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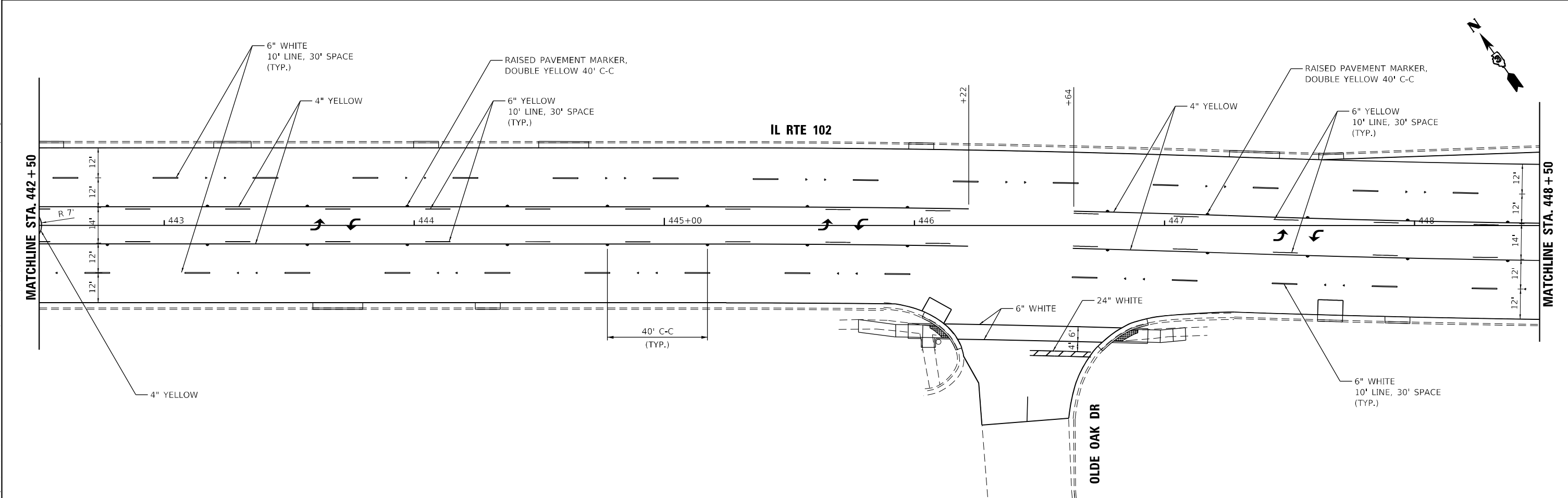
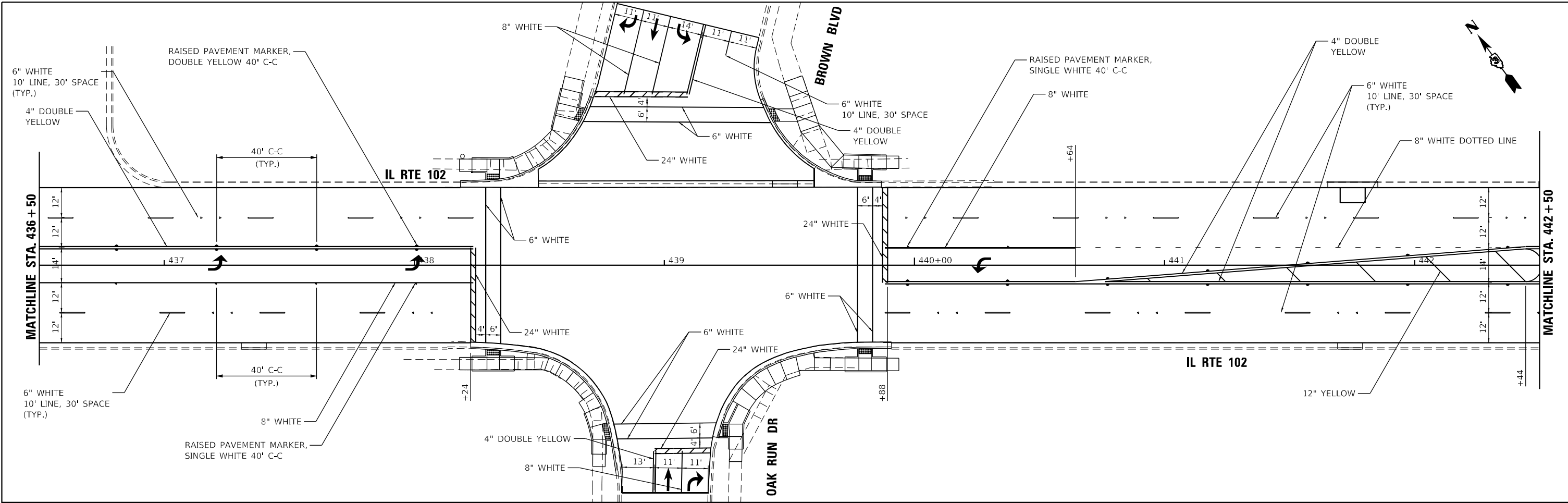


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN IL RTE 102			
SCALE:	SHEET 7	OF 9	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N.110N)RS-3-SW	KANKAKEE	148	101
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



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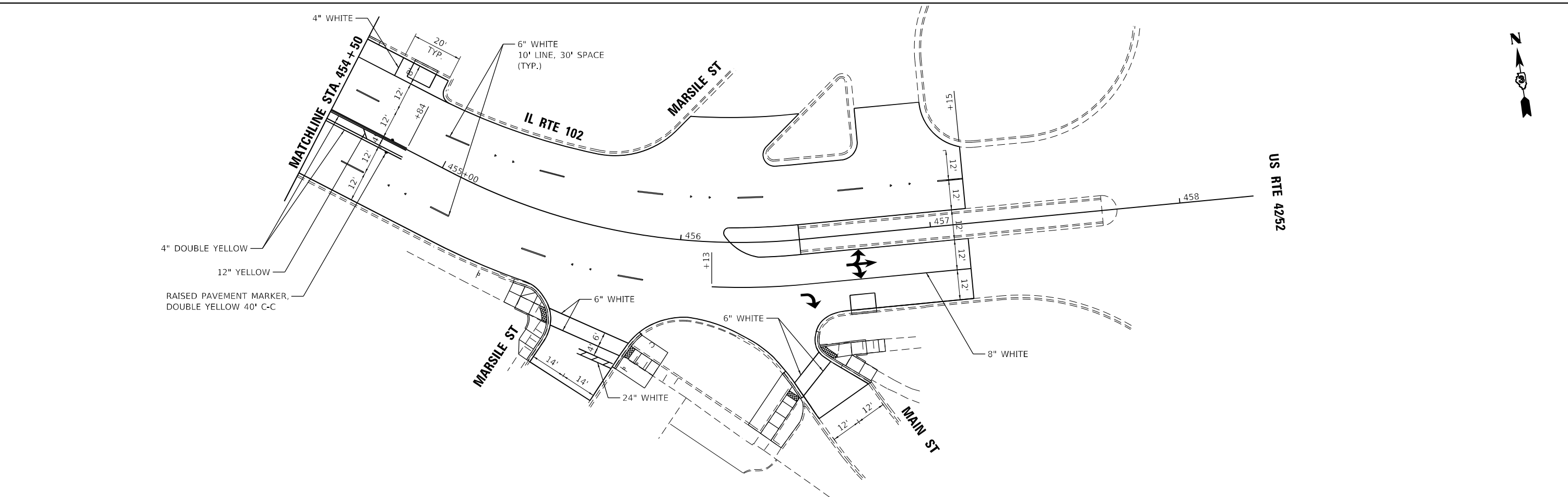
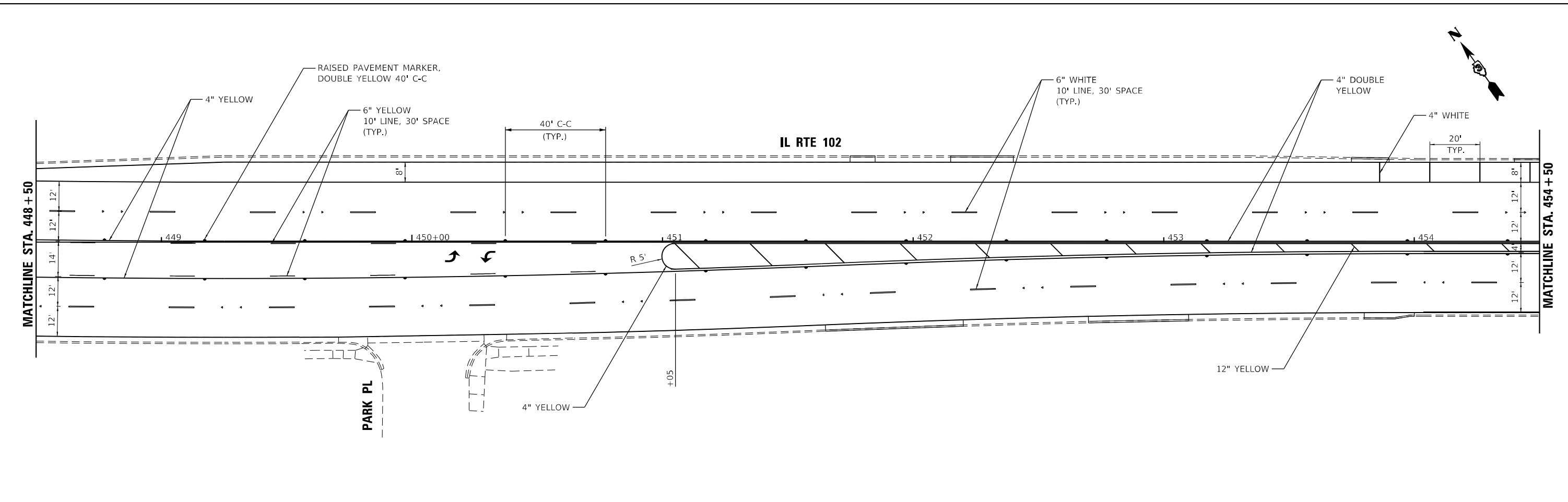
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN			
IL RTE 102			
SCALE:	SHEET 8	OF 9	SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3.5W	KANKAKEE	148	102
				CONTRACT NO. 66L88
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN IL RTE 102			
SCALE:	SHEET 9	OF 9	SHEETS STA. TO STA.

F.A.P. RTE. 631	SECTION (109N.110N)RS-3-SW	COUNTY KANKAKEE	TOTAL SHEETS 148	SHEET NO. 103
				CONTRACT NO. 66L88
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED AT 815-434-5806 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.

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 JULIE NUMBER IS 800-892-0123. THE MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

• AQUA ILLINOIS	• COMMENWEALTH EDISON
• SBC	• NICOR GAS
• COMCAST COMMUNICATIONS	• PHILLIPS PIPELINE
• EXPLORER PIPELINE	• FOILON PIPELINE
• KINDER MORGAN ENERGY PARTNERS	• VILLAGE OF BOURBONNAIS

ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.

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.

A 1/4" 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 THE CONDUIT PAY ITEM.

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.

ALL CONDUIT IN TRENCH SHALL BE PVC. ALL PUSHED CONDUIT MAY BE PVC OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.

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

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

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

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

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

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

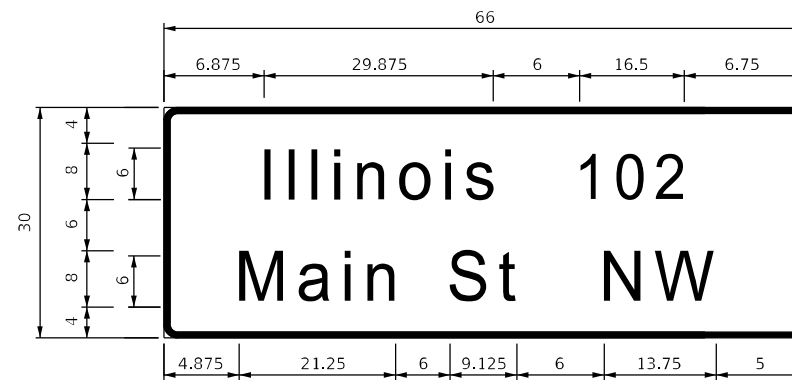
BACKPLATES SHALL BE POLYCARBONATE, LOUVERED FORMED BACKPLATES WITH FLOURESCENT YELLOW SHEETING.

ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE POLYCARBONATE BLACK HOUSING AND STEEL OR ALUMINUM BRACKETS.

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

ANY EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGRATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

SIGN PANEL DETAIL



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	8

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.

LOCATION/TYPE	SIZE	QUANTITY	REMOVE SIGN PANEL TYPE 1	SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	REMOVE AND REINSTALL SIGN PANEL
	INCHES	EACH	SQ FT	SQ FT	SQ FT	SQ FT
IL 102 AND CAREER CENTER RD/BRIARCLIFF LN						
NORTHBOUND MAST ARM						
LEFT TURN YIELD ON GREEN (R10-12)	24 x 30	1				5
ILLINOIS 102 - STREET NAME SIGN	60 x 18	1	7.5			
ILLINOIS 102 MAIN ST NW - STREET NAME SIGN	66 x 30	1			13.75	
WESTBOUND MAST ARM						
LEFT TURN YIELD ON GREEN (R10-12)	24 x 30	1				5
CAREER CENTER RD - STREET NAME SIGN	90 x 18	2				22.5
SOUTHBOUND MAST ARM						
LEFT TURN YIELD ON GREEN (R10-12)	24 x 30	1				5
ILLINOIS 102 - STREET NAME SIGN	60 x 18	1	7.5			
ILLINOIS 102 MAIN ST NW - STREET NAME SIGN	66 x 30	1			13.75	
EASTBOUND MAST ARM						
LEFT TURN YIELD ON GREEN (R10-12)	24 x 30	1				5
BRIARCLIFF LANE - STREET NAME SIGN	78 x 18	2				19.5
NE QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
SE QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
IL 102 AND WM LATHAM SR DR						
NORTHBOUND MAST ARM						
ILLINOIS 102 - STREET NAME SIGN	60 x 18	1	7.5			
ILLINOIS 102 MAIN ST NW - STREET NAME SIGN	66 x 30	1			13.75	
WESTBOUND MAST ARM						
LEFT TURN YIELD ON GREEN (R10-12)	24 x 30	1				5
WM LATHAM SR DR - STREET NAME SIGN	84 x 18	1				10.5
SOUTHBOUND MAST ARM						
ILLINOIS 102 - STREET NAME SIGN	60 x 18	1	7.5			
ILLINOIS 102 MAIN ST NW - STREET NAME SIGN	66 x 30	1			13.75	
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
EASTBOUND						
LEFT TURN YIELD ON GREEN (R10-12)	24 x 30	1				5
WM LATHAM SR DR - STREET NAME SIGN	84 x 18	1				10.5
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
NORTHWEST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
NORTHWEST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
NORTHWEST ISLAND POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	2		*		
NORTHEAST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
NORTHEAST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
SOUTHEAST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		

* - INCLUDED WITH ACCESSIBLE PEDESTRIAN SIGNALS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
GENERAL NOTES AND SIGNING**

SCALE: 1"=20' SHEET 1 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	104
				CONTRACT NO. 66L88
ILLINOIS FED. AID PROJECT				

LOCATION/TYPE	SIZE	QUANTITY	REMOVE SIGN PANEL TYPE 1	SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	REMOVE AND REINSTALL SIGN PANEL
	INCHES	EACH	SQ FT	SQ FT	SQ FT	SQ FT
SOUTHWEST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
IL 102 AND STRATFORD DR						
NORTHBOUND MAST ARM						
ILLINOIS 102 MAIN ST NW - STREET NAME SIGN	66 x 30	1			13.75	
WESTBOUND MAST ARM						
LEFT TURN YIELD ON GREEN (R10-12)	24 x 30	1				5
STRATFORD DR - STREET NAME SIGN	66 x 18	1				8.25
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
SOUTHBOUND MAST ARM						
LEFT TURN YIELD ON GREEN (R10-12)	24 x 30	1		5		
ILLINOIS 102 MAIN ST NW - STREET NAME SIGN	66 x 30	1			13.75	
EASTBOUND						
LEFT TURN YIELD ON GREEN (R10-12)	24 x 30	1				5
STRATFORD DR - STREET NAME SIGN	66 x 18	1				8.25
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
NORTHWEST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
NORTHEAST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
NORTHEAST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
SOUTHEAST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
SOUTHWEST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
SOUTHWEST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
IL 102 AND BROWN BLVD/OAK RUN DR						
NORTHBOUND MAST ARM						
ILLINOIS 102 - STREET NAME SIGN	60 x 18	1	7.5			
ILLINOIS 102 MAIN ST NW - STREET NAME SIGN	66 x 30	1			13.75	
SOUTHBOUND MAST ARM						
ILLINOIS 102 - STREET NAME SIGN	60 x 18	1	7.5			
ILLINOIS 102 MAIN ST NW - STREET NAME SIGN	66 x 30	1			13.75	
NORTHWEST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
NORTHWEST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
NORTHEAST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
NORTHEAST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		

LOCATION/TYPE	SIZE	QUANTITY	REMOVE SIGN PANEL TYPE 1	SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	REMOVE AND REINSTALL SIGN PANEL
	INCHES	EACH	SQ FT	SQ FT	SQ FT	SQ FT
SOUTHEAST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
SOUTHEAST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
SOUTHWEST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
SOUTHWEST QUADRANT POST						
PEDESTRIAN CROSSING SIGNAL INFO (R10-3i)	9 x 15	1		*		
TOTAL						
			45	5	110	119.5

* - INCLUDED WITH ACCESSIBLE PEDESTRIAN SIGNALS

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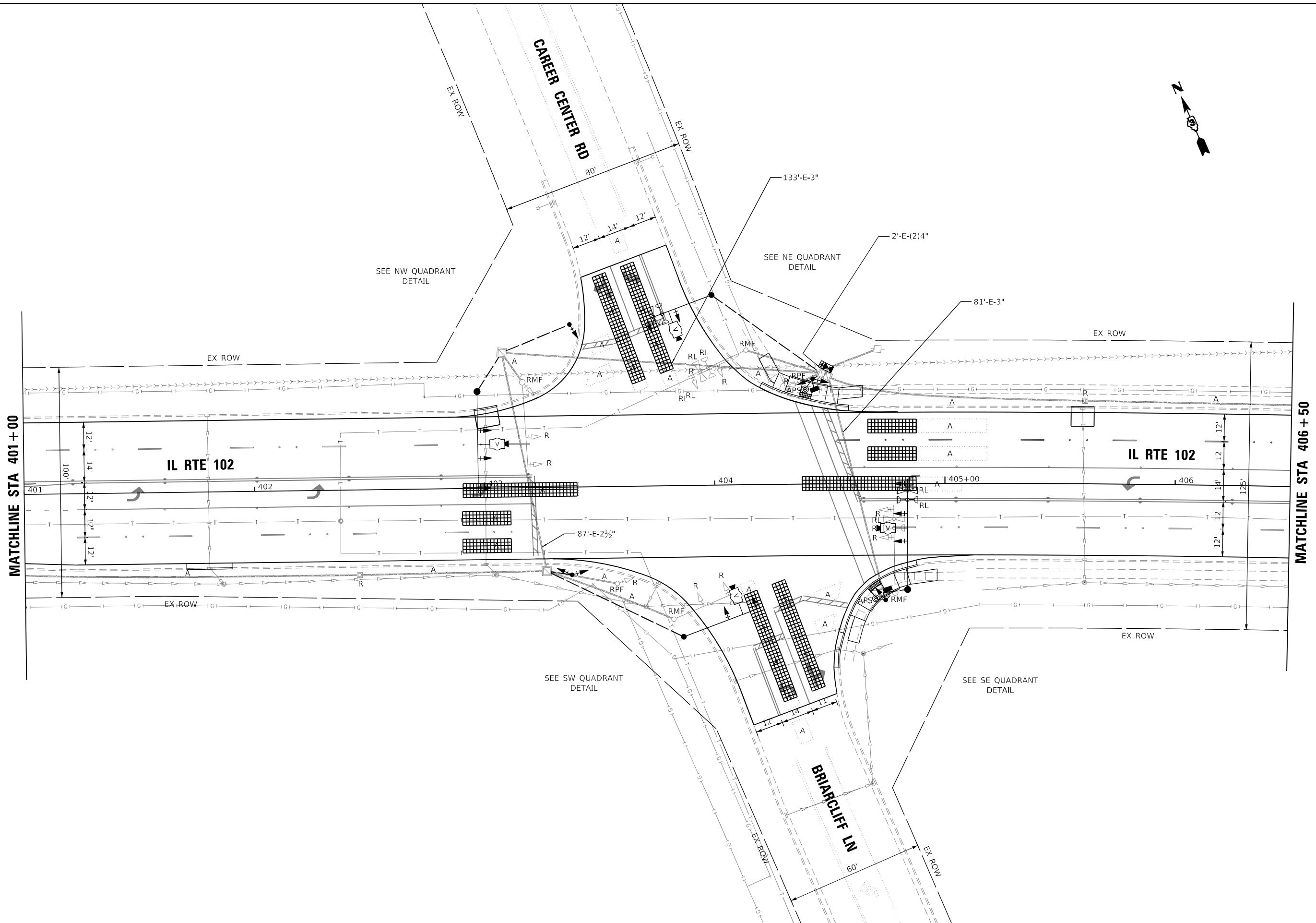
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
 GENERAL NOTES AND SIGNING

SCALE: 1"=20' SHEET 2 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	105
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



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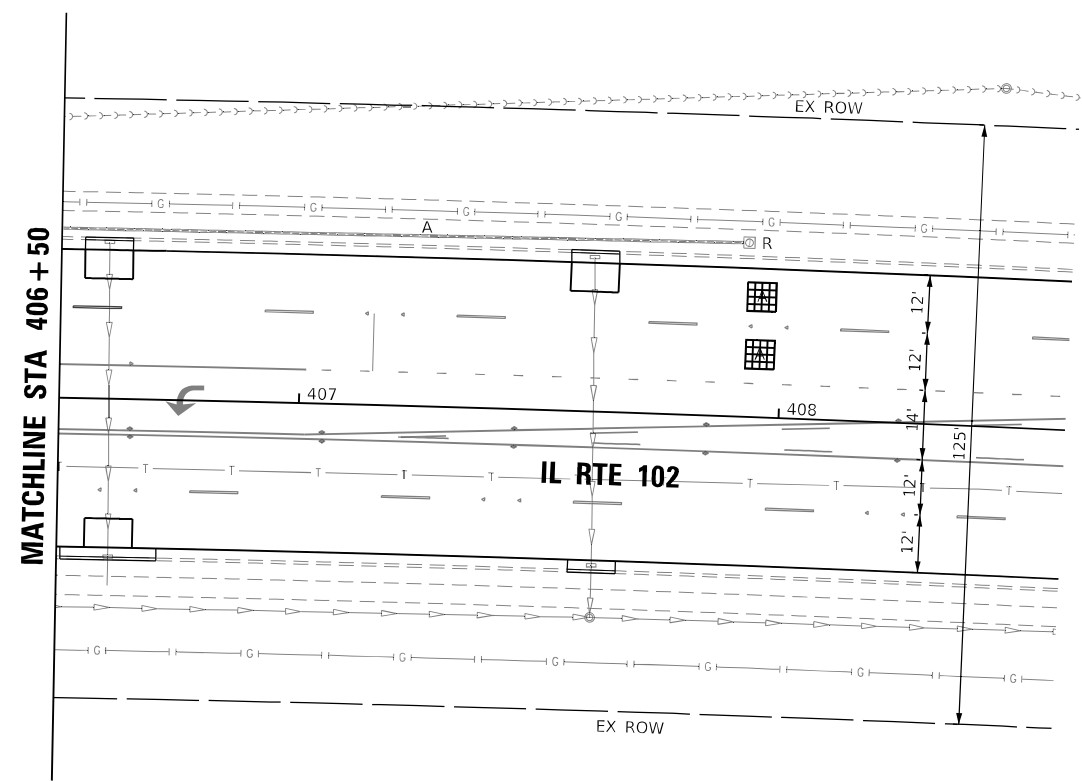
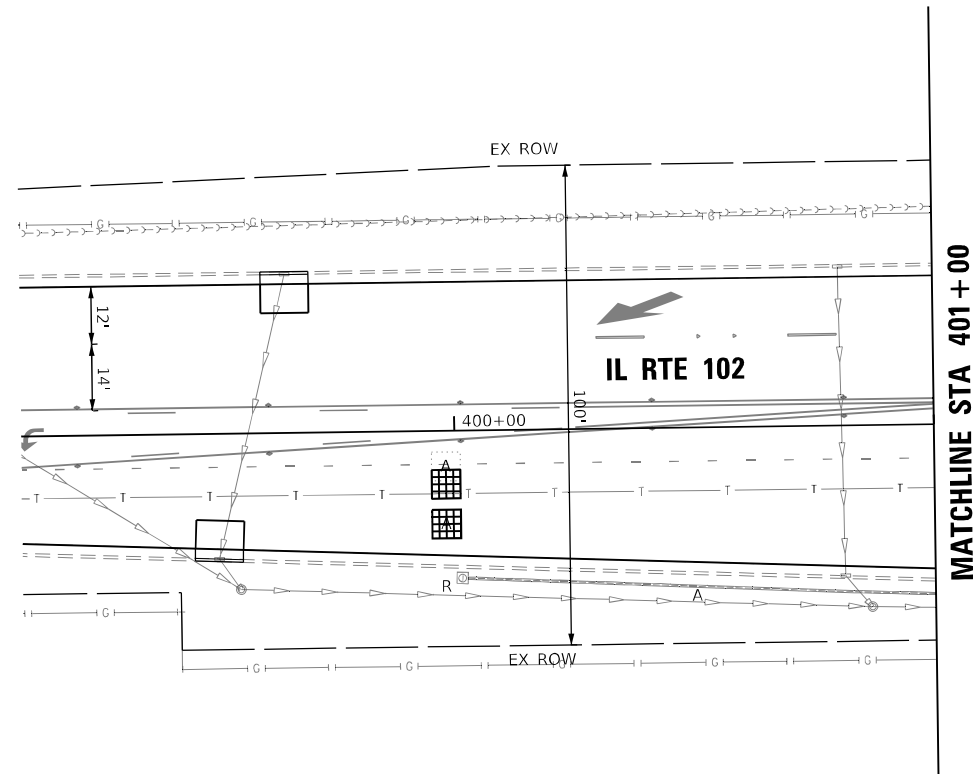
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND CAREER CENTER RD / BRIARCLIFF LN - SH 1 OF 2

SCALE: 1"=20' SHEET 3 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	106
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

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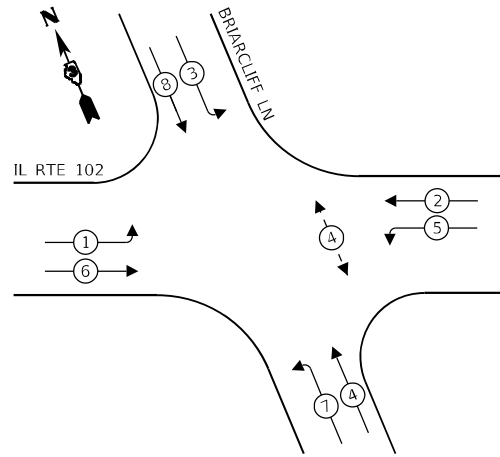
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
 IL RTE 102 AND CAREER CENTER RD / BRIARCLIFF RD - SH 2 OF 2

SCALE: 1"=20' SHEET 4 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 66L88	
			ILLINOIS FED. AID PROJECT	

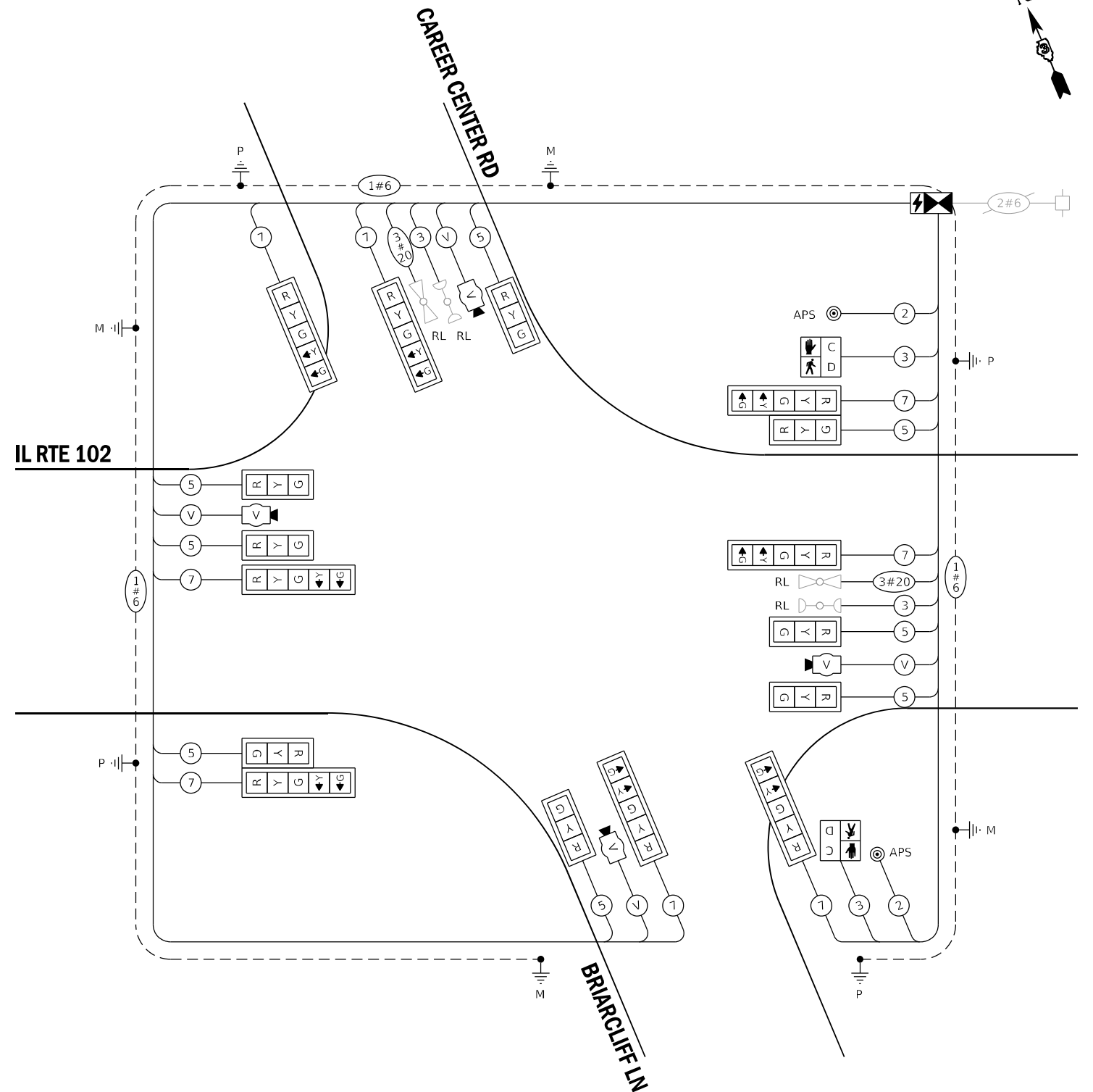
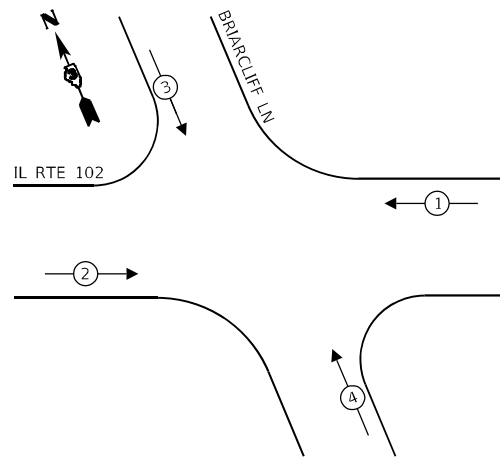
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



CABLE PLAN
(NOT TO SCALE)

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

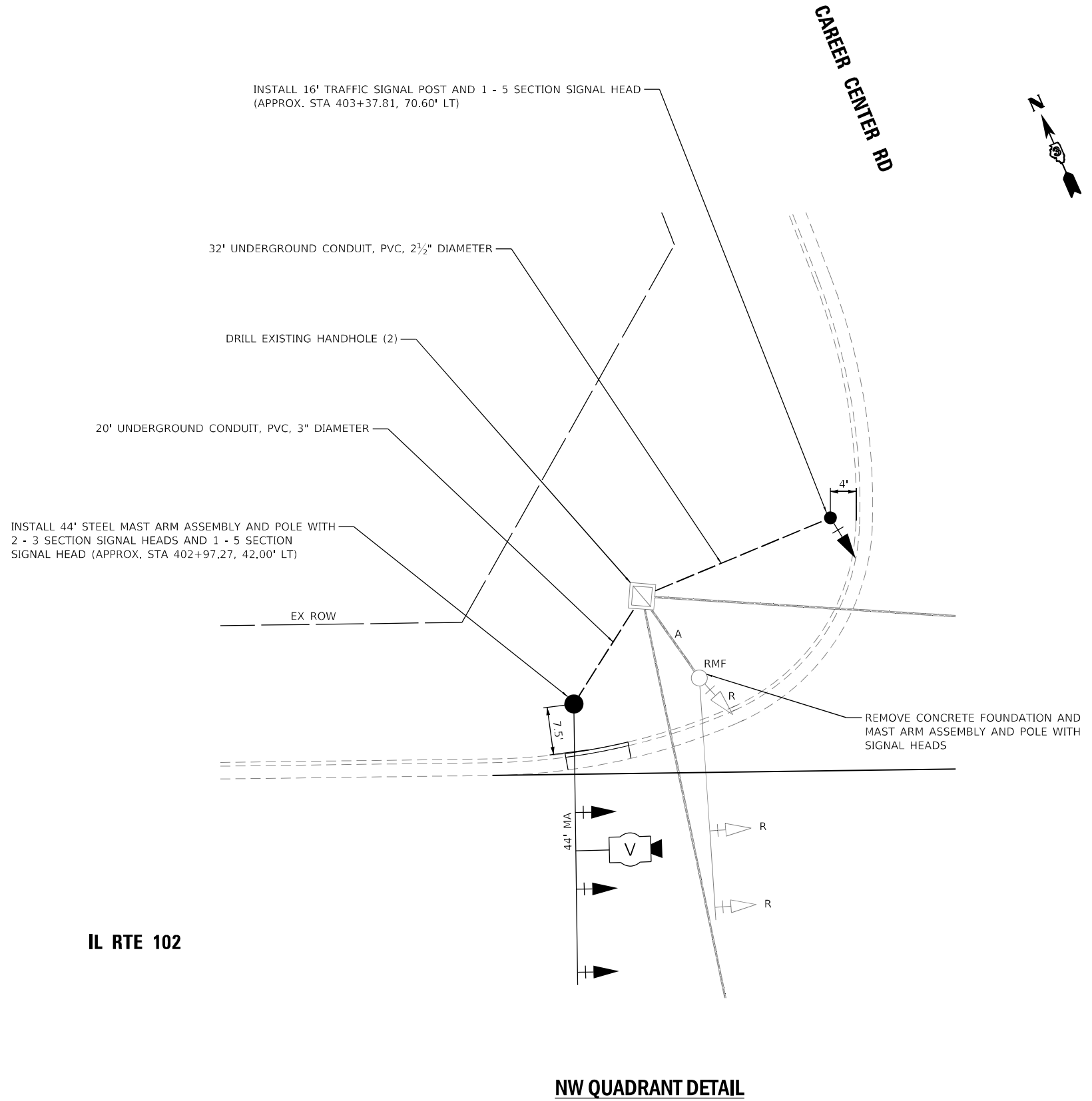
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
IL RTE 102 AND CAREER CENTER RD /BRIARCLIFF LN**

SCALE: SHEET 5 OF 36 SHEETS STA. TO STA.

