08-01-2025 LETTING ITEM 090

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	1
	ILLINOIS	CONTRACT NO. 78916		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAS ROUTE 2887 (IL 37)
SECTION D9 TRAFFIC SIGNAL 2021–3
TRAFFIC SIGNAL IMPROVEMENT
WILLIAMSON COUNTY

C–99–018–22

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4–8

TRAFFIC DATA

IL 37 NORTH OF MAIN STREET: 11,000

IL 37 SOUTH OF MAIN STREET: 9,000

TOWNSHIP

WEST MARION PRECINCT

POSTED SPEED

35 MPH, 25 MPH

3–26–2025

P. BRIEN FUNK II **DATE**

EXPIRES: 11–30–2025

iteris

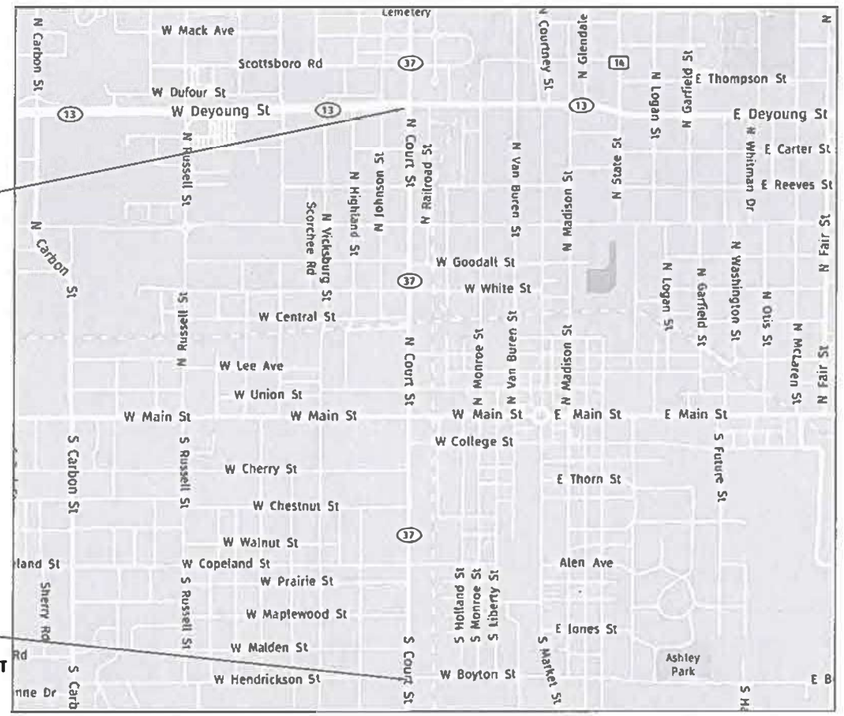
ITERIS, INC.
319 W STATE STREET, SUITE 200
GENEVA, IL 60134

IL DESIGN FIRM NO: 184007145–0002

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

PROJECT ENGINEER SUSAN POE
PROJECT DESIGNER SUSAN POE

CONTRACT NO. 78916



GROSS LENGTH = 1.3 MILES
NET LENGTH = 1.3 MILES

D–99–009–22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 21 20 25

Lora S. Kensinger
REGION FIVE ENGINEER

May 9 20 25

ENGINEER OF DESIGN AND ENVIRONMENT

May 9 20 25

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV - MS

Prepared By: _____
DISTRICT STUDIES & PLANS ENGINEER

Examined By: _____
DISTRICT LAND ACQUISITION ENGINEER

Examined By: _____
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: _____
DISTRICT OPERATIONS ENGINEER

Examined By: _____
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: _____
DISTRICT CONSTRUCTION ENGINEER

Examined By: _____
DISTRICT MATERIALS ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	2
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		

INDEX OF SHEETS

IDOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
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
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, SPEEDS ≥ 45 MPH TO 55 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
878001-11	CONCRETE FOUNDATION DETAILS

GENERAL NOTES

1. THE LOCATIONS FOR COMMUNICATION VAULTS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.

2. THE EXISTING TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THE PROPOSED CONDUIT AND FIBER OPTIC CABLE.

3. THE CONTRACTOR SHALL PROVIDE 100 FT. OF SLACK FIBER OPTIC CABLE INSIDE EACH PROPOSED COMMUNICATIONS VAULT OR AS SHOWN IN THE SPEC BOOK.

4. THERE SHALL BE NO ADDITIONAL SPLICES IN THE FIBER OPTIC CABLE EXCEPT WHERE NOTED IN THE PLANS, OR UPON APPROVAL OF THE ENGINEER.

5. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN THE REQUIRED MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES. LOCATIONS OF ANTICIPATED GREATER THAN MINIMUM DEPTH CONDUIT ARE NOTED IN THE PLANS.

6. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES OF THE CONDUIT.

7. THE LOCATION OF THE PROPOSED CONDUIT AS SHOWN IN THE PLAN SHEETS IS APPROXIMATE. THE CONDUIT SHALL BE INSTALLED AT A 36" MINIMUM DEPTH INCLUDING CROSSING DRAINAGE FLOW LINES, EXCEPT AS NOTED IN THE PLANS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING FIELD TILES, UNDERDRAINS, AND DRAINAGE STRUCTURE LOCATIONS. THE CONTRACTOR SHALL MAKE AN EFFORT TO MINIMIZE DAMAGE TO THESE FACILITIES DURING INSTALLATION OF CONDUIT AND COMMUNICATIONS VAULTS. IN THE EVENT ANY OF THESE FACILITIES ARE DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING REPAIRS AND RESTORE FUNCTIONALITY TO THE SATISFACTION OF THE ENGINEER.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MOWING, BRUSH AND SHRUB REMOVAL, AND SMALL TREE (10" DIAMETER OR LESS) REMOVAL REQUIRED TO INSTALL THE PROPOSED CONDUIT AND COMMUNICATIONS VAULTS. THE CONTRACTOR SHALL DISPOSE OF ALL REMOVED ITEMS OFF THE JOB SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE CONDUIT PAY ITEM.

LOCATION MAP

SUMMARY OF LOCATIONS

NO.	SHEET	INTERSECTION/INTERCONNECT
1	13	IL ROUTE 37 AND IL ROUTE 13
2	15	IL ROUTE 37 AND BOULEVARD STREET
3	18	IL ROUTE 37 AND MAIN STREET
4	22	IL ROUTE 37 AND BOYTON STREET / HENDRICKSON STREET
	26	INTERCONNECT: IL ROUTE 37 FROM IL ROUTE 13 TO BOYTON STREET

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	DRAWN - BF	REVISED -			
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PLOT DATE = 12/15/2023	DATE - 12/15/23	REVISED -			

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	3
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			

					CONSTRUCTION CODE								
					0021	0021		0021		0021		0021	
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	IL ROUTE 13	BOULEVARD ST		MAIN ST		BOYTON ST		INTERCONNECT	
					STATE	GCPF/STATE	STATE	GCPF/STATE	STATE	GCPF/STATE	STATE	GCPF/STATE	
					100%	95% / 5%	100%	95% / 5%	100%	95% / 5%	100%	95% / 5%	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6								6	
	67100100	MOBILIZATION	L SUM	1								1	
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1								1	
	70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1								1	
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1								1	
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1								1	
*	72000100	SIGN PANEL - TYPE 1	SQ FT	221	10	20	60	51	60	20			
*	78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	473	237	59		59		118			
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	102				102					
*	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	383		77		131		175			
*	78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	50		14		18		18			
*	78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	310	132	44		54		80			
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	276	276								
	80300100	LOCATING UNDERGROUND CABLE	FOOT	35		15		15		5			

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	4
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0021 IL ROUTE 13 STATE 100%	0021 BOULEVARD ST GCPF/STATE 95% / 5%	0021 BOULEVARD ST STATE 100%	0021 MAIN ST GCPF/STATE 95% / 5%	0021 MAIN ST STATE 100%	0021 BOYTON ST GCPF/STATE 95% / 5%	0021 BOYTON ST STATE 100%	0021 INTERCONNECT GCPF/STATE 95% / 5%
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1			1					
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1259	369	172	73	297		348		
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	235			187		38	10		
81028740	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	7220								7220
81400100	HANDHOLE	EACH	5	2	1		1		1		
81400200	HEAVY-DUTY HANDHOLE	EACH	2				1		1		
85700310	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	2		1		1				
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	3		1		1		1		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	269					269			
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1905	1905							
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2257			1274		807	176		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2965		400	826		1445	294		
87301750	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	1107		189		528		390		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	78			78					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	5
		CONTRACT NO. 78916		
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0021 IL ROUTE 13 STATE 100%	0021 BOULEVARD ST GCPF/STATE 95% / 5%	0021 BOULEVARD ST STATE 100%	0021 MAIN ST GCPF/STATE 95% / 5%	0021 MAIN ST STATE 100%	0021 BOYTON ST GCPF/STATE 95% / 5%	0021 BOYTON ST STATE 100%	0021 INTERCONNECT GCPF/STATE 95% / 5%
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1814			454		728		632	
87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	2	2							
87702830	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	EACH	1						1		
87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1			1					
87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	3			3					
87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1					1			
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1					1			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8	8							
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	74			50.5		13.5	10		
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	19					19			
87900100	DRILL EXISTING FOUNDATION	EACH	6		1	2					3
87900200	DRILL EXISTING HANDHOLE	EACH	13	3		5	1	2	2		
88030012	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	2	2							

REV - MS

				CONSTRUCTION CODE								
				0021	0021		0021		0021		0021	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	IL ROUTE 13	BOULEVARD ST		MAIN ST		BOYTON ST		INTERCONNECT	
				STATE	GCPF/STATE	STATE	GCPF/STATE	STATE	GCPF/STATE	STATE	GCPF/STATE	
				100%	95% / 5%	100%	95% / 5%	100%	95% / 5%	100%	95% / 5%	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1					1				
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	5			2		2	1			
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	5			2		2	1			
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		1	1						
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		1	1						
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	21			8		4		9		
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		1		1					
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1								1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4175		186	1779		1947	263			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	1	1		1		1			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8			5		2	1			
X0326944	ATMS INTEGRATION	L SUM	1								1	
X1400214	SPARE RAILROAD, FULL ACTUATED CONTROLLER , SPECIAL	EACH	3		1		1		1			
X1700066	POTHOLING	EACH	10								10	
* X7240505	RELOCATE SIGN PANEL AND POST	EACH	1	1								

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	7
		CONTRACT NO. 78916		
		ILLINOIS	FED. AID PROJECT	

				CONSTRUCTION CODE								
				0021	0021		0021		0021		0021	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	IL ROUTE 13	BOULEVARD ST		MAIN ST		BOYTON ST		INTERCONNECT	
				STATE	GCPF/STATE	STATE	GCPF/STATE	STATE	GCPF/STATE	STATE	GCPF/STATE	
				100%	95% / 5%	100%	95% / 5%	100%	95% / 5%	100%	95% / 5%	
X7340100	CONCRETE FOUNDATIONS, GROUND MOUNT	CU YD	0.5			0.5						
X8108242	UNDERGROUND CONDUIT, HDPE, 4" DIA.	FOOT	50								50	
X8571214	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE III CABINET (SPECIAL)	EACH	1						1			
X8710010	FIBER LAYOUT	L SUM	1								1	
X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	7780								7780	
X8710036	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	565								565	
X8710103	ETHERNET SWITCH	EACH	3		1		1		1			
X8710304	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	3								3	
X8710306	FIBER OPTIC CABLE SPLICE - MAINLINE	EACH	1								1	
X8710318	FIBER OPTIC UTILITY MARKER	EACH	66								66	
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4	4								
X8891001	VIDEO VEHICLE DETECTION SYSTEM	EACH	3			1		1		1		
Z0033052	COMMUNICATIONS VAULT	EACH	8								8	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1								1	
Z0066900	STEEL CASINGS 4"	FOOT	150	50			50		50			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	8
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			

PAVEMENT MARKING LEGEND

XXXXXX REMOVE EXISTING PAVEMENT MARKING

Ⓐ

DO NOT STOP ON TRACKS

R8-8
24" X 30"
(2 REQUIRED)

RELOCATE EXISTING IL 37 JCT SIGN

POLYUREA PVMT MARKING LINE 8" (SOLID WHITE) 5+83.59

POLYUREA PVMT MARKING LINE 24" (SOLID WHITE) 6+32.22

PROP. RR SYMBOL POLYUREA PVMT MARKING (SOLID WHITE) 7+21.60

IL ROUTE 13

2 3 4 10+00 5+00 6

2 3 4 5+00 6 7

REFRESH EXIST. RR SYMBOL POLYUREA PVMT MARKING (SOLID WHITE)

POLYUREA PVMT MARKING LINE 24" (SOLID WHITE) 5+58.68

POLYUREA PVMT MARKING RR CROSSING DIAGONALS @ 45° 8' C-C LINE 6" (SOLID WHITE)

N

0 20 40 60

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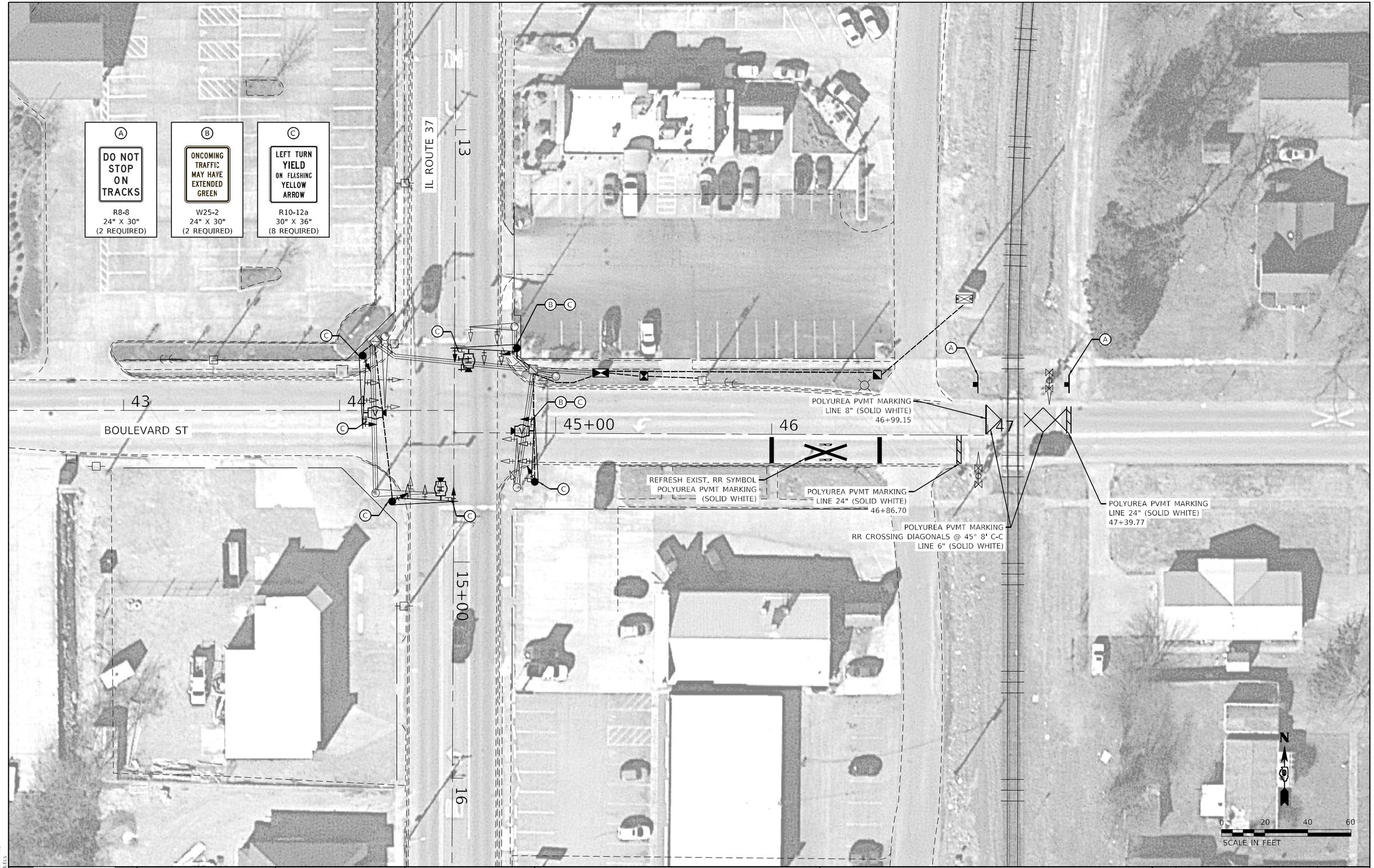
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL ROUTE 13

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	9
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
BOULEVARD STREET

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	10
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			

