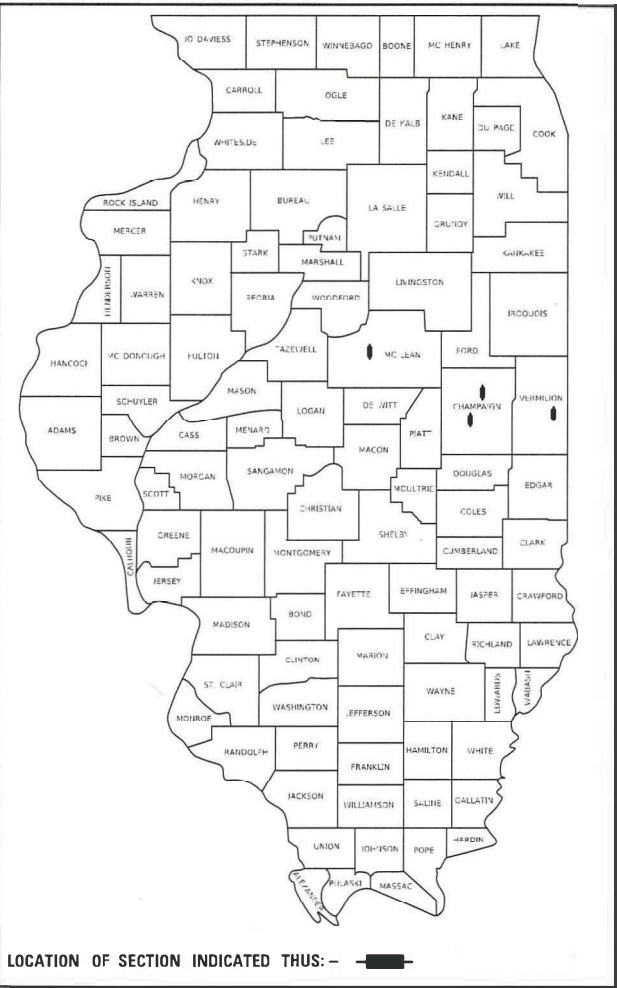


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-1	*	23	1

McLEAN
CHAMPAIGN
VERMILION

D95-017-21



LOCATION OF SECTION INDICATED THUS: —

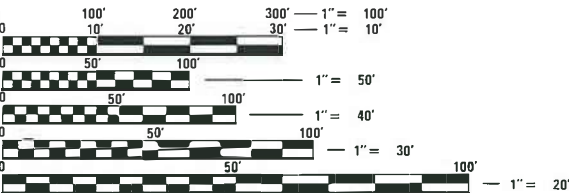
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

VARIOUS ROUTES
SECTION 2022 ITS-1
PROJECT
ITS / ATMS
VARIOUS COUNTIES

C-95-035-21

FOR LOCATION MAPS, SEE SHEETS NO. 7 - 12, 15, 17, 20, 22



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: JEFF ALLEN
PROJECT MANAGER: ROGER BIGGS

CONTRACT NO. 70F22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3/17 2021
Kenil D. Barnett REGIONAL ENGINEER

May 7, 2021 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

1 THE FINAL LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
2 DETECTOR LOOP DESIGNATIONS FOR THE NORTH APPROACH ARE NOTED AS "A","B" FOR THE SOUTH APPROACH,
"C" FOR THE WEST APPROACH, AND "D" FOR THE EAST APPROACH.
3 EXISTING ITEMS REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR EXCEPT FOR THE FOLLOWING ITEMS:

PERIPHERAL EQUIPMENT (AS DESCRIBED IN ARTICLE 1074.03 OF STANDARD SPECIFICATIONS)
UNINTERRUPTIBLE POWER SUPPLY UNITS
VIDEO DETECTION EQUIPMENT

1	COVER SHEET
2	GENERAL NOTES, TRAFFIC SIGNAL GENERAL NOTES, STANDARDS TO BE INCLUDED IN PLANS
3 - 4	SUMMARY OF QUANTITIES
5 - 6	SCHEDULE OF QUANTITIES
7	LOCATION MAP; BLOOMINGTON - SOUTHWEST
8	LOCATION MAP; BLOOMINGTON - SOUTHEAST
9	LOCATION MAP; BLOOMINGTON-NORMAL WEST CENTRAL
10	LOCATION MAP; BLOOMINGTON-NORMAL EAST CENTRAL
11	LOCATION MAP; NORMAL - NORTHWEST
12	LOCATION MAP; NORMAL - NORTHEAST
13	IL. 9 & SERVICE DR. - IL. 9 & PROSPECT RD. PLAN SHEET
14	IL. 9 & HERSHEY RD. PLAN SHEET
15	LOCATION MAP - CHAMPAIGN
16	IL. 10 & STALEY RD. - IL. 10 & DUNCAN RD. PLAN SHEET
17	LOCATION MAP - SAVOY
18	U.S. 45 & CURTIS RD.; U.S. 45 & CHURCH ST. PLAN SHEET
19	U.S. 45 & WILLARD AIRPORT RD.; U.S. 45 & HOLDEN ST. PLAN SHEET
20	LOCATION MAPS - TOLONO; DANVILLE
21	IL. 1 & WILLIAMS ST.; U.S. 45 & CHANDLER RD. PLAN SHEET
22	LOCATION MAP - RANTOUL
23	DETAILS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) TO 24" (600 MM) FROM PAVMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 MM) FROM F
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
857006-01	SUPERVISED RAILROAD INTERCONNECT CIRCUIT
862001-01	UNINTERRUPTABLE POWER SUPPLY
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-1	x	23	2
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22		
ILLINOIS		FED. AID PROJECT		

SUMMARY OF QUANTITIES

LOCATION OF WORK:				VARIOUS ROUTES		VARIOUS ROUTES		VARIOUS ROUTES	
COUNTY:				McCLEAN 100% STATE		CHAMPAIGN 100% STATE		VERMILION 100% STATE	
FUNDING BREAKOUT:				URBAN					
CONSTRUCTION TYPE CODE:				0021		0021		0021	
				TOTAL					
CODE NO.	ITEM	UNIT	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY		
67100100	MOBILIZATION	L SUM	1.0	.4	.4	.2			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.0		.8	.2			
80500100	SERVICE INSTALLATION, TYPE A	EACH	4.0		3.0	1.0			
85700300	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	3.0	3.0					
85700310	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	8.0		7.0	1.0			
86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	11.0	3.0	7.0	1.0			
88500500	INDUCTION LOOP DETECTOR AMPLIFIER	EACH	85.0	18.0	59.0	8.0			
89100400	ILLUMINATED SIGN, LED	EACH	24.0		22.0	2.0			
X0323071	SPARE FULL ACTUATED CONTROLLER, SPECIAL	EACH	18.0	18.0					
X0326248	ATMS SOFTWARE (CORE MODULE)	L SUM	1.0	1.0					
X0326266	ETHERNET SWITCH	EACH	11.0	3.0	7.0	1.0			
X1400351	WOOD POLE, 35 FT, CLASS 4	EACH	4.0		3.0	1.0			
X1400399	VIDEO DETECTION SYSTEM COMPLETE	EACH	3.0	1.0	2.0				
X1400440	ETHERNET CONVERTER	EACH	24.0	24.0					

MODEL: 43MODEL.NAMES
FILE: \\nrcs-prod1\mcom\cadd\illinois\gov\PIWIDOT\Documents\IDOT_Office\District_5\Projects\0570F22\CADD\DATA\Design\0570F22_2ht.dwg

SUMMARY OF QUANTITIES

LOCATION OF WORK:

VARIOUS ROUTES

VARIOUS ROUTES

VARIOUS ROUTES

COUNTY:

McCLEAN
100% STATE

CHAMPAIGN
100% STATE

VERMILION
100% STATE

FUNDING BREAKOUT:

URBAN

0021

0021

0021

CONSTRUCTION TYPE CODE:[illegible]

	USER NAME = bfggsrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -							VAR.	2022 ITS-1	*	23	4
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -		*McLEAN, CHAMPAIGN, VERMILION CONTRACT NO. 70F22									
	PLOT DATE = 2/17/2021	DATE	REVISED											
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.				

SCHEDULES

FULL-ACTUATED CONTROLLER IN EXISTING CABINET

	<u>Location</u>	<u>Quantity</u>	<u>Unit</u>	<u>Location</u>	<u>Quantity</u>	<u>Unit</u>	<u>Location</u>	<u>Quantity</u>	<u>Unit</u>
1	VP & Hamilton	1	Each	35 US 51 NB & Oakland	1	Each	70 US 150 & Yuton Rd.	1	Each
2	VP & Morris	1	Each	36 US 51 SB & Oakland	1	Each	71 US 150 & Interstate	1	Each
3	VP & Greenwood	1	Each	37 US 51 NB & Olive	1	Each	72 US 150 & Walmart Ent(Walton Dr)	1	Each
4	VP & Commerce	1	Each	38 US 51 SB & Olive	1	Each	73 US 150 & JC Pkwy	1	Each
5	VP & Morissey	1	Each	39 US 51 NB & Front	1	Each	74 US 150 & Wylie	1	Each
6	VP & Brickyard	1	Each	40 US 51 SB & Front	1	Each	75 US 150 & I-55 W. Ramp	1	Each
7	VP & Mercer	1	Each	41 US 51 NB & Washington	1	Each	76 US 150 & I-55 E. Ramp	1	Each
8	VP & Ireland Grove	1	Each	42 US 51 SB & Washington	1	Each	77 US 150 & Brock Dr./Truckers Lane	1	Each
9	VP & Lincoln	1	Each	43 US 51 NB & Jefferson	1	Each	78 US 150 & MLK	1	Each
10	VP & Oakland	1	Each	44 US 51 SB & Jefferson	1	Each	79 US 150 & Caroline	1	Each
11	VP & Jackson	1	Each	45 US 51 NB & Monroe	1	Each	80 US 150 & Brown	1	Each
12	VP & Washington	1	Each	46 US 51 NB & Market	1	Each	81 US 150 & Hinshaw	1	Each
13	VP & Eastland	1	Each	47 US 51 SB & Market	1	Each	82 Clinton & Empire	1	Each
14	VP & Empire South	1	Each	48 US 51 NB & Locust	1	Each	83 Clinton & Locust	1	Each
15	VP & Empire West	1	Each	49 US 51 SB & Locust	1	Each	84 Clinton & Washington	1	Each
16	VP & Empire Central	1	Each	50 US 51 SB & Chestnut	1	Each	85 Clinton & Grove	1	Each
17	VP & Empire East	1	Each	51 US 51 NB & Empire	1	Each	86 Clinton & Oakland	1	Each
18	VP & Empire North	1	Each	52 US 51 SB & Empire	1	Each	87 Oakland & Bunn	1	Each
19	VP & Clearwater	1	Each	53 US 51 NB & Emerson	1	Each	88 Oakland & Hannah	1	Each
20	VP & GE/Vernon	1	Each	54 US 51 SB & Emerson	1	Each	89 Morrissey & Lincoln	1	Each
21	VP & Jumer	1	Each	55 US 51 NB & Virginia	1	Each	90 Morrissey & Lafayette	1	Each
22	VP & College	1	Each	56 US 51 NB & Hovey/Beaufort	1	Each	91 Morrissey & Hamilton	1	Each
23	VP & Parkway	1	Each	57 US 51 SB & Hovey	1	Each	92 Morrissey & Unit 5 Middle Sch Ent.	1	Each
24	VP & Fort Jesse	1	Each	58 US 51 NB & Dry Grove	1	Each	93 Locust & Colton	1	Each
25	VP & I-55 S. Ramp	1	Each	59 US 51 & College	1	Each	94 Locust & High Sch (Victory Lane)	1	Each
26	VP & I-55 N. Ramp	1	Each	60 US 51 & Willow	1	Each	95 Empire & Towanda	1	Each
27	US 51 & Hamilton	1	Each	61 US 51 & Bowles/Gregory	1	Each	96 Empire & Fairway	1	Each
28	US 51 & Oakcreek Plaza	1	Each	62 US 51 & Orlando	1	Each	97 Empire & Gettysburg/Williamsburg	1	Each
29	US 51 & VP S. Ramp	1	Each	63 US 51 & Raab	1	Each	98 Empire & Fire Station No. 3	1	Each
30	US 51 & VP N. Ramp	1	Each	64 US 51 & I-55 S. Ramp	1	Each	99 Empire & Eastport/Commercial	1	Each
31	US 51 NB & Wood	1	Each	65 US 51 & I-55 N. Ramp	1	Each	100 Empire & Carnahan	1	Each
32	US 51 SB & Wood	1	Each	66 US 51 & Northtown	1	Each	101 Empire & Airport Rd.	1	Each
33	US 51 NB & MacArthur	1	Each	67 US 150 (Rivian) & IL 9	1	Each	102 Empire & CIRA West	1	Each
34	US 51 SB & MacArthur	1	Each	68 US 150 (Rivian) & S. Ent.	1	Each	103 Empire & CIRA East	1	Each
				69 US 150 (Rivian) & N. Ent.	1	Each	104 Empire & Towanda-Barnes	1	Each
								Total	= 104 Each

