06-12-2026 LETTING ITEM 069

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	1
	ILLINOIS	CONTRACT NO. 66T14		

* LASALLE & BUREAU

INDEX OF SHEETS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

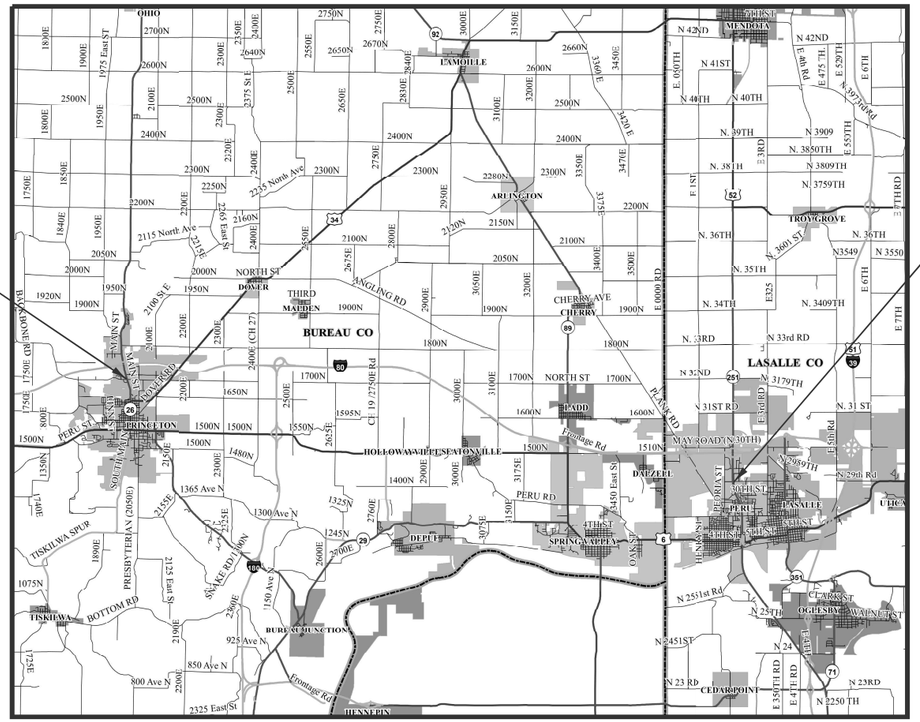
000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-11	TRAFFIC CONTROL DEVICES
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
814001-03	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP 46 (IL 251) & FAP 615 (IL 26)
SECTION (1,1Z) & (116)TS
PROJECT NHPP-STP-E408(644)
MAST ARM REPLACEMENT
LASALLE & BUREAU COUNTY

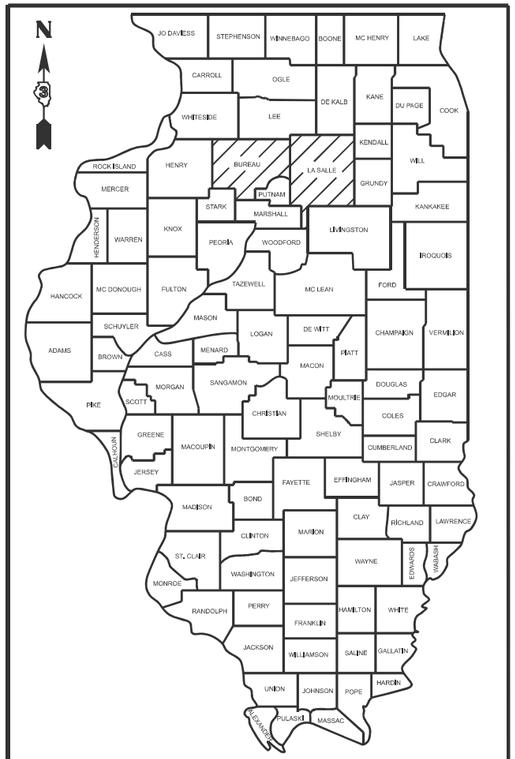
C-93-042-26



LOCATION MAP
(NOT TO SCALE)

GROSS & NET LENGTH = POINT LOCATION

D-93-019-26



LOCATION OF SECTION INDICATED THUS: -

INTERSECTION # 2
IL 26 & BACKBONE RD

INTERSECTION #1
IL 251 & WENZEL RD

BUREAU COUNTY IL 26	LASALLE COUNTY IL 251
FUNCTIONAL CLASSIFICATION	FUNCTIONAL CLASSIFICATION
OTHER PRINCIPAL ARTERIAL	MINOR ARTERIAL
2025 ADT=9500	2025 ADT=14100
PV=98.1% SU=1.4%	PV=95.2% SU=2.1%
MU=0.5%	MU=2.7%

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 27, 20 26
Trisha Thompson
REGIONAL ENGINEER

May 8 20 26
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 20 26
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: JOE KANNEL, P.E.
SQUAD LEADER: MOHAMED YOUSIF
DISTRICT 3 NO. (815) 434-6131
TOWNSHIP(S): PERU, PRINCETON
CONTRACT NO. 66T14

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 5/7/26

GENERAL NOTES

1. THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED AT 815-434-8506 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM. THE JULIE NUMBER IS 800-892-0123. THE MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
   - AMEREN ILLINOIS (NORTH)
   - STATUS NETWORK, INC.
   - ATT/DISTRIBUTION
   - COMCAST (XFINITY)
   - GENESCO TELEPHONE CO.
   - CITY OF PERU
   - FRONTIER (NORTH)
   - METRO COMM/CONXXUS
   - NICOR GAS
   - CITY OF PRINCETON

3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

4. ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE DEPARTMENT. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS, SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

5. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.

6. ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE

7. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.

8. A ¼" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED WITH THE COST OF CONDUIT PAY ITEM.

9. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. COST TO BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.

10. ALL CONDUIT IN TRENCH SHALL BE P.V.C. ALL PUSHED CONDUIT MAY BE P.V.C. OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.

11. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

12. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.

13. ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

14. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED, CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

15. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.

16. ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 OF THE STANDARD SPECIFICATIONS.

17. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.

18. THE MAST ARM FOUNDATIONS SHALL BE LOCATED A MINIMUM 6' FROM THE FACE OF CURB OR A MINIMUM 10' FROM THE EDGE OF PAVEMENT TO THE FACE OF FOUNDATION WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IN CURB AREA, GET MORE THAN 6' IF POSSIBLE IF THE SIGNAL HEAD STILL LINES UP IN CENTER OF LANE.

19 THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS HAVE BEEN LOCATED AT THE TIME OF SURVEY, OR BASED ON AVAILABLE EXISTING INFORMATION. NO GUARANTEE IS IMPLIED THAT ALL UTILITIES HAVE BEEN LOCATED OR DEPICTED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.

20 ALL EXISTING TRAFFIC SIGNAL EQUIPMENT DESIGNATED FOR REMOVAL ON THE PLANS SHALL BE COMPLETELY REMOVED AND HAULED AWAY FROM THE PROJECT SITE BY THE CONTRACTOR. ALL EQUIPMENT AND MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

COMMITMENTS:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ELECTRICAL UTILITY COMPANY TO OBTAIN PRIOR APPROVAL THAT ALL MINIMUM OVERHEAD ELECTRICAL UTILITY CLEARANCE REQUIREMENTS ARE MET DUE TO THE INSTALLATION OF THE NEW MAST ARM ASSEMBLIES. IF ANY SHIELDING OR PROTECTION OF THE EXISTING POWERLINES (TEMPORARY OR PERMANENT) OR ANY OTHER REQUIREMENTS ARE NEEDED AS REQUESTED BY THE UTILITY PROVIDER, THE CONTRACTOR SHALL SUPPLY ALL LABOR AND MATERIALS TO COMPLETE THIS REQUEST. THIS COST SHOULD BE INCLUDED IN THE APPLICABLE PAY ITEMS TO COMPLETE THIS WORK.

2. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE RESIDENT ENGINEER THAT THE MINIMUM OVERHEAD ELECTRICAL UTILITY CLEARANCE REQUIREMENTS ARE MET AND SATISFACTORY TO THE UTILITY PROVIDER FOR THE NEWLY CONSTRUCTED MAST ARM ASSEMBLIES.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES OF CONSTRUCTION:

INSPECTORS:

MODEL: Default
FILE NAME: c:\pw_work\pwidot\naiascop\d1151308\D3667174-sht-cover.dgn

USER NAME = Boudie,Shan	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 3/25/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	2
		CONTRACT NO. 66T14		
	ILLINOIS	FED. AID PROJECT		

* LASALLE & BUREAU

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE NHPP 80% FED / 20% STATE LASALLE COUNTY TRAFFIC SIGNALS 0021 URBAN	CONSTRUCTION CODE STBG 5K-<50K URBAN 80% FED / 20%STATE BUREAU COUNTY TRAFFIC SIGNALS 0021 URBAN
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	25	10	15
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	0.67	0.33
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.67	0.33
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.67	0.33
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3	1	2
	67100100	MOBILIZATION	L SUM	1	0.67	0.33
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.67	0.33
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.67	0.33
*	72000100	SIGN PANEL - TYPE 1	SQ FT	98	48	50
*	72000200	SIGN PANEL - TYPE 2	SQ FT	28	28	0
*	72400735	REMOVE AND RELOCATE SIGN PANEL - TYPE 1	SQ FT	5	0	5
	81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	197	130	67
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1462	816	646

*= SPECIALTY ITEM

USER NAME = Boudie.Shan	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/25/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116) TS	*	30	3
		CONTRACT NO. 66T14		
	ILLINOIS	FED. AID PROJECT		

* LASALLE & BUREAU

REV. 5/7/26 REV. 4/27/26

				CONSTRUCTION CODE	
				NHPP 80% FED / 20% STATE LASALLE COUNTY	STBG 5K-<50K URBAN 80% FED / 20%STATE BUREAU COUNTY
				TRAFFIC SIGNALS	TRAFFIC SIGNALS
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0021	0021
				URBAN	URBAN
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1040	394	646
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1393	732	661
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	2	0	2
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	2		2
87702955	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 45 FT.	EACH	2	2	
87703000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1	1	
87703020	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1	1	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	93	41	52
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21	21	
87900200	DRILL EXISTING HANDHOLE	EACH	8	4	4
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12	8	4
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4	2	2
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	6	2	4
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1131	611	520

USER NAME = Boudie.Shan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 3/25/2026	DATE -	REVISED -	

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116) TS	*	30	4
		CONTRACT NO. 66T14		
	ILLINOIS FED. AID PROJECT			

* LASALLE & BUREAU

REV. 5/7/26 REV. 4/10/26

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: NHPP 80% FED / 20% STATE LASALLE COUNTY TRAFFIC SIGNALS 0021 URBAN	CONSTRUCTION CODE: STBG 5K-<50K URBAN 80% FED / 20%STATE BUREAU COUNTY TRAFFIC SIGNALS 0021 URBAN
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8	4	4
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8	4	4
X0320023	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	2	1	1
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1	1	
X8809005	LED SIGNAL FACE, LENS COVER	EACH	86	44	42
X8820014	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC, SPECIAL	EACH	22	12	10
X8891202	WIDE AREA VIDEO VEHICLE DETECTION SYSTEM COMPLETE	EACH	2	1	1

SIGN SCHEDULE						
LOCATION		SIGN TEXT	SIZE	SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	* REM AND RELOCATE SIGN PANEL - TY 1
MAST ARM QUADRANT	DIRECTION OF TRAFFIC		IN	SQ FT	SQ FT	SQ FT
IL 251 & WENZEL RD						
NW	WESTBOUND	Illinois 251	60 X 18	8		
		LEFT TURN YIELD ON GREEN	30 X 36	8		
NE	NORTHBOUND	36TH ST Wenzel Road	66 X 30		14	
		LEFT ON GREEN ARROW ONLY	30 X 36	8		
SE	EASTBOUND	Illinois 251	60 X 18	8		
		LEFT TURN YIELD ON GREEN	30 X 36	8		
SW	SOUTHBOUND	36TH ST Wenzel Road	66 X 30		14	
		LEFT TURN ON GREEN ARROW ONLY	30 X 36	8		
SUBTOTAL				48	28	
IL 26 & BACKBONE RD						
NW	WESTBOUND	Illinois 26	60 X 18	8		
NE	NORTHBOUND	Backbone Rd	72 X 18	9		
		LEFT TURN YIELD ON GREEN	30 X 36	8		
		CHAMBER OF COMMERCE	24 X 30			5
SE	EASTBOUND	Illinois 26	60 X 18	8		
SW	SOUTHBOUND	Backbone Rd	72 X 18	9		
		LEFT TURN YIELD ON GREEN	30 X 36	8		
SUBTOTAL				50		5
TOTAL				98	28	5

