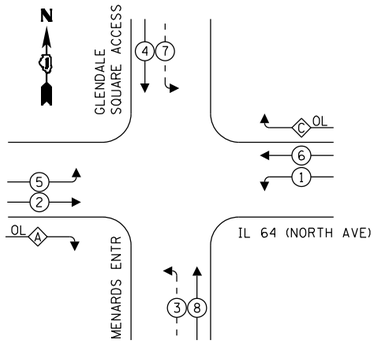
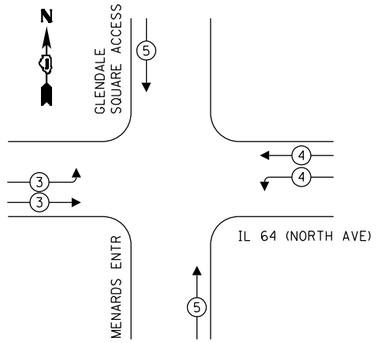
EXISTING AND PROPOSED CONTROLLER SEQUENCE

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

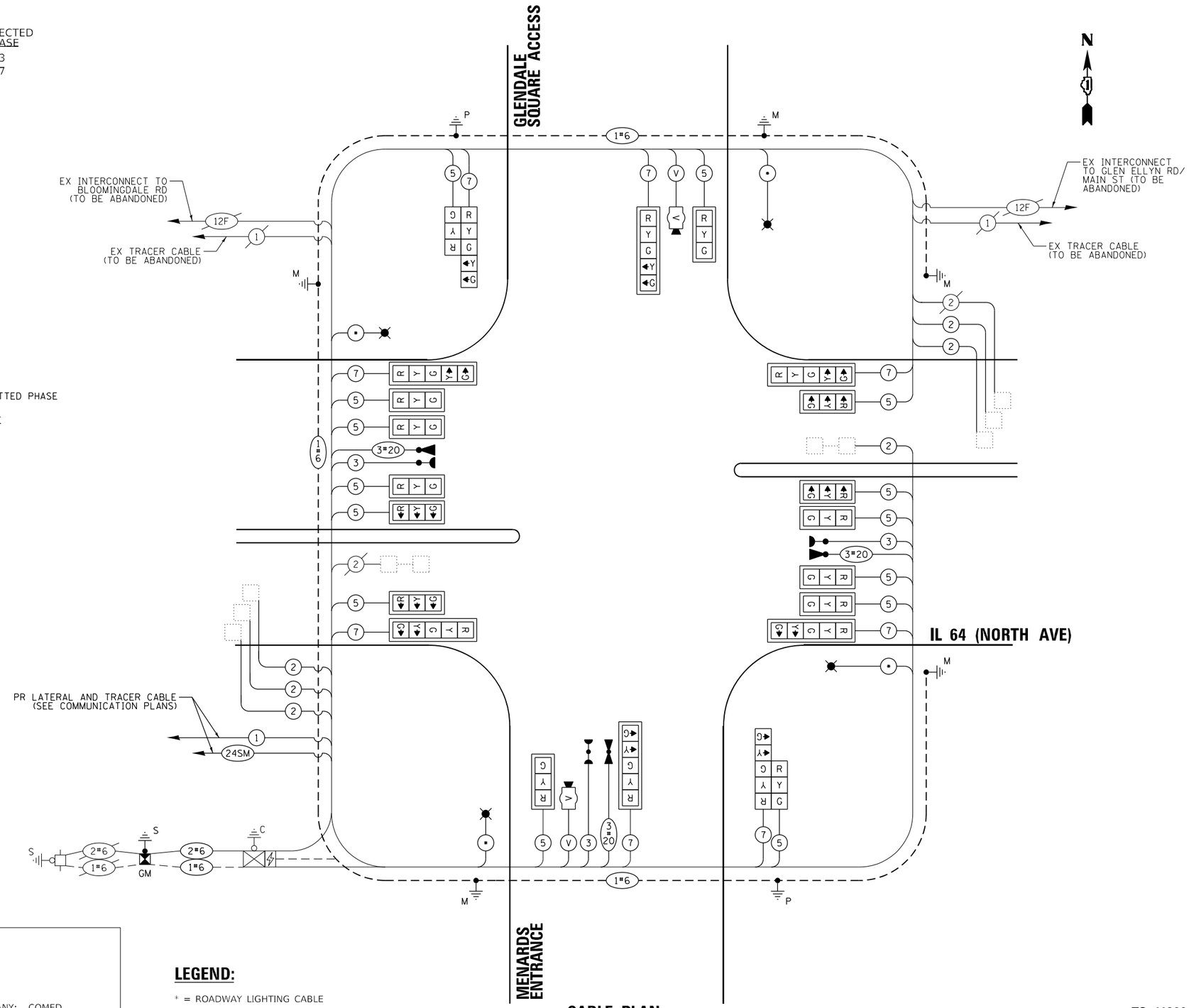
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	14	11	154
	4-SECTION	-	14	-
	5-SECTION	8	13	104
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		-	15	-
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	RADAR OR VIDEO	2	20	40
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	II OR III	1	35	35
CELLULAR MODEM		-	15	-
	TOTAL UPS SIZING			508
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
	TOTAL SERVICE WIRE SIZING			1113

ENERGY COSTS TO:
MENARDS
521 NORTH AVE
GLENDALE HEIGHTS, IL 60139

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 19711-50081



LEGEND:

* = ROADWAY LIGHTING CABLE

CABLE PLAN

(NOT TO SCALE)

TS 11390
IDOT TACTICS
FORMER EAGLE 2E

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PLOT DATE =	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND GLENDALE SQUARE ACCESS/ MENARDS ENTR

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	201
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	30
	SIGN PANEL - TYPE 2	SQ FT	25
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	72
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	141
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	548
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3517
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1873
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1918
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	39
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	252
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.	EACH	2
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
	DRILL EXISTING HANDHOLE	EACH	12
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	18
	INDUCTIVE LOOP DETECTOR	EACH	6
*	LIGHT DETECTOR	EACH	4
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5938
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	2
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	548
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	TACTICS LICENSE EXPANSION	EACH	1
	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	LED SIGNAL FACE, LENS COVER	EACH	22
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

* - 100% COST TO THE VILLAGE OF GLENDALE HEIGHTS

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IDOT TACTICS
FORMER EAGLE 2E

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PLOT DATE =	DATE - 3/21/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

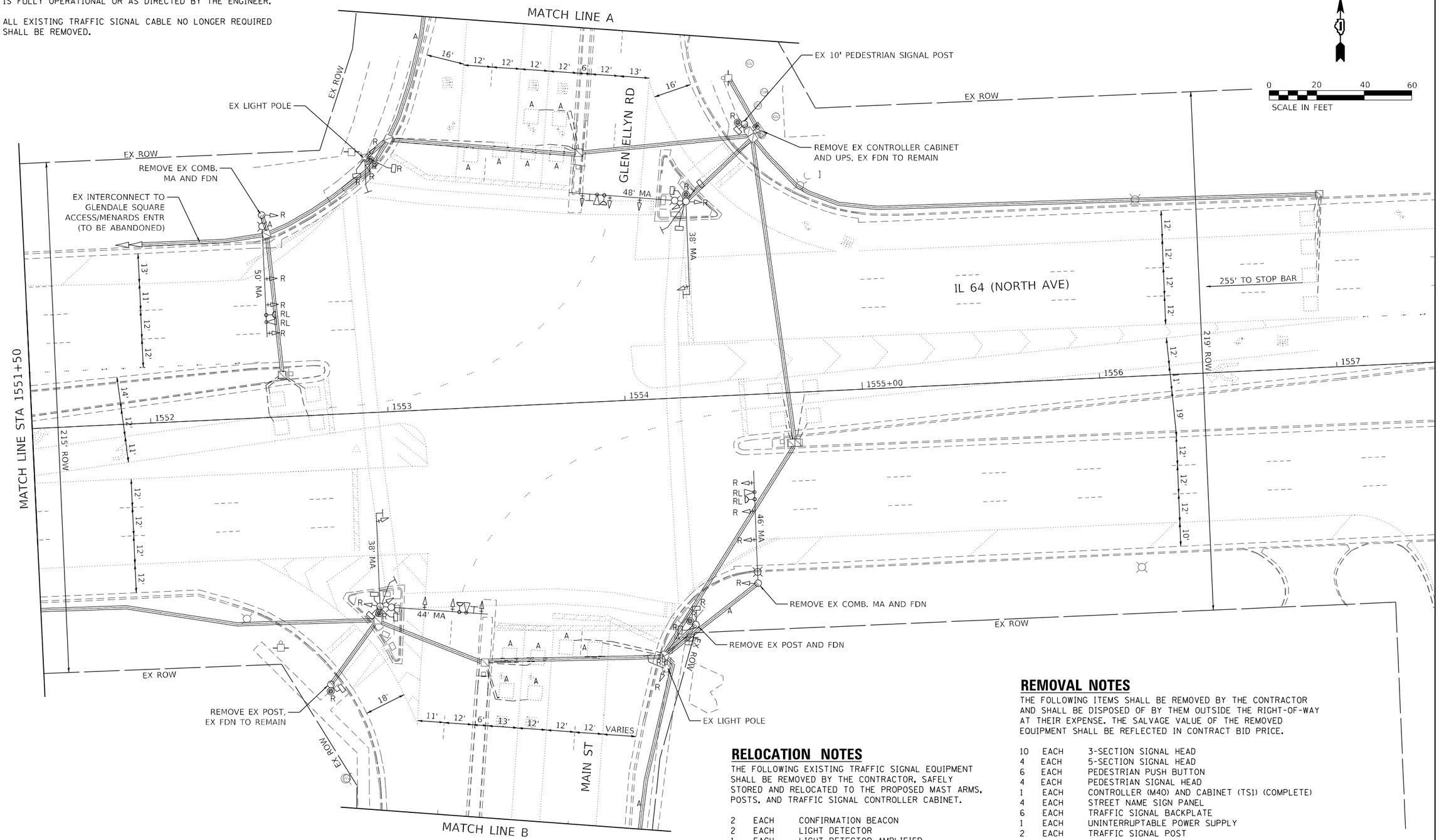
MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND GLENDALE SQUARE ACCESS / MENARDS ENTR

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	202
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

10	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
6	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	PEDESTRIAN SIGNAL HEAD
1	EACH	CONTROLLER (M40) AND CABINET (TS1) (COMPLETE)
4	EACH	STREET NAME SIGN PANEL
6	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	UNINTERRUPTABLE POWER SUPPLY
2	EACH	TRAFFIC SIGNAL POST
2	EACH	COMBINATION MAST ARM ASSEMBLY AND POLE

TS 6450
IDOT TACTICS
FORMER EAGLE 2E

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PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND GLEN ELLYN RD/MAIN ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	203
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

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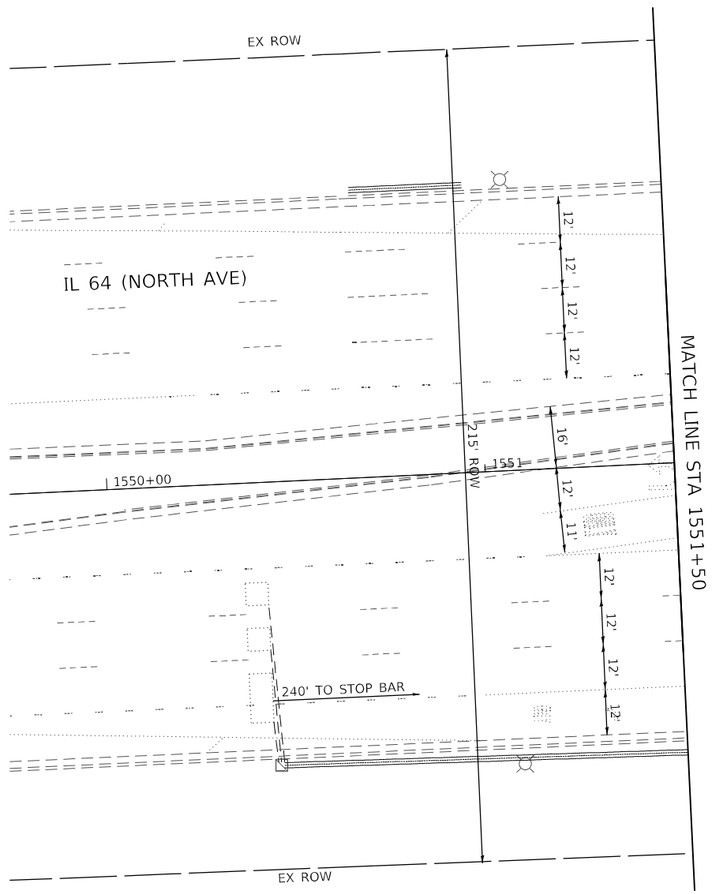

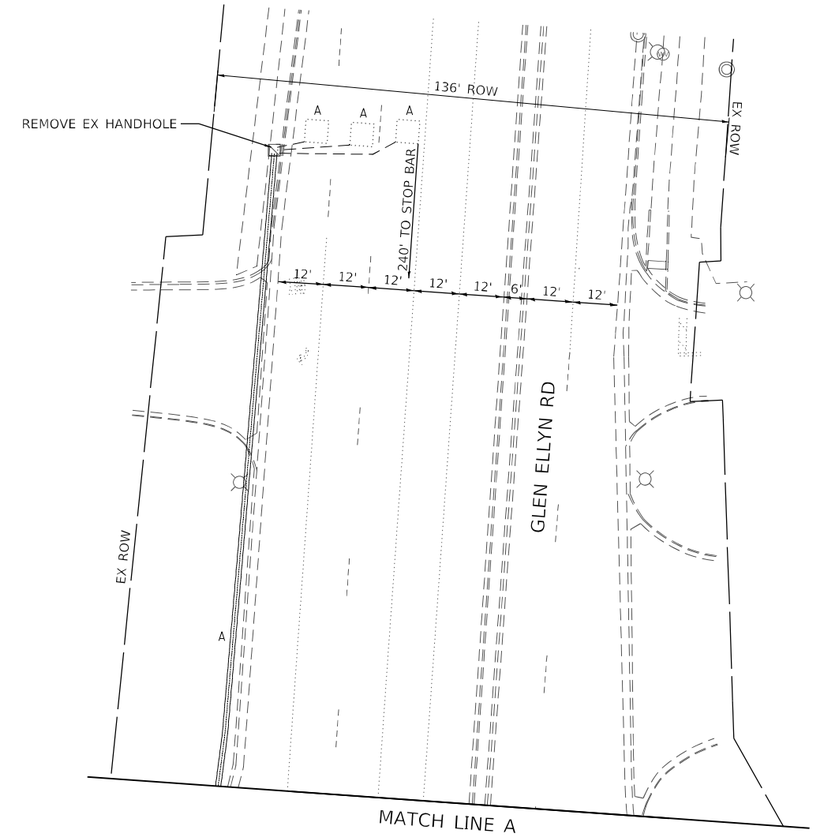

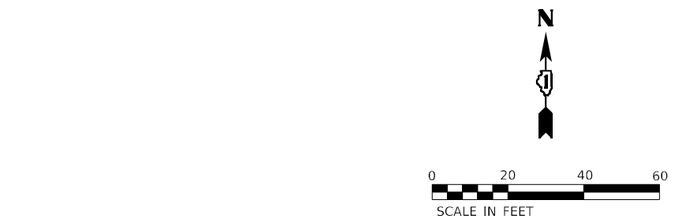

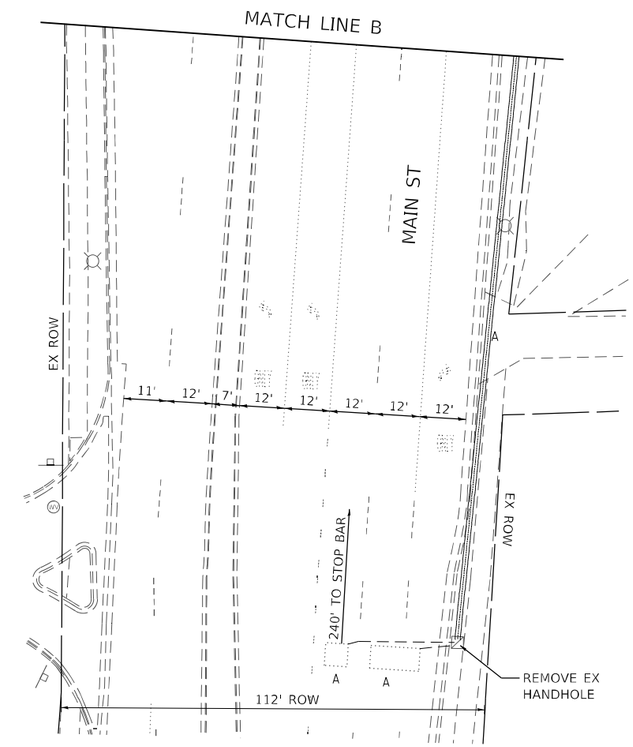

TS 6450
IDOT TACTICS
FORMER EAGLE 2E

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PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

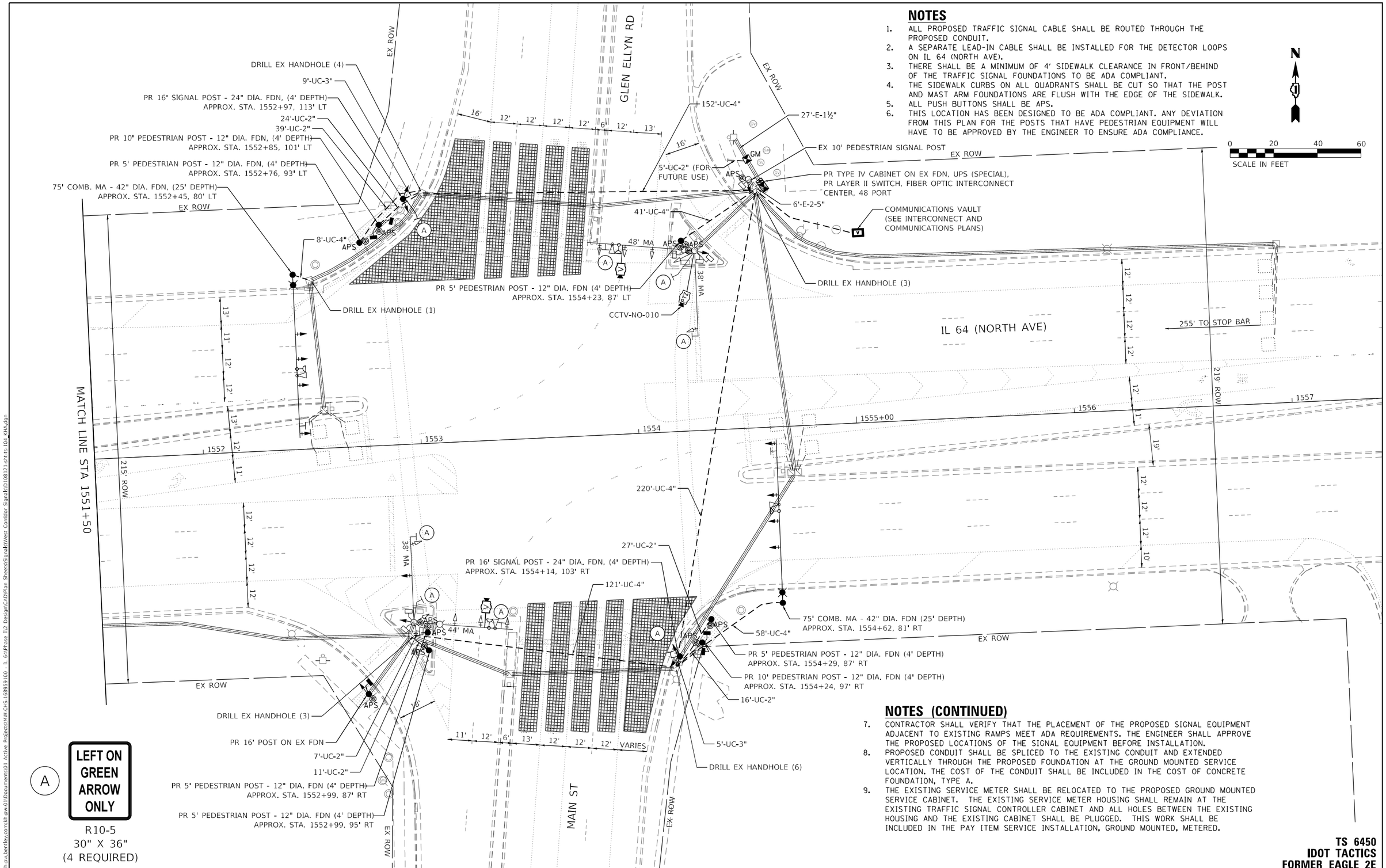
TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND GLEN ELLYN RD/MAIN ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	204
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS ON ALL QUADRANTS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.