FILE NAME: D:\PROJECTS\2022\2022 ITS-1\2022 ITS-1.dwg	USER NAME = biggsrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						VAR.	2022 ITS-1	*	23	5
	PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -		*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22						
	PLOT DATE = 3/17/2021	DATE -	REVISED -										
					SCALE:	SHEET 1 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

SCHEDULES

RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET

	<u>Location</u>	<u>Quantity</u>	<u>Unit</u>
	<u>Champaign</u>		
1	IL 10(Springfield Ave) & Staley Rd	1	Each
2	IL 10(Springfield Ave) & Duncan Rd	1	Each
	<u>Savoy</u>		Each
1	US 45(Dunlap Ave) & Curtis Rd	1	Each
2	US 45(Dunlap Ave) & Church St	1	Each
3	Us 45(Dunlap Ave) & Airport Rd	1	Each
	<u>Tolono</u>		
1	US 45(Long St)	1	Each
	<u>Danville</u>		
1	US 136(Gilbert St) & Williams St	1	Each
	<u>Rantoul</u>		
1	US 45(Liberty Ave)	<u>1</u>	Each
	Total	= 8	Each

FULL-ACTUATED CONTROLLER AND TYPE V CABINET

<u>Location</u>	<u>Quantity</u>	<u>Unit</u>
<u>Bloomington</u>		
105 IL 9(Empire St) & Service Dr	1	Each
106 IL 9(Empire St) & Prospect/Mt Vernon Dr	1	Each
107 IL 9(Empire St) & Hershey Rd	<u>1</u>	Each
Total =	3	Each

UNINTERRUPTIBLE POWER SUPPLY

ETHERNET SWITCH

	<u>Location</u>	<u>Quantity</u>	<u>Unit</u>
	<u>Champaign</u>		
1	IL 10(Springfield Ave) & Staley Rd	1	Each
2	IL 10(Springfield Ave) & Duncan Rd	1	Each
	<u>Savoy</u>		Each
1	US 45(Dunlap Ave) & Curtis Rd	1	Each
2	US 45(Dunlap Ave) & Church St	1	Each
3	Us 45(Dunlap Ave) & Airport Rd	1	Each
	<u>Tolono</u>		
1	US 45(Long St)	1	Each
	<u>Danville</u>		
1	US 136(Gilbert St) & Williams St	1	Each
	<u>Rantoul</u>		
1	US 45(Liberty Ave)	1	Each
	<u>Bloomington</u>		
105	IL 9(Empire St) & Service Dr	1	Each
106	IL 9(Empire St) & Prospect Rd/Mt Vernon Dr	1	Each
107	IL 9(Empire St) & Hershey Rd	<u>1</u>	Each
	Total	= 11	Each

SERVICE INSTALLATION, TYPE A

WOOD POLE, 35 FT, CLASS 4

	<u>Location</u>	<u>Quantity</u>	<u>Unit</u>
	<u>Champaign</u>		
1	IL 10(Springfield Ave) & Staley Rd	1	Each
2	IL 10(Springfield Ave) & Duncan Rd	1	Each
	<u>Tolono</u>		
1	US 45(Long St) & Holden St	1	Each
	<u>Danville</u>		
1	US 136(Gilbert St) & Williams St	<u>1</u>	Each
	Total	= 4	Each

SERVICE INSTALLATION, TYPE A (MODIFIED)

	<u>Location</u>	<u>Quantity</u>	<u>Unit</u>
	<u>Savoy</u>		
1	US 45(Dunlap Ave) & Curtis Rd	1	Each
2	US 45(Dunlap Ave) & Church St	1	Each
3	US 45(Dunlap Ave) & Airport Rd	1	Each
	<u>Rantoul</u>		
1	US 45(Liberty Ave) & Chandler Rd	1	Each
	<u>Bloomington</u>		
105	IL 9(Empire St) & Service Dr	1	Each
106	IL 9(Empire St) & Prospect Rd/Mt Vernon Dr	1	
107	IL 9(Empire St) & Hershey Rd	<u>1</u>	
	Total	= 7	Each

ILLUMINATED SIGN, LED

	<u>Location</u>	<u>Quantity</u>	<u>Unit</u>	<u>No Left Turn - MAM</u>	<u>No Left Turn - BM</u>	<u>No Right Turn - MAM</u>	<u>No Right Turn - BM</u>
	<u>Champaign</u>						
1	IL 10(Springfield Ave) & Staley Rd	4	Each	1	1	1	1
2	IL 10(Springfield Ave) & Duncan Rd	4	Each	1	1	1	1
	<u>Savoy</u>						
1	US 45(Dunlap Ave) & Curtis Rd	4	Each	1	1	1	1
2	US 45(Dunlap Ave) & Church St	4	Each	1	1	1	1
3	Us 45(Dunlap Ave) & Airport Rd	4	Each		2	1	1
	<u>Danville</u>						
1	US 136(Gilbert St) & Williams St	2	Each			1	1
	<u>Rantoul</u>						
1	US 45(Liberty Ave) & Chandler Rd	2	Each	1	1	MAM = Mastarm mounted	
						BM = Bracket mounted	
	Total	= 24	Each				

VIDEO DETECTION SYSTEM COMPLETE

	<u>Location</u>	<u>Quantity</u>	<u>Unit</u>
	<u>Bloomington</u>		
105	IL 9(Empire St) & Service Dr	1	Each
	<u>Champaign</u>		
1	IL 10(Springfield Ave) & Staley Rd	1	Each
2	IL 10(Springfield Ave) & Duncan Rd	<u>1</u>	Each
	Total -	3	Each

INDUCTIVE LOOP DETECTORS (Rack Mount)

	<u>Location</u>	<u>Quantity</u>	<u>Unit</u>
	<u>Champaign</u>		
	<u>Savoy</u>		Each
1	US 45(Dunlap Ave) & Curtis Rd	14	Each
2	US 45(Dunlap Ave) & Church St	11	Each
3	Us 45(Dunlap Ave) & Airport Rd	12	Each
	<u>Tolono</u>		
1	US 45(Long St) & Holden St	12	Each
	<u>Danville</u>		
1	US 136(Gilbert St) & Williams St	8	Each
	<u>Rantoul</u>		
1	US 45(Liberty Ave) & Chandler Rd	12	Each
	<u>Bloomington</u>		
105	IL 9(Empire St) & Service Dr	8	Each
106	IL 9(Empire St) & Prospect Rd/Mt Vernon Dr	<u>10</u>	Each
	total	= 87	Each

TRAFFIC SIGNAL MODIFICATIONS
BLOOMINGTON
SOUTHWEST LOCATION MAP

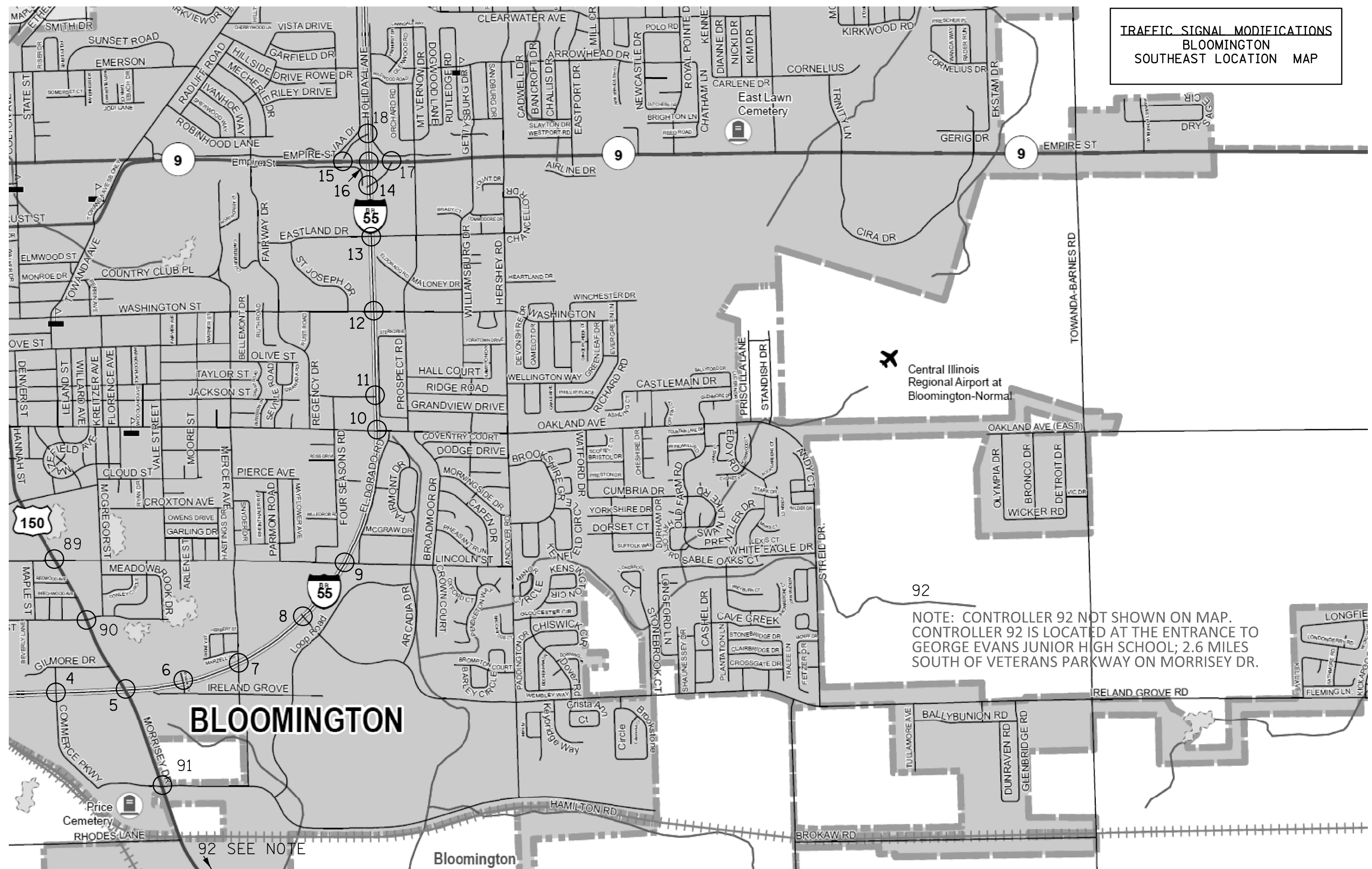
The map displays the southwest area of Bloomington, Indiana, with various streets and landmarks. Key features include:

- Major Roads:** I-55, I-74, US-51, Six Points Rd, and various local streets like Scogin Hill Rd, Jewish Cemetery Rd, and Hamilton Rd.
- Landmarks:** Scogin Hill Cemetery, Jewish Cemetery, and several residential areas.
- Geographical Features:** Sugar Creek, Timber Creek, and various ponds.
- Traffic Signal Modifications:** Indicated by numbered circles (1-30) along major roads and at intersections.