*NOTE: SIGN PANELS TO BE RELOCATED TO THEIR ORIGINAL POSITIONS AFTER NEW MAST ARMS INSTALLED
**NOTE: ALL SIGNS TO BE TYPE AZ or ZZ SHEETING

MODEL: Default
FILE NAME: c:\pw_work\pwidot\nalascoc\d1151308\D366T14-sht-schedules.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/6/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	6
		CONTRACT NO. 66T14		
	ILLINOIS	FED. AID PROJECT		

* LASALLE & BUREAU

MAST ARM ASSEMBLY & FOUNDATION SCHEDULE

LOCATION					STEEL MAST ARM ASSEMBLY AND POLE 40 FT.	STEEL MAST ARM ASSEMBLY AND POLE 42 FT.	STEEL COMB MAST ARM ASSEMBLY AND POLE 45 FT.	STEEL COMB MAST ARM ASSEMBLY AND POLE 55 FT.	STEEL COMB MAST ARM ASSEMBLY AND POLE 58 FT.	REM EX CONC FDN	CONC FDN, TYPE E 36" DIA	CONC FDN, TYPE E 42" DIA	DRILL EX HANDHOLE
STA	STA STREET	QUAD	OFFSET	DIRECTION OF TRAFFIC	EA	EA	EA	EA	EA	EA	FOOT	FOOT	EACH
IL 251 & WENZEL RD													
5+10	WENZEL RD	NW	47' RT	WESTBOUND			1			1	13		1
92+60	IL 251	NE	74' LT	NORTHBOUND					1	1		21	1
2+85	WENZEL RD	SE	50' LT	EASTBOUND			1			1	13		1
94+30	IL 251	SW	62' RT	SOUTHBOUND				1		1	15		1
SUBTOTAL							2	1	1	4	41	21	4
IL 26 & BACKBONE RD													
49+15	BACKBONE	NW	55' LT	WESTBOUND		1				1	13		1
1690+05	IL 26	NE	42' RT	NORTHBOUND	1					1	13		1
50+95	BACKBONE	SE	40' RT	EASTBOUND		1				1	13		1
1691+00	IL 26	SW	44' LT	SOUTHBOUND	1					1	13		1
SUBTOTAL					2	2				4	52		4
TOTAL					2	2	2	1	1	8	93	21	8

*PROPOSED MAST ARM IS IN A DIFFERENT LOCATION THAT THE EXISTING MAST ARM. SEE DETAIL SHEETS.

MODEL: Default
FILE NAME: c:\pw_work\pwidot\nalascoc\d1151308\D3667174-sht-schedules.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/6/2026	DATE -	REVISED -	

SCHEDULE OF QUANTITES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	7
		CONTRACT NO. 66T14		
	ILLINOIS	FED. AID PROJECT		

* LASALLE & BUREAU

SEQUENCE OF OPERATIONS

1. INSTALL PROPOSED STEEL MAST ARM ASSEMBLY AND POLE ALONG WITH TRAFFIC SIGNAL POLES BEHIND EXISTING STEEL MAST ARMS AND TRAFFIC SIGNAL POLES AS SHOWN IN THE PLANS.

2. PROPOSED TRAFFIC SIGNAL HEADS WITH ALL ELECTRICAL CABLE ARE TO BE COVERED, WHILE KEEPING THE EXISTING TRAFFIC SIGNALS OPERATIONAL.

3. REMOVE THE STEEL MAST ARMS ONE BY ONE ALONG WITH THE ASSOCIATED EXISTING ELECTRIC CABLE, CONCURRENTLY MODIFYING THE EXISTING CONTROLLER AND CABINET. APPLY HIGHWAY STANDARD 701701-10 DURING THIS OPERATION. UTILIZE FLASHING RED MODE ON CONTROLLER WHEN POSSIBLE.

CONSTRUCTION NOTES:

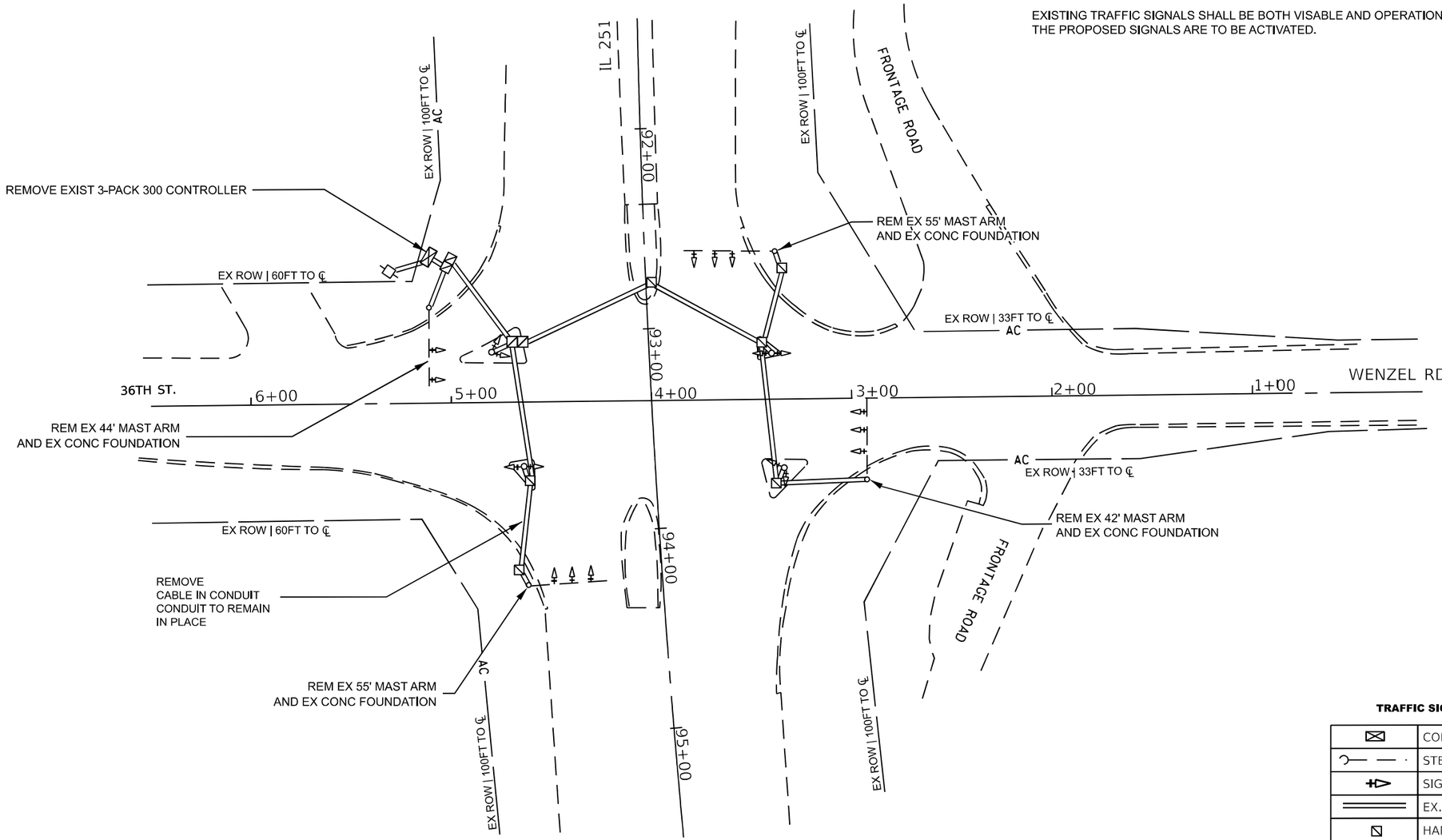
REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
- -MAST ARM ASSEMBLY FOR NORTHBOUND TRAFFIC (1 EACH)
- -MAST ARM ASSEMBLY FOR SOUTHBOUND TRAFFIC (1 EACH)
- -MAST ARM ASSEMBLY FOR EASTBOUND TRAFFIC (1 EACH)
- -MAST ARM ASSEMBLY FOR WESTBOUND TRAFFIC (1 EACH)

- -TRAFFIC SIGNAL HEAD FOR NORTHBOUND TRAFFIC (3 EACH)
- -TRAFFIC SIGNAL HEAD FOR SOUTHBOUND TRAFFIC (3 EACH)
- -TRAFFIC SIGNAL HEAD FOR EASTBOUND TRAFFIC (3 EACH)
- -TRAFFIC SIGNAL HEAD FOR WESTBOUND TRAFFIC (2 EACH)

EXISTING TRAFFIC SIGNALS SHALL BE BOTH VISABLE AND OPERATIONAL UNTIL THE PROPOSED SIGNALS ARE TO BE ACTIVATED.

N

0 30 60
SCALE IN FEET



TRAFFIC SIGNAL PLAN LEGEND

⊠	CONTROLLER
⌒ — — ·	STEEL MAST ARM
+▷	SIGNAL HEAD W/ BACKPLATE
═══	EX. UNDERGROUND CONDUIT
▧	HANDHOLE
▧▧	DOUBLE HANDHOLE
○	SIGNAL POST
○	PED PUSH BUTTON DETECTOR
⊟	POWER POLE SERVICE

MODEL: Default
FILE NAME: c:\pw_work\pwidot\naltascoch\d1151308\D366T14-sht-Traffic Signal Plan - Il 251.dgn

USER NAME = Boudie,Shan	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/24/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
IL 251 & WENZEL RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46,615	(1,1Z) & (116)TS	*	23	8
		CONTRACT NO. 66T14		
	ILLINOIS FED. AID PROJECT			

