

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2024-1	VARIOUS	12	1
	ILLINOIS	CONTRACT NO. 74C30		

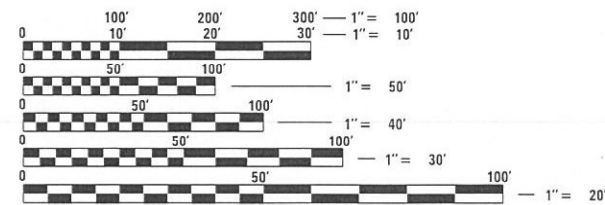
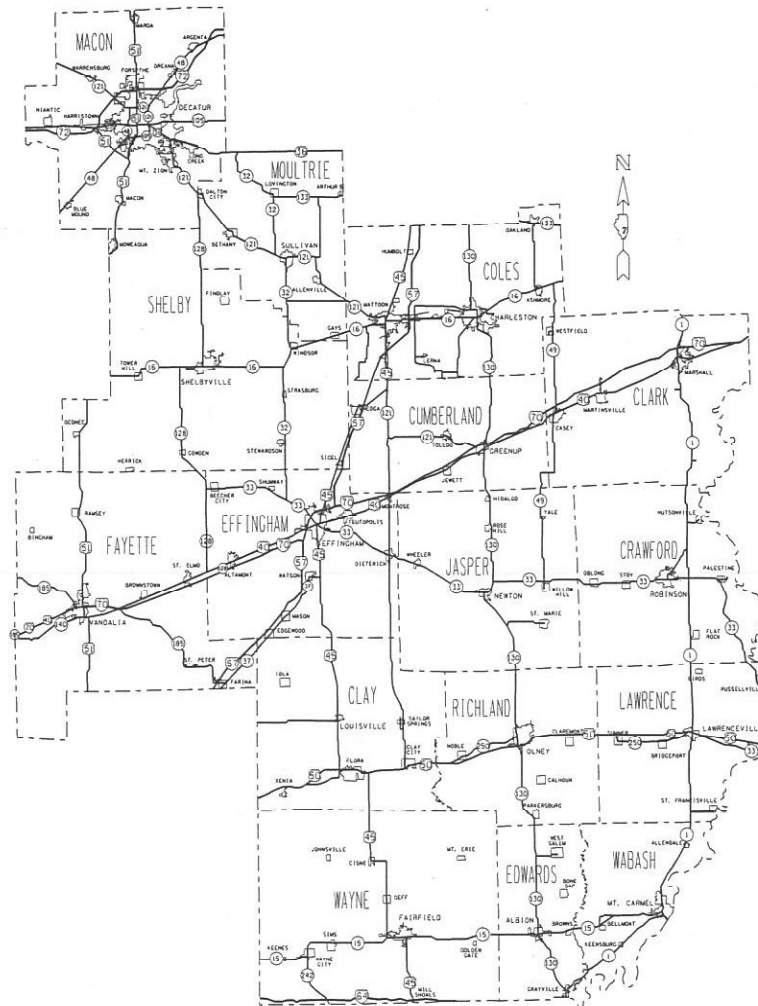
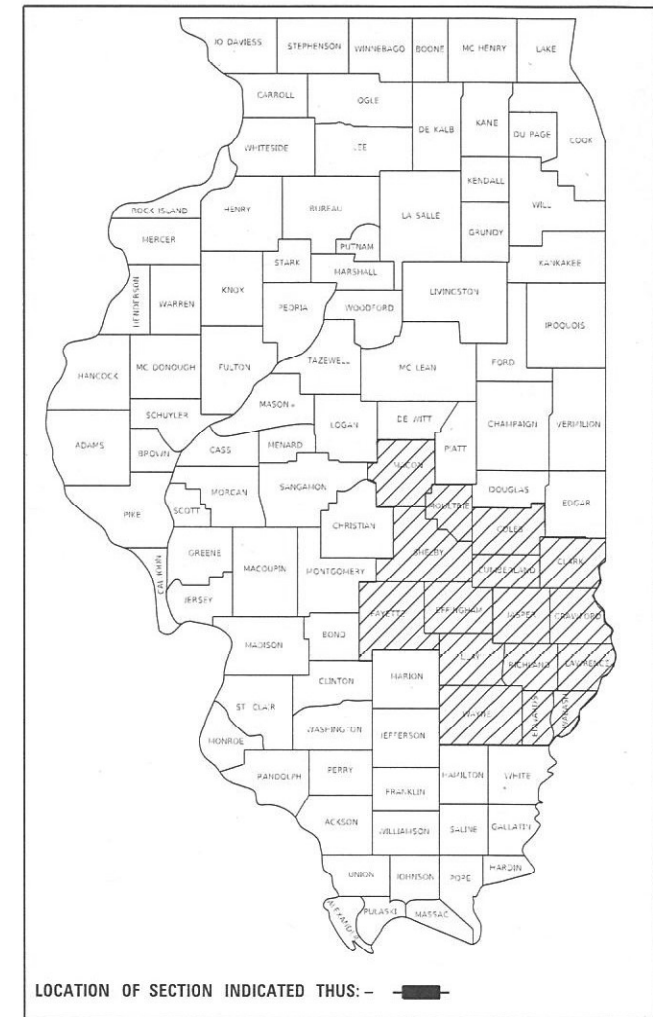
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
D7 GUARDRAIL 2024-1

GUARDRAIL REPAIRS
VARIOUS COUNTIES

C-97-102-23



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

PROJECT ENGINEER BRIAN LEWIS
PROJECT MANAGER BRIAN LEWIS

CONTRACT NO. 74C30

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED April 3 2023
Jeffery P. Myerles REGIONAL ENGINEER
May 12, 2023
Scott A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT
May 12, 2023
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS PROJECT IS LOCATED ON VARIOUS ROUTES IN SIXTEEN COUNTIES ALL LOCATED WITHIN DISTRICT 7. THE WORK INCLUDED IN THIS SECTION CONSISTS OF VARIOUS TYPES OF GUARDRAIL REPAIR AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THIS PROJECT INCLUDES REPAIRS OF EXISTING DAMAGE AT KNOWN LOCATIONS AND REPAIRS OF FUTURE DAMAGE ON AN ON-CALL BASIS.