LOCATION MAP BLOOMINGTON – SOUTHWEST					
SCALE:	SHEET 1	OF 6	SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-1	*	23	7
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22		
		ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNAL MODIFICATIONS
BLOOMINGTON
SOUTHEAST LOCATION MAP



NOTE: CONTROLLER 92 NOT SHOWN ON MAP.
CONTROLLER 92 IS LOCATED AT THE ENTRANCE TO
GEORGE EVANS JUNIOR HIGH SCHOOL; 2.6 MILES
SOUTH OF VETERANS PARKWAY ON MORRISSEY DR.

BLOOMINGTON

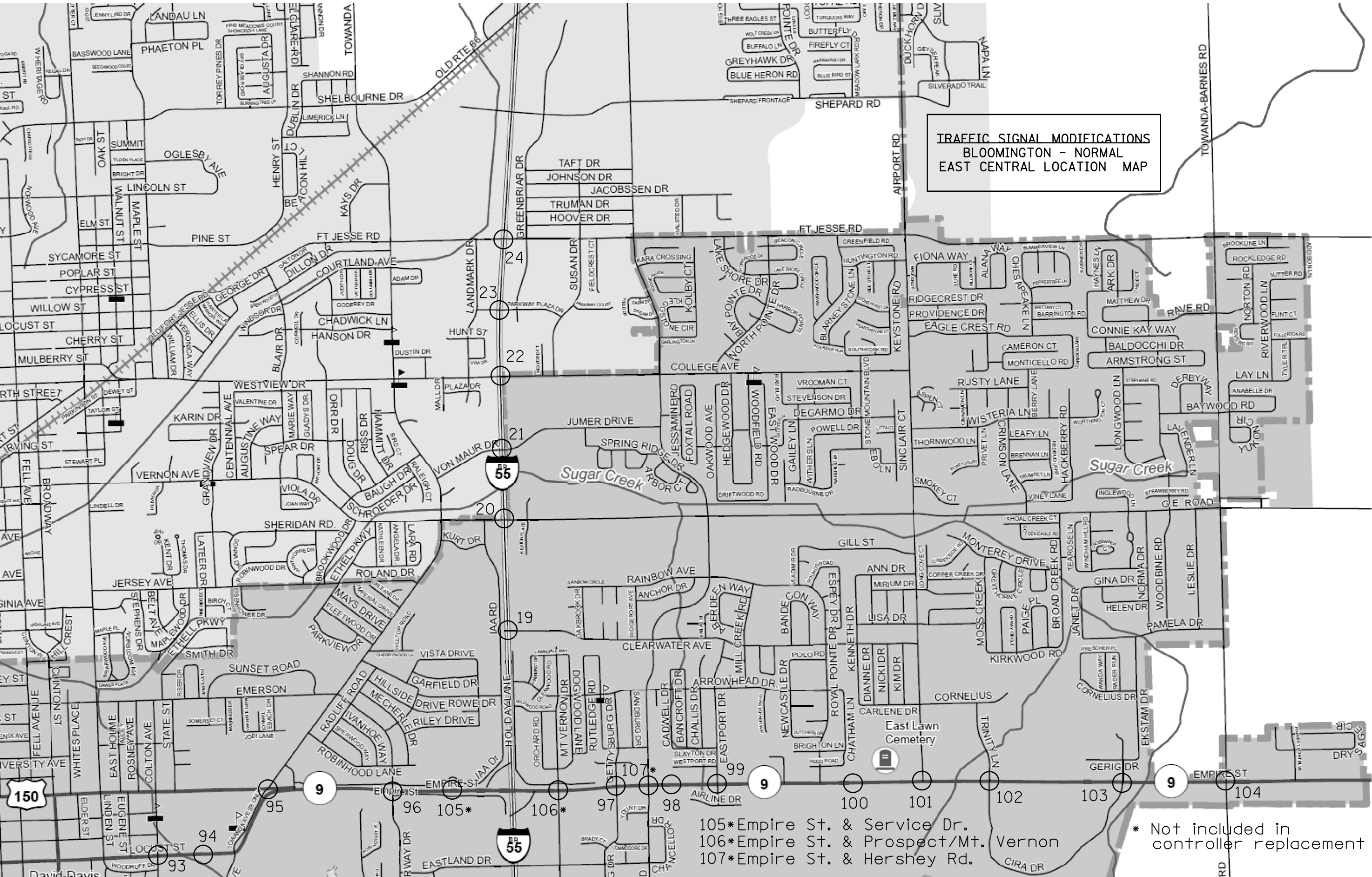
Bloomington

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP
BLOOMINGTON – SOUTHEAST

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-22	*	23	8
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22		
		ILLINOIS	FED. AID PROJECT	

MODEL: \$MODEL NAMES
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MODEL: 3/17/2021
FILE: 3/17/2021
PROJECT: 3/17/2021
DESIGN: 3/17/2021
DRAWN: 3/17/2021
CHECKED: 3/17/2021
DATE: 3/17/2021

USER NAME	= biggsrd	DESIGNED	-	REVISED	-
PLOT SCALE	= 100,000' / in.	DRAWN	-	REVISED	-
PLOT DATE	= 3/17/2021	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

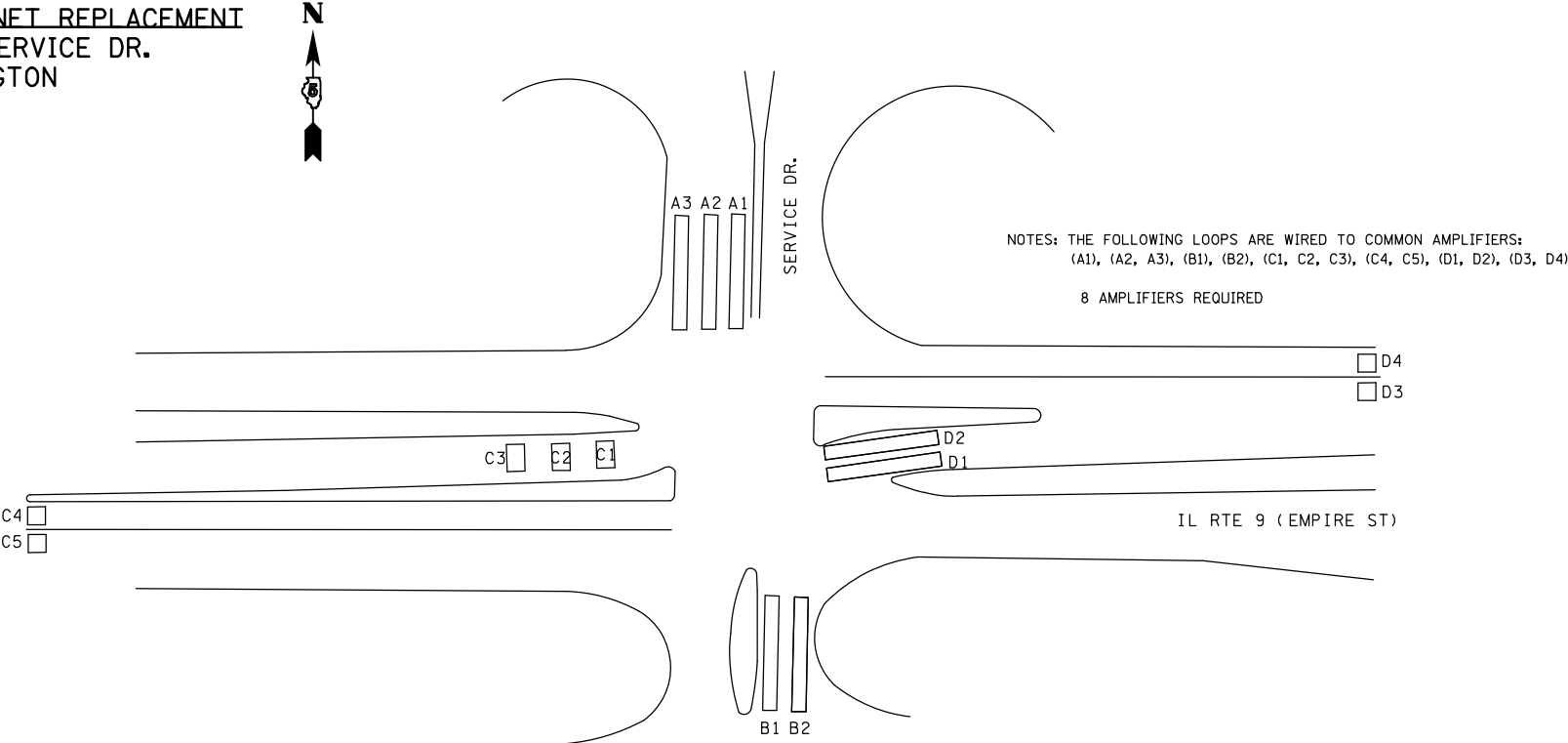
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP
BLOOMINGTON-NORMAL EAST CENT.

