT PAVEMENT. ALSO INCLUDED WILL BE HOT-MIX ASPHALT APRONS AT ENTRANCES, PAVEMENT MARKING, AND RAISED REFLECTIVE PAVEMENT MARKERS.

C-96-073-21

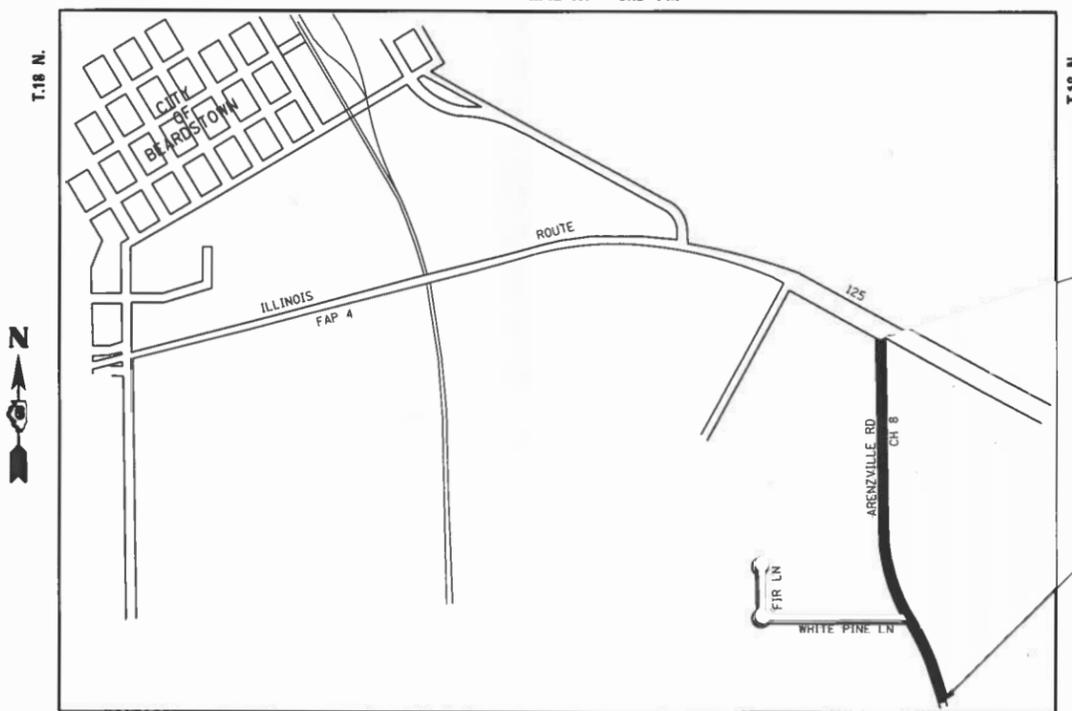
R. 12 W. - 3RD PM

GAS & ELECTRIC
 AMEREN
 104 EAST 3RD STREET
 BEARDSTOWN, ILLINOIS 62618

ILLINOIS RURAL ELECTRIC
 2 SOUTH MAIN
 WINCHESTER, IL 62694

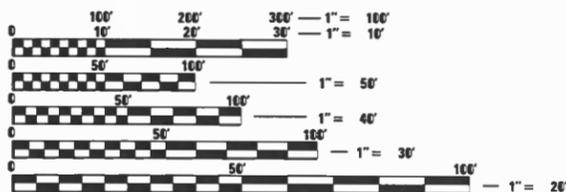
COMMUNICATIONS
 CASS COMMUNICATIONS INC.
 1 REDBUD ROAD
 VIRGINIA, ILLINOIS 62691

WATER & SEWER
 CITY OF BEARDSTOWN
 105 WEST 3RD STREET
 BEARDSTOWN, ILLINOIS 62618



SECTION 18-00084-00-RS
 BEGINS
 102 + 45.00

SECTION 18-00084-00-RS
 ENDS
 144 + 10.00



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 EXCAVATORS
 1-800-892-0123
 OR 811