A VIRTUAL FIELD CHECK IS POSSIBLE BY SEARCHING THE COORDINATES OF ANY LOCATION IN GOOGLE MAPS AND GOING TO STREET VIEW. IMAGES THERE MAY NOT BE UP TO DATE.

REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY SHALL BE DELINEATED WITH LIGHTED BARRICADES. NO LOCATIONS SHALL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.

THE LIMITS OF THE DAMAGED GUARDRAIL WILL BE MARKED WITH PAINT. THE REPLACEMENT PARTS AND THE QUANTITIES INDICATED ARE WITHIN THESE LIMITS AS MARKED.

THE CONTRACTOR IS ADVISED THAT THE GUARDRAIL PAY ITEMS INCLUDED IN THE PLANS MAY BE USED TO REPLACE/REPAIR SPBGR AND TRAFFIC BARRIER TERMINALS FOR THE MIDWEST GUARDRAIL SYSTEM AS SHOWN IN THE HIGHWAY STANDARDS AS WELL AS SPBGR AND TRAFFIC BARRIER TERMINALS INSTALLED PRIOR TO JAN. 1, 2007. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UTILIZING THE CURRENT MIDWEST GUARDRAIL SYSTEM STANDARD.

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>ITEM</u>
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES & LIST OF STANDARDS
3-4	SUMMARY OF QUANTITIES
5	SCHEDULE OF QUANTITIES
6-11	LOCATION MAPS BY COUNTY
12	SAND BARREL DETAILS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

<u>STD. NO.</u>	<u>DESCRIPTION</u>
630001-12	STEEL PLATE BEAM GUARDRAIL
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
631033-09	TRAFFIC BARRIER TERMINAL, TYPE 6B
636001-02	CABLE ROAD GUARD SINGLE STRAND
643001-02	SAND MODULE IMPACT ATTENUATORS
665001-02	WOVEN WIRE FENCE
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701426-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NONTRAVERSABLE MEDIAN
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS

REV. - MS

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																		
D7 GUARDRAIL 2024-1	VARIOUS	ILLINOIS	12	2																		
CONTRACT NO. 74C30																						

100% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021 MCHD	0021 CONT. MAINT.
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	1	1
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	1	1
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	1	1
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	35	25	10
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	3	2	1
63600105	CABLE ROAD GUARD, SINGLE STRAND	FOOT	200	100	100
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1		1
66500105	WOVEN WIRE FENCE, 4'	FOOT	200	100	100
67100100	MOBILIZATION	L SUM	1	0.5	0.5
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	35	26	9
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	150	100	50
X6300210	GUARDRAIL BLOCKS	EACH	650	400	250

100% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021 MCHD	0021 CONT. MAINT.
X6300215	RAIL ELEMENT PLATES	EACH	370	250	120
X6300217	RAIL ELEMENT PLATES (RADIUS)	EACH	8	6	2
X6300220	EXTRUDER HEAD	EACH	2	1	1
X6300225	SINGLE END SECTION	EACH	2	1	1
X6300231	STEEL POST, ATTACHED TO STRUCTURES	EACH	6	4	2
X6300236	STEEL POSTS 6'	EACH	320	220	100
X6431220	REMOVE AND REPLACE IMPACT ATTENUATOR SAND MODULE	EACH	10	5	5
Z0008760	EMERGENCY WORK CALL OUT	EACH	2	1	1
Z0029658	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - POST	EACH	2	1	1
Z0052410	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	2	1	1
Z0052415	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (FLARED)	EACH	2	1	1
Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3	2	1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2024-1	VARIOUS	12	3
			CONTRACT NO. 74C30	
		ILLINOIS	FED. AID PROJECT	