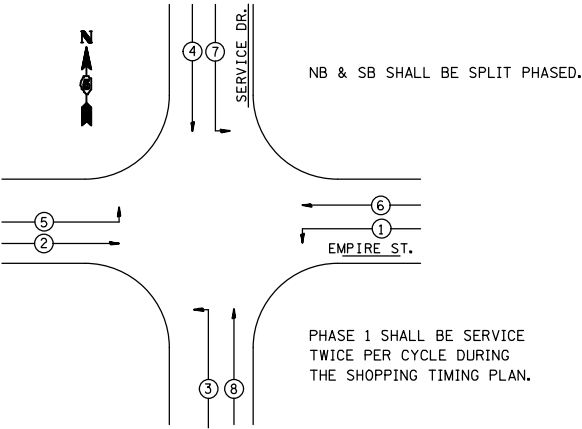
SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-1	*	23	10
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22		
ILLINOIS		FED. AID PROJECT		

TRAFFIC SIGNAL CABINET REPLACEMENT
IL. RTE. 9 & SERVICE DR.
BLOOMINGTON



PHASE DESIGNATION DIAGRAM

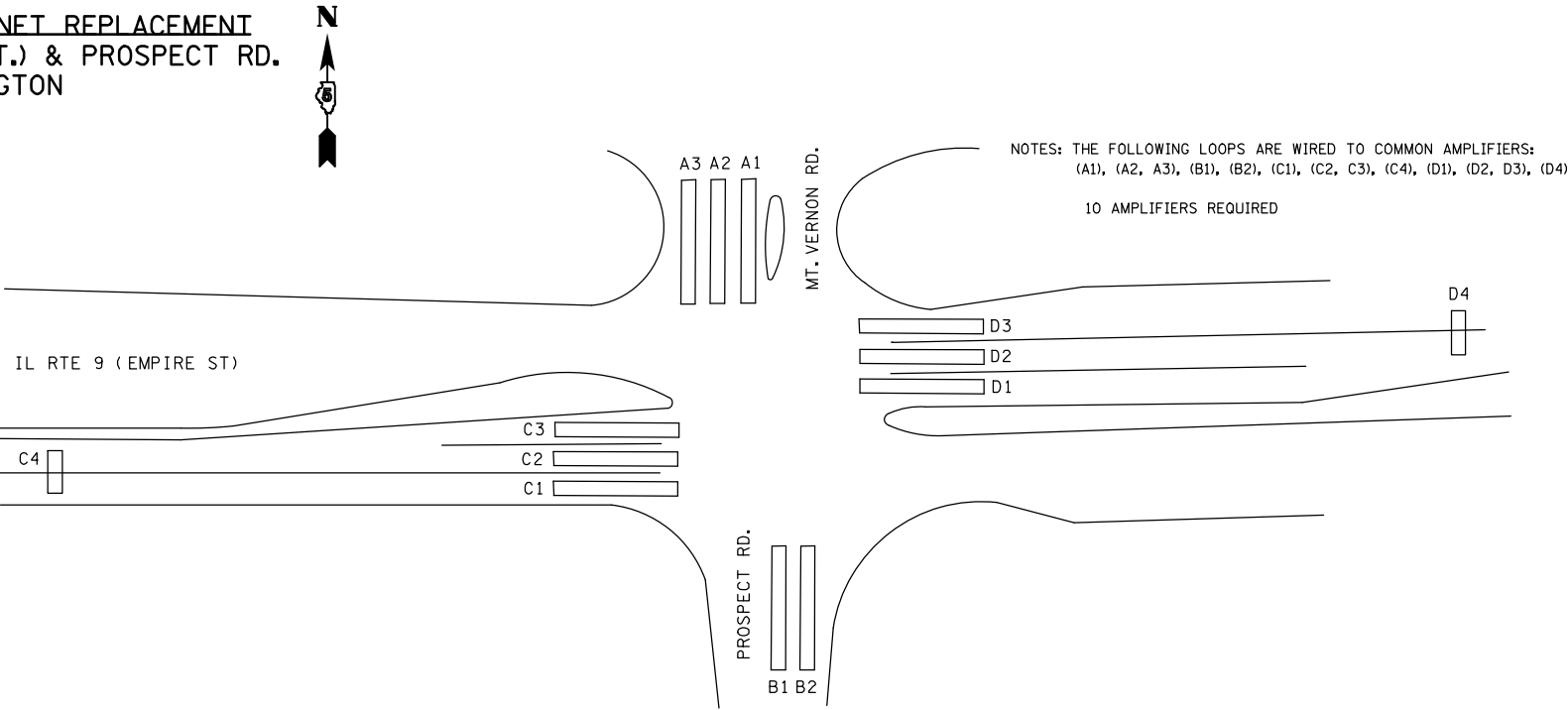


BILL OF MATERIALS

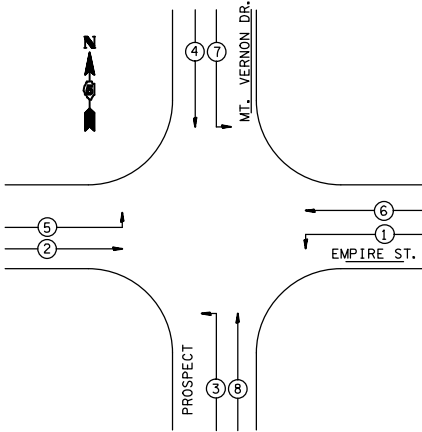
IL. 9 & Service Dr.

SERVICE INSTALLATION, TYPE A (MODIFIED)	1	EACH
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	1	EACH
UNINTERRUPTABLE POWER SUPPLY, STANDARD	1	EACH
ETHERNET SWITCH	1	EACH
INDUCTION LOOP DETECTOR AMPLIFIER	8	EACH

TRAFFIC SIGNAL CABINET REPLACEMENT
IL. RTE. 9(E. EMPIRE ST.) & PROSPECT RD.
BLOOMINGTON



PHASE DESIGNATION DIAGRAM



BILL OF MATERIALS

IL. 9 & Prospect Rd./Mt. Vernon Rd.

SERVICE INSTALLATION, TYPE A (MODIFIED)	1	EACH
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	1	EACH
UNINTERRUPTABLE POWER SUPPLY, STANDARD	1	EACH
ETHERNET SWITCH	1	EACH
INDUCTION LOOP DETECTOR AMPLIFIER	10	EACH

MODEL: 43 MODEL NAMES
FILE NAME: 31172021.ctb
PROJECT: 0570F22
OFFICE: District 5
DESIGN: 0570F22_21.ctb

USER NAME = bliggsrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOOP LAYOUT, PHASE DESIGNATION
BILL OF MATERIALS

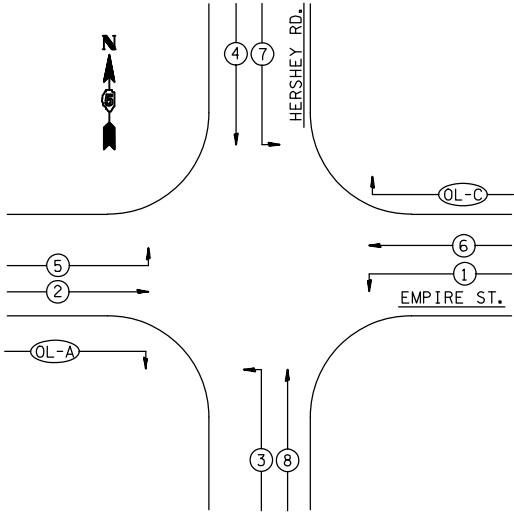
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-1	*	23	13
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL CABINET REPLACEMENT
IL. RTE. 9 & HERSHEY RD.
BLOOMINGTON



PHASE DESIGNATION DIAGRAM



BILL OF MATERIALS

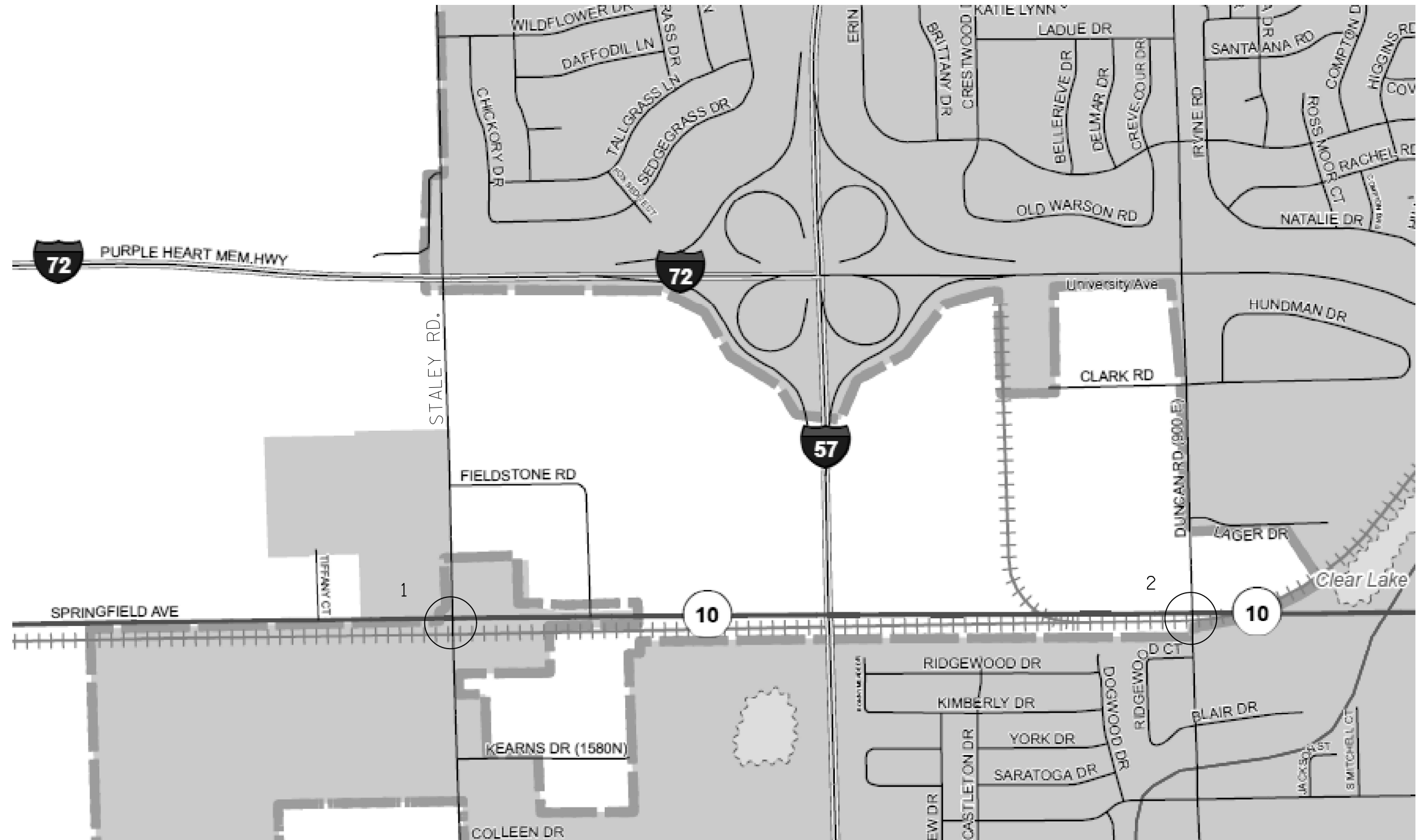
IL. 9 & Hershey Rd.