DESIGN DESIGNATION
 FAU 7779
MAJOR COLLECTOR
 ADT = 7540
 % PV = 86.0
 % SU = 6.5
 % MU = 7.5
DESIGN SPEED = 45 MPH

GROSS LENGTH = 4165.00 FT. = 0.789 MILE
 NET LENGTH = 4165.00 FT. = 0.789 MILE



PROJECT ENGINEER: BRIAN M. BORGMAN
PROJECT MANAGER: JAMES R. BURKE

CONTRACT NO. 93772

Hutchison Engineering, Inc.
 SINCE 1945
 1801 West Lafayette
 PO Box 820
 Jacksonville, Illinois 62651
 PHONE : (217)245-7164 FAX (217)243-0468

5/12/2021
 EXP. 11/30/24

ENGINEER'S SEAL

APPROVED 5/12/2021
Timothy Donoghue
 CASS COUNTY ENGINEER

~~PASSED~~

~~DISTRICT ENGINEER OF CONSTRUCTION~~

PASSED 5/18/2021
Brian Hight
 DISTRICT ENGINEER OF LOCAL ROADS & STREETS

APPROVED 5/18/2021
Jeffrey Thayer
 REGION FOUR DISTRICT ENGINEER

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				CASS COUNTY ROADWAY 0005 RURAL
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	10174	10174
40600990	TEMPORARY RAMP	SQ YD	163	163
40603208	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, 1L-9.5, N70	TON	1354	1354
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N70	TON	1438	1438
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	93	93
44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	14139	14139
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1800	1800
48101200	AGGREGATE SHOULDERS, TYPE B	TON	161	161
67100100	MOBILIZATION	L SUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	416	416
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	139	139
Δ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	63	63
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16629	16629
Δ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1249	1249

Δ SPECIALTY ITEMS

MODEL: \$MODELNAME\$
FILE NAME: Y:\218 - CH 8 Resurfacing - Cass\1\CADD\CADD Sheets\3-4798-ent-50001.dgn

USER NAME = Cburke	DESIGNED - BMB	REVISED -
DRAWN - CMB	CHECKED - JRB	REVISED -
PLOT SCALE = 2.0000' / in.	DATE - 04/2021	REVISED -
PLOT DATE = 5/13/2021		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 8 (ARENZVILLE ROAD)
SUMMARY OF QUANTITIES

SCALE: N/A SHEET 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7779	18-00084-00-RS	CASS	8	3
CONTRACT NO. 93772				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				CASS COUNTY	
				ROADWAY	
				0005	RURAL
Δ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	77	77	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	77	77	
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	4165	4165	

*SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

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	DRAWN - CMB	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - JRB	REVISED -
PLOT DATE = 5/13/2021	DATE - 04/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CH 8 (ARENZVILLE ROAD)
SUMMARY OF QUANTITIES

SCALE: N/A SHEET 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7779	18-00084-00-RS	CASS	8	4
CONTRACT NO. 93772				
ILLINOIS FED. AID PROJECT				

ENTRANCE SCHEDULE

STATION TO STATION		SIDE	40800050
			INCIDENTAL HOT-MIX ASPHALT SURFACING
			TON
103+32.00	104+88.00	RT	11.3
105+04.00	105+75.00	RT	4.7
107+75.00	108+15.00	LT	2.5
109+07.00	109+84.00	RT	5.0
113+22.00	113+60.00	LT	2.4
116+22.00	116+81.00	RT	3.9
116+43.00	116+85.00	LT	2.6
117+14.00	118+27.00	RT	7.5
119+19.00	119+67.00	RT	3.0
120+78.00	121+17.00	RT	2.6
123+69.00	124+45.00	LT	10.1
128+70.00	129+93.00	LT	9.1
138+20.00	139+28.00	RT	7.3
138+54.00	138+80.00	LT	1.7
140+12.00	140+53.00	LT	1.7
140+13.00	141+00.00	RT	10.2
143+87.00	144+48.00	RT	6.8
TOTAL			92.4
USE			93