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Map Location	Route	County	Nearest Municipality	Latitude	Longitude	MCHD or Contract Maintenance	Claim Number	Rail Element Plates (Each)	Guardrail Blocks (Each)	Steel Posts 6' (Each)	Repair Traffic Barrier Terminal Type 2 (Each)	Traffic Barrier Terminal Type 1 (Special) Tangent (Each)	Traffic Barrier Terminal Type 1 (Special) Flared (Each)	Impact Attenuators (Non-Redirective), Test Level 3	Terminal Marker - Direct Applied (Each)	Guardrail Reflectors, Type A (Each)
1	I-57 NB MP 187.3	COLES	MATTOON	39.45485	-88.33500	MCHD	833903	2	1	1	1					
2	IL 16 EB	COLES	CHARLESTON	39.48404	-88.20549	MCHD	833891	8	10	10						
3	I-57 SB MP 190	COLES	MATTOON	39.48545	-88.32197	MCHD	833905	1	2	1						
4	I-57 EXIT 190B	COLES	MATTOON	39.48606	-88.32075	MCHD	833906	2	3	3						
5	I-57 NB MP 190.2	COLES	MATTOON	39.49058	-88.32192	MCHD	833893	4	4	3			1		1	
6	IL 316	COLES	MATTOON	39.50668	-88.27333	MCHD	833892					1			1	
7	I-57 SB MP 196	COLES	HUMBOLDT	39.57552	-88.31306	MCHD	833904						1		1	1
8	I-57 SB MP 197	COLES	HUMBOLDT	39.58728	-88.31090	MCHD	833895	8	13							2
9	I-70 WB MP 118.5	CUMBERLAND	GREENUP	39.25451	-88.16585	MCHD	833908	6	8	5						
10	I-70 EB MP 124.3	CUMBERLAND	CASEY	39.28251	-88.06520	CM		3	6			1			1	1
11	I-70 WB MP 124.4	CUMBERLAND	CASEY	39.28263	-88.06217	CM		1				1			1	1
12	I-57 NB MP 179	CUMBERLAND	NEOGA	39.36390	-88.41789	MCHD	833909	4	3	3		1			1	1
13	I-57 SB MP 148	EFFINGHAM	MASON	38.97577	-88.62079	MCHD	833899	2				1			1	1
14	I-57 MEDIAN MP 153	EFFINGHAM	WATSON	39.03315	-88.58689	CM								1		
15	I-57 NB MP 153	EFFINGHAM	WATSON	39.03315	-88.58689	CM						1			1	1
16	I-57 SB MP 153	EFFINGHAM	WATSON	39.03315	-88.58689	CM		7	12	5		1				
18	IL 33 EB	EFFINGHAM	DIETERICH	39.09003	-88.44269	MCHD	833896	2	1	1						
19	I-70 WB	EFFINGHAM	EFFINGHAM	39.09697	-88.57972	MCHD	833898	4	3	2						
20	I-57/70 EB (I-57 NB RAMP)	EFFINGHAM	EFFINGHAM	39.14920	-88.50966	MCHD	833897	1				1			1	1
21	I-57/70 MP 162.5 (I-70 EB RAMP)	EFFINGHAM	EFFINGHAM	39.15183	-88.50889	MCHD	833900					1			1	1
22	I-57 NB MP 164	EFFINGHAM	EFFINGHAM	39.15999	-88.50622	CM						1			1	1
23	I-70 EB MP 66	FAYETTE	VANDALIA	38.97534	-89.03957	MCHD	833902	2	2	2						
24	I-70 WB MP 76	FAYETTE	ST. ELMO	39.01400	-88.84899	MCHD	833901	4								
25	IL 33 NB	LAWRENCE	RUSSELVILLE	38.83509	-87.53418	MCHD	833894					1			1	
26	US 51 NB N OF GORDON ST	MACON	MOWEAQUA	39.64313	-89.01055	MCHD	833910	2				1			1	1
27	WEST SOUTH SIDE DRIVE @ S MONROE	MACON	DECATUR	39.82353	-88.96187	MCHD	833911	4	8	8		1			1	1
28	I-72 EB MP 134	MACON	HARRISTOWN	39.84511	-89.04564	MCHD	833913	4	6	6						
29	NW IL 121 W OF UNIVERSITY AVE	MACON	DECATUR	39.87621	-88.97627	MCHD	833912					1			1	
							TOTALS:	71	82	50	1	14	2	1	15	13

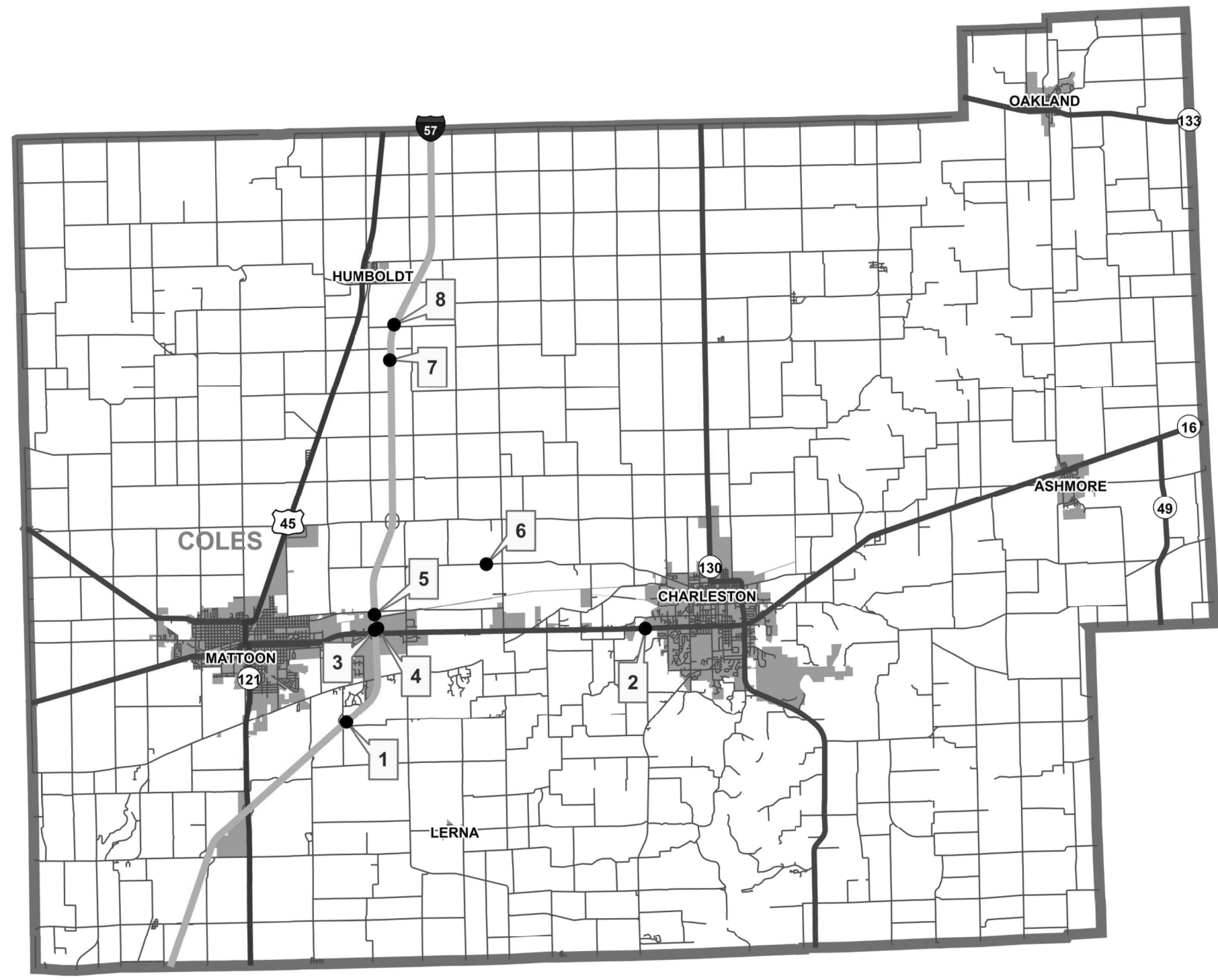
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION-SPECIFIC QUANTITIES
SCHEDULE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2024-1	VARIOUS	12	5
			CONTRACT NO. 74C30	
		ILLINOIS	FED. AID PROJECT	