SERVICE INSTALLATION, TYPE A (MODIFIED)	1	EACH
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	1	FACH
UNINTERRUPTABLE POWER SUPPLY, STANDARD	1	EACH
ETHERNET SWITCH	1	EACH
VIDEO DETECTION SYSTEM COMPLETE	1	EACH

MODEL: s:\MODEL NAMES
FILE NAME: s:\data\mclean\dot\illinois\gov\PWIDOT\Documents\IDOT_Office\District 5\Projects\0570F22\CADD\DATA\Design\0570F22_2ht.dwg

	USER NAME = bliggsrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PHASE DESIGNATION BILL OF MATERIALS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				VAR.	2022 ITS-1	*	23	14
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -				*McLEAN, CHAMPAIGN, VERMILION				
	PLOT DATE = 3/17/2021	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL MODIFICATIONS
CHAMPAIGN
DUNCAN RD; STALEY RD. LOCATION MAP



USER NAME = biggsrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**LOCATION MAP
CHAMPAIGN**

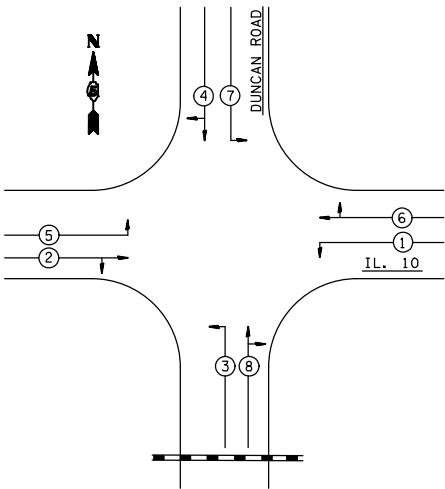
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-1	*	23	15
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22		
ILLINOIS		FED. AID PROJECT		

TRAFFIC SIGNAL CABINET REPLACEMENT
W/RAILROAD INTERCONNECT
IL. RTE. 10 & DUNCAN RD.
CHAMPAIGN

ILLINOIS CENTRAL RAILROAD
D.O.T. NUMBER 289 051L
MILE POST 3.34

PHASE DESIGNATION DIAGRAM



RAILROAD PRE-EMPTION SEQUENCE

UPON ACTUATION OF THE RAILROAD PRE-EMPTOR, THE BLANK-OUT SIGNS SHALL ILLUMINATE. THE PHASES IN SERVICE SHALL TERMINATE. THE INTERSECTION SHALL THEN ENTER 4-WAY FLASH. UPON COMPLETION OF THE PRE-EMPTION, THE BLANK-OUT SIGNS SHALL GO DARK AND THE CONTROLLER SHALL RESUME NORMAL OPERATION.

BILL OF MATERIALS

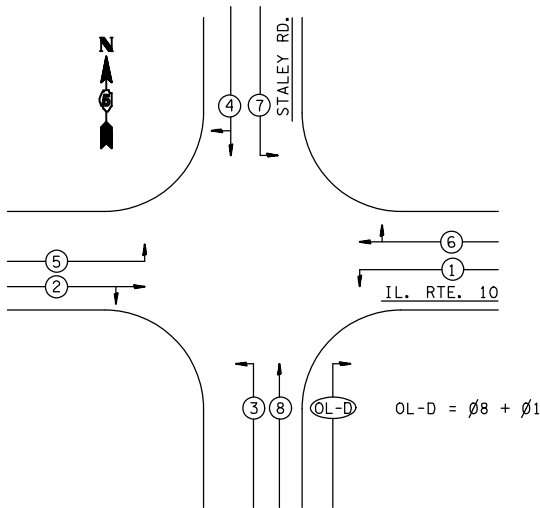
IL. 10 & DUNCAN RD.

SERVICE INSTALLATION, TYPE A	1	EACH
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	1	EACH
UNINTERRUPTABLE POWER SUPPLY, STANDARD	1	EACH
ILLUMINATED SIGN, LED (2 NO RIGHT TURN; 2 NO LEFT TURN)	4	EACH
ETHERNET SWITCH	1	EACH
WOOD POLE, 35 FT, CLASS 4	1	EACH
VIDEO DETECTION SYSTEM COMPLETE	1	EACH

TRAFFIC SIGNAL CABINET REPLACEMENT
W/RAILROAD INTERCONNECT
IL. RTE. 10 & STALEY RD.
CHAMPAIGN

ILLINOIS CENTRAL RAILROAD
D.O.T. NUMBER 289 084 T
MILE POST 13.17

PHASE DESIGNATION DIAGRAM



RAILROAD PRE-EMPTION SEQUENCE

UPON ACTUATION OF RAILROAD PRE-EMPTOR THE BLANKOUT SIGNS SHALL ILLUMINATE. THE PHASES IN SERVICE SHALL TERMINATE TO PHASES 3 & 8 FOR TRACK CLEARANCE GREEN TIME. PHASES 3 & 8 WILL THEN CLEAR TO ALLOW PHASES 2, 5, 6, & 7 TO CYCLE FOR THE DURATION OF THE PRE-EMPTION. UPON COMPLETION OF THE PRE-EMPTION, THE BLANKOUT SIGNS SHALL GO DARK AND THE CONTROLLER WILL RESUME NORMAL OPERATION.

BILL OF MATERIALS

IL. 10 & STALEY RD.

SERVICE INSTALLATION, TYPE A	1	EACH
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	1	EACH
UNINTERRUPTABLE POWER SUPPLY, STANDARD	1	EACH
ILLUMINATED SIGN, LED (2 NO RIGHT TURN; 2 NO LEFT TURN)	4	EACH
ETHERNET SWITCH	1	EACH
WOOD POLE, 35 FT, CLASS 4	1	EACH
VIDEO DETECTION SYSTEM COMPLETE	1	EACH

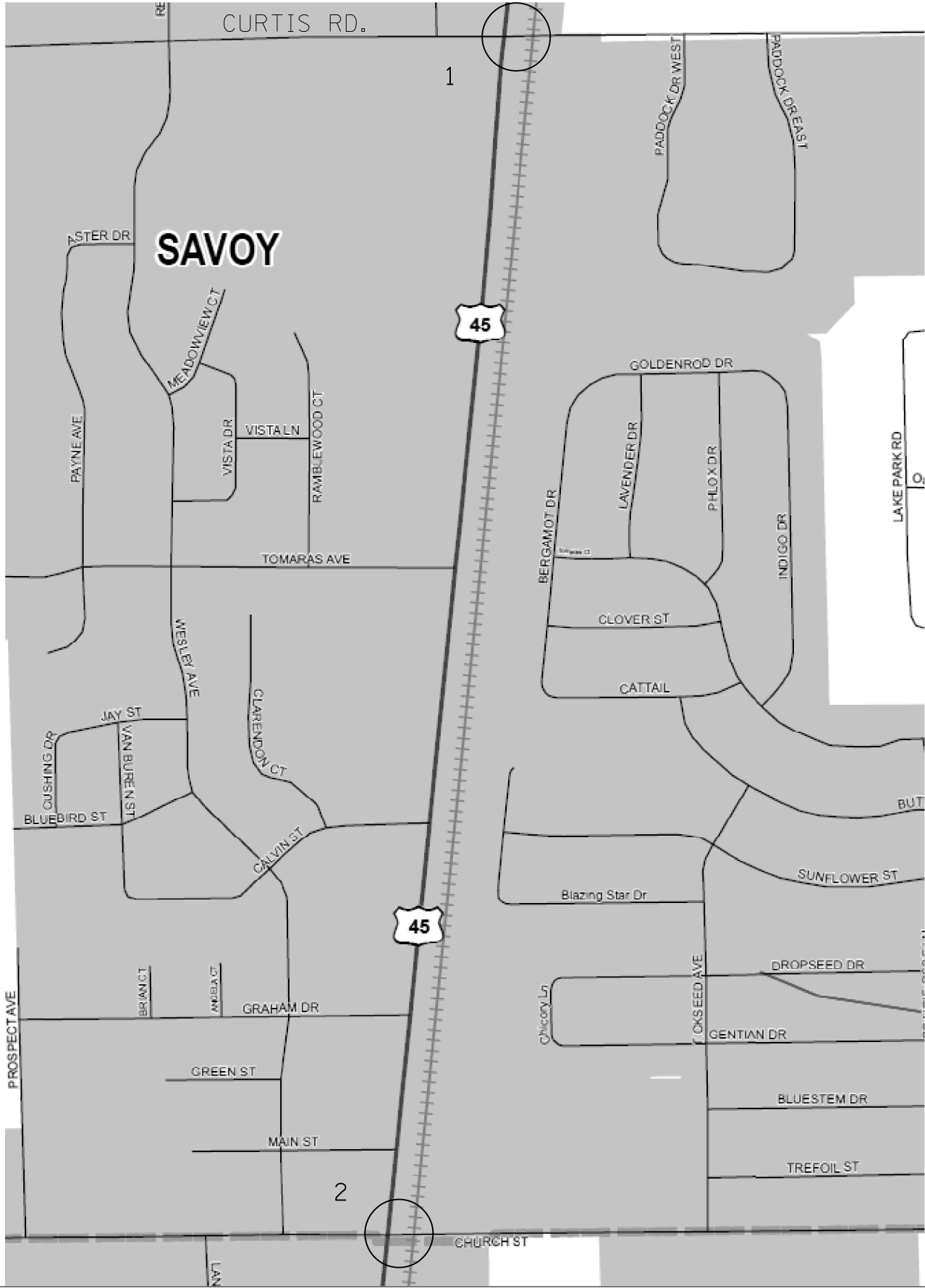
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FILE NAME: s:\champaign\dot\Illinois\gov\PHWDOT\Documents\DOT Office\District 5\Projects\0570F22\CAD\DATA\Design\0570F22_2ht.dwg

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

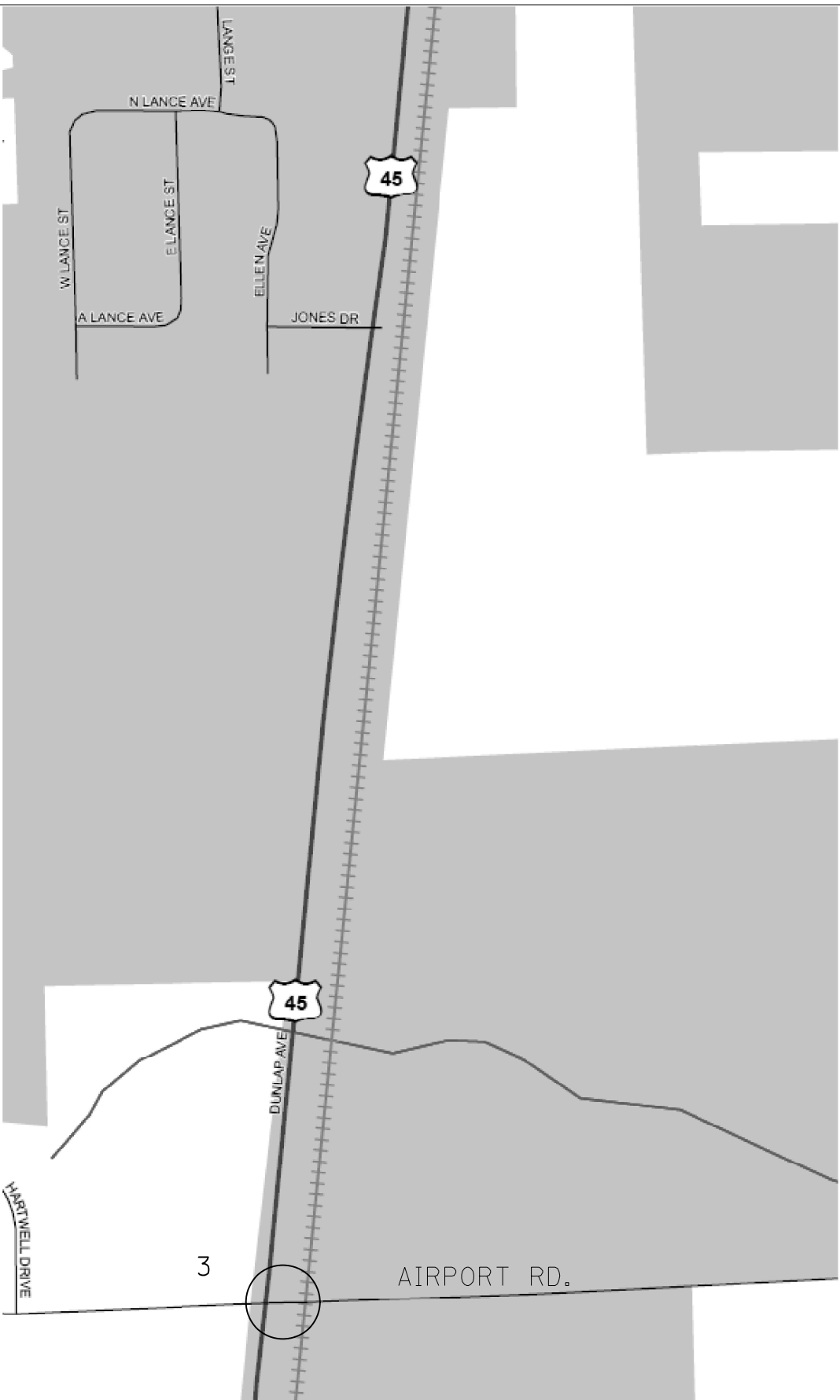
PHASE DESIGNATION; RR PRE-EMPT
BILL OF MATERIALS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-1	*	23	16
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22		
		ILLINOIS	FED. AID PROJECT	