REFLECTIVE PAVEMENT MARKER SCHEDULE

STATION TO STATION		78100100	78300200
		RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
		EACH	
102+45.00	116+04.30	18	18
116+04.00	134+84.00	47	47
134+84.00	144+10.00	12	12
TOTAL		77	77
USE		77	77

TEMPORARY RAMP SCHEDULE

STATION TO STATION		SIDE	40600990
			TEMPORARY RAMP
			SQ YD
102+72.00	102+85.00	LT/RT	40.4
122+86.00	127+75.00	RT	103.4
143+70.00	143+83.00	LT/RT	18.3
TOTAL			162.1
USE			163

PAVEMENT MARKING SCHEDULE

STATION TO STATION		SIDE	78000100	78000200	78000400		
			THERMOPLASTIC PAVEMENT MARKING				
		LETTERS AND SYMBOLS	4"		6"		
			SQ FT	SOLID YELLOW	SOLID WHITE	SKIP DASH WHITE	
			FOOT				
102+45.00	105+80.00	LT	31.2		215.6	30.0	
102+45.00	144+10.00	LT		4165.0			
102+45.00	144+10.00	CL		8330.0			
102+45.00	127+75.00	RT		2545.3			
122+86.00	125+26.00	RT	31.2		118.4	30.0	
126+33.00	144+10.00	RT		1588.1			
134+25.00	142+80.00	RT			855.0		
TOTAL			62.4	8330.0	8298.4	1189.0	60.0
USE			63	16629	1249		

PAVEMENT SCHEDULE

STATION TO STATION		44000153	44000157	40603208	40604162			40600295	Z0033700
		HOT-MIX ASPHALT SURFACE REMOVAL		POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70			POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT
		1"	2"	1.5"	VARIES	1.5"	2"		
		SQ YD		TON			POUND	FOOT	
102+45.00	105+80.00	1581.1		135.6	27.6	119.0		1143.9	335.0
105+80.00	122+46.00	5966.6		584.7		501.2		4027.5	1666.0
122+46.00	122+86.00		145.4		24.4			65.4	40.0
122+86.00	127+75.00		1511.9				169.3	453.6	489.0
127+75.00	128+15.00		142.3		23.9			64.0	40.0
128+15.00	144+10.00	6591.0		632.8	18.7	553.0		4418.9	1595.0
TOTAL		14138.8	1799.7	1353.2	94.7	1173.2	169.3	10173.3	4165.0
USE		14139	1800	1354		1438		10174	4165

SHORT TERM PAVEMENT MARKING SCHEDULE

STATION TO STATION		SIDE	70300100	70300150
			SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL
			FOOT	SQ FT
102+45.00	144+10.00	CL	416.0	139.0
TOTAL			416	139
USE			416	139

SHOULDER SCHEDULE

STATION TO STATION		SIDE	48101200
			AGGREGATE SHOULDERS, TYPE B
			TON
102+45.00	103+31.00	RT	2.2
102+45.00	107+75.00	LT	13.4
104+88.00	105+04.00	RT	0.4
105+75.00	109+07.00	RT	8.4
108+15.00	113+22.00	LT	12.8
109+84.00	116+22.00	RT	16.1
113+60.00	116+43.00	LT	7.2
117+81.00	118+14.00	RT	0.8
117+85.00	123+69.00	LT	14.8
121+17.00	122+86.00	RT	4.3
124+44.00	128+70.00	LT	10.8
127+75.00	138+20.00	RT	26.4
129+93.00	138+54.00	LT	21.8
138+80.00	140+12.00	LT	3.3
139+28.00	140+13.00	RT	2.2
140+53.00	144+10.00	RT	9.0
141+00.00	142+87.00	RT	4.7
143+48.00	144+10.00	RT	1.6
TOTAL			160.3
USE			161

MODEL: \\MODELS\MJMS\FILES\18-00084-00-RS-CT-8 Resurfacing (CADD)\CADD\CADD_Sheets\18-00084-00-RS-CT-8_Schedule.dwg