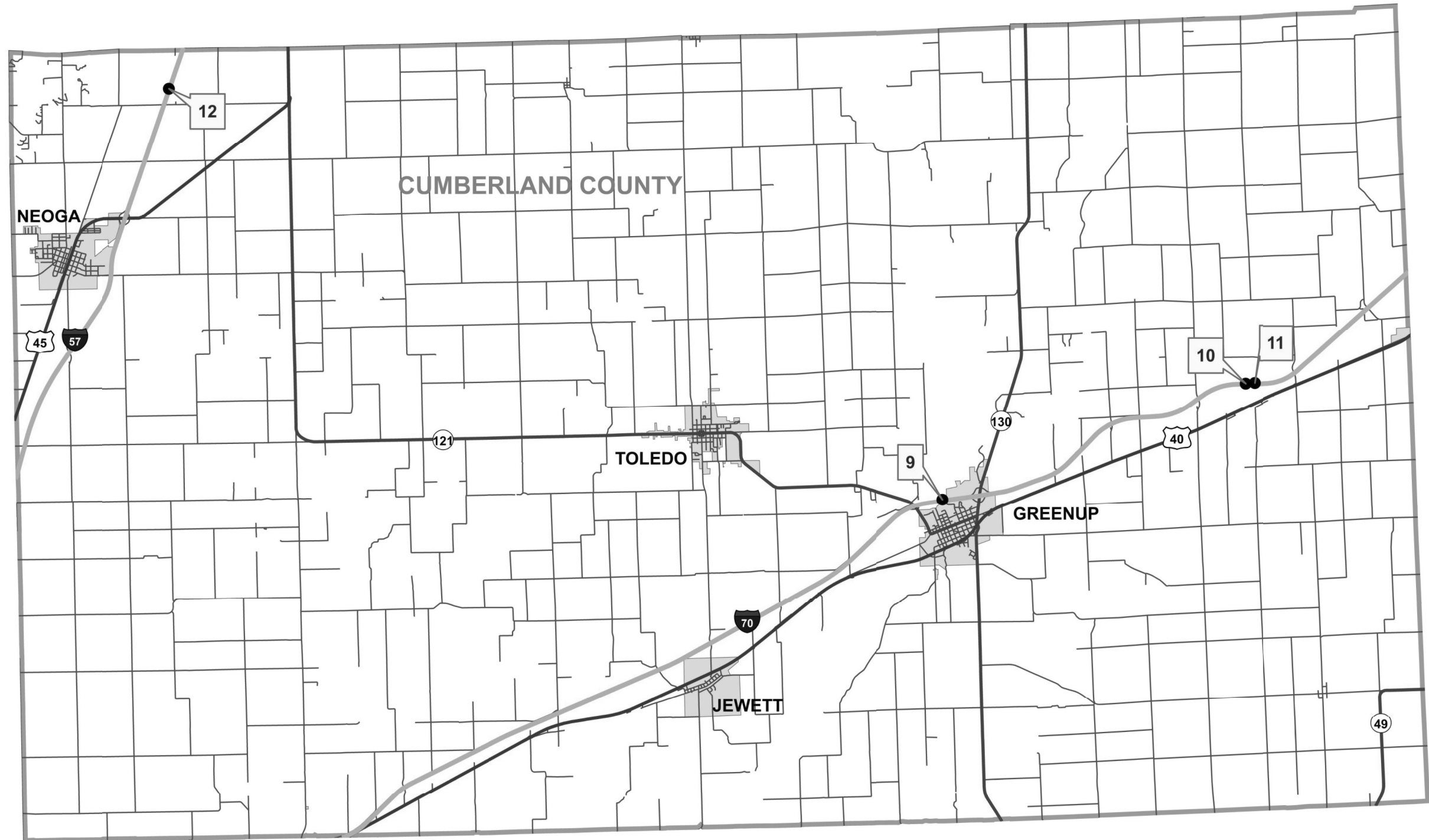
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

COLES COUNTY LOCATIONS MAP				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2024-1	VARIOUS	12	6
			CONTRACT NO. 74C30	
ILLINOIS FED. AID PROJECT				