TRAFFIC SIGNAL MODIFICATIONS
SAVOY
LOCATION MAP
NORTH AND SOUTH MAP



MODEL: 43 MODEL NAMES: SAVOY
FILE NAME: savoy.mxd
PROJECT: 0570F22
OFFICE: District 5
DESIGN: 0570F22_2h.dwg

USER NAME	= biggsrd	DESIGNED	-	REVISED	-
DRAWN	-	REVIS	-	REVIS	-
PLOT SCALE	= 100,000' / in.	CHECKED	-	REVISED	-
PLOT DATE	= 3/17/2021	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

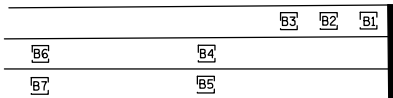
LOCATION MAP SAVOY				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-1	*	23	17
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22		
ILLINOIS		FED. AID PROJECT		

TRAFFIC SIGNAL CABINET REPLACEMENT
W/RAILROAD INTERCONNECT
U.S. RTE. 45 & CURTIS RD.
CHAMPAIGN

ILLINOIS CENTRAL RAILROAD
D.O.T. NUMBER 289 084 T
MILE POST 131.17

U.S. 45



RAILROAD PRE-EMPTION SEQUENCE

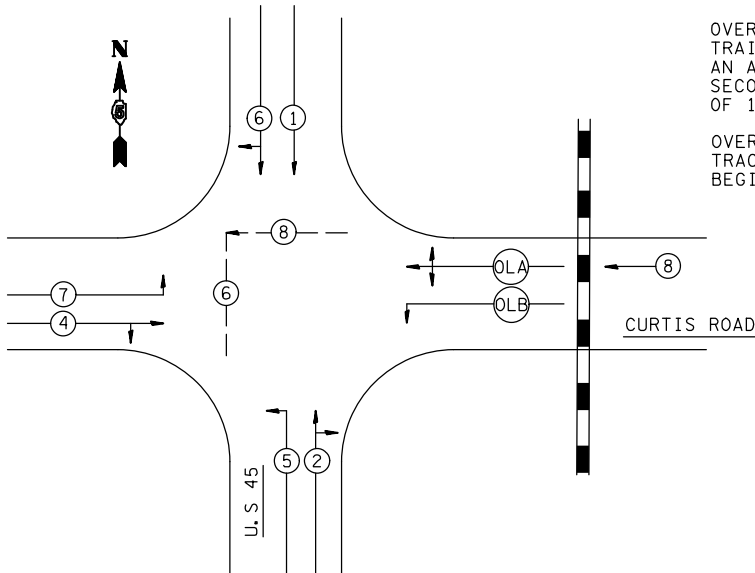
UPON ACTUATION OF THE RAILROAD PRE-EMPTOR THE BALNKOUT SIGNS SHALL ILLUMINATE AND THE PHASES IN SERVICE SHALL TERMINATE TO OVERLAP "A" AND OVERLAP "B". PEDESTRIAN CLEARANCE WILL BE LIMITED TO A FLASHING "DON'T WALK" INTERVAL IN LENGTH TO THE VEHICLE YELLOW CLEARANCE INTERVAL AND SHALL TIME CONCURRENTLY. ON COMPLETION OF THE TRACK CLEARANCE GREEN OVERLAP "A" AND OVERLAP "B" WILL CLEAR TO ALLOW PHASES 2, 5, 6 AND 7 TO CYCLE FOR THE DURATION OF THE PRE-EMPTION. UPON COMPLETION OF THE PRE-EMPTION THE BLANKOUT SIGNS WILL GO DARK AND THE CONTROLLER WILL RESUME TO NORMAL OPERATIONS.

NOTES: THE FOLLOWING LOOPS ARE WIRED TO COMMON AMPLIFIERS:
(A1, A2, A3), (A4, A5), (A6, A7), (B1, B2, B3), (B4, B5), (B6, B7), (C1, C2, C3), (C4, C5), (C6), (C7), (D1, D2), (D3, D4), (D5, D6), (D7,D8).

14 AMPLIFIERS REQUIRED

THE CONTROLLER SHALL BE SET TO MINIMUM RECALL
U.S. ROUTE 45.

PHASE DESIGNATION DIAGRAM



OVERLAP A = PHASE 8 WITH A
TRAILING GREEN OF 6 SECONDS,
AN AMBER INTERVAL OF 3.5
SECONDS + AN ALL RED INTERVAL
OF 1 SECOND.

OVERLAP B SHALL ONLY BE ACTIVE DURING THE
TRACK CLEARANCE GREEN PHASE AT THE
BEGINNING OF RAILROAD PRE-EMPTION.

BILL OF MATERIALS

U.S. 45 & Curtis Rd.

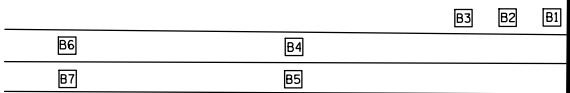
SERVICE INSTALLATION, TYPE A (MODIFIED)	1	EACH
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	1	EACH
UNINTERRUPTABLE POWER SUPPLY, STANDARD	1	EACH
ILLUMINATED SIGN, LED (2 NO RIGHT TURN; 2 NO LEFT TURN)	4	EACH
ETHERNET SWITCH	1	EACH
INDUCTION LOOP DETECTOR AMPLIFIER	14	EACH

TRAFFIC SIGNAL CABINET REPLACEMENT
W/RAILROAD INTERCONNECT
U.S. RTE. 45 & CHURCH ST.
CHAMPAIGN

ILLINOIS CENTRAL RAILROAD
D.O.T. NUMBER 289 086 M
MILE POST 132.19



U.S. 45



RAILROAD PRE-EMPTION SEQUENCE

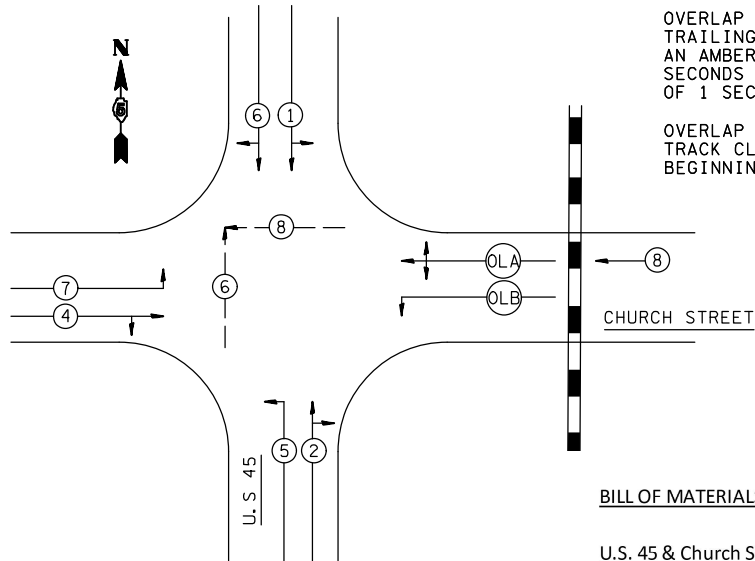
UPON ACTUATION OF THE RAILROAD PREEMPTOR THE PHASES IN SERVICE SHALL CLEAR TO PHASE 8 FOR 12 SECONDS OF GREEN TIME. PHASE 8 SHALL THEN CLEAR TO ALLOW PHASES 2, 5 & 6 TO CYCLE FOR THE DURATION OF THE PREEMPTION. UPON COMPLETION OF THE PREEMPTION THE CONTROLLER SHALL RESUME NORMAL OPERATION.

NOTES: THE FOLLOWING LOOPS ARE WIRED TO COMMON AMPLIFIERS:
(A1, A2, A3), (A4, A5), (A6, A7), (B1, B2, B3), (B4, B5), (B6, B7), (C1, C2, C3), (C4, C5), (D1), (D2), (D3, D4).

11 AMPLIFIERS REQUIRED

THE CONTROLLER SHALL BE SET TO MINIMUM RECALL
U.S. ROUTE 45.

PHASE DESIGNATION DIAGRAM



OVERLAP A = PHASE 8 WITH A
TRAILING GREEN OF 6 SECONDS,
AN AMBER INTERVAL OF 3.5
SECONDS + AN ALL RED INTERVAL
OF 1 SECOND.

OVERLAP B SHALL ONLY BE ACTIVE DURING THE
TRACK CLEARANCE GREEN PHASE AT THE
BEGINNING OF RAILROAD PRE-EMPTION.

BILL OF MATERIALS

U.S. 45 & Church St.