NOTES (CONTINUED)

7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.
8. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.
9. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM SERVICE INSTALLATION, GROUND MOUNTED, METERED.

TS 6450
IDOT TACTICS
FORMER EAGLE 2E

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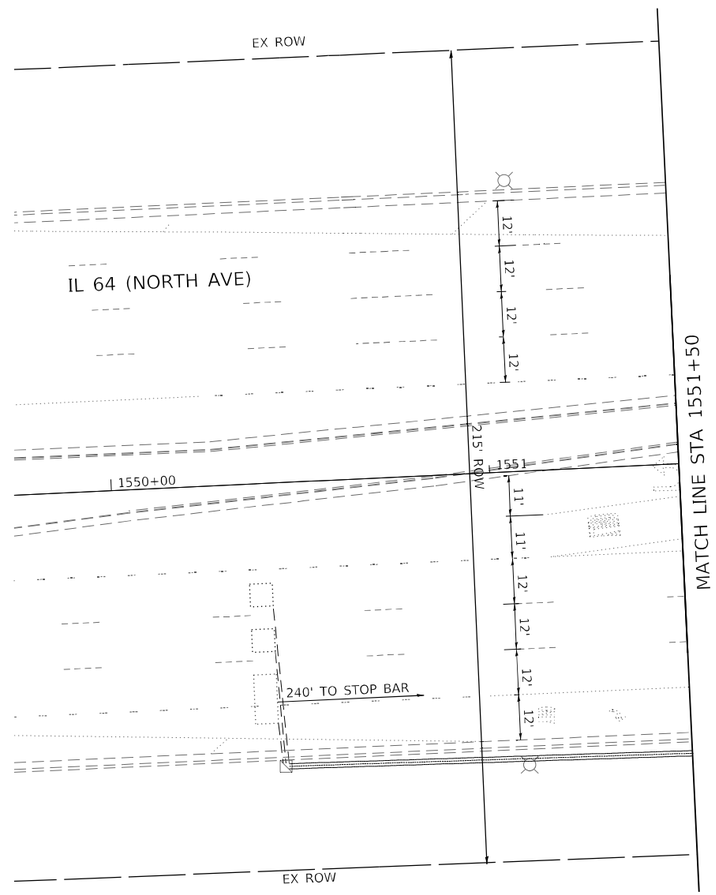
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND GLEN ELLYN RD/MAIN ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	205
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



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SCALE IN FEET

TS 6450
IDOT TACTICS
FORMER EAGLE 2E

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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

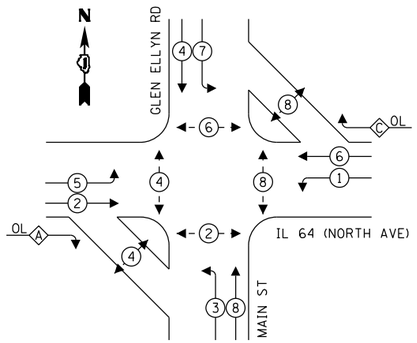
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND GLEN ELLYN RD/MAIN ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	206
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

EXISTING AND PROPOSED CONTROLLER SEQUENCE

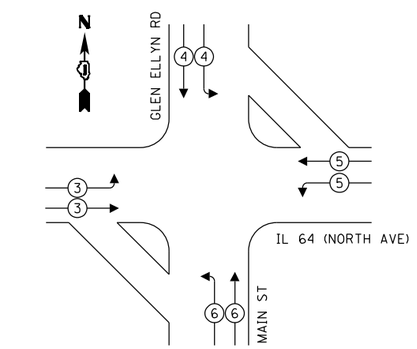


LEGEND:

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

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

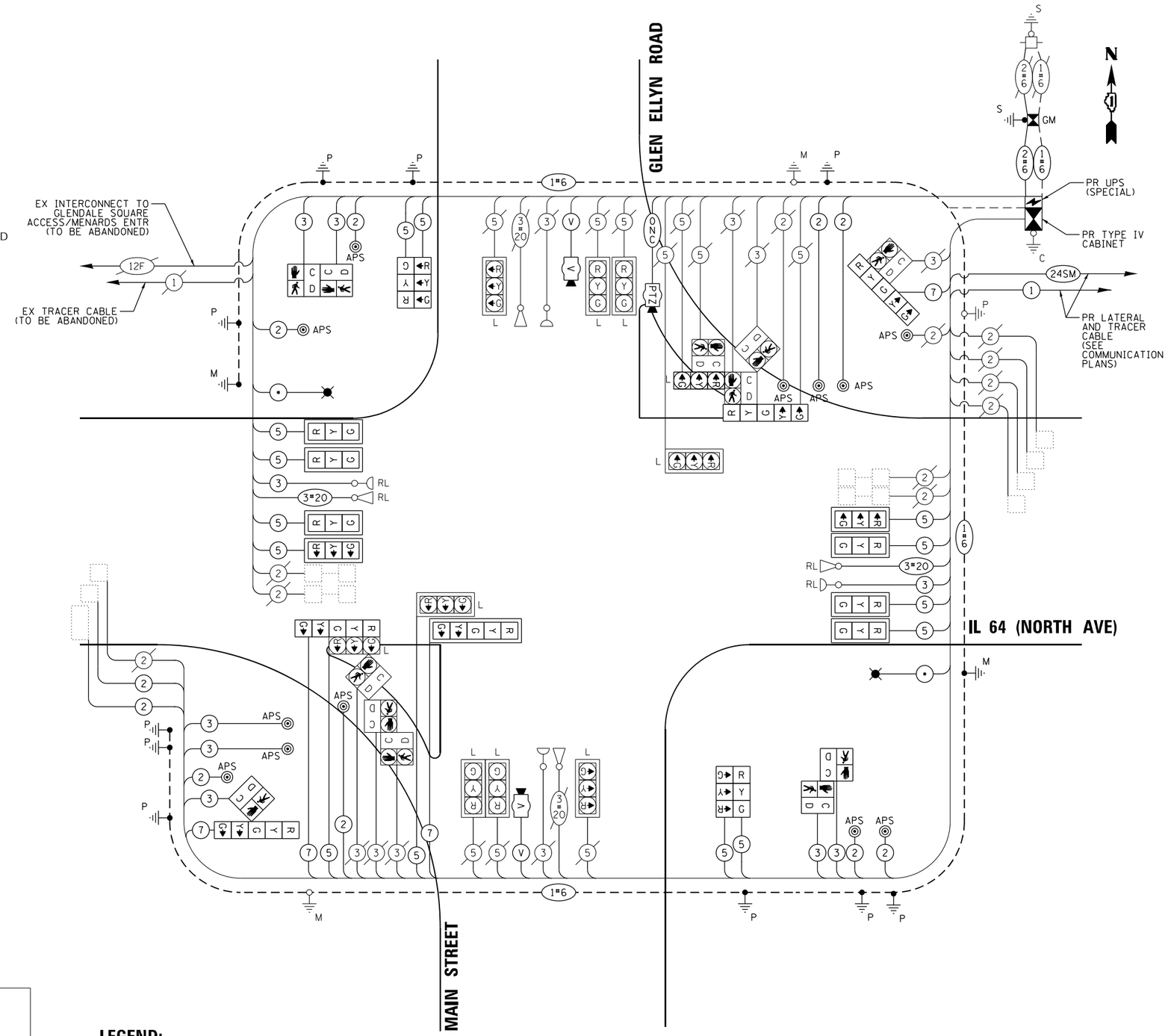


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	22	11	242
	4-SECTION	-	14	-
	5-SECTION	4	13	52
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		12	15	180
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	VIDEO	2	20	40
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	LAYER II OR III	1	35	35
CELLULAR MODEM		-	15	-
		TOTAL UPS SIZING		724
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		2	240	480
		TOTAL SERVICE WIRE SIZING		1809

ENERGY COSTS TO:
VILLAGE OF GLENDALE HEIGHTS
300 CIVIC CENTER PLAZA
GLENDALE HEIGHTS, IL 60139

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 19711-50081



LEGEND:

* = ROADWAY LIGHTING CABLE

CABLE PLAN

(NOT TO SCALE)

TS 6450
IDOT TACTICS
FORMER EAGLE 2E

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PLOT SCALE =	CHECKED -	REVISED -	
PLOT DATE =	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND GLEN ELLYN RD/MAIN ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	207
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20	2	ZZ	1

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20	2	ZZ	1

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	30
	SIGN PANEL - TYPE 2	SQ FT	65
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	129
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	14
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	600
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2422
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2235
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4072
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	939
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1184
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	45
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	788
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 75 FT.	EACH	2
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50
	DRILL EXISTING HANDHOLE	EACH	17
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	5
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
	INDUCTIVE LOOP DETECTOR	EACH	2
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9668
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	2
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	773
	LED LAMP MODULE REPLACEMENT	EACH	30
	OUTDOOR RATED NETWORK CABLE	FOOT	141
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	5
	TACTICS LICENSE EXPANSION	EACH	1
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	12
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	32
	LED SIGNAL FACE, LENS COVER	EACH	27
	CAMERA MOUNTING ASSEMBLY	EACH	1

* - 100% COST TO THE VILLAGE OF GLENDALE HEIGHTS

TS 6450
IDOT TACTICS
FORMER EAGLE 2E

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	DRAWN - JRR	REVISED -	
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PLOT DATE =	DATE - 3/21/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

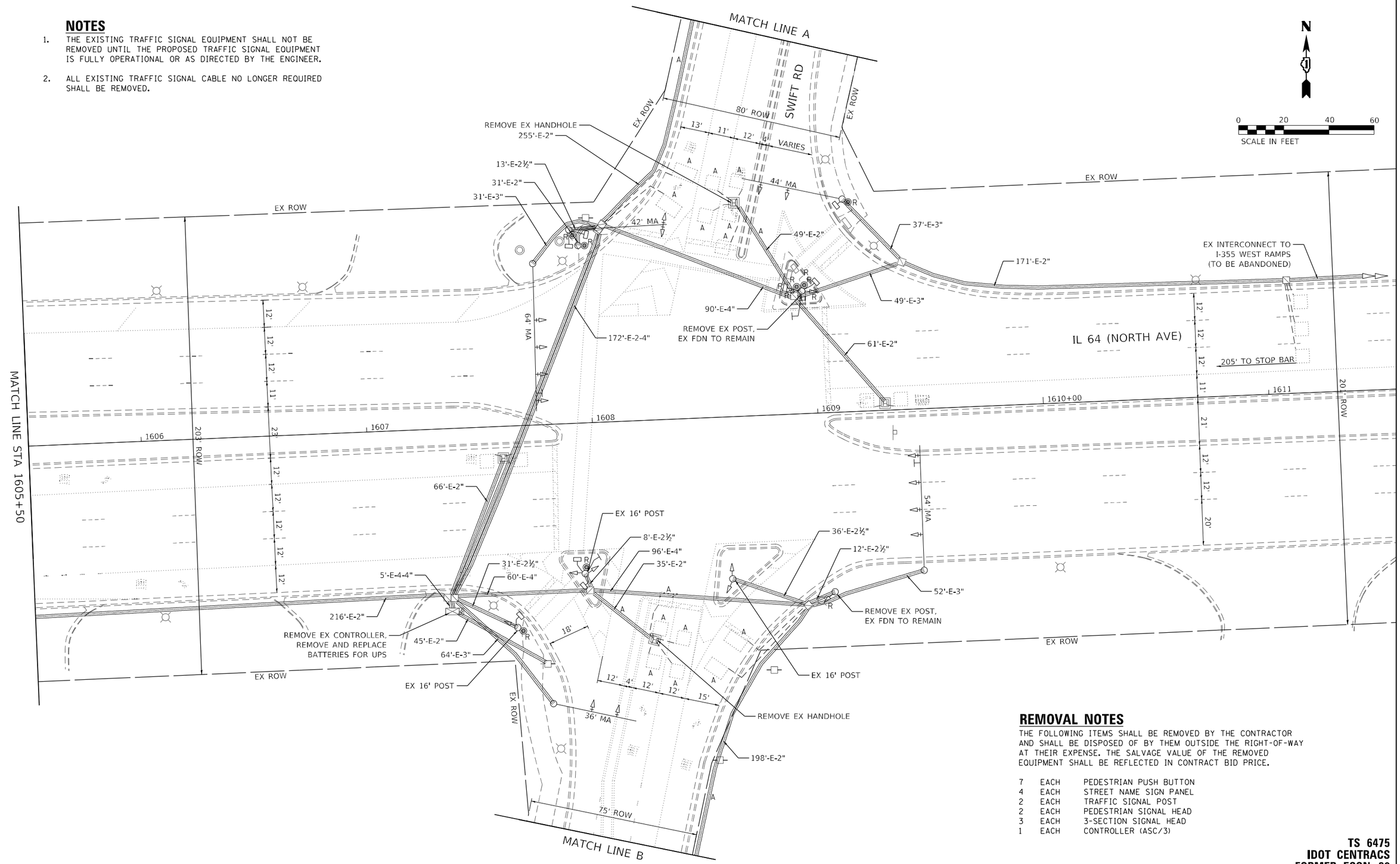
MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND GLEN ELLYN RD/MAIN ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	208
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

7	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	STREET NAME SIGN PANEL
2	EACH	TRAFFIC SIGNAL POST
2	EACH	PEDESTRIAN SIGNAL HEAD
3	EACH	3-SECTION SIGNAL HEAD
1	EACH	CONTROLLER (ASC/3)

TS 6475
IDOT CENTRACS
FORMER ECON 39

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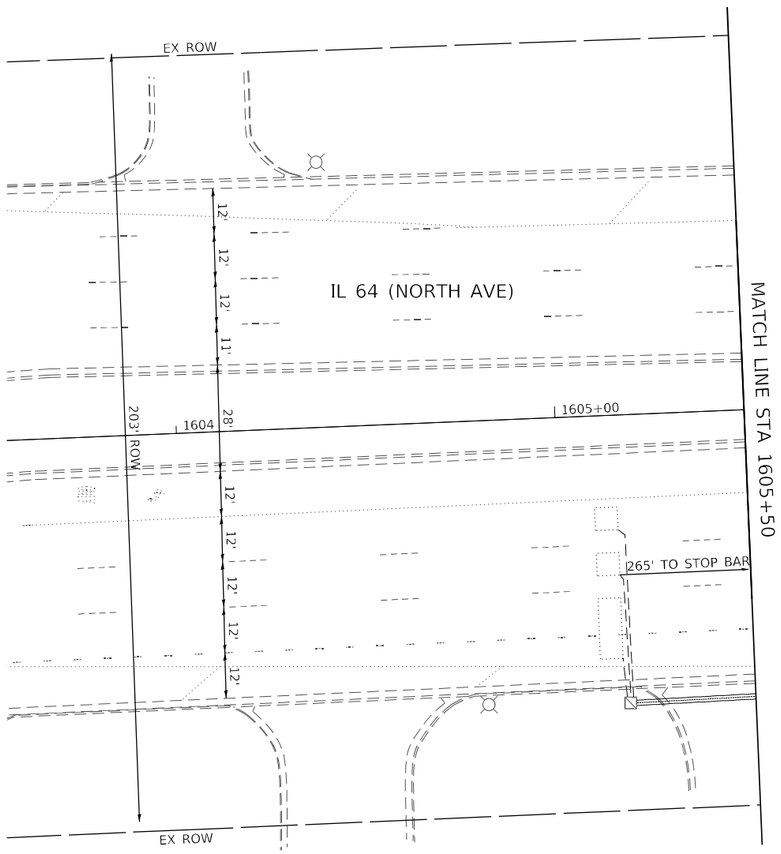
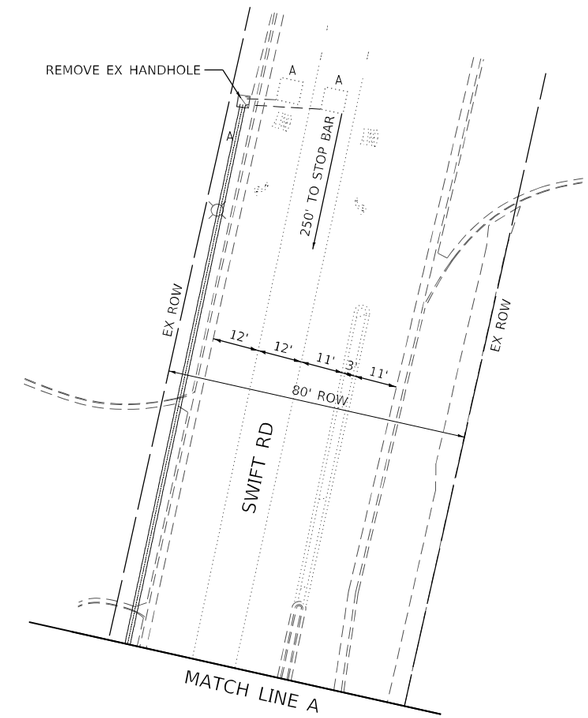
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

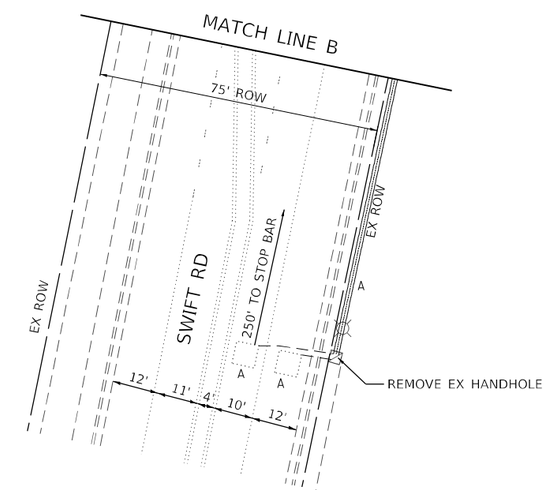
TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND SWIFT RD

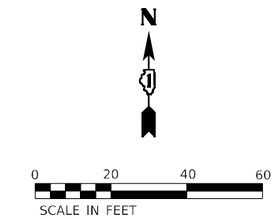
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	209
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		









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IDOT CENTRACS
FORMER ECON 39