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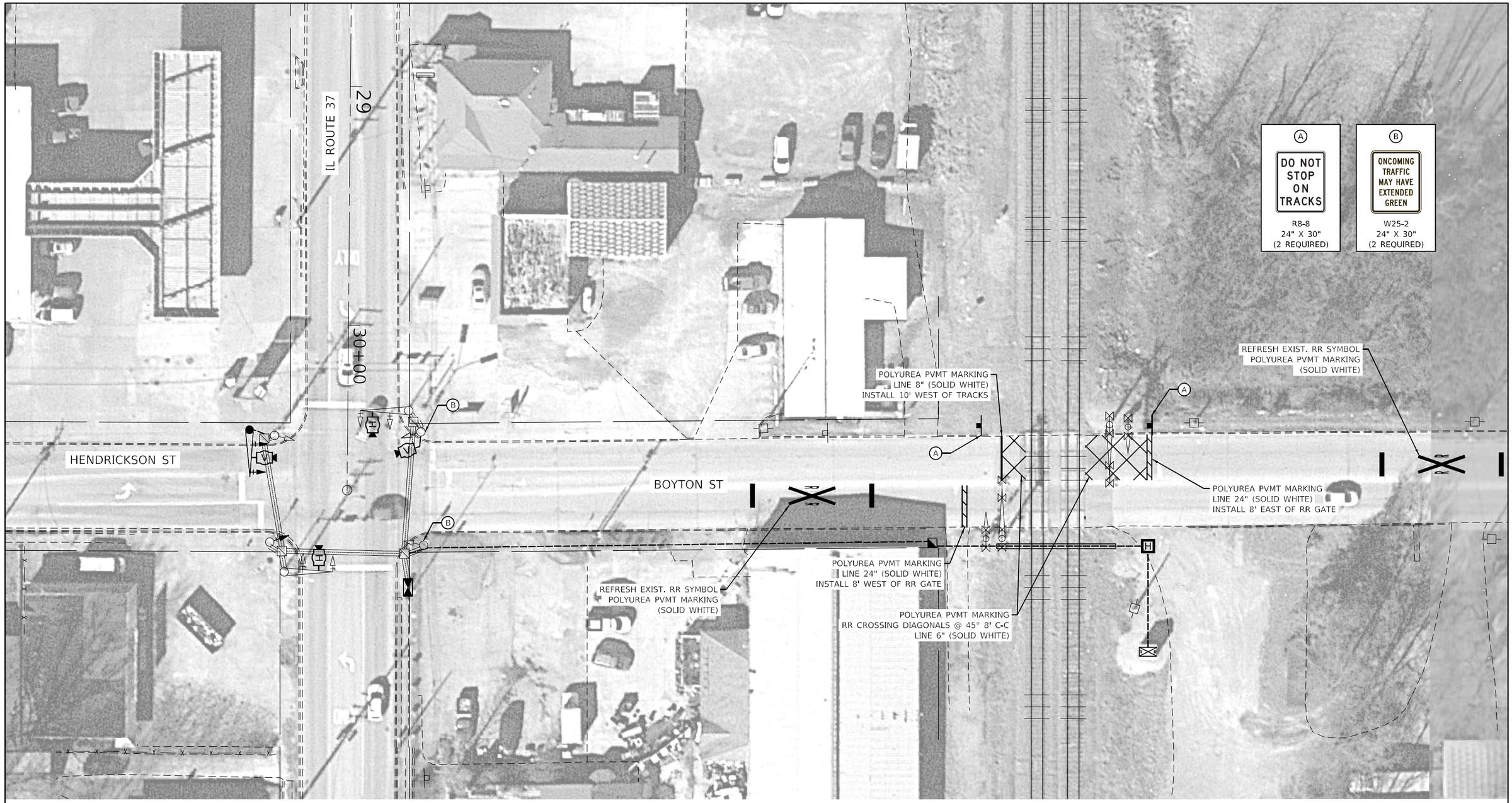
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
MAIN STREET

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	11
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

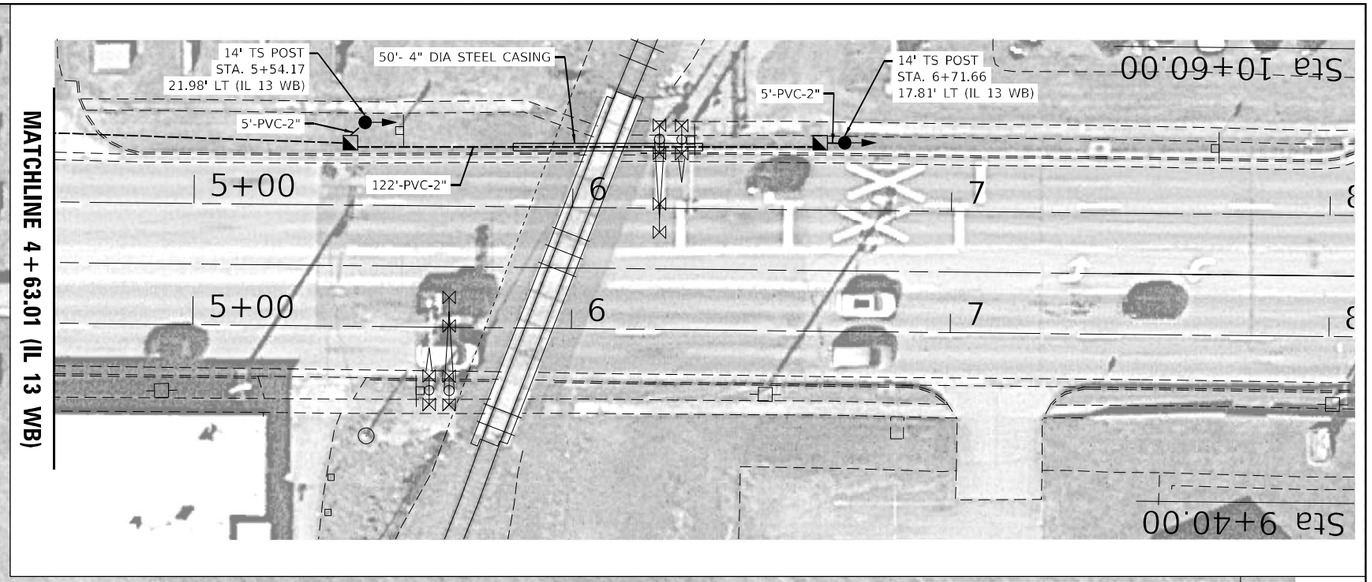
PAVEMENT MARKING AND SIGNING PLAN
BOYTON STREET

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	12
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

- SIGNAL HEAD
- HANDHOLE
- PROPOSED CONDUIT
- APS PUSH BUTTON
- EXISTING UNDERGROUND CONDUIT
- EXISTING CONTROLLER CABINET
- EXITING HANDHOLE



REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THIER OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH PEDESTRIAN PUSH BUTTON

NOTES:
1. ALL HORIZONTAL DISTANCES TO BE MEASURED AT RIGHT ANGLES FROM THE CENTERLINE OF TRACK.
2. RAILROAD SIGNAL REPRESENTATIVE MUST BE PRESENT DURING INSTALLATION IF RAILROAD SIGNALS ARE IN THE VICINITY OF THE CROSSING.

DETAIL "A"

NOT TO SCALE

N

0 20 40 60

SCALE IN FEET

MODEL: $MODELNAME$
FILE NAME: $FILES

iteris

USER NAME = $USER$	DESIGNED - BF	REVISED - 3/9/23
	DRAWN - BF	REVISED -
PLOT SCALE = $SCALE$	CHECKED - ASG	REVISED -
PLOT DATE = $DATE$	DATE - 3/22/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 13 AND IL ROUTE 37

SCALE: | SHEET OF SHEETS | STA. TO STA.

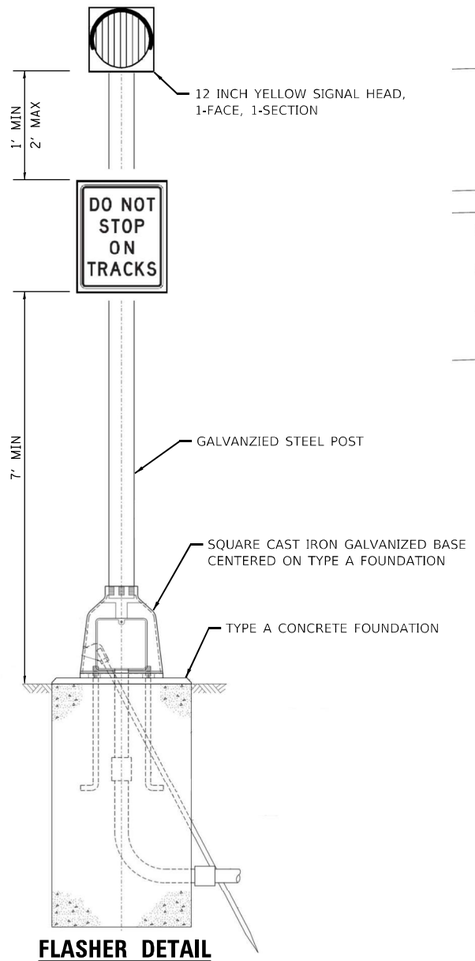
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	13
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

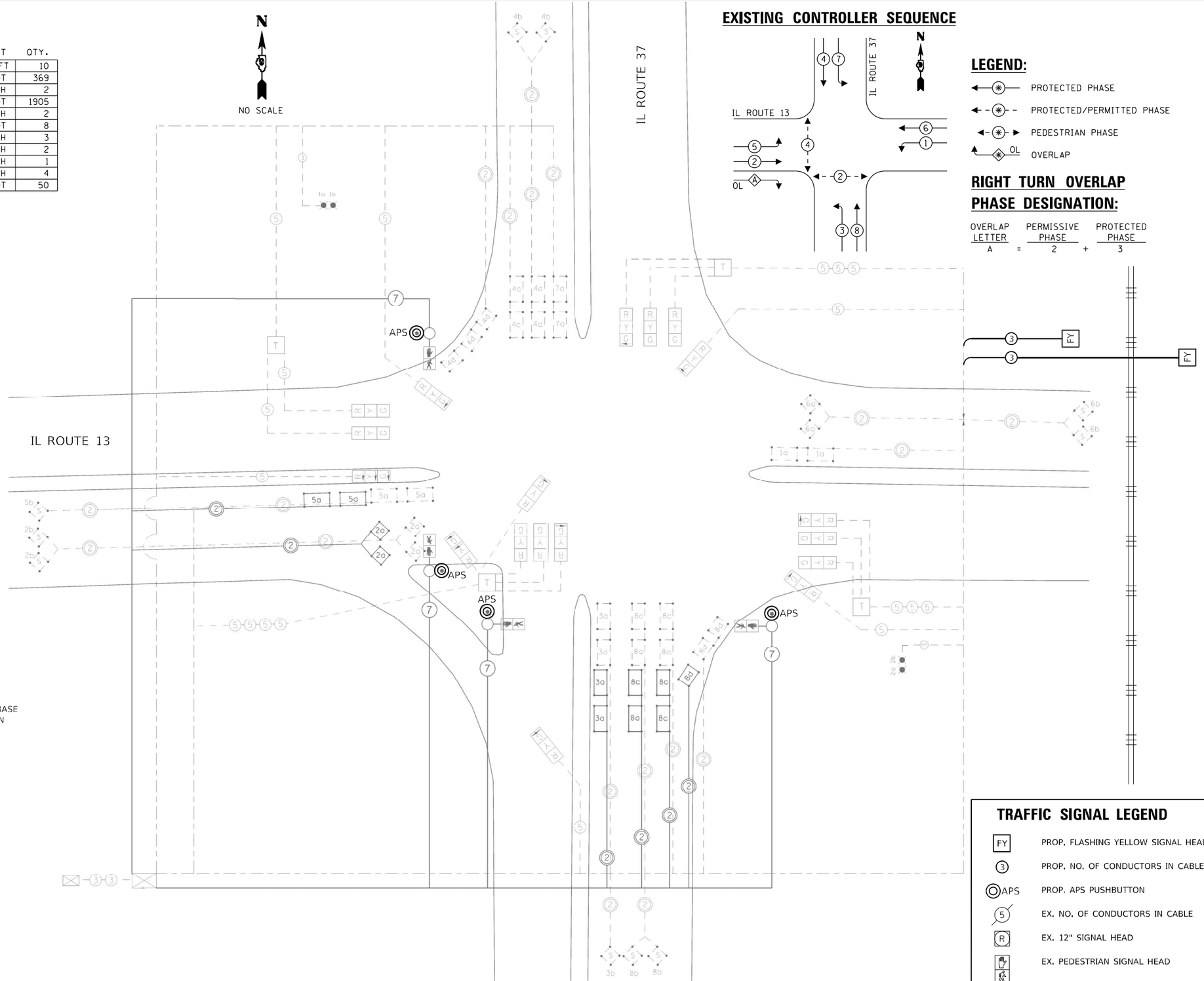
ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	10
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	369
HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1905
TRAFFIC SIGNAL POST, 14 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
STEEL CASINGS 4"	FOOT	50

NOTES:

1. THE FLASHING YELLOW BEACONS SHALL ACTIVATE FOR THE DURATION OF YELLOW AND RED SIGNAL INDICATIONS FOR WESTBOUND IL ROUTE 13 AT IL ROUTE 37 (PHASE 6).



FLASHER DETAIL



EXISTING CONTROLLER SEQUENCE

LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3

TRAFFIC SIGNAL LEGEND

- FY — PROP. FLASHING YELLOW SIGNAL HEAD
- (3) — PROP. NO. OF CONDUCTORS IN CABLE
- APS — PROP. APS PUSHBUTTON
- (5) — EX. NO. OF CONDUCTORS IN CABLE
- (R) — EX. 12" SIGNAL HEAD
- EX. PEDESTRIAN SIGNAL HEAD

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED - 3/9/23	
	DRAWN - BF	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - ASG	REVISED -	
PLOT DATE = 12/15/2023	DATE - 3/22/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
IL ROUTE 13 AND IL ROUTE 37

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	14
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

	CONTROLLER CABINET
	GROUND MOUNT SERVICE CABINET
	STEEL MAST ARM ASSEMBLY AND POLE
	SIGNAL HEAD WITH BACKPLATE
H	HYBRID VIDEO/RADAR DETECTION UNIT
V	VIDEO DETECTION UNIT
	HANDHOLE
	PROPOSED CONDUIT
RL	RELOCATE ITEM
	EXISTING UNDERGROUND CONDUIT
	EXISTING CONTROLLER CABINET
	EXITING HANDHOLE
A	ABANDON ITEM
RMF	STEEL MAST ARM POLE AND FOUNDATION REMOVED
RPF	SIGNAL POST AND FOUNDATION REMOVED

NOTES:

1. RR INTERCONNECT CONDUIT SHALL TERMINATE AT THE JUNCTION BOX (PROVIDED BY RAILROAD) ATTACHED TO THE RAILROAD BUNGALOW.
2. ANY EXISTING TRAFFIC SIGNAL OR DETECTION CABLE THAT INTERFERES WITH THE PROPOSED WORK SHALL BE REMOVED AND DISCARDED. ANY EXISTING CABLE THAT DOES NOT INTERFERE WITH THE PROPOSED WORK MAY BE ABANDONED.
3. CONTRACTOR SHALL VERIFY PROPER CAMERA PLACEMENT WITH VIDEO DETECTION VENDOR PRIOR TO INSTALLATION.
4. VIDEO DETECTION ZONE LAYOUT SHALL BE DRAWN TO PROVIDE FULL SIGNAL PERFORMANCE MEASURES (SPM) CAPABILITIES.
5. CONDUIT LENGTH DIMENSIONS SHOWN IN CALLOUT ARE CORRECT BASED ON FIELD MEASUREMENTS. LINE LENGTHS MAY NOT BE ACCURATE.
6. WHEN A GRADE CROSSING EXISTS WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT BE PERFORMED IN A MANNER THAT WOULD CAUSE VEHICLES TO STOP ON THE TRACKS UNLESS A FLAGGER IS PROVIDED AT THE GRADE CROSSING TO PREVENT VEHICLES STOPPING ON THE TRACKS.

IL ROUTE 37

DRILL EXISTING HANDHOLE (2)
7'-PVC-4"
34' M.A.
30" DIAM FDN
13'-6" DEPTH
STA. 14+04.71
42.49' RT (IL 37)
RMF
75'-E
3"
30' M.A.
30" DIAM FDN
10' DEPTH
STA. 14+00.87
28.87' LT (IL 37)
REPLACE EXISTING TRAFFIC SIGNAL CABINET
INSTALL NEW LAYER II SWITCH
INSTALL NEW HYBRID DETECTION SYSTEM
11'-PVC-4"
32'-E
3"
GROUND MOUNT
SERVICE CABINET
NOTE 1
51'-PVC-2"
DRILL EXISTING
HANDHOLE (3)
32'-PVC-4"
16'-PVC-2"
25'-PVC-2"
115'-PVC-2"
42
43
44
45+00
46
47
BOULEVARD ST
72'-PVC-4"
50'-PVC-4"
DRILL EXISTING
FOUNDATION (3)
30' M.A.
30" DIAM FDN
10' DEPTH
STA. 14+72.11
28.46' RT (IL 37)
30' M.A.
30" DIAM FDN
10' DEPTH
STA. 14+62.70
37.45' LT (IL 37)
15+00
16
N
0 20 40 60
SCALE IN FEET

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THIS WORK SHALL BE PAID FOR UNDER "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT".