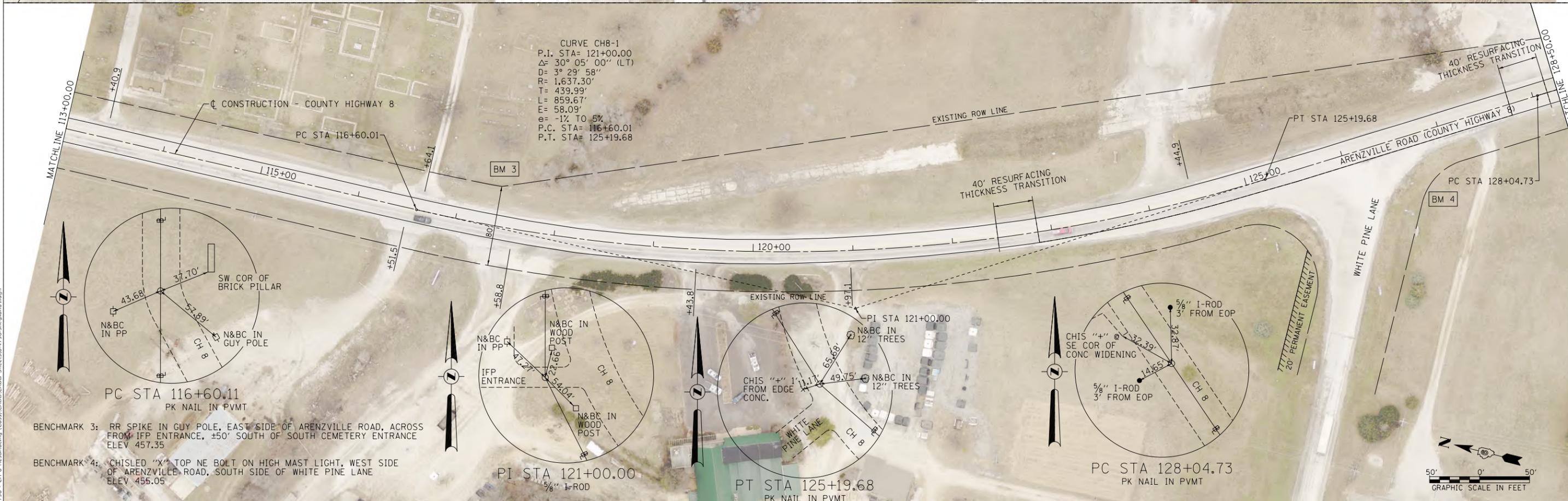
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	DRAWN - CMB	REVISED -
PLOT SCALE = 2,0000 ' / In.	CHECKED - JRB	REVISED -
PLOT DATE = 5/13/2021	DATE - 04/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CH 8 (ARENZVILLE ROAD)
SCHEDULES OF QUANTITIES**

SCALE: N/A SHEET 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7779	18-00084-00-RS	CASS	8	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93722	



MODEL: s:\00\B\NAME\FILE: 031720 - CH 8 Resurfacing (Class)\CADD\CADD_Sheets\6-4798-rh-plan01.dgn

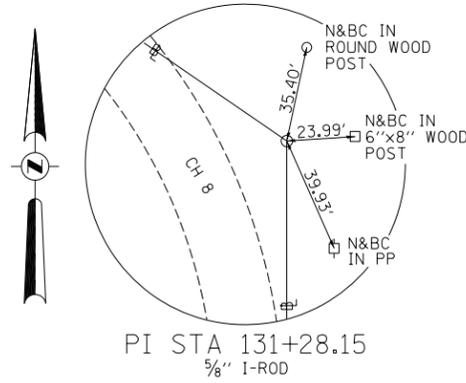
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DRAWN -	REVISOR -	REVISOR -
PLOT SCALE = 100,000' / in.	CHECKED -	REVISOR -
PLOT DATE = 4/14/2021	DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