F.A.P. RTE. 631	SECTION (109N.110N)RS-3.5W	COUNTY KANKAKEE	TOTAL SHEETS 148	SHEET NO. 108
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON



BILL OF MATERIALS - NW QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	32
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	20
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	454
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	458
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	385
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	723
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ROD AND CLEAN EXISTING CONDUIT	FOOT	133
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25

IL RTE 102

NW QUADRANT DETAIL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND CAREER CENTER RD /BRIARCLIFF LN - NW QUADRANT
 SCALE: 1"=10' SHEET 6 OF 36 SHEETS STA. TO STA.

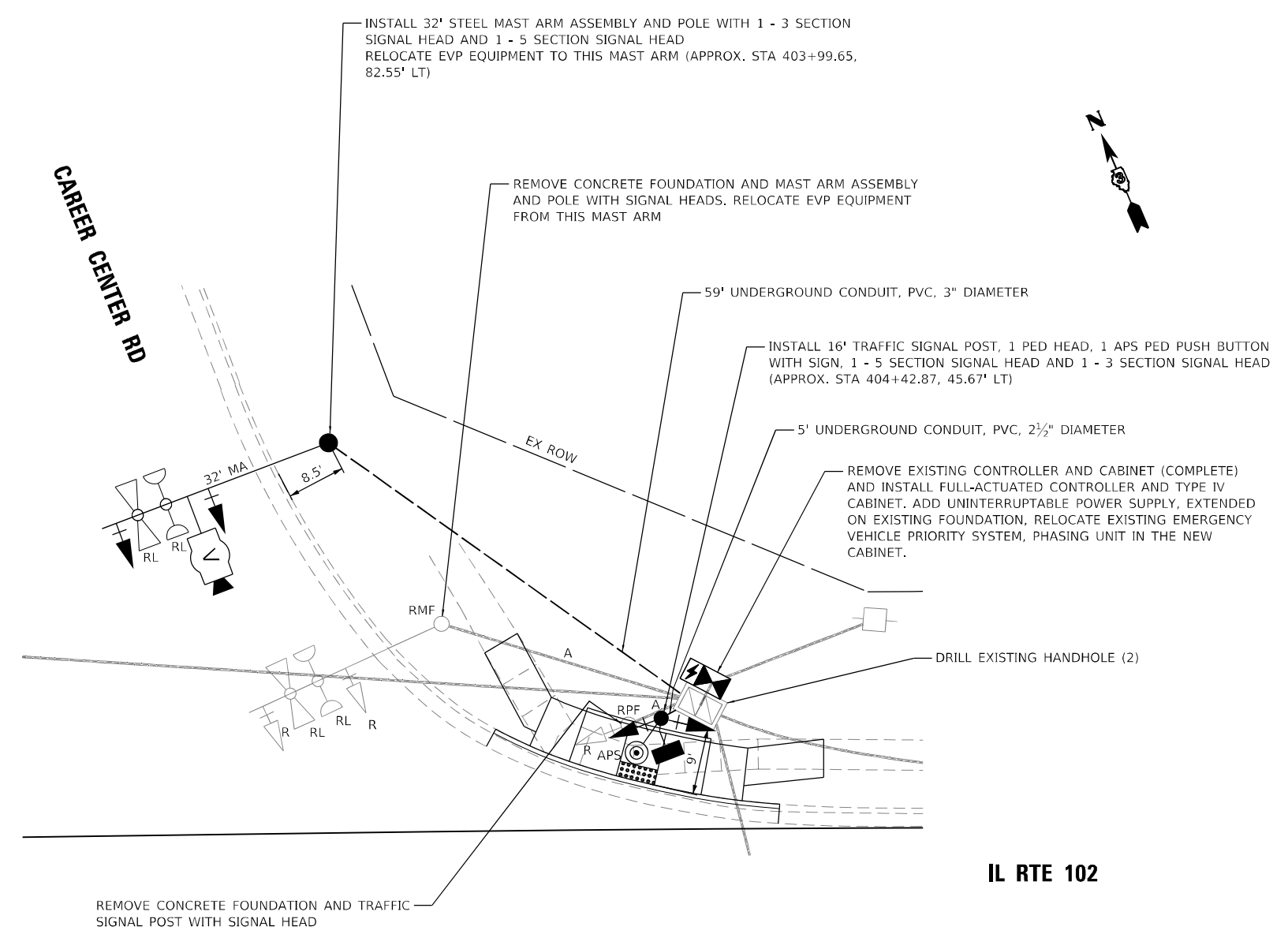
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	109
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

BILL OF MATERIALS - NE QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	5
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	59
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	33.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	179
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	121.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	179
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	112
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	482
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	133.5
ROD AND CLEAN EXISTING CONDUIT	FOOT	2
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
REMOVE EXISTING JUNCTION BOX	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	1
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25
PERMANENT TRAFFIC SIGNAL TIMING	EACH	1



NE QUADRANT DETAIL

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

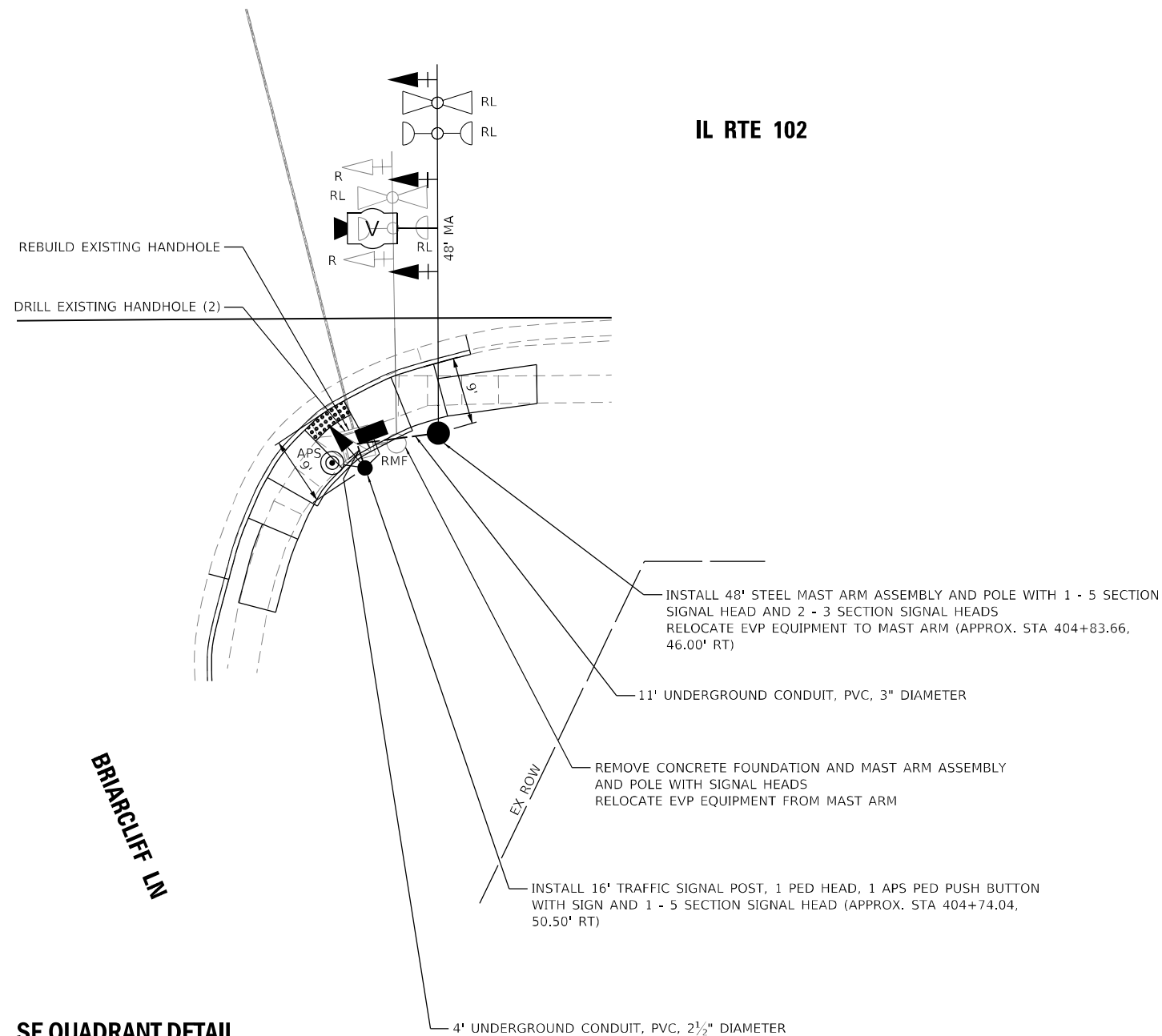
TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND CAREER CENTER RD /BRIARCLIFF LN - NE QUADRANT
 SCALE: 1"=10' SHEET 7 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	110
			CONTRACT NO. 66L88	
		ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

IL RTE 102



SE QUADRANT DETAIL

BILL OF MATERIALS - SE QUADRANT

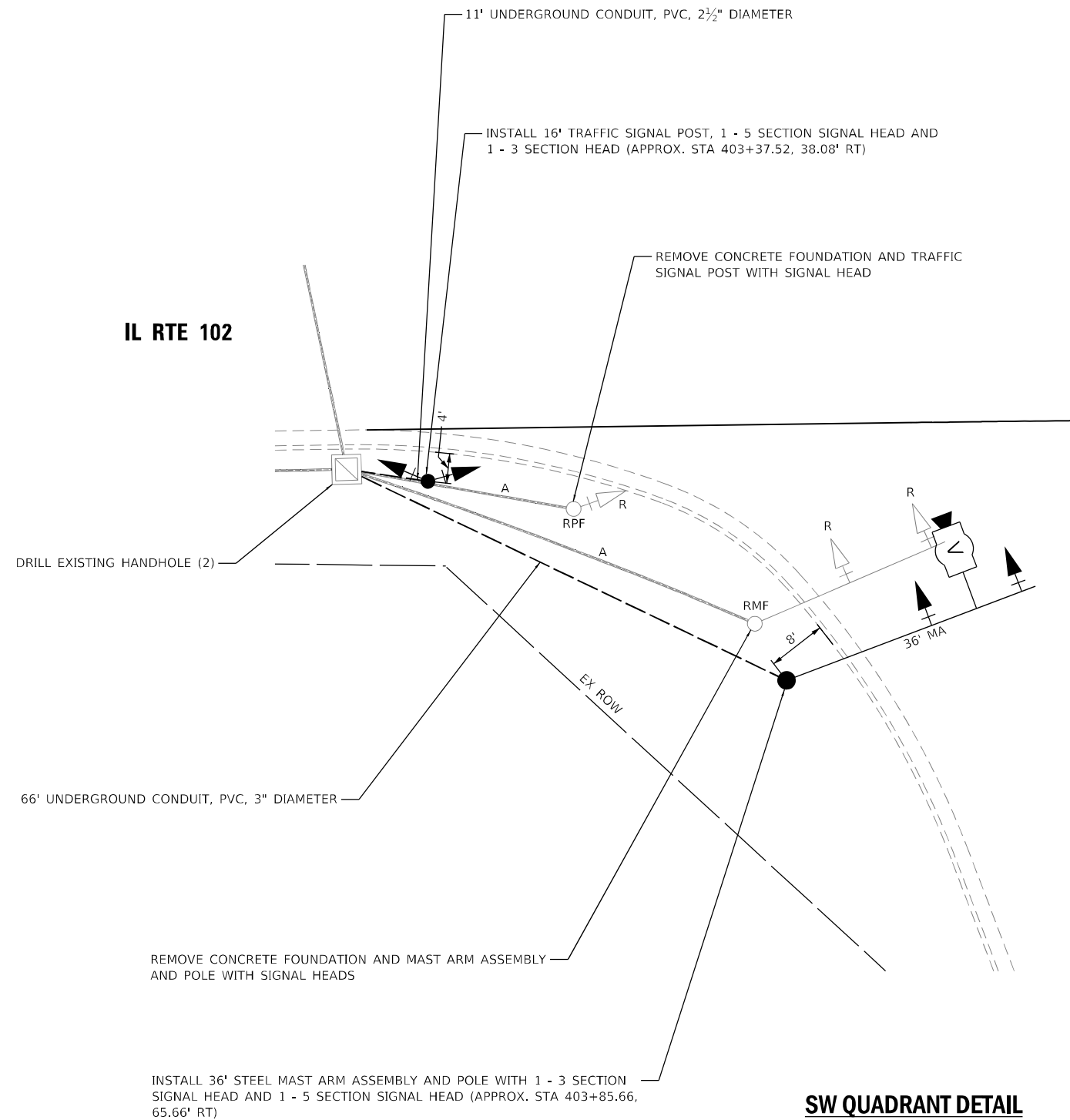
PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	4
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	11
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	120
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	315
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	340
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	321
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	238
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	692
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	189
ROD AND CLEAN EXISTING CONDUIT	FOOT	81
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	1
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25



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	DATE -	REVISED -

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON



BILL OF MATERIALS - SW QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	11
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	66
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	650
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	662
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	591
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	11
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1940
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
ROD AND CLEAN EXISTING CONDUIT	FOOT	87
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
REMOVE EXISTING JUNCTION BOX	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25

SW QUADRANT DETAIL

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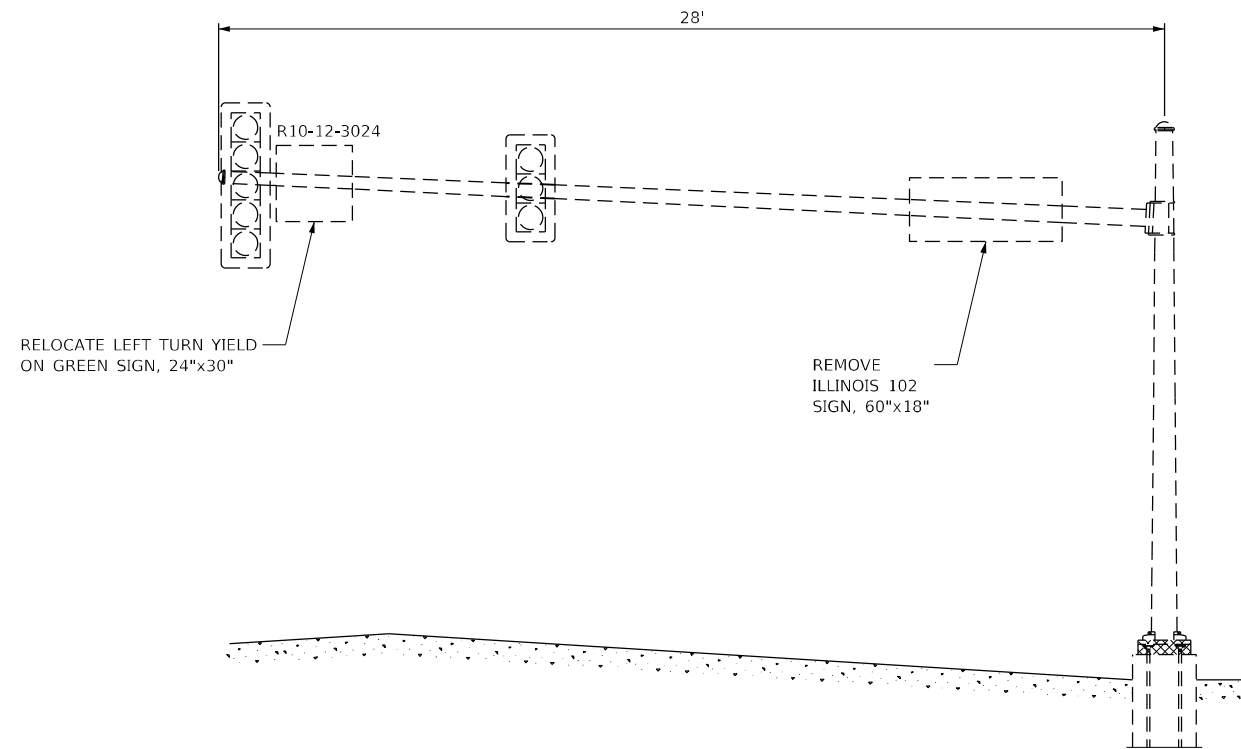
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

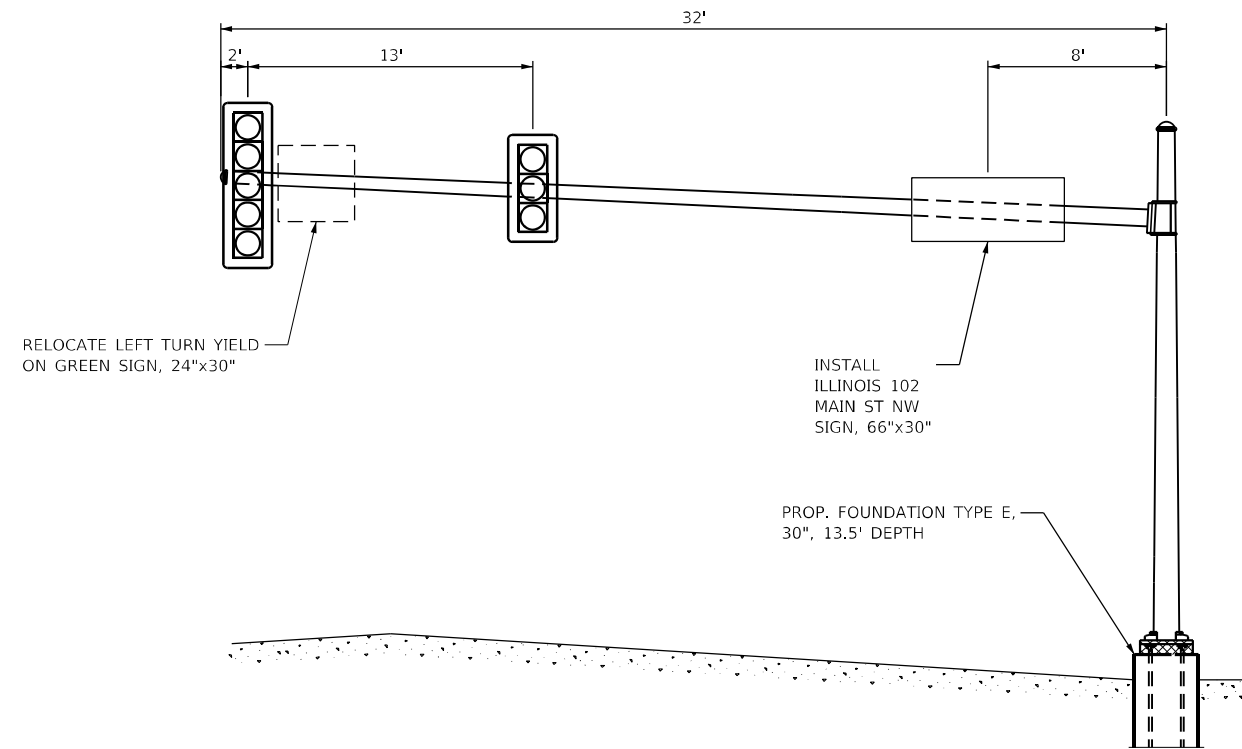
TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND CAREER CENTER RD /BRIARCLIFF LN - SW QUADRANT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	112
			CONTRACT NO. 66L88	
		ILLINOIS	FED. AID PROJECT	

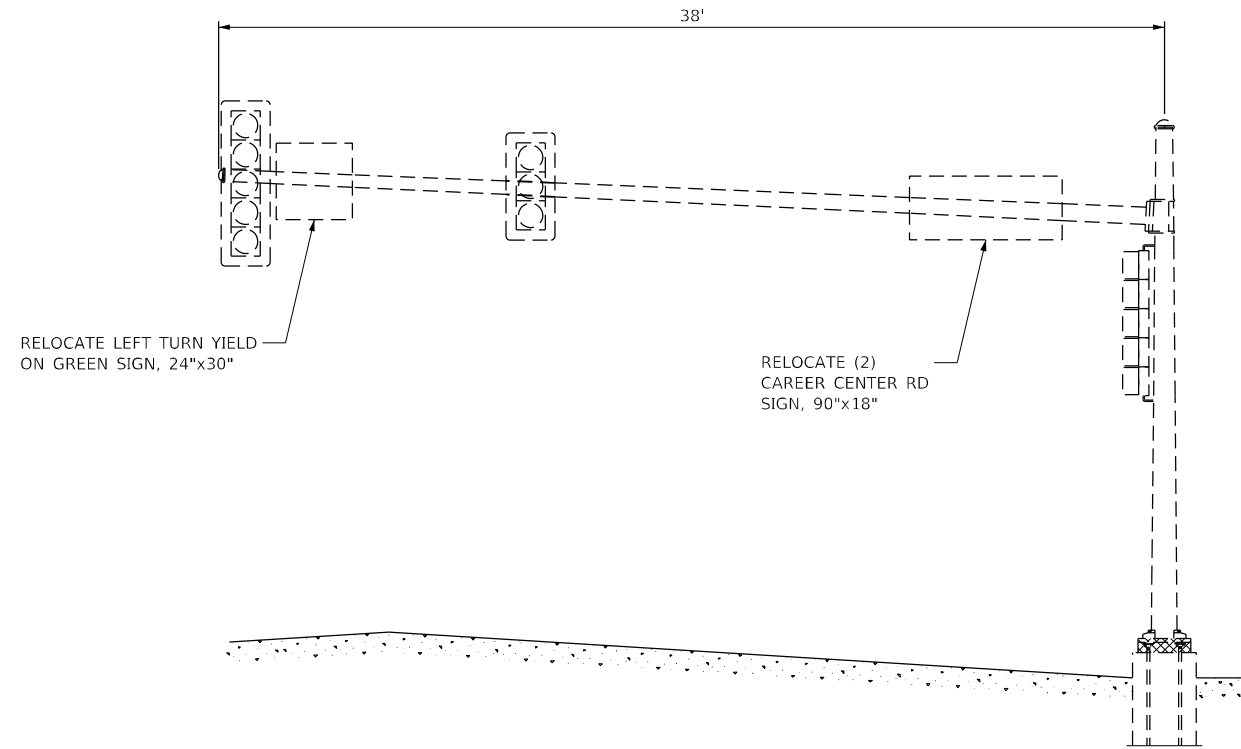
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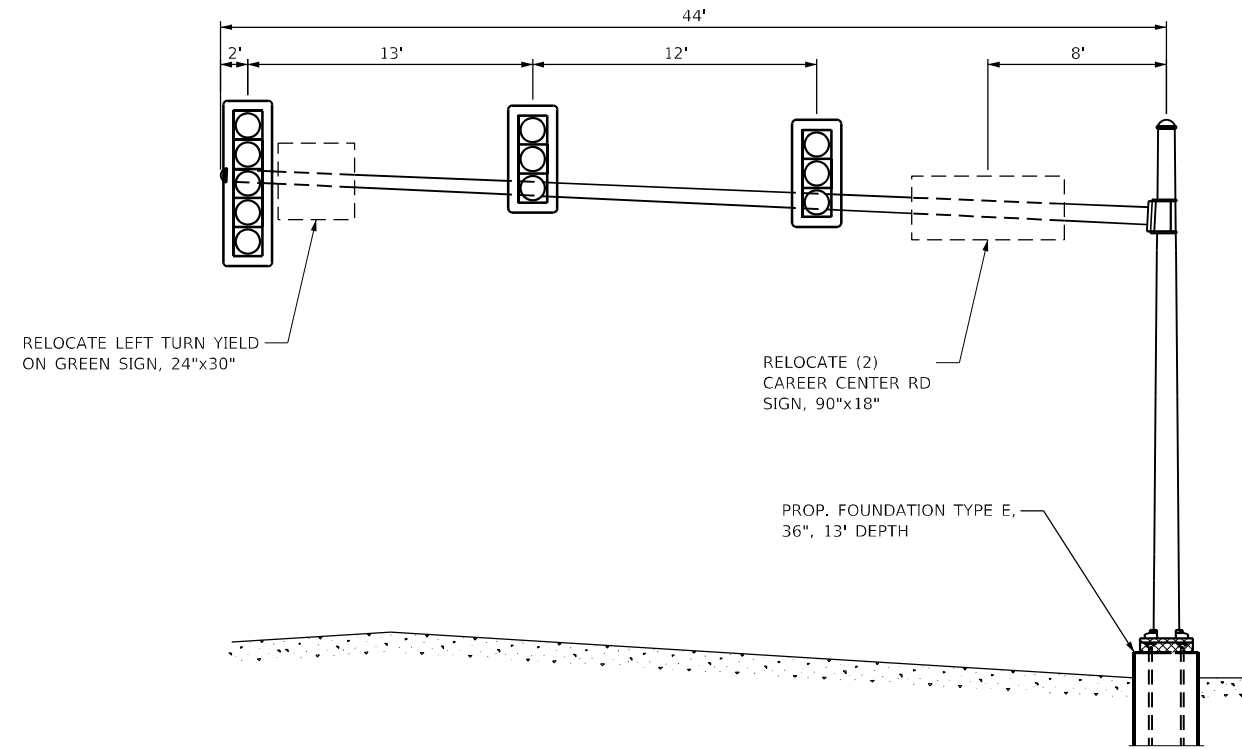
EXISTING MAST ARM ASSEMBLY (N.T.S.)
NORTHBOUND (NE QUADRANT)



PROPOSED MAST ARM ASSEMBLY (N.T.S.)
NORTHBOUND (NE QUADRANT)



EXISTING MAST ARM ASSEMBLY (N.T.S.)
WESTBOUND (NW QUADRANT)



PROPOSED MAST ARM ASSEMBLY (N.T.S.)
WESTBOUND (NW QUADRANT)

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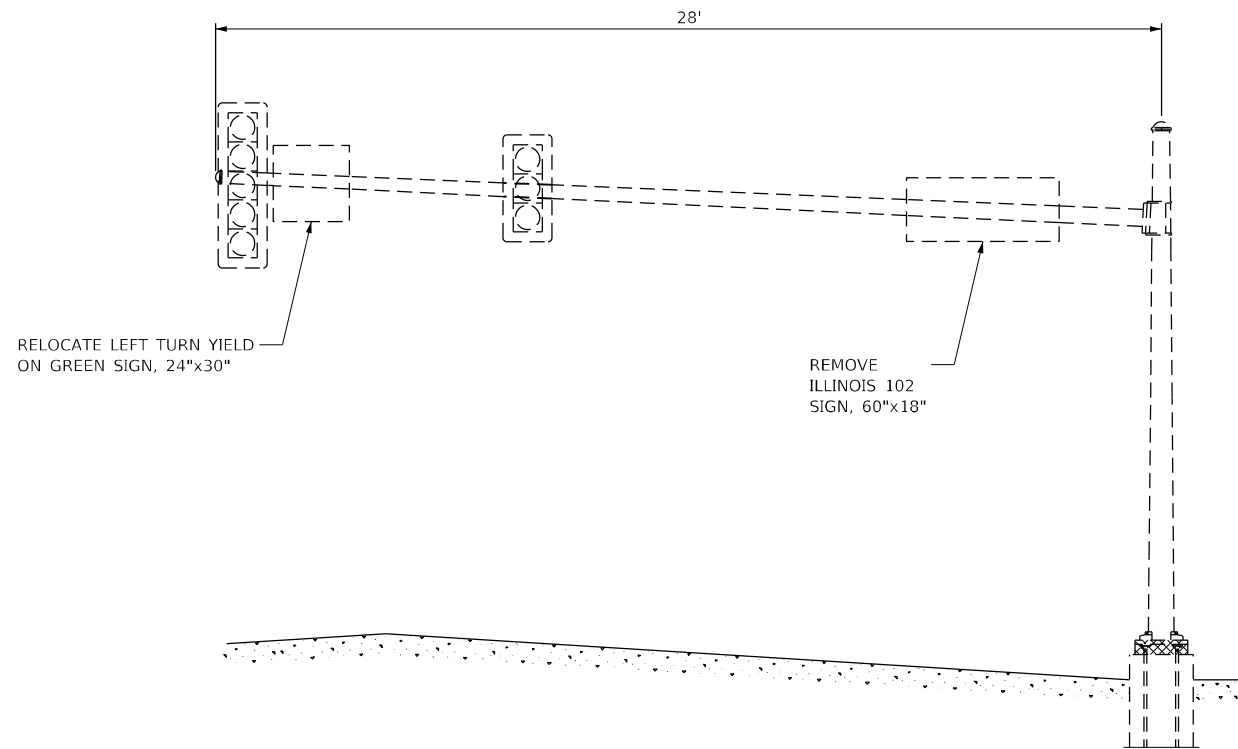
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM DETAILS - IL RTE 102 AND CAREER CENTER RD /
BRIARCLIFF LN - NORTHBOUND AND WESTBOUND**