1	EACH	TRAFFIC SIGNAL CONTROLLER
4	EACH	STEEL MAST ARM ASSEMBLY AND POLE
3	EACH	3-SECTION SIGNAL HEAD

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THIER OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	TRAFFIC SIGNAL CABINET
1	EACH	TRAFFIC SIGNAL POST
1	LSUM	TRAFFIC SIGNAL CABLING
1	EACH	WIRELESS INTERCONNECT RADIO
1	EACH	RADIO ANTENNA

RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED LOCATION, THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

8	EACH	3-SECTION SIGNAL HEAD WITH BACKPLATE

MODEL: $MODELNAME$
FILE NAME: $FILE$

iteris

USER NAME = $USER$	DESIGNED - BF	REVISED -	
	DRAWN - BF	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - ASG	REVISED -	
PLOT DATE = $DATE$	DATE - 11/21/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 37 AND BOULEVARD STREET

SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

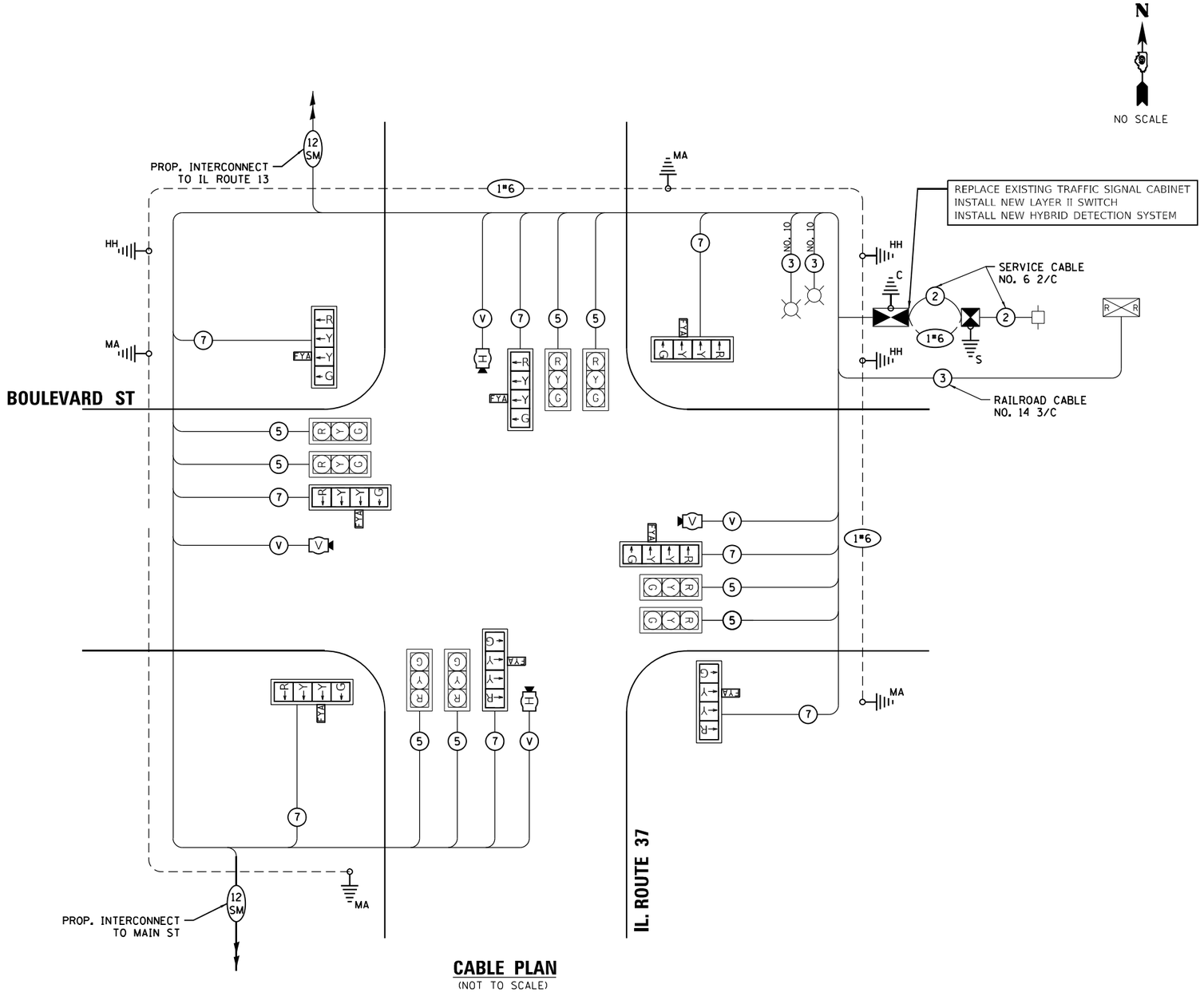
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	15
		CONTRACT NO. 78916		
		ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

- PROP. HYBRID VIDEO/RADAR DETECTION UNIT
- PROP. VIDEO DETECTION UNIT
- PROP. TRAFFIC SIGNAL CONTROLLER
- PROP. GROUND MOUNT SERVICE
- PROP. FIBER OPTIC CABLE
- PROP. NO. OF CONDUCTORS IN CABLE
- PROP .VENDOR SUPPLIED CABLE
- PROP. 12" SIGNAL HEAD
- PROP. FLASHING YELLOW ARROW
- PROP. TERMINAL BLOCK
- PROP. GROUND
- EX. NO. OF CONDUCTORS IN CABLE
- EX. 12" SIGNAL HEAD
- EX. LUMINAIRE
- EX. PEDESTRIAN PUSH BUTTON
- EX. PEDESTRIAN SIGNAL HEAD

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	80
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	245
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	187
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1274
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1226
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	189
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	78
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1 C	FOOT	454
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	43.5
DRILL EXISTING FOUNDATION	EACH	3
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	16
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1965
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
SPARE RAILROAD, FULL ACTUATED CONTROLLER , SPECIAL	EACH	1
CONCRETE FOUNDATIONS, GROUND MOUNT	CU YD	0.5
ETHERNET SWITCH	EACH	1
VIDEO VEHICLE DETECTION SYSTEM	EACH	1



CABLE PLAN
(NOT TO SCALE)

PROPOSED SEQUENCE OF OPERATION

MOVEMENT		1 / 5							6 1			5 2			6 / 2			7 / 3									8 / 3					7 / 4					4 / 8			FLASH
PHASE		1 + 5							1 + 6			2 + 5			2 + 6			3 + 7							3 + 8					4 + 7					4 + 8			
INTERVAL		1	2A	2B	3A	3B	4A	4B	5	6A	6B	7	8A	8B	9	10A	10B	11	12A	12B	13A	13B	14A	14B	15	16A	16B	17A	17B	18	19A	19B	20A	20B	21	22A	22B	
CHANGE TO			1 + 6		2 + 5		2 + 6			2 + 6			2 + 6			3 + 7 3 + 8 4 + 7 4 + 8			3 + 8		4 + 7		4 + 8 1 + 5 1 + 6 2 + 5 2 + 6			4+8		1 + 5 1 + 6 2 + 5 2 + 6		4+8		1 + 5 1 + 6 2 + 5 2 + 6			1 + 5 1 + 6 2 + 5 2 + 6			
IL 37 FAR LEFT AND LEFT MAST ARM SIGNALS	NB	G	Y	R	G	G	Y	R	FYA	FYA	FYA	G	Y	R	FYA	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL 37 MIDDLE AND RIGHT MAST ARM SIGNALS	NB	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL 37 FAR LEFT AND LEFT MAST ARM SIGNALS	SB	G	G	G	Y	R	Y	R	G	Y	R	FYA	FYA	FYA	FYA	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL 37 MIDDLE AND RIGHT MAST ARM SIGNALS	SB	R	R	R	R	R	R	R	G	G	G	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
BOULEVARD ST FAR LEFT AND LEFT MAST ARM SIGNALS	WB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	Y	R	G	Y	R	Y	R	R	R	R	R	R	G	Y	R	R	R
BOULEVARD ST MIDDLE AND RIGHT MAST ARM SIGNALS	WB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	G	Y	R	R	R
BOULEVARD ST FAR LEFT AND LEFT MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	Y	R	R	R	R	R	R	G	Y	R	Y	R	G	Y	R	R	R
BOULEVARD ST MIDDLE AND RIGHT MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	Y	R	R	R

PHASE 2 + 6 SHALL BE PLACED ON RECALL

PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		5		7		9		11		15	18		21						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	2	1F	2	1H	2	1K	2	2	1N	2	1Q	2	3	4	5		
IL 37 FAR LEFT AND LEFT MAST ARM SIGNALS	NB	Y	R	Y	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	FYA	△
IL 37 MIDDLE AND RIGHT MAST ARM SIGNALS	NB	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	G	△
IL 37 FAR LEFT AND LEFT MAST ARM SIGNALS	SB	Y	R	Y	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	△
IL 37 MIDDLE AND RIGHT MAST ARM SIGNALS	SB	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	G	△
BOULEVARD ST FAR LEFT AND LEFT MAST ARM SIGNALS	WB	R	R	R	R	R	R	R	R	G	G	G	R	R	G	G	G	Y	R	R	△
BOULEVARD ST MIDDLE AND RIGHT MAST ARM SIGNALS	WB	R	R	R	R	R	R	R	R	R	R	G	R	R	G	G	G	Y	R	R	△
BOULEVARD ST FAR LEFT AND LEFT MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	Y	R	R	Y	R	Y	R	R	R	R	R	△
BOULEVARD ST MIDDLE AND RIGHT MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	△
																				HOLD	

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Chicago Construction\IDOT PTB 196-063 D9 ITSWO 2 - 11324 - IL Route 13 Interconnect\CAD\Sheet Files\D911324 IL-Route13_Seq_SHT_IL 37 & Boulevard.dgn

iteris®	USER NAME = bfunk	DESIGNED - BF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAILROAD PREEMPTION SEQUENCE OF OPERATIONS IL ROUTE 37 AND BOULEVARD STREET
		DRAWN - BF	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ASG	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 6/18/2025	DATE - 6/18/25	REVISED -		

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	17
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

	CONTROLLER CABINET
	STEEL MAST ARM ASSEMBLY AND POLE
	SIGNAL HEAD WITH BACKPLATE
H	HYBRID VIDEO/RADAR DETECTION UNIT
V	VIDEO DETECTION UNIT
	HANDHOLE
H	HEAVY-DUTY HANDHOLE
	PROPOSED CONDUIT
RL	RELOCATE ITEM
	EXISTING UNDERGROUND CONDUIT
	EXISTING CONTROLLER CABINET
	EXITING HANDHOLE
A	ABANDON ITEM
RMF	STEEL MAST ARM POLE AND FOUNDATION REMOVED
RPF	SIGNAL POST AND FOUNDATION REMOVED

NOTES:

1. RR INTERCONNECT CONDUIT SHALL TERMINATE AT THE JUNCTION BOX (PROVIDED BY RAILROAD) ATTACHED TO THE RAILROAD BUNGALOW.
2. ANY EXISTING TRAFFIC SIGNAL OR DETECTION CABLE THAT INTERFERES WITH THE PROPOSED WORK SHALL BE REMOVED AND DISCARDED. ANY EXISTING CABLE THAT DOES NOT INTERFERE WITH THE PROPOSED WORK MAY BE ABANDONED.
3. CONTRACTOR SHALL VERIFY PROPER CAMERA PLACEMENT WITH VIDEO DETECTION VENDOR PRIOR TO INSTALLATION.
4. VIDEO DETECTION ZONE LAYOUT SHALL BE DRAWN TO PROVIDE FULL SIGNAL PERFORMANCE MEASURES (SPM) CAPABILITIES.
5. CONDUIT LENGTH DIMENSIONS SHOWN IN CALLOUT ARE CORRECT BASED ON FIELD MEASUREMENTS. LINE LENGTHS MAY NOT BE ACCURATE.
6. WHEN A GRADE CROSSING EXISTS WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT BE PERFORMED IN A MANNER THAT WOULD CAUSE VEHILCES TO STOP ON THE TRACKS UNLESS A FLAGGER IS PROVIDED AT THE GRADE CROSSING TO PREVENT VEHILCES STOPPINGON THE TRACKS.
7. THE RAILROAD INTERCONNECT WIRE SHALL BE INSTALLED IN A 2" CONDUIT UNDER THE RAILROAD GRADE AT A MIN. DEPTH OF 6' ENCASED IN 4" STEEL PIPE (SEE DETAIL "A").
8. CONTRACTOR SHALL CONTACT IDOT GEOTECHNICAL UNIT PRIOR TO DRILLING FOR MAST ARM FOUNDATION TO VERIFY SOIL CONDITIONS IN ALL FOUR QUADRANTS.
9. THERE IS A LARGE BOX CULVERT THAT RUNS BENEATH THE INTERSECTION. WHEN IN CONFLICT WITH PROPOSED CONDUIT, CONDUIT SHALL BE PLACED ABOVE THE BOX CULVERT.

REPLACE EXISTING TRAFFIC SIGNAL CABINET
INSTALL NEW LAYER II SWITCH
INSTALL NEW HYBRID DETECTION SYSTEM

7'-E 4"
7'-E 2"
15'-E 2"
95'-E 2"
95'-E 3"
9'-E 2"
88'-E 2"
88'-E 2"
10'-E 1½"
8'-E 2"
90'-E 3"
13'-E 2"
5'-E 2"

48' M.A.
36" DIAM FDN
18.75' DEPTH
STA. 36+63.71
46.90' LT (IL 37)

6'-PVC-4"
RMF
DRILL EXISTING HANDHOLE
178'-PVC-2"
DRILL EXISTING HANDHOLE
STA. EQUATION
37+31.20 BK =
0+00.00 AH
DRILL EXISTING HANDHOLE
26'-PVC-4"
38' M.A.
30" DIAM FDN
13'-6" DEPTH
STA. 00+42.87
37.99 RT (IL 37)

50'- 4" DIA STEEL CASING
83'-PVC-2"
33'-PVC-2"
NOTE 1

IL ROUTE 37
MAIN ST
MISSOURI PACIFIC

44 | 45+00 | 46 | 47 | 48 | 49 | 50+00

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THIS WORK SHALL BE PAID FOR UNDER "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT".

1	EACH	TRAFFIC SIGNAL CONTROLLER
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE
2	EACH	5-SECTION SIGNAL HEAD WITH BACKPLATE
2	EACH	5-SECTION SIGNAL HEAD
1	EACH	RADAR DETECTION SYSTEM

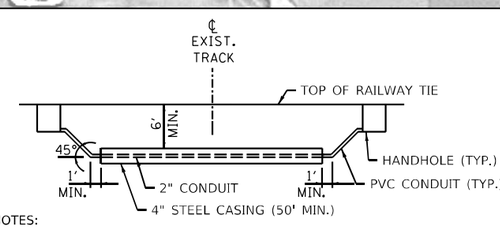
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THIER OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE,

1	EACH	TRAFFIC SIGNAL CABINET
1	LSUM	TRAFFIC SIGNAL CABLING
1	EACH	RADIO ANTENNA

RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED LOCATION, THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

2	EACH	3-SECTION SIGNAL HEAD WITH BACKPLATE
2	EACH	5-SECTION SIGNAL HEAD WITH BACKPLATE
3	EACH	1-SECTION PEDESTRIAN SIGNAL HEAD
2	EACH	PEDESTRIAN PUSH BUTTON



NOTES:
1. ALL HORIZONTAL DISTANCES TO BE MEASURED AT RIGHT ANGLES FROM THE CENTERLINE OF TRACK.
2. RAILROAD SIGNAL REPRESENTATIVE MUST BE PRESENT DURING INSTALLATION IF RAILROAD SIGNALS ARE IN THE VICINITY OF THE CROSSING.

DETAIL "A"

NOT TO SCALE

N

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: c:\Sharepoint\ITERIS Inc\Systems - Midwest - Chicago Construction\IDOT PTB 196-063 D9 ITSWO 2 - 11324 - IL Route 13 Interconnect\CAD\Sheet Files\D911324 IL-Route13_TS_Sht_IL_37_6_Main.dgn

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USER NAME = bfunk	DESIGNED - BF	REVISED -			
	DRAWN - BF	REVISED -			
PLOT SCALE = 100.0000 ' / in.	CHECKED - ASG	REVISED -			
PLOT DATE = 6/18/2025	DATE - 6/18/25	REVISED -			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 37 AND MAIN STREET

SCALE: 1" = 20' | SHEET OF SHEETS | STA. | TO STA.