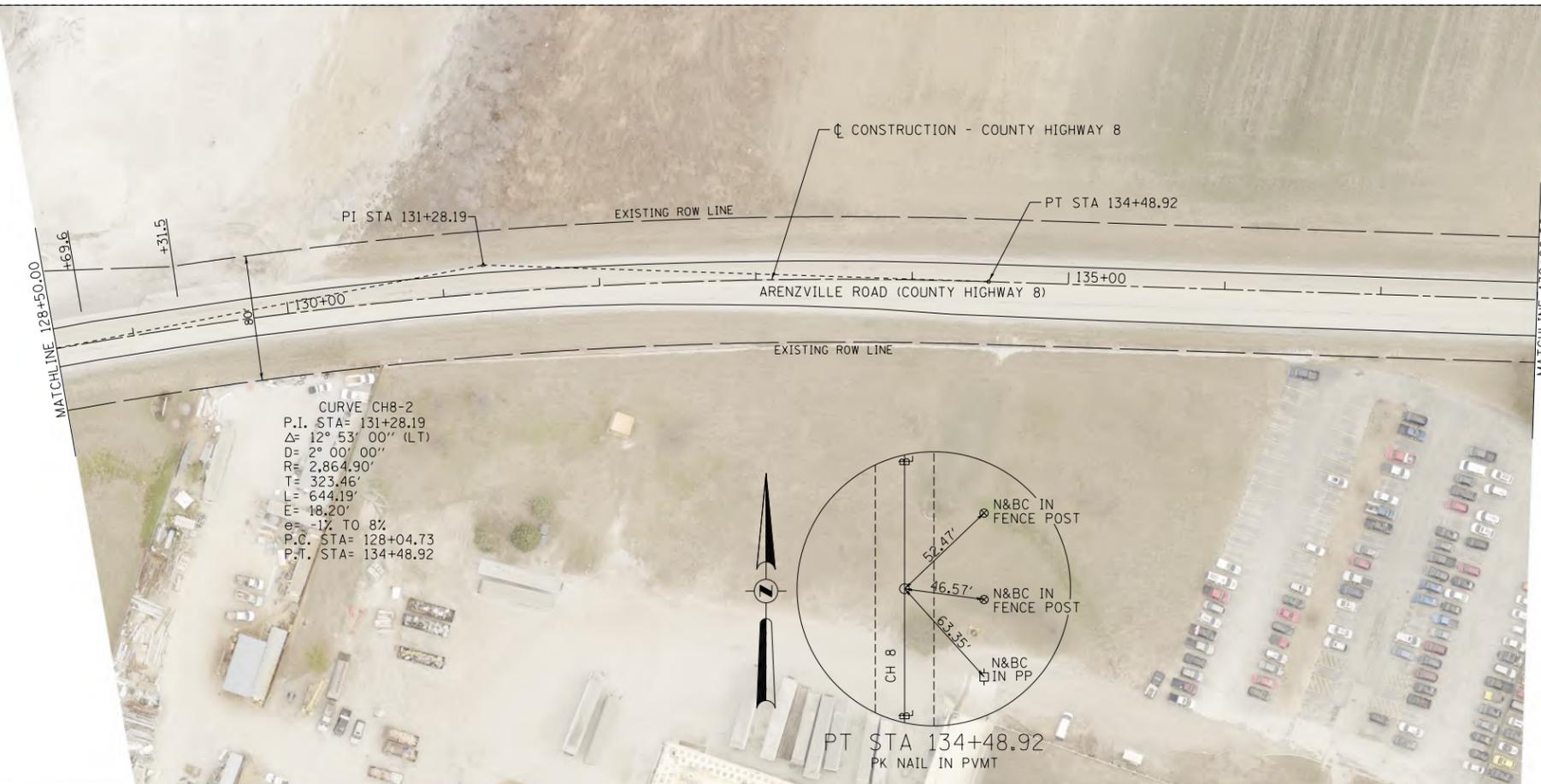
**CH 8 (ARENZVILLE ROAD)
ROADWAY PLAN AND TIE POINTS**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 102+45.00 TO STA. 128+50.00

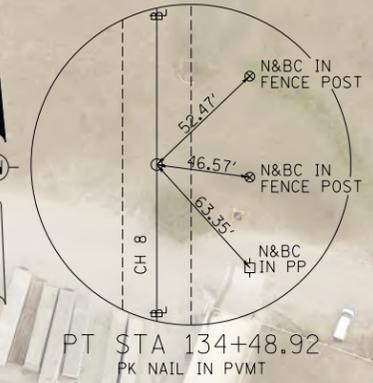
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7779	18-00084-00-RS	CASS	8	6
CONTRACT NO. 93772				
ILLINOIS FED. AID PROJECT				