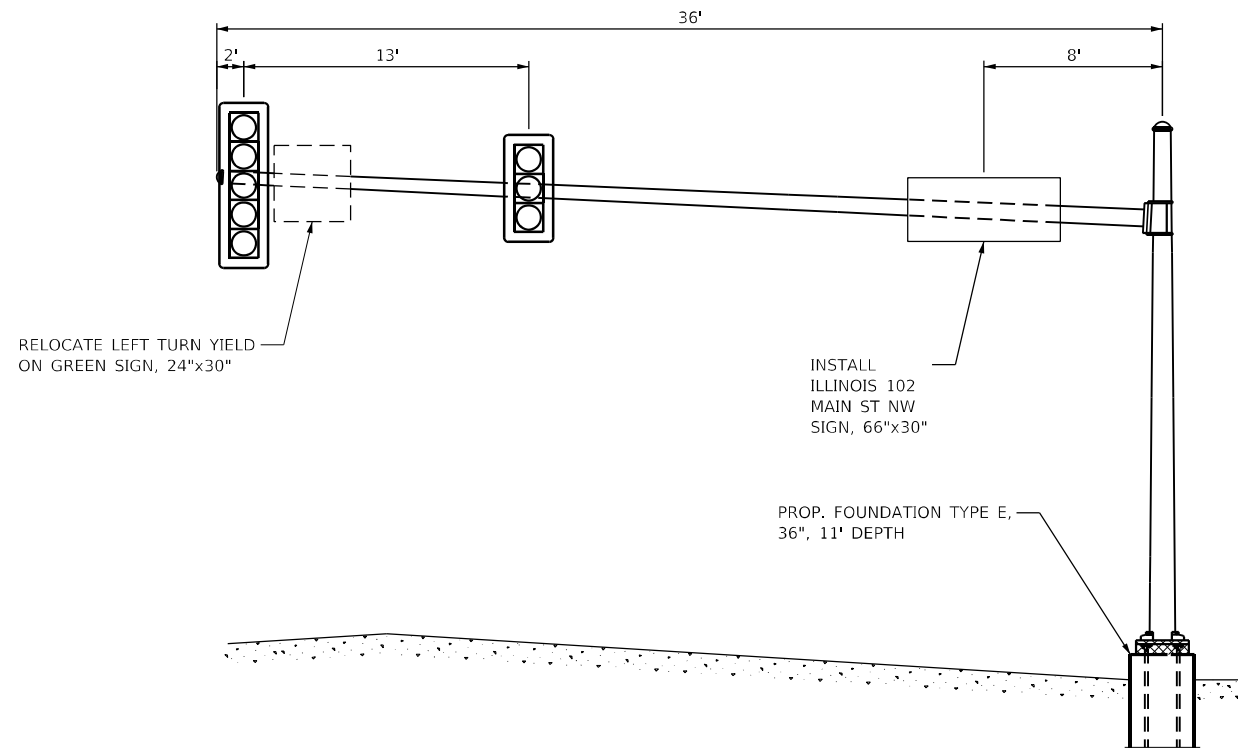
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	113
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



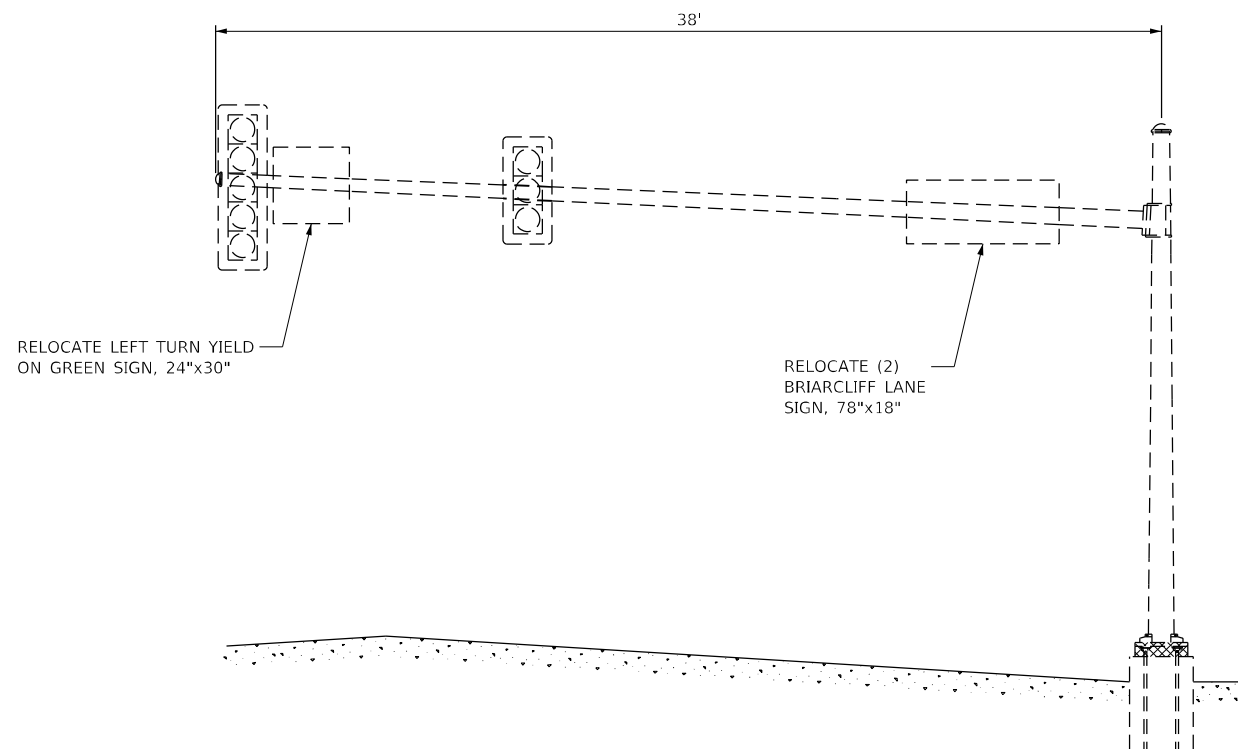
EXISTING MAST ARM ASSEMBLY (N.T.S.)

SOUTHBOUND (SW QUADRANT)



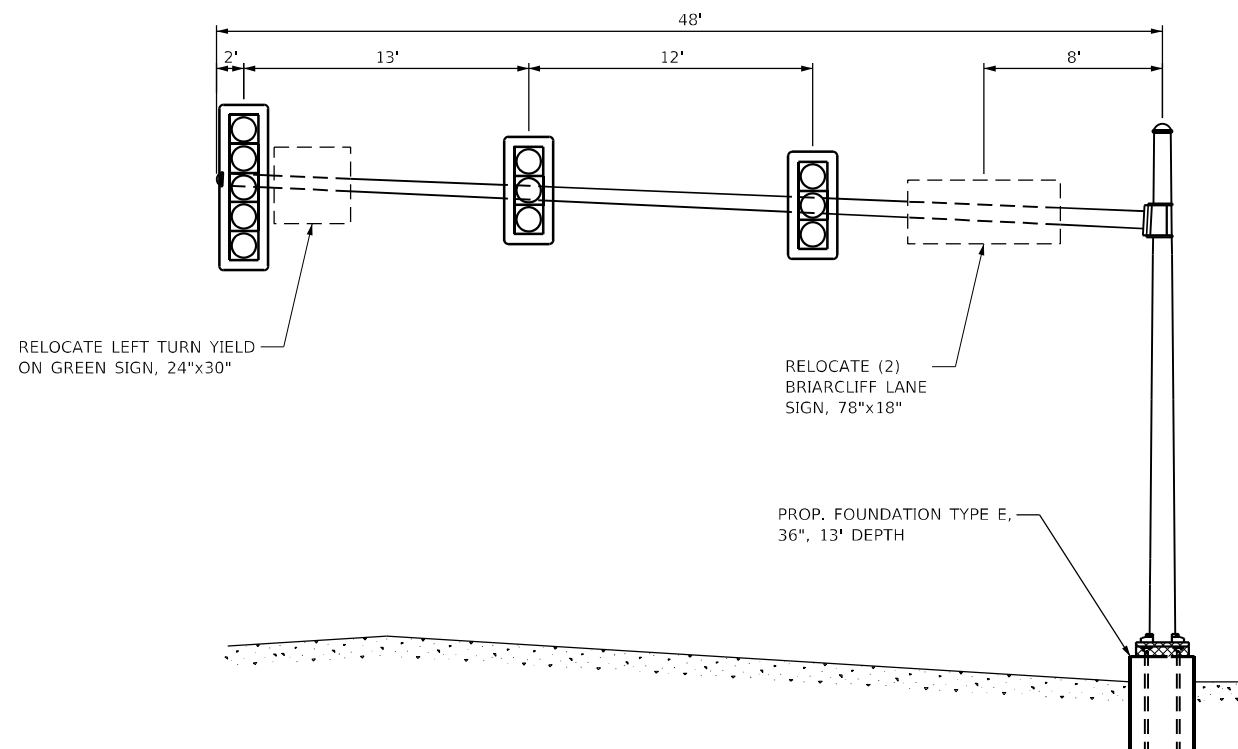
PROPOSED MAST ARM ASSEMBLY (N.T.S.)

SOUTHBOUND (SW QUADRANT)



EXISTING MAST ARM ASSEMBLY (N.T.S.)

EASTBOUND (SE QUADRANT)



PROPOSED MAST ARM ASSEMBLY (N.T.S.)

EASTBOUND (SE QUADRANT)

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM DETAILS - IL RTE 102 AND CAREER CENTER RD /
BRIARCLIFF LN - SOUTHBOUND AND EASTBOUND**

SCALE: SHEET 11 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	114
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 1

Date 7/27/20

ROUTE IL 102 / Career Center Rd DESCRIPTION Traffic Signal Foundations - IL 102 (Main St.) & Briarcliff Ln / Career Center Rd. LOGGED BY Larry Myers

SECTION LOCATION SW 1/4, SEC. 18, TWP. 31N, RNG. 12E, 3rd PM, Latitude 41.16335, Longitude -87.89457

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
BORING NO.	P	O	S	I	ft	P	O	S	I
Station	T	W	Qu	T	Dry	H	S	Qu	T
Offset	H	S			ft				
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
Augered Black Silty Clay Loam									
Topsoil, Brown Silty Clay									
					695.22				
Hard Light Brown Silty Clay Loam	7								
Till	8	>4.5		16					
	10	P							
					-5				
	5								
	7	6.1		17					
	11	S							
	5								
	7	6.1		17					
	13	S							
					-10				
	5								
	7	6.1		18					
	12	S							
Hard Gray Silty Clay Till					685.22				
	5								
	9	6.1		17					
	14	S							
					-15				
	5								
	7	5.4		17					
	9	S							
	5								
	6	5.2		17					
	9	S							
					-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 LOG

Page 1 of 1

Date 7/27/20

ROUTE IL 102 / Career Center Rd DESCRIPTION Traffic Signal Foundations - IL 102 (Main St.) & Briarcliff Ln / Career Center Rd. LOGGED BY Larry Myers

SECTION LOCATION SW 1/4, SEC. 18, TWP. 31N, RNG. 12E, 3rd PM, Latitude 41.16287, Longitude -87.89469

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
BORING NO.	P	O	S	I	ft	P	O	S	I
Station	T	W	Qu	T	Dry	H	S	Qu	T
Offset	H	S			ft				
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
Augered Black Silty Clay Loam									
Topsoil, Brown Silty Clay Loam									
Fill									
					696.30				
Hard Light Brown Silty Clay Till	5								
	5	4.5		24					
		P							
					-5				
	4								
	5	4.6		20					
	6	B							
	6								
	9	6.1		19					
	11	S							
					-10				
	7								
	8	6.1		18					
	11	S							
	6								
	7	5.4		16					
	10	S							
Hard Gray Silty Clay Till					684.80				
					-15				
	5								
	6	5.1		17					
	9	S							
					682.30				
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)

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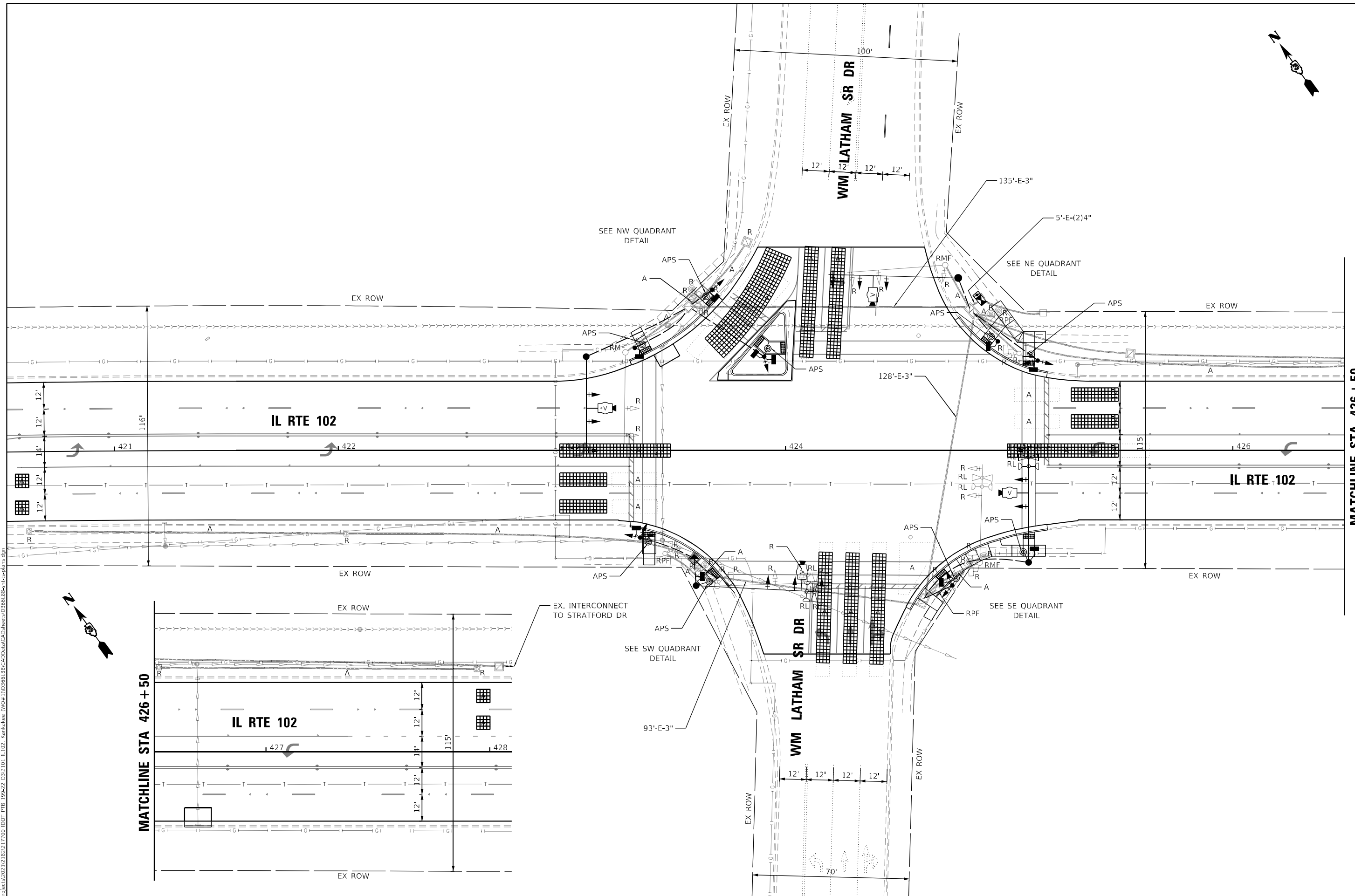
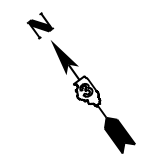
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 102 AND CAREER CENTER RD /BRIARCLIFF LN
SOIL BORING LOG

SCALE: SHEET 12 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	115
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 426 + 50

MATCHLINE STA 426 + 50

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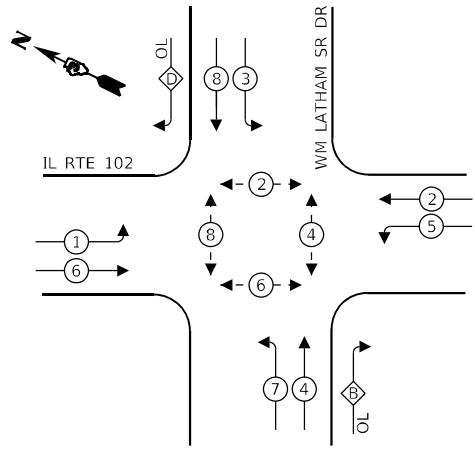
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 102 AND WM LATHAM SR DR		
SCALE: 1"=20'	SHEET 13 OF 36 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	116
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



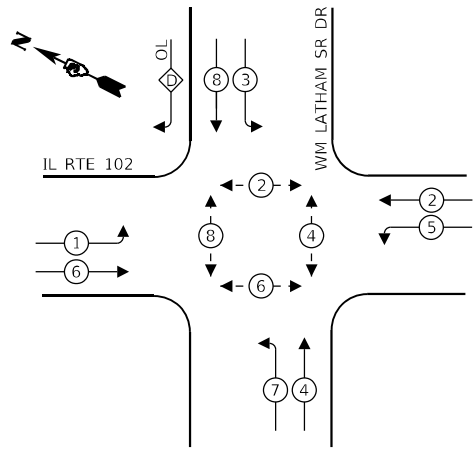
LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ — — PROTECTED/PERMITTED PHASE
- ⊙ — ⊙ — PEDESTRIAN PHASE
- ⊙ — ⊙ — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

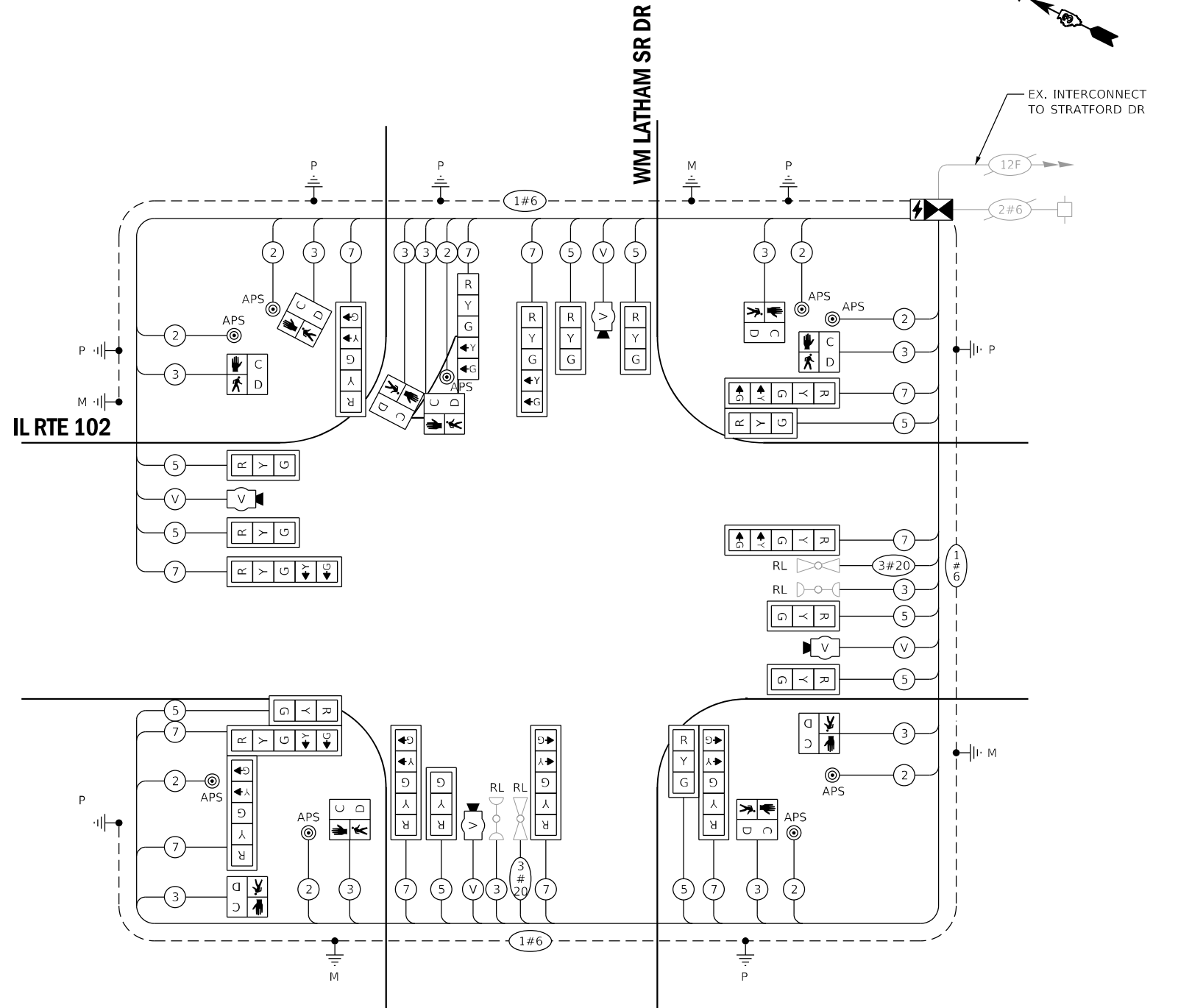
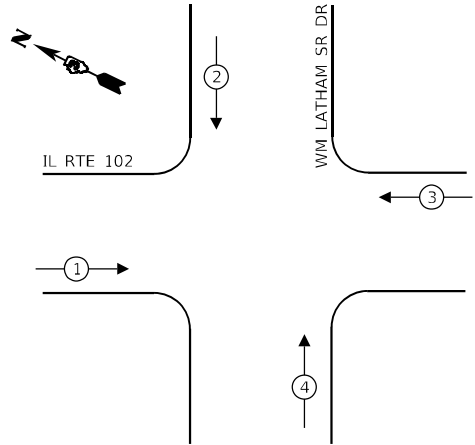
PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
IL RTE 102 AND WM LATHAM SR DR**

SCALE: SHEET 14 OF 36 SHEETS STA. TO STA.

F.A.P. RTE. 631	SECTION (109N.110N)RS-3.5W	COUNTY KANKAKEE	TOTAL SHEETS 148	SHEET NO. 117
			CONTRACT NO. 66L88	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNALS LEGEND

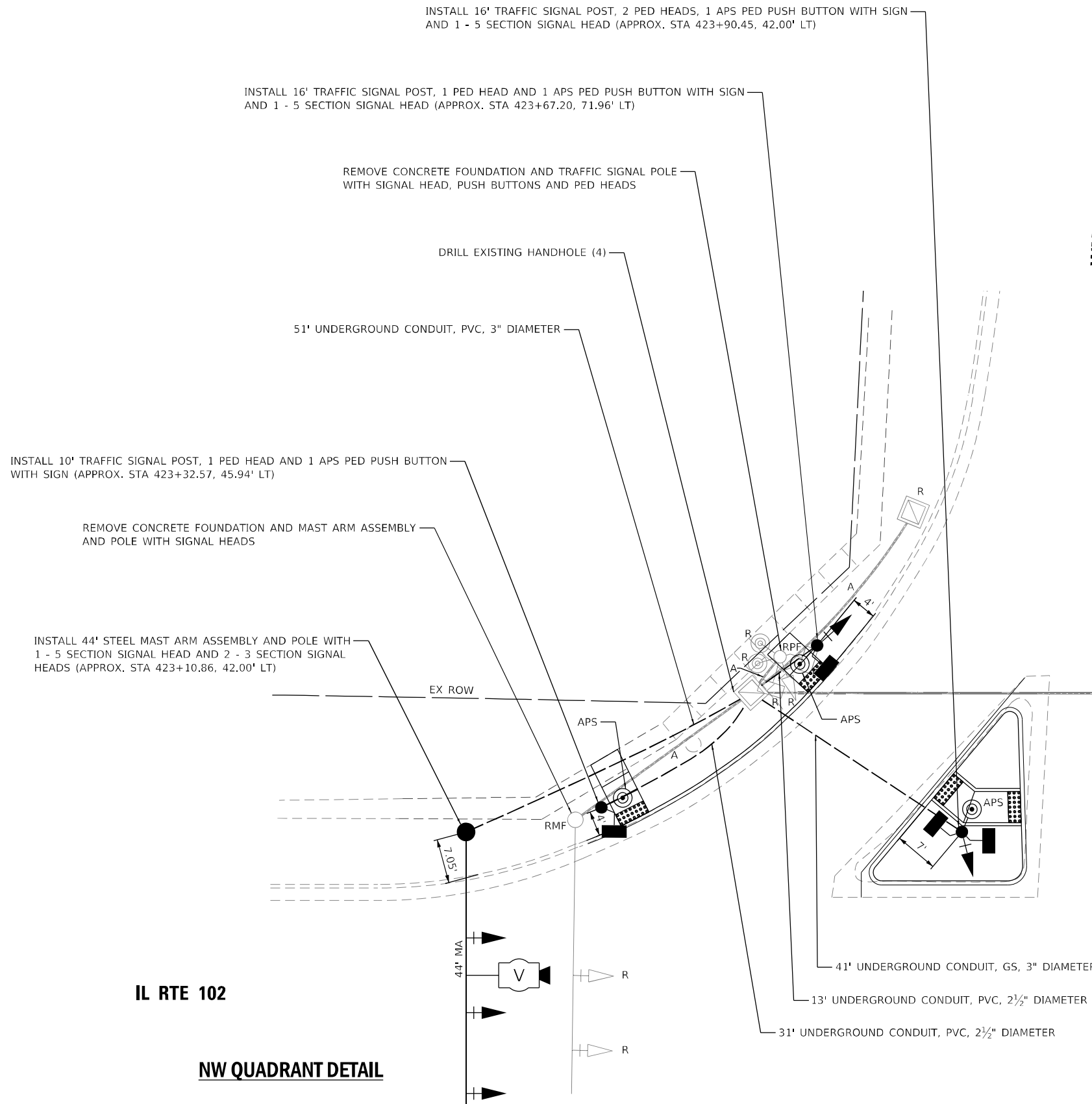
EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

BILL OF MATERIALS - NW QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	41
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	44
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	51
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	604
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	842
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	551
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	706
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	810
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	9
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1822
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
ROD AND CLEAN EXISTING CONDUIT	FOOT	135
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	3
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25

IL RTE 102

NW QUADRANT DETAIL



WM LATHAM SR DR

MODEL: LATHAM QUADRANT
FILE NAME: X:\PROJECTS\2022\102\102\17700\DOT_PTB_199-27_D312\01_IL102_Kankakee_WG#11033668\BICADD\DATA\CD\sheet\03366885\trc-splns.dgn



USER NAME = rgeorgescu	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND WM LATHAM SR DR - NW QUADRANT
SCALE: 1"=10' SHEET 15 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3.5W	KANKAKEE	148	118
CONTRACT NO. 66L88			ILLINOIS FED. AID PROJECT	

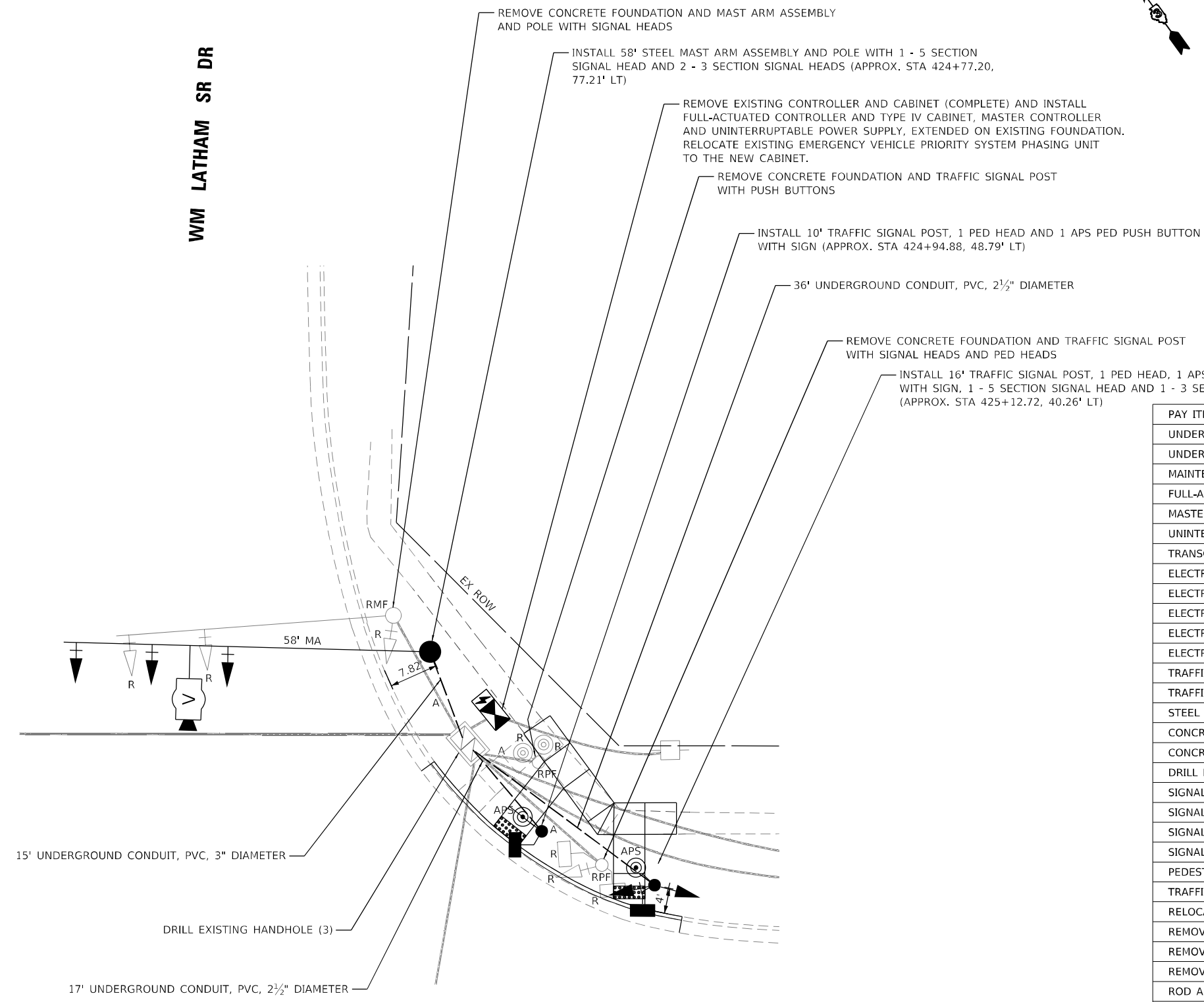
TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

BILL OF MATERIALS - NE QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	53
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	15
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
MASTER CONTROLLER	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	116
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	128
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	284.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	198
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	149
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	6
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	570
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
ROD AND CLEAN EXISTING CONDUIT	FOOT	5
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	L SUM	1
REMOVE EXISTING JUNCTION BOX	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25
PERMANENT TRAFFIC SIGNAL TIMING	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

WM LATHAM SR DR



IL RTE 102

NE QUADRANT DETAIL

MODEL: LATHAM - quadrant - NE
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 DATE: 3/11/2022



USER NAME = rgeorgescu	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

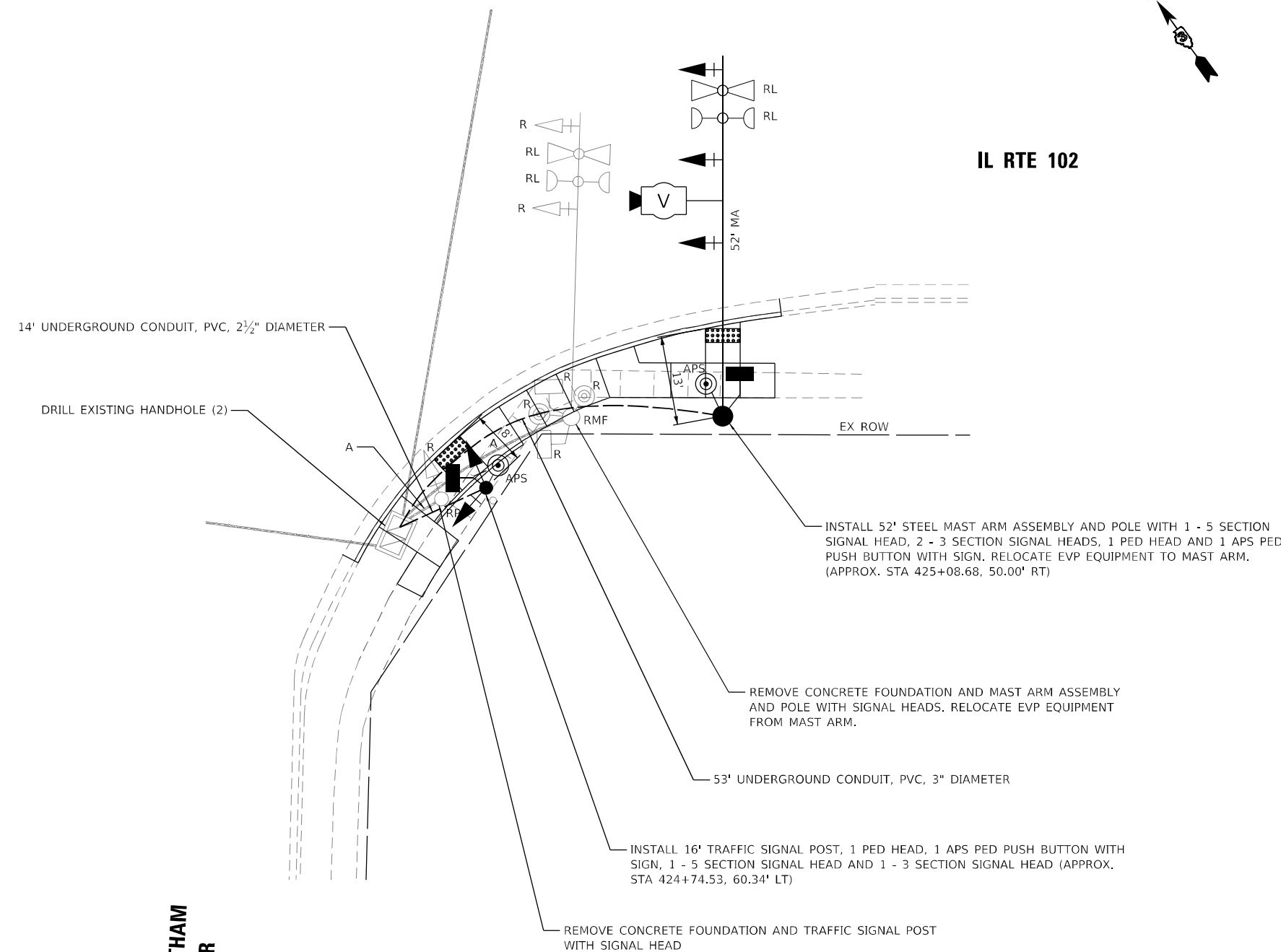
TRAFFIC SIGNAL MODERNIZATION PLAN	
IL RTE 102 AND WM LATHAM SR DR - NE QUADRANT	
SCALE: 1"=10'	SHEET 16 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	119
CONTRACT NO. 66L88			ILLINOIS FED. AID PROJECT	