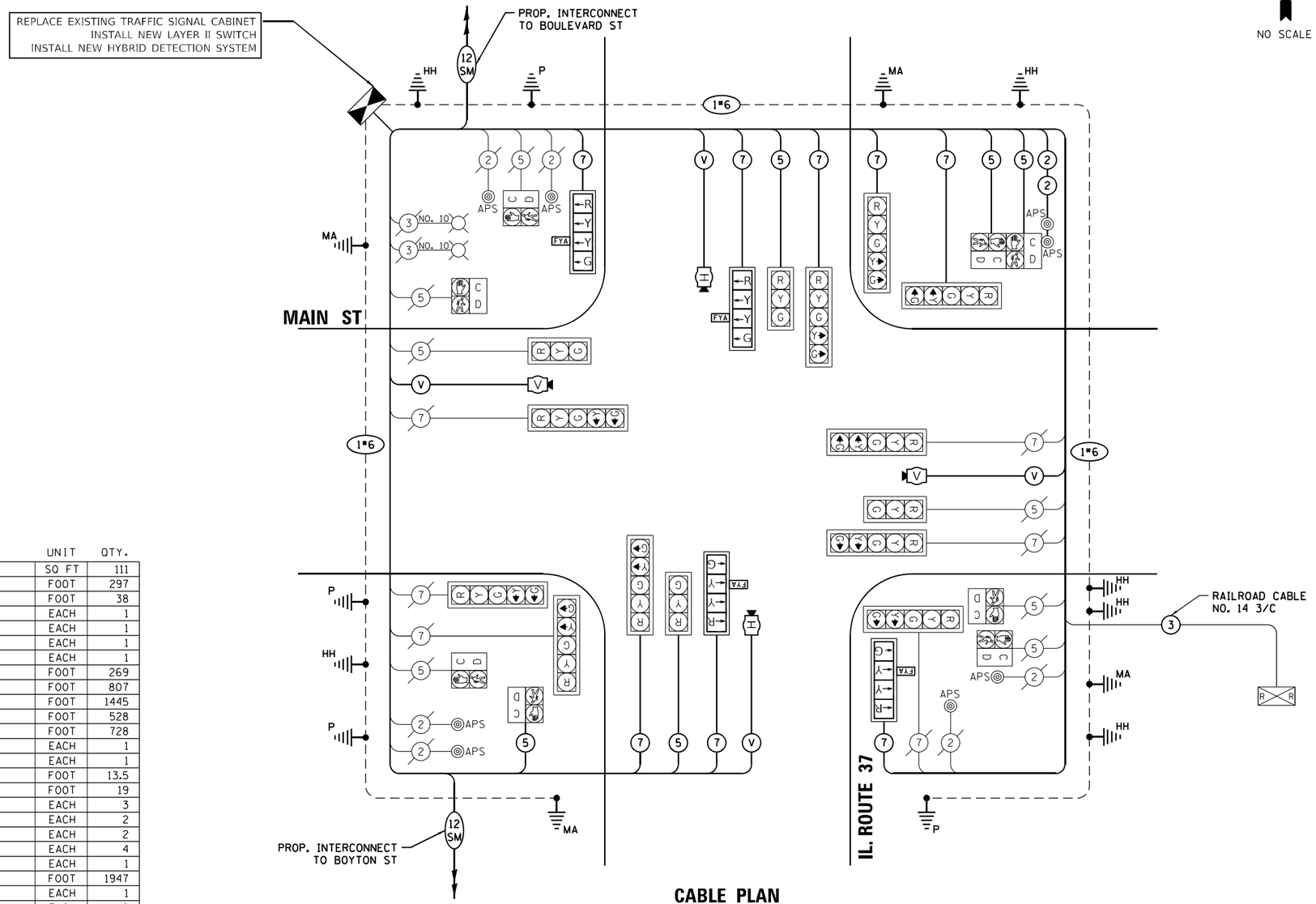
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	18
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

- PROP. HYBRID VIDEO/RADAR DETECTION UNIT
- PROP. VIDEO DETECTION UNIT
- PROP. TRAFFIC SIGNAL CONTROLLER
- PROP. GROUND MOUNT SERVICE
- PROP. FIBER OPTIC CABLE
- PROP. NO. OF CONDUCTORS IN CABLE
- PROP ,VENDOR SUPPLIED CABLE
- PROP. 12" SIGNAL HEAD
- PROP. FLASHING YELLOW ARROW
- PROP. TERMINAL BLOCK
- PROP. GROUND
- EX. NO. OF CONDUCTORS IN CABLE
- EX. 12" SIGNAL HEAD
- EX. LUMINAIRE
- EX. PEDESTRIAN PUSH BUTTON
- EX. PEDESTRIAN SIGNAL HEAD

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	111
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	297
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	38
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	269
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	807
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1445
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	528
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	728
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	19
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	4
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1947
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
SPARE RAILROAD, FULL ACTUATED CONTROLLER , SPECIAL	EACH	1
ETHERNET SWITCH	EACH	1
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
STEEL CASINGS 4"	FOOT	50



CABLE PLAN
(NOT TO SCALE)

PROPOSED SEQUENCE OF OPERATION

MOVEMENT	N	1 / 5	6P 6 1	5 2 2P	6P 6 / 2 2P	7 3	8P 8 3	7 4 4P	8P 8 4 4P	FLASH
PHASE		1 + 5	1 + 6	2 + 5	2 + 6	3 + 7	3 + 8	4 + 7	4 + 8	
INTERVAL		1 2A 2B 3A 3B 4A 4B	5 6 7A 7B	8 9 10A 10B	11 12 13A 13B	14 15A 15B 16A 16B 17A 17B	18 19 20A 20B 21A 21B	22 23 24A 24B 25A 25B	26 27 28A 28B	
CHANGE TO		/ 1+6 2+5 2+6	Ø Ø 2+6	Ø Ø 2+6	/ / 3+7 3+8 4+7 4+8	/ 3+8 4+7 4+8 1+5 1+6 2+5 2+6	Ø Ø 4+8 1+5 1+6 2+5 2+6	Ø Ø 4+8 1+5 1+6 2+5 2+6	/ / 1+5 1+6 2+5 2+6	
IL 37 FAR LEFT AND LEFT MAST ARM SIGNALS	NB	G Y R G G Y R	FYA FYA FYA FYA	G G Y R	FYA FYA Y R	R R R R R R R	R R R R R R	R R R R R R	R R R R	R
IL 37 MIDDLE MAST ARM SIGNALS	NB	R R R R R R R	R R R R	G G G G	G G Y R	R R R R R R R	R R R R R R	R R R R R R	R R R R	R
IL 37 FAR RIGHT AND RIGHT MAST ARM SIGNALS	NB	R R R R R R R	R R R R	G G G G	G G Y R	RG RG RG RY R RY R	RG RG RY R RY R	R R R R R R	R R R R	R
IL 37 FAR LEFT AND LEFT MAST ARM SIGNALS	SB	G G G Y R Y R	G G Y R	FYA FYA FYA FYA	FYA FYA Y R	R R R R R R R	R R R R R R	R R R R R R	R R R R	R
IL 37 MIDDLE MAST ARM SIGNALS	SB	R R R R R R R	G G G G	R R R R	G G Y R	R R R R R R R	R R R R R R	R R R R R R	R R R R	R
IL 37 FAR RIGHT AND RIGHT MAST ARM SIGNALS	SB	R R R R R R R	G G G G	R R R R	G G Y R	RG RY R RG RG RY R	R R R R R R	RG RG RY R RY R	R R R R	R
MAIN ST FAR LEFT AND LEFT MAST ARM SIGNALS	WB	R R R R R R R	R R R R	R R R R	R R R R	G G G Y R Y R	G G Y R Y R	R R R R R R	G G Y R	R
MAIN ST MIDDLE AND RIGHT MAST ARM SIGNALS	WB	R R R R R R R	R R R R	R R R R	R R R R	R R R R R R R	G G G G Y R	R R R R R R	G G Y R	R
MAIN ST FAR LEFT AND LEFT MAST ARM SIGNALS	EB	R R R R R R R	R R R R	R R R R	R R R R	G Y R G G Y R	R R R R R R	G G Y R Y R	G G Y R	R
MAIN ST MIDDLE MAST ARM SIGNALS	EB	R R R R R R R	R R R R	R R R R	R R R R	R R R R R R R	R R R R R R	G G G G Y R	G G Y R	R
MAIN ST FAR RIGHT AND RIGHT MAST ARM SIGNALS	EB	RG RY R RG RG RY R	R R R R	RG RG RY R	R R R R	R R R R R R R	R R R R R R	G G G G Y R	G G Y R	R
PEDESTRIAN SIGNALS CROSSING EAST APPROACH (PH 2 PED)		H H H H H H H	H H H H	•P ••FH H H	•P ••FH H H	H H H H H H H	H H H H H H	H H H H H H	H H H H	DARK
PEDESTRIAN SIGNALS CROSSING WEST APPROACH (PH 6 PED)		H H H H H H H	•P ••FH H H	H H H H	•P ••FH H H	H H H H H H H	H H H H H H	H H H H H H	H H H H	DARK
PEDESTRIAN SIGNALS CROSSING SOUTH APPROACH (PH 4 PED)		H H H H H H H	H H H H	H H H H	H H H H	H H H H H H H	H H H H H H	•P ••FH H H H H	•P ••FH H H	DARK
PEDESTRIAN SIGNALS CROSSING NORTH APPROACH (PH 8 PED)		H H H H H H H	H H H H	H H H H	H H H H	H H H H H H H	•P ••FH H H H H	H H H H H H	•P ••FH H H	DARK

PHASE 2 + 6 SHALL BE PLACED ON RECALL

• TO APPEAR ONLY UPON PUSH BUTTON ACTUATION
•• FLASHING "HAND" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL

Ø THE "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS. "WALK" AND FLASHING "DON'T WALK" TIMINGS TO BE SET ONLY ON THE PHASES WHERE "WALK" AND FLASHING "DON'T WALK" ARE INDICATED IN THE SEQUENCE OF OPERATION.

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		5		8		11		14		18		22		26						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	2	1F	2	1H	2	1K	2	1M	2	1P	2	1R	2	3	4	5		
IL 37 FAR LEFT AND LEFT MAST ARM SIGNALS	NB	Y ←	R ←	R ←	R ←	Y ←	R ←	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	FYA ←	△
IL 37 MIDDLE MAST ARM SIGNALS	NB	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	△
IL 37 FAR RIGHT AND RIGHT MAST ARM SIGNALS	NB	R	R	R	R	Y	R	Y	R	R Y →	R	R Y →	R	R	R	R	R	R	R	R	G	△
IL 37 FAR LEFT AND LEFT MAST ARM SIGNALS	SB	Y ←	R ←	Y ←	R ←	R ←	R ←	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	△
IL 37 MIDDLE MAST ARM SIGNALS	SB	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	△
IL 37 FAR RIGHT AND RIGHT MAST ARM SIGNALS	SB	R	R	Y	R	R	R	Y	R	R Y →	R	R	R	R Y →	R	R	R	R	R	R	G	△
MAIN ST FAR LEFT AND LEFT MAST ARM SIGNALS	WB	R	R	R	R	R	R	R	R	G ←	G ←	G ←	G ←	R	R	G	G	G ←	Y	R	R	△
MAIN ST MIDDLE AND RIGHT MAST ARM SIGNALS	WB	R	R	R	R	R	R	R	R	R	R	G	G	R	R	G	G	G	Y	R	R	△
MAIN ST FAR LEFT AND LEFT MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	Y ←	R	R ←	R ←	Y	R	Y	R	R	R	R	R	△
MAIN ST MIDDLE MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	△
MAIN ST FAR RIGHT AND RIGHT MAST ARM SIGNALS	EB	R Y →	R	R	R	R Y →	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	△
PEDESTRIAN SIGNALS CROSSING EAST APPROACH (PH 2 PED)		H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING WEST APPROACH (PH 6 PED)		H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING SOUTH APPROACH (PH 4 PED)		H	H	H	H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING NORTH APPROACH (PH 8 PED)		H	H	H	H	H	H	H	H	H	H	FH	H	H	H	FH	H	H	H	H	H	△
																					HOLD	

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

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iteris®	USER NAME = bfunk	DESIGNED - BF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAILROAD PREEMPTION SEQUENCE OF OPERATIONS IL ROUTE 13 AND MAIN STREET
		DRAWN - BF	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ASG	REVISED -		
	PLOT DATE = 6/18/2025	DATE - 11/15/21	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

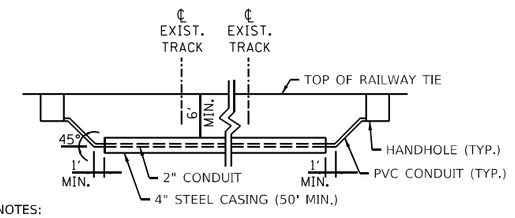
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	21
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

	CONTROLLER CABINET
	STEEL MAST ARM ASSEMBLY AND POLE
	SIGNAL HEAD WITH BACKPLATE
H	HYBRID VIDEO/RADAR DETECTION UNIT
V	VIDEO DETECTION UNIT
	HANDHOLE
H	HEAVY-DUTY HANDHOLE
	PROPOSED CONDUIT
RL	RELOCATE ITEM
	EXISTING UNDERGROUND CONDUIT
	EXISTING CONTROLLER CABINET
	EXITING HANDHOLE
A	ABANDON ITEM
RMF	STEEL MAST ARM POLE AND FOUNDATION REMOVED
RPF	SIGNAL POST AND FOUNDATION REMOVED

NOTES:

1. RR INTERCONNECT CONDUIT SHALL TERMINATE AT THE JUNCTION BOX (PROVIDED BY RAILROAD) ATTACHED TO THE RAILROAD BUNGALOW.
2. ANY EXISTING TRAFFIC SIGNAL OR DETECTION CABLE THAT INTERFERES WITH THE PROPOSED WORK SHALL BE REMOVED AND DISCARDED. ANY EXISTING CABLE THAT DOES NOT INTERFERE WITH THE PROPOSED WORK MAY BE ABANDONED.
3. CONTRACTOR SHALL VERIFY PROPER CAMERA PLACEMENT WITH VIDEO DETECTION VENDOR PRIOR TO INSTALLATION.
4. VIDEO DETECTION ZONE LAYOUT SHALL BE DRAWN TO PROVIDE FULL SIGNAL PERFORMANCE MEASURES (SPM) CAPABILITIES.
5. CONDUIT LENGTH DIMENSIONS SHOWN IN CALLOUT ARE CORRECT BASED ON FIELD MEASUREMENTS. LINE LENGTHS MAY NOT BE ACCURATE.
6. WHEN A GRADE CROSSING EXISTS WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT BE PERFORMED IN A MANNER THAT WOULD CAUSE VEHILCES TO STOP ON THE TRACKS UNLESS A FLAGGER IS PROVIDED AT THE GRADE CROSSING TO PREVENT VEHILCES STOPPINGON THE TRACKS,
7. THE RAILROAD INTERCONNECT WIRE SHALL BE INSTALLED IN A 2" CONDUIT UNDER THE RAILROAD GRADE AT A MIN. DEPTH OF 6' ENCASED IN 4" STEEL PIPE (SEE DETAIL "A").



NOTES:
1. ALL HORIZONTAL DISTANCES TO BE MEASURED AT RIGHT ANGLES FROM THE CENTERLINE OF TRACK.
2. RAILROAD SIGNAL REPRESENTATIVE MUST BE PRESENT DURING INSTALLATION IF RAILROAD SIGNALS ARE IN THE VICINITY OF THE CROSSING.

DETAIL "A"

NOT TO SCALE

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THIS WORK SHALL BE PAID FOR UNDER "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT".