SERVICE INSTALLATION, TYPE A (MODIFIED)	1	EACH
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	1	EACH
UNINTERRUPTABLE POWER SUPPLY, STANDARD	1	EACH
ILLUMINATED SIGN, LED (2 NO RIGHT TURN; 2 NO LEFT TURN)	4	EACH
ETHERNET SWITCH	1	EACH
INDUCTION LOOP DETECTOR AMPLIFIER	11	EACH

MODEL: 43MODEL.NAMES
FILE: \\miller\p\champaign\dot\illinois\gov\p\WIDOT\Documents\DOT Office\District 5\Projects\0570F22\CAD\DATA\Design\0570F22_2ht.dwg

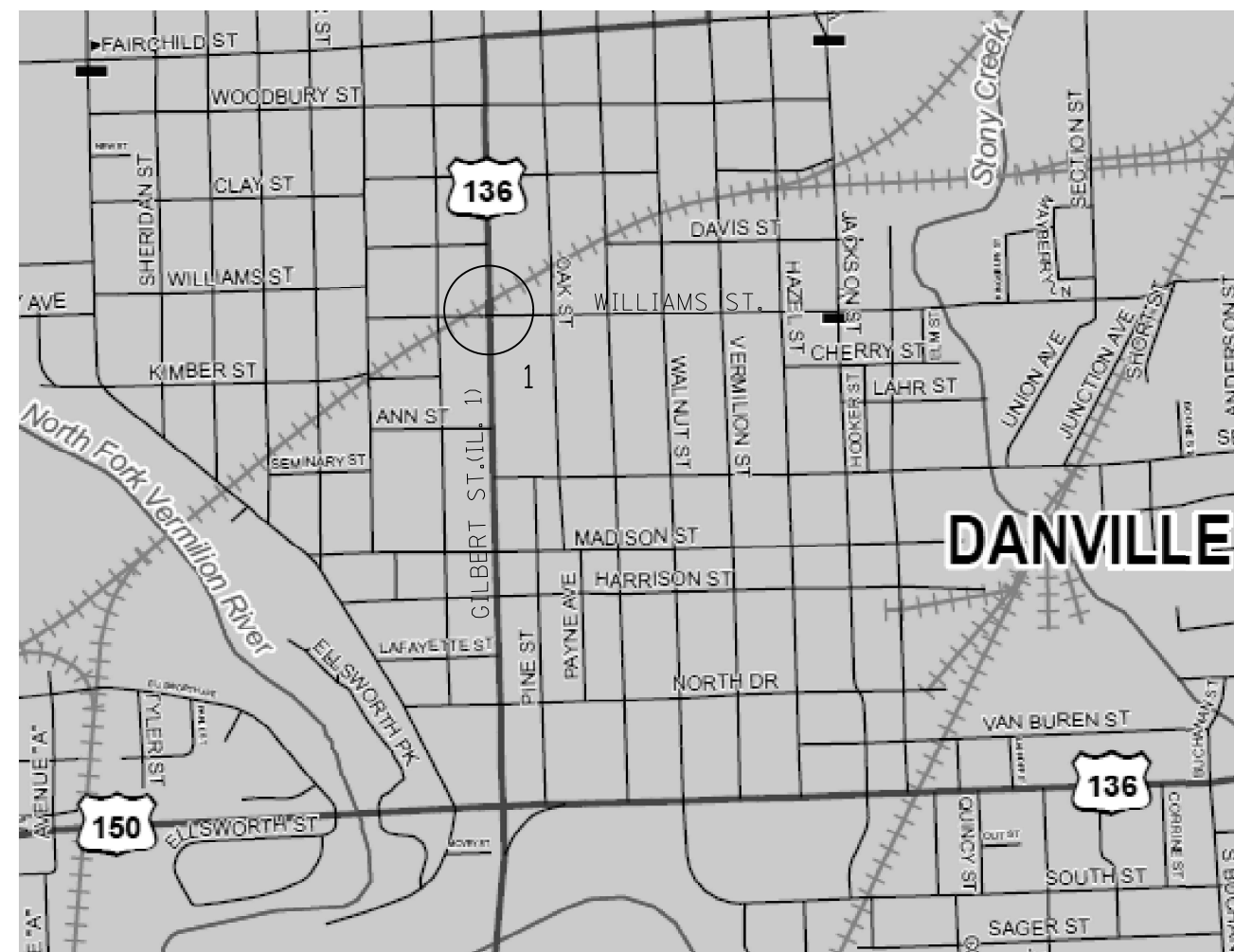
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PLOT SCALE = 100,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/17/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOOP LAYOUT, PHASE DESIGNATION
RR PRE-EMPT; BILL OF MATERIALS

SCALE: SHEET OF SHEETS STA. TO STA.

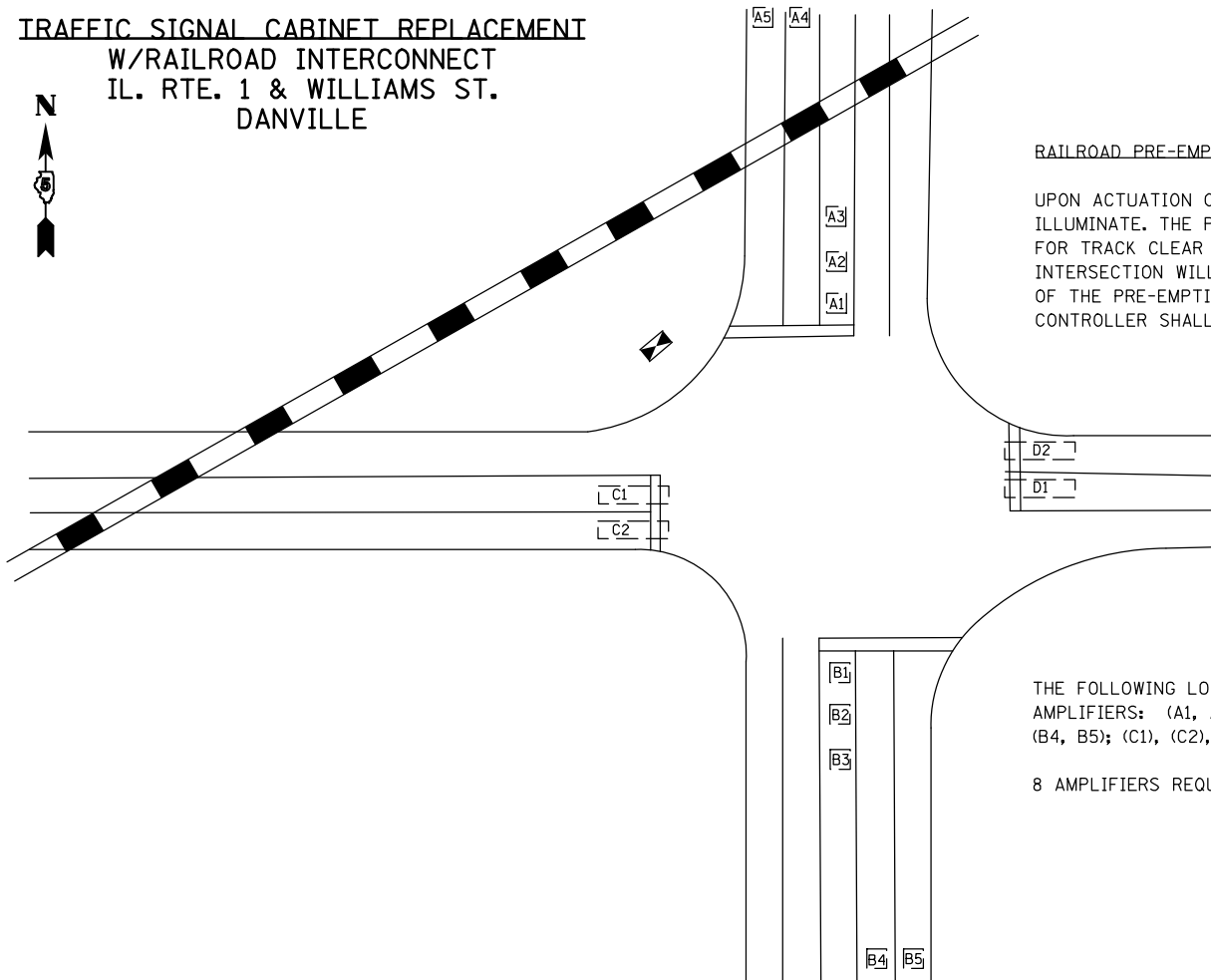
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-22	*	23	18
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22		
		ILLINOIS	FED. AID PROJECT	



USER NAME = biggsrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/17/2021	DATE -	REVISED -

LOCATION MAP				
TOLONO - DANVILLE				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-1	*	23	20
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22		
	ILLINOIS	FED. AID PROJECT		

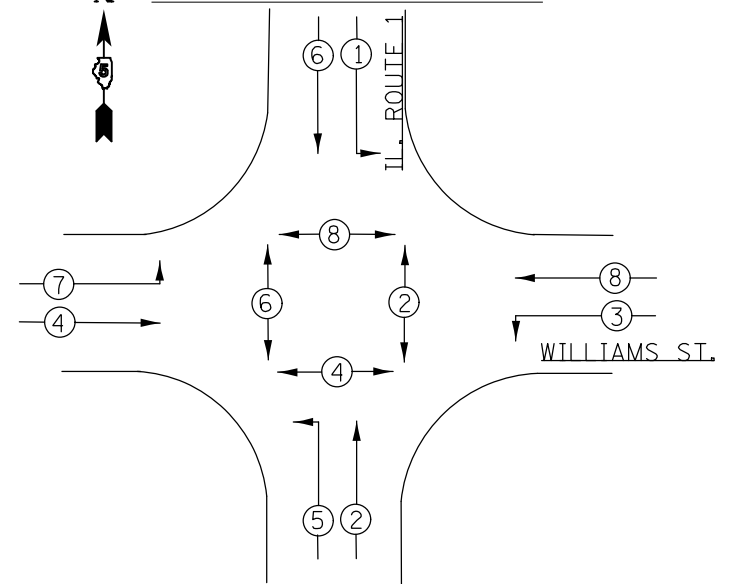


RAILROAD PRE-EMPTION SEQUENCE

UPON ACTUATION OF THE RAILROAD PRE-EMPTOR BLANKOUT SIGNS SHALL ILLUMINATE. THE PHASES IN SERVICE SHALL TERMINATE TO PHASES 1 AND 6 FOR TRACK CLEAR GREEN TIME. PHASES 1 AND 6 WILL THEN CLEAR AND THE INTERSECTION WILL GO INTO ALL-WAY RED FLASH. UPON COMPLETION OF THE PRE-EMPTION THE BLANKOUT SIGNS SHALL GO DARK AND THE CONTROLLER SHALL RESUME NORMAL OPERATIONS

THE FOLLOWING LOOPS SHALL BE WIRED TO COMMON
AMPLIFIERS: (A1, A2, A3), (A4, A5), (B1, B2, B3);
(B4, B5); (C1), (C2), (D1), (D2)