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

IL RTE 102



WM LATHAM
SR DR

SE QUADRANT DETAIL

BILL OF MATERIALS - SE QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	14
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	53
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	412
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	715.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	743.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	490
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	403
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	0.5
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1950
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	291.5
ROD AND CLEAN EXISTING CONDUIT	FOOT	128
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25

MODEL: LATHAM - SE QUADRANT
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	DRAWN -	REVISED -
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PLOT DATE = 3/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND WM LATHAM SR DR - SE QUADRANT

SCALE: 1"=10' SHEET 17 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3.5W	KANKAKEE	148	120
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

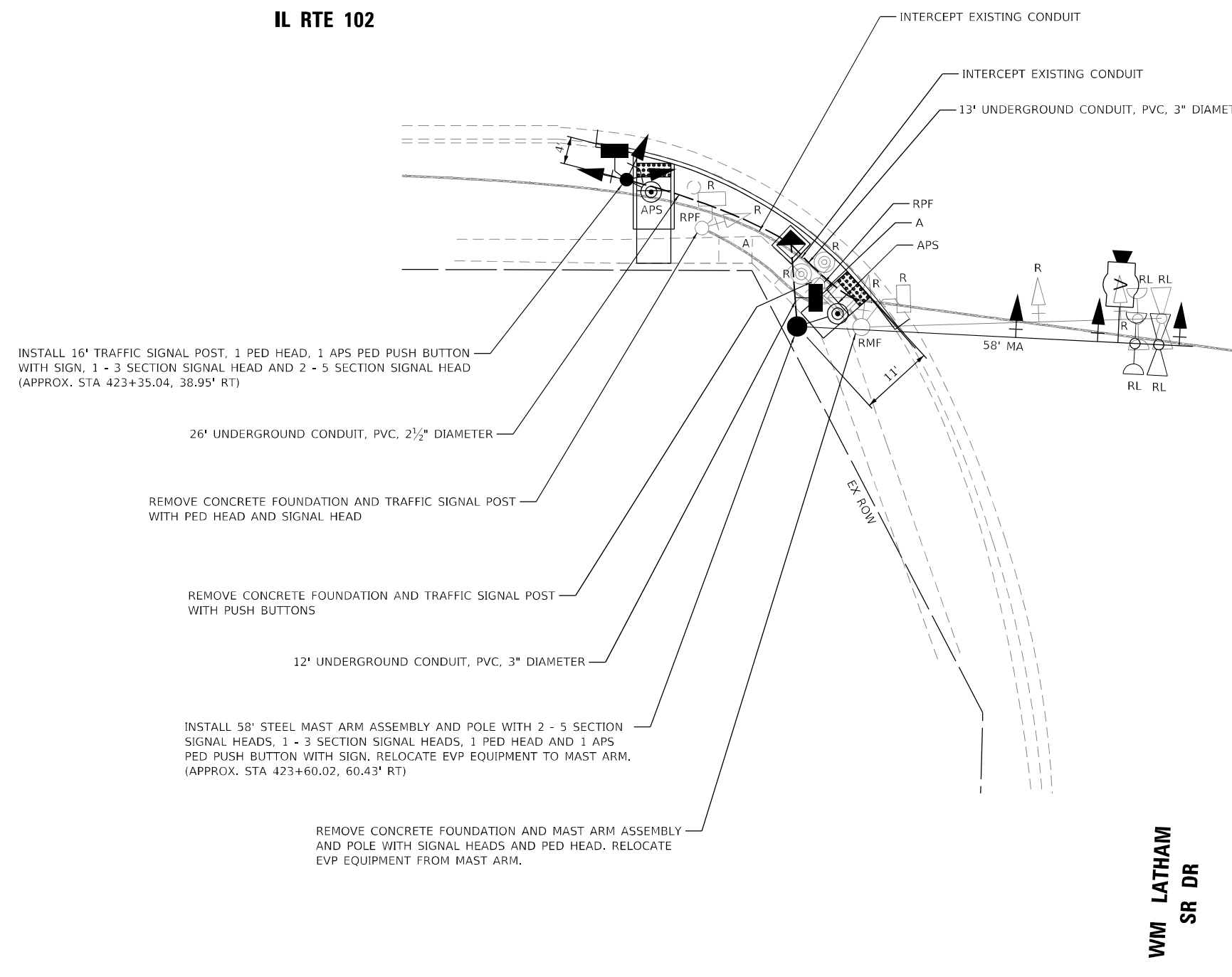
TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

BILL OF MATERIALS - SW QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	26
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	25
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	608
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	989
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	682
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1362
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	599
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3559
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	369
ROD AND CLEAN EXISTING CONDUIT	FOOT	93
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
INTERCEPT EXISTING CONDUIT	EACH	2
REMOVE EXISTING JUNCTION BOX	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25

SW QUADRANT DETAIL



INSTALL 16' TRAFFIC SIGNAL POST, 1 PED HEAD, 1 APS PED PUSH BUTTON WITH SIGN, 1 - 3 SECTION SIGNAL HEAD AND 2 - 5 SECTION SIGNAL HEAD (APPROX. STA 423+35.04, 38.95' RT)

26' UNDERGROUND CONDUIT, PVC, 2 1/2" DIAMETER

REMOVE CONCRETE FOUNDATION AND TRAFFIC SIGNAL POST WITH PED HEAD AND SIGNAL HEAD

REMOVE CONCRETE FOUNDATION AND TRAFFIC SIGNAL POST WITH PUSH BUTTONS

12' UNDERGROUND CONDUIT, PVC, 3" DIAMETER

INSTALL 58' STEEL MAST ARM ASSEMBLY AND POLE WITH 2 - 5 SECTION SIGNAL HEADS, 1 - 3 SECTION SIGNAL HEADS, 1 PED HEAD AND 1 APS PED PUSH BUTTON WITH SIGN. RELOCATE EVP EQUIPMENT TO MAST ARM. (APPROX. STA 423+60.02, 60.43' RT)

REMOVE CONCRETE FOUNDATION AND MAST ARM ASSEMBLY AND POLE WITH SIGNAL HEADS AND PED HEAD. RELOCATE EVP EQUIPMENT FROM MAST ARM.

WM LATHAM
SR DR

MODEL: LATHAM_SW.dwg DATE: 3/11/2022 USER: rgeorgescu



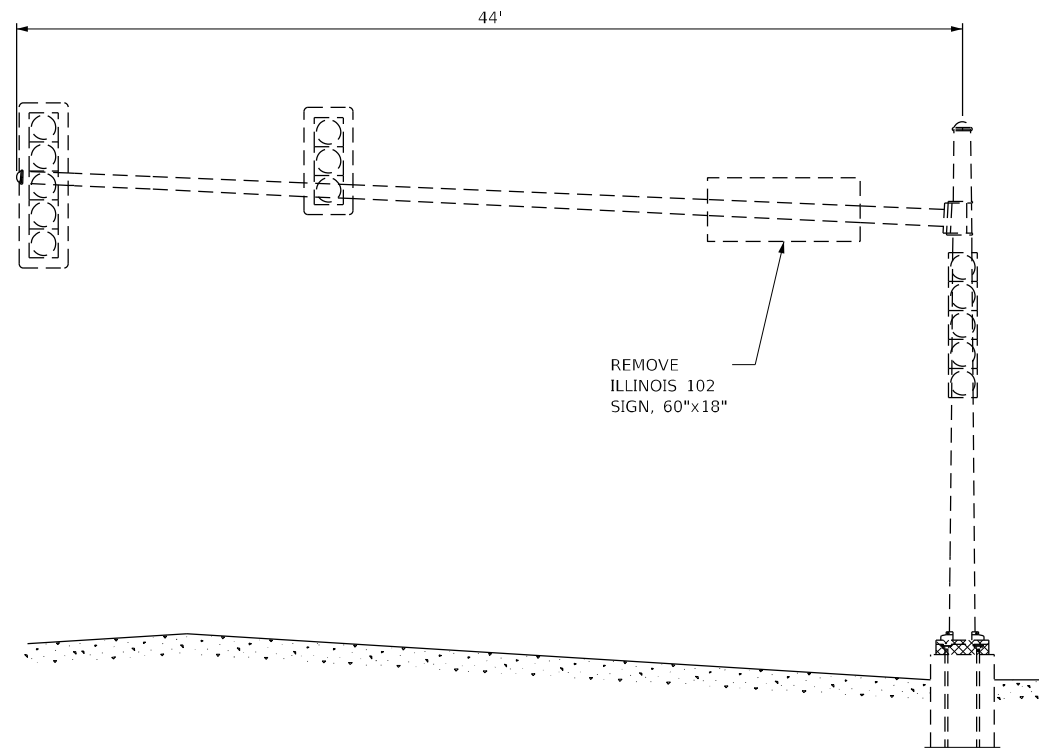
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

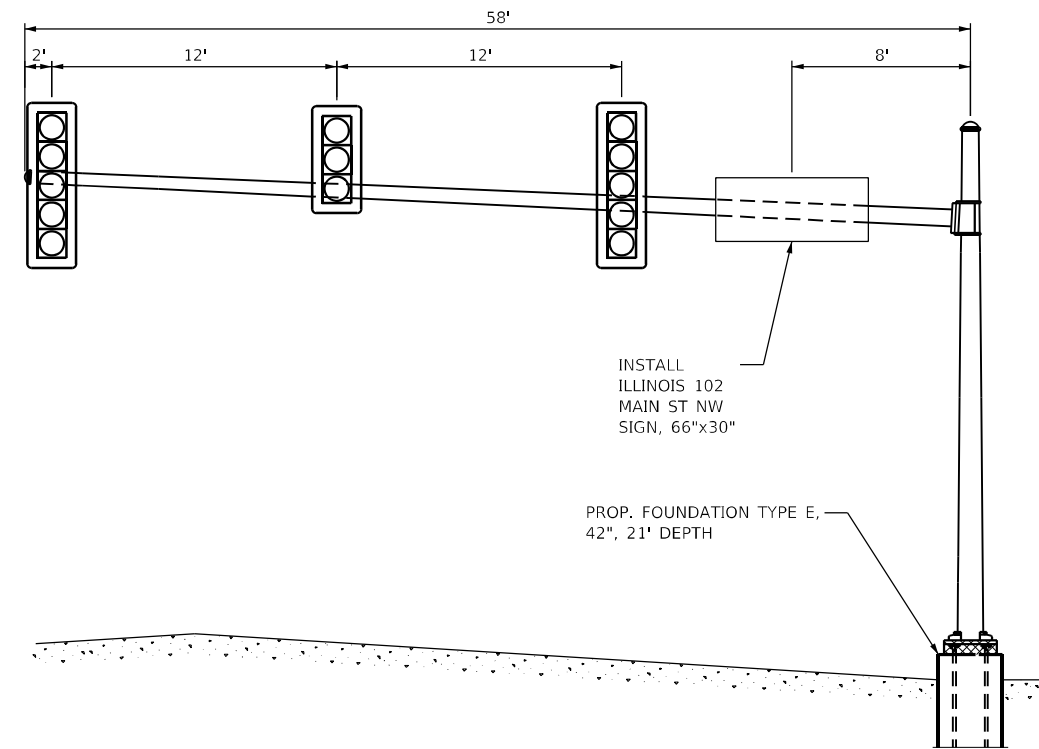
TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND WM LATHAM SR DR - SW QUADRANT

SCALE: 1"=10' SHEET 18 OF 36 SHEETS STA. TO STA.

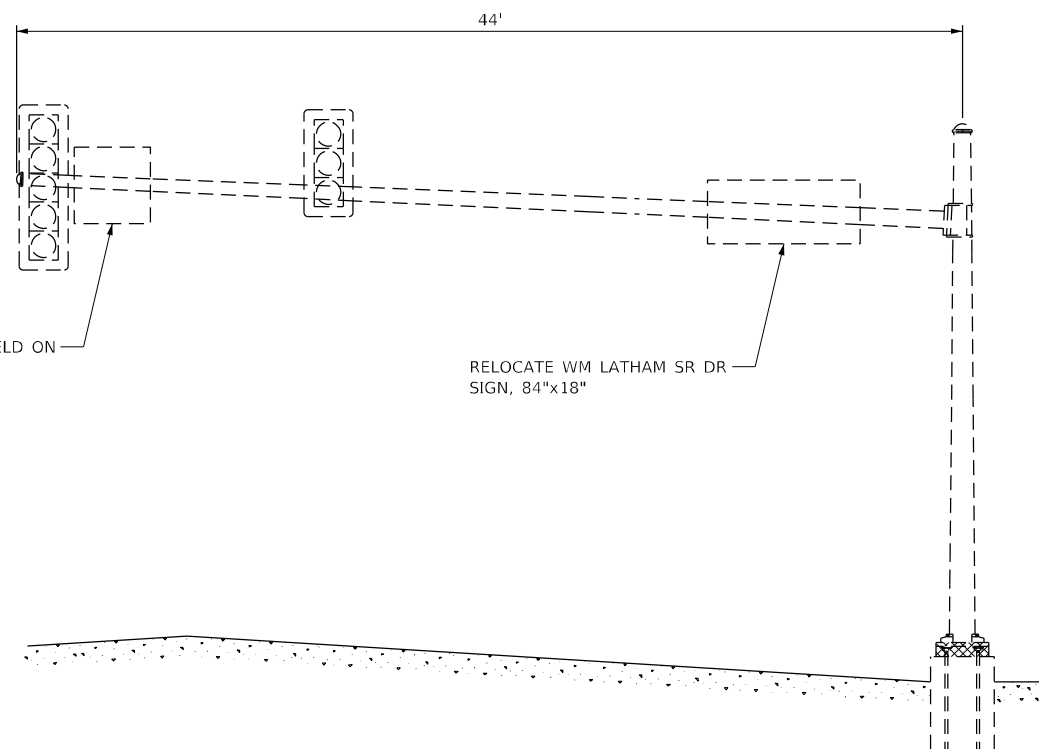
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CONTRACT NO. 66L88				
ILLINOIS		FED. AID PROJECT		



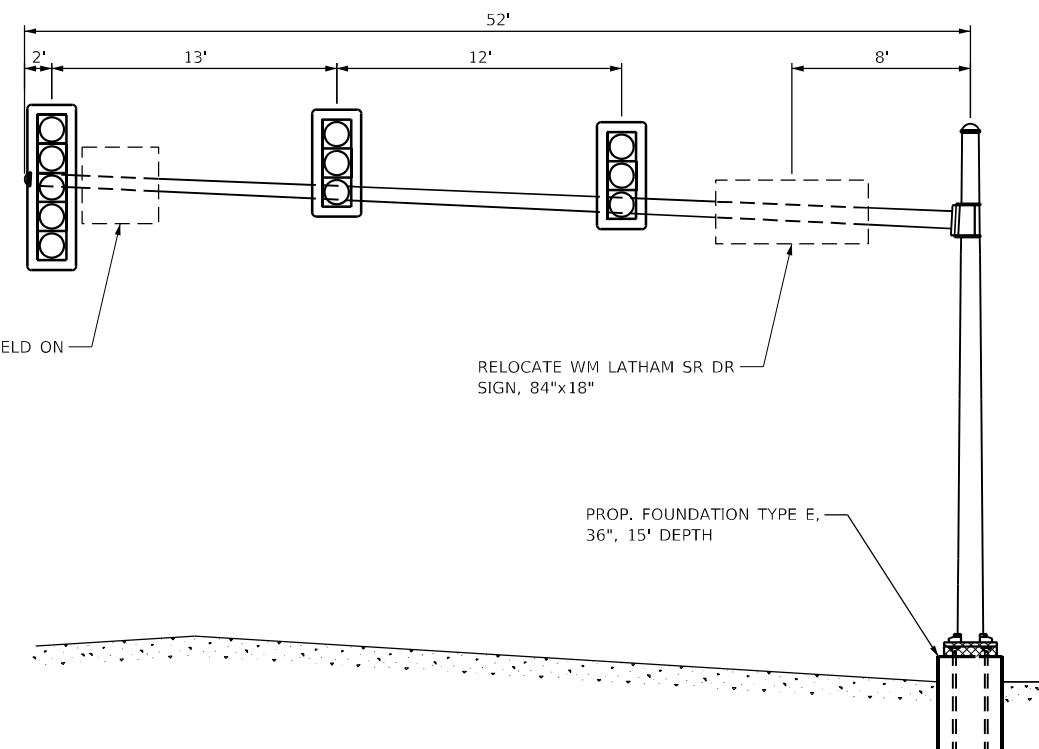
EXISTING MAST ARM ASSEMBLY (N.T.S.)
NORTHBOUND (NE QUADRANT)



PROPOSED MAST ARM ASSEMBLY (N.T.S.)
NORTHBOUND (NE QUADRANT)



EXISTING MAST ARM ASSEMBLY (N.T.S.)
WESTBOUND (NW QUADRANT)



PROPOSED MAST ARM ASSEMBLY (N.T.S.)
WESTBOUND (NW QUADRANT)

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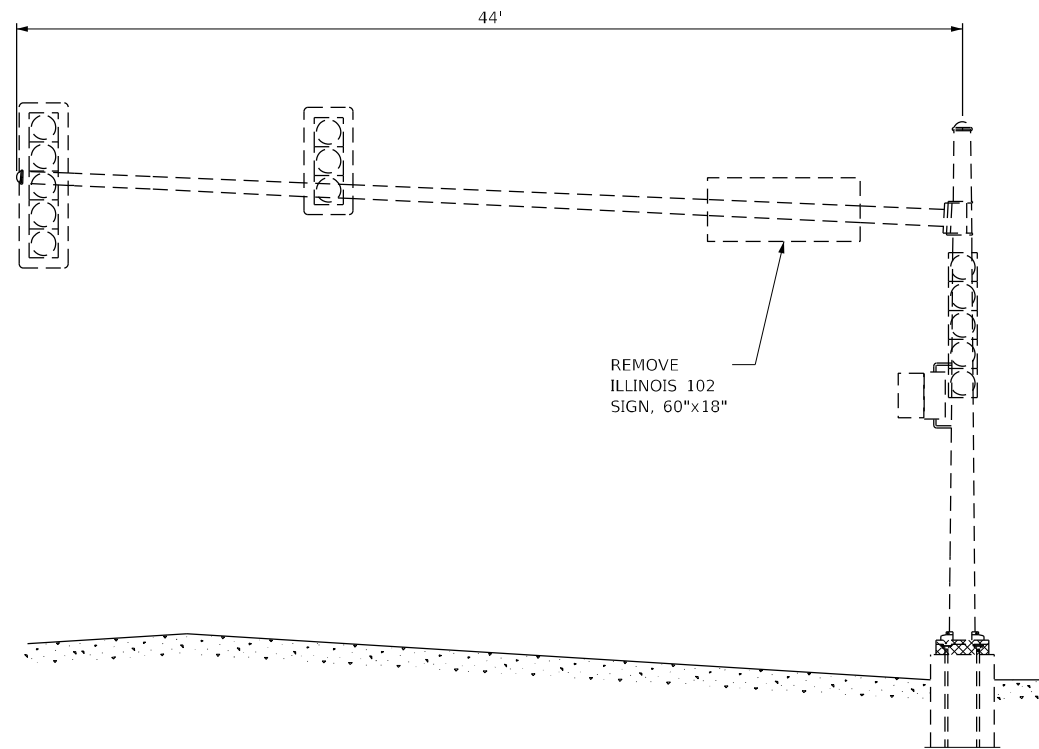
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

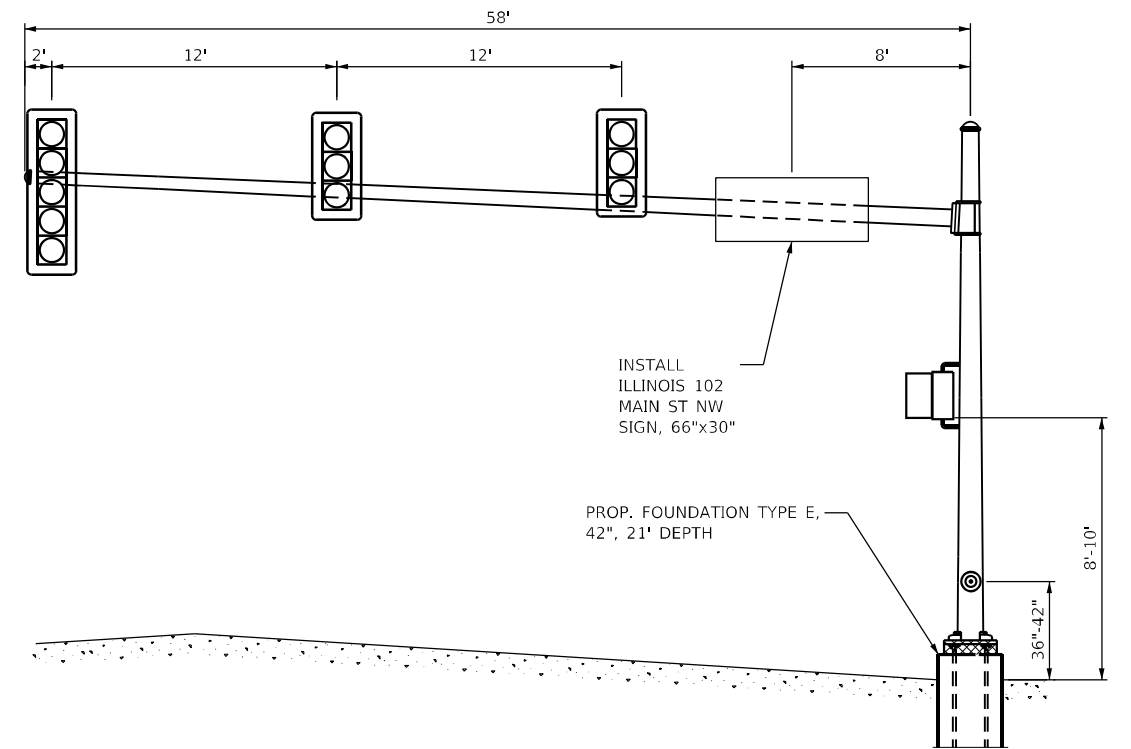
**MAST ARM DETAILS - IL RTE 102 AND WM LATHAM SR DR
NORTHBOUND AND WESTBOUND**

SCALE: SHEET 19 OF 36 SHEETS STA. TO STA.

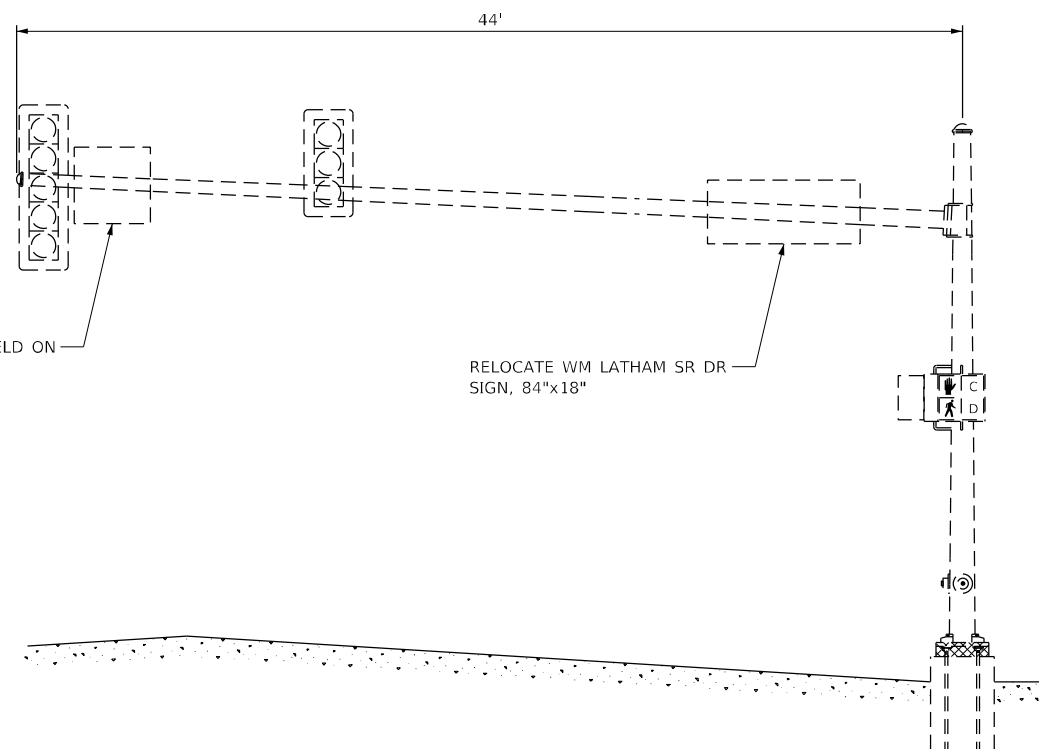
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	122
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



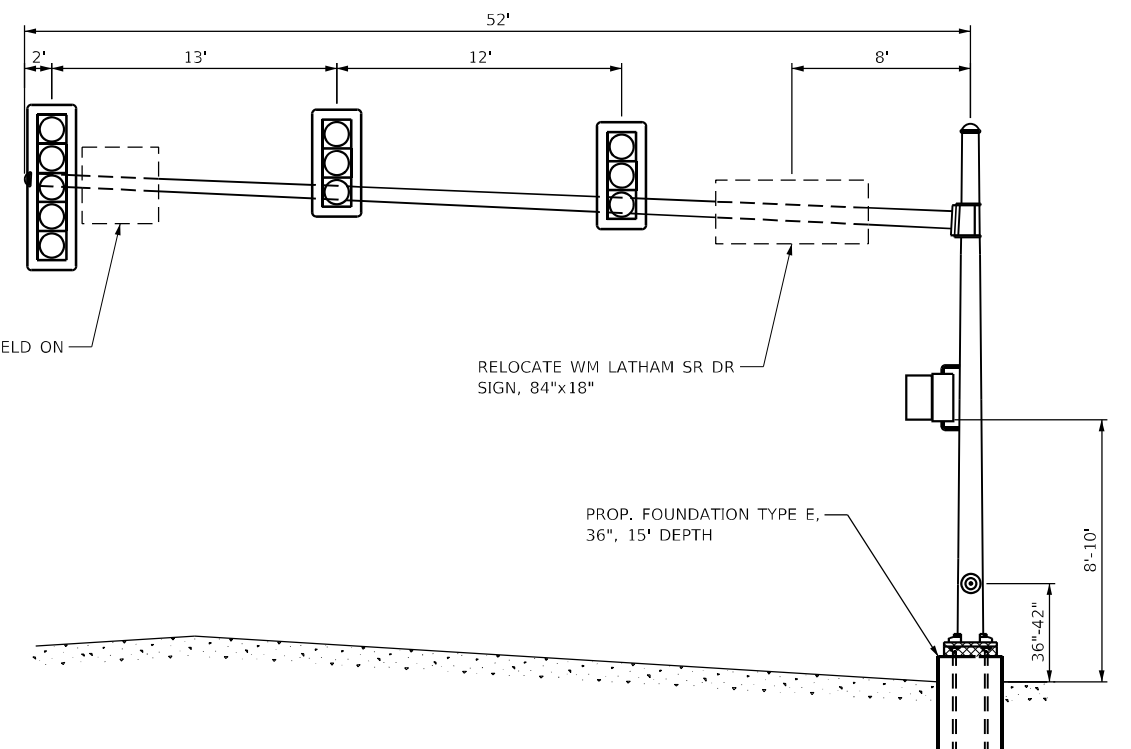
EXISTING MAST ARM ASSEMBLY (N.T.S.)
SOUTHBOUND (SW QUADRANT)



PROPOSED MAST ARM ASSEMBLY (N.T.S.)
SOUTHBOUND (SW QUADRANT)



EXISTING MAST ARM ASSEMBLY (N.T.S.)
EASTBOUND (SE QUADRANT)



PROPOSED MAST ARM ASSEMBLY (N.T.S.)
EASTBOUND (SE QUADRANT)

MODEL: I:\M\1\...
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PLOT DATE = 3/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM DETAILS - IL RTE 102 AND WM LATHAM SR DR
SOUTHBOUND AND EASTBOUND**

SCALE: SHEET 20 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	123
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 7/27/20

ROUTE IL 102 / Latham Dr. DESCRIPTION Traffic Signal Foundations - IL 102 (Main St.) & Latham Drive in Bourbonnais LOGGED BY Larry Myers

SECTION _____ LOCATION NW 1/4, SEC. 19, TWP. 31N, RNG. 12E, 3rd PM, Latitude 41.16046, Longitude -87.8889

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft
BORING NO. <u>01 (S.W. Quad.)</u> Station _____ Offset _____ Ground Surface Elev. <u>683.31</u> ft	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: First Encounter _____ Dry ft Upon Completion _____ Dry ft After _____ Hrs. _____ ft
Augered Black Silty Clay Loam, Brown Silty Clay Loam Fill					
	680.81				
Very Stiff to Hard Black Silty Clay Loam, Brown Silty Clay Loam Fill Sand (all Fill)		3			
		4	3.0-4.5	20	
		9	P		
	678.31	-5			
Very Stiff to Hard Brown & Gray Silty Clay Loam Till		3			
		3	4.0	20	
		3	P		
	676.31				
Hard Light Brown Silty Clay Loam Till		5			
		7	5.1	18	
		10	S		
	-10				
		7			
	672.31		6.6	16	
Hard Gray Silty Clay Till		9			
		13	S		
	-15				
		7			
		8	6.1	16	
		12	S		
	-15				
		5			
		6	4.8	17	
		7	S		
	666.81				
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)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 7/27/20

ROUTE IL 102 / Latham Dr. DESCRIPTION Traffic Signal Foundations - IL 102 (Main St.) & Latham Drive in Bourbonnais LOGGED BY Larry Myers

SECTION _____ LOCATION NW 1/4, SEC. 19, TWP. 31N, RNG. 12E, 3rd PM, Latitude 41.16054, Longitude -87.88816

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft
BORING NO. <u>02 (N.E. Quad.)</u> Station _____ Offset _____ Ground Surface Elev. <u>684.16</u> ft	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: First Encounter _____ Dry ft Upon Completion _____ Dry ft After _____ Hrs. _____ ft
Augered Black & Brown Silty Clay Loam Fill					
	681.66				
Soft Brown Loamy Sand & Silty Clay Loam - Fill		2			
		2		23	
		1			
	679.66				
Hard Light Brown Silty Clay Loam Till		-5			
		4			
		5	4.9	18	
		7	S		
	-10				
		5			
		7	5.8	18	
		10	S		
	-10				
		5			
	672.16		6.1	18	
Hard Gray Silty Clay Till		7			
		11	S		
	-15				
		5			
		7	5.1	18	
		9	S		
	-15				
		4			
		5	4.7	18	
		7	S		
	667.66				
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)

MODEL: D:\p\h\... FILE NAME: Z:\p\o\sect\02\12\12\12\17\00 IDOT_PIB_1994-27_D32\101_IL102_Kankakee_IL102\10356688R\CADD\DATA\CAD\sheet\03566888-sht-01_boring_log.dgn

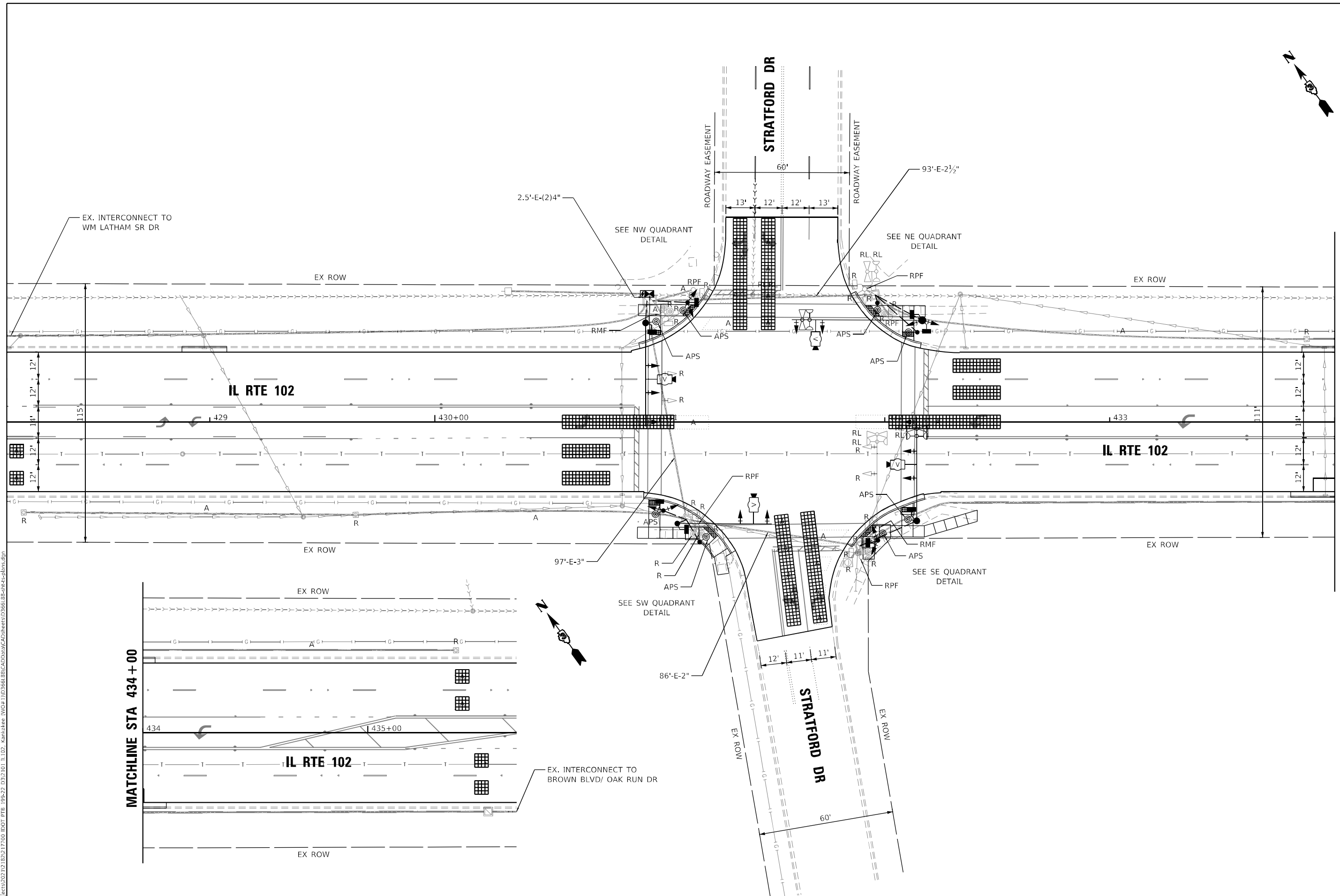


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PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 102 AND WM LATHAM SR DR	
SOIL BORING LOG	
SCALE:	SHEET 21 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	124
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 434 + 00

MATCHLINE STA 434 + 00

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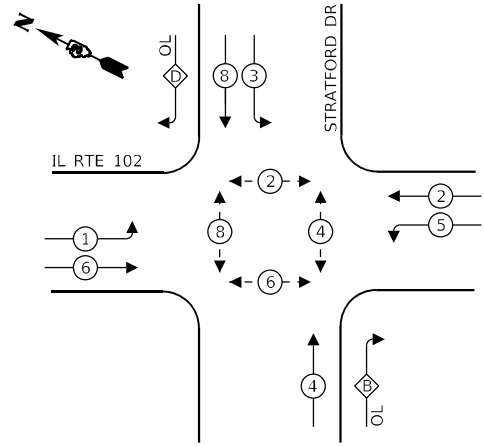
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PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 102 AND STRATFORD DR		
SCALE: 1"=20'	SHEET 22 OF 36 SHEETS	STA. TO STA.