1	EACH	TRAFFIC SIGNAL CONTROLLER
1	EACH	RADAR DETECTION SYSTEM

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THIER OWN EXPENSE, THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	TRAFFIC SIGNAL CABINET
1	LSUM	TRAFFIC SIGNAL CABLING
1	EACH	3-SECTION SIGNAL HEAD
1	EACH	TRAFFIC SIGNAL POST
1	EACH	RADIO ANTENNA

MODEL: $MODELNAME$
FILE NAME: $FILE$

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	DRAWN - BF	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - ASG	REVISED -	
PLOT DATE = $DATE$	DATE - 11/21/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
IL ROUTE 13 AND BOYTON STREET / HENDRICKSON STREET

SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	22
		CONTRACT NO. 78916		
		ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

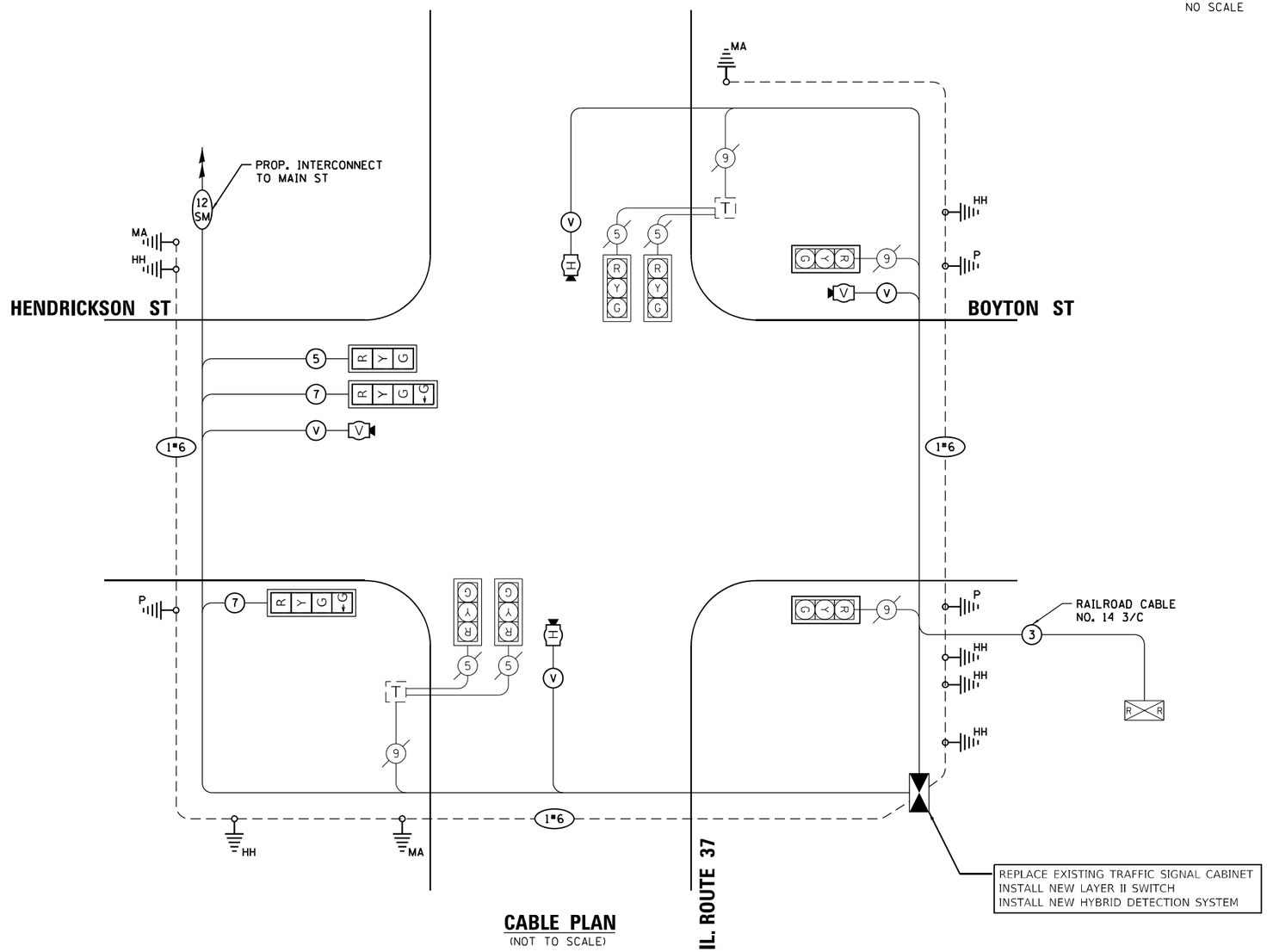
- PROP. HYBRID VIDEO/RADAR DETECTION UNIT
- PROP. VIDEO DETECTION UNIT
- PROP. TRAFFIC SIGNAL CONTROLLER
- PROP. GROUND MOUNT SERVICE
- 12SM — PROP. FIBER OPTIC CABLE
- 5 — PROP. NO. OF CONDUCTORS IN CABLE
- V — PROP .VENDOR SUPPLIED CABLE
- R — PROP. 12" SIGNAL HEAD
- FYA — PROP. FLASHING YELLOW ARROW
- T — PROP. TERMINAL BLOCK
- PROP. GROUND
- 5 — EX. NO. OF CONDUCTORS IN CABLE
- R — EX. 12" SIGNAL HEAD
- EX. LUMINAIRE
- EX. PEDESTRIAN PUSH BUTTON
- EX. PEDESTRIAN SIGNAL HEAD

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	20
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	348
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	10
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	176
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	294
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	390
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	632
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	9
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	263
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
SPARE RAILROAD, FULL ACTUATED CONTROLLER , SPECIAL	EACH	1
ETHERNET SWITCH	EACH	1
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
STEEL CASINGS 4"	FOOT	50
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE III CABINET, SPECIAL	EACH	1

N

NO SCALE



CABLE PLAN
(NOT TO SCALE)

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Chicago Construction\IDOT PTB 196-063 D9 TSWO 2 - 11324 - IL Route 13 Interconnect\CAD\Sheet Files\D911324 IL-Route13_Cable_Sht_IL 37 & Boyton.dgn

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PLOT SCALE = 100.0000 ' / in.	CHECKED - ASG	REVISED -	
PLOT DATE = 12/8/2023	DATE - 12/8/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
IL ROUTE 37 AND BOYTON STREET / HENDRICKSON STREET

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	23
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		

PROPOSED SEQUENCE OF OPERATION

MOVEMENT		6 ↓ / 2 ↑			4 → / ← 8			FLASH
PHASE		2 + 6			4 + 8			
INTERVAL		1	2A	2B	3	4A	4B	
CHANGE TO		/	4 + 8		/	2 + 6		
IL 37 MAST ARM SIGNALS	NB	G	Y	R	R	R	R	R
IL 37 MAST ARM SIGNALS	SB	G	Y	R	R	R	R	R
BOYTON ST/HENDRICKSON ST FAR LEFT AND LEFT MAST ARM SIGNALS	WB	R	R	R	G	Y	R	R
BOYTON ST/HENDRICKSON ST RIGHT MAST ARM SIGNALS	WB	R	R	R	G	Y	R	R
BOYTON ST/HENDRICKSON ST FAR LEFT AND FAR RIGHT SIGNALS	EB	R	R	R	G	Y	R	R

PHASE 2 + 6 SHALL BE PLACED ON RECALL

PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		3						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	2	3	4	5	■	NORMAL SEQUENCE
IL 37 MAST ARM SIGNALS	NB	Y	R	R	R	R	R	R	G	△
IL 37 MAST ARM SIGNALS	SB	Y	R	R	R	R	R	R	G	△
BOYTON ST/HENDRICKSON ST FAR LEFT AND LEFT MAST ARM SIGNALS	WB	R	R	G	G	G ← G	Y	R	R	△
BOYTON ST/HENDRICKSON ST RIGHT MAST ARM SIGNALS	WB	R	R	G	G	G	Y	R	R	△
BOYTON ST/HENDRICKSON ST FAR LEFT AND FAR RIGHT SIGNALS	EB	R	R	Y	R	R	R	R	R	△
									HOLD	

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

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PLOT DATE = 12/15/2023	DATE - 12/28/21	REVISED -	

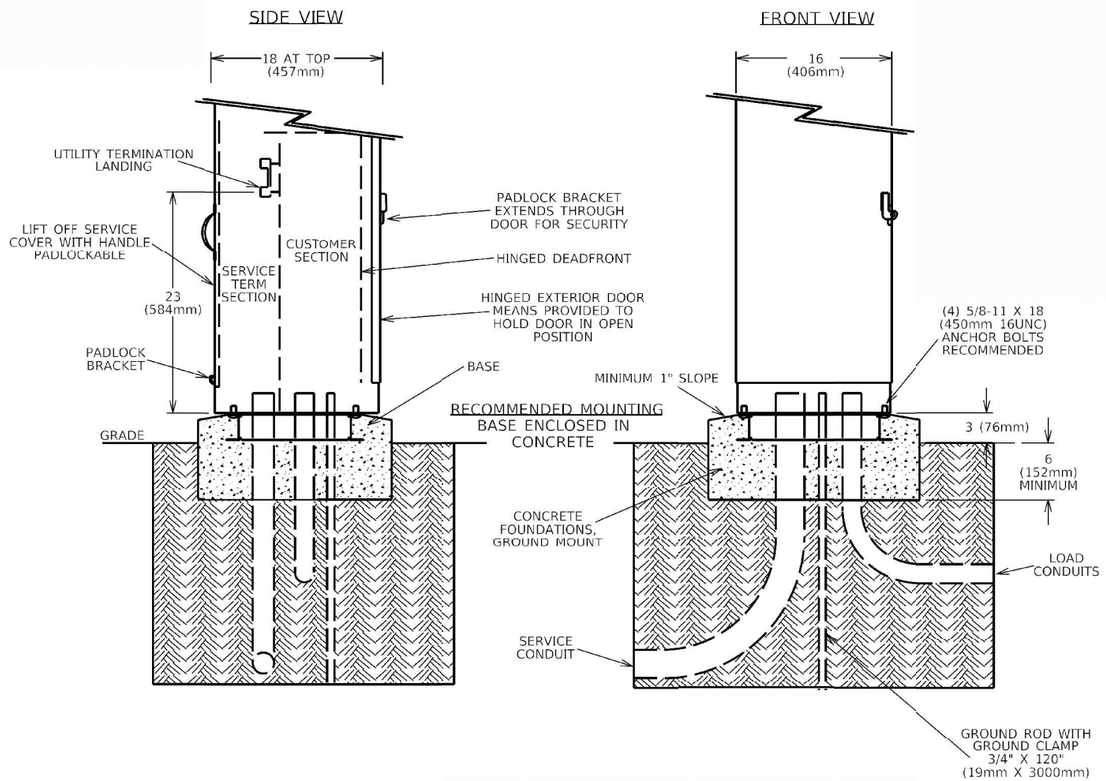
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

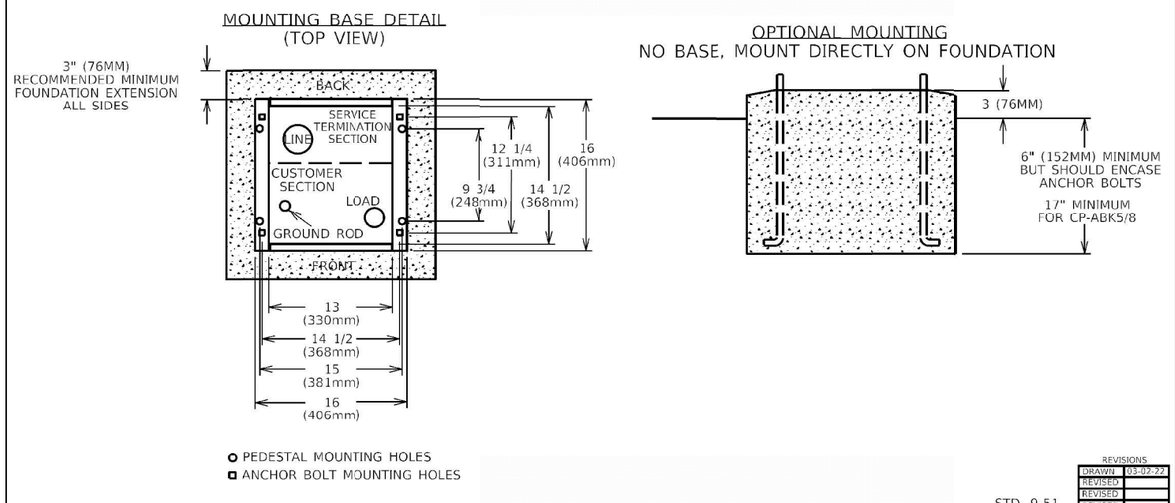
RAILROAD PREEMPTION SEQUENCE OF OPERATIONS
IL ROUTE 37 AND BOYTON STREET / HENDRICKSON STREET

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	24
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		

CABINET FOR SERVICE INSTALLATION GROUND MOUNT AND CONCRETE FOUNDATIONS, GROUND MOUNT





REVISIONS	
DRAWN	03-02-22
REVISED	
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STD. 9-51

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	DRAWN -	REVISED -
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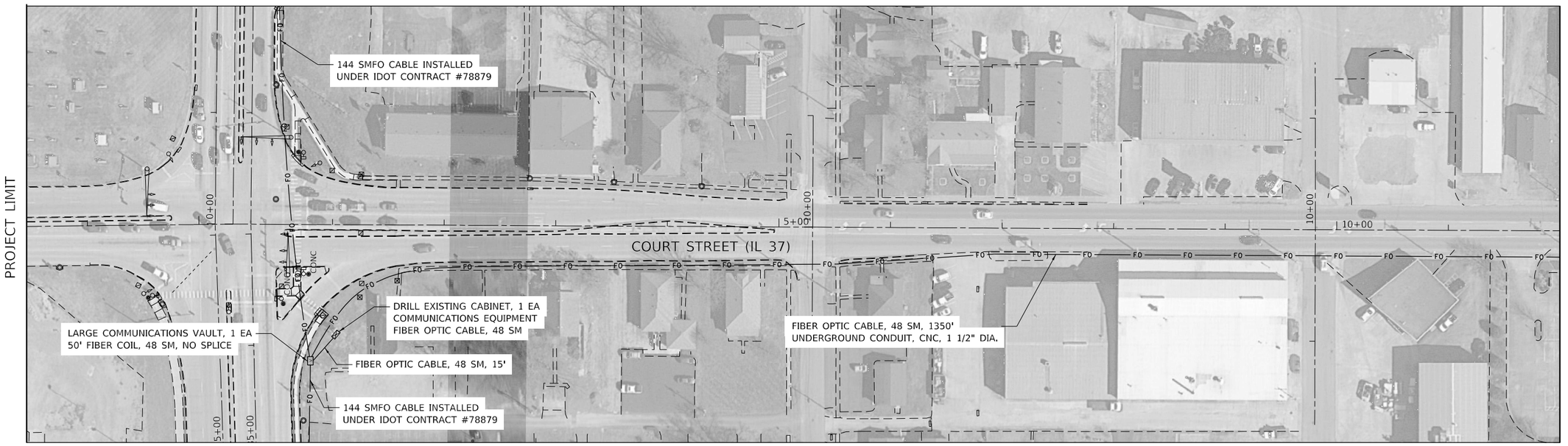
PLOT DATE = 12/15/2023	DATE - 3/21/22	REVISED -

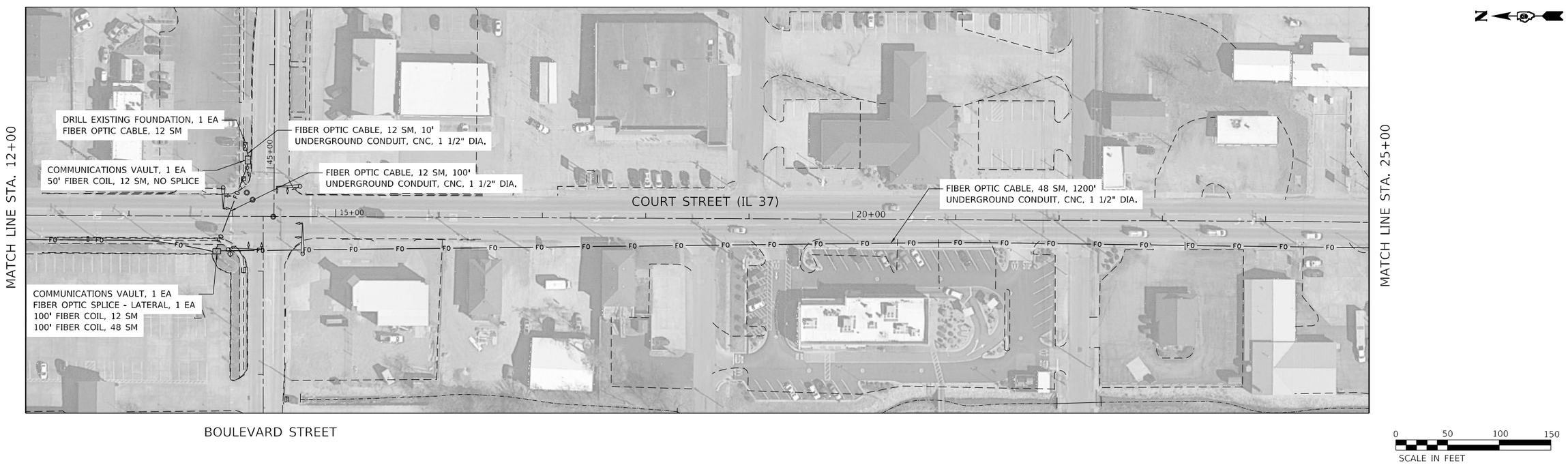
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GROUND MOUNT SERVICE DETAIL

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	25
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		





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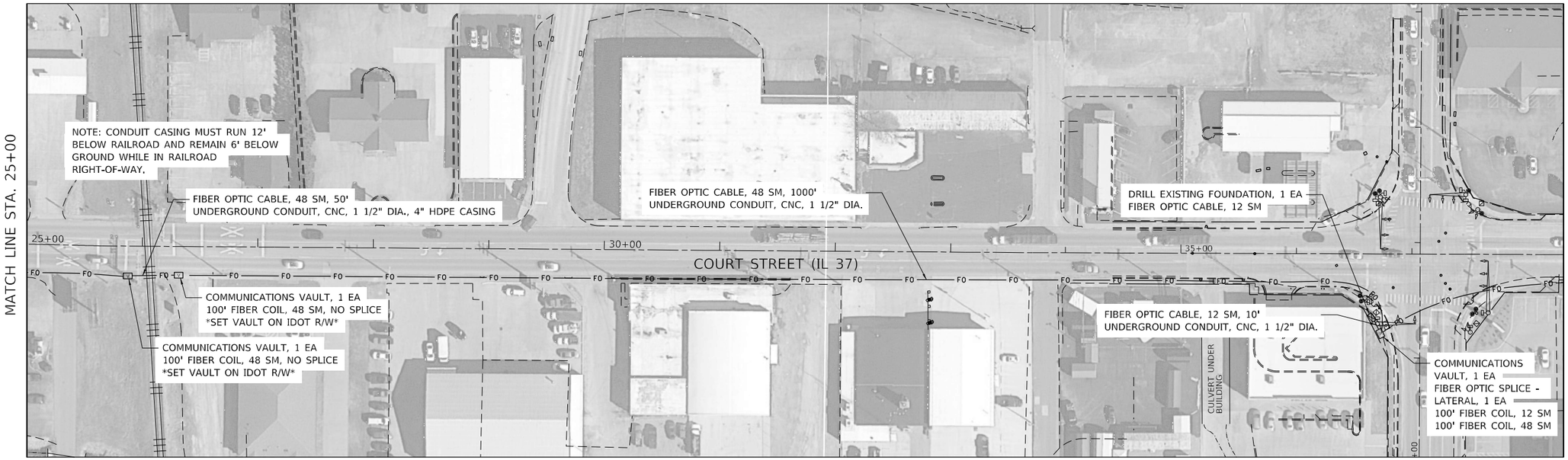
PLOT DATE = 3/22/2022	DATE -	REVISED -	