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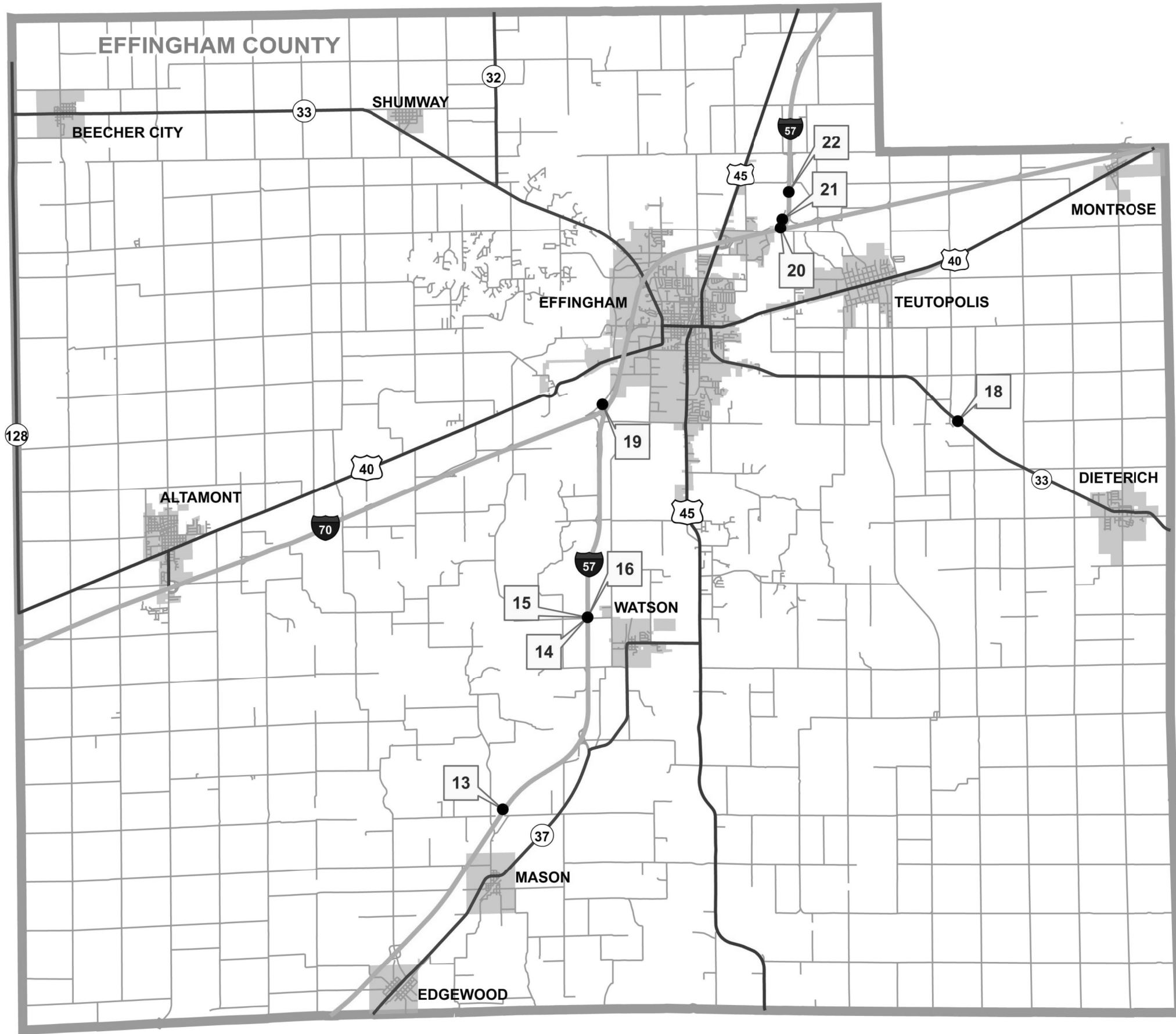
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

**CUMBERLAND COUNTY
 LOCATIONS MAP**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2024-1	VARIOUS	12	7
			CONTRACT NO. 74C30	
ILLINOIS FED. AID PROJECT				