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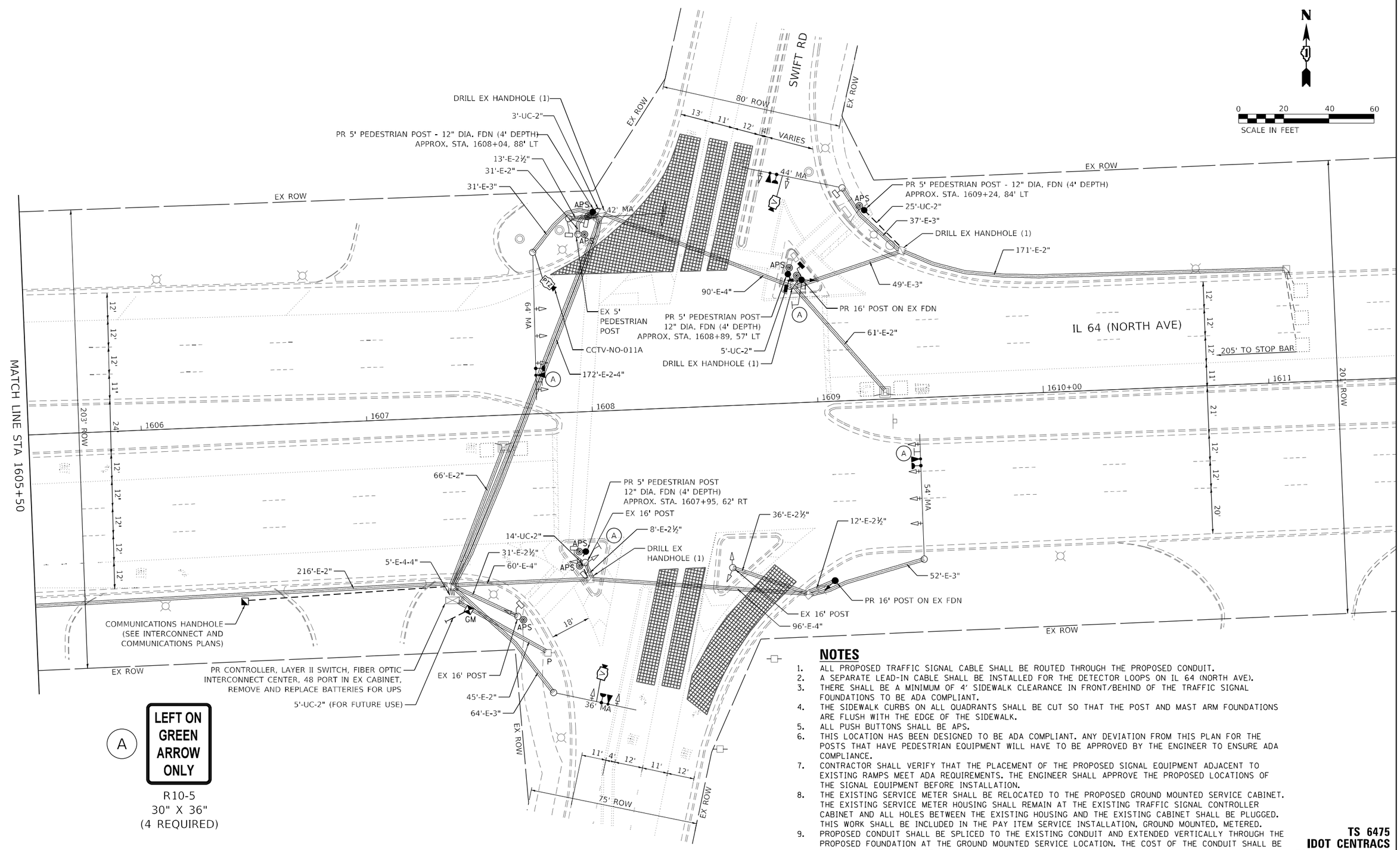
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND SWIFT RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	210
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS ON ALL QUADRANTS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.
8. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM SERVICE INSTALLATION, GROUND MOUNTED, METERED.
9. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

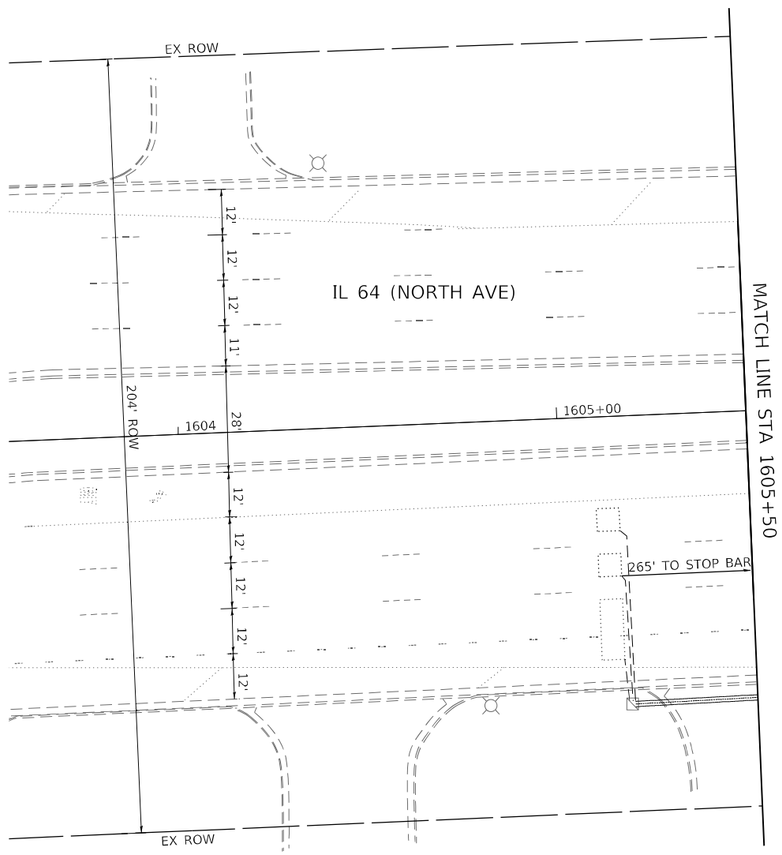
TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND SWIFT RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	211

CONTRACT NO. 62N33

ILLINOIS | FED. AID PROJECT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

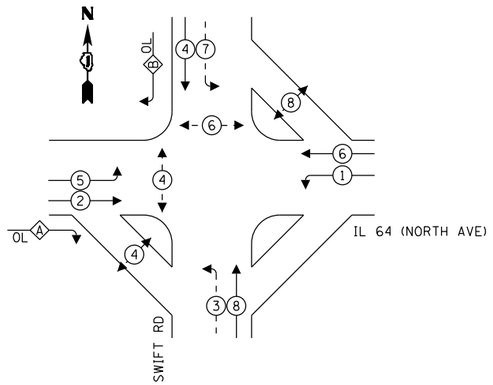
TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND SWIFT RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	212
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

EXISTING AND PROPOSED CONTROLLER SEQUENCE

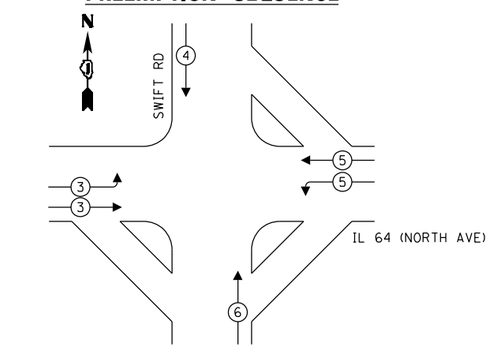
OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5



LEGEND:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

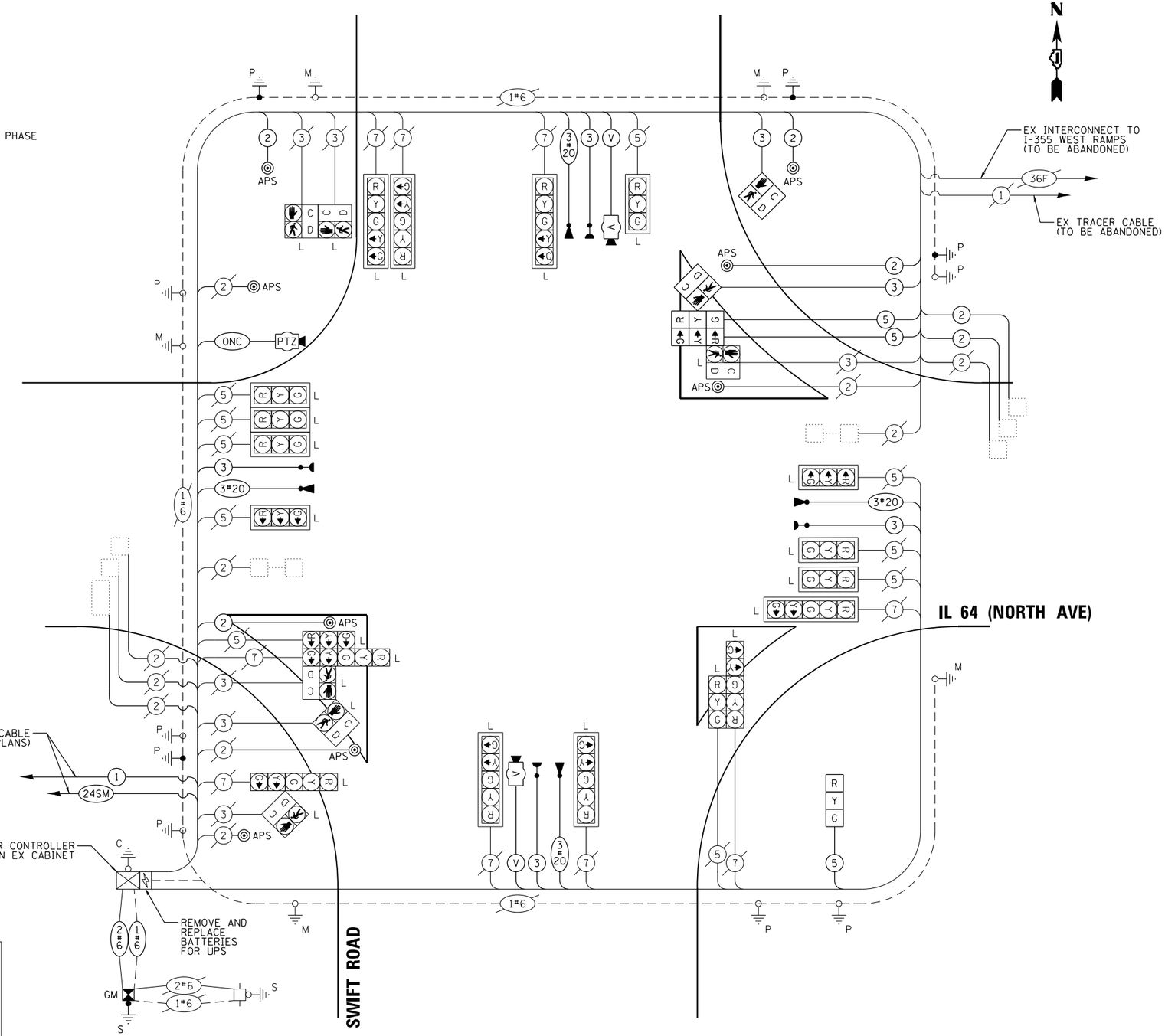
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	13	11	143
4-SECTION	-	14	-
5-SECTION	9	13	117
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH LAYER II OR III	1	35	35
CELLULAR MODEM	-	15	-
PTZ	1	75	75
TOTAL UPS SIZING			705
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1310

LEGEND:

L = LED LAMP MODULE REPLACEMENT

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY:
CONTACT: ANTONIO RIOS
PHONE: (630) 696-6855
COMPANY: COMED
ACCOUNT NUMBER: 50670-93025
METER NUMBER:



CABLE PLAN

(NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND SWIFT RD

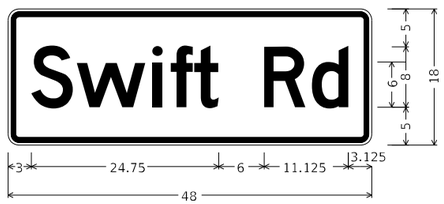
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	213
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	42
	SIGN PANEL - TYPE 2	SQ FT	25
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	67
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1036
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1270
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	859
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	968
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	76
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	143
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	CONCRETE FOUNDATION, TYPE A	FOOT	4
	DRILL EXISTING HANDHOLE	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
	INDUCTIVE LOOP DETECTOR	EACH	2
*	LIGHT DETECTOR	EACH	4
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3165
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	4
	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1270
	CENTRACS LICENSE EXPANSION	EACH	1
	LED LAMP MODULE REPLACEMENT	EACH	75
	OUTDOOR RATED NETWORK CABLE	FOOT	462
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	4
	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
	LED SIGNAL FACE, LENS COVER	EACH	22
	LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	18
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
	CAMERA MOUNTING ASSEMBLY	EACH	1

* - 100% COST TO THE TOWNSHIP OF MILTON

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PLOT DATE =	DATE -	REVISED -

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DEPARTMENT OF TRANSPORTATION

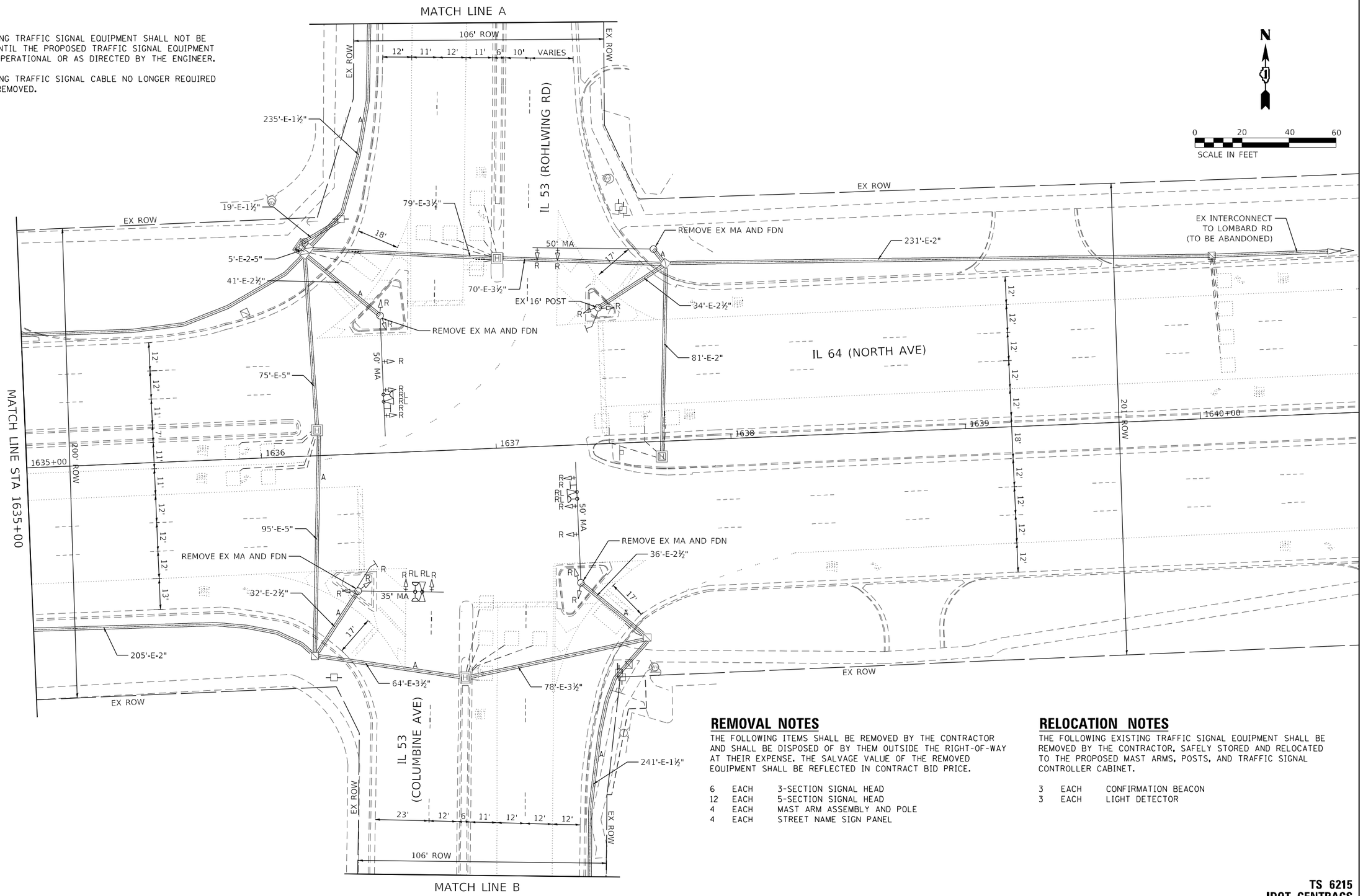
MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND SWIFT RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	214
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

6	EACH	3-SECTION SIGNAL HEAD
12	EACH	5-SECTION SIGNAL HEAD
4	EACH	MAST ARM ASSEMBLY AND POLE
4	EACH	STREET NAME SIGN PANEL

RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

3	EACH	CONFIRMATION BEACON
3	EACH	LIGHT DETECTOR

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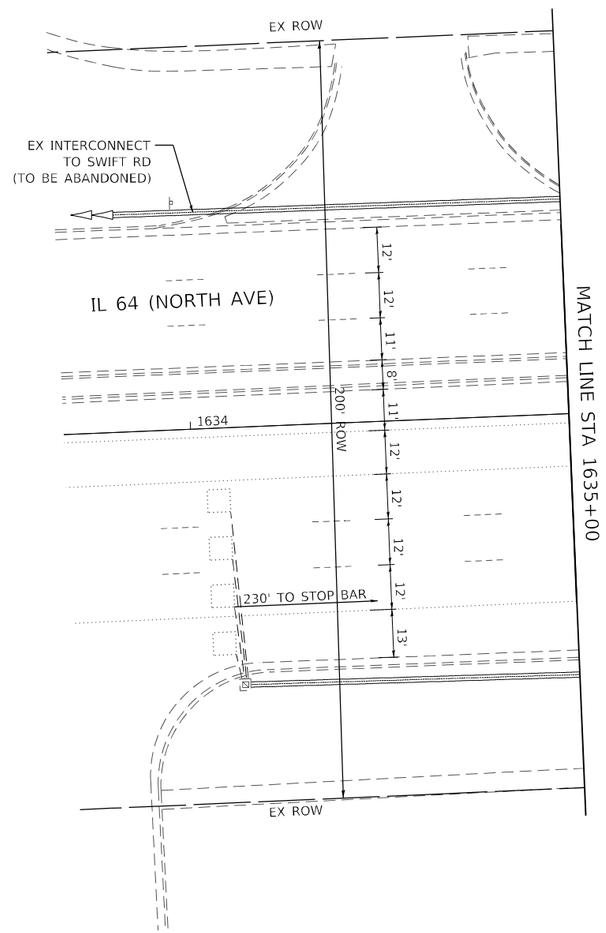
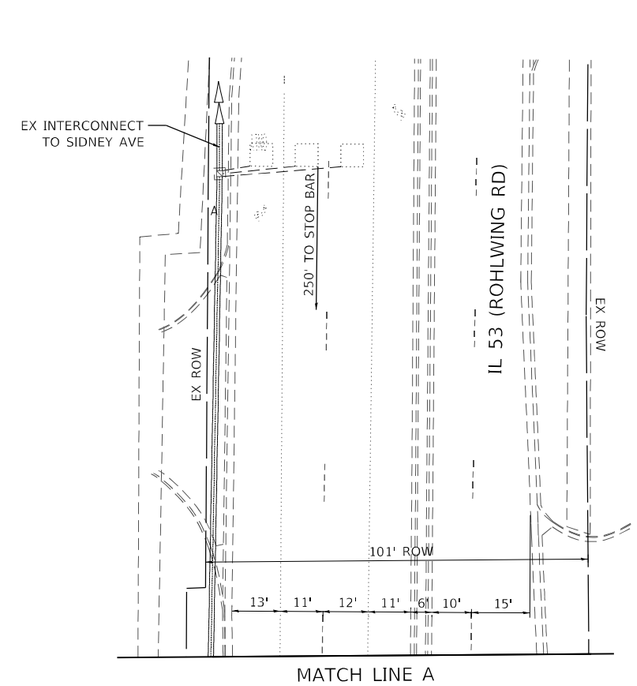
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