F.A.P. RTE. 631	SECTION (109N,110N)RS-3,5W	COUNTY KANKAKEE	TOTAL SHEETS 148	SHEET NO. 125
CONTRACT NO. 66L88			ILLINOIS FED. AID PROJECT	

EXISTING CONTROLLER SEQUENCE



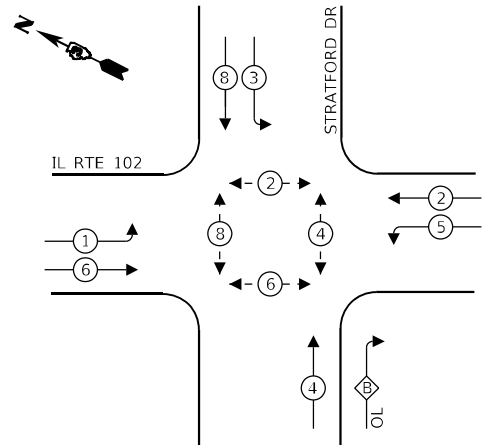
LEGEND:

- ← ⊛ → PROTECTED PHASE
- ← ⊛ - - ⊛ PROTECTED/PERMITTED PHASE
- ← ⊛ ⊛ → PEDESTRIAN PHASE
- ← ⊛ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

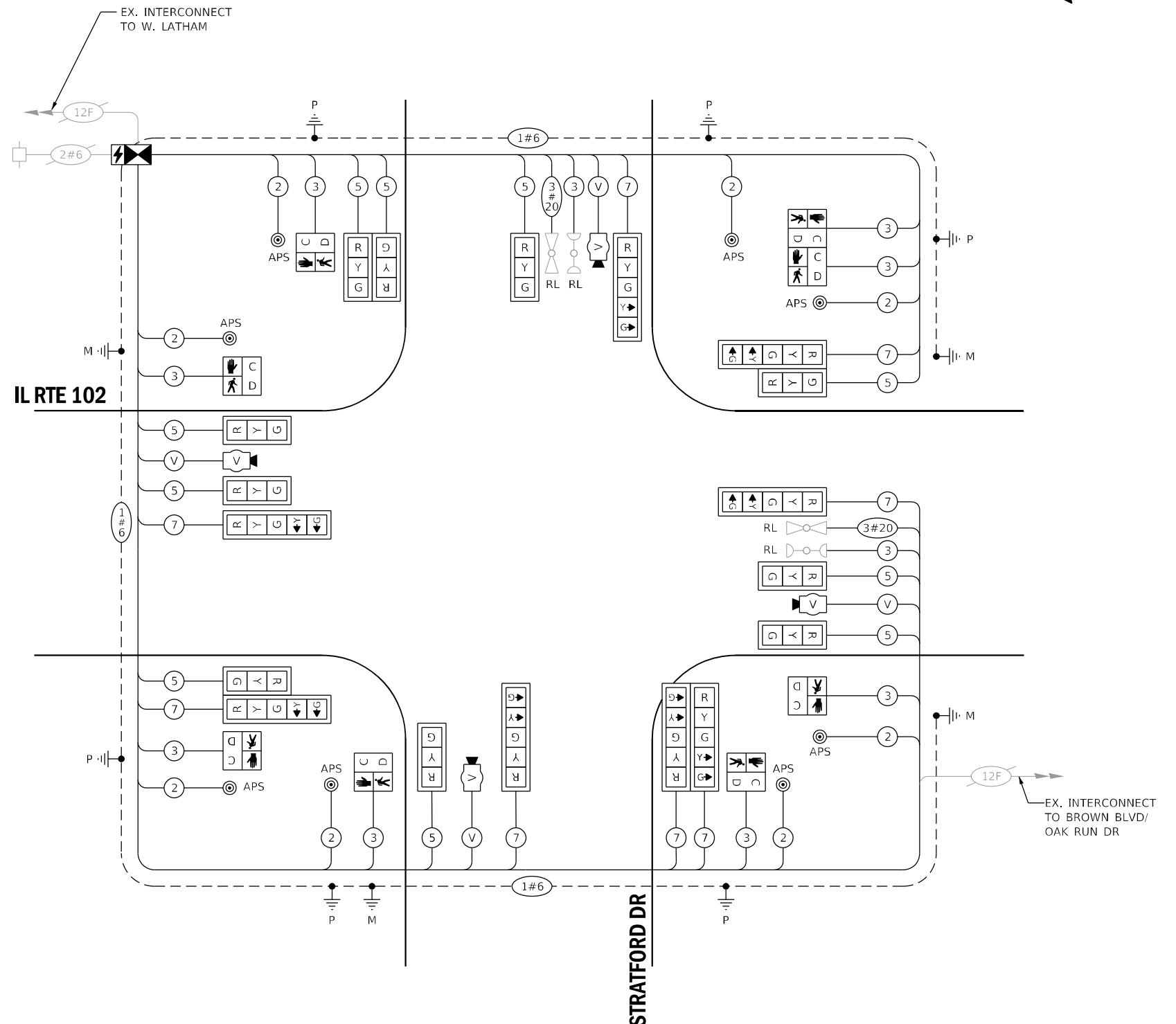
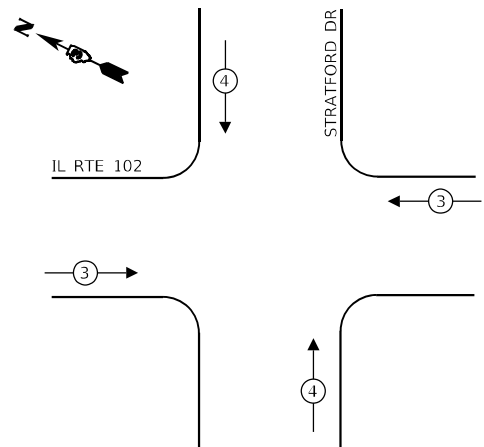
PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

MODEL: IL RTE 102 - Stratford Dr
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USER NAME = rgeorgescu
DESIGNED -
DRAWN -
PLOT SCALE = 40,0000 * / in.
CHECKED -
PLOT DATE = 3/11/2022

DESIGNED -
DRAWN -
CHECKED -
DATE -

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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
IL RTE 102 AND STRATFORD DR**

SCALE: SHEET 23 OF 36 SHEETS STA. TO STA.

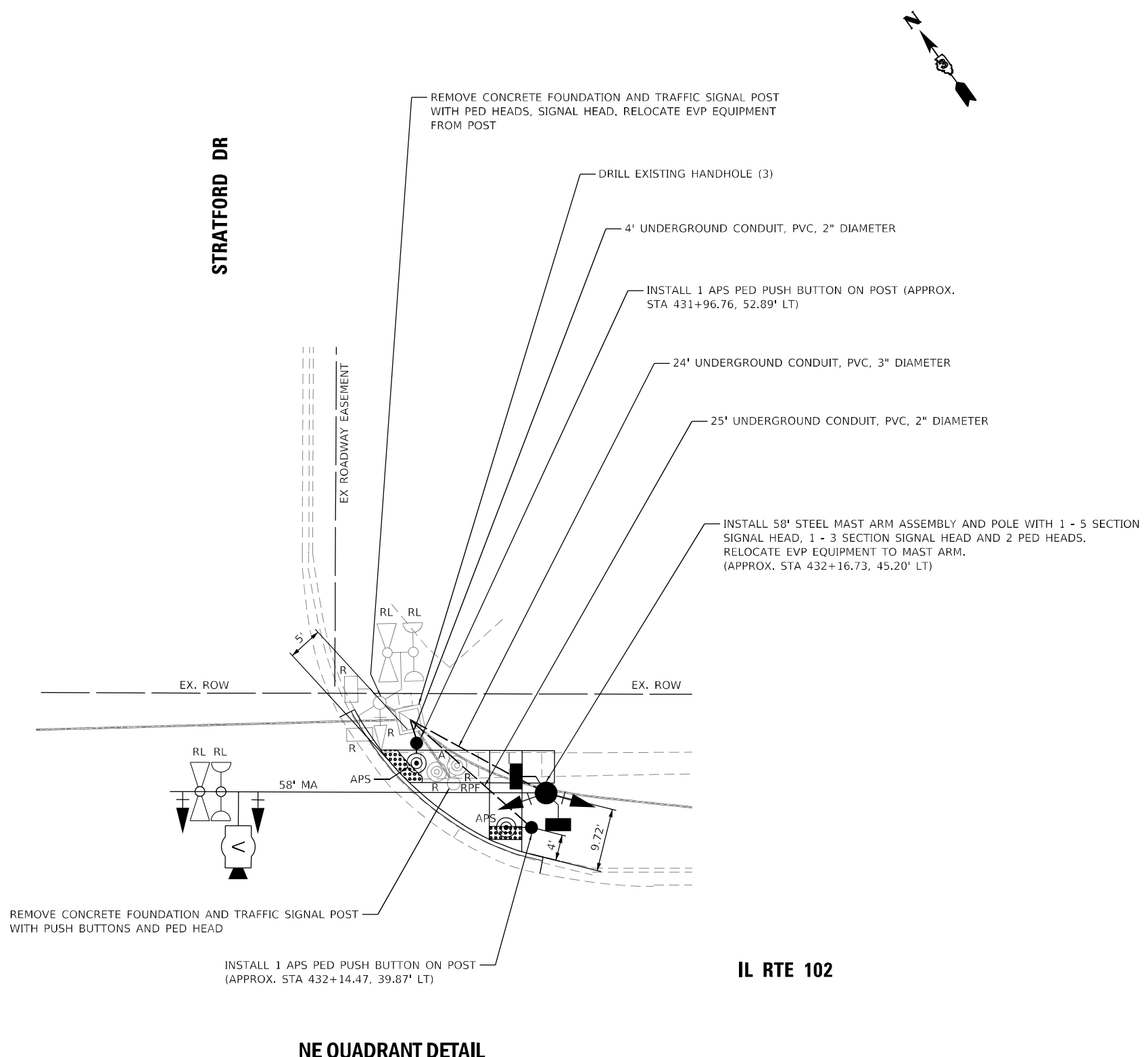
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3.5W	KANKAKEE	148	126
				CONTRACT NO. 66L88
		ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

BILL OF MATERIALS - NE QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	29
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	24
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	306
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	543
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	390
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	379
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	426.5
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	6
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1306
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	225
ROD AND CLEAN EXISTING CONDUIT	FOOT	93
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
REMOVE EXISTING JUNCTION BOX	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25



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USER NAME = rgeorgescu	DESIGNED -	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 3/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND STRATFORD DR - NE QUADRANT

SCALE: 1"=10' SHEET 25 OF 36 SHEETS STA. TO STA.

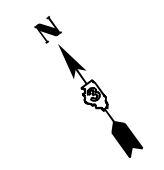
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	128
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

BILL OF MATERIALS - SE QUADRANT

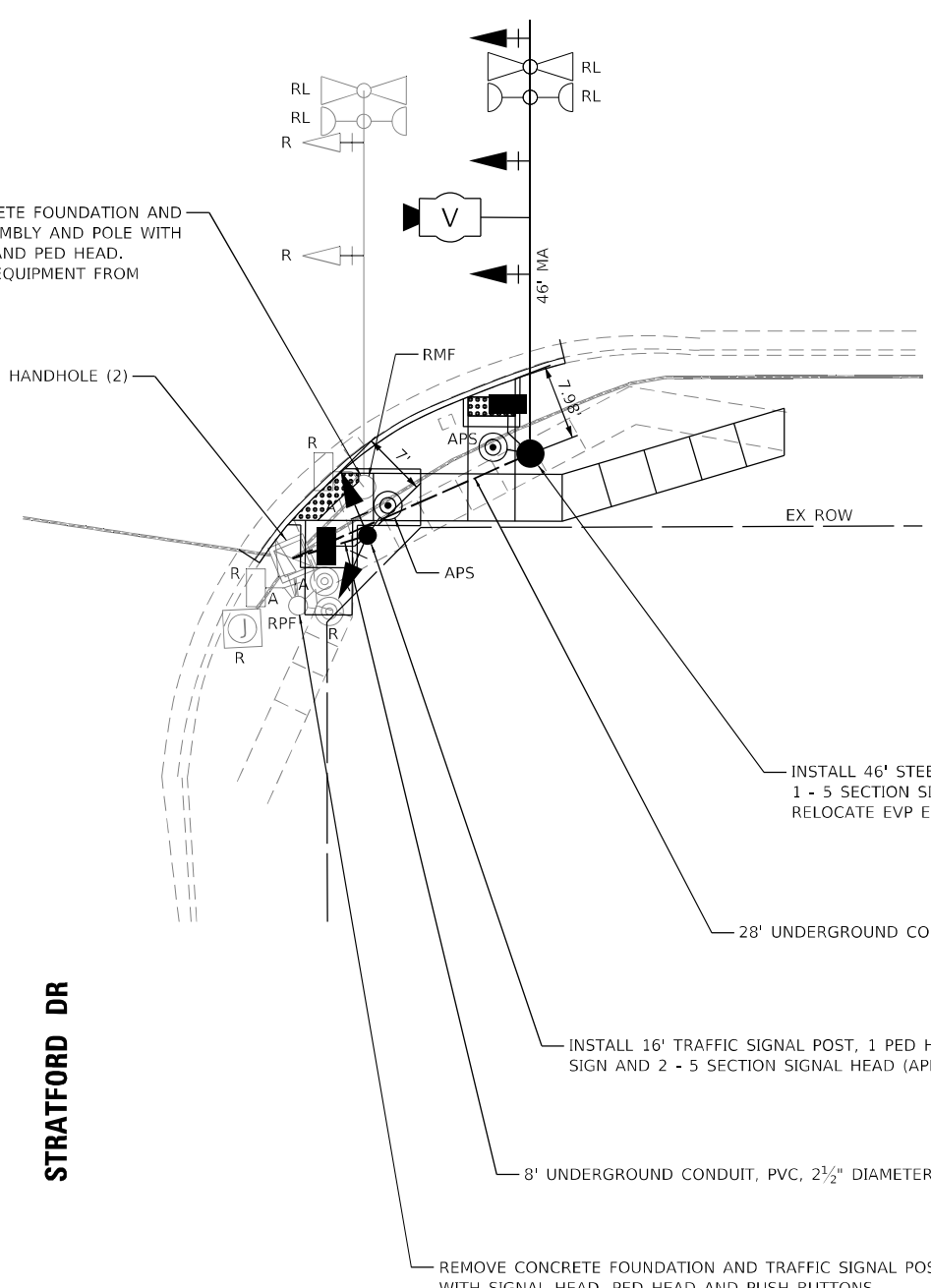
PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	8
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	28
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	487
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	812.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	591
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	824.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	478
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2492
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	313.5
ROD AND CLEAN EXISTING CONDUIT	FOOT	86
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
REMOVE EXISTING JUNCTION BOX	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25



IL RTE 102

REMOVE CONCRETE FOUNDATION AND MAST ARM ASSEMBLY AND POLE WITH SIGNAL HEADS AND PED HEAD. RELOCATE EVP EQUIPMENT FROM MAST ARM.

DRILL EXISTING HANDHOLE (2)



INSTALL 46' STEEL MAST ARM ASSEMBLY AND POLE WITH 2 - 3 SECTION SIGNAL HEADS, 1 - 5 SECTION SIGNAL HEAD, 1 PED HEAD AND 1 APS PED PUSH BUTTON WITH SIGN. RELOCATE EVP EQUIPMENT TO MAST ARM (APPROX. STA 432+14.23, 44.00' RT)

28' UNDERGROUND CONDUIT, PVC, 3" DIAMETER

INSTALL 16' TRAFFIC SIGNAL POST, 1 PED HEAD, 1 APS PED PUSH BUTTON WITH SIGN AND 2 - 5 SECTION SIGNAL HEAD (APPROX. STA 431+96.97, 52.66' RT)

8' UNDERGROUND CONDUIT, PVC, 2 1/2" DIAMETER

REMOVE CONCRETE FOUNDATION AND TRAFFIC SIGNAL POST WITH SIGNAL HEAD, PED HEAD AND PUSH BUTTONS

SE QUADRANT DETAIL

STRATFORD DR

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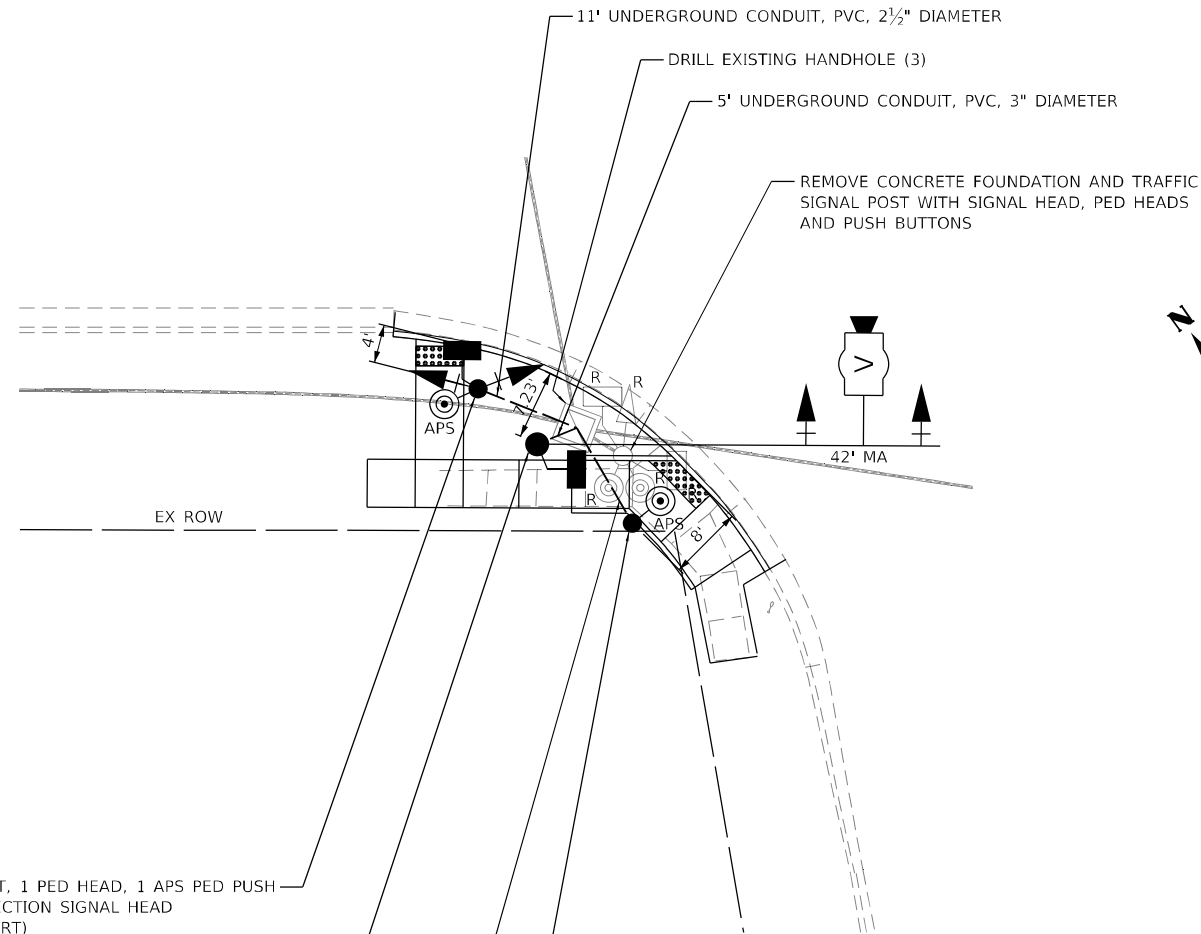
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PLOT DATE = 3/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND STRATFORD DR - SE QUADRANT
SCALE: 1"=10' SHEET 26 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	129
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

IL RTE 102



INSTALL 16' TRAFFIC SIGNAL POST, 1 PED HEAD, 1 APS PED PUSH BUTTON WITH SIGN AND 1 - 5 SECTION SIGNAL HEAD (APPROX. STA 431+01.61, 39.43' RT)

INSTALL 42' STEEL MAST ARM ASSEMBLY AND POLE WITH 1 - 5 SECTION SIGNAL HEAD, 1 - 3 SECTION SIGNAL HEAD AND 1 PED HEAD (APPROX. STA 431+07.77, 45.20' RT)

12' UNDERGROUND CONDUIT, PVC, 2" DIAMETER

INSTALL 1 APS PED PUSH BUTTON ON POST (APPROX. STA 431+17.69, 53.43' RT)

SW QUADRANT DETAIL

STRATFORD DR

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

BILL OF MATERIALS - SW QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	12
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	11
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	5
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	289
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	294
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	338
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	350
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	413.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE 1	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	6
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1040
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ROD AND CLEAN EXISTING CONDUIT	FOOT	97
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
REMOVE EXISTING JUNCTION BOX	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25

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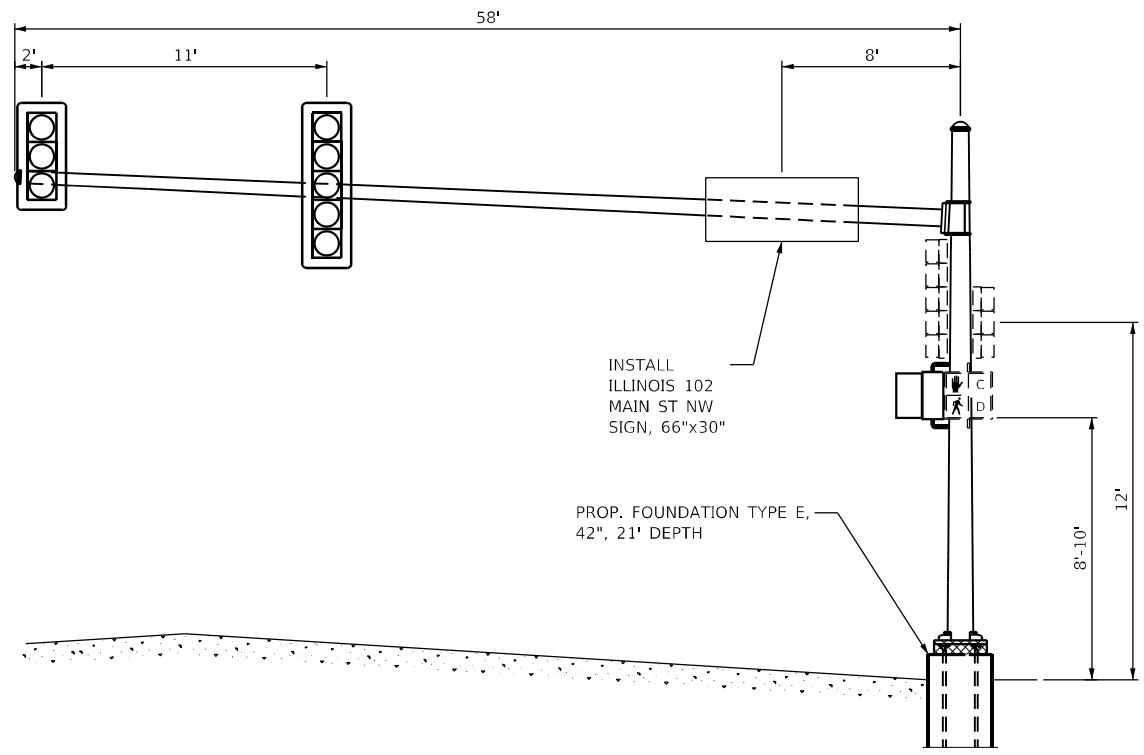
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PLOT DATE = 3/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND STRATFORD DR - SW QUADRANT

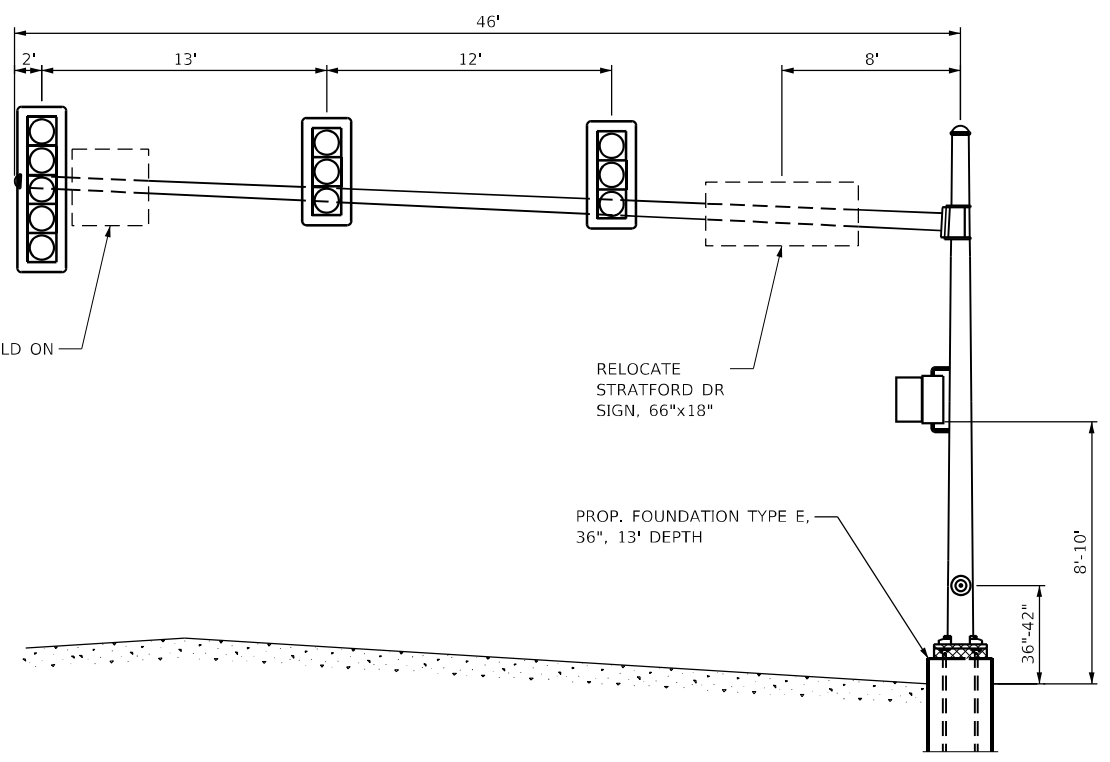
SCALE: 1"=10' SHEET 27 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	130
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



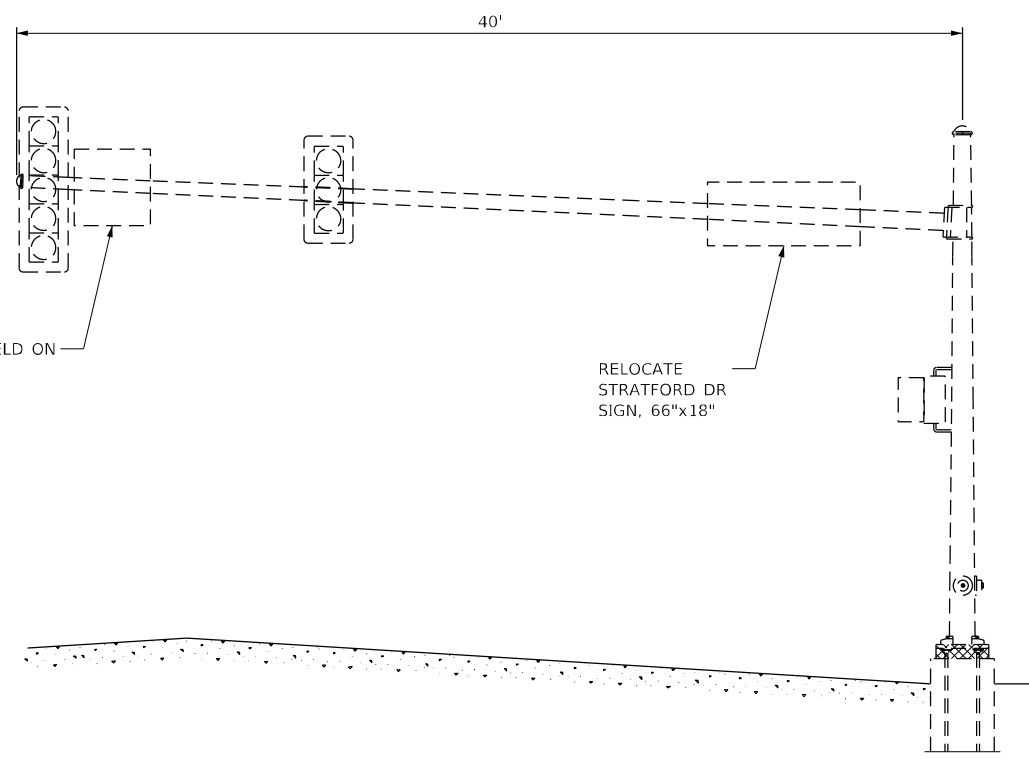
PROPOSED MAST ARM ASSEMBLY (N.T.S.)