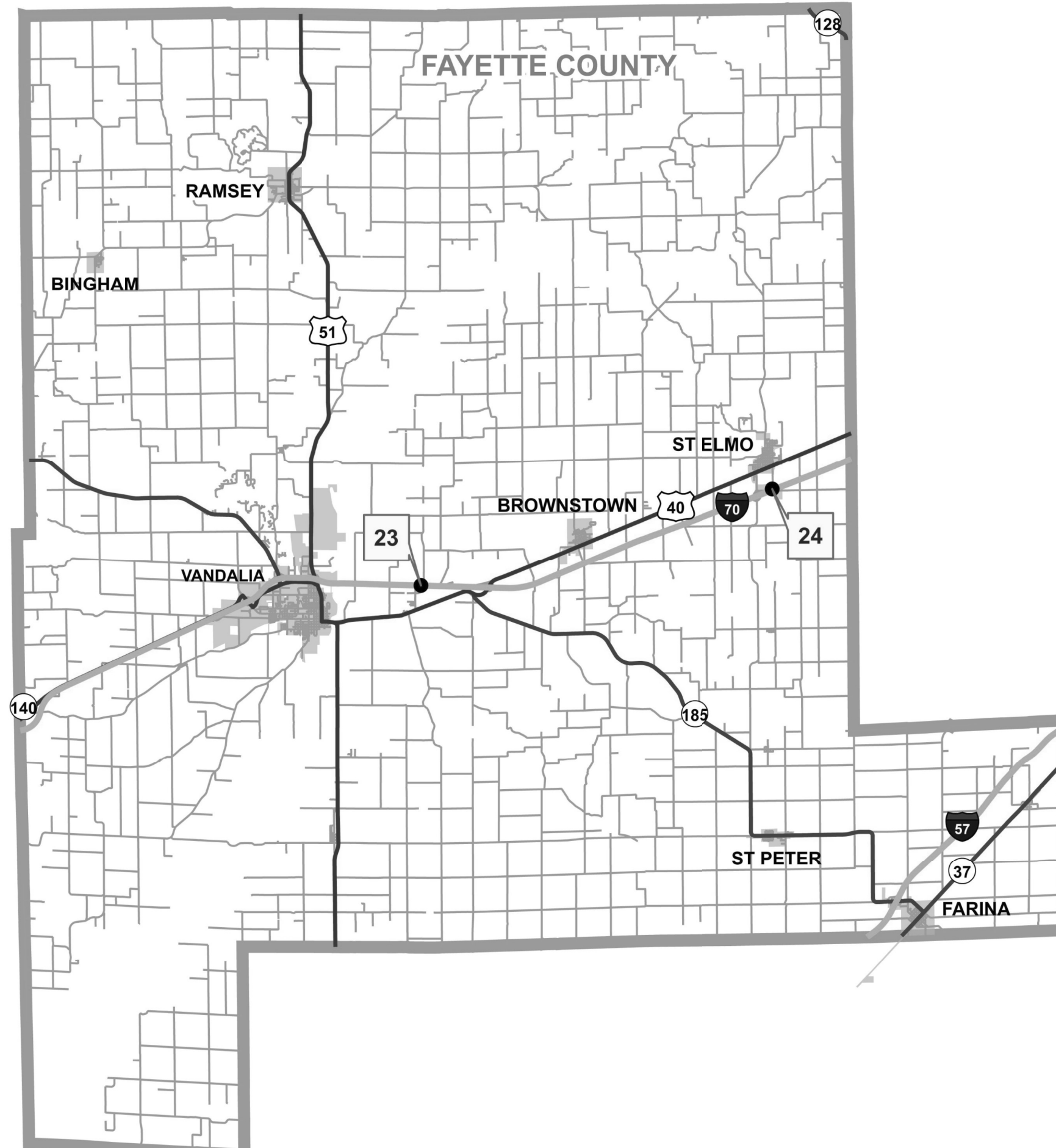
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EFFINGHAM COUNTY				
LOCATIONS MAP				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2024-1	VARIOUS	12	8
CONTRACT NO. 74C30				
ILLINOIS FED. AID PROJECT				



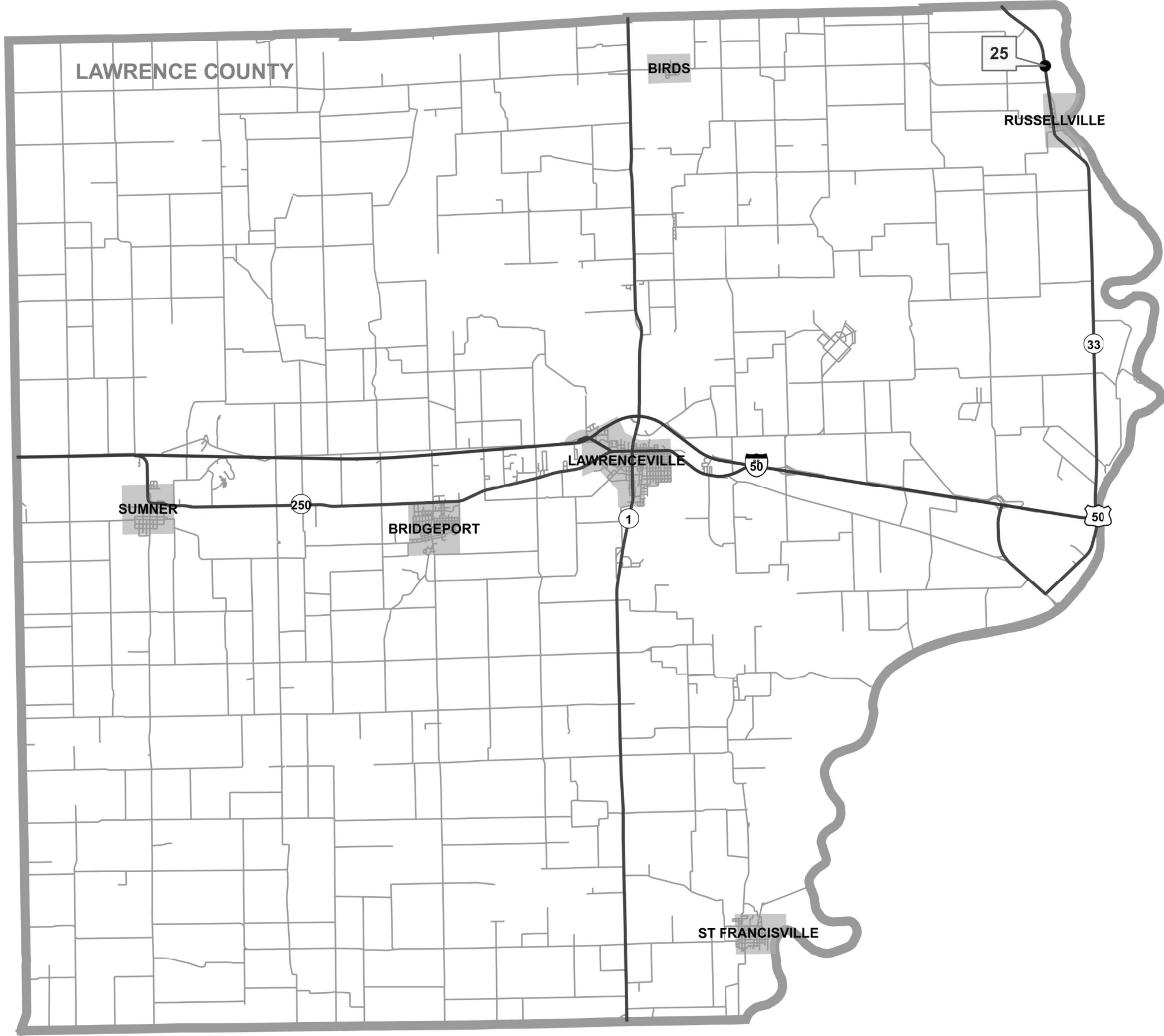
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAYETTE COUNTY LOCATIONS MAP				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2024-1	VARIOUS	12	9
			CONTRACT NO. 74C30	
ILLINOIS FED. AID PROJECT				