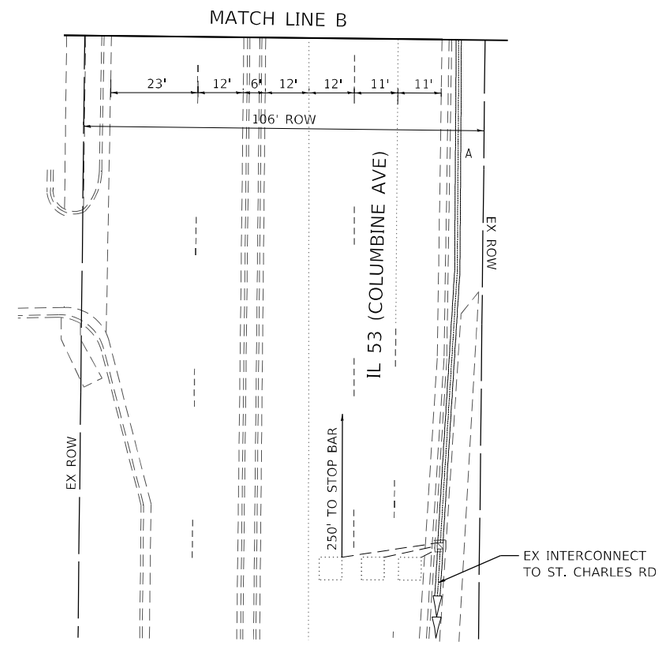
TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND IL 53 (ROHLWING RD)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	215
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	







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TS 6215
IDOT CENTRACS
FORMER ECON 39

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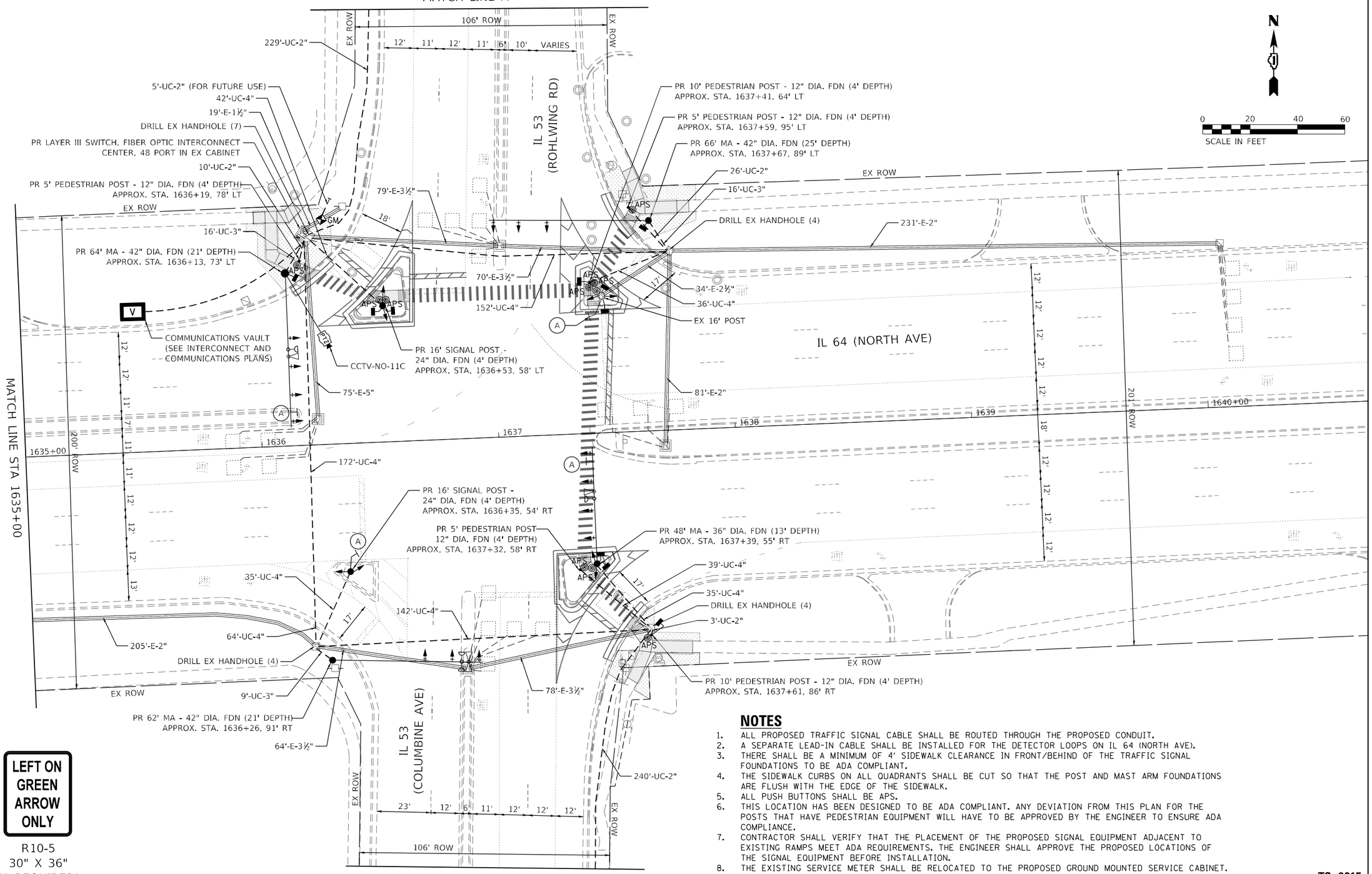
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND IL 53 (ROHLWING RD)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	216
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	



A

LEFT ON GREEN ARROW ONLY

R10-5
30" X 36"
(4 REQUIRED)

NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS ON ALL QUADRANTS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.
8. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM SERVICE INSTALLATION, GROUND MOUNTED, METERED.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

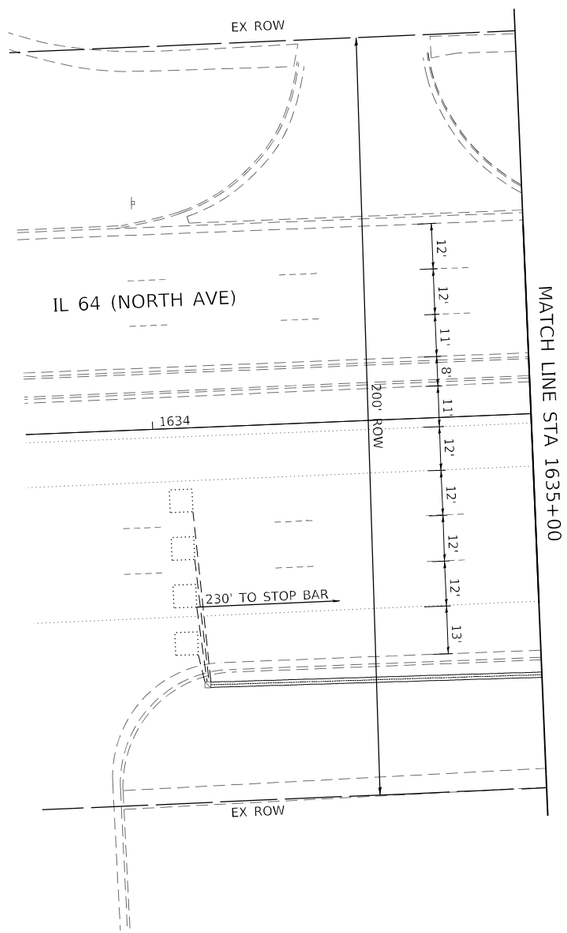
TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND IL 53 (ROHLWING RD)

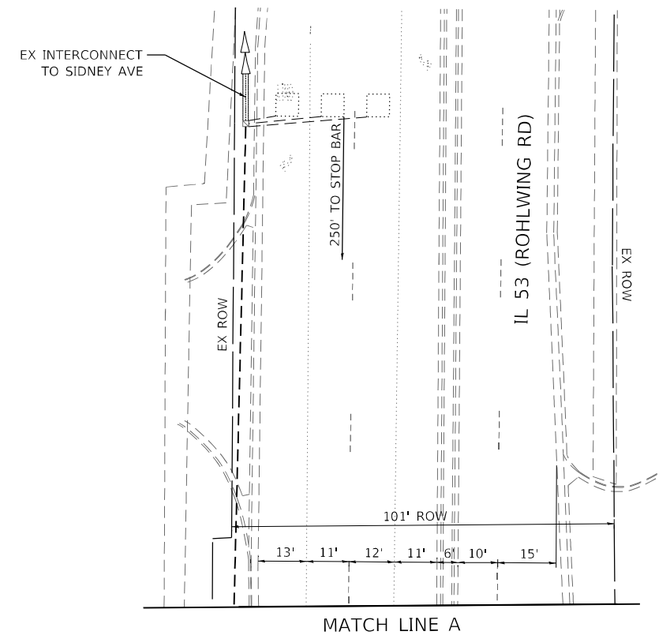
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

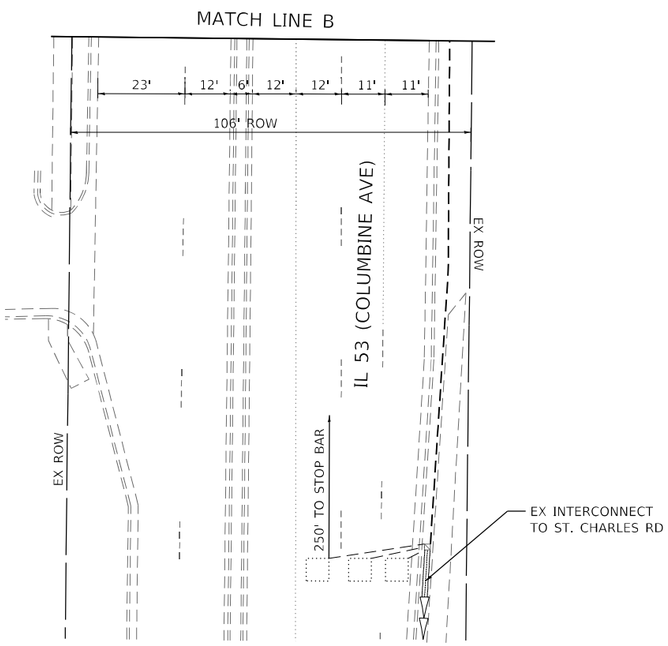
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	217

CONTRACT NO. 62N33

ILLINOIS | FED. AID PROJECT







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SCALE IN FEET

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IDOT CENTRACS
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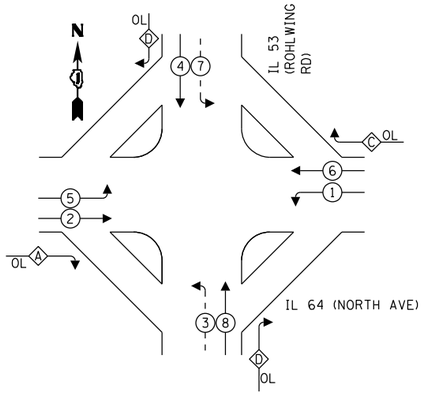
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND IL 53 (ROHLWING RD)

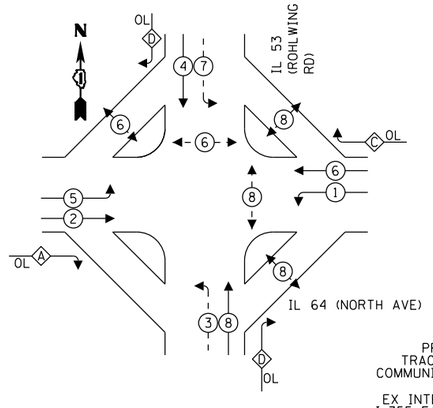
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	218
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

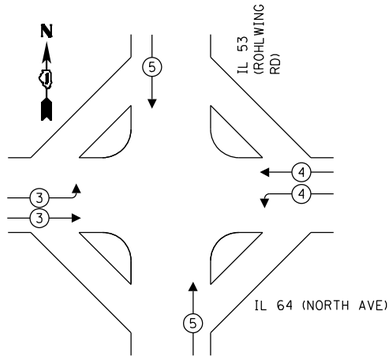
EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED EMEMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

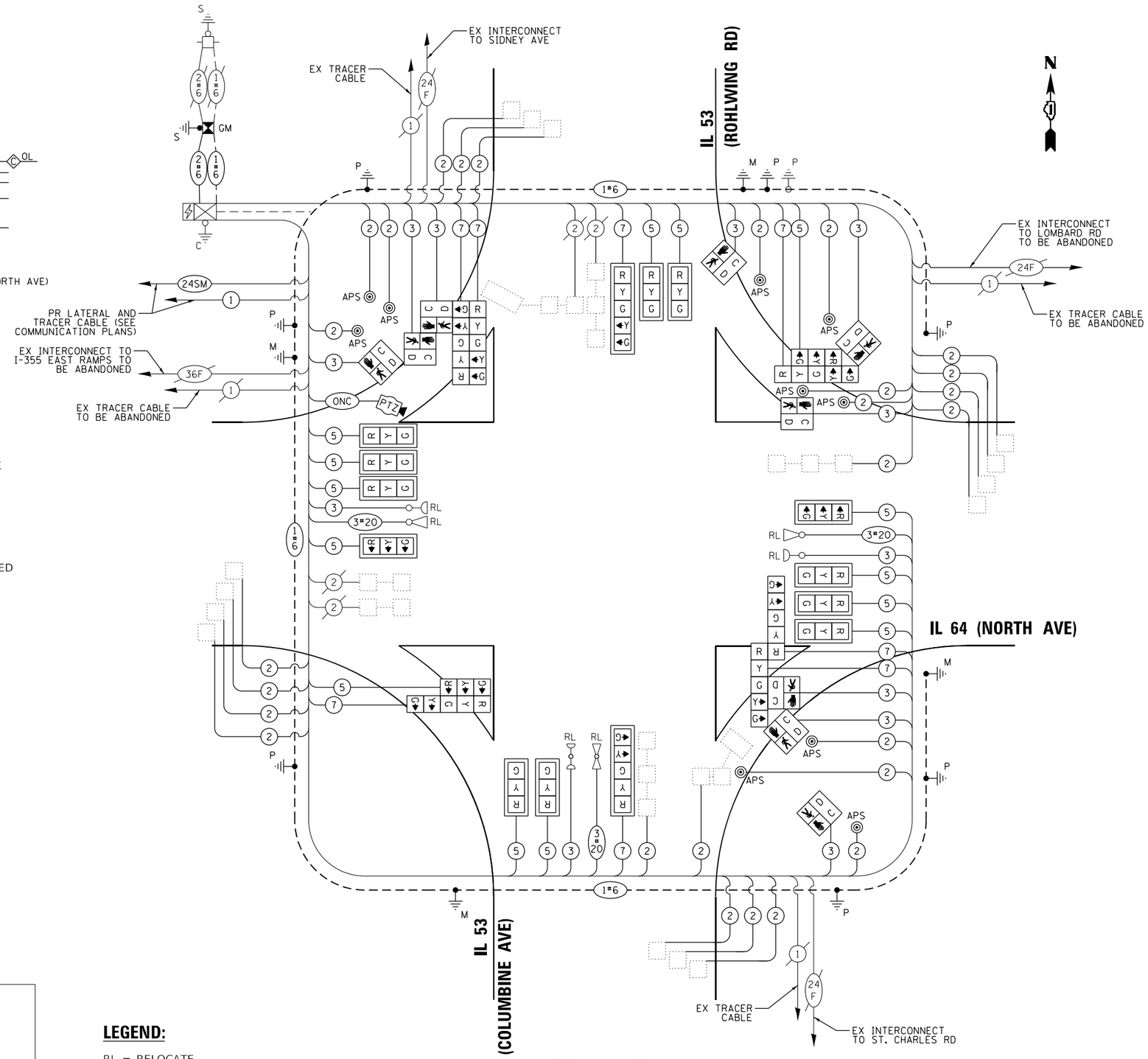
OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	6	+	7
D	=	8	+	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	10	11	110
	4-SECTION	-	14	-
	5-SECTION	12	13	156
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		10	15	150
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	VIDEO	-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	LAYER II OR III	1	35	35
CELLULAR MODEM		-	15	-
		TOTAL UPS SIZING		626
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
		TOTAL SERVICE WIRE SIZING		1231

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 50670-93024



LEGEND:

RL = RELOCATE

CABLE PLAN

(NOT TO SCALE)

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STATE OF ILLINOIS
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CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND IL 53 (ROHLWING RD)

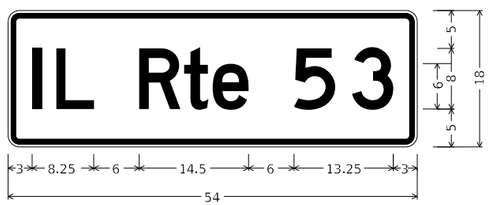
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	219
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	43.5
	SIGN PANEL - TYPE 2	SQ FT	25
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	513
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	41
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	717
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2396
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3590
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4067
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2210
	ELECTRIC CABLE IN CONDUIT, LEAD-IN. NO. 14 1 PAIR	FOOT	3360
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	41
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1312
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 64 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	67
	DRILL EXISTING HANDHOLE	EACH	19
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	9
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	12263
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1198
	CENTRACS LICENSE EXPANSION	EACH	1
	TERMINAL SERVER	EACH	1
	OUTDOOR RATED NETWORK CABLE	FOOT	131
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20
	LED SIGNAL FACE, LENS COVER	EACH	22
	CAMERA MOUNTING ASSEMBLY	EACH	1

* - 100% COST TO THE VILLAGE OF LOMBARD

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DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND IL 53 (ROHLWING RD)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	220
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

NOTES

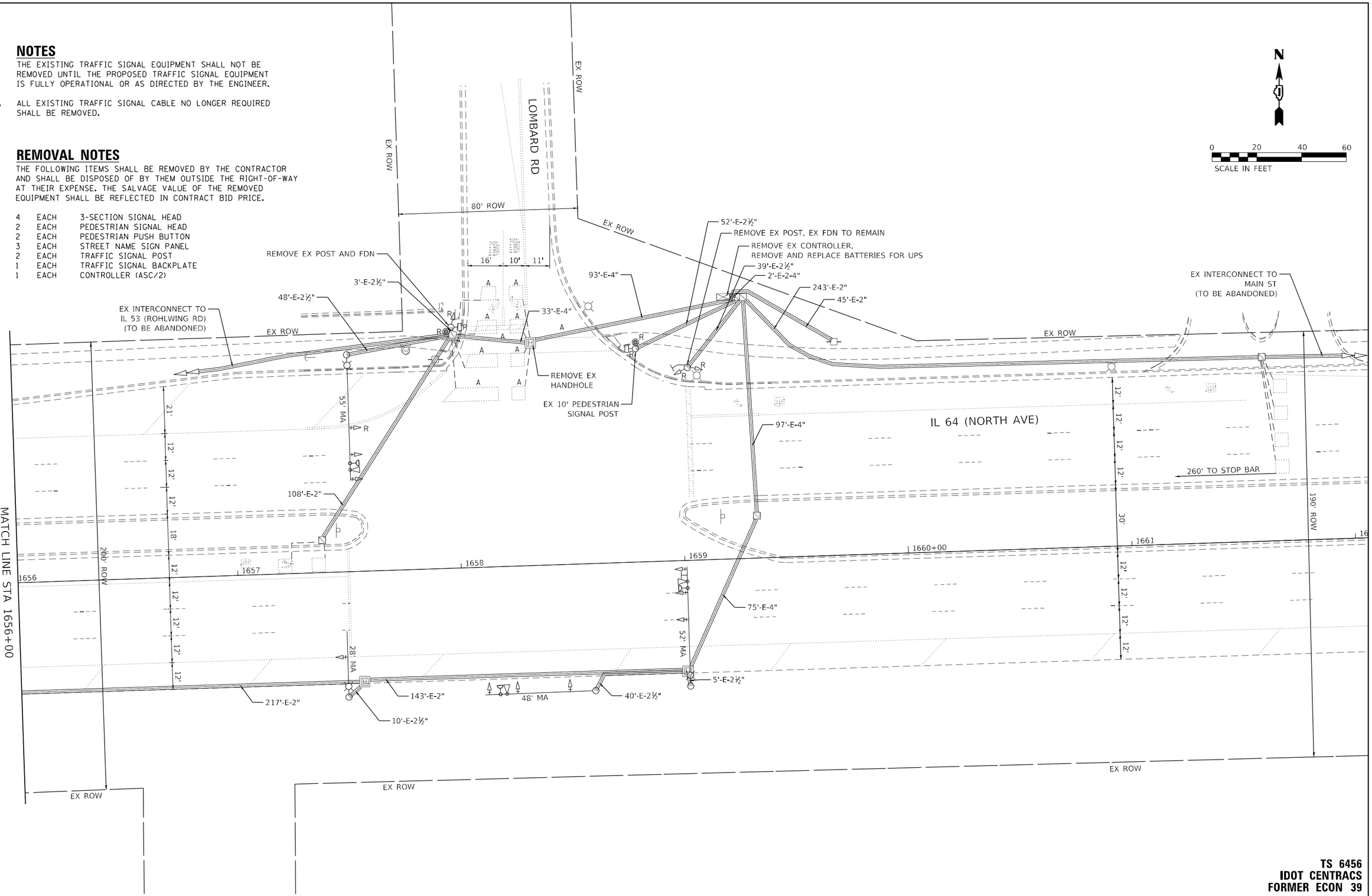
1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.