NORTHBOUND (NE QUADRANT)



PROPOSED MAST ARM ASSEMBLY (N.T.S.)

WESTBOUND (NW QUADRANT)



EXISTING MAST ARM ASSEMBLY (N.T.S.)

WESTBOUND (NW QUADRANT)

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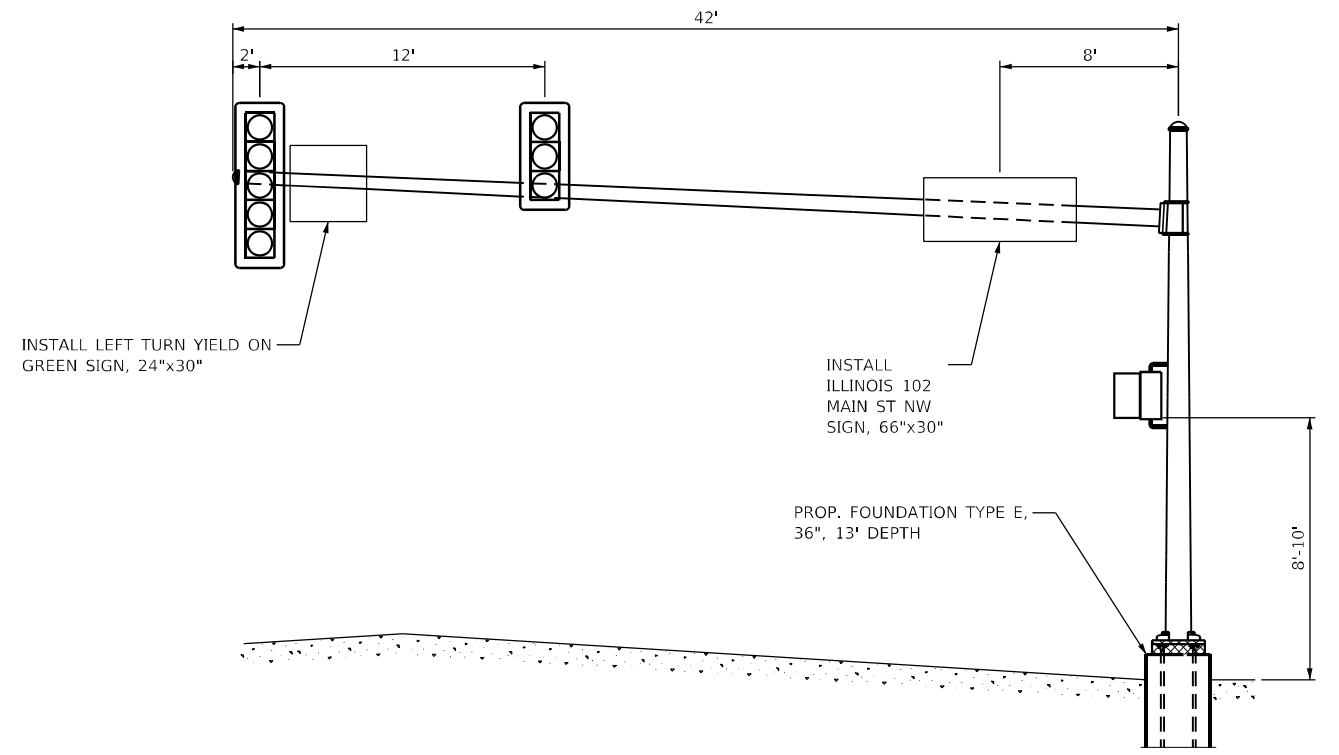


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	DATE -	REVISED -

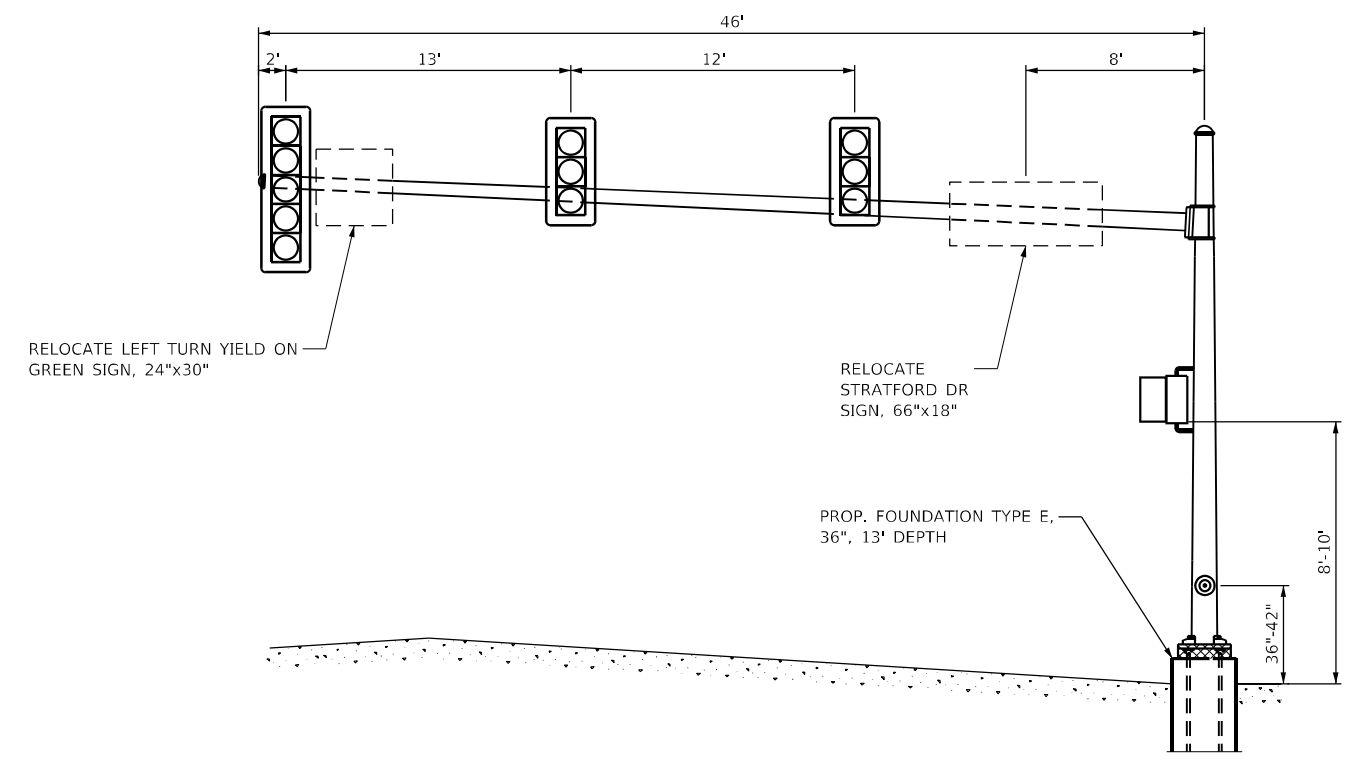
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAST ARM DETAILS - IL RTE 102 AND STRATFORD DR NORTHBOUND AND WESTBOUND			
SCALE:	SHEET 28	OF 36 SHEETS	STA. TO STA.

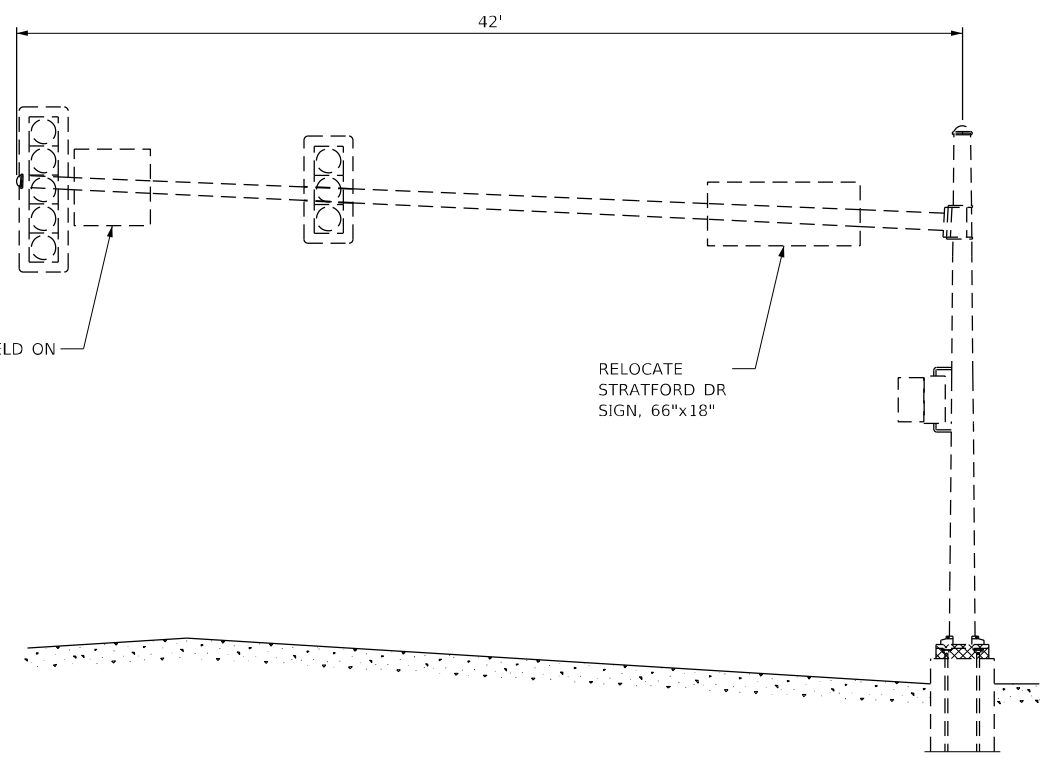
F.A.P. RTE. 631	SECTION (109N,110N)RS-3,5W	COUNTY KANKAKEE	TOTAL SHEETS 148	SHEET NO. 131
CONTRACT NO. 66L88			ILLINOIS FED. AID PROJECT	



PROPOSED MAST ARM ASSEMBLY (N.T.S.)
SOUTHBOUND (SW QUADRANT)



PROPOSED MAST ARM ASSEMBLY (N.T.S.)
EASTBOUND (SE QUADRANT)



EXISTING MAST ARM ASSEMBLY (N.T.S.)
EASTBOUND (SE QUADRANT)

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USER NAME = rgeorgescu	DESIGNED -	REVISED -
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PLOT DATE = 3/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM DETAILS - IL RTE 102 AND STRATFORD DR
SOUTHBOUND AND EASTBOUND**

SCALE: SHEET 29 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	132
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 7/28/20

ROUTE IL 102 / Stratford Drive DESCRIPTION Traffic Signal Foundations - IL 102 (Main St.) & Stratford Drive in Bourbonnais LOGGED BY Larry Myers

SECTION _____ LOCATION NW 1/4, SEC. 19, TWP. 31N, RNG. 12E, 3rd PM, Latitude 41.15934, Longitude -87.88608

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station _____
BORING NO. 01 (N.E. Quad.)
Station _____
Offset _____
Ground Surface Elev. 681.04 ft (ft) (/6") (tsf) (%)

SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UNCONFINED COMPRESSIVE STRENGTH (tsf)	MOISTURE (%)	DEPTH (ft)	BLOW COUNT (/6")	UNCONFINED COMPRESSIVE STRENGTH (tsf)	MOISTURE (%)
Augered Black Silty Clay Loam Topsoil Fill, Brown Silty Clay Loam	0 - 678.54				4	5	4.8	16
Hard Gray Silty Clay Till (continued)	678.54 - 674.04	3	4.0	20	5	7	S	
Hard Brown & Gray Silty Clay Loam Till	674.04 - 674.04	5			6	5.4	18	
Hard Light Brown Silty Clay Loam Till	674.04 - 667.04	5	6.4	17	6	6.4	17	
Hard Gray Silty Clay Till	667.04 - 667.04	7	6.4	19	7	6.4	19	
	667.04 - 667.04	4	5.1	17	5	7	S	
	667.04 - 667.04	4	4.8	16	6	7	S	
	667.04 - 667.04				7			

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)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 7/28/20

ROUTE IL 102 / Stratford Drive DESCRIPTION Traffic Signal Foundations - IL 102 (Main St.) & Stratford Drive in Bourbonnais LOGGED BY Larry Myers

SECTION _____ LOCATION NW 1/4, SEC. 19, TWP. 31N, RNG. 12E, 3rd PM, Latitude 41.15911, Longitude -87.88661

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station _____
BORING NO. 02 (S.W. Quad.)
Station _____
Offset _____
Ground Surface Elev. 678.71 ft (ft) (/6") (tsf) (%)

SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UNCONFINED COMPRESSIVE STRENGTH (tsf)	MOISTURE (%)	DEPTH (ft)	BLOW COUNT (/6")	UNCONFINED COMPRESSIVE STRENGTH (tsf)	MOISTURE (%)
Augered Black Silty Clay Loam Fill, Brown Silty Clay Loam Fill	0 - 676.21				5	8	5.6	16
Hard Gray Silty Clay Till (continued)	676.21 - 674.21	4	4.0	28	6	9	S	
Hard Black Silty Clay Loam & Brown Silty Clay Loam Fill	674.21 - 674.21	4	4.0	28	7	P		
Very Stiff to Hard Brown Silty Clay Loam Till	674.21 - 671.71	4	4.0	25	5	6	P	
Hard Light Brown Silty Clay Loam Till	671.71 - 666.71	5	4.4	21	4	7	S	
Hard Gray Silty Clay Till	666.71 - 666.71	5	4.6	19	5	9	S	
	666.71 - 666.71	7	5.4	17	7	9	S	
	666.71 - 666.71	5			5			
	666.71 - 666.71	7	5.4	16	7	9	S	

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: D:\p\dlz\... FILE NAME: Z:\p\dlz\... SOIL BORING LOG.DWG



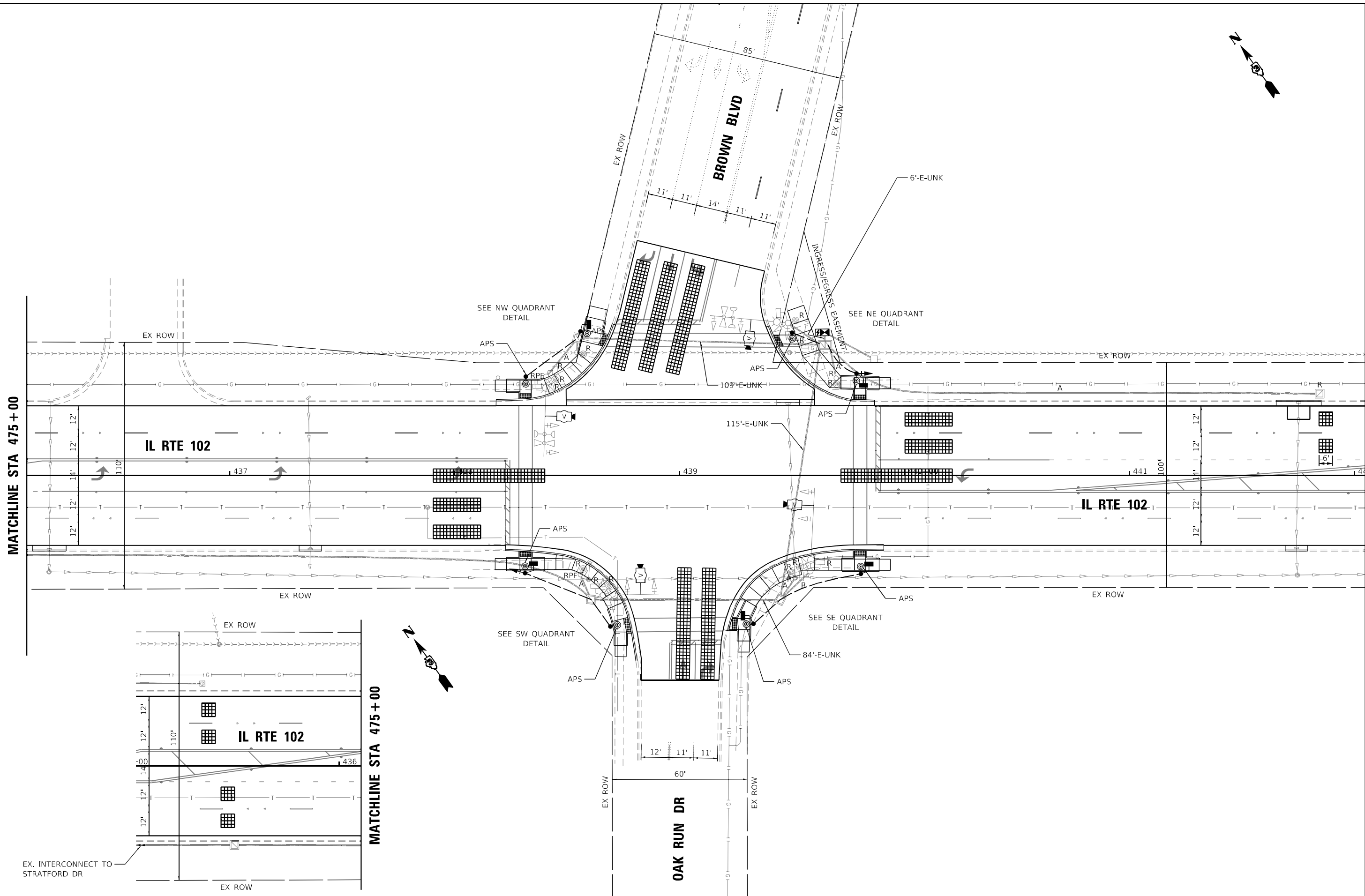
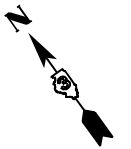
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PLOT DATE = 3/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 102 AND STRATFORD DR
SOIL BORING LOG**

SCALE: SHEET 30 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	133
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



MODEL: Oak Run Brown
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	DATE -	REVISED -

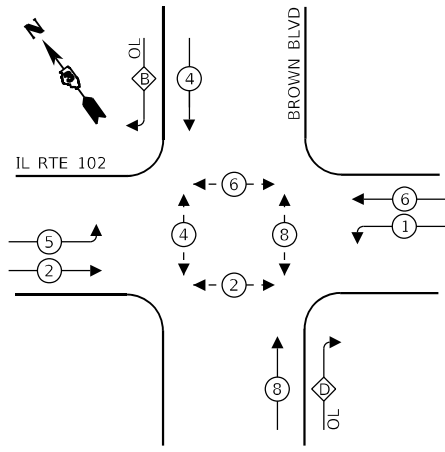
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND BROWN BLVD /OAK RUN DR

SCALE: 1"=20' SHEET 31 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	134
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



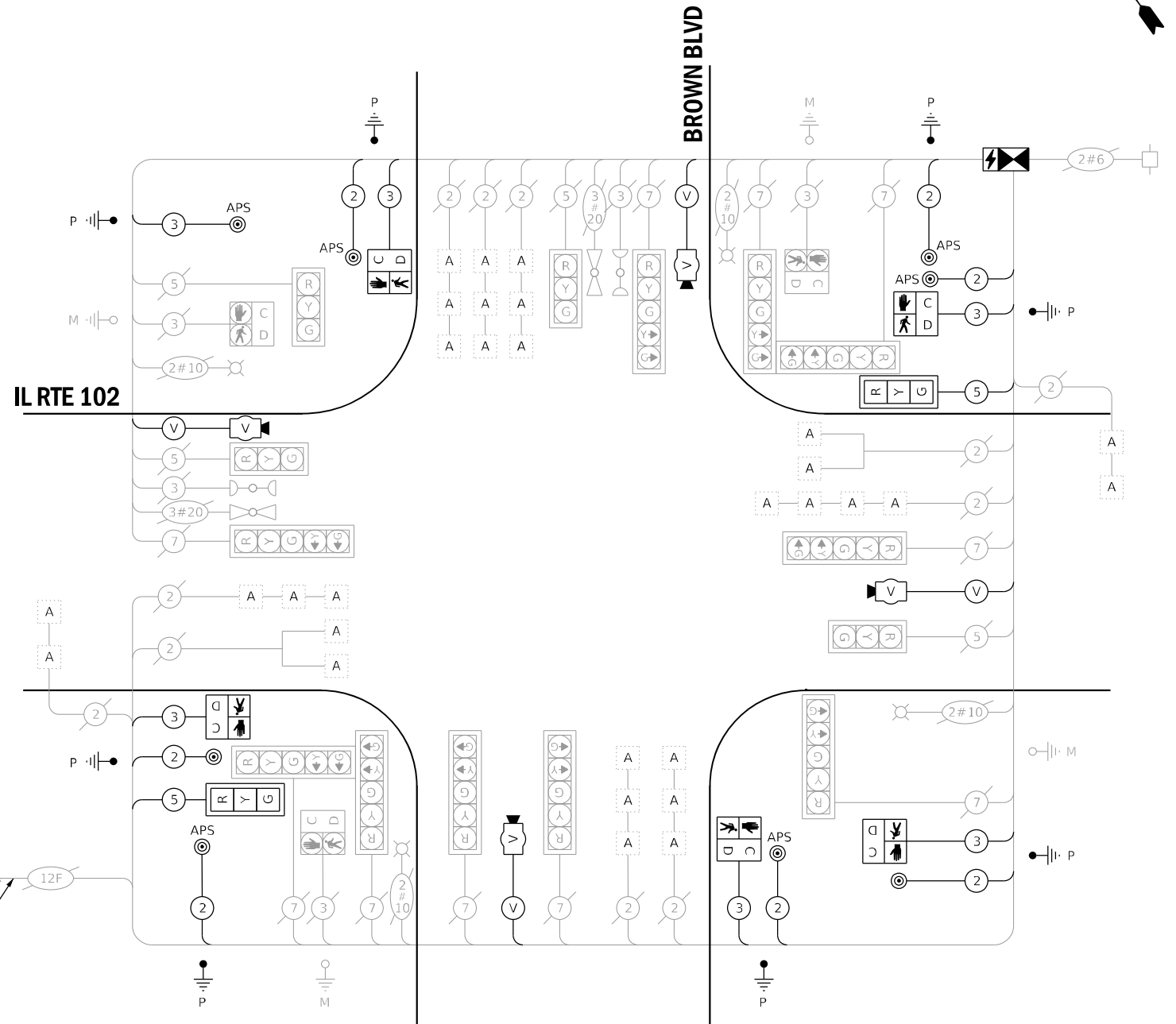
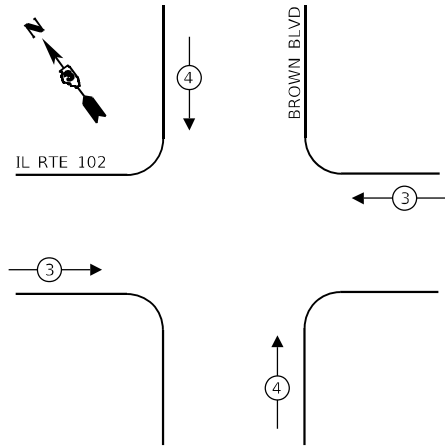
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EX. INTERCONNECT TO STRATFORD DR

CABLE PLAN
(NOT TO SCALE)

MODEL: IL RTE 102 - Rev'n
FILE NAME: X:\PROJECTS\2021\12\12\17700 IDOT P1B_199-27_D312.101_IL102_Kankakee_IL\WG#11033668_88\CADD\DATA\CAD\sheet\03566188-sheet-cable_plans.dgn



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PLOT DATE = 3/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
IL RTE 102 AND BROWN BLVD**

SCALE: SHEET 32 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3-SW	KANKAKEE	148	135
			CONTRACT NO. 66L88	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

INSTALL 10' TRAFFIC SIGNAL POST, 1 PED HEAD, 1 APS PED PUSH BUTTON WITH SIGN
(APPROX. STA 438+55.90, 64.20' LT)

4' UNDERGROUND CONDUIT, PVC, 2 1/2" DIAMETER

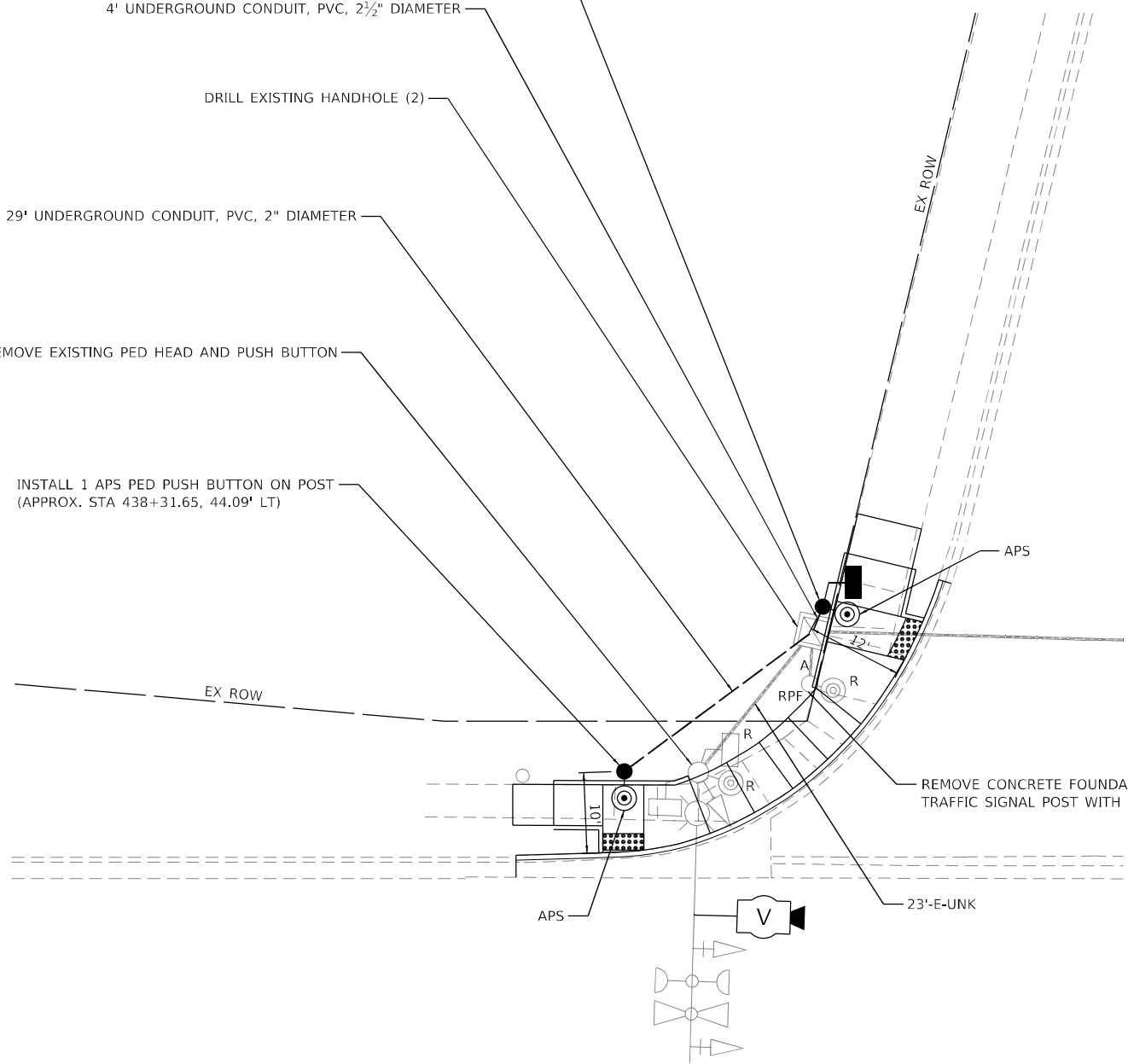
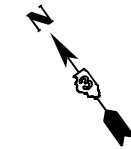
DRILL EXISTING HANDHOLE (2)

29' UNDERGROUND CONDUIT, PVC, 2" DIAMETER

REMOVE EXISTING PED HEAD AND PUSH BUTTON

INSTALL 1 APS PED PUSH BUTTON ON POST
(APPROX. STA 438+31.65, 44.09' LT)

BROWN BLVD



BILL OF MATERIALS - NW QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	29
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	329
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	158
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	6
DRILL EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	628
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ROD AND CLEAN EXISTING CONDUIT	FOOT	132
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25

IL RTE 102

NW QUADRANT DETAIL

MODEL: Oak Run Brown Blvd; FILE NAME: C:\p03\353\102\12102\12102\17700 IDOT PTF 199-22 D313101 IL102_Kankakee_WG#1103366.88\CADD\DATA\CAD\sheet\03566.88.sht-plans.dgn



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	DRAWN -	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

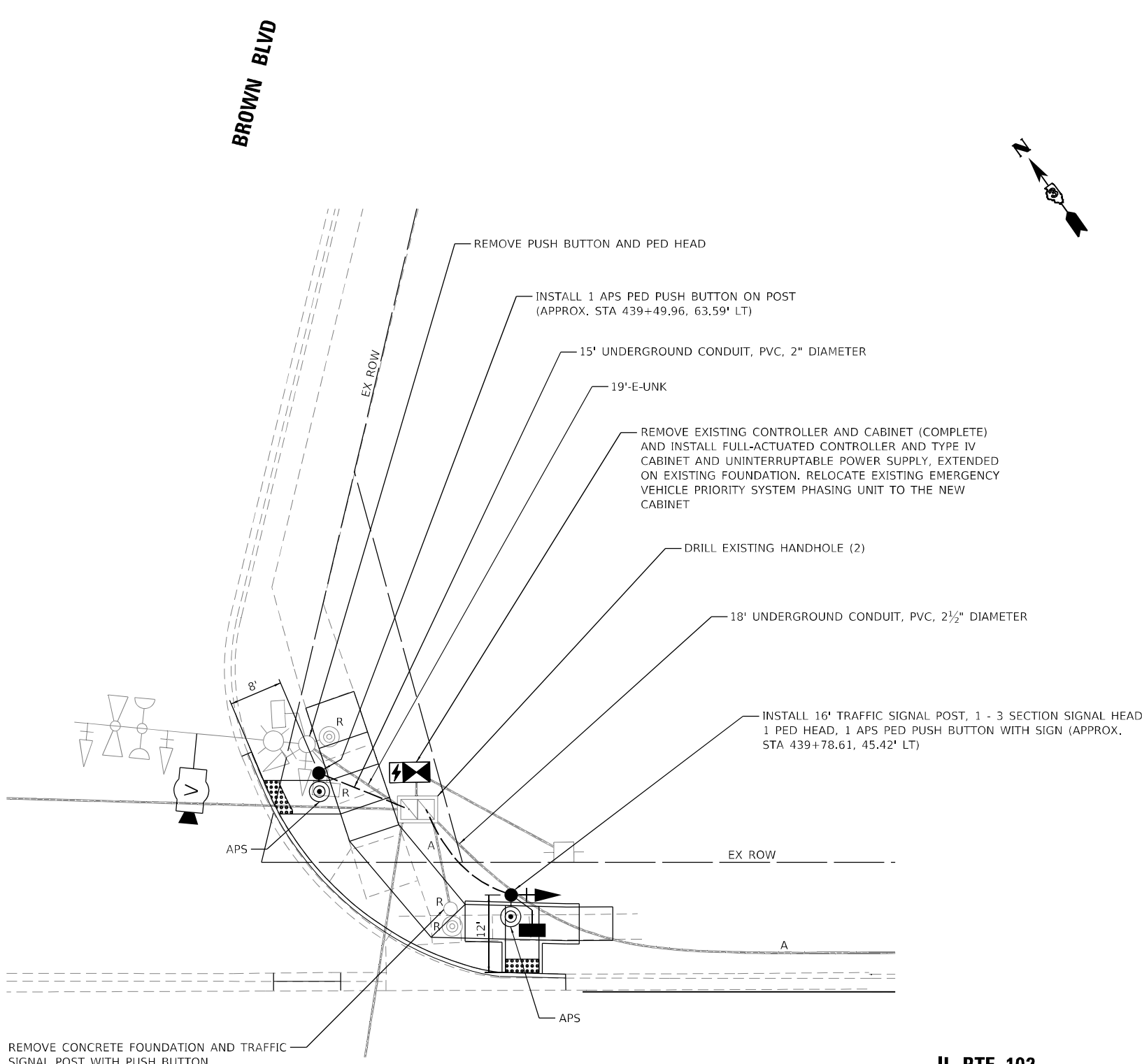
TRAFFIC SIGNAL MODERNIZATION PLAN	
IL RTE 102 AND BROWN BLVD /OAK RUN DR - NW QUADRANT	
SCALE: 1"=10'	SHEET 33 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	136
				CONTRACT NO. 66L88

ILLINOIS FED. AID PROJECT

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON



BILL OF MATERIALS - NE QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	15
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	18
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	98
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	56.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	62.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	6
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	72
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ROD AND CLEAN EXISTING CONDUIT	FOOT	25
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25
PERMANENT TRAFFIC SIGNAL TIMING	EACH	1

MODEL: Oak Run Brown Blvd Interchange
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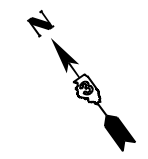
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND BROWN BLVD /OAK RUN DR - NE QUADRANT**

SCALE: 1"=10' SHEET 34 OF 36 SHEETS STA. TO STA.