* LASALLE & BUREAU

SEQUENCE OF OPERATIONS

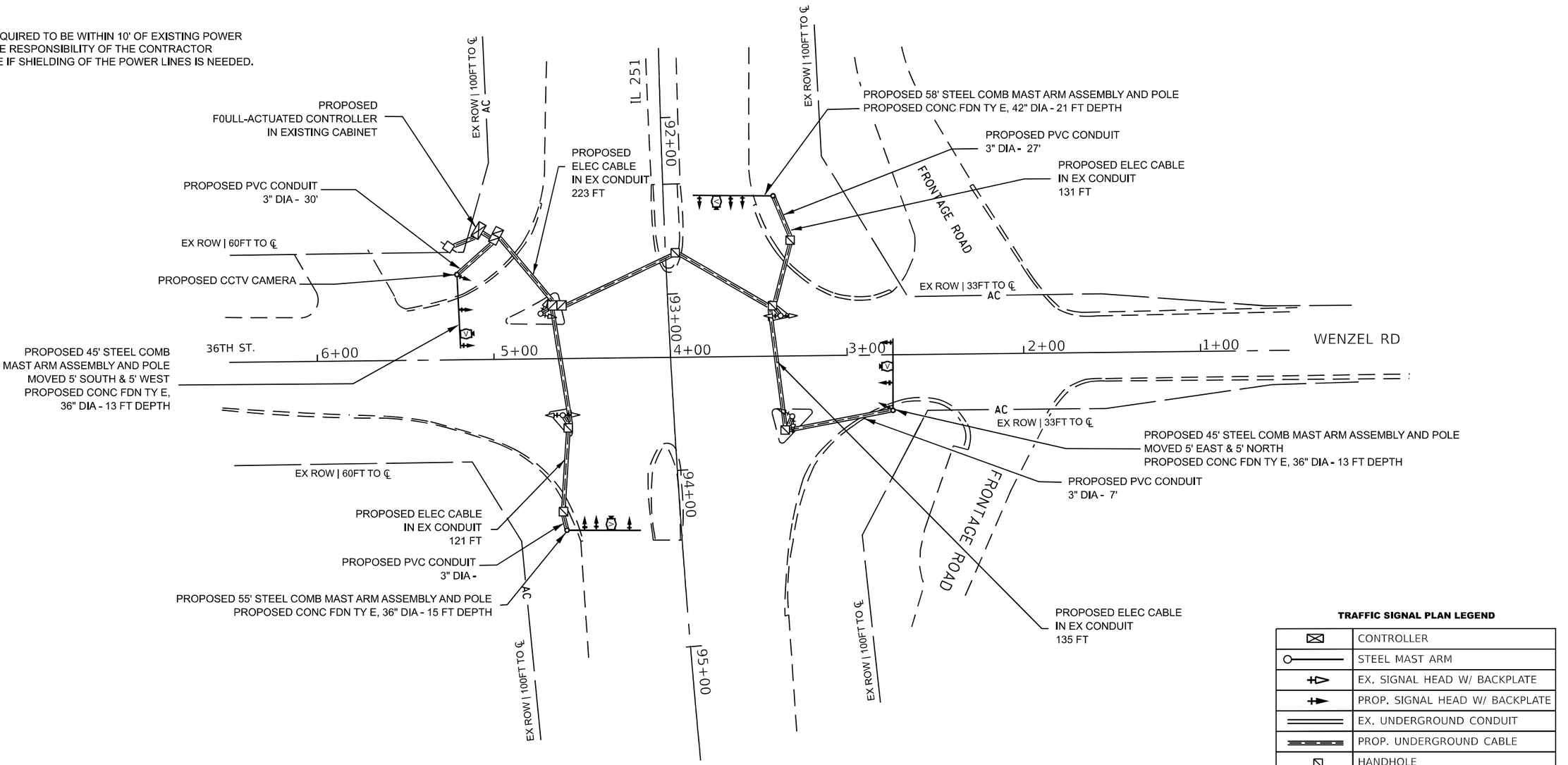
1. INSTALL PROPOSED STEEL MAST ARM ASSEMBLY AND POLE ALONG WITH TRAFFIC SIGNAL POLES BEHIND EXISTING STEEL MAST ARMS AND TRAFFIC SIGNAL POLES AS SHOWN IN THE PLANS.
2. PROPOSED TRAFFIC SIGNAL HEADS WITH ALL ELECTRICAL CABLE ARE TO BE COVERED, WHILE KEEPING THE EXISTING TRAFFIC SIGNALS OPERATIONAL.
3. REMOVE THE STEEL MAST ARMS ONE BY ONE ALONG WITH THE ASSOCIATED EXISTING ELECTRIC CABLE, CONCURRENTLY MODIFYING THE EXISTING CONTROLLER AND CABINET. APPLY HIGHWAY STANDARD 701701-10 DURING THIS OPERATION. UTILIZE FLASHING RED MODE ON CONTROLLER WHEN POSSIBLE.

NOTES:

IF WORK IS REQUIRED TO BE WITHIN 10' OF EXISTING POWER LINES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF SHIELDING OF THE POWER LINES IS NEEDED.

N

0 30 60
SCALE IN FEET



TRAFFIC SIGNAL PLAN LEGEND

⊠	CONTROLLER
○———	STEEL MAST ARM
+▷	EX. SIGNAL HEAD W/ BACKPLATE
+▶	PROP. SIGNAL HEAD W/ BACKPLATE
═══	EX. UNDERGROUND CONDUIT
═ ═ ═	PROP. UNDERGROUND CABLE
▧	HANDHOLE
▧▧	DOUBLE HANDHOLE
○	SIGNAL POST
○	PED PUSH BUTTON DETECTOR
⊣□	POWER POLE SERVICE

MODEL: Default
FILE NAME: c:\pw_work\pwidot\naltascoch\d1151308\D366T14-sht-Traffic Signal Plan - Il 251.dgn

USER NAME = Boudie,Shan	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/24/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL PLAN
IL 251 & WENZEL RD

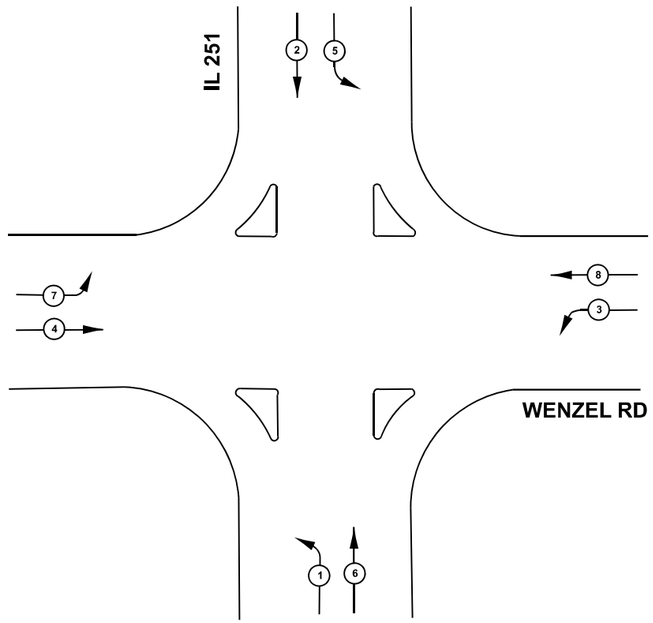
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46,615	(1,1Z) & (116)TS	*	23	9
		CONTRACT NO. 66T14		
	ILLINOIS FED. AID PROJECT			

* LASALLE & BUREAU

EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

NAME OF INTERSECTION: IL 251 & WENZEL RD



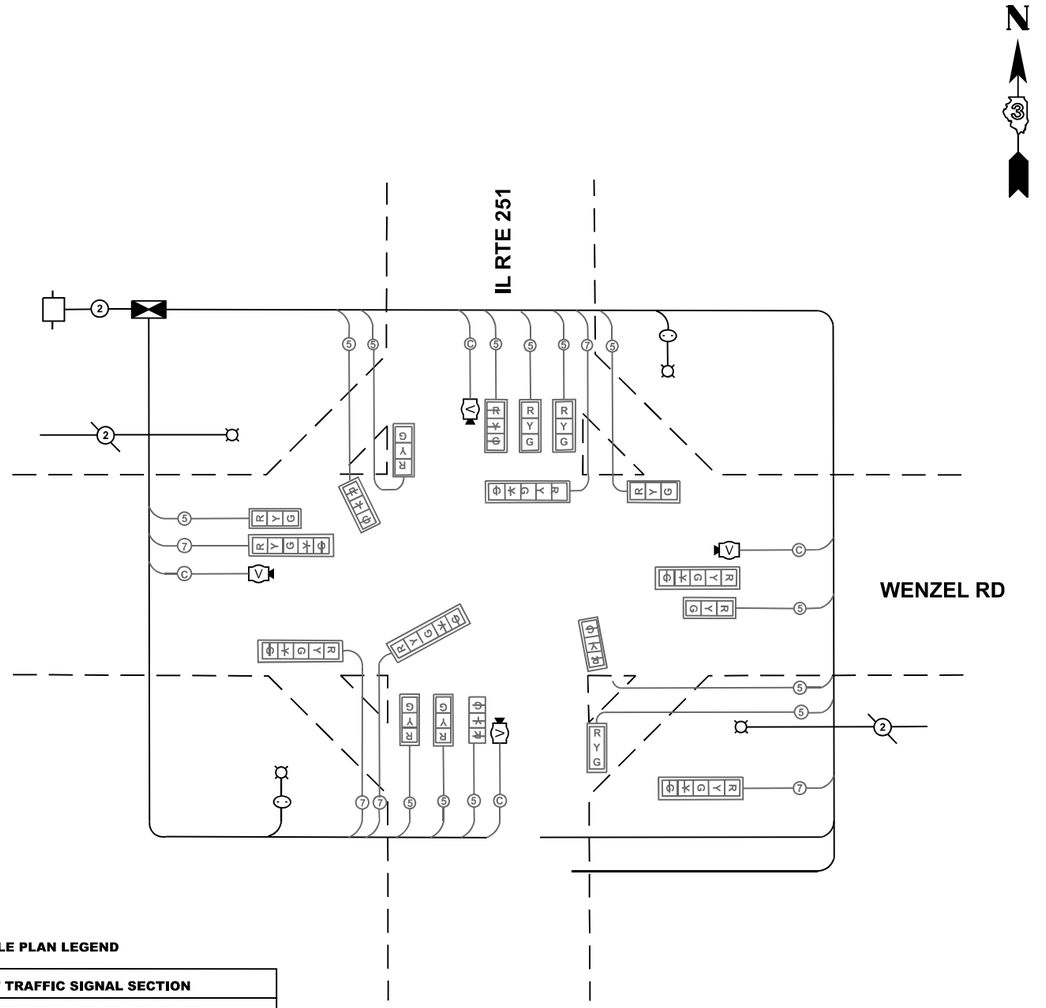
EXISTING PHASE DESIGNATION DIAGRAM

LEGEND

VEHICULAR MOVEMENT

NUMBER REFERS TO ASSOCIATED PHASE

NOT TO SCALE



CABLE PLAN LEGEND

G	8" TRAFFIC SIGNAL SECTION
R	12" TRAFFIC SIGNAL SECTION
W	12" PEDESTRIAN SIGNAL SECTION
	EX CONTROLLER CABINET
	VEHICLE DETECTOR, INDUCTION LOOP
	PUSHBUTTON DETECTOR
2	DENOTES NUMBER OF CONDUCTORS
2	INDICATES EX CABLE
"P" R Y G	SIGNAL FACE WITH BACKPLATE "P" INDICATES OPTICAL PROGRAMMING
	OPTICAL DETECTOR
	SERVICE INSTALLATION EXISTING
Y G	DUAL-INDICATION SIGNAL SECTION
	ELECTRICAL CABLE IN CONDUIT

PROPOSED CABLE PLAN

NOT TO SCALE

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 1/6/2026	DATE -	REVISED -	

IL 251 & WENZEL RD
DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	10
		CONTRACT NO. 66T14		
	ILLINOIS FED. AID PROJECT			

* LASALLE & BUREAU

SEQUENCE OF OPERATIONS

1. INSTALL PROPOSED STEEL MAST ARM ASSEMBLY AND POLE ALONG WITH TRAFFIC SIGNAL POLES BEHIND EXISTING STEEL MAST ARMS AND TRAFFIC SIGNAL POLES AS SHOWN IN THE PLANS.

2. PROPOSED TRAFFIC SIGNAL HEADS WITH ALL ELECTRICAL CABLE ARE TO BE COVERED, WHILE KEEPING THE EXISTING TRAFFIC SIGNALS OPERATIONAL.

3. REMOVE THE STEEL MAST ARMS ONE BY ONE ALONG WITH THE ASSOCIATED EXISTING ELECTRIC CABLE, CONCURRENTLY MODIFYING THE EXISTING CONTROLLER AND CABINET. APPLY HIGHWAY STANDARD 701701-10 DURING THIS OPERATION. UTILIZE FLASHING RED MODE ON CONTROLLER WHEN POSSIBLE.