2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

4	EACH	3-SECTION SIGNAL HEAD
2	EACH	PEDESTRIAN SIGNAL HEAD
2	EACH	PEDESTRIAN PUSH BUTTON
3	EACH	STREET NAME SIGN PANEL
2	EACH	TRAFFIC SIGNAL POST
1	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	CONTROLLER (ASC/2)



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TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND LOMBARD RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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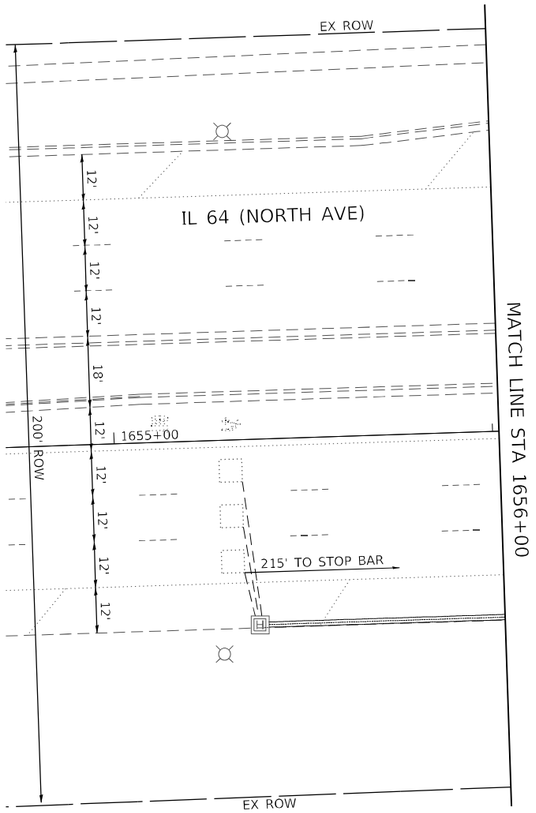
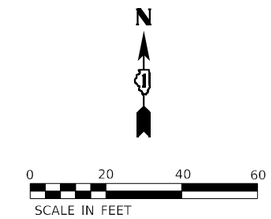
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

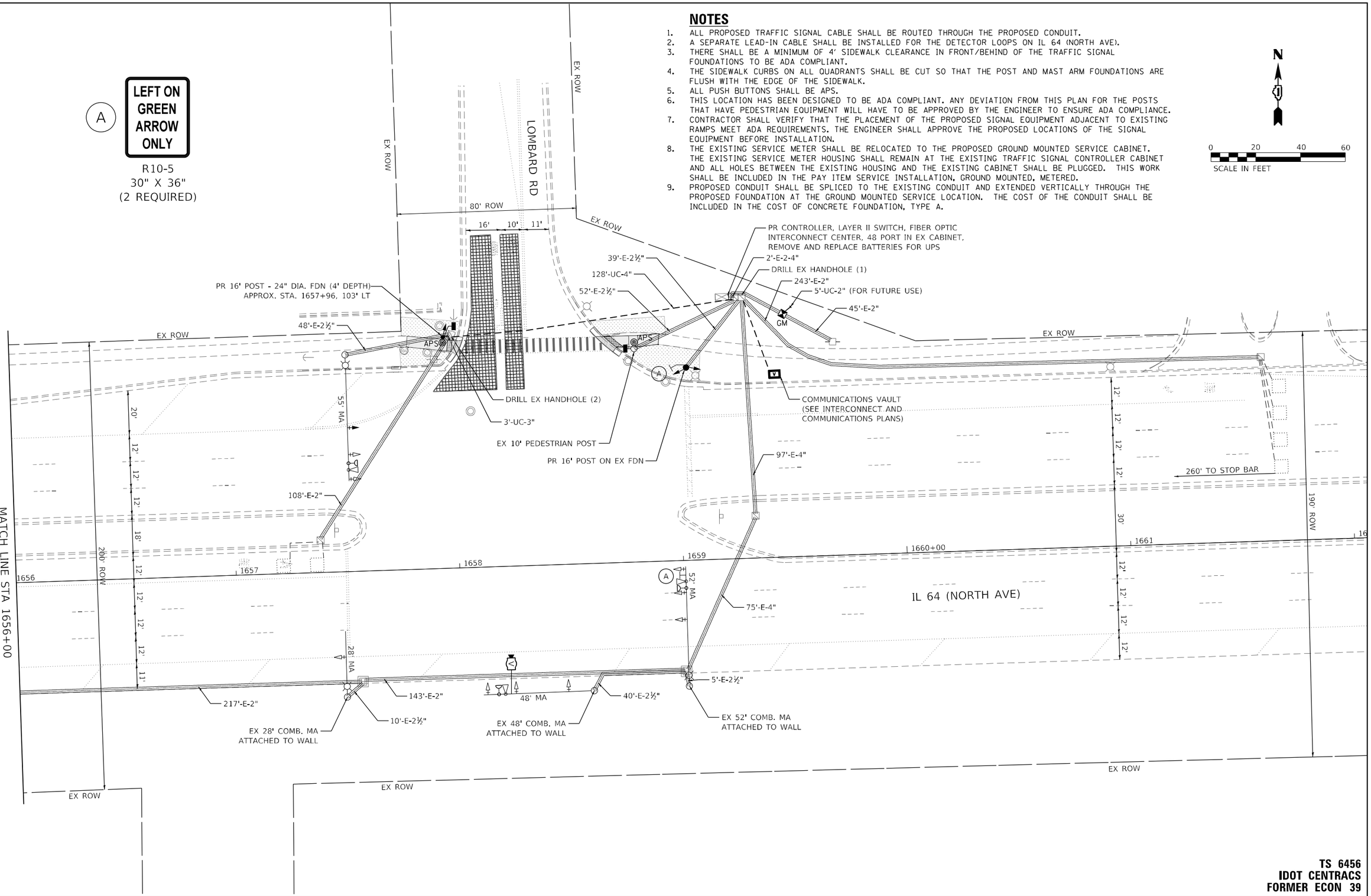
TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND LOMBARD RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	222
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS ON ALL QUADRANTS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.
8. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM SERVICE INSTALLATION, GROUND MOUNTED, METERED.
9. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.



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IDOT CENTRACS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND LOMBARD RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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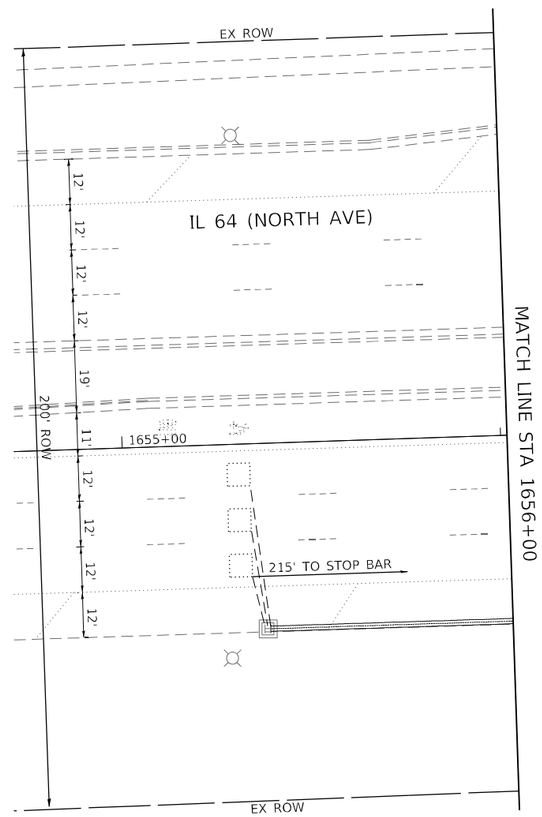
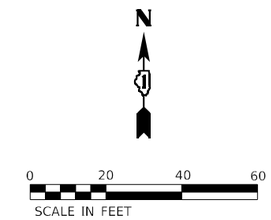
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	





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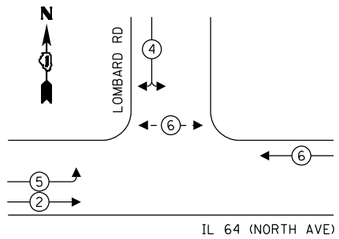
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND LOMBARD RD

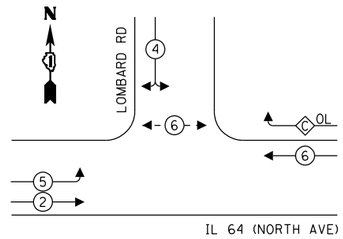
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	224
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE

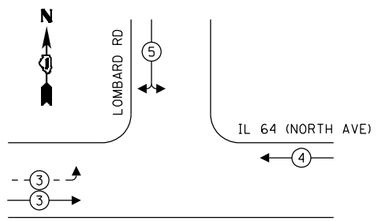


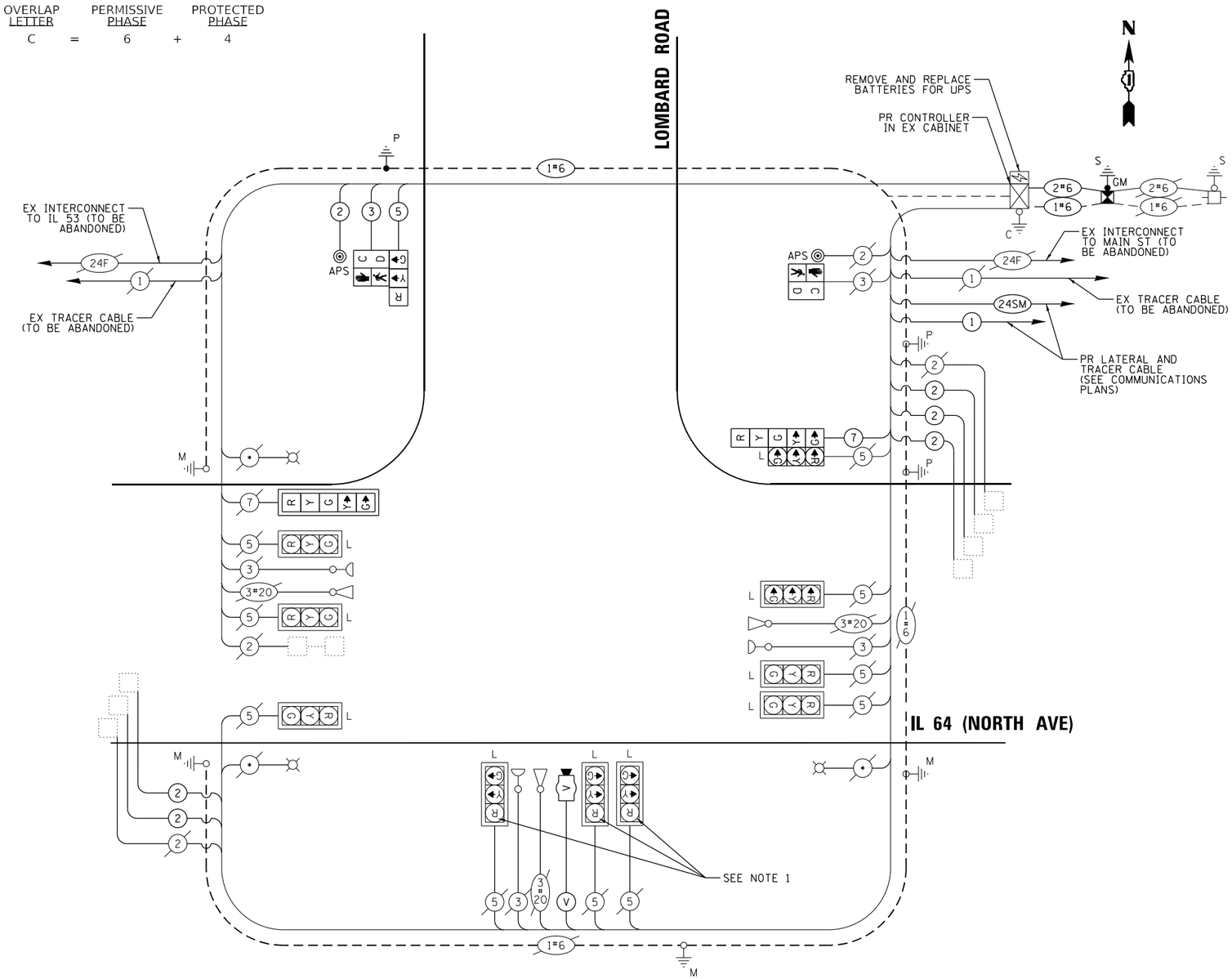
OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
C	=	6	+	4

LEGEND:

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

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	11	11	121
	4-SECTION	-	14	-
	5-SECTION	2	13	26
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		2	15	30
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	VIDEO	1	20	20
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	LAYER II OR III	1	35	35
CELLULAR MODEM		-	15	-
TOTAL UPS SIZING				407
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
TOTAL SERVICE WIRE SIZING				1012

ENERGY COSTS TO:
VILLAGE OF LOMBARD
255 E WILSON AVE
LOMBARD, IL 60148-3926

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 55950-38024

NOTES

1. EX RED ARROW SHALL BE CHANGED TO RED BALL DURING LED MODULE REPLACEMENT.

LEGEND:

L = LED LAMP MODULE REPLACEMENT
* = ROADWAY LIGHTING CABLE

CABLE PLAN

(NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND LOMBARD RD

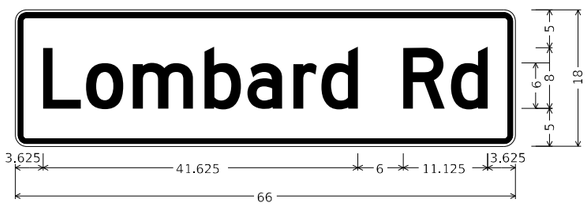
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	225
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	8.25	1	ZZ	2

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	31.5
SIGN PANEL - TYPE 2	SQ FT	25.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	128
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	178
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	178
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	258
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1793
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	62
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	193
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	5
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	614
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
LED LAMP MODULE REPLACEMENT	EACH	30
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
LED SIGNAL FACE VISOR HEATER	EACH	13
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1

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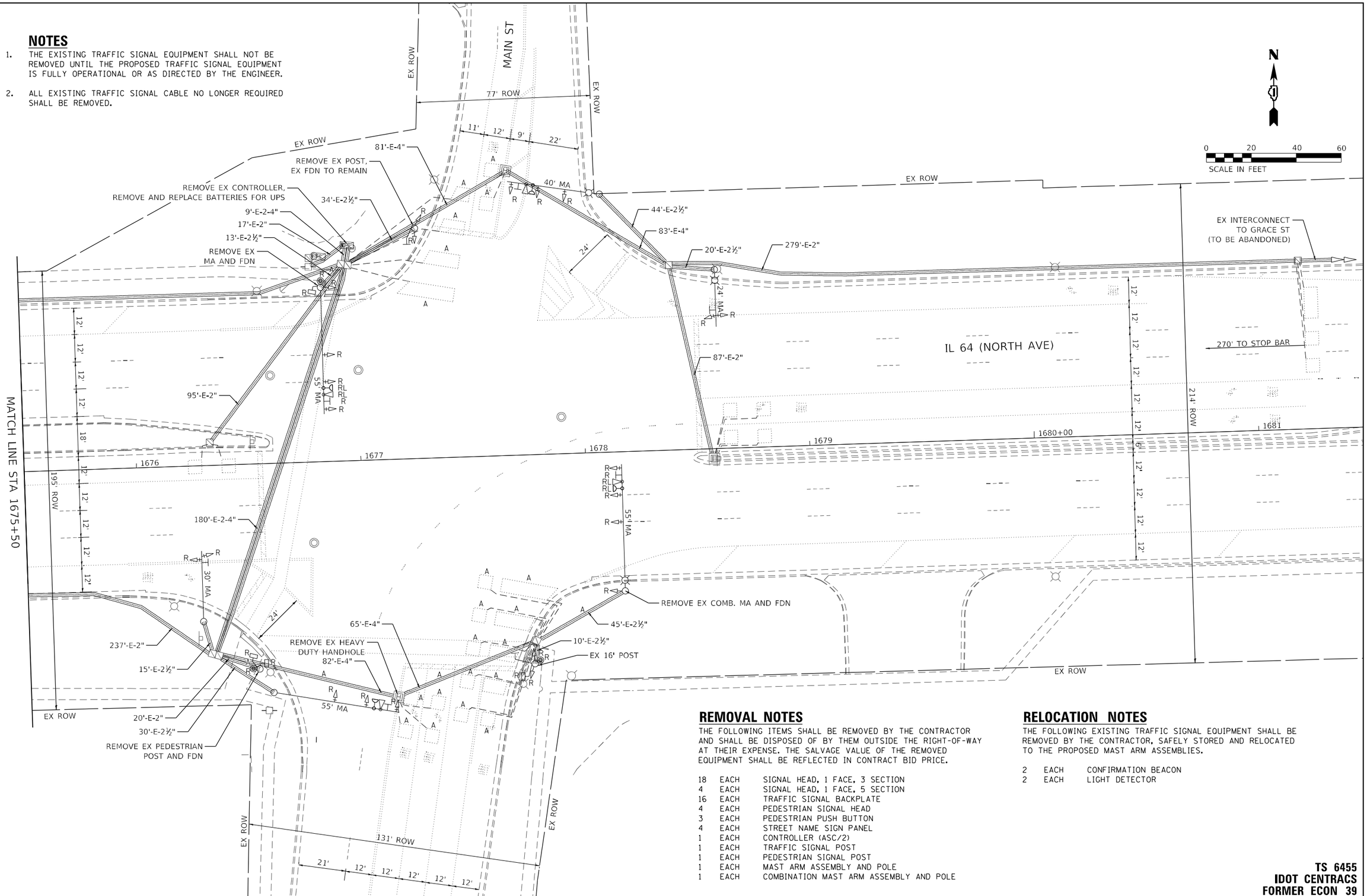
MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND LOMBARD RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	226
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

18	EACH	SIGNAL HEAD, 1 FACE, 3 SECTION
4	EACH	SIGNAL HEAD, 1 FACE, 5 SECTION
16	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	PEDESTRIAN SIGNAL HEAD
3	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	STREET NAME SIGN PANEL
1	EACH	CONTROLLER (ASC/2)
1	EACH	TRAFFIC SIGNAL POST
1	EACH	PEDESTRIAN SIGNAL POST
1	EACH	MAST ARM ASSEMBLY AND POLE
1	EACH	COMBINATION MAST ARM ASSEMBLY AND POLE

RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES.