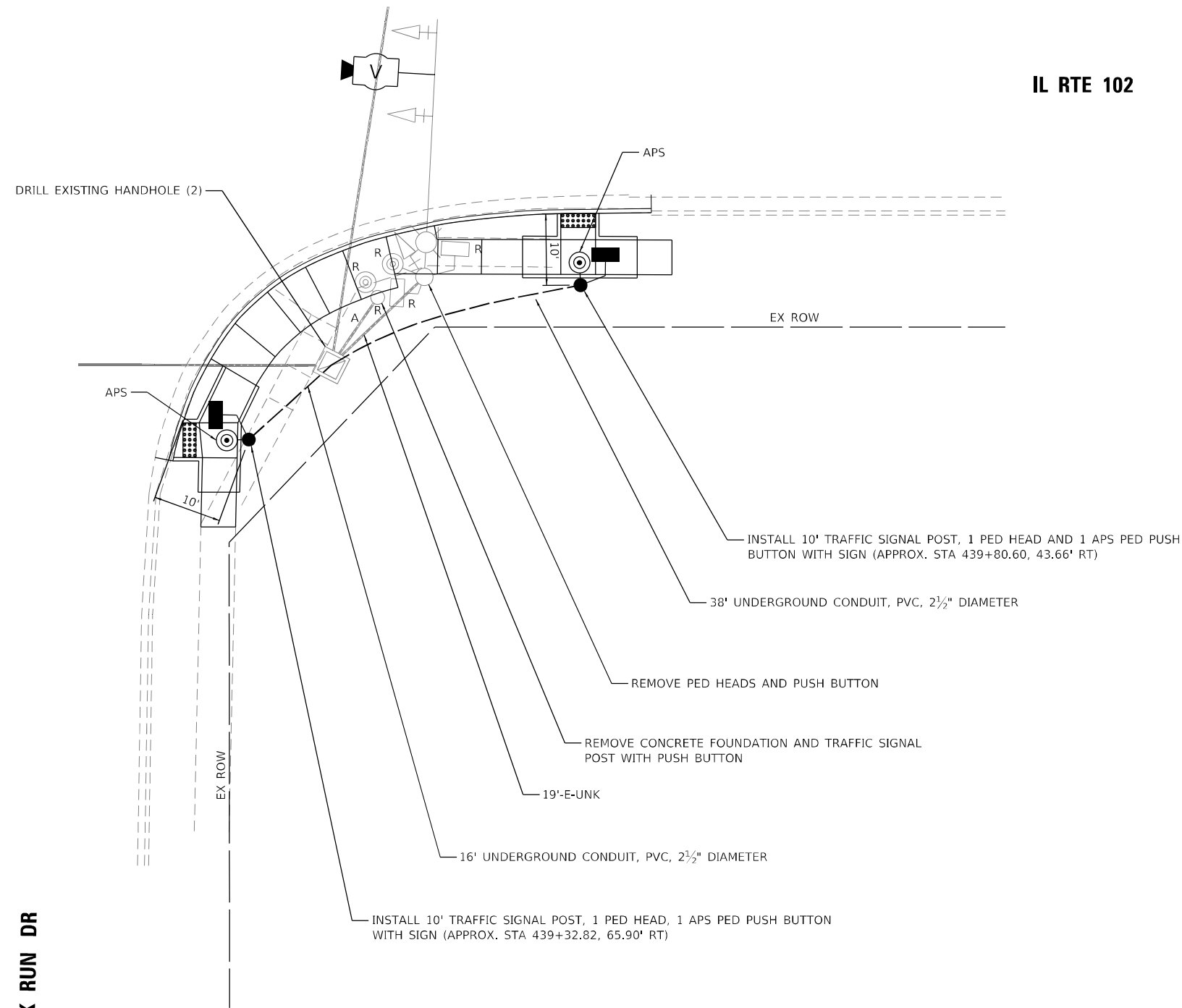
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	137
CONTRACT NO. 66L88			ILLINOIS FED. AID PROJECT	



IL RTE 102

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON



SE QUADRANT DETAIL

BILL OF MATERIALS - SE QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	54
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	362
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	374
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	6
DRILL EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	548
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ROD AND CLEAN EXISTING CONDUIT	FOOT	134
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25

MODEL: Oak Run Brown Blvd Interchange
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PLOT DATE = 3/11/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND BROWN BLVD /OAK RUN DR - SE QUADRANT**

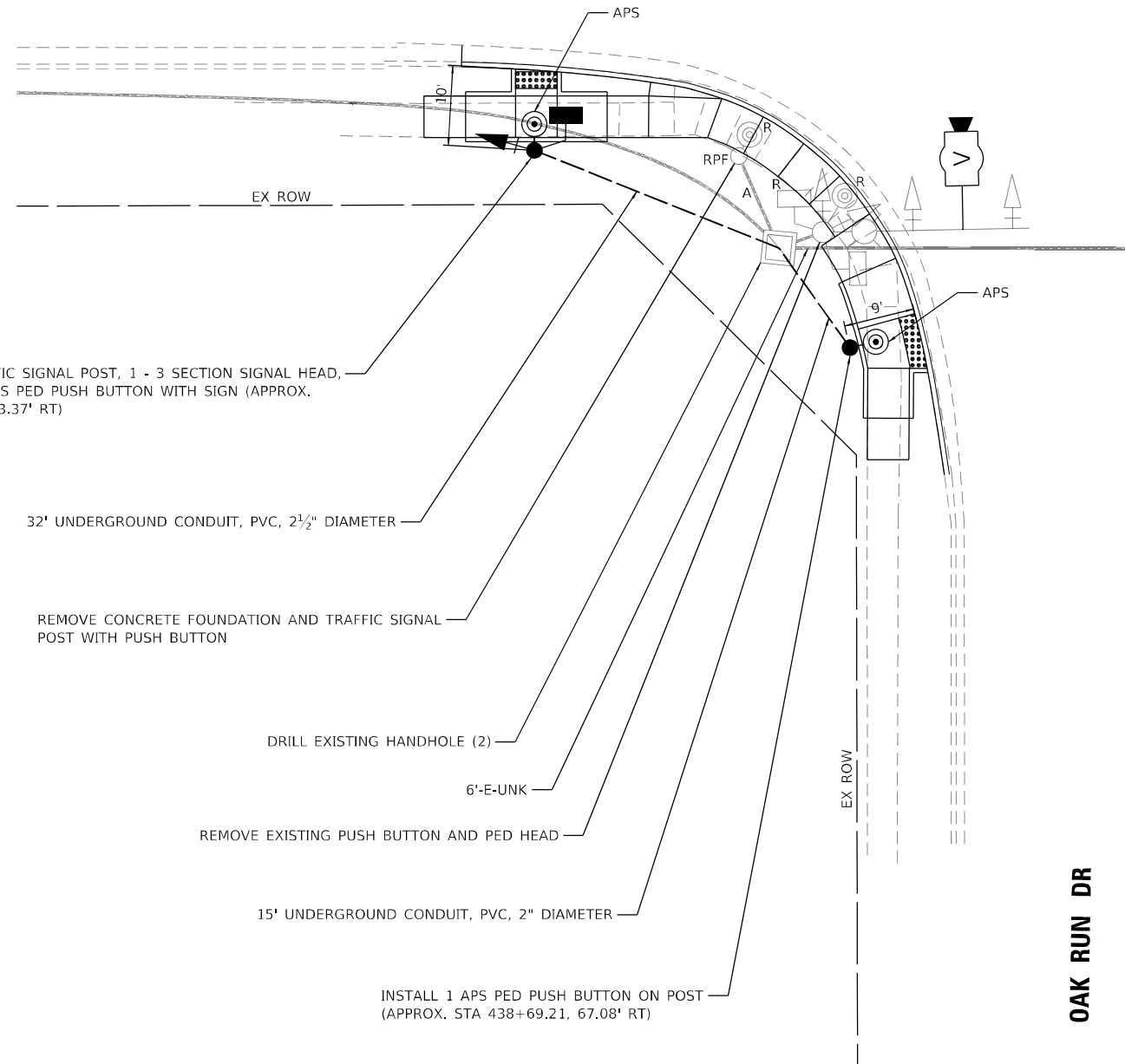
SCALE: 1"=10' SHEET 35 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	138
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNALS LEGEND

EXISTING	PROPOSED	
		HANDHOLE
		CONTROLLER WITH UPS
		STEEL MAST ARM
		PEDESTRIAN PUSHBUTTON DETECTOR
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD PEDESTRIAN
		EVP DETECTOR AND BEACON
		SIGNAL POST
		CONDUIT
		VIDEO DETECTION
	R	REMOVE ITEM
	RL	RELOCATE ITEM
	A	ABANDON ITEM
	RMF	MAST ARM POLE AND FOUNDATION TO BE REMOVED
	RPF	SIGNAL POST AND FOUNDATION TO BE REMOVED
	APS	ACCESSIBLE PEDESTRIAN PUSH BUTTON

IL RTE 102



SW QUADRANT DETAIL

BILL OF MATERIALS - SW QUADRANT

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	15
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	32
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0.25
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	536
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	282.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	288.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	6
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	640
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0.25
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ROD AND CLEAN EXISTING CONDUIT	FOOT	90
REMOTE CONTROLLED VIDEO SYSTEM	EACH	0.25
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	0.25

MODEL: Oak Run Brown Blvd/IL102...
 FILE NAME: ...
 USER: rgeorgescu
 DATE: 3/11/2022



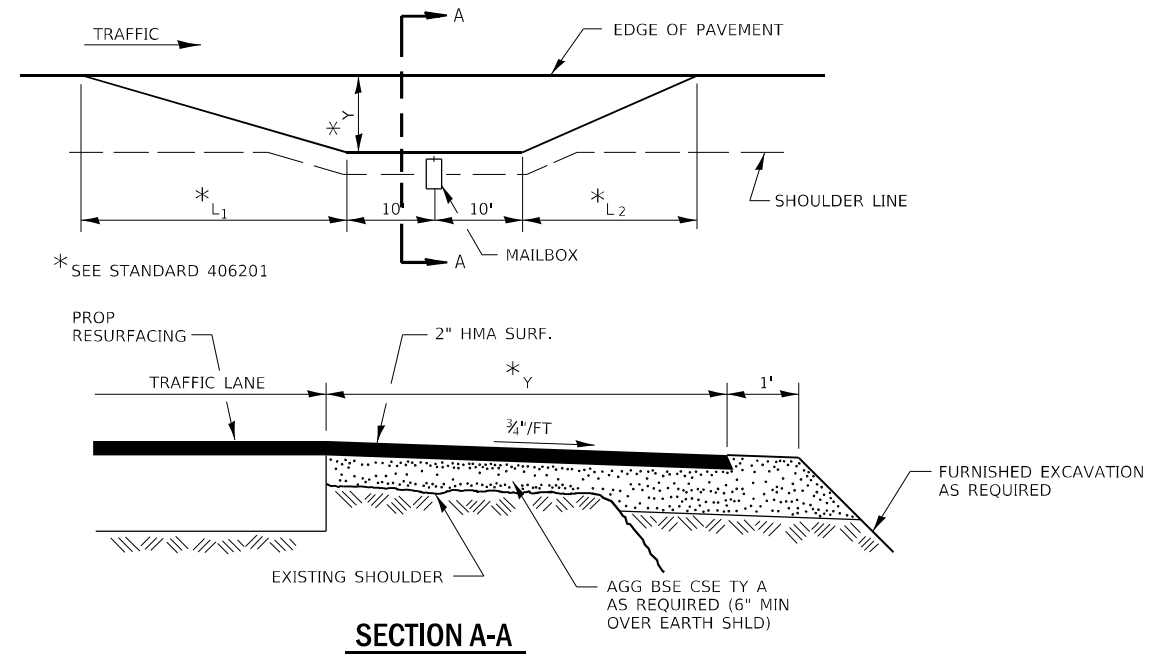
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 102 AND BROWN BLVD /OAK RUN DR - SW QUADRANT

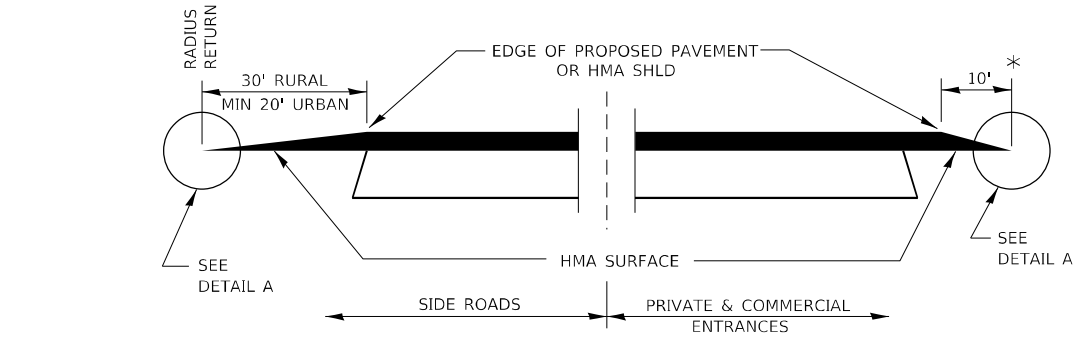
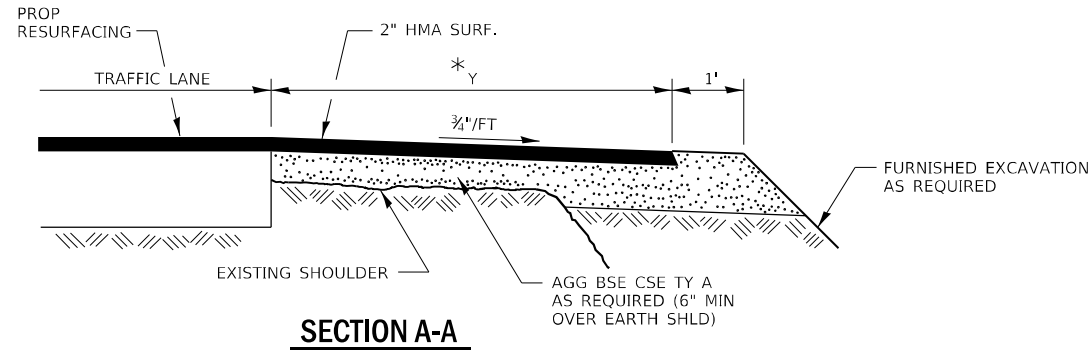
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	139
			CONTRACT NO. 66L88	
		ILLINOIS	FED. AID PROJECT	

SCALE: 1"=10' SHEET 36 OF 36 SHEETS STA. TO STA.

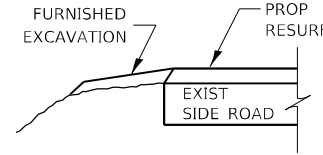


**SECTION A-A
RURAL MAILBOX TURNOUT DETAILS**

* SEE STANDARD 406201

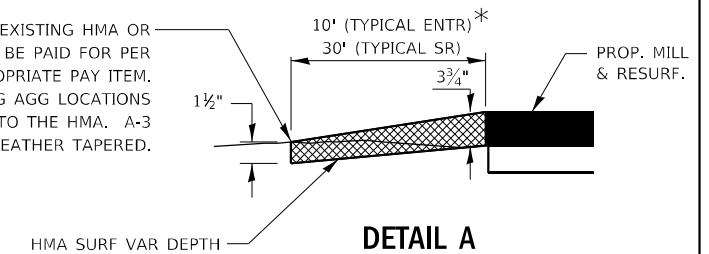


**SECTION A-A
DETAILS AT ENTRANCES & SIDE ROADS**

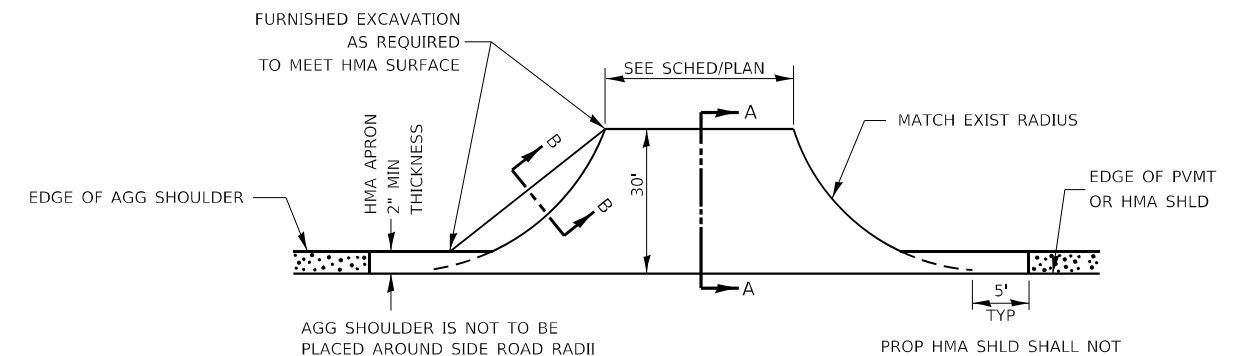


SECTION B-B

THE COST OF REMOVAL AT EXISTING HMA OR PCC LOCATIONS SHALL BE PAID FOR PER SQ YD BY THE APPROPRIATE PAY ITEM. REMOVAL AT THE EXISTING AGG LOCATIONS SHALL BE INCIDENTAL TO THE HMA. A-3 LOCATIONS SHALL BE FEATHER TAPERED.

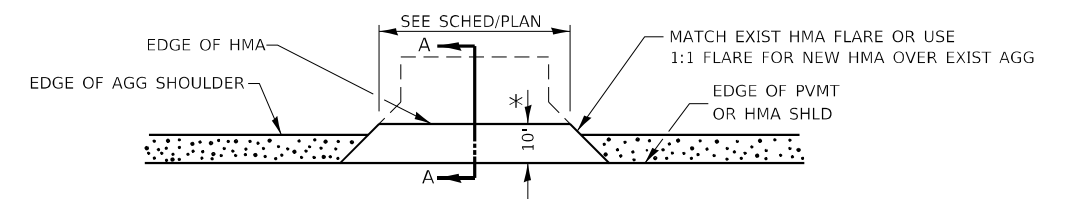


DETAIL A



PLAN AT SIDE ROADS

NOTE:
EROSION CONTROL BLANKET AND SEEDING, CLASS 2A IS REQUIRED ON THE FURNISHED EXCAVATION. THE COST OF THE EROSION CONTROL BLANKET AND SEEDING SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.



PLAN AT PRIVATE & COMMERCIAL ENTRANCES

(DO NOT RESURFACE FIELD ENTRANCES)

* PROPOSED HMA RESURFACING AT PUBLIC EDUCATIONAL FACILITY ENTRANCES SHALL BE EXTENDED TO THE RIGHT-OF-WAY LIMITS.

MODEL: Defaul
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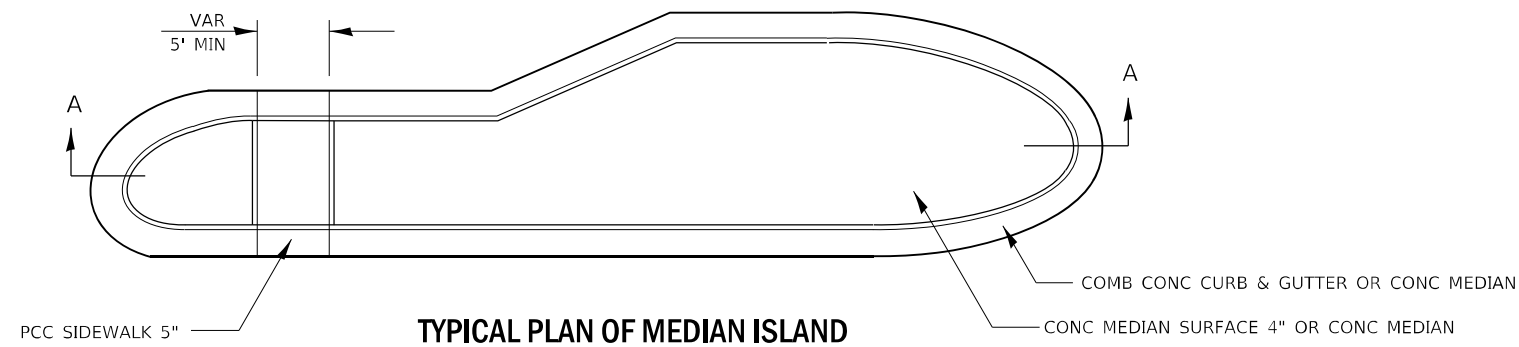
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RURAL MAILBOX TURNOUT DETAILS AND
DETAILS AT ENTRANCES AND SIDE ROADS**

SCALE: SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	140
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

SEE STANDARDS 606001, 606301, 424031, AND PLAN SHEETS FOR STATION, OFFSETS, RADII, DIMENSIONS, AND DETAILS NOT SHOWN.

THE SIDEWALK SHOULD DRAIN TO THE LOW SIDE OF THE ISLAND. IF NECESSARY THE SIDEWALK SHALL BE SLOPED TO DRAIN AT A MAXIMUM 2% GRADE.

SEE THE PLAN SHEETS FOR THE TYPE OF CURB & GUTTER TO BE USED ON ISLANDS.

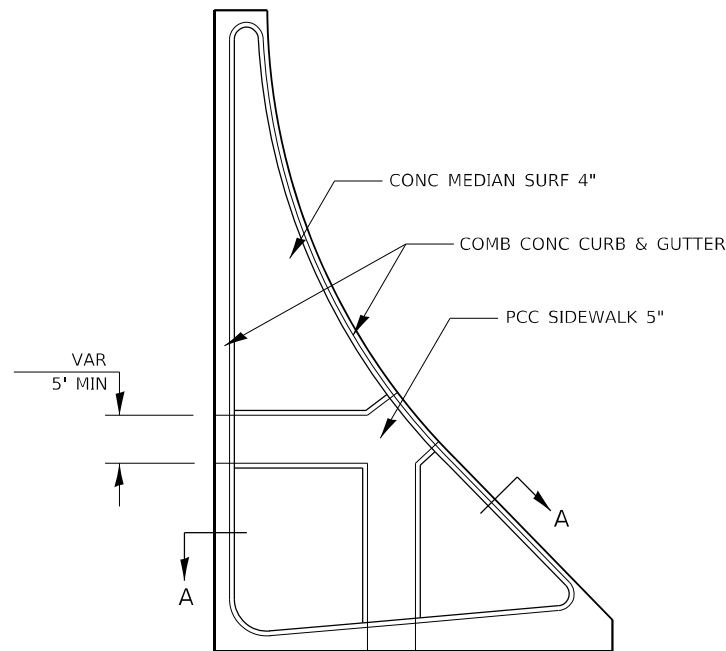
THE SIDEWALK SHOULD NOT BE CLOSER THAN 3' FROM THE CORNER OF THE ISLAND.

KEYED LONGITUDINAL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITHOUT TIE BARS.

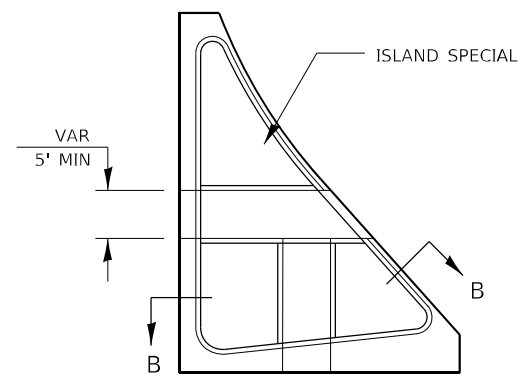
MEDIANS AND LARGE ISLANDS SHALL CONSIST OF PCC SIDEWALK 5", CONCRETE MEDIANS SURF 4", CONCRETE CURB, AND COMBINATION CONCRETE CURB & GUTTER, TYPE M OR B OR THE SIZE SPECIFIED. MEDIAN ISLAND CAN ALSO BE SOLID CONCRETE MEDIANS.

LOCATIONS, LAYOUTS, AND WIDTHS OF THE FLUSH SIDEWALK AREA, SHALL BE DETERMINED BY THE DESIGNER AND SHOWN ON THE PLANS.

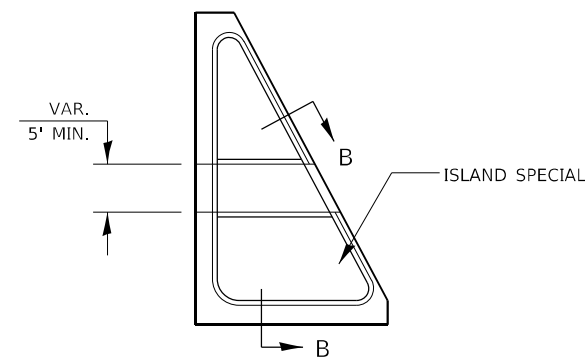
THE INTERMEDIATE AND SMALL ISLANDS WILL BE MEASURED FOR PAYMENT FROM EOP TO EOP USING EITHER OPTION 1 OR OPTION 2, AS DIRECTED BY THE ENGINEER, AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ FT FOR CONCRETE MEDIAN (SPECIAL), WHICH SHALL INCLUDE THE CURB, COMBINATION CURB & GUTTER, SIDEWALK, AGGREGATE FILL, CONCRETE MEDIAN SURFACE, AND SOLID CONCRETE MEDIAN.



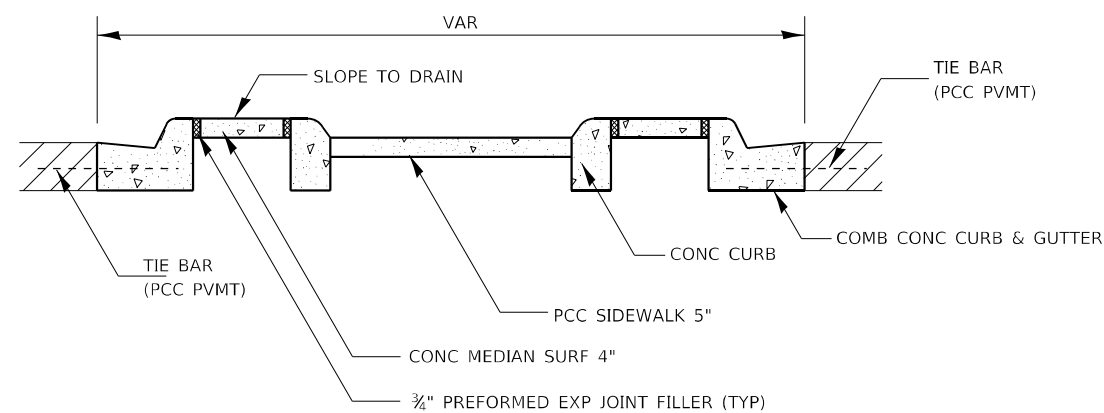
LARGE ISLAND
(FREE FLOW DESIGN)



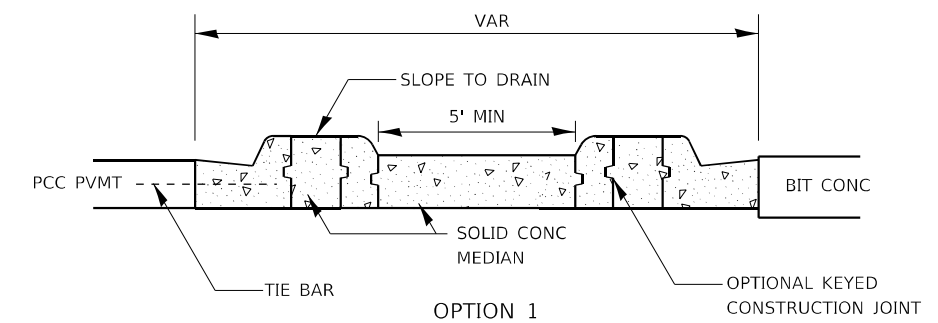
INTERMEDIATE ISLAND
(FOR RIGHT TURN LANE DESIGN)



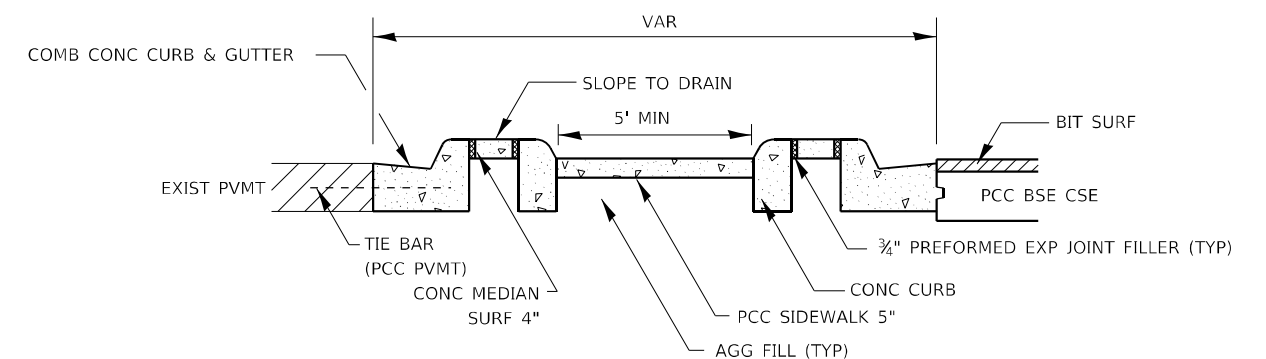
SMALL ISLAND
(FOR TYPICAL DESIGN)



SECTION A-A



OPTION 1



OPTION 2

SECTION B-B

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PCC ISLANDS AND MEDIANS ACCESSIBLE TO THE DISABLED

424-28

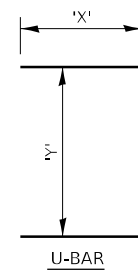
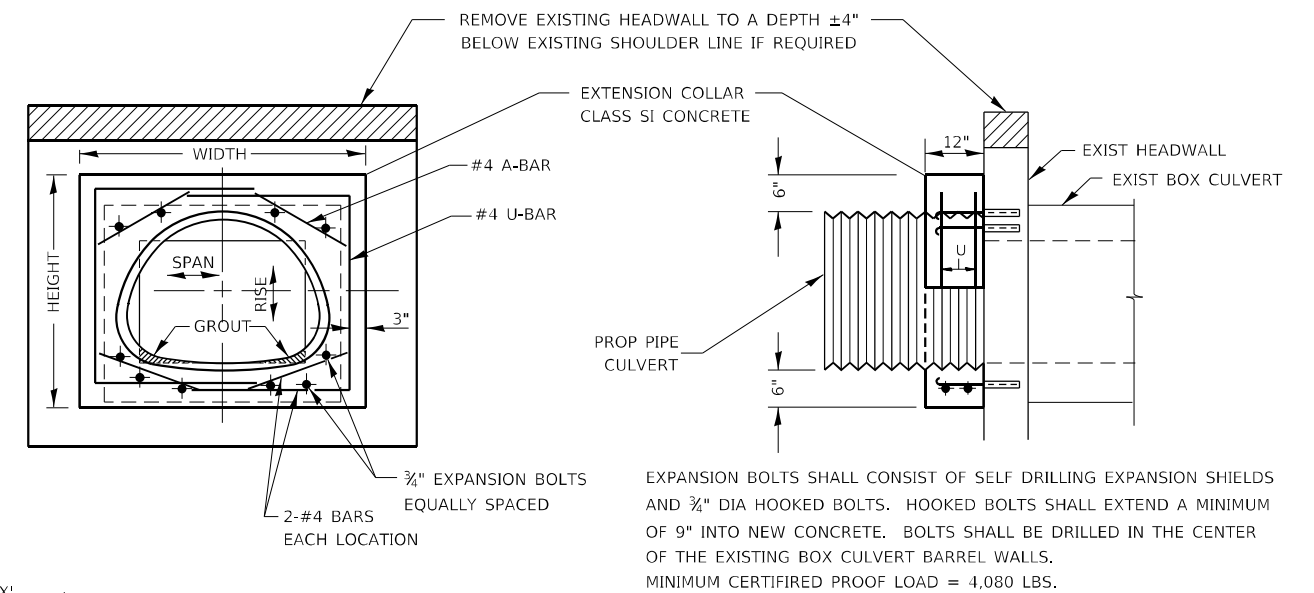
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	DRAWN -	REVISED -
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PLOT DATE = 3/11/2022	DATE -	REVISED -