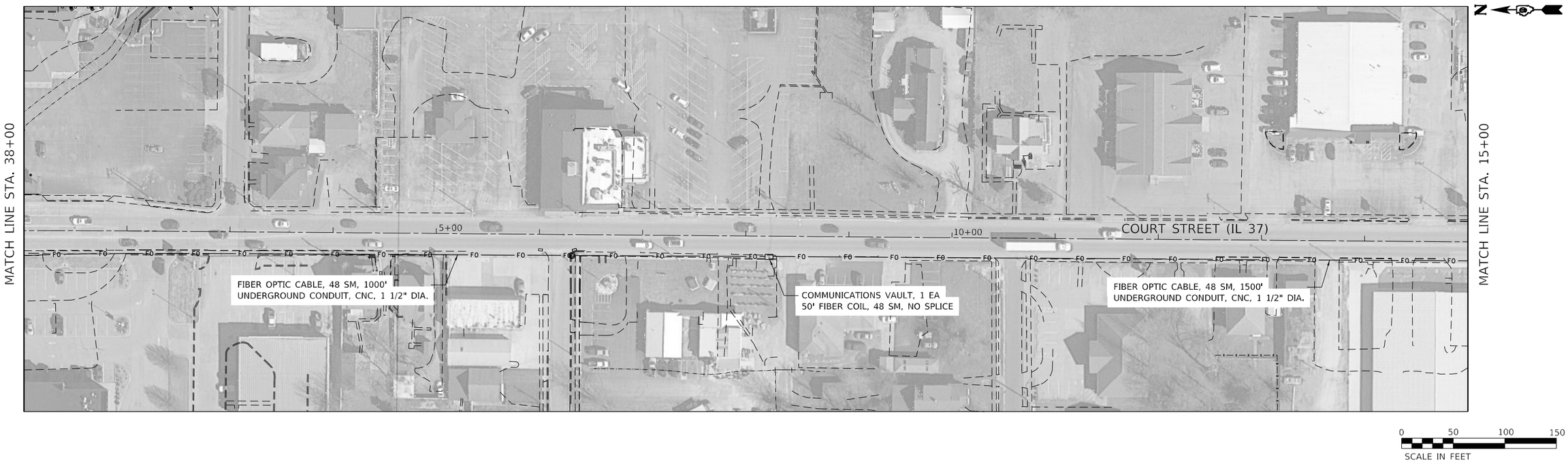
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC INSTALLATION
IL ROUTE 37

SCALE: 1" = 50' | SHEET OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	26
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			





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PLOT DATE = 3/22/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC INSTALLATION
IL ROUTE 37

SCALE: 1" = 50' | SHEET OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	27
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		

BOYTON STREET

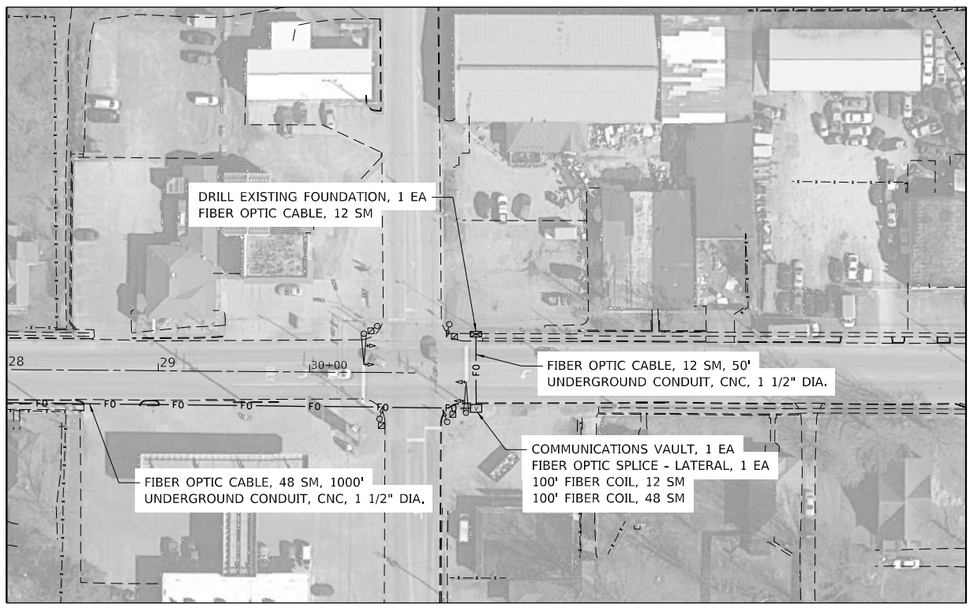
MATCH LINE STA. 15+00

MATCHLINE STA. 28+00

HENDRICKSON STREET

0 50 100 150
SCALE IN FEET

MATCH LINE STA. 28+00



PROJECT LIMIT

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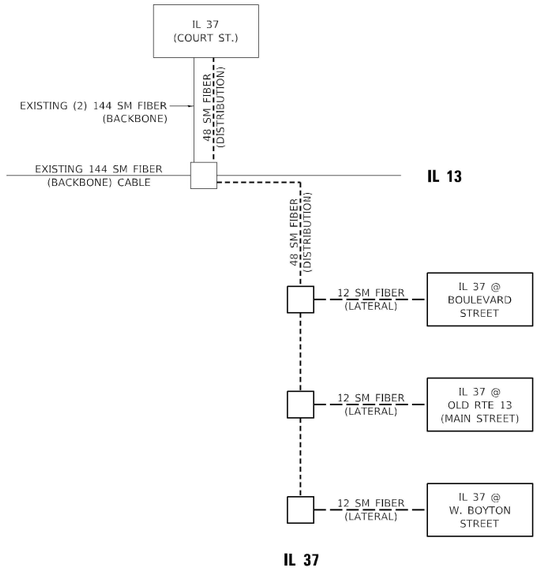
	DRAWN - CA	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - BF	REVISED -	
PLOT DATE = 3/22/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC INSTALLATION
IL ROUTE 37

SCALE: 1" = 50' | SHEET OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	28
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SEE CONTRACT NO. 78879 FOR EXISTING CONDUIT AND CABLE DETAILS

LEGEND

EXISTING	PROPOSED	
INTERSECTION NAME	INTERSECTION NAME	INTERSECTION STREET NAME
		COMMUNICATIONS VAULT
		12 SINGLE MODE FIBER (LATERAL) CABLE
		48 SINGLE MODE FIBER (SMF) DISTRIBUTION
		144 SINGLE MODE FIBER (BACKBONE) CABLE

MODEL: Default
FILE NAME: S:\Projects\2022 - IDOT PTB 196-03 - Iters\Project Work\CADD\CADD Sheets\02 - FinalTask 2 - IL 37\IDOT D9 IL37 ITS Fiber Topology 01.dgn

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Chicago, Illinois 60606

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	DRAWN - DLB	REVISED -			
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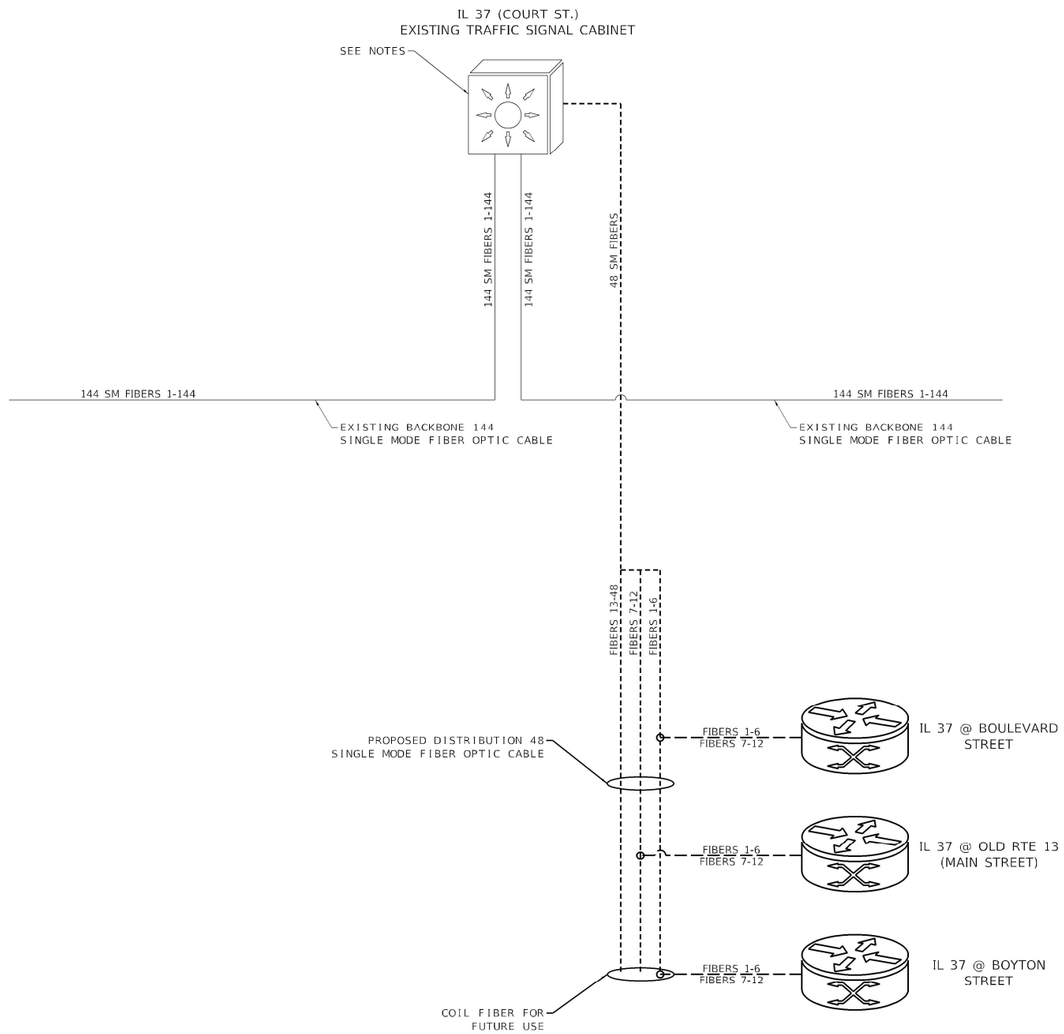
PLOT DATE = 12/29/2021	DATE - 12/29/2021	REVISED -			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER COMMUNICATIONS SYSTEM TOPOLOGY

SCALE: N.T.S. | SHEET OF SHEETS | STA. N.A. | TO STA. N.A.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	29
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		



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NOTES:

1. SEE CONTRACT NO. 78879 FOR EXISTING DETAILS AT THE IL 13 AND IL 37 CABINET

LEGEND:

- LAYER 2 NETWORK SWITCH
- LAYER 3 NETWORK SWITCH
- SPLICE LOCATION
- 12 SINGLE MODE FIBER (SMF) LATERAL
- 48 SINGLE MODE FIBER (SMF) BACKBONE
- 144 SINGLE MODE FIBER (SMF) BACKBONE

MODEL: Default
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FIBER COMMUNICATIONS SYSTEM SCHEMATIC

SCALE: N.T.S. | SHEET OF SHEETS | STA. N.A. | TO STA. N.A.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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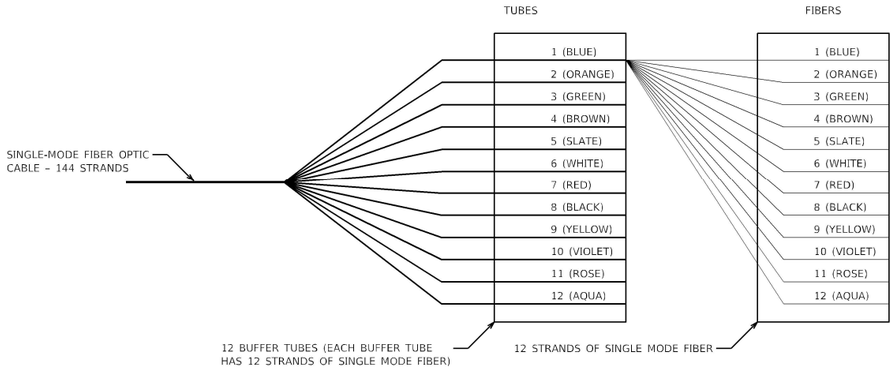
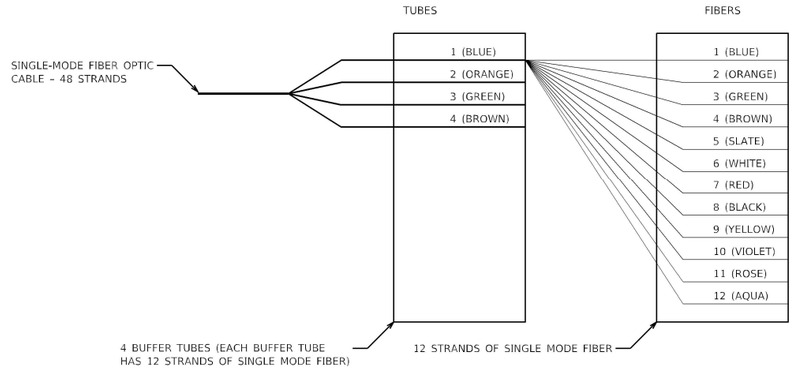
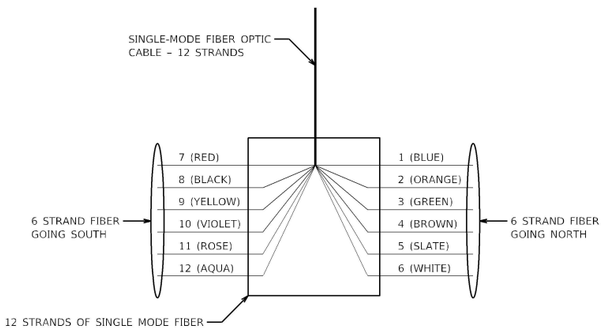
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		



144 SINGLE MODE FIBER CABLE COLOR CODE



48 SINGLE MODE FIBER CABLE COLOR CODE



LATERAL 12 SINGLE MODE FIBER CABLE COLOR CODE

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PLOT DATE = 12/29/2021	DATE - 12/29/2021	REVISED - _____

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DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE TYPICAL DETAIL