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR

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TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND MAIN ST

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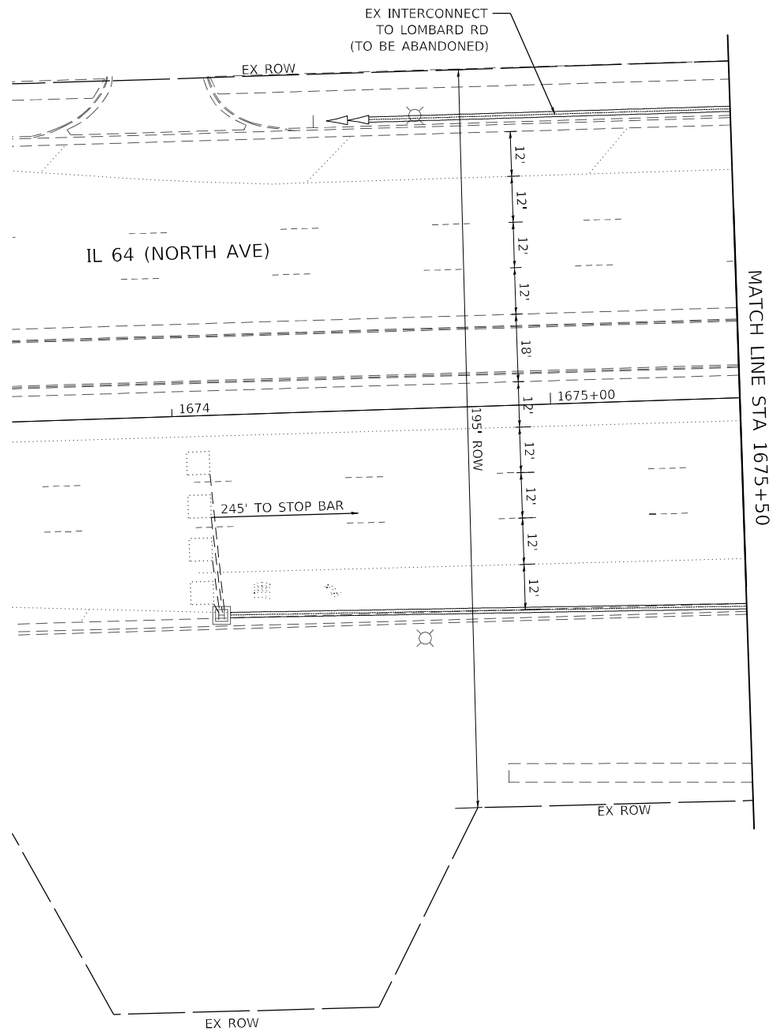

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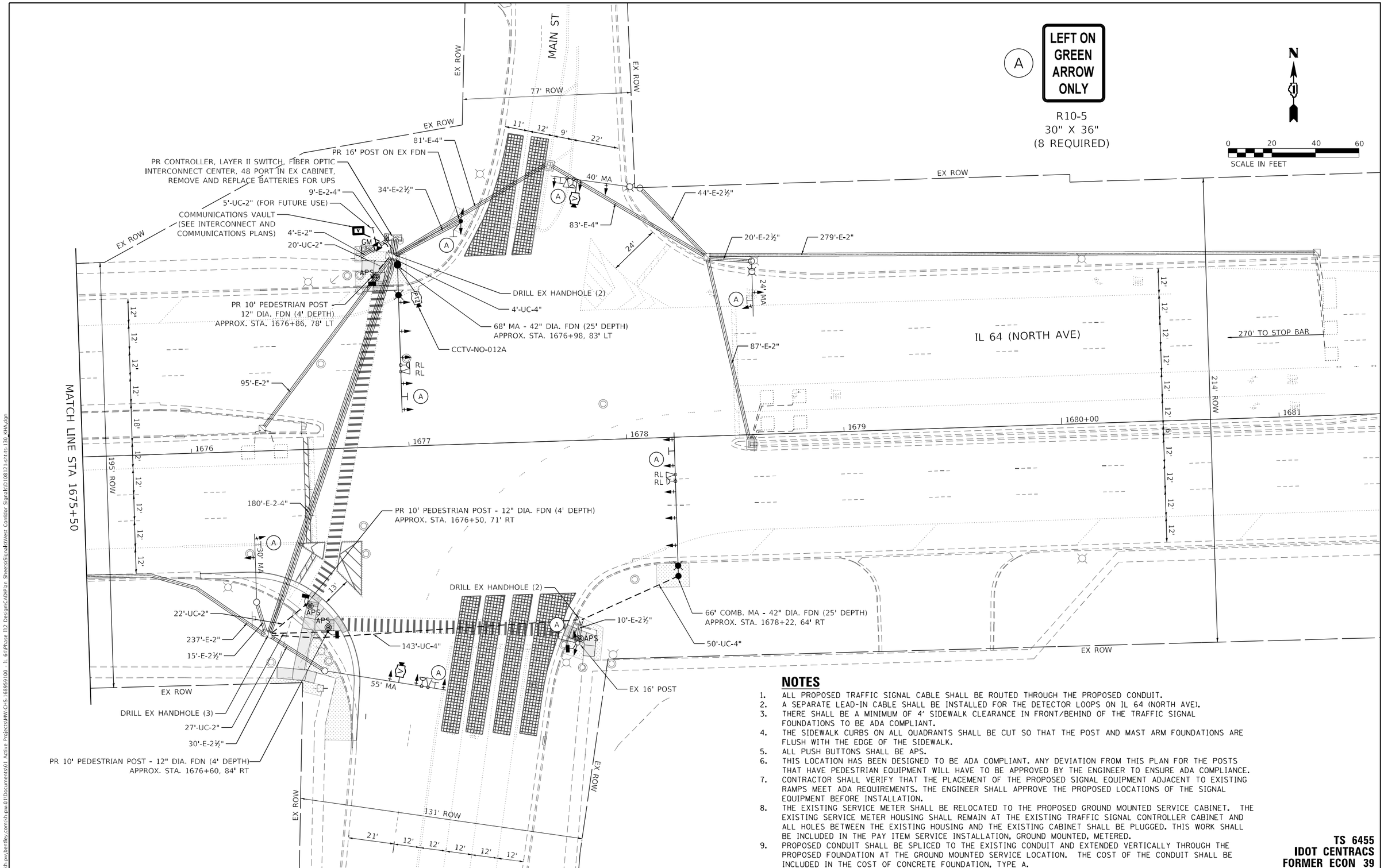

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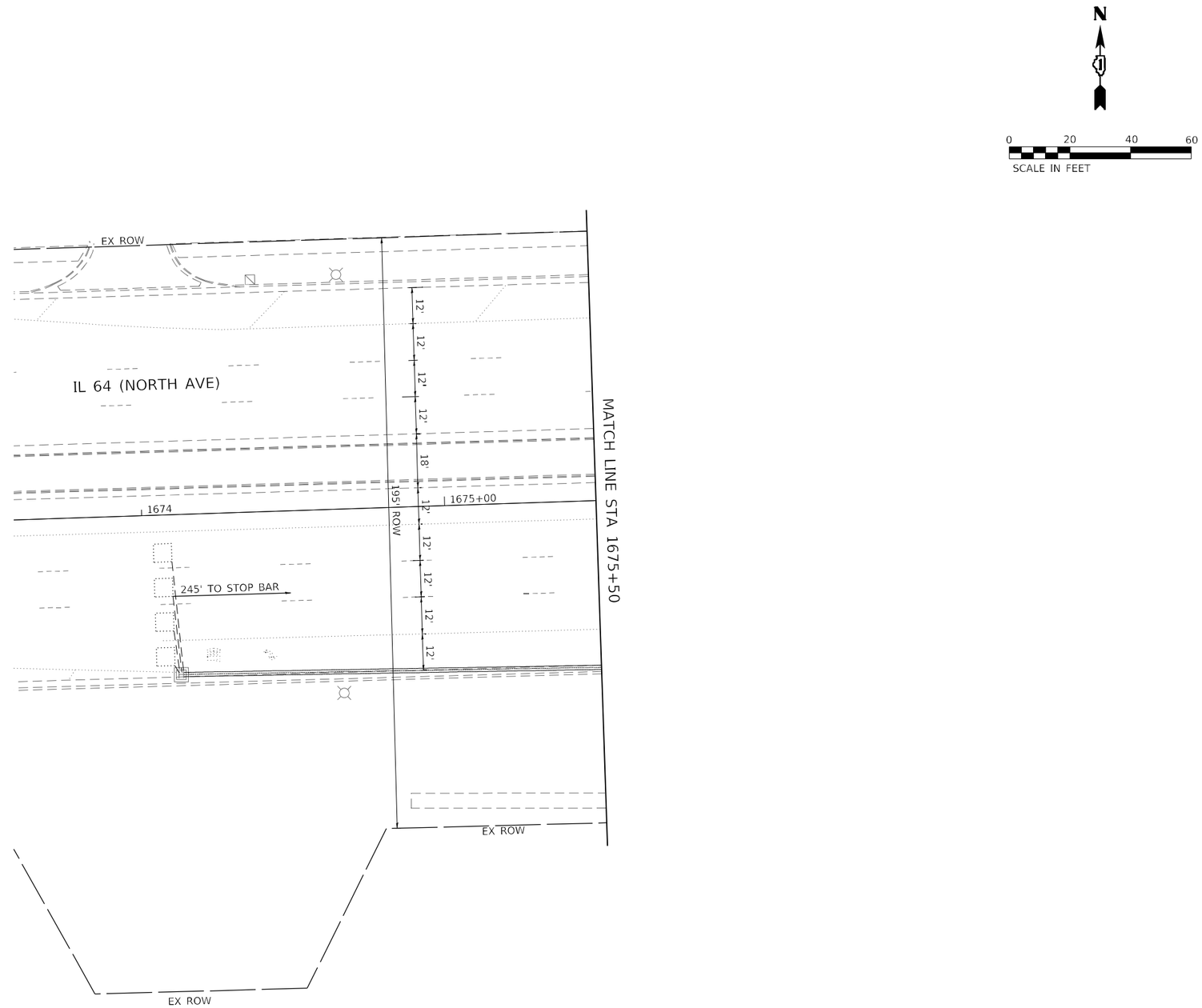

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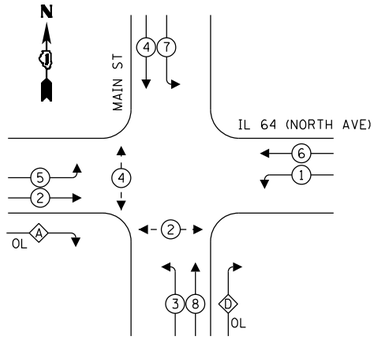
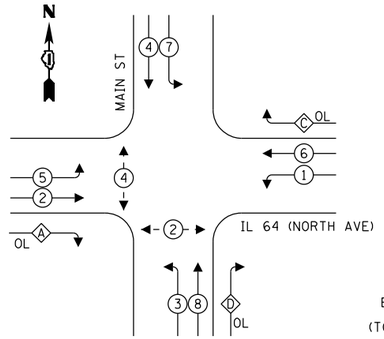
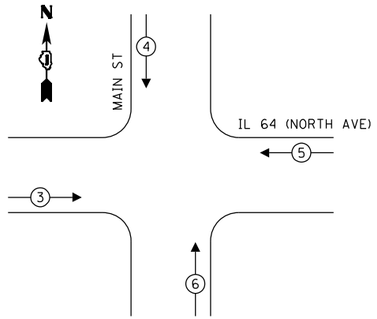


PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7
D	=	8	+	1

LEGEND:

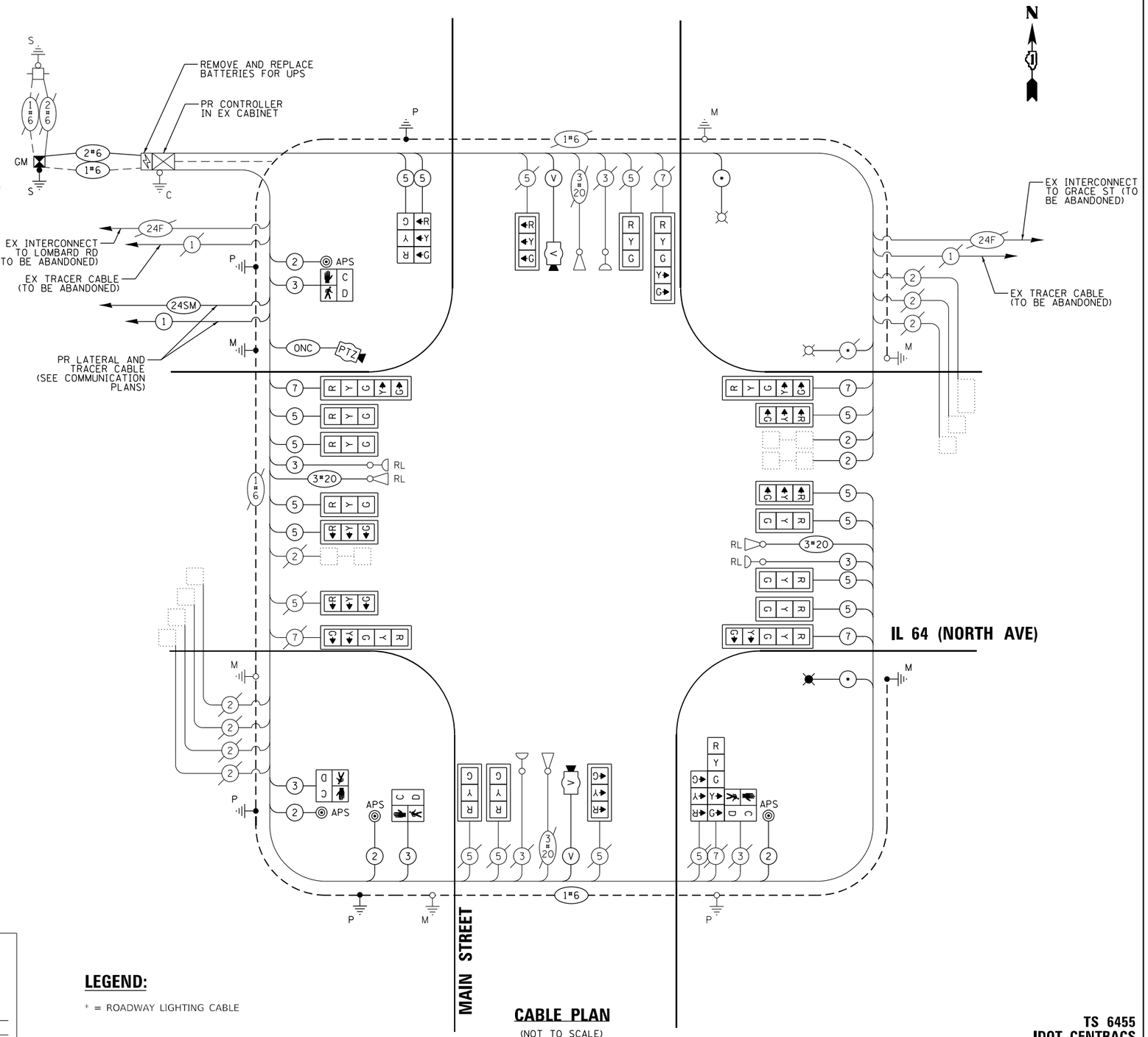
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	-	14	-
5-SECTION	6	13	78
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH LAYER II OR III	1	35	35
CELLULAR MODEM	-	15	-
PTZ	1	75	75
TOTAL UPS SIZING			639
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1244

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 50670-93024



LEGEND:

* = ROADWAY LIGHTING CABLE

CABLE PLAN

(NOT TO SCALE)

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IDOT CENTRACS
FORMER ECON 39

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PLOT DATE =	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

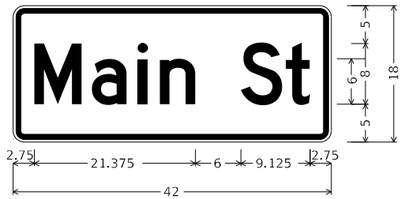
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND MAIN ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	231
		CONTRACT NO. 62N33		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	5.25	1	ZZ	2

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	70.5
	SIGN PANEL - TYPE 2	SQ FT	25
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	65
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	143
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	944
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1170
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2531
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	531
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	594
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	55
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	263
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 66 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 68 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	4
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50
	DRILL EXISTING HANDHOLE	EACH	7
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	20
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5176
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	600
	CENTRACS LICENSE EXPANSION	EACH	1
	OUTDOOR RATED NETWORK CABLE	FOOT	56
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
	LED SIGNAL FACE VISOR HEATER	EACH	24
	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

* - 100% COST TO THE VILLAGE OF LOMBARD

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DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND MAIN ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	232
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

REMOVAL NOTES

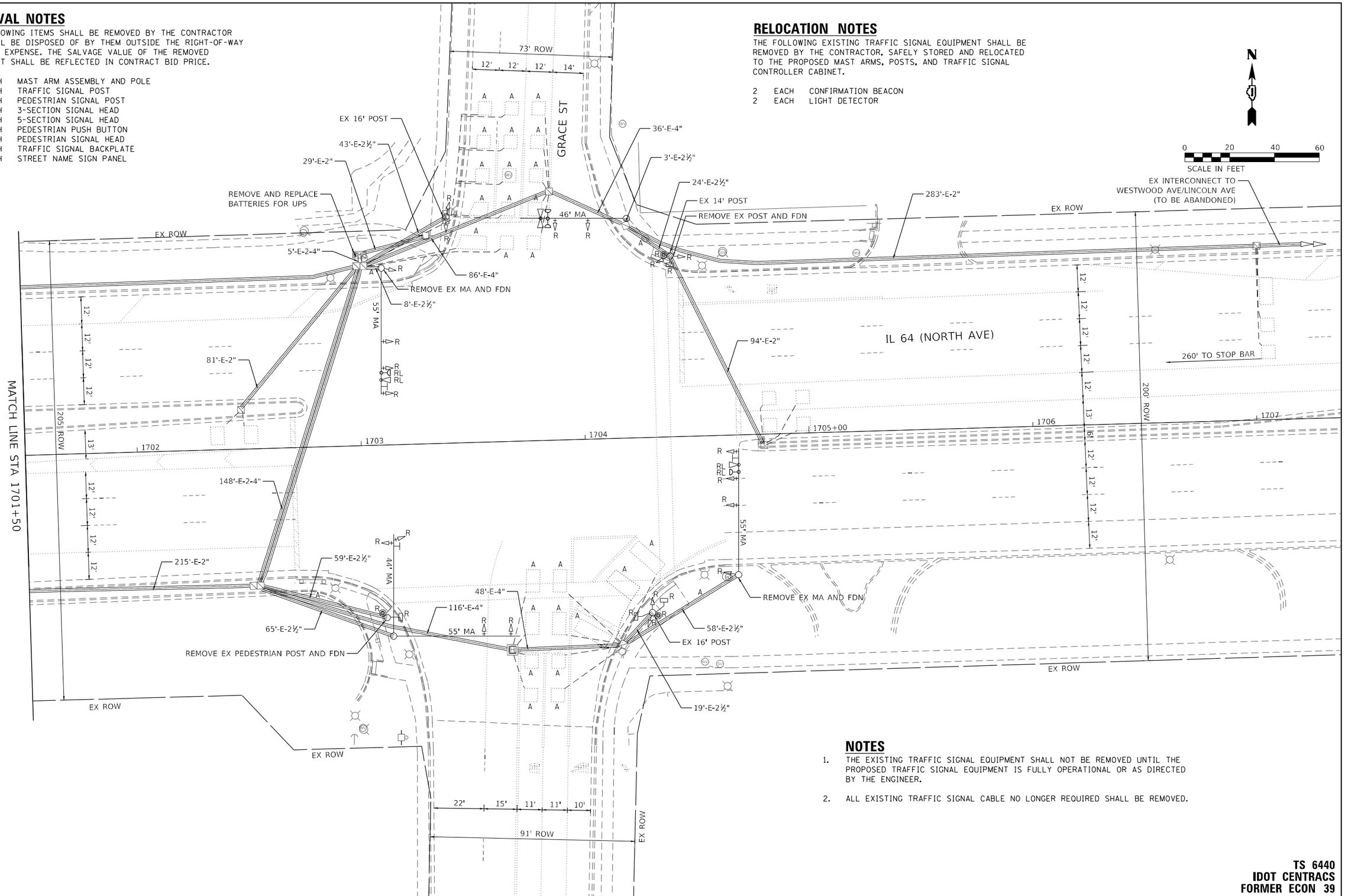
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