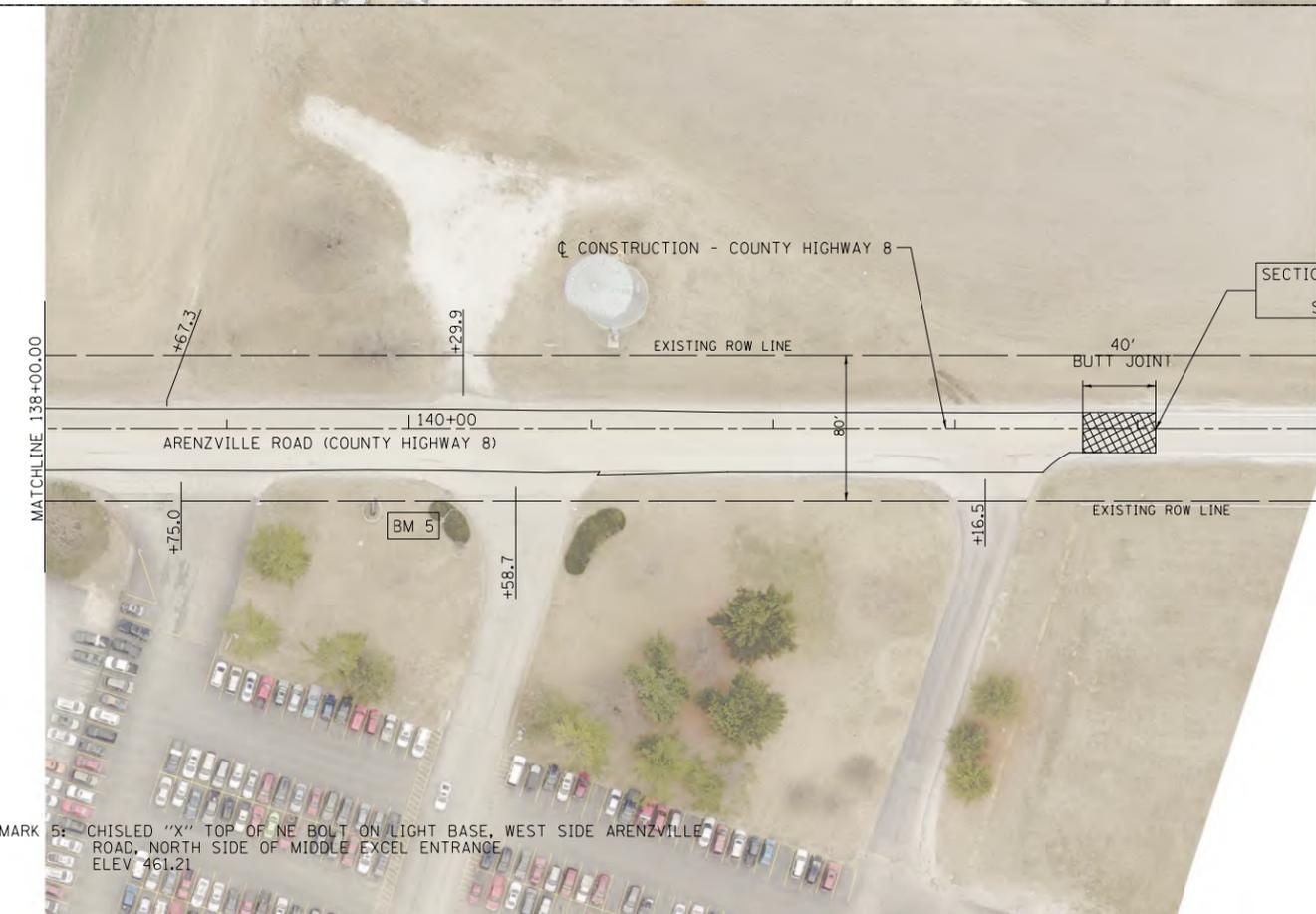
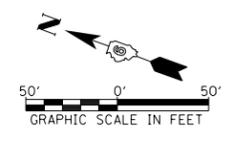
PI STA 131+28.15
5/8" I-ROD