CONSTRUCTION NOTES:

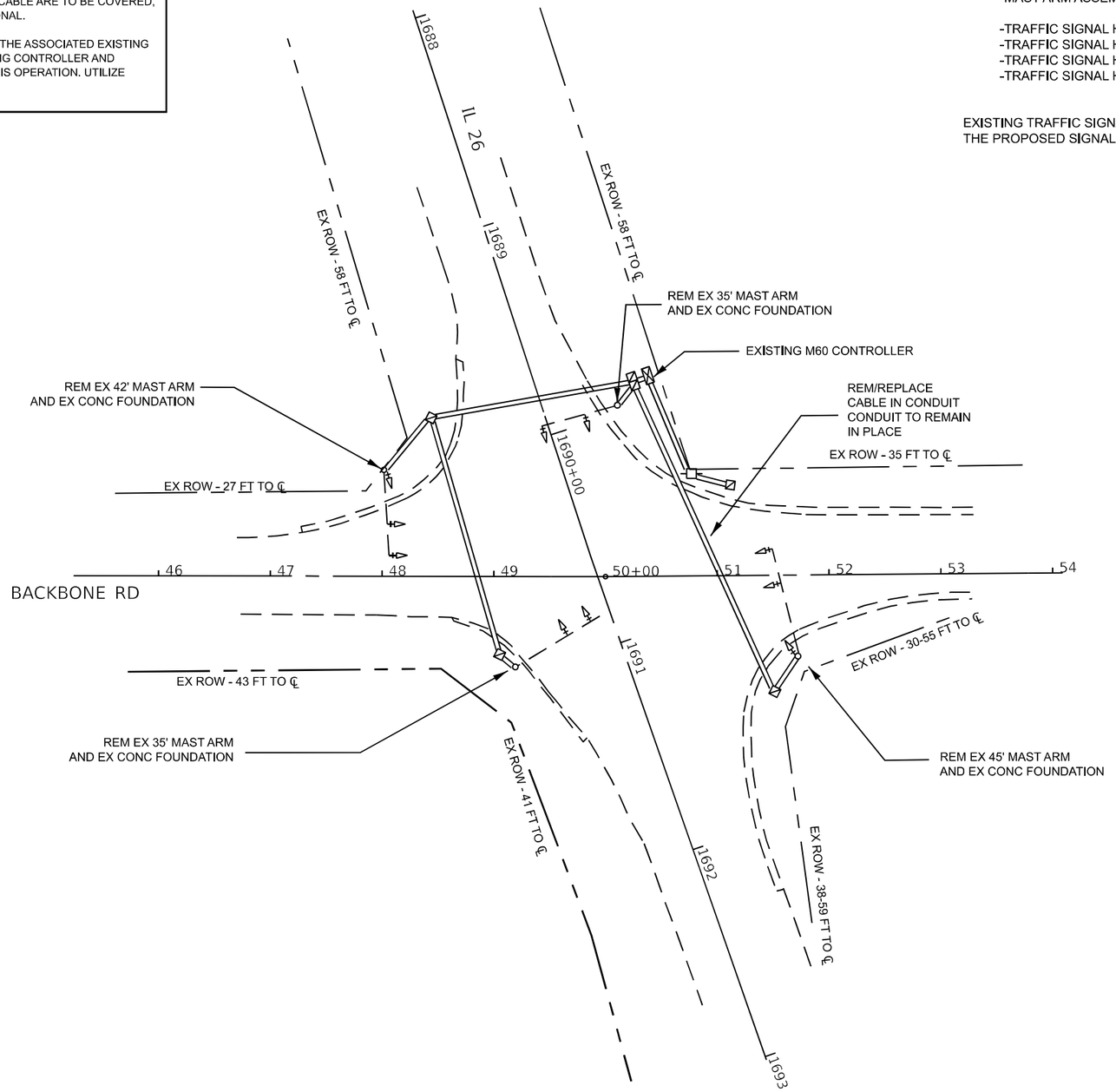
REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
- -MAST ARM ASSEMBLY FOR NORTHBOUND TRAFFIC (1 EACH)
- -MAST ARM ASSEMBLY FOR SOUTHBOUND TRAFFIC (1 EACH)
- -MAST ARM ASSEMBLY FOR EASTBOUND TRAFFIC (1 EACH)
- -MAST ARM ASSEMBLY FOR WESTBOUND TRAFFIC (1 EACH)

- -TRAFFIC SIGNAL HEAD FOR NORTHBOUND TRAFFIC (2 EACH)
- -TRAFFIC SIGNAL HEAD FOR SOUTHBOUND TRAFFIC (2 EACH)
- -TRAFFIC SIGNAL HEAD FOR EASTBOUND TRAFFIC (3 EACH)
- -TRAFFIC SIGNAL HEAD FOR WESTBOUND TRAFFIC (3 EACH)

EXISTING TRAFFIC SIGNALS SHALL BE BOTH VISABLE AND OPERATIONAL UNTIL THE PROPOSED SIGNALS ARE TO BE ACTIVATED.

N

0 30 60
SCALE IN FEET



TRAFFIC SIGNAL PLAN LEGEND

⊠	CONTROLLER
—— ·	STEEL MAST ARM
+▷	SIGNAL HEAD W/ BACKPLATE
═══	EX. UNDERGROUND CONDUIT
▧	HANDHOLE
▧▧	DOUBLE HANDHOLE
○	SIGNAL POST
⊂	PED PUSH BUTTON DETECTOR
⊣□	POWER POLE SERVICE

MODEL: Default
FILE NAME: c:\pw_work\pwidot\naltascood\d1151308\D366714-sht-Traffic Signal Plan - Backbone.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/1/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
IL 26 & BACKBONE RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46,615	(1,1Z) & (116)TS	*	23	11
		CONTRACT NO. 66T14		
	ILLINOIS FED. AID PROJECT			

* LASALLE & BUREAU

SEQUENCE OF OPERATIONS

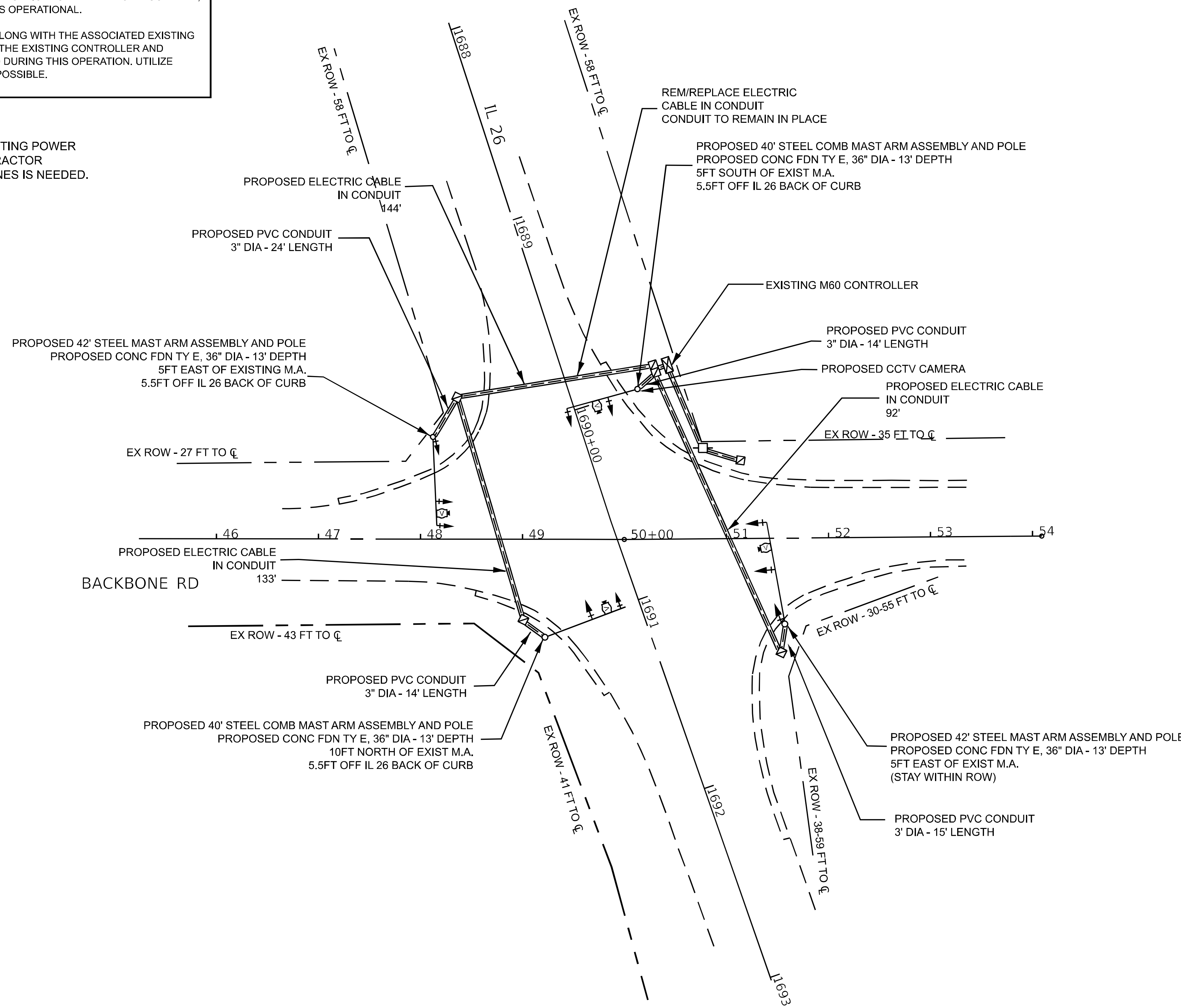
1. INSTALL PROPOSED STEEL MAST ARM ASSEMBLY AND POLE ALONG WITH TRAFFIC SIGNAL POLES BEHIND EXISTING STEEL MAST ARMS AND TRAFFIC SIGNAL POLES AS SHOWN IN THE PLANS.
2. PROPOSED TRAFFIC SIGNAL HEADS WITH ALL ELECTRICAL CABLE ARE TO BE COVERED, WHILE KEEPING THE EXISTING TRAFFIC SIGNALS OPERATIONAL.
3. REMOVE THE STEEL MAST ARMS ONE BY ONE ALONG WITH THE ASSOCIATED EXISTING ELECTRIC CABLE, CONCURRENTLY MODIFYING THE EXISTING CONTROLLER AND CABINET. APPLY HIGHWAY STANDARD 701701-10 DURING THIS OPERATION. UTILIZE FLASHING RED MODE ON CONTROLLER WHEN POSSIBLE.

NOTES:

IF WORK IS REQUIRED TO BE WITHIN 10' OF EXISTING POWER LINES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF SHIELDING OF THE POWER LINES IS NEEDED.

N

0 30 60
SCALE IN FEET



TRAFFIC SIGNAL PLAN LEGEND

	CONTROLLER
	STEEL MAST ARM
	EX. SIGNAL HEAD W/ BACKPLATE
	PROP. SIGNAL HEAD W/ BACKPLATE
	EX. UNDERGROUND CONDUIT
	PROP. UNDERGROUND CABLE
	HANDHOLE
	DOUBLE HANDHOLE
	SIGNAL POST
	PED PUSH BUTTON DETECTOR
	POWER POLE SERVICE

MODEL: Default
FILE NAME: c:\pw_work\pwidot\nalascoc\d1151308\D366T14-sht-Traffic Signal Plan - Backbone.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/1/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL PLAN
IL 26 & BACKBONE RD

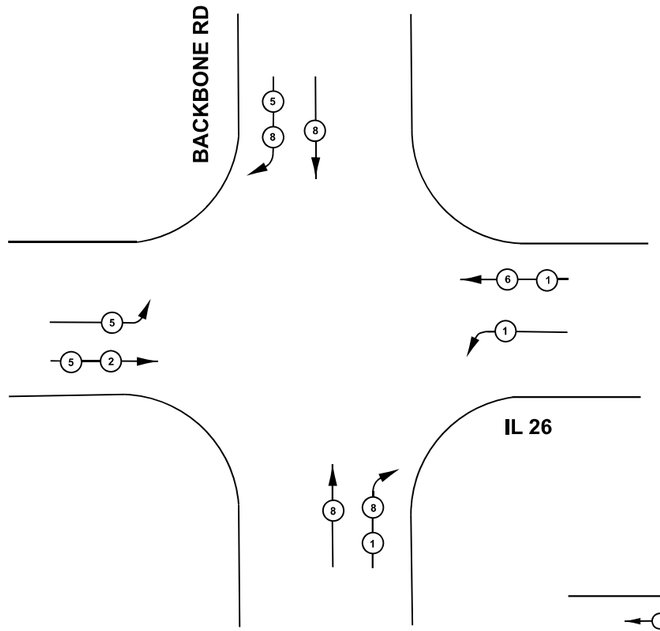
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46,615	(1,1Z) & (116)TS	*	23	12
		CONTRACT NO. 66T14		
	ILLINOIS	FED. AID PROJECT		