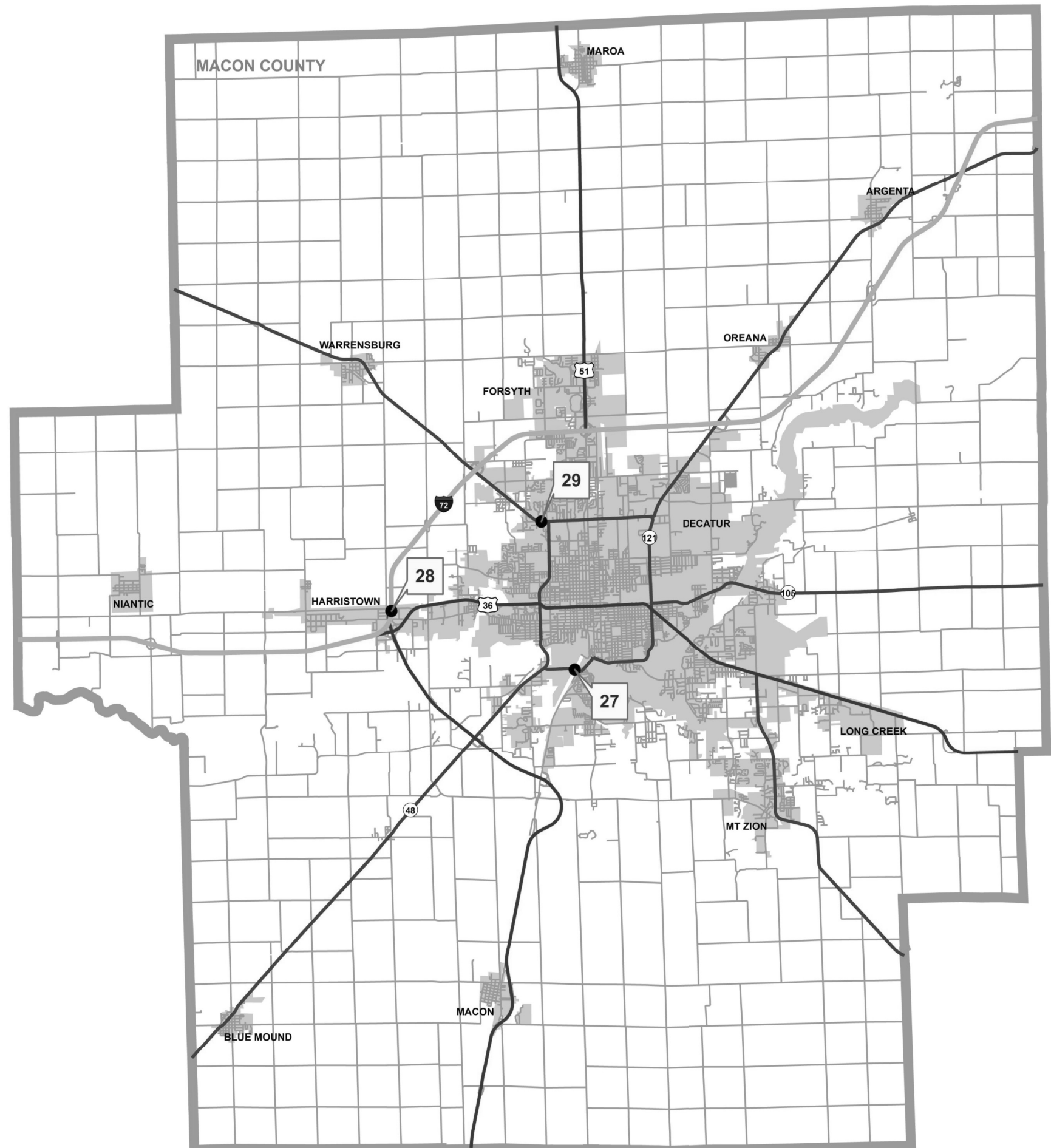
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STATE OF ILLINOIS
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LAWRENCE COUNTY	
LOCATIONS MAP	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2024-1	VARIOUS	12	10
			CONTRACT NO. 74C30	
ILLINOIS FED. AID PROJECT				