8 AMPLIFIERS REQUIRED



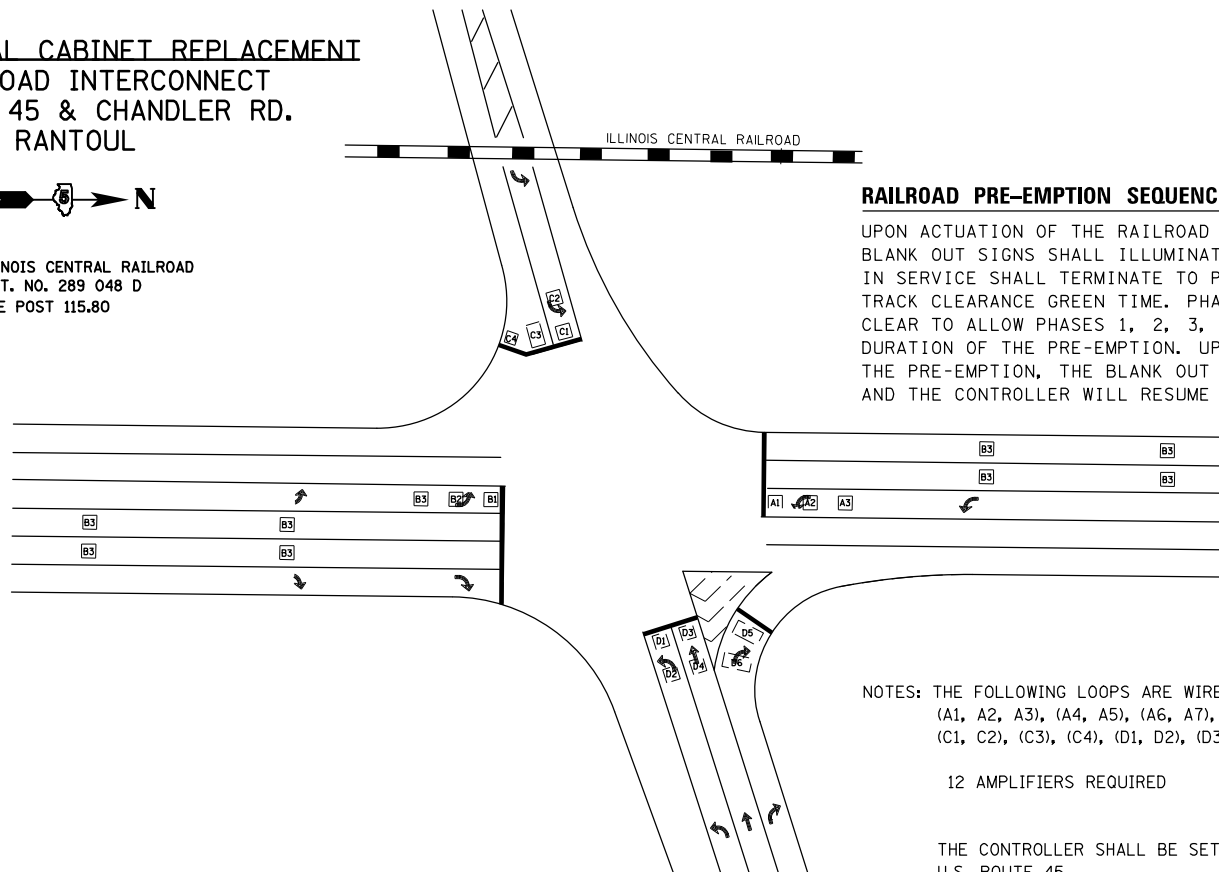
BILL OF MATERIALS

IL. 1 & Williams St.

SERVICE INSTALLATION, TYPE A	1	EACH
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	1	EACH
UNINTERRUPTABLE POWER SUPPLY, STANDARD	1	EACH
ILLUMINATED SIGN, LED (2 NO RIGHT TURN)	2	EACH
ETHERNET SWITCH	1	EACH
INDUCTION LOOP DETECTOR AMPLIFIER	3	EACH
WOOD POLE, 35 FT, CLASS 4	1	EACH

→ 5 → N

ILLINOIS CENTRAL RAILROAD
D.O.T. NO. 289 048 D
MILE POST 115.80



RAILROAD PRE-EMPTION SEQUENCE

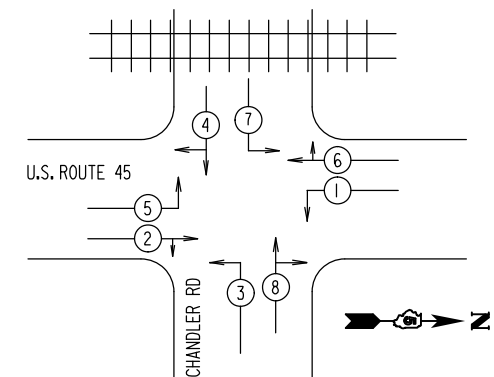
UPON ACTUATION OF THE RAILROAD PRE-EMPTOR, THE
BLANK OUT SIGNS SHALL ILLUMINATE, AND THE PHASES
IN SERVICE SHALL TERMINATE TO PHASES 4 & 7 FOR
TRACK CLEARANCE GREEN TIME. PHASES 4 & 7 WILL THEN
CLEAR TO ALLOW PHASES 1, 2, 3, & 6 TO CYCLE FOR THE
DURATION OF THE PRE-EMPTION. UPON COMPLETION OF
THE PRE-EMPTION, THE BLANK OUT SIGNS WILL GO DARK,
AND THE CONTROLLER WILL RESUME NORMAL OPERATIONS

NOTES: THE FOLLOWING LOOPS ARE WIRED TO COMMON AMPLIFIERS:
(A1, A2, A3), (A4, A5), (A6, A7), (B1, B2, B3), (B4, B5), (B6, B7),
(C1, C2), (C3), (C4), (D1, D2), (D3, D4), (D5, D6).

12 AMPLIFIERS REQUIRED

THE CONTROLLER SHALL BE SET TO MINIMUM RECALL
U.S. ROUTE 45.

→ 9 → N



BILL OF MATERIALS

U.S. 45 & Chandler Rd.

SERVICE INSTALLATION, TYPE A (MODIFIED)	1	EACH
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	1	EACH
UNINTERRUPTABLE POWER SUPPLY, STANDARD	1	EACH
ILLUMINATED SIGN, LED (2 NO LEFT TURN)	2	EACH
ETHERNET SWITCH	1	EACH
INDUCTION LOOP DETECTOR AMPLIFIER	12	EACH

USER NAME = biggsrd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOOP LAYOUT; PHASE DESIGNATION
RR PRE-EMPT; BILL OF MATERIALS

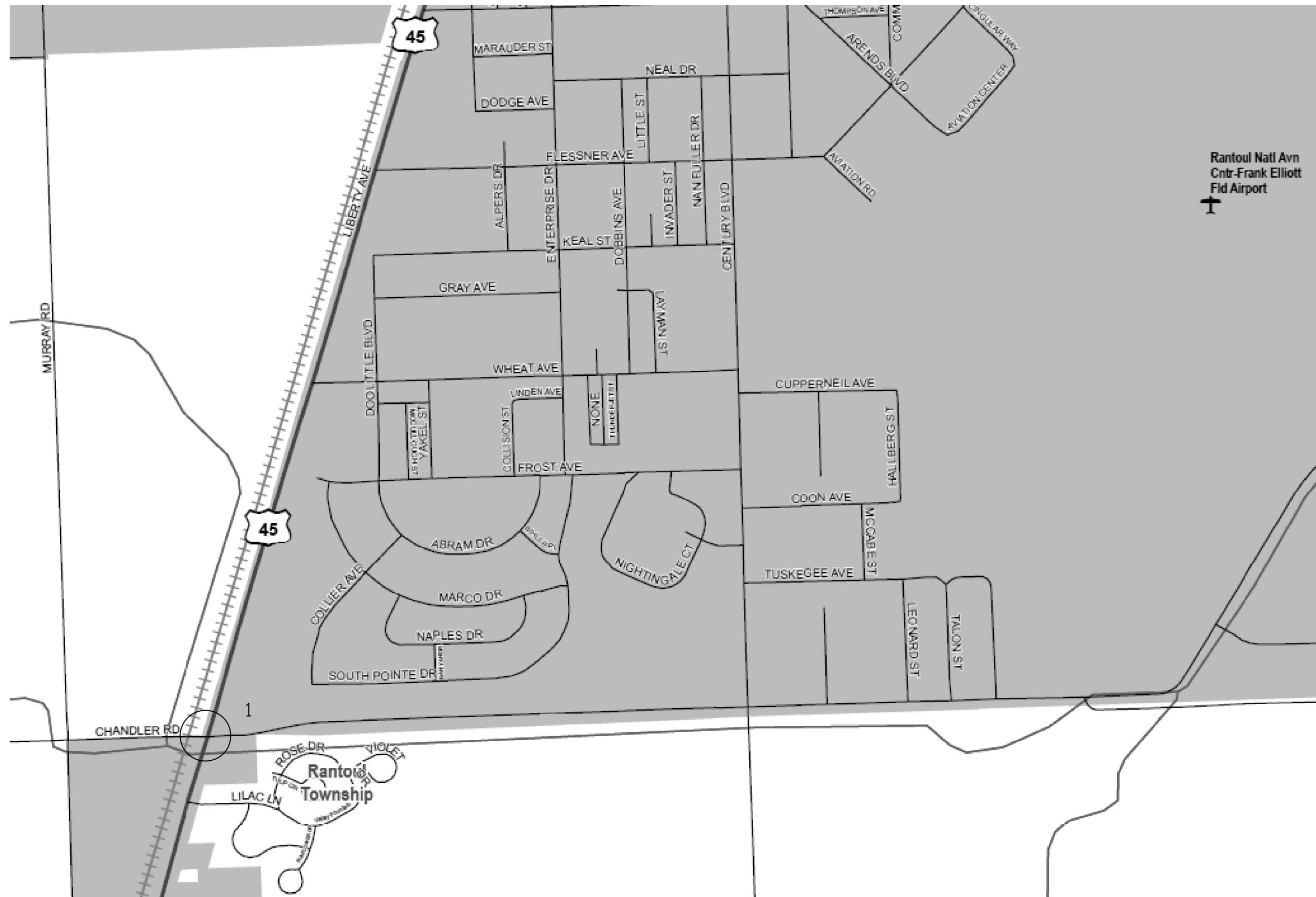
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2022 ITS-1	*	23	21
*McLEAN, CHAMPAIGN, VERMILION		CONTRACT NO. 70F22		
		ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL MODIFICATIONS

RANTOUL

LOCATION MAP



MODEL: \$MODEL\NAMES
FILE NAME: pwc:\planroom.dot.illinois.gov\PWIDOT\Documents\DOT_Offices\District_5\Projects\DS70F22\CADData\Design\DS70F22_sht-file

USER NAME = biggsrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION MAP RANTOUL				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -						VAR.	2022 ITS-1	*	23	22
PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				*McLEAN, CHAMPAIGN, VERMILION CONTRACT NO. 70F22				
PLOT DATE = 3/17/2021	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

DETAIL OF RAILROAD INTERCONNECT CIRCUIT

The diagram illustrates the internal wiring of a railroad interconnect circuit. It features several key components and connections:

- Power Input:** AC- and AC+ lines enter from the bottom left. The AC+ line passes through a 2 amp fuse.
- Relays:** Two relays are shown: PRE-EMPT CR1 and SUPERVISION CR2. Both are energized by the AC+ line.
- Signal Paths:** Multiple signal lines are shown, labeled with numbers (1, 3, 4, 5, 6, 7, 8, 9, 11) and letters (LC, Y1, Y6, Y7). These lines connect to various components, including a D-CONNECTOR/RELAY CIRCUIT MONITOR (+24V CM2) and a PRE-EMPT #2 output.
- Interconnect Fail:** A PRE-EMPT #1 INTERCONNECT FAIL output is shown, connected to a common line (Y4) and a normally open contact (Y6).
- Shielding:** The circuit includes three shields: RED/WHITE (Normally Closed), BLACK/WHITE (Common), and GREEN/WHITE (Normally Open). These shields are connected to the relays and the interconnect fail output.
- Relay Connections:** The relays are connected to the AC+ line and the shields. The PRE-EMPT CR1 relay is connected to the AC+ line and the shields. The SUPERVISION CR2 relay is connected to the AC+ line and the shields.

Relays shown in normal (non-preempt) condition
RR and CR2 energized



MODEL: \$MODELNAME\$
FILE NAME: pwr:\pdrroom.doc;illinois.gov\PWIDOT\Documents\IDOT_Offices\District_5\Projects\DS70F22\CAODData\Design\DS70F22_sht-file

USER NAME = biggsrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN -	REVISED -							VAR.	2022 ITS-1	*	23	23	
PLOT SCALE = 100,000' = 1 in.	CHECKED -	REVISED -							*McLEAN, CHAMPAIGN, VERMILION					CONTRACT NO. 70F22
PLOT DATE = 3/17/2021	DATE -	REVISED -							SCALE:	SHEET	OF	SHEETS	STA.	TO STA.