SCALE: N.T.S. | SHEET OF SHEETS | STA. N.A. | TO STA. N.A.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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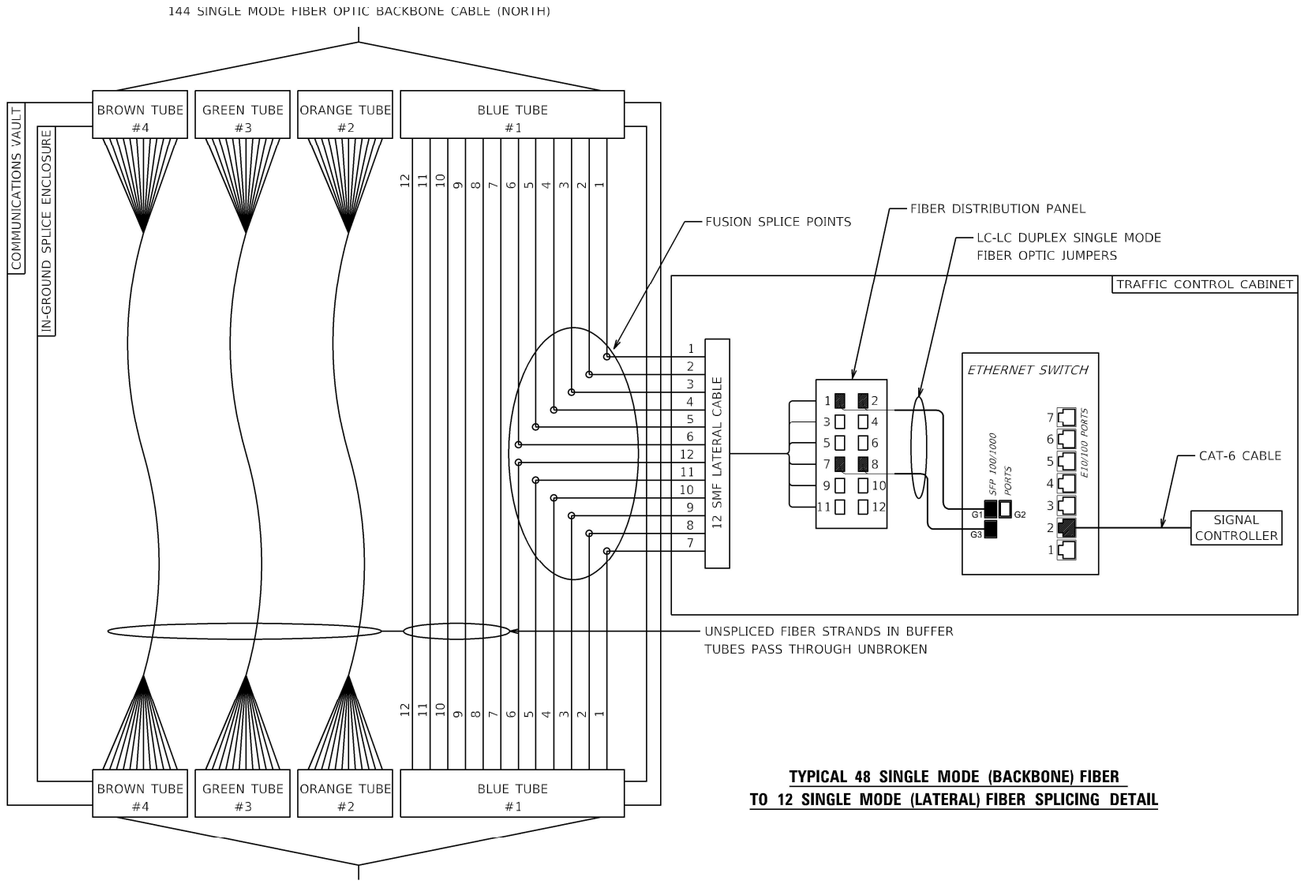
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		



IL 37 COMMUNICATIONS CABINET SOUTH PATCH PANEL	48 SMF	SPLICE TO	BOULEVARD STREET LATERAL FIBER		SPLICE TO	48 SMF	SPLICE TO	BOYTON STREET LATERAL FIBER		SPLICE TO	48 SMF
1	1	-	1	7	-	1	-	1	7	-	1
2	2	-	2	8	-	2	-	2	8	-	2
3	3	-	3	9	-	3	-	3	9	-	3
4	4	-	4	10	-	4	-	4	10	-	4
5	5	-	5	11	-	5	-	5	11	-	5
6	6	-	6	12	-	6	-	6	12	-	6

TYPICAL 48 SINGLE MODE (BACKBONE) FIBER TO 12 SINGLE MODE (LATERAL) FIBER SPLICING DETAIL

MODEL: Default
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PLOT DATE = 12/29/2021	DATE - 12/29/2021	REVISED -

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DEPARTMENT OF TRANSPORTATION

TYPICAL 48 SINGLE MODE (BACKBONE) FIBER TO 12 SIGNAL MODE (LATERAL) FIBER SPLICING DETAIL

SCALE: N.T.S. | SHEET OF SHEETS | STA. N.A. | TO STA. N.A.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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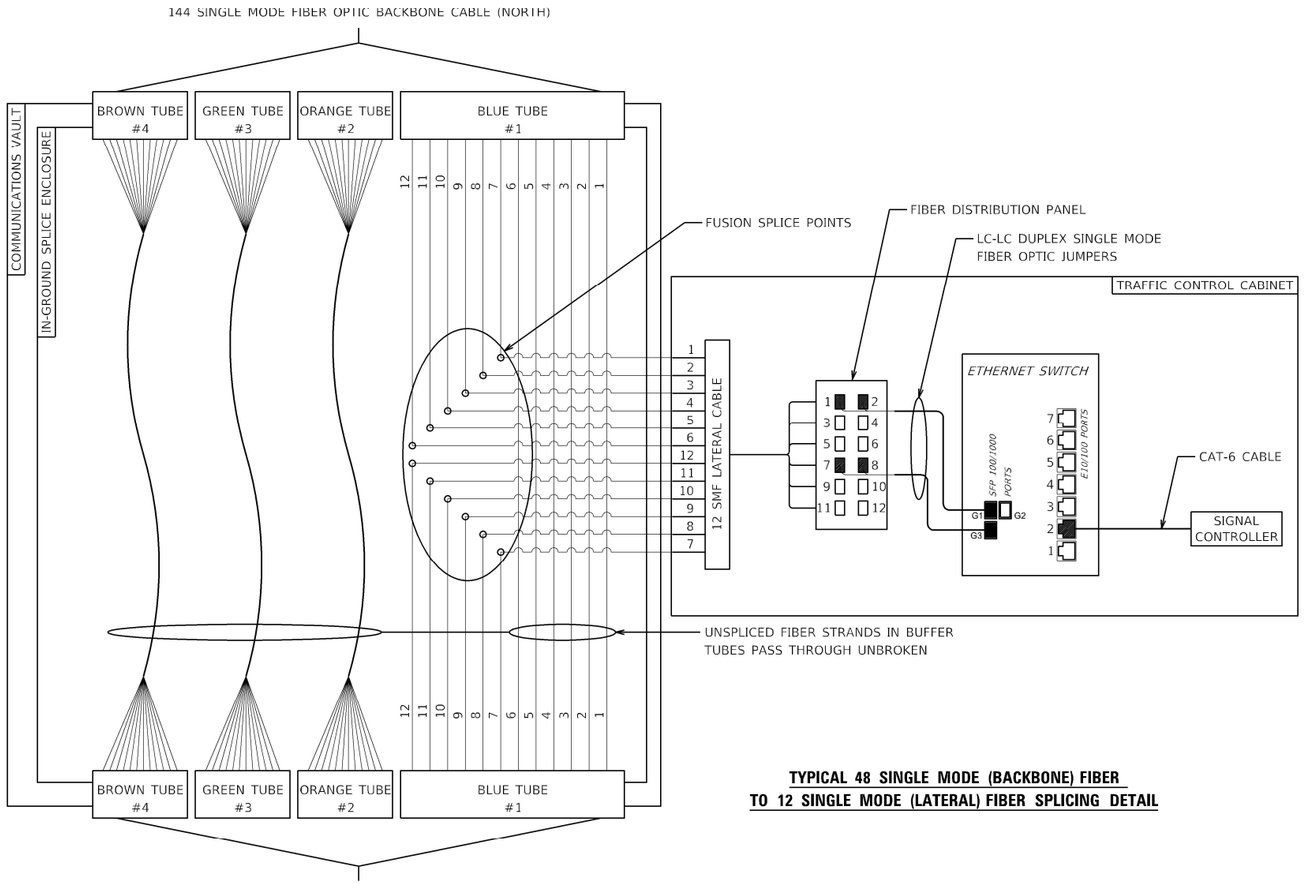
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		



TYPICAL 48 SINGLE MODE (BACKBONE) FIBER TO 12 SINGLE MODE (LATERAL) FIBER SPLICING DETAIL

IL 37 COMMUNICATIONS CABINET SOUTH PATCH PANEL	48 SMF	SPLICE TO	OLD RTE 13 (MAIN STREET) LATERAL FIBER		SPLICE TO	48 SMF
7	7	-	1	7	-	7
8	8	-	2	8	-	8
9	9	-	3	9	-	9
10	10	-	4	10	-	10
11	11	-	5	11	-	11
12	12	-	6	12	-	12

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	DRAWN - DLB	REVISED -
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PLOT DATE = 12/29/2021	DATE - 12/29/2021	REVISED -

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DEPARTMENT OF TRANSPORTATION

TYPICAL 48 SINGLE MODE (BACKBONE) FIBER TO 12 SIGNAL MODE (LATERAL) FIBER SPLICING DETAIL

SCALE: N.T.S. | SHEET OF SHEETS | STA. N.A. | TO STA. N.A.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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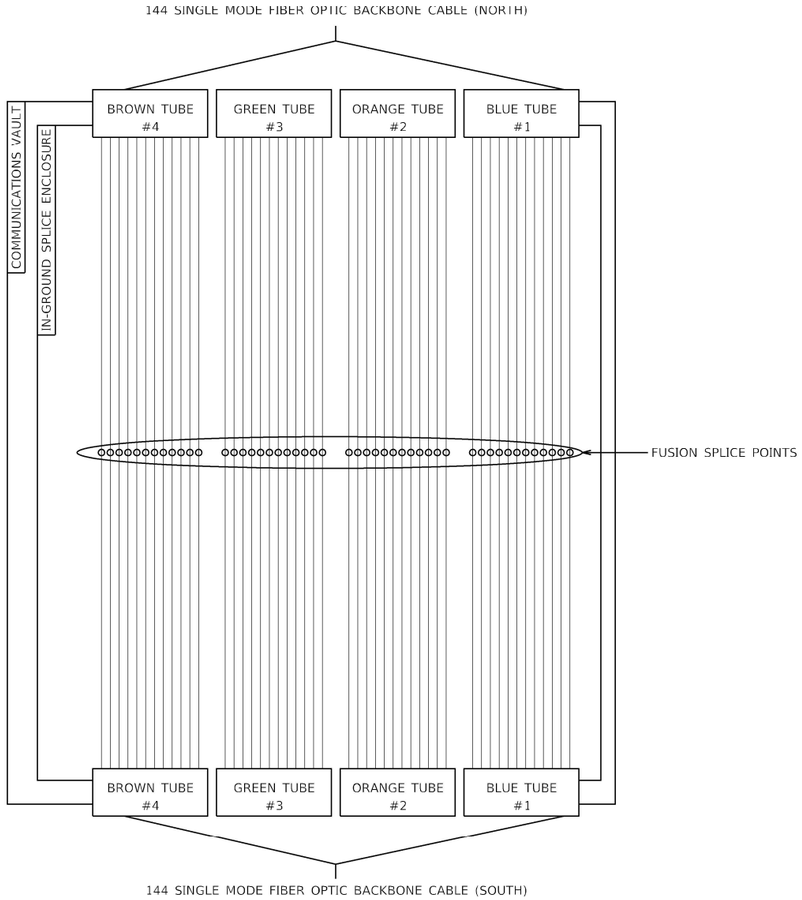
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		



TYPICAL 48 SINGLE MODE (BACKBONE) FIBER TO 48 SINGLE MODE (BACKBONE) FIBER SPLICING DETAIL

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PLOT DATE = 12/29/2021	DATE - 12/29/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED MAINLINE SPLICE DETAIL

SCALE: N.T.S. | SHEET OF SHEETS | STA. N.A. | TO STA. N.A.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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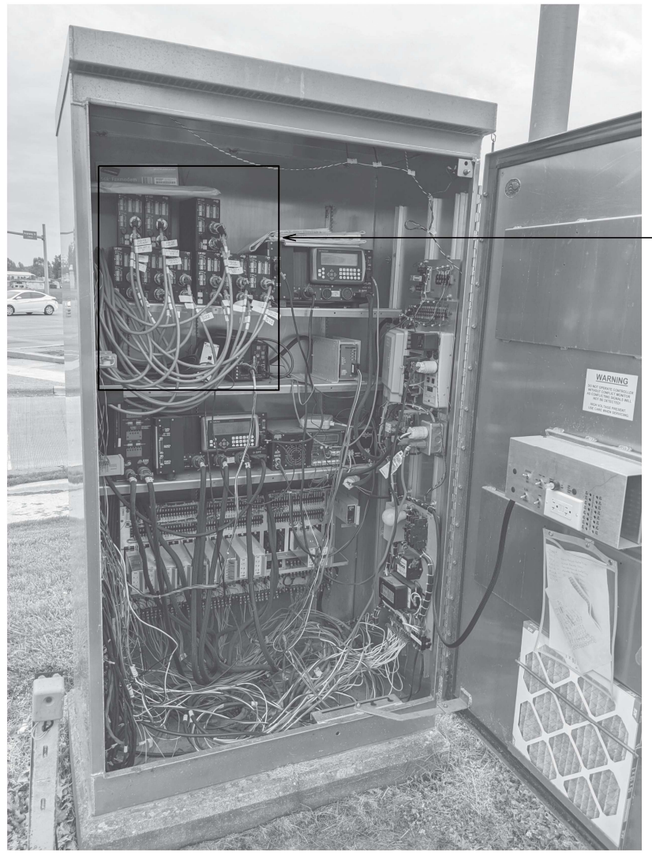
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		



EXISTING IL 37 TRAFFIC SIGNAL CABINET LAYOUT

LEGEND

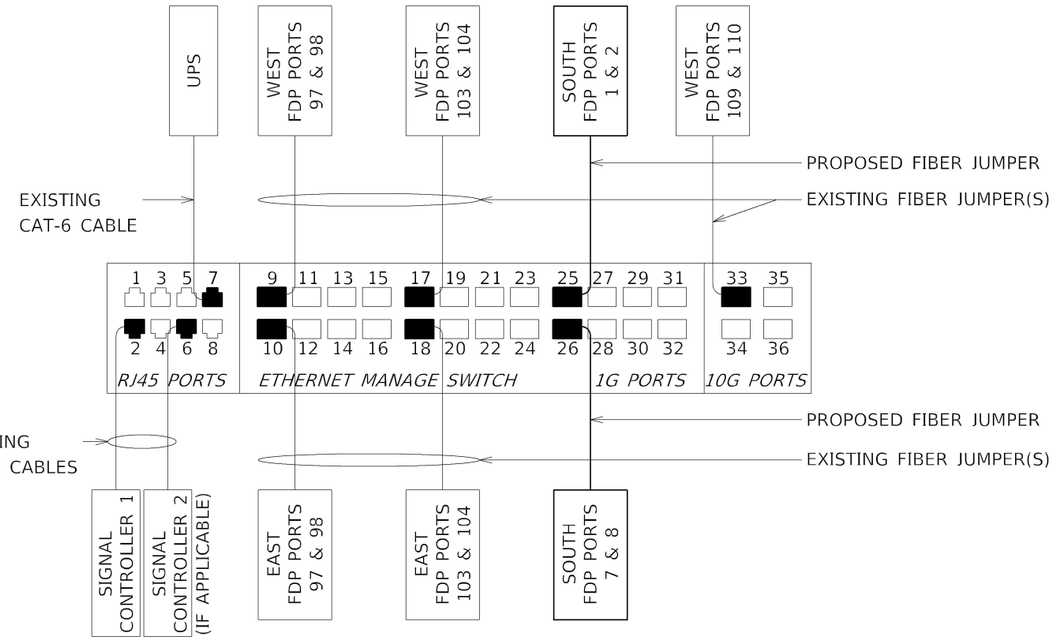
(A) INSTALL ONE (1) FIBER OPTIC PATCH PANEL, 48 PORT

(B) EXISTING ETHERNET MANAGE SWITCH

NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CABINET LAYOUT.
2. THE CONTRACTOR SHALL MOUNT THE FIBER PATCH PANEL SECURELY ON THE SHELF AND LABEL IT TO SHOW GOING SOUTH.
3. THE CONTRACTOR SHALL INSTALL THE PROPOSED 1GB SFP TRANSCEIVER(S) IN THE SWITCH PER THE SCHEDULE IN THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. ALL FIBER OPTIC JUMPERS SHALL BE LC-LC DUPLEX SINGLE MODE FIBER OPTIC CABLE AS DETAILED IN THE SPECIAL PROVISIONS.
5. ALL FIBER OPTIC CABLE SLACK SHALL BE INSTALLED INSIDE THE FIBER OPTIC HANDHOLE. NO SLACK SHALL BE PERMITTED INSIDE THE TRAFFIC SIGNAL CABINET.