SCALE: SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3.5W	KANKAKEE	148	141
			CONTRACT NO. 66L88	
		ILLINOIS FED. AID PROJECT		

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LOCATION	EXISTING CULVERT SIZE FT x FT	PIPE DIMENSION			PIPE AREA SQ FT	EXTENSION COLLAR		A-BAR 380 IN	U-BAR		CLASS SI CONC COLLAR CU YD	REINFORCEMENT BARS POUND	¾" DIA EXPANSION BOLTS EACH
		SPAN IN	RISE IN	EQUIV IN		WIDTH IN	HEIGHT IN		'x' IN	'y' IN			
279+25.	3 x 2	42	29	36	6.5	57	41	12	32	35	0.3	30	10

QUANTITIES ARE FOR ONE SIDE ONLY

COLLAR DETAIL (A.D.E. CMP EXTENSION OF BOX CULVERT)

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PLOT DATE = 3/11/2022	DATE -	REVISED -

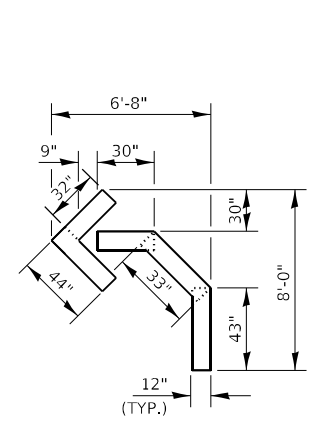
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COLLAR DETAIL (A.D.E. CMP EXTENSION OF BOX CULVERT)

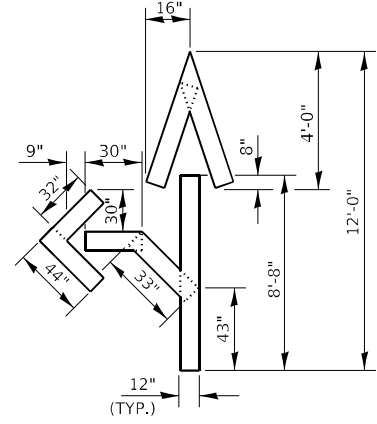
SCALE: SHEET 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	142
CONTRACT NO. 66L88			ILLINOIS FED. AID PROJECT	

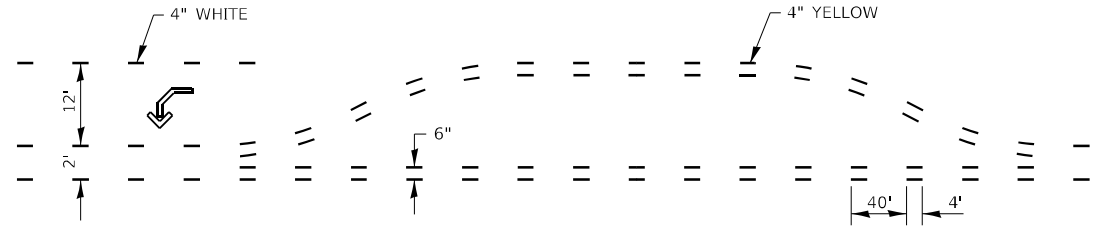
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QUANTITY
 12" LINE = 16 LIN FT
 OR 4" LINE = 48 LIN FT



QUANTITY
 12" LINE = 29 LIN FT
 OR 4" LINE = 87 LIN FT



**SHORT-TERM PAVEMENT MARKING
 FOR MEDIANS AND ARROWS**

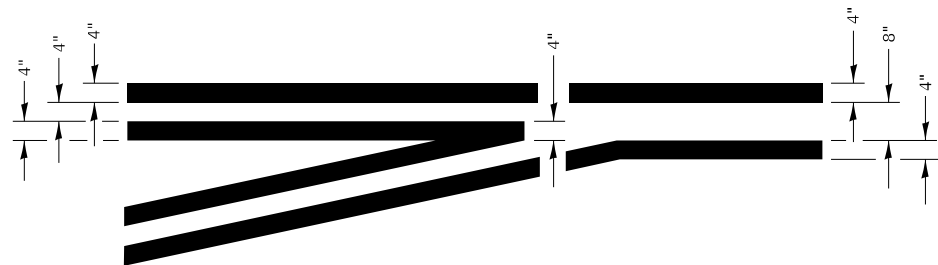
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PLOT DATE = 3/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

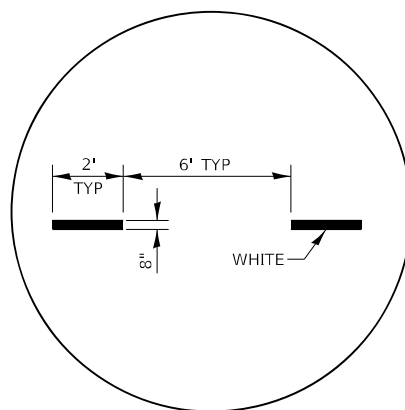
**SHORT-TERM PAVEMENT MARKING
 FOR MEDIANS AND ARROWS**

SCALE: SHEET 4 OF 9 SHEETS STA. TO STA.

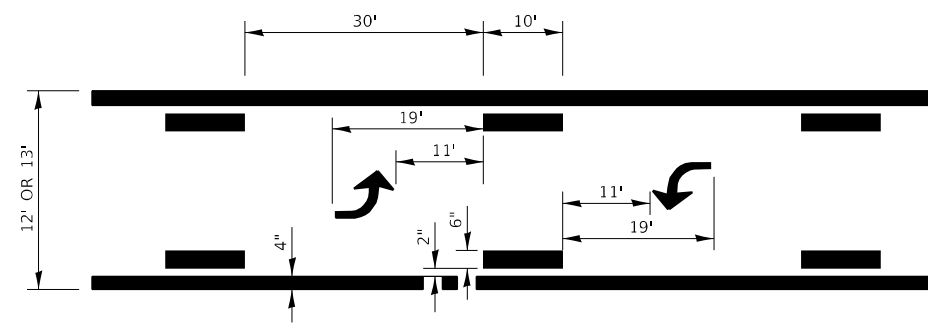
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	143
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



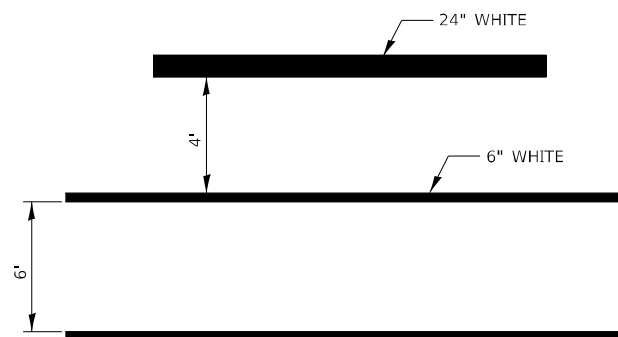
**LEFT TURN LANE
TYPICAL APPLICATION**



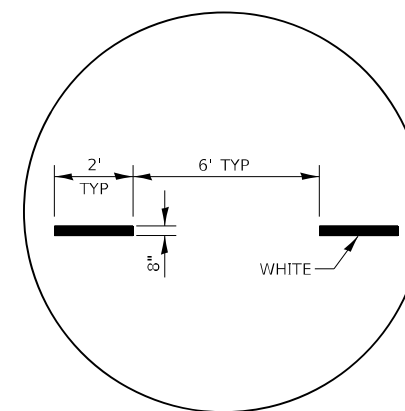
**ADVANCE AND INTERSECTION LANE
DIVIDER LINES**



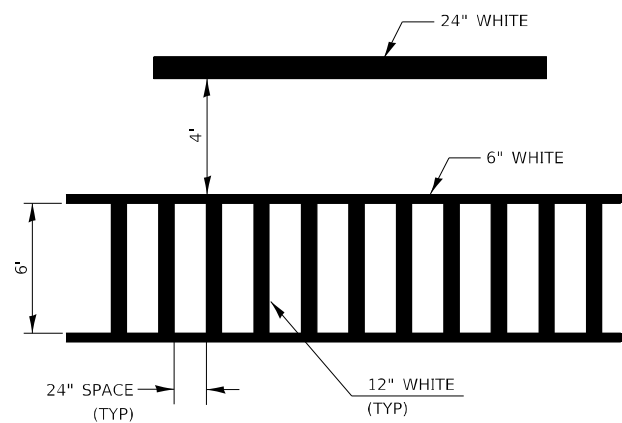
**TYPICAL APPLICATION @
BI-DIRECTIONAL TURN LANE**



**TYPICAL SPACING DETAIL FOR
CROSSWALKS AND STOP BARS**

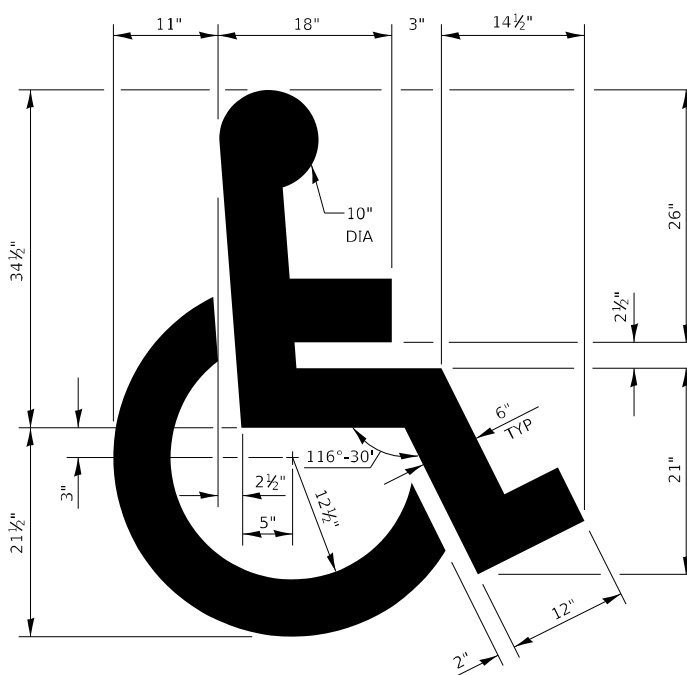


INTERSTATE RAMP TRANSITION LINE

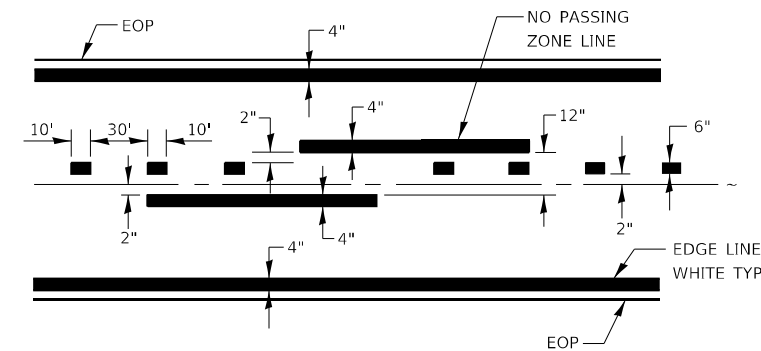


**TYPICAL SPACING DETAIL FOR
CROSSWALKS AND STOP BARS**

**780-3
OPTION 2**



**TYPICAL DETAIL FOR
PAINTING HANDICAP MARKINGS**



PAVEMENT MARKING

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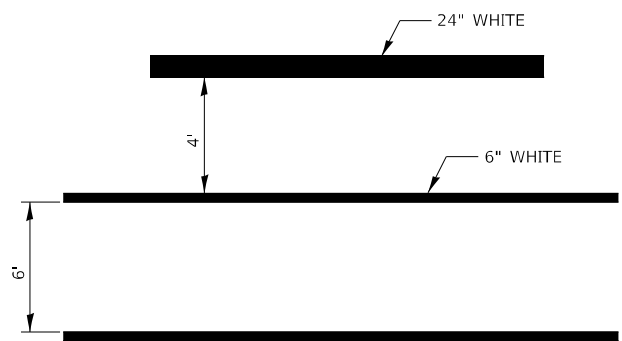
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

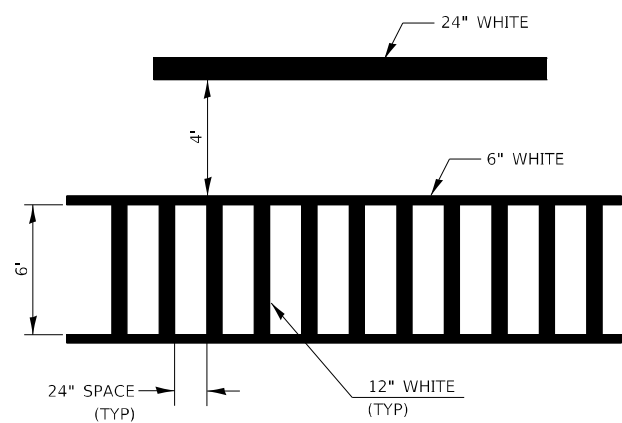
PAVEMENT MARKING DETAILS

SCALE: SHEET 6 OF 9 SHEETS STA. TO STA.

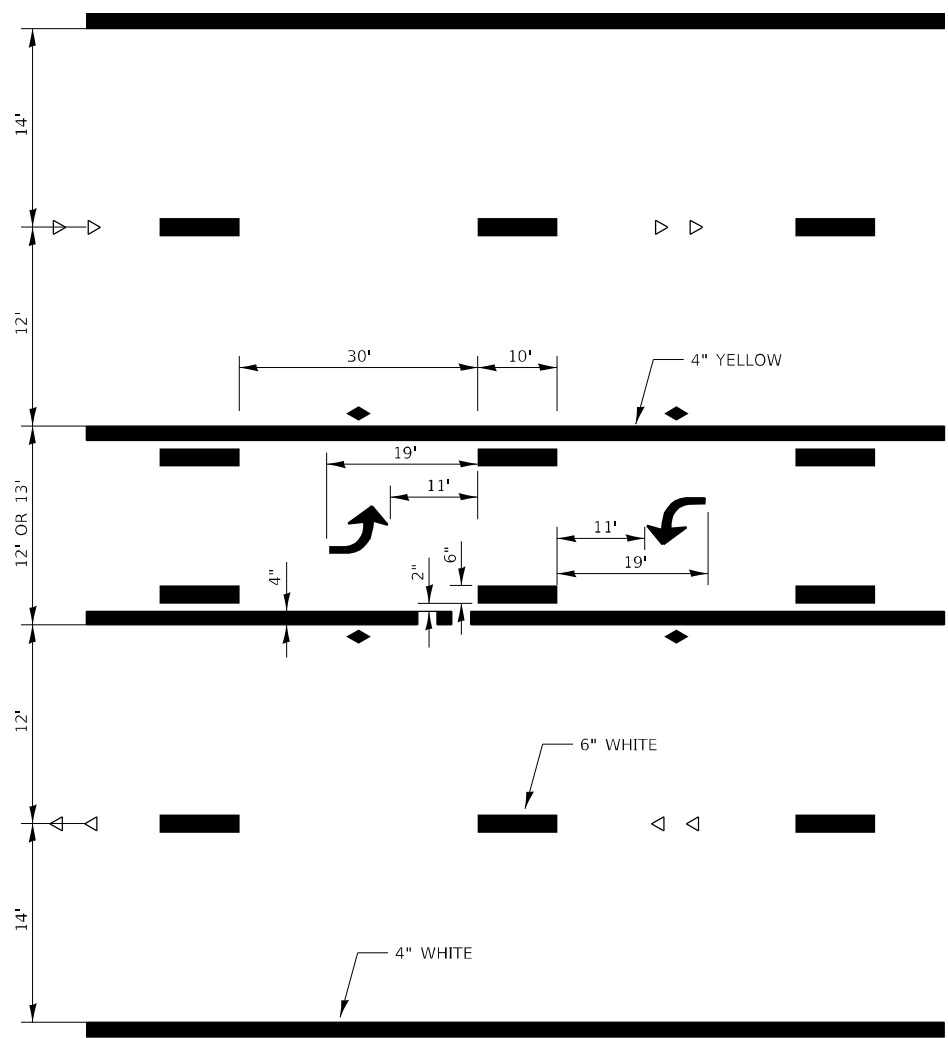
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	145
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				



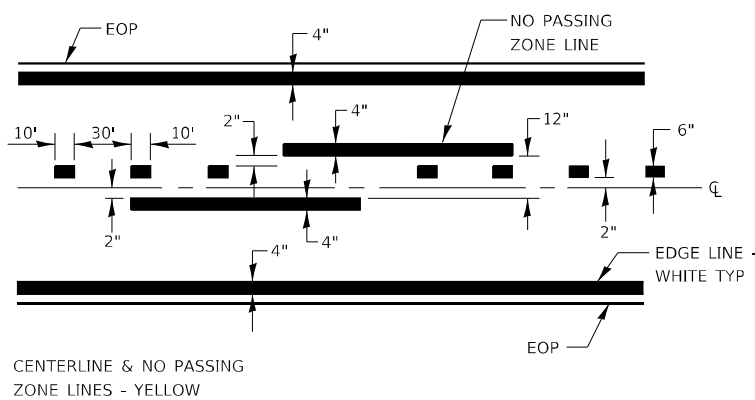
TYPICAL SPACING DETAIL FOR CROSSWALKS AND STOP BARS



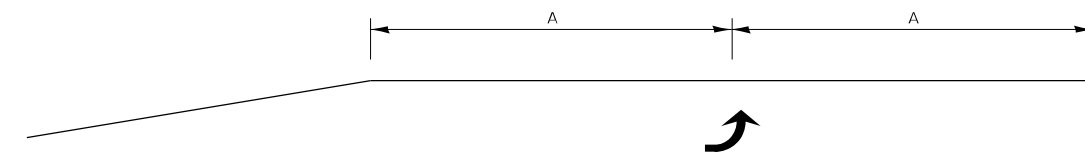
TYPICAL SPACING DETAIL FOR CROSSWALKS AND STOP BARS



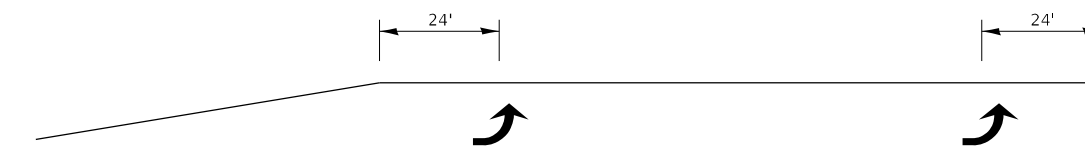
TYPICAL APPLICATION @ TWO WAY LEFT TURN LANE (TWLTL)



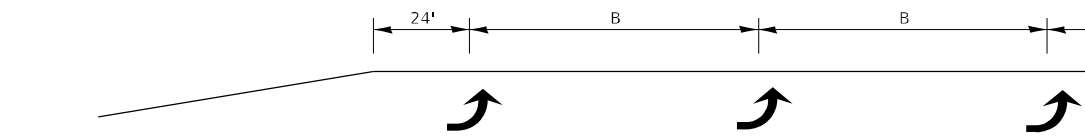
PAVEMENT MARKING



99' AND UNDER



100' TO 149'



150' AND LONGER

TYPICAL PLACEMENT OF ARROWS IN TURN LANES

URBAN PAVEMENT MARKING

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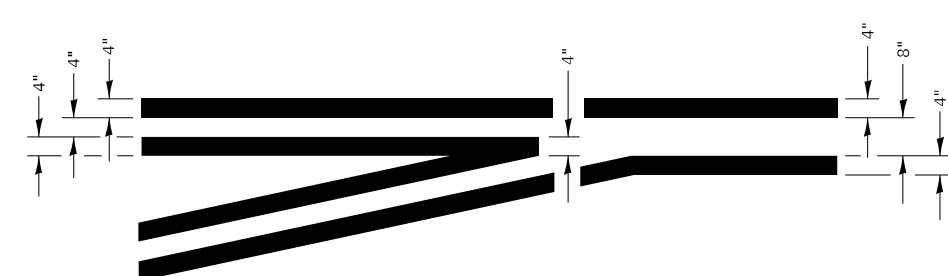
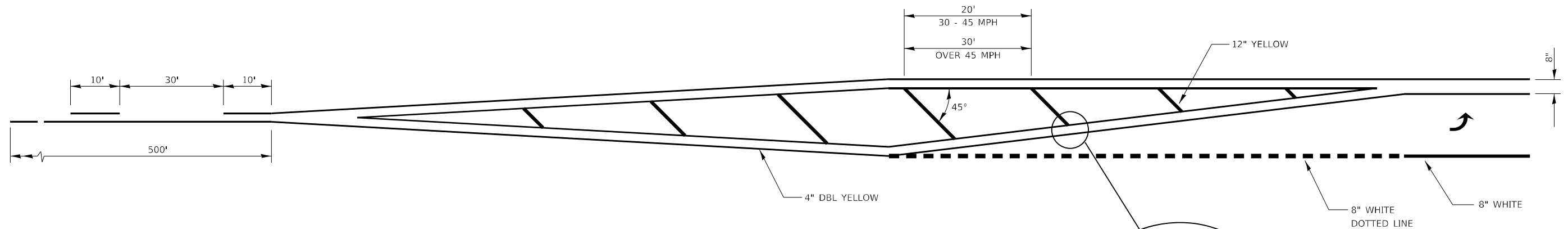
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PLOT DATE = 3/11/2022	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

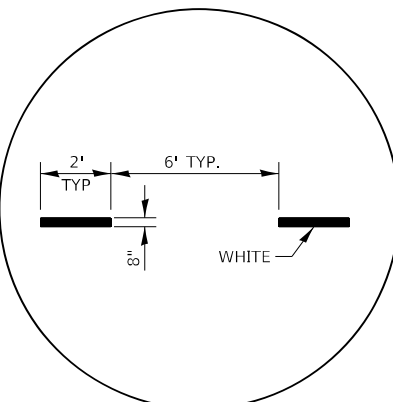
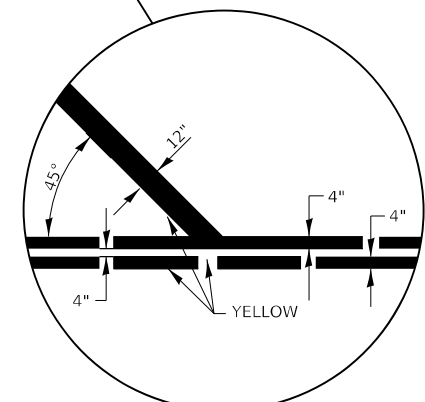
URBAN PAVEMENT MARKING

SCALE: SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	146
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

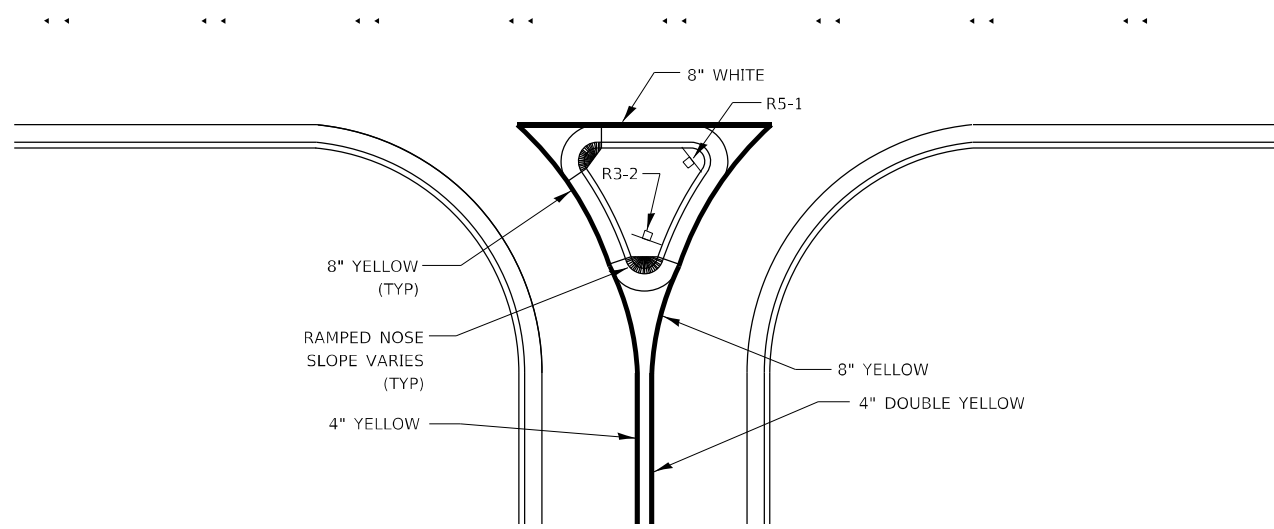


**TYPICAL APPLICATION
@ LEFT TURN LANES**

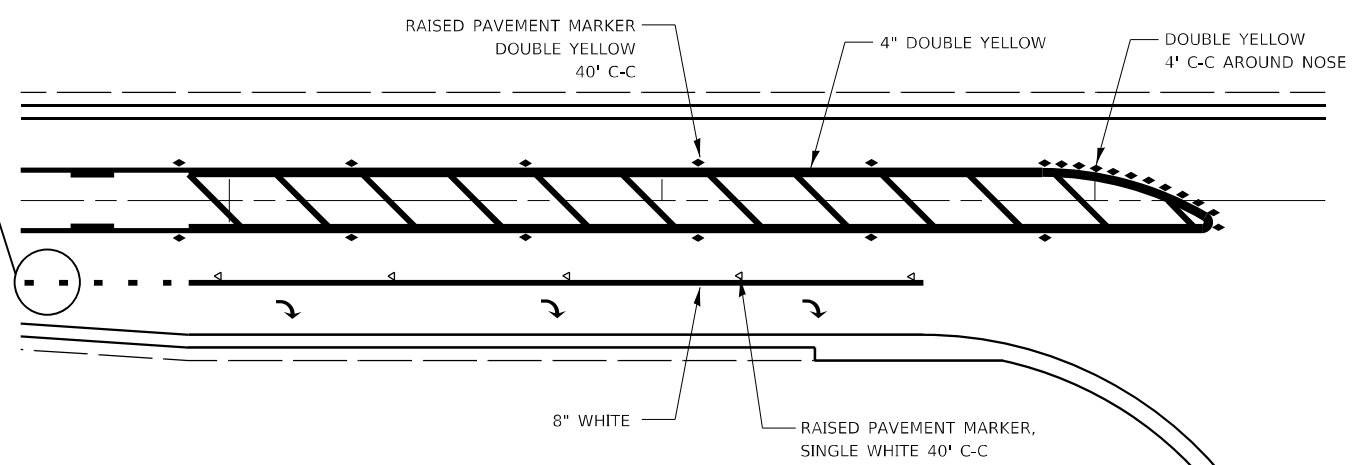


**ADVANCE AND INTERSECTION LANE
DIVIDER LINES**

URBAN PAVEMENT MARKING



RIGHT IN RIGHT OUT ACCESS PAVEMENT MARKING



**RAISED REFLECTIVE AND PAVEMENT MARKERS
@ RIGHT TURN LANE**

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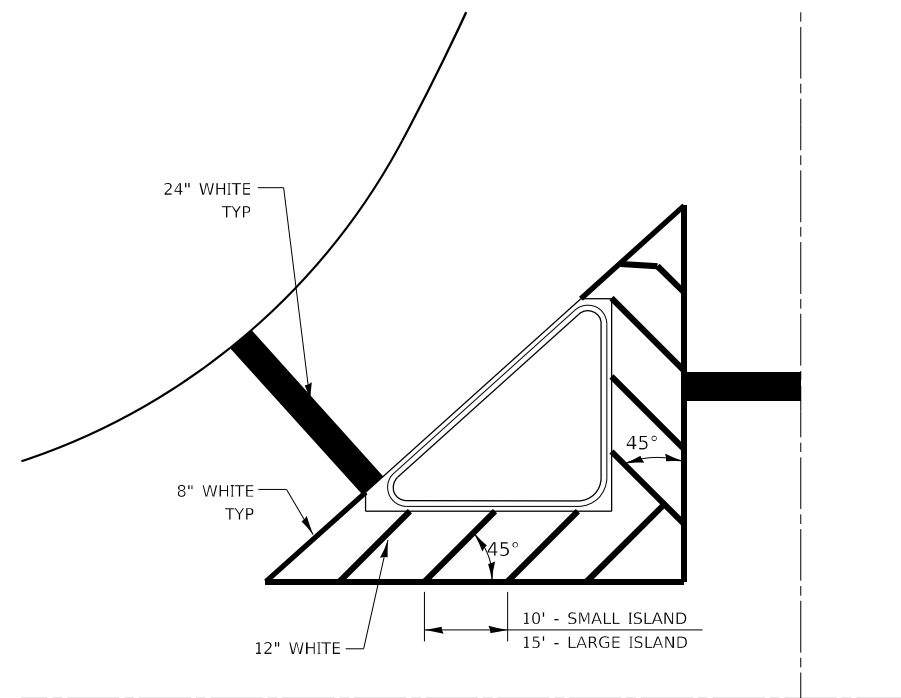
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PLOT DATE = 3/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

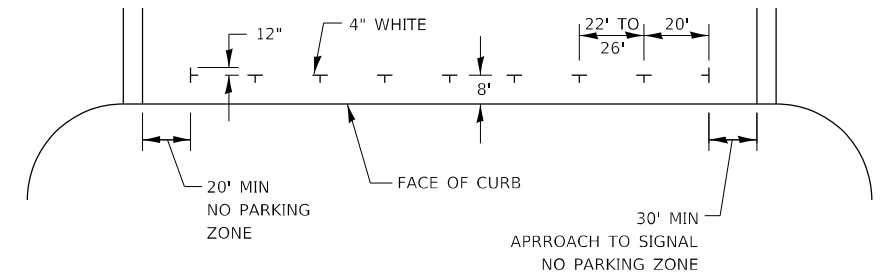
URBAN PAVEMENT MARKING			
SCALE:	SHEET 8	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3.5W	KANKAKEE	148	147
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				

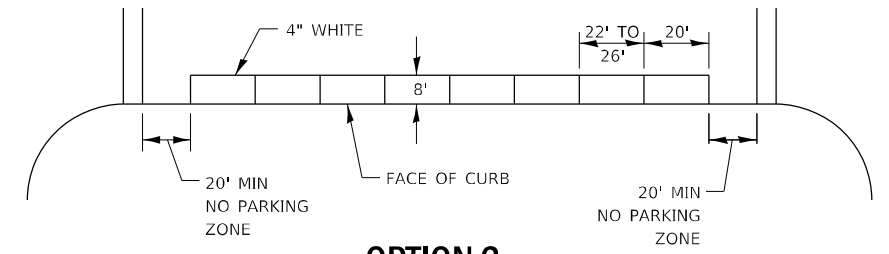
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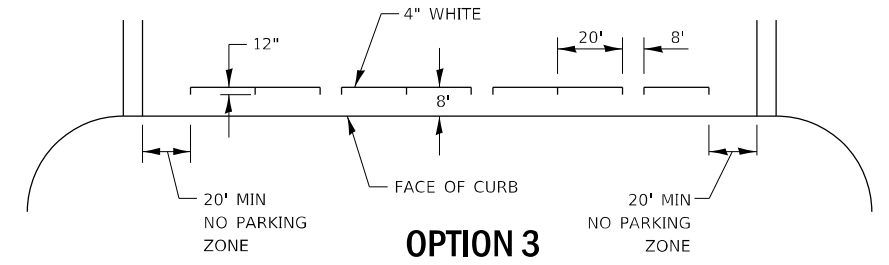
TYPICAL ISLAND



PREFERRED METHOD



OPTION 2



OPTION 3

TYPICAL PARKING SPACING

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS

SCALE: SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	(109N,110N)RS-3,5W	KANKAKEE	148	148
CONTRACT NO. 66L88				
ILLINOIS FED. AID PROJECT				