2	EACH	MAST ARM ASSEMBLY AND POLE
1	EACH	TRAFFIC SIGNAL POST
1	EACH	PEDESTRIAN SIGNAL POST
14	EACH	3-SECTION SIGNAL HEAD
6	EACH	5-SECTION SIGNAL HEAD
3	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	PEDESTRIAN SIGNAL HEAD
12	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	STREET NAME SIGN PANEL

RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR



NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

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PLOT DATE =	DATE -	REVISED -	

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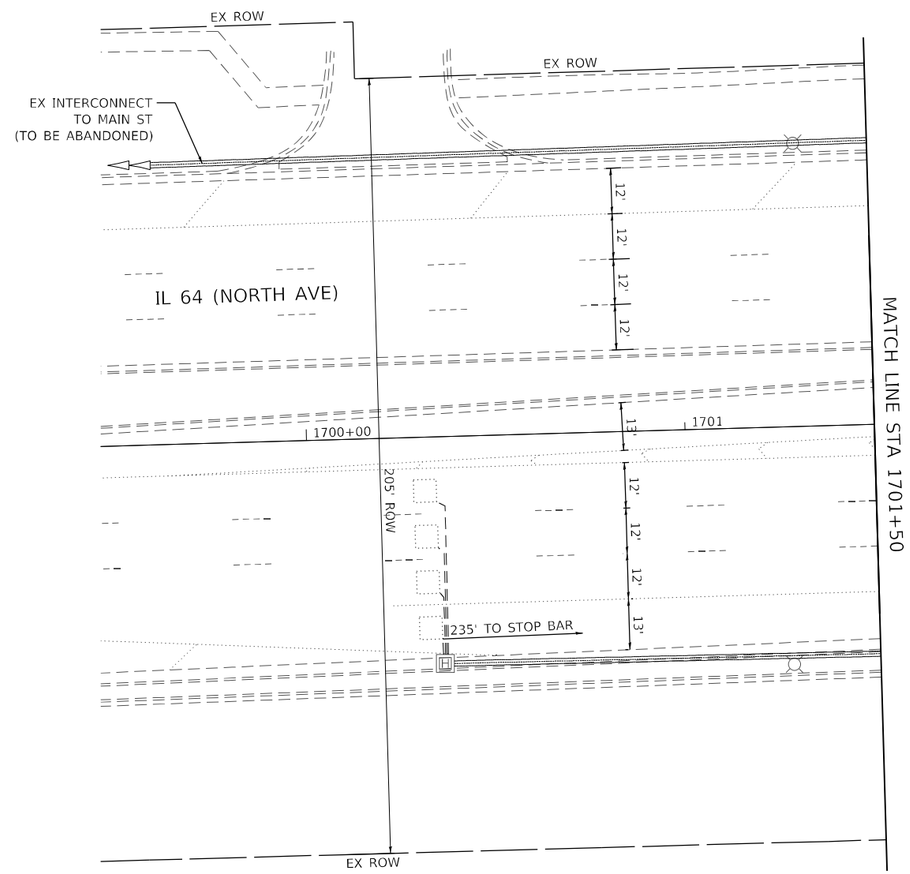
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND GRACE ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	233
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



N

0 20 40 60
SCALE IN FEET

TS 6440
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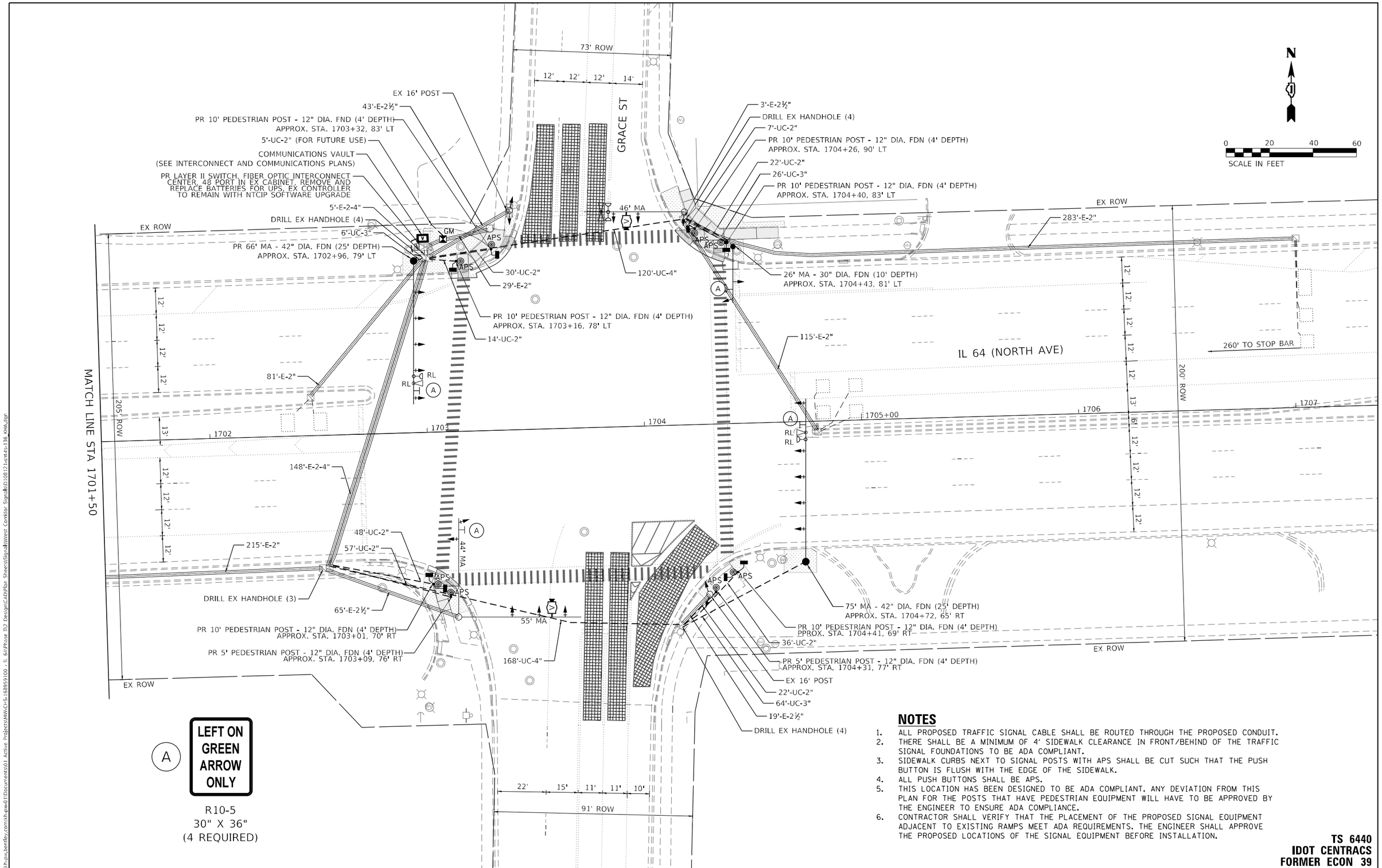
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND GRACE ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	234
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



A

LEFT ON GREEN ARROW ONLY

R10-5
30" X 36"
(4 REQUIRED)

NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
3. SIDEWALK CURBS NEXT TO SIGNAL POSTS WITH APS SHALL BE CUT SUCH THAT THE PUSH BUTTON IS FLUSH WITH THE EDGE OF THE SIDEWALK.
4. ALL PUSH BUTTONS SHALL BE APS.
5. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
6. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

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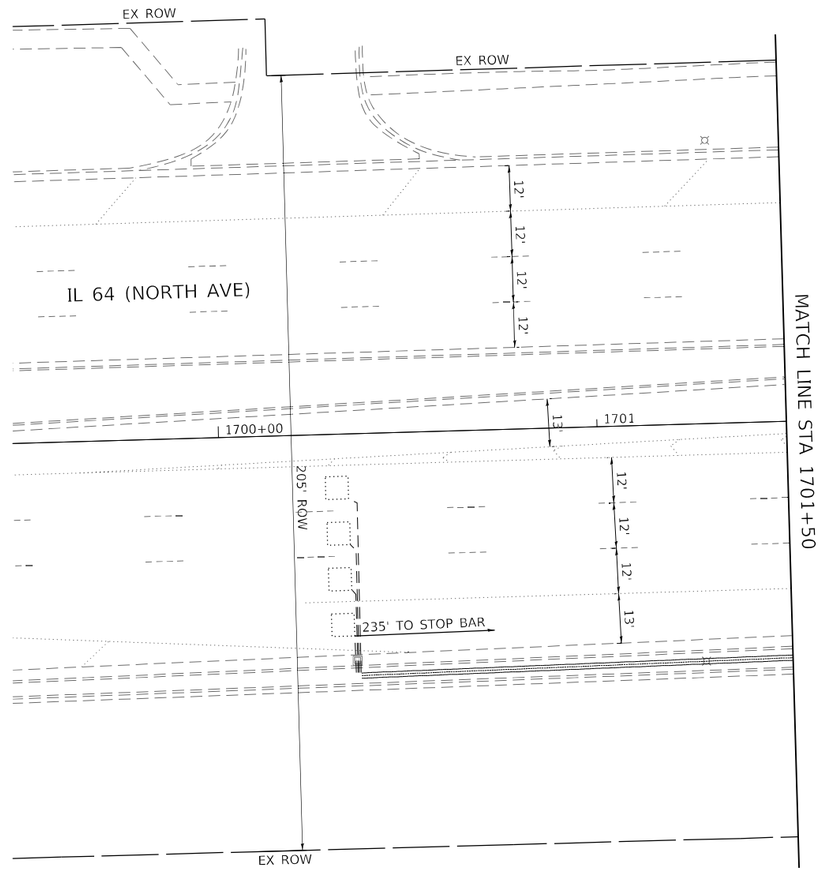
PLOT DATE =	DATE -	REVISED -	

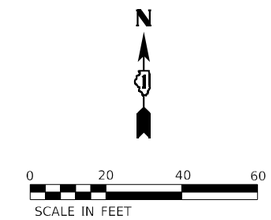
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND GRACE ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	235
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		





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PLOT DATE =	DATE -	REVISED -

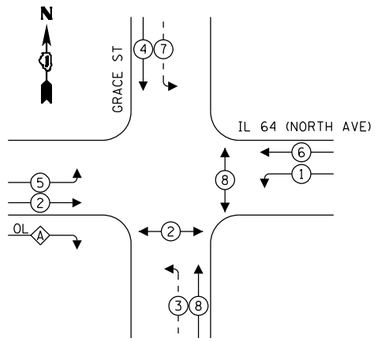
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND GRACE ST

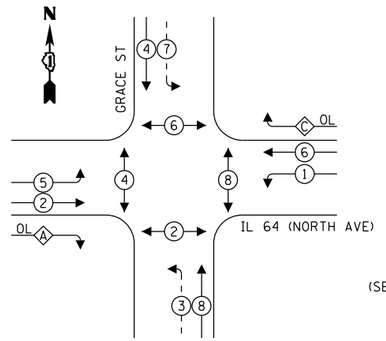
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	236
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

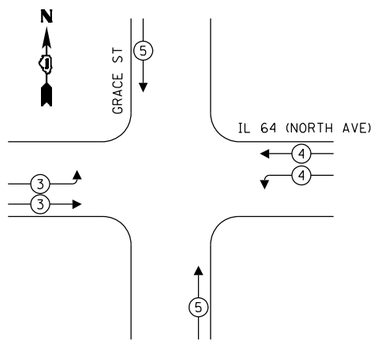
EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE



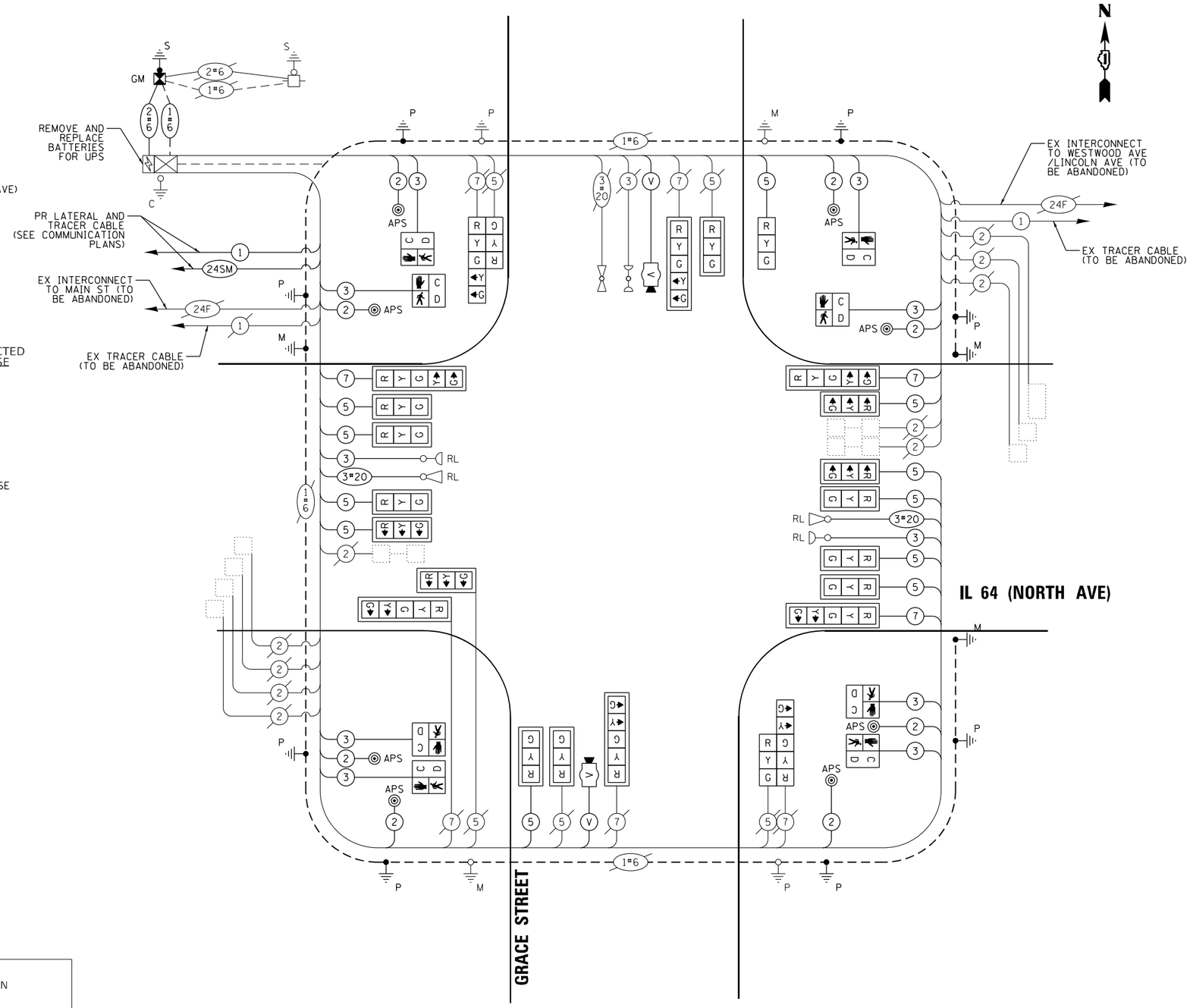
EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7

LEGEND:

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



CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	16	11	176
	4-SECTION	-	14	-
	5-SECTION	8	13	104
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		8	15	120
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	RADAR OR VIDEO	2	20	40
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	II OR III	1	35	35
CELLULAR MODEM		-	15	-
		TOTAL UPS SIZING		650
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
		TOTAL SERVICE WIRE SIZING		1255

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 50670-93024

TS 6440
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND GRACE ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	237
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

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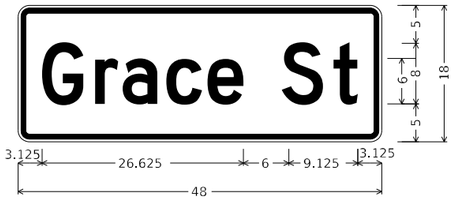
SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	42
	SIGN PANEL - TYPE 2	SQ FT	25
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	241
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	96
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	288
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1752
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2379
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3062
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	747
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	67
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	692
	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 75 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50
	DRILL EXISTING HANDHOLE	EACH	15
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	13
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	19
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7940
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	590
	CENTRACS LICENSE EXPANSION	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	6
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
	LED SIGNAL FACE VISOR HEATER	EACH	24
	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	32
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

* 100% COST TO THE VILLAGE OF LOMBARD

TS 6440
IDOT CENTRACS
FORMER ECON 39

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PLOT DATE =	DATE - 3/21/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND GRACE ST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	238
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

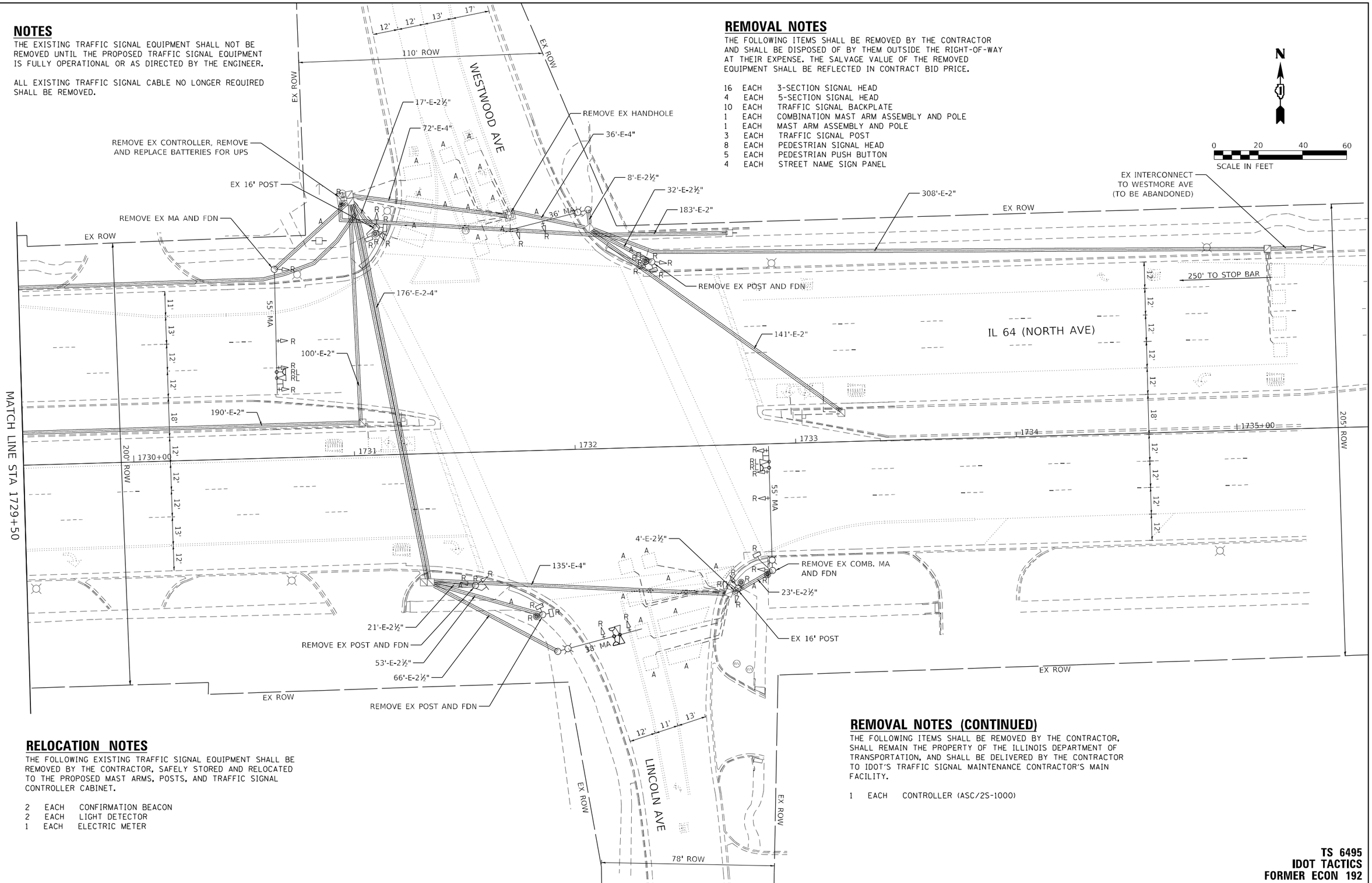
NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