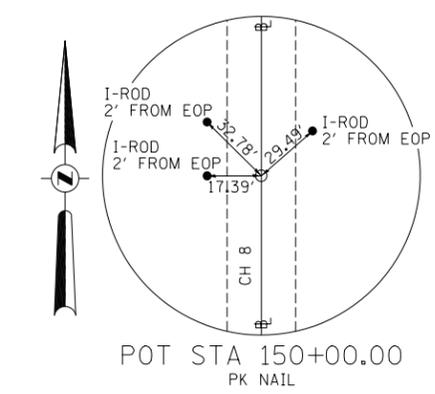
CURVE CH8-2
P.I. STA= 131+28.19
 $\Delta = 12^\circ 53' 00''$ (LT)
D= 2° 00' 00"
R= 2,864.90'
T= 323.46'
L= 644.19'
E= 18.20'
e= -1% TO 8%
P.C. STA= 128+04.73
P.T. STA= 134+48.92



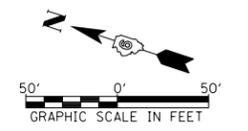
PT STA 134+48.92
PK NAIL IN PVMT



BENCHMARK 5: CHISELED "X" TOP OF NE BOLT ON LIGHT BASE, WEST SIDE ARENZVILLE ROAD, NORTH SIDE OF MIDDLE EXCEL ENTRANCE ELEV 461.21



POT STA 150+00.00
PK NAIL



MODEL: s:\09\B\MM\MS FILE NAME: 031720 - CH 8 Resurfacing (Class)\CADD\CADD Sheets\17-4798-rl-plan02.dgn

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	DRAWN -	REVISED -
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PLOT DATE = 4/14/2021	DATE -	REVISED -

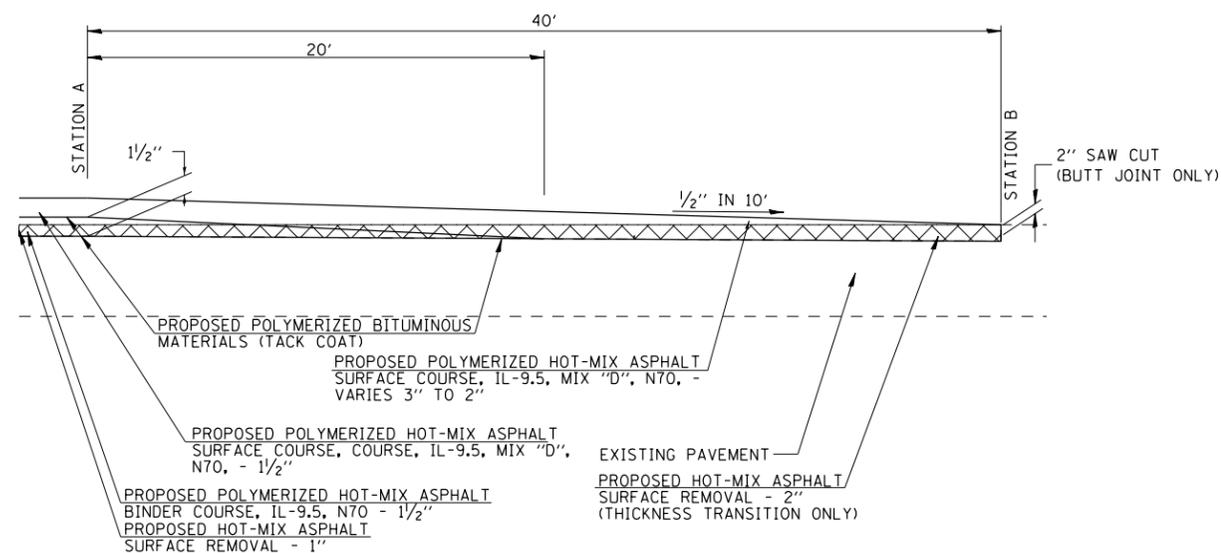
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CH 8 (ARENZVILLE ROAD)
ROADWAY PLAN AND TIE POINTS**