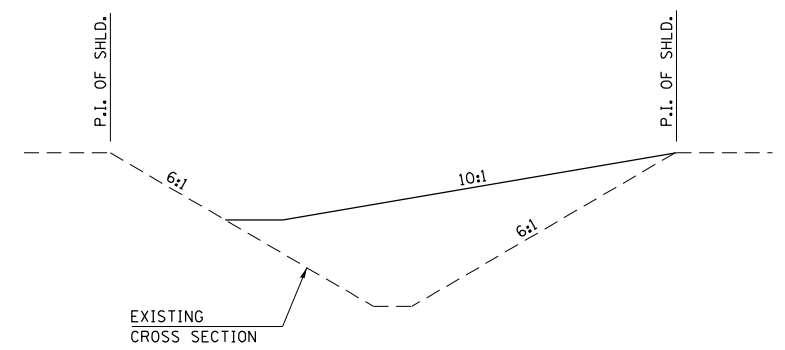
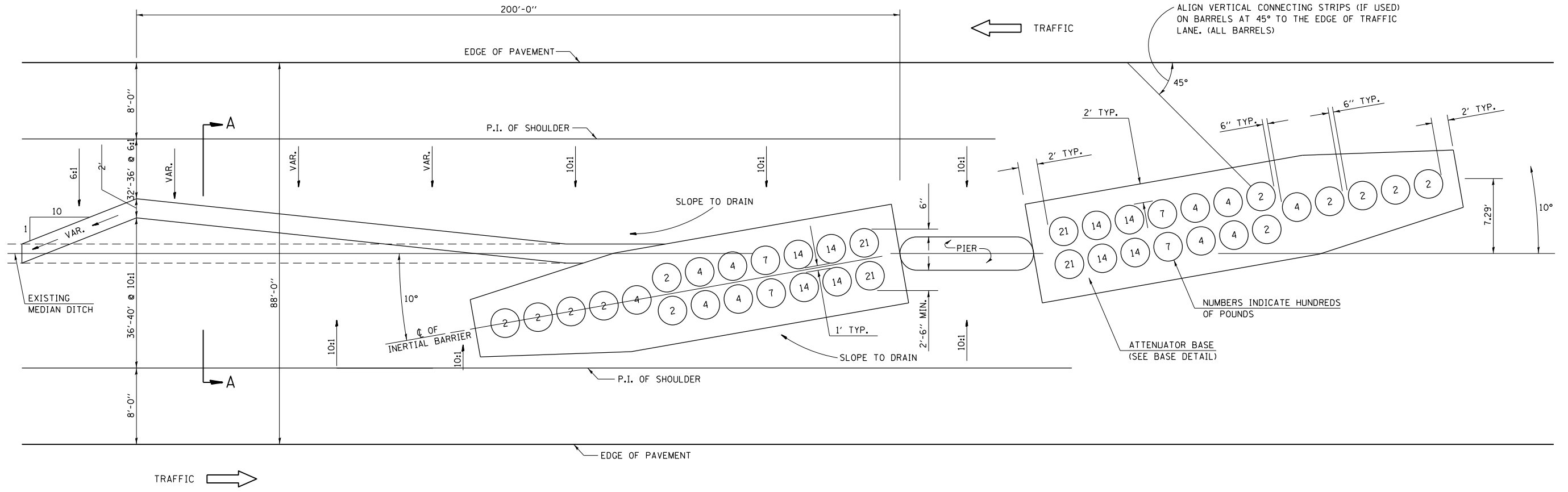
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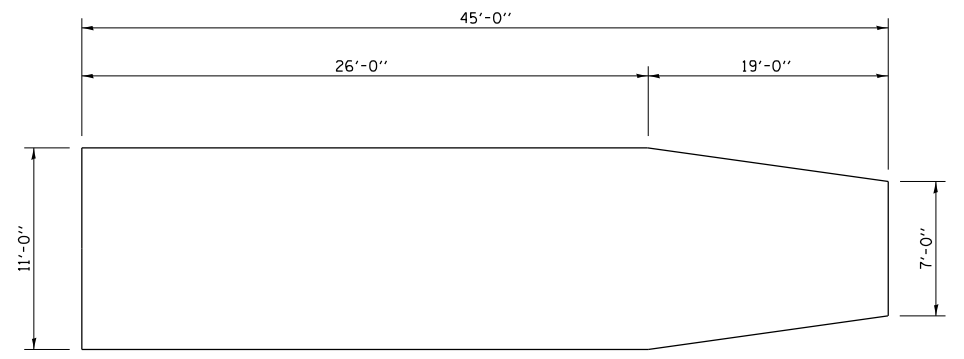
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MACON COUNTY	
LOCATIONS MAP	
SCALE:	SHEET OF SHEETS STA. TO STA.

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	D7 GUARDRAIL 2024-1	VARIOUS	11	11
			CONTRACT NO. 74C30	
ILLINOIS FED. AID PROJECT				



SECTION A-A
GRADING AND SHAPING DETAIL



BASE DETAIL

GENERAL NOTES

1. ALL 10:1 SLOPES SHOWN ON THIS DETAIL SHALL BE CONSTRUCTED 10:1 OR FLATTER.
2. THE SLOPES AS SHOWN ON THIS DETAIL SHALL APPLY TO BOTH ENDS OF THE BRIDGE PIERS.
3. THE LENGTH X WIDTH OF MODULE LAYOUT IS 41.0' x 7.0': 19 MODULES - 14,400 LBS.
4. IN AREAS OF 10:1 SLOPES PRECEDING THE ATTENUATOR IN THE MEDIAN INSTALLATION, FOUR OR MORE WOOD POSTS SHALL BE PLACED AT 5' INTERVALS IN THE MEDIAN ϕ . SEE SPECIAL PROVISIONS AND SCHEDULES.

NOTE:
This sheet applies ONLY when making partial repair of an existing sand barrel array that was installed according to this drawing. Use Standard 643001 for a complete replacement.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SAND BARREL DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

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	D7 GUARDRAIL 2024-1	VARIOUS	12	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74C30	