* LASALLE & BUREAU

EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

NAME OF INTERSECTION: IL 26 & BACKBONE RD



LEGEND

VEHICULAR MOVEMENT

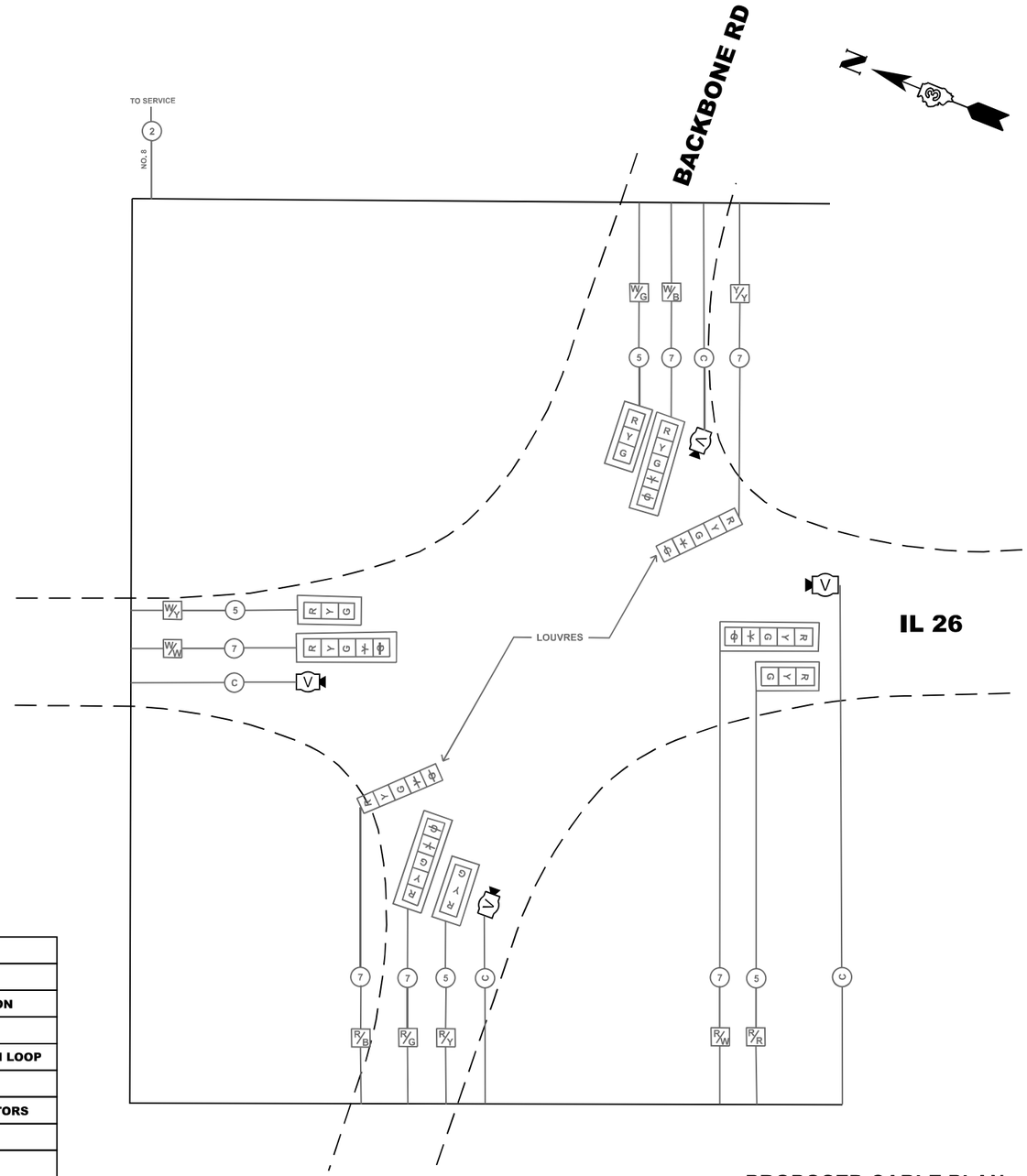
NUMBER REFERS TO ASSOCIATED PHASE

EXISTING PHASE DESIGNATION DIAGRAM

NOT TO SCALE

CABLE PLAN LEGEND

G	8" TRAFFIC SIGNAL SECTION
R	12" TRAFFIC SIGNAL SECTION
W	12" PEDESTRIAN SIGNAL SECTION
	EX CONTROLLER CABINET
	VEHICLE DETECTOR, INDUCTION LOOP
	PUSHBUTTON DETECTOR
2	DENOTES NUMBER OF CONDUCTORS
2	INDICATES EX CABLE
"P" R Y G ϕ G	SIGNAL FACE WITH BACKPLATE "P" INDICATES OPTICAL PROGRAMMING
	OPTICAL DETECTOR
	SERVICE INSTALLATION EXISTING
Y G	DUAL-INDICATION SIGNAL SECTION
	ELECTRICAL CABLE IN CONDUIT



PROPOSED CABLE PLAN
NOT TO SCALE

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 1/6/2026	DATE -	REVISED -	

IL 26 & BACKBONE RD DETAILS

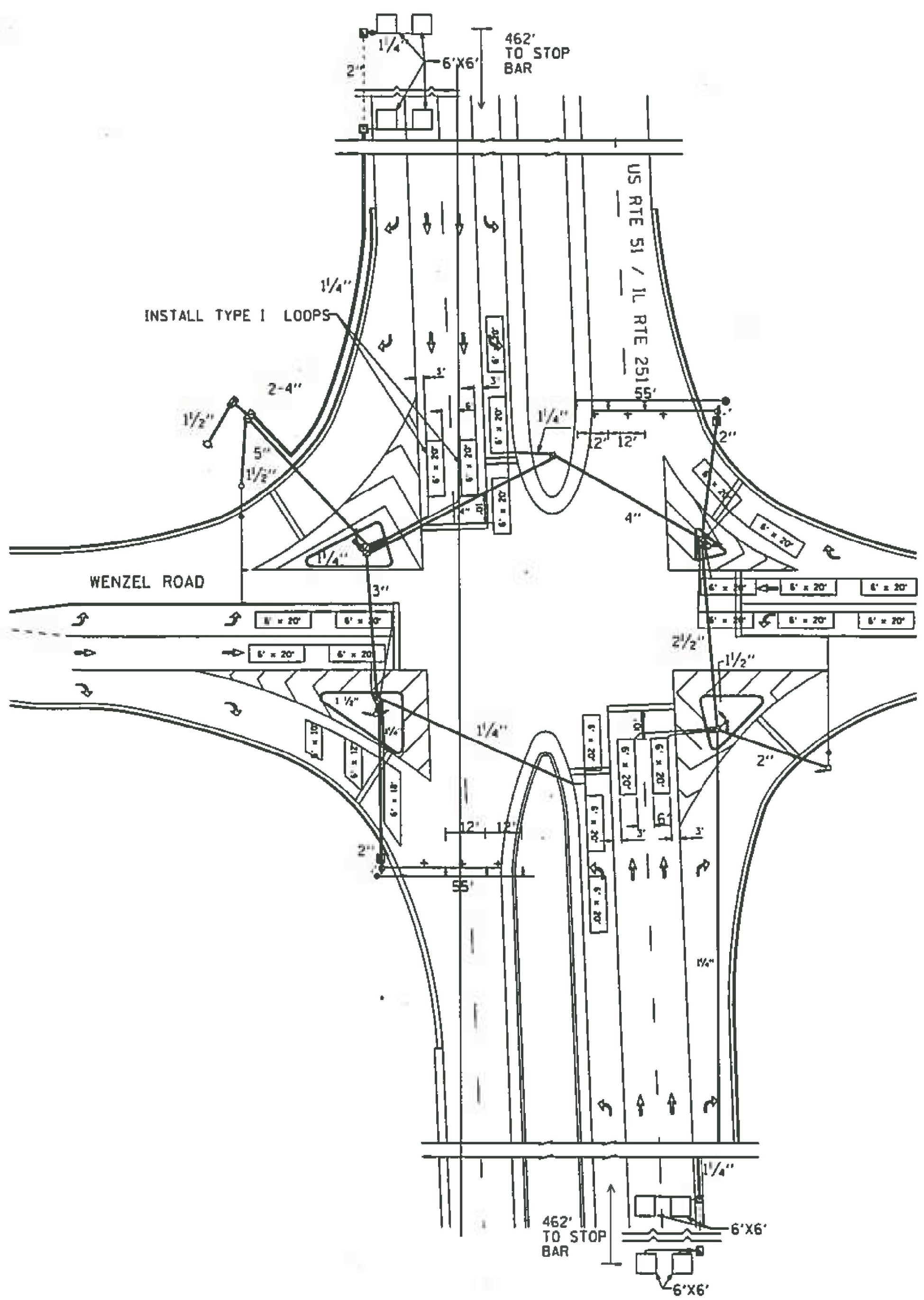
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	13

CONTRACT NO. 66T14

ILLINOIS | FED. AID PROJECT

* LASALLE & BUREAU

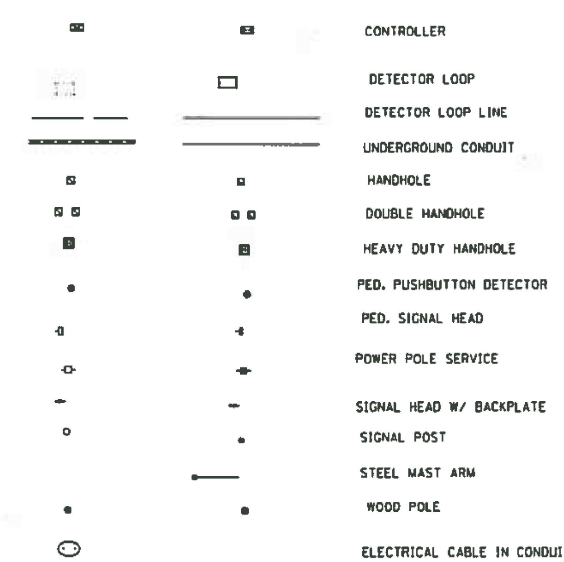


SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
DETECTOR LOOP, TYPE 1	FOOT	1738
LOOP DETECTOR TESTING	EACH	1

TRAFFIC SIGNAL GENERAL NOTES:
1. PLACE DETECTOR LOOPS IN BINDER
2. DETECTOR LOOPS SHALL HAVE FOUR TURNS
3. SAW CUT EXISTING DETECTOR LOOPS TO BE ABANDONED
4. THE DEPARTMENT OF TRANSPORATION (8125-434-8506) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE LAYOUT OF THE DETECTOR LOOPS

TRAFFIC SIGNAL PLAN LEGEND



FOR INFORMATION ONLY

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 251 & WENZEL ROAD TRAFFIC SIGNAL PLAN	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\duncanbd\d0296614\D36C07-sht-details.dgn	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -			46	(1,1Z)RS-4	LASALLE	54	42
	PLOT DATE = 6/14/2014	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 66C07				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

USER NAME = Boudie,Shan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TRAFFIC SIGNAL PLAN IL 251 & WENZEL RD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			46, 615	(1,1Z) & (116)TS	*	23	14
	CHECKED -	REVISED -			CONTRACT NO. 66T14				
PLOT DATE = 3/24/2026	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