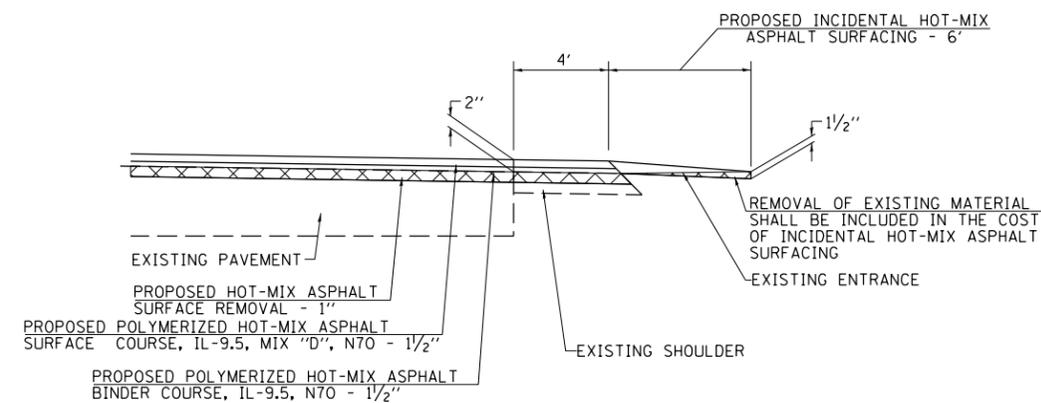
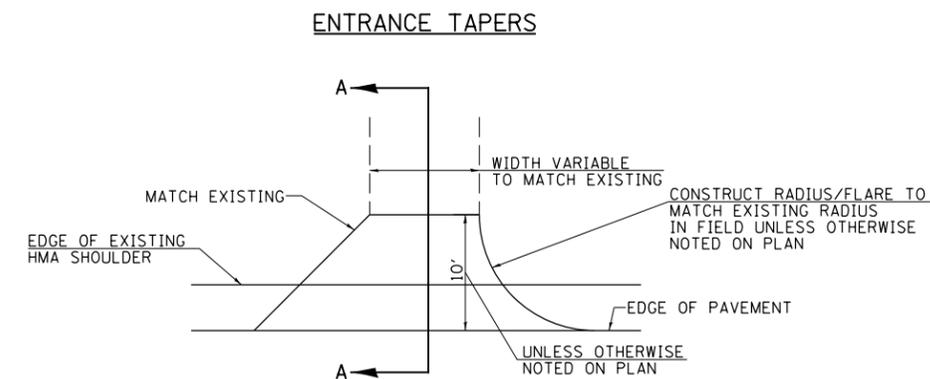
SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 128+50.00 TO STA. 144+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7779	18-00084-00-RS	CASS	8	7
CONTRACT NO. 93772				
ILLINOIS FED. AID PROJECT				

STATION A	STATION B
102+85	102+45
122+46	122+86
128+15	127+75
143+70	144+10



BUTT JOINT AND THICKNESS TRANSITION DETAIL



SECTION A-A EXISTING ENTRANCE

MODEL: I:\MODELS\MHFE
FILE: MHFE_041721 - CH 8 Resurfacing (Cass)\CADD\CADD_Sheets\18-4798-sh-det01.dgn

USER NAME = CBurke	DESIGNED - BMB	REVISED -
	DRAWN - CMB	REVISED -
PLOT SCALE = 2,000' / In.	CHECKED - JRB	REVISED -
PLOT DATE = 5/12/2021	DATE - 04/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: N/A SHEET 1 OF 1 SHEETS

**CH 8 (ARENZVILLE ROAD)
SPECIAL DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7779	18-00084-00-RS	CASS	8	8
				CONTRACT NO. 93772
ILLINOIS FED. AID PROJECT				