ETHERNET MANAGE SWITCH PORT ASSIGNMENTS



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PLOT DATE = 12/29/2021	DATE - 12/29/2021	REVISED -	

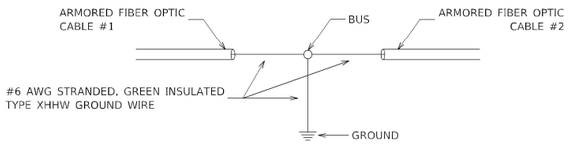
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING IL 37 TRAFFIC SIGNAL CABINET LAYOUT

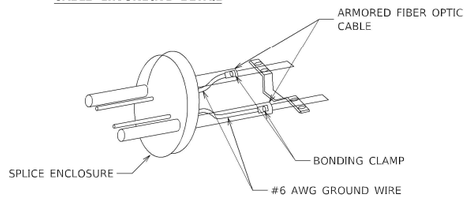
SCALE: N.T.S. | SHEET OF SHEETS | STA. N.A. | TO STA. N.A.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	35
		CONTRACT NO. 78916		
	ILLINOIS FED. AID PROJECT			

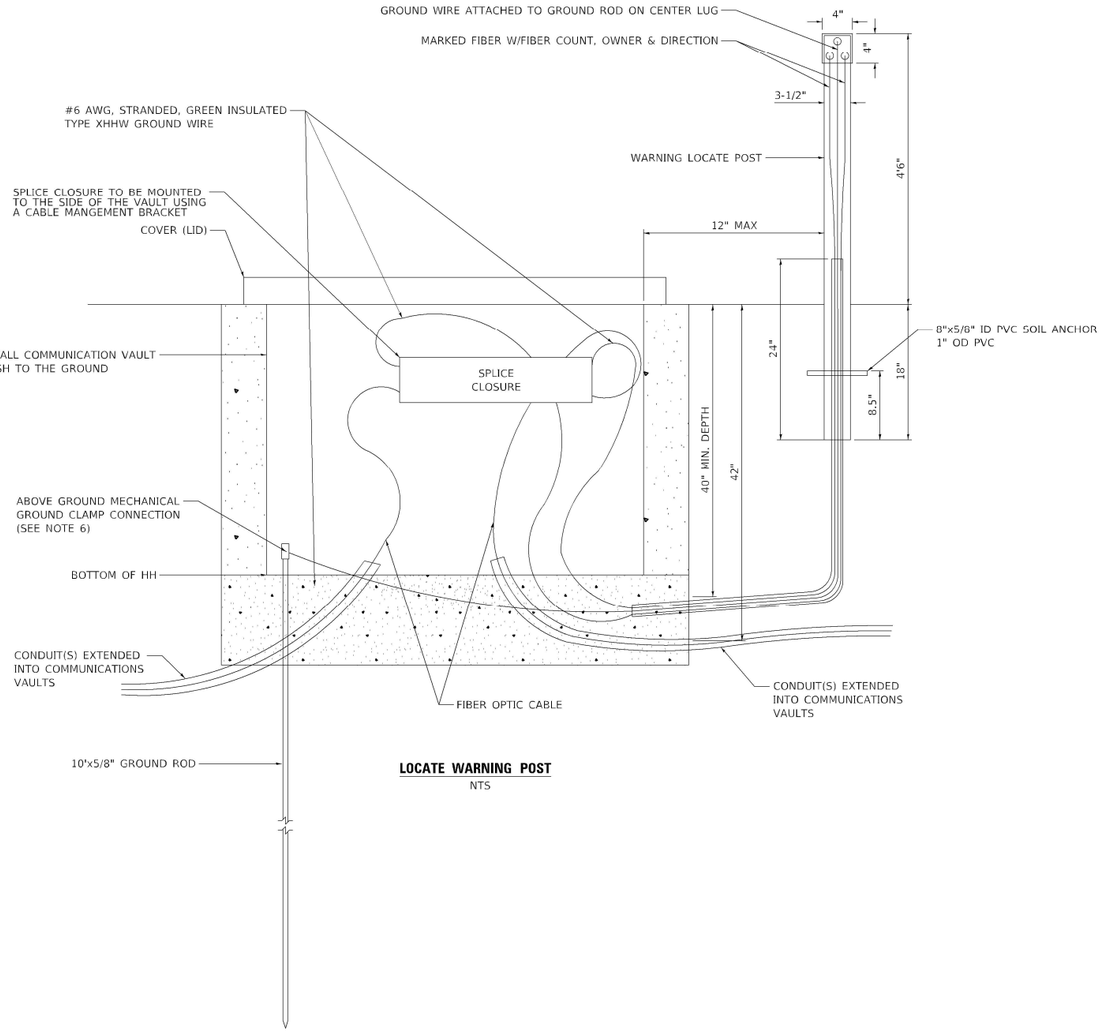
WIRING DETAIL



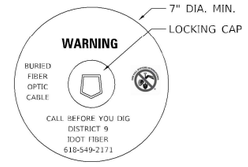
CABLE GROUNDING DETAIL



NOTE:
DAMAGE TO SOIL ANCHORS NOT INSTALLED WITH ARRPOVED DRIVER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR REPLACEMENT



LOCATE WARNING POST
NTS



COVER DETAIL
NTS

NOTES:

1. FOR ALL SPLICE AND COMMUNICATION VAULTS NUMER DECALS WILL BE APPLIED AFTER INSTALLATION IS COMPLETED AND AT THE DIRECTION OF THE ENGINEER.
2. COIL FIBER OPTIC CABLE SLACK IN COMMUNICATIONS VAULTS ENSURING THAT THE BEN RADIUS DOES NOT EXCEED THE MINIMUM BEND RADIUS OF THE FIBER.
3. 1-1/2" CONDUIT AND #6 AWG GROUND WIRE AND ASSOCIATED WORK ARE INCLUDED AS PART OF THE FIBER OPTIC UTILITY MARKER AND WILL NOT BE PAID FOR SEPARATELY.
4. GROUND WIRE SHALL BE BONDED TO THE ARMOR OF THE ARMORED FIBER OPTIC CABLE(S) IN THE SPLICE ENCLOSURE USING THE #6 AWG GROUND WIRE, AND EACH GROUND SHALL BE ISOLATED. WITHIN THE ENCLOSURE.
5. A WATERPROOF SIMPLEX FIBER OPTIC INNERDUCT SPLIT PLUG WITH BUSHING ASSEMBLY OF APPROPRIATE SIZE OR APPROVED EQUIVALENT SHALL BE INSTALLED AROUND THE FIBER OPTIC CABLE TO SEAL AROUND THE DUCT FOR THE CONDUIT(S) ENTERING ALL COMMUNICATION VAULTS, AND IS INCLUDED AS PART OF THE FIBER OPTIC CABLE(S) PAY ITEM AND WILL NOT BE PAID SEPARATELY.
6. ALL MATERIALS FOR MECHANICAL CONNECTION SHALL BE UL LISTED AND INSTALLED PER NEC ARTICLE 250. CADWELD UNDER PEA GRAVEL CONNECTIONS MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.

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PLOT DATE = 3/17/2022	DATE - 01/28/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC MARKER, SPLICE, AND GROUNDING DETAIL

SCALE: N.T.S. | SHEET OF SHEETS | STA. N.A. | TO STA. N.A.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	36
		CONTRACT NO. 78916		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 10/22/21

ROUTE IL 37 **DESCRIPTION** Mast Arm Foundation Investigation - Marion, IL **LOGGED BY** L. Estel

SECTION D9 Traffic Signal 2021-1 **LOCATION** IL 37/Boulevard St (SW Quad.), **SEC.** 13, **TWP.** 9S, **RNG.** 2E, **PM**

COUNTY Williamson **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lb (HE: 86.5%)

STRUCT. NO.
Station

BORING NO. 1-MA
Station 14+75
Offset 35.0ft Rt
Ground Surface Elev. 437.5 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Cored Sidewalk, 6 in. CONCRETE 437.00			
Stiff Grey, Moist CLAY	1		
	2 2	1.4 B	25
-5	2		
	2 4	1.5 B	21
430.50			
Stiff Brownish Grey, Moist SILTY CLAY	1		
	3 3	1.0 B	20
428.00			
-10 Stiff Brown and mottled Grey, Moist CLAY	1		
	3 3	2.0 B	24
425.50			
Stiff Brown, mottled Grey and Black, Moist CLAY	2		
	3 4	1.0 B	23
-15	1		
	3 3	1.1 S	23
-20			

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
-25	2		
Bottom of hole @ 16 ft			
No free water encountered			
To convert "N" values to "N60", multiplly by 1.44; Hammer efficiency = 86.5%			
Ground surface elevation referenced to FM012; Rod in canister at SW corner of IL 37 and Goodall St; EL. 437.51			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name S:\MATERIALS GEOTECHNICAL UNIT\GINT\PROJECTS\PROJECTS FILE\WILLIAMSONPOINT LOCATION\RTE37&BOULEVARDSTMAST ARMS.GPJ Data Template D6TEMPLT.GDT Date Printed 12/20/21
Latitude 37 44 12.90 Longitude -88 55 57.75 Datum NAD83 Job Number D-99-009-22

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 10/25/21

ROUTE IL 37 **DESCRIPTION** Mast Arm Foundation Investigation - Marion, IL **LOGGED BY** L. Estel

SECTION D9 Traffic Signal 2021-1 **LOCATION** IL 37/Boulevard St (NE Quad.), **SEC.** 13, **TWP.** 9S, **RNG.** 2E, **PM**

COUNTY Williamson **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lb (HE: 86.5%)

STRUCT. NO.
Station

BORING NO. 2-MA
Station 13+87
Offset 13.0ft Lt
Ground Surface Elev. 437.2 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Cored Pavement, 2.5 in. of HMA over 8.5 in. of CONCRETE 436.28			
Stiff Tannish Brown, Moist CLAY	1		
	2 3	1.6 B	21
432.70			
-5 V. Stiff Tannish Brown, Moist CLAY	2		
	2 3	2.2 B	21
430.20			
Stiff Brown with specks of Black, Moist CLAY	2		
	3 5	1.6 B	26
-10	3		
	3 4	1.3 S	24
	2		
	2 3	1.6 B	19
422.70			
-15 V. Stiff Brown with specks of Black, Moist CLAY	3		
	5 7	2.0	16
-20			

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
-25			
Bottom of hole @ 16 ft			
No free water encountered			
To convert "N" values to "N60", multiplly by 1.44; Hammer efficiency = 86.5%			
Ground surface elevation referenced to FM012; Rod in canister at SW corner of IL 37 and Goodall St; EL. 437.51			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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Latitude 37 44 13.81 Longitude -88 55 57.18 Datum NAD83 Job Number D-99-009-22

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MODEL: $MODELNAME$
FILE NAME: $FILEL$

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	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE - 1/5/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
IL ROUTE 37 AND BOULEVARD STREET
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	37
		CONTRACT NO. 78916		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 10/23/21

ROUTE IL 37 **DESCRIPTION** Mast Arm Foundation Investigation - Marion, IL **LOGGED BY** L. Estel

SECTION D9 Traffic Signal 2021-1 **LOCATION** IL 37/Main St (SW Quad.), **SEC.** 13, **TWP.** 9S, **RNG.** 2E, **PM**

COUNTY Williamson **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lb (HE: 86.5%)

STRUCT. NO.
Station

BORING NO. 3-MA
Station 00+42
Offset 24.0ft Rt
Ground Surface Elev. 425.3 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 408.3 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
424.80			
Cored Sidewalk, 6 in. CONCRETE			
M. Dense Brown, Moist m. SAND	2		
	4		4
	8		
-5	3		
	5		4
	8		
418.30			
Stiff Grey, Moist SILTY CLAY	1		
	3	1.1	22
	3	B	
-10	1		
	2	1.1	17
	3	B	
413.30			
M. Stiff Grey, Moist SILTY CLAY LOAM	2		
	2	0.8	19
	3	B	
410.80			
-15 M. Stiff Grey with mottled Brown and Tan, Moist SILTY CLAY	1		
	2	0.8	24
	3	B	
▽ 408.30			
M. Stiff Dark Greyish Brown, Moist CLAY	2		
	3	0.9	22
	4	B	
405.80			
-20 Stiff Brownish Grey, Moist CLAY	2		

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
	3	1.8	18
	4	S	
-25 Bottom of hole @ 21 ft			
To convert "N" values to "N60", multiply by 1.44; Hammer efficiency = 86.5%			
Ground surface elevation referenced to BM 1337; Cut Square on South Side of Signal Arm Foundation on the NE corner of IL 37 and Main St; EL. 424.88			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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Latitude 37 43 50.26 Longitude -88 55 57.84 Datum NAD83 Job Number D-99-009-22

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 10/25/21

ROUTE IL 37 **DESCRIPTION** Mast Arm Foundation Investigation - Marion, IL **LOGGED BY** L. Estel

SECTION D9 Traffic Signal 2021-1 **LOCATION** IL 37/Main St (NE Quad.), **SEC.** 13, **TWP.** 9S, **RNG.** 2E, **PM**

COUNTY Williamson **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lb (HE: 86.5%)

STRUCT. NO.
Station

BORING NO. 4-MA
Station 26+65
Offset 44.0ft Lt
Ground Surface Elev. 425.7 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 411.2 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
425.16			
Cored Sidewalk, 6.5 in. CONCRETE			
Concrete obstruction at 2.5 ft, augered through to next sample depth.			
421.20			
Soft dark Grey, Moist CLAY Note: soil had a strong odor	1		
-5	1	0.3	26
	2	B	
	1		
	1	0.5	27
	3	B	
416.20			
-10 M. Stiff dark Grey, Moist CLAY Note: soil had a strong odor	2		
	2	0.6	28
	3	B	
413.70			
M. Stiff Grey, Moist SILTY CLAY	1		
	2	0.7	27
	3	B	
▽ 411.20			
-15 Stiff Brown and Grey, Moist SILTY CLAY	2		
	2	1.2	25
	3	B	
408.70			
M. Stiff Brown and Grey, Moist SILTY CLAY	1		
	2	0.8	24
	3	B	
406.20			
-20 M. Stiff Brown and Grey, V. Moist	2		

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM	3	0.5	
	5	B	
-25 Bottom of hole @ 21 ft			
To convert "N" values to "N60", multiply by 1.44; Hammer efficiency = 86.5%			
Ground surface elevation referenced to BM 1337; Cut Square on South Side of Signal Arm Foundation on the NE corner of IL 37 and Main St; EL. 424.88			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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Latitude 37 43 51.27 Longitude -88 55 56.86 Datum NAD83 Job Number D-99-009-22

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MODEL: $MODELNAME$
FILE NAME: $FILEL$

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USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = $DATE$	DATE - 1/5/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
IL ROUTE 37 AND MAIN STREET
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	38
		CONTRACT NO. 78916		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 10/23/21

ROUTE IL 37 **DESCRIPTION** Mast Arm Foundation Investigation - Marion, IL **LOGGED BY** L. Estel

SECTION D9 Traffic Signal 2021-1 **LOCATION** IL 37/Hendrickson St (SW Quad.), **SEC.** 24, **TWP.** 9S, **RNG.** 2E, **PM**

COUNTY Williamson **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lb (HE: 86.5%)

STRUCT. NO.
Station

BORING NO. 5-MA
Station 31+00
Offset 27.0ft Rt
Ground Surface Elev. 426.42 ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
425.92			
Cored Driveway, 6 in. CONCRETE			
Concrete obstruction at 2.5 ft, augered through to next sample depth			
421.92			
-5 V. Stiff dark Grey, Moist CLAY	3 4 5	2.9 B	20
419.42			
V. Stiff dark Grey and Brown, Moist CLAY	3 5 5	3.1 B	21
416.92			
-10 Stiff Grey and Brown, Moist CLAY	3 3 5	1.9 S	24
414.42			
V. Stiff Grey and Brown, Moist CLAY	3 4 6	2.3 S	22
411.92			
-15 M. Stiff Grey, V. Moist CLAY LOAM	1 2 3	0.6 B	24
-20			

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
-25			
Bottom of hole @ 16 ft			
No free water encountered			
To convert "N" values to "N60", multiply by 1.44; Hammer efficiency = 86.5%			
Ground surface elevation referenced to BM 600; Cut Square on SE corner of Traffic Signal Foundation on the NW corner of IL 37 and Hendrickson St; EL. 426.08			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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Latitude 37 43 15.92 Longitude -88 55 57.60 Datum NAD83 Job Number D-99-009-22

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 10/25/21

ROUTE IL 37 **DESCRIPTION** Mast Arm Foundation Investigation - Marion, IL **LOGGED BY** L. Estel

SECTION D9 Traffic Signal 2021-1 **LOCATION** IL 37/W Boyton St (NE Quad.), **SEC.** 24, **TWP.** 9S, **RNG.** 2E, **PM**

COUNTY Williamson **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lb (HE: 86.5%)

STRUCT. NO.
Station

BORING NO. 6-MA
Station 30+35
Offset 27.0ft Lt
Ground Surface Elev. 425.29 ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
425.04			
Cored Sidewalk, 4 in. CONCRETE			
M. Stiff Brown, V. Moist CLAY			
	3		
	3 3	0.7 B	26
420.79			
-5 V. Stiff Brown, Moist CLAY	3 4 5	3.1 B	22
418.29			
V. Stiff Brown and Grey, Moist CLAY	2 4 6	2.1 S	25
-10	2 3 4	2.1 S	25
413.29			
Stiff Brown and Grey, Moist CLAY	1 3 4	1.6 B	28
410.79			
-15 V. Stiff Brown and Grey with specks of Black, Moist CLAY	1 3 4	2.2 B	22
-20			

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
-25			
Bottom of hole @ 16 feet			
No free water observed			
To convert "N" values to "N60", multiply by 1.44; Hammer efficiency = 86.5%			
Ground surface elevation referenced to BM 600; Cut Square on SE corner of Traffic Signal Foundation on the NW corner of IL 37 and Hendrickson St; EL. 426.08			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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Latitude 37 43 20.71 Longitude -88 55 57.11 Datum NAD83 Job Number D-99-009-22

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	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE - 1/5/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG
IL ROUTE 37 AND BOYTON STREET / HENDRICKSON STREET
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2887	D9 TRAFFIC SIGNAL 2021-3	WILLIAMSON	39	39
		CONTRACT NO. 78916		
		ILLINOIS	FED. AID PROJECT	