* LASALLE & BUREAU

TABULATION OF QUANTITIES

TOTAL	UNIT	ITEM
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3 ...CTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, MAST ARM MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	STRAIGHT RAY LOUVRE, TYPE B FOR 12-INCH LENS
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT
1	EACH	FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE III, 5 PHASES, IN TYPE IV CABINET
6	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
1206	LIN FT	DETECTOR LOOP
244	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH 1¼"
221	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH 2½"
64	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH 3"
3	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH 3½"
41	LIN FT	GALVANIZED STEEL CONDUIT, PUSHED 2½"
27	LIN FT	GALVANIZED STESL CONDUIT, PUSHED 3"
6	LIN FT	ELECTRIC CABLE IN CONDUIT NO. 6 2/C
654	LIN FT	ELECTRIC CABLE IN CONDUIT NO. 14 5/C
924	LIN FT	ELECTRIC CABLE IN CONDUIT NO. 14 7/C
471	LIN FT	ELECTRIC CABLE IN CONDUIT NO. 18, 6 PAIR, TWISTED SHIELDED
1	EACH	SERVICE INSTALLATION, TYPE A (MODIFIED)
3.5	LIN FT	CONCRETE FOUNDATION, TYPE D
50	LIN FT	CONCRETE FOUNDATION, TYPE E 30 INCH
4	EACH	CONCRETE HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
532	LIN FT	TRENCH AND BACKFILL
* 1	EACH	SPARE MODULE AND SPARE LOAD SWITCH
43.5	SQ FT	SIGN PANEL TYPE 1

* NON-PARTICIPATING ITEM

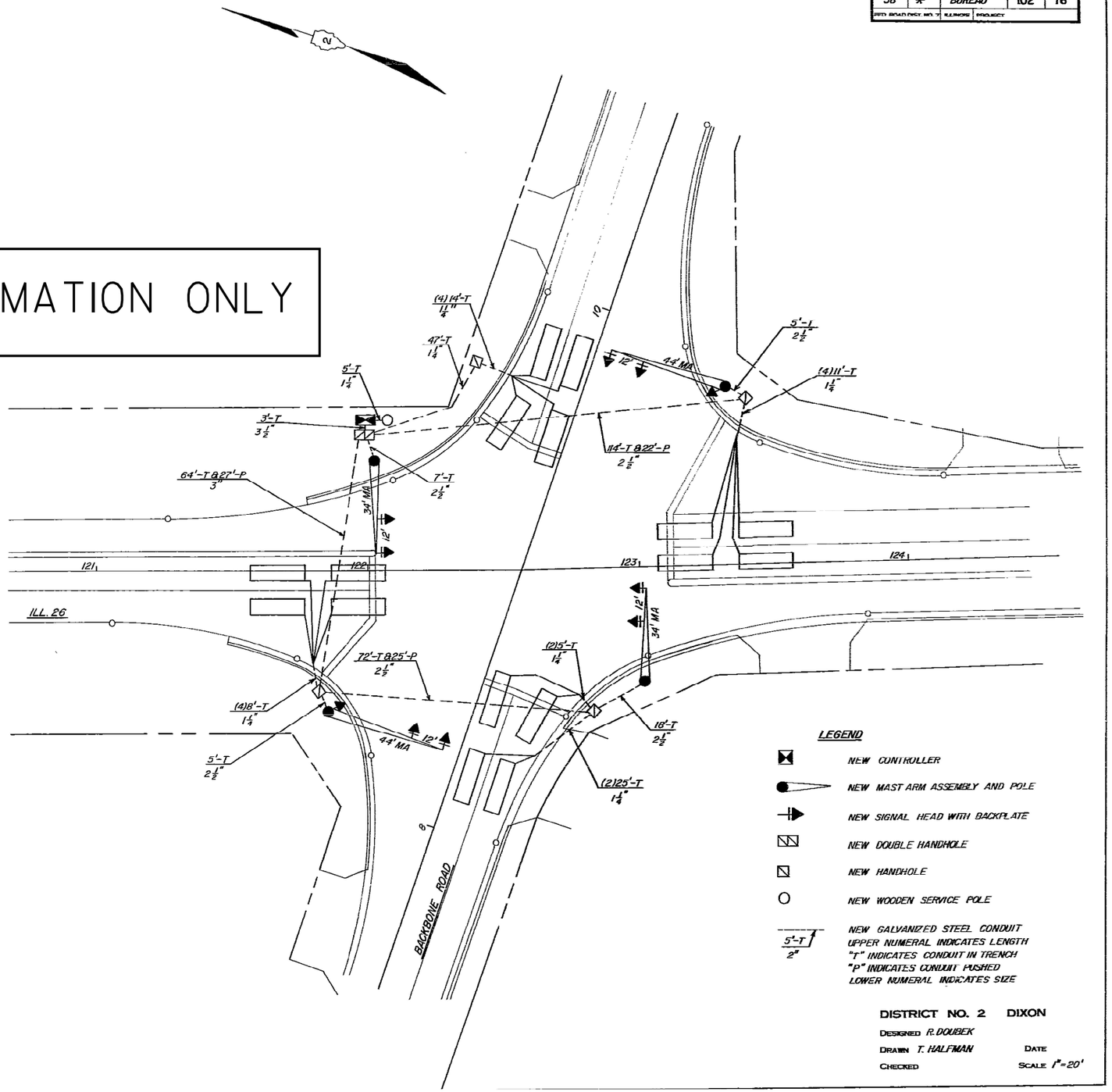
GENERAL NOTES

1. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ANY WORK IS STARTED.
2. THE EXACT LOCATION OF THE MAST ARM ASSEMBLIES AND THE DETECTOR LOOPS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DETECTOR LOOPS ARE 6'x20' WITH A SPACING OF 10 FEET BETWEEN LOOPS FOR EACH LANE.
3. ALL SIGNAL CABLE SHALL BE MARKED WITH ELECTRICAL TAPE FOR IDENTIFICATION PURPOSES AS SHOWN ON THE WIRING DIAGRAM. THIS IDENTIFICATION SHALL BE DONE BOTH IN THE BASE OF THE CONTROLLER CABINET AND IN THE SIGNAL HEAD.
4. EACH DETECTOR LOOP SHALL BE MARKED WITH WATERPROOF LABELS USING THE WIRING IDENTIFICATION SHOWN ON THE WIRING DIAGRAM. THIS IDENTIFICATION SHALL BE DONE AT TWO LOCATIONS. THE FIRST LOCATION IS IN THE SPLICE HANDHOLE ADJACENT TO THE DETECTOR LOOPS. THE IDENTIFICATION TAGS SHOULD BE PLACED ON THE DETECTOR LOOP CABLE END RATHER THAN THE PAIRED CABLE END OF THE SPLICE. THE SECOND LOCATION IS ON THE PAIRED CABLE IN THE BASE OF THE CONTROLLER CABINET ADJACENT TO THE TERMINAL FACILITY.
5. ALL NEW CONDUIT UNDER THE EXISTING PAVEMENT SHALL BE PUSHED. ALL CONDUIT UNDER THE PROPOSED PAVEMENT WIDENING SHALL BE TRENCHED IN PRIOR TO THE PLACEMENT OF THE WIDENING.
6. EACH DETECTOR LOOP SHALL HAVE AN INDIVIDUAL CONDUIT STUB.
7. THE DETECTOR LOOP CABLE FROM THE END OF THE SAW CUT IN THE PAVEMENT TO THE SPLICE IN THE HANDHOLE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE DETECTOR LOOP.

FOR INFORMATION ONLY

* (114,115,116) RS-4

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
38	*	BUREAU	102	76
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



LEGEND

- NEW CONTROLLER
- NEW MAST ARM ASSEMBLY AND POLE
- NEW SIGNAL HEAD WITH BACKPLATE
- NEW DOUBLE HANDHOLE
- NEW HANDHOLE
- NEW WOODEN SERVICE POLE
- 5'-T / 2" NEW GALVANIZED STEEL CONDUIT
  UPPER NUMERAL INDICATES LENGTH
  "T" INDICATES CONDUIT IN TRENCH
  "P" INDICATES CONDUIT PUSHED
  LOWER NUMERAL INDICATES SIZE

DISTRICT NO. 2 DIXON

DESIGNED R. DOUBEK

DRAWN T. HALFMAN DATE

CHECKED SCALE 1"=20'

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/1/2026	DATE -	REVISED -	

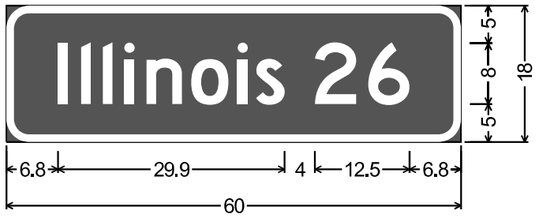
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC SIGNAL PLAN
IL 26 & BACKBONE RD

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,12) & (116)TS	*	23	15
		CONTRACT NO. 66T14		
	ILLINOIS	FED. AID PROJECT		

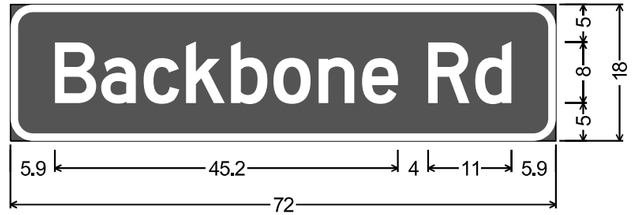
* LASALLE & BUREAU



3.0" Radius, 1.0" Border, White on Green;
"Illinois 26", D 2K;
Table of widths and spaces

6.8	I 1.3	1.7	I 1.3	1.6	I 1.3	1.6	i 1.3	1.6	n 4.7	1.2	o 4.9	1.3	i 1.2	1.2	s 3.7

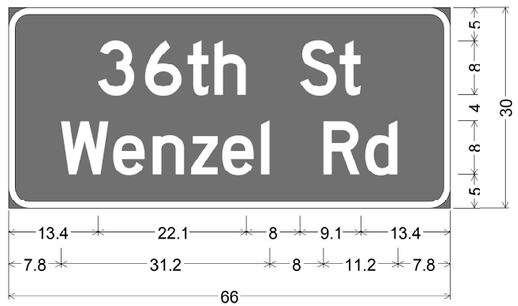
4.0	2 5.5	1.6	6 5.4	6.8	



3.0" Radius, 1.0" Border, White on Green;
"Backbone Rd", D 2K 85% spacing;
Table of widths and spaces

5.9	B 5.4	0.7	a 4.5	1.1	c 4.7	0.9	k 5.1	0.8	b 4.8	0.8	o 4.9	1.1	n 4.7	1.0	e 4.7		

4.0	R 5.5	0.7	d 4.8	5.9	

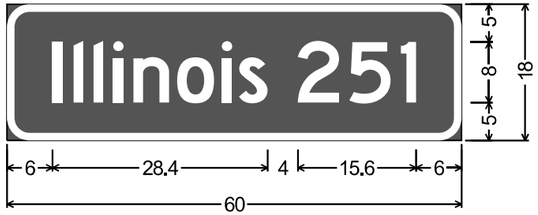


3.0" Radius, 1.0" Border, White on Green;
"36th St", D 2K; "Wenzel Rd", D 2K;
Table of widths and spaces

13.4	3 5.4	1.6	6 5.4	0.9	t 3.2	0.9	h 4.7	8.0	S 5.5	0.4	t 3.2	13.4	

7.8	W 7.2	0.7	e 4.7	1.1	n 4.7	1.0	z 4.0	0.7	e 4.7	1.2	l 1.2		

8.0	R 5.5	0.9	d 4.8	7.8	



3.0" Radius, 1.0" Border, White on Green;
"Illinois 251", D 2K 85% spacing;
Table of widths and spaces

6.0	I 1.3	1.5	I 1.3	1.3	I 1.3	1.4	i 1.2	1.4	n 4.7	1.0	o 4.9	1.1	i 1.3	0.9	s 3.8		

4.0	2 5.4	1.4	5 5.4	1.4	l 2.0	6.0	

MODEL: Default
FILE NAME: c:\pw_work\pwidot\nalasco\d1151308\D3667174-sht-sign details.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/5/2026	DATE -	REVISED -	

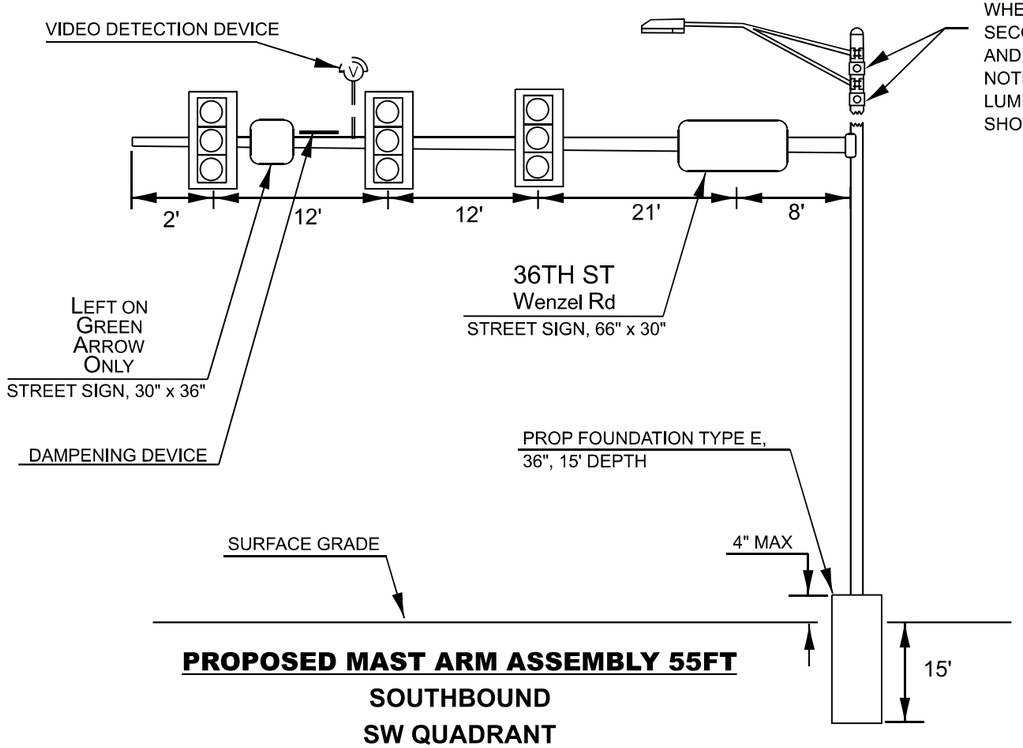
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

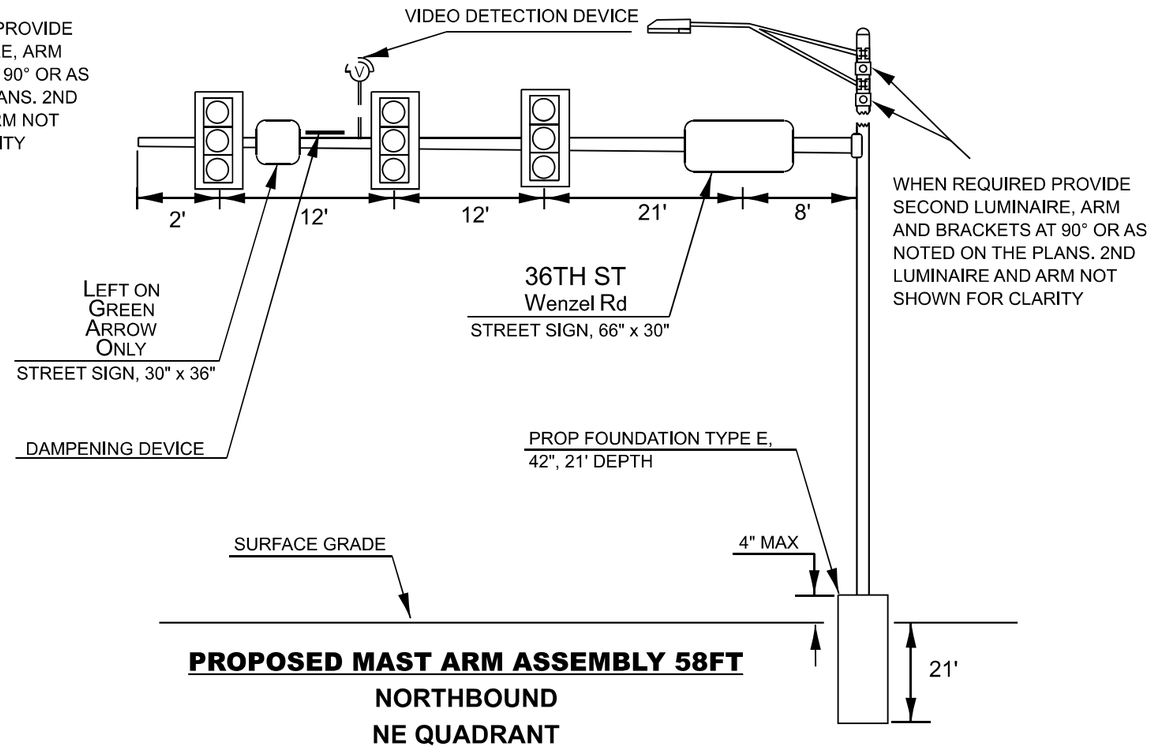
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	16
		CONTRACT NO. 66T14		
	ILLINOIS	FED. AID PROJECT		

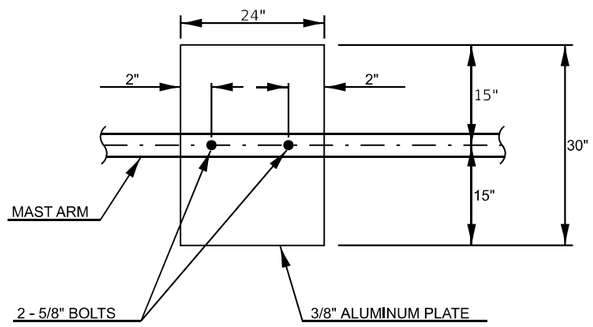
* LASALLE & BUREAU



PROPOSED MAST ARM ASSEMBLY 55FT
SOUTHBOUND
SW QUADRANT

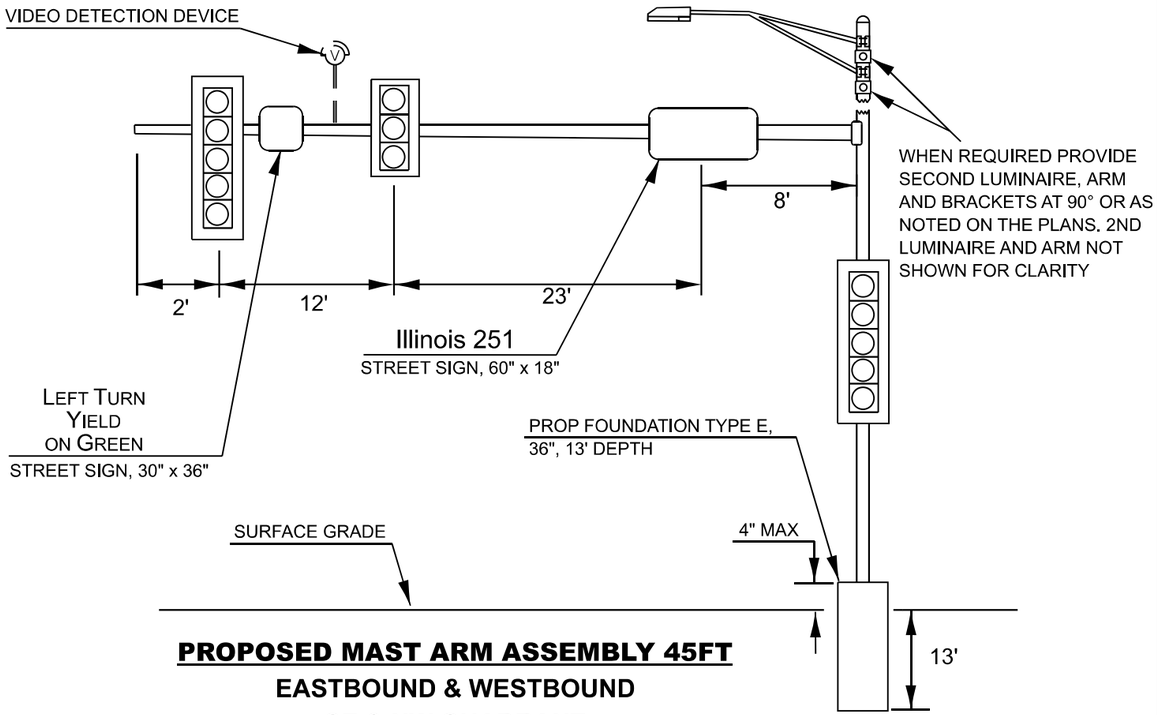


PROPOSED MAST ARM ASSEMBLY 58FT
NORTHBOUND
NE QUADRANT



DAMPENING PLATE DETAIL (NTS)
(TOP VIEW) INCIDENTAL TO MAST ARM QTY

NOTE: CAMERA LOCATION ON MAST ARMS TO BE DETERMINED BY EQUIPMENT MANUFACTURER.



PROPOSED MAST ARM ASSEMBLY 45FT
EASTBOUND & WESTBOUND
SE & NW QUADRANT

MODEL: Default
FILE NAME: c:\pw_work\pwidot\nalasco\d1151308\D366T14-sht-Mast Arm details.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/5/2026	DATE -	REVISED -	

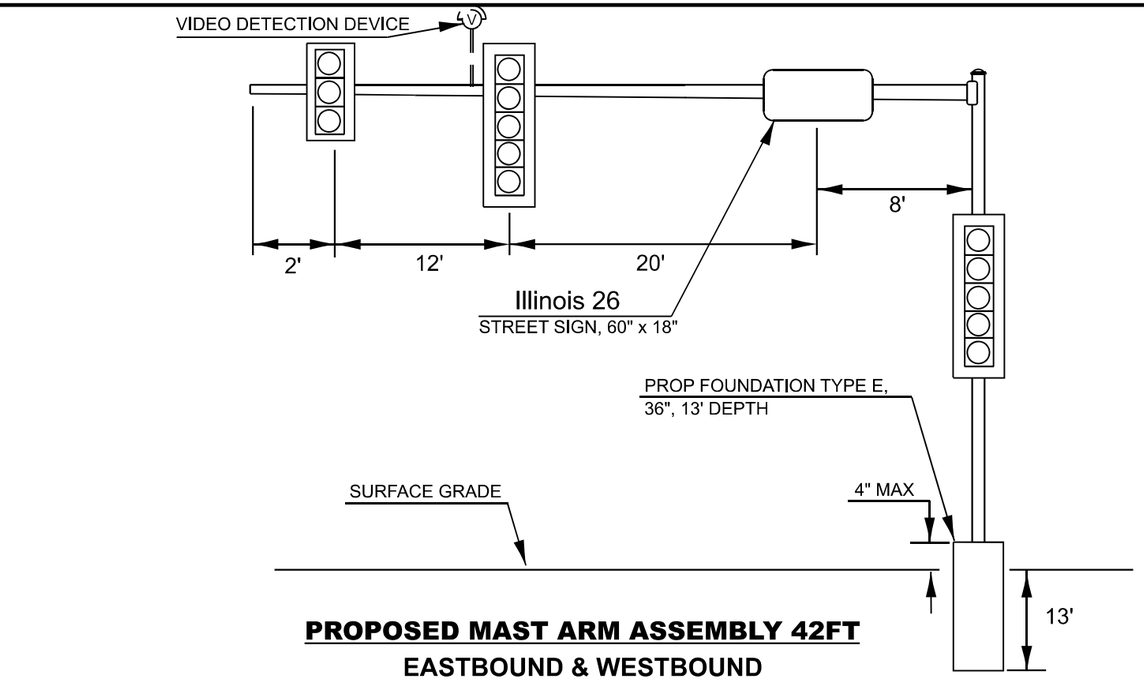
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251 & WENZEL RD
PROPOSED MAST ARM DESIGN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	17
		CONTRACT NO. 66T14		
	ILLINOIS	FED. AID PROJECT		

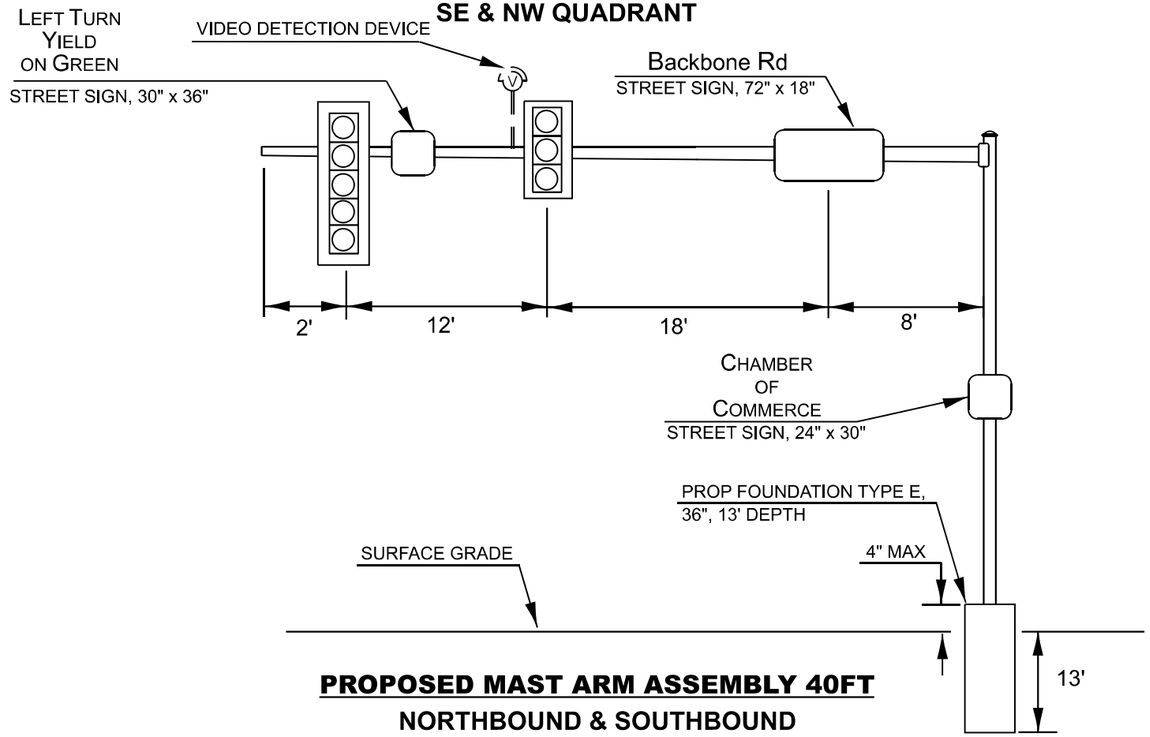
* LASALLE & BUREAU



PROPOSED MAST ARM ASSEMBLY 42FT

EASTBOUND & WESTBOUND

SE & NW QUADRANT



PROPOSED MAST ARM ASSEMBLY 40FT

NORTHBOUND & SOUTHBOUND

NE & SW QUADRANT

MODEL: Default
FILE NAME: c:\pw_work\pwdot\nallascod\d1151308\D386T14-sht-Mast Arm details.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/5/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 & BACKBONE RD
PROPOSED MAST ARM DESIGN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	18
		CONTRACT NO. 66T14		
	ILLINOIS FED. AID PROJECT			

* LASALLE & BUREAU

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date

ROUTE FAP 46(IL251) DESCRIPTION MAST ARM FOUNDATION AT IL 251 AND 36TH STREET IN PERU LOGGED BY B.S.

SECTION (1,1Z)RS-3,I LOCATION NW 1/4, SEC. 9, TWP. 33N, RNG. 1E, 3rd PM

COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO.
Station

BORING NO. 1 NE QUAD.
Station
Offset
Ground Surface Elev. ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft ▼
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
AUGER SAMPLE---Brown LOAM TILL				
		1		
Stiff Black & Red SILTYCLAY LOAM TILL		2	1.1	12.3
		2	B	
	-5			
		2		
Stiff Black CLAY		2	1.7	30.4
		4	B	
Stiff Gray SILTY CLAY with Limestone Pieces		2		
		5	1.0	22.4
		6	P	
Stiff Brown LOAM TILL	-10			
		1		
		3	2.2	15.2
		3	B	
Medium Brown LOAM TILL ▼				
		1		
		3	0.9	14.8
		12	B	
Hard Red LOAM TILL	-15			
		6		
		12	4.5	10.8
		15	P	
		6		
		5	8.5	10.3
		5	B	
Hard Gray LOAM TILL	20			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard Gray LOAM TILL *(continued)*		5		
		9	4.7	9.5
		10	B	
		15		
		26	4.5	7.1
		40	P	
End of Boring	-25			
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

MODEL: Default
FILE NAME: c:\pw_work\dot\nalascod\d1151308\D366T14-sht-details.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/6/2026	DATE -	REVISED -	

IL 251 & WENZEL RD
SOIL BORING LOG

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	19
		CONTRACT NO. 66T14		
	ILLINOIS FED. AID PROJECT			

* LASALLE & BUREAU

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date _____

ROUTE FAP 46(IL251) DESCRIPTION MAST ARM FOUNDATION AT IL251 AND 36TH STREET IN PERU LOGGED BY B.S.

SECTION (1,1Z)RS-3,I LOCATION NW /.4, SEC. 9, TWP. 33N, RNG. 1E, 3rd PM

COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. _____
Station _____

BORING NO. 2 SW QUAD.
Station _____
Offset _____
Ground Surface Elev. _____ ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft ▼
Upon Completion _____ ft ▽
After ____ Hrs. _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
AUGER SAMPLE---Pink to Dark Brown LOAM TILL				
		2		
Stiff Pink to Dark Brown LOAM TILL (FILL)		2 4	1.8 B	21.6
	-5	5		
		5 6	1.5 P	-
Stiff Gray to Tan SILTY CLAY		3		
		2 2	2.0 P	22.7
	▼-10	WOH		
	▽	WOH 1	- -	-
Hard Brown LOAM TILL		3		
		7 12	4.0 B	13.7
	-15	3		
		22 44	4.5 P	10.1
		1		
Very Stiff Gray-Brown LOAM TILL		5 6	2.9 B	17.6
Hard Gray LOAM TILL	-20			
Hard Gray LOAM TILL *(continued)*		8		
		25 21	4.5 P	11.8
		19		
		16 22	4.5 P	-
	-25	25		
		35 48	- -	-
End of Boring				
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

MODEL: Default
FILE NAME: c:\pw_work\pwidot\realsoog\d1151308\D3667T14-sht-details.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/6/2026	DATE -	REVISED -	

IL 251 & WENZEL RD SOIL BORING LOG

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	20
		CONTRACT NO. 66T14		
	ILLINOIS	FED. AID PROJECT		

* LASALLE & BUREAU

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 11/4/25

ROUTE FAP 46, FAP 615, ILL 26, ILL 251 DESCRIPTION Intersection of IL 26 and Backbone Rd in Princeton LOGGED BY Larry Myers

SECTION (1,1Z) & (116)TS LOCATION SW 1/4, **SEC.** 4, **TWP.** 16N, **RNG.** 9E, 4th **PM**, **Latitude** 41.39357, **Longitude** -89.46744

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. 1 (NW Quad.)
Station _____
Offset _____
Ground Surface Elev. 574.37 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Bituminous Parking Lot, Brown Sand and Gravel/Silty Clay Fill				
	571.87	3		
Soft Brown Gray Silty Clay Loess		3 3	0.5 P	30
	-5	2		
		3 4	1.0 P	26
	567.37			
Very Stiff Rust Red Sandy Loam Grading to Sand/Gravel		2		
		5 7	3.0 P	13
	565.37			
Hard Brown Silty Clay Loam Till	-10	4		
		6 8	4.2 S	14
	561.87			
Very Stiff Gray Silty Clay Loam Till		3		
		4 4	2.1 B	15
	559.87			
Very Stiff Purplish Gray Silty Clay Loam Till	-15	2		
		3 4	2.0 B	14
	557.87			
End of Boring				
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING IL 26 & BACKBONE RD IN PRINCETON SIGNALS.GPJ IL_DOT.GDT 11/21/25

MODEL: Default
FILE NAME: c:\pw_work\pwidot\nalasco\d1151308\D366T14-sht-details.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/5/2026	DATE -	REVISED -	

IL 26 & BACKBONE RD
SOIL BORING LOG

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	21
		CONTRACT NO. 66T14		
	ILLINOIS FED. AID PROJECT			

* LASALLE & BUREAU

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 11/4/25

ROUTE FAP 46, FAP 615, ILL 26, ILL 251 DESCRIPTION Intersection of IL 26 and Backbone Rd in Princeton LOGGED BY Larry Myers

SECTION (1,1Z) & (116)TS LOCATION NW 1/4, SEC. 9, TWP. 16N, RNG. 9E, 4th PM, Latitude 41.3932, Longitude -89.46721

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. 2 (SW Quad.)
Station _____
Offset _____
Ground Surface Elev. 574.16 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 559.2 ft ▼
Upon Completion 559.2 ft ▽
After ____ Hrs. _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Cored Concrete Parking Lot, Sand and Gravel, Black Silty Clay Loam Fill				
	571.66	2		
Medium Black Silty Clay Loam Fill (Petroleum Odor)		1 3	1.0 P	29
	-5	1		
		2 3	1.0 P	26
	567.16			
Loose Brown Loamy Sand and Gravel		2		
		2 2		16
	564.66			
Very Stiff Brown and Gray Silty Clay Loam Till	-10	3		
		4 4	3.4 S	16
		3		
		4 5	3.9 S	16
	559.16 ▼			
	-15	2		
Loose Brown Fine Sand to Fine Gravel - Free Water		3 1		23
	557.66			
End of Boring				
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING IL 26 & BACKBONE RD IN PRINCETON SIGNALS.GPJ IL_DOT.GDT 11/21/25

MODEL: Default
FILE NAME: c:\pw_work\pwidot\nalasco\d1151308\D366T14-sht-details.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/5/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 & BACKBONE RD
SOIL BORING LOG

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	22
		CONTRACT NO. 66T14		
	ILLINOIS FED. AID PROJECT			

* LASALLE & BUREAU

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 11/4/25

ROUTE FAP 46, FAP 615, ILL 26, ILL 251 DESCRIPTION Intersection of IL 26 and Backbone Rd in Princeton LOGGED BY Larry Myers

SECTION (1,1Z) & (116)TS LOCATION SW 1/4, SEC. 4, TWP. 16N, RNG. 9E, 4th PM, Latitude 41.39361, Longitude -89.46704

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. ______
Station ______

BORING NO. 3 (NE Quad.)
Station ______
Offset ______
Ground Surface Elev. 574.43 ft

Surface Water Elev. ______ ft
Stream Bed Elev. ______ ft

Groundwater Elev.:
First Encounter 565.9 ft ▼
Upon Completion 562.4 ft ▽
After ___ Hrs. ______ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Black and Brown Silty Clay Loam Fill	571.93				
Very Stiff Black Silty Clay Loam Fill			5 3 4	3.0 P	25
	569.93				
Very Stiff Gray and Brown Silty Clay Loess		-5	3 3 3	2.0 P	25
	565.93 ▼		3 2 5	2.0 P	22
Medium Brown Fine to Course Sand with Some Gravel Layers		-10	4 8 8		14
	562.43 ▽				
Medium to Stiff Purplish Gray Silty Clay Loam Till			1 2 2	0.5 P	15
	557.93	-15	3 4 5	1.5 P	15
End of Boring		-20			

SOIL BORING IL 26 & BACKBONE RD IN PRINCETON SIGNALS.GPJ IL_DOT.GDT 11/21/25

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: c:\pw_work\pwidot\nalascoc\d1151308\D366T14-sht-details.dgn

USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 5/5/2026	DATE -	REVISED -	

IL 26 & BACKBONE RD
SOIL BORING LOG

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46, 615	(1,1Z) & (116)TS	*	23	23

CONTRACT NO. 66T14
ILLINOIS FED. AID PROJECT

* LASALLE & BUREAU