16	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
10	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	COMBINATION MAST ARM ASSEMBLY AND POLE
1	EACH	MAST ARM ASSEMBLY AND POLE
3	EACH	TRAFFIC SIGNAL POST
8	EACH	PEDESTRIAN SIGNAL HEAD
5	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	STREET NAME SIGN PANEL



RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	ELECTRIC METER

REMOVAL NOTES (CONTINUED)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1 EACH CONTROLLER (ASC/2S-1000)

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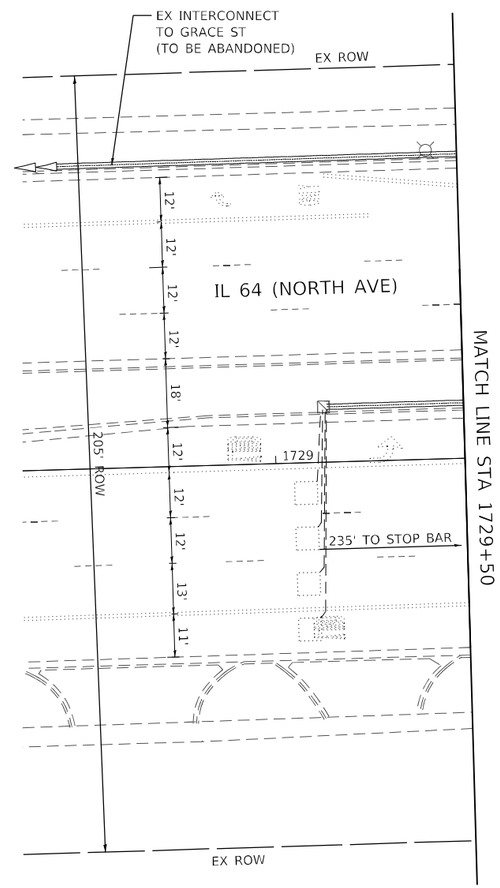
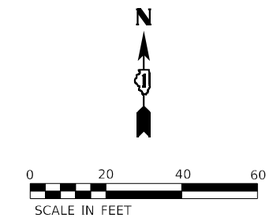
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND WESTWOOD AVE/LINCOLN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	239
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND WESTWOOD AVE/LINCOLN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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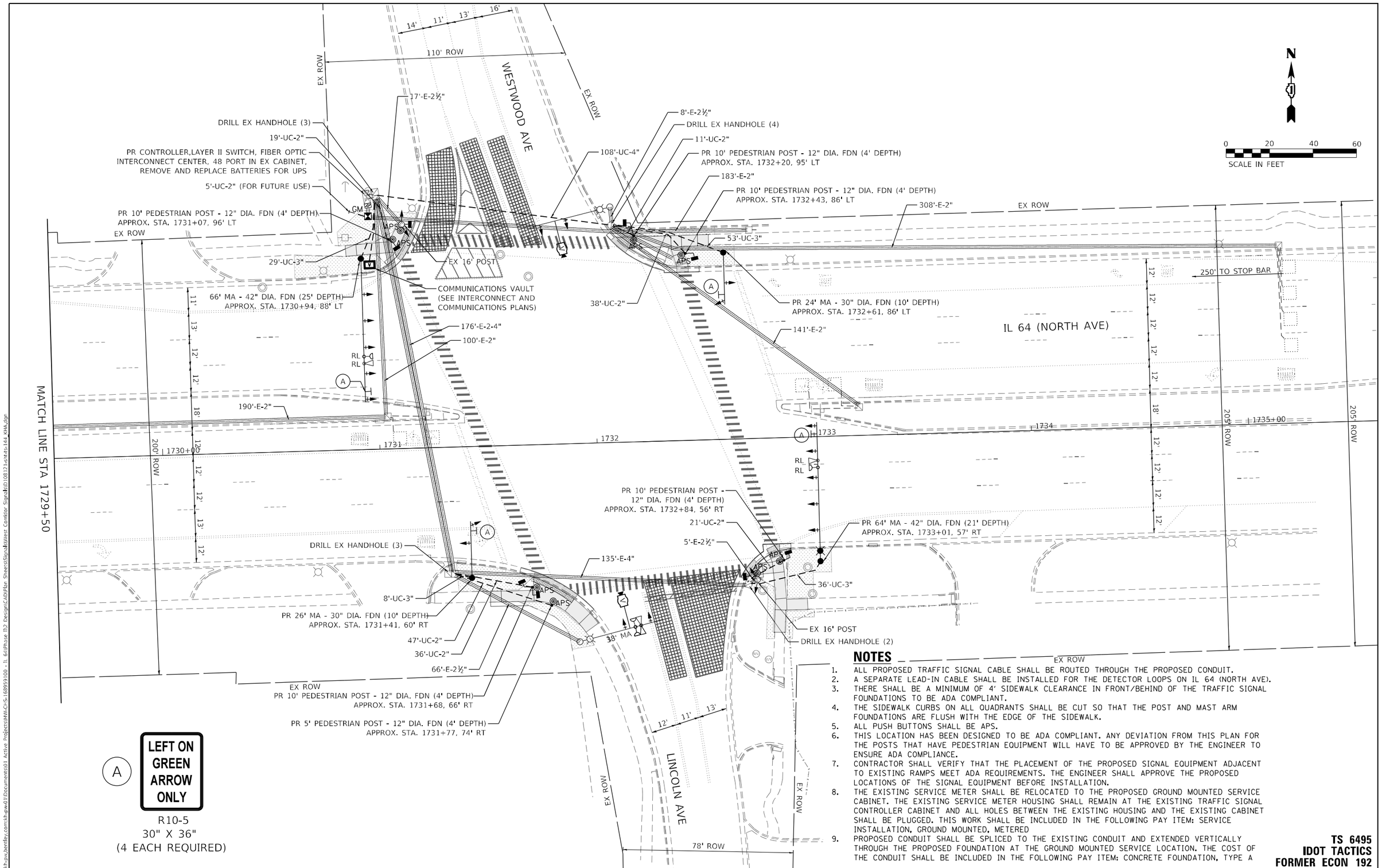
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



A

LEFT ON GREEN ARROW ONLY

R10-5
30" X 36"
(4 EACH REQUIRED)

NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS ON ALL QUADRANTS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.
8. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE FOLLOWING PAY ITEM: SERVICE INSTALLATION, GROUND MOUNTED, METERED
9. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE FOLLOWING PAY ITEM: CONCRETE FOUNDATION, TYPE A

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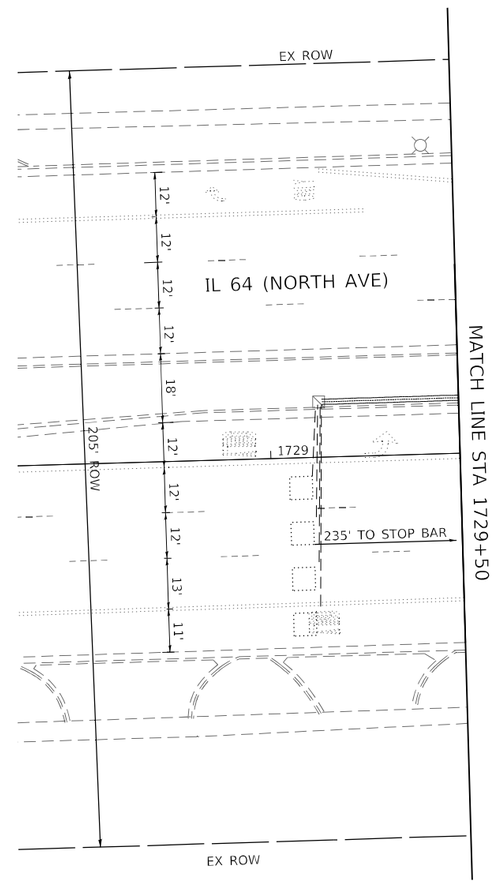
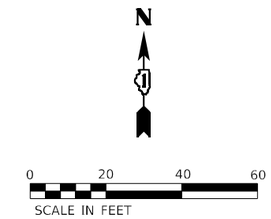
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND WESTWOOD AVE/LINCOLN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	241
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		





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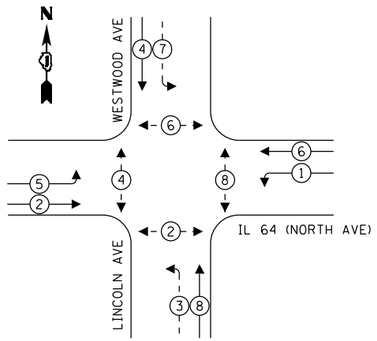
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND WESTWOOD AVE/LINCOLN AVE

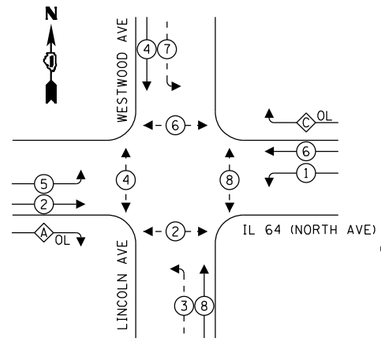
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	242
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

EXISTING CONTROLLER SEQUENCE

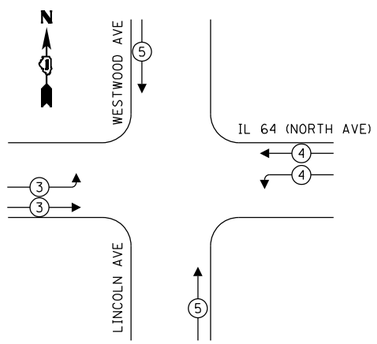


PROPOSED CONTROLLER SEQUENCE



OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

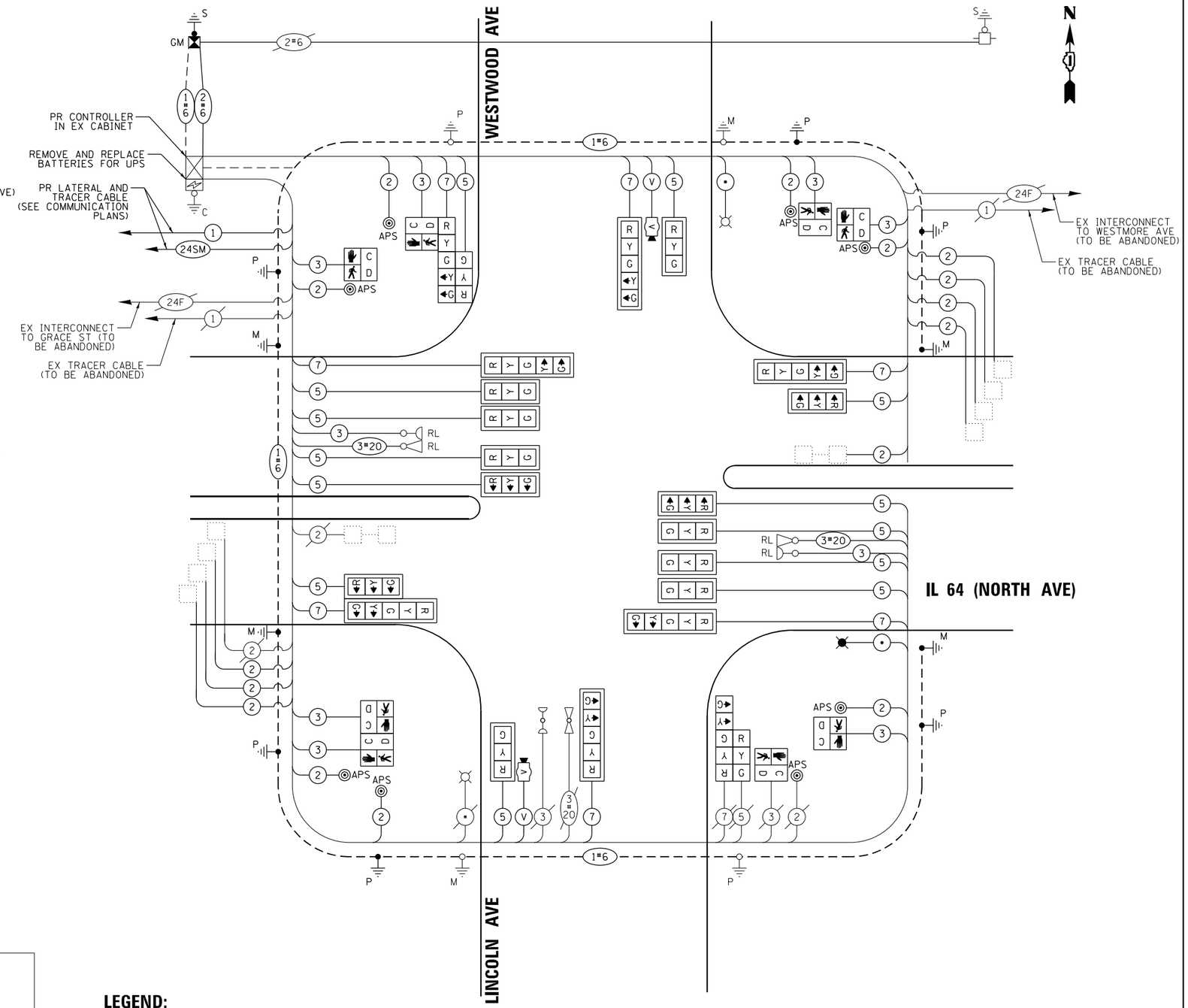
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	14	11	154
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH LAYER II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			628
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1233

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 64980-54039



LEGEND:

* = ROADWAY LIGHTING CABLE

CABLE PLAN

(NOT TO SCALE)

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DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND WESTWOOD AVE/LINCOLN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	243
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

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SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	20	2	ZZ	1

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	20	2	ZZ	1

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	30
	SIGN PANEL - TYPE 2	SQ FT	105
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	177
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	126
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	108
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1424
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2049
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3622
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1741
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2569
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	62
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	473
	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	46
	DRILL EXISTING HANDHOLE	EACH	12
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	18
	INDUCTIVE LOOP DETECTOR	EACH	2
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8836
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	627
	CENTRACS LICENSE EXPANSION	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	5
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	24
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

* - 100% COST TO THE VILLAGE OF VILLA PARK

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND WESTWOOD AVE/LINCOLN AVE

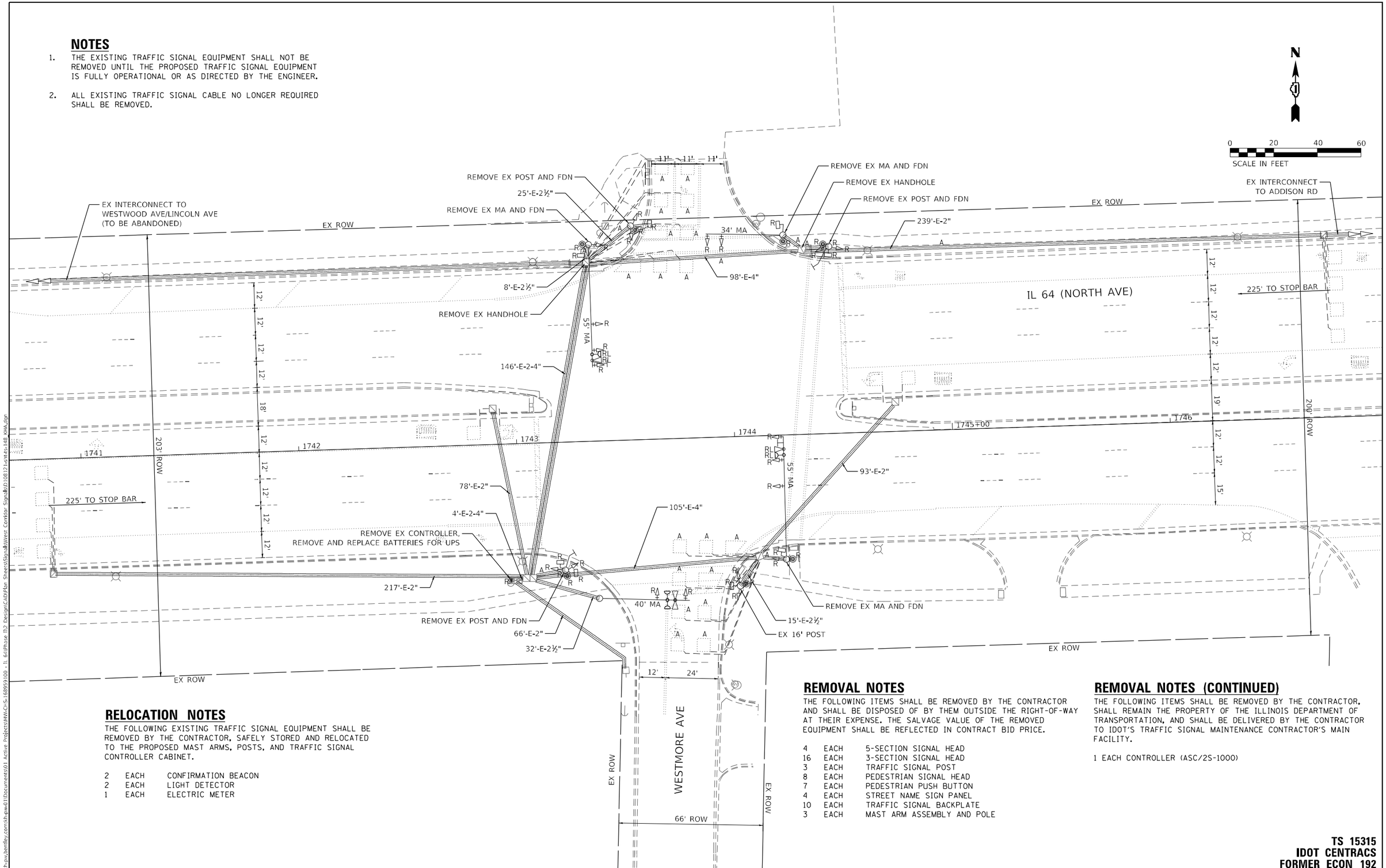
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	244
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.

2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	ELECTRIC METER

REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

4	EACH	5-SECTION SIGNAL HEAD
16	EACH	3-SECTION SIGNAL HEAD
3	EACH	TRAFFIC SIGNAL POST
8	EACH	PEDESTRIAN SIGNAL HEAD
7	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	STREET NAME SIGN PANEL
10	EACH	TRAFFIC SIGNAL BACKPLATE
3	EACH	MAST ARM ASSEMBLY AND POLE

REMOVAL NOTES (CONTINUED)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1 EACH CONTROLLER (ASC/2S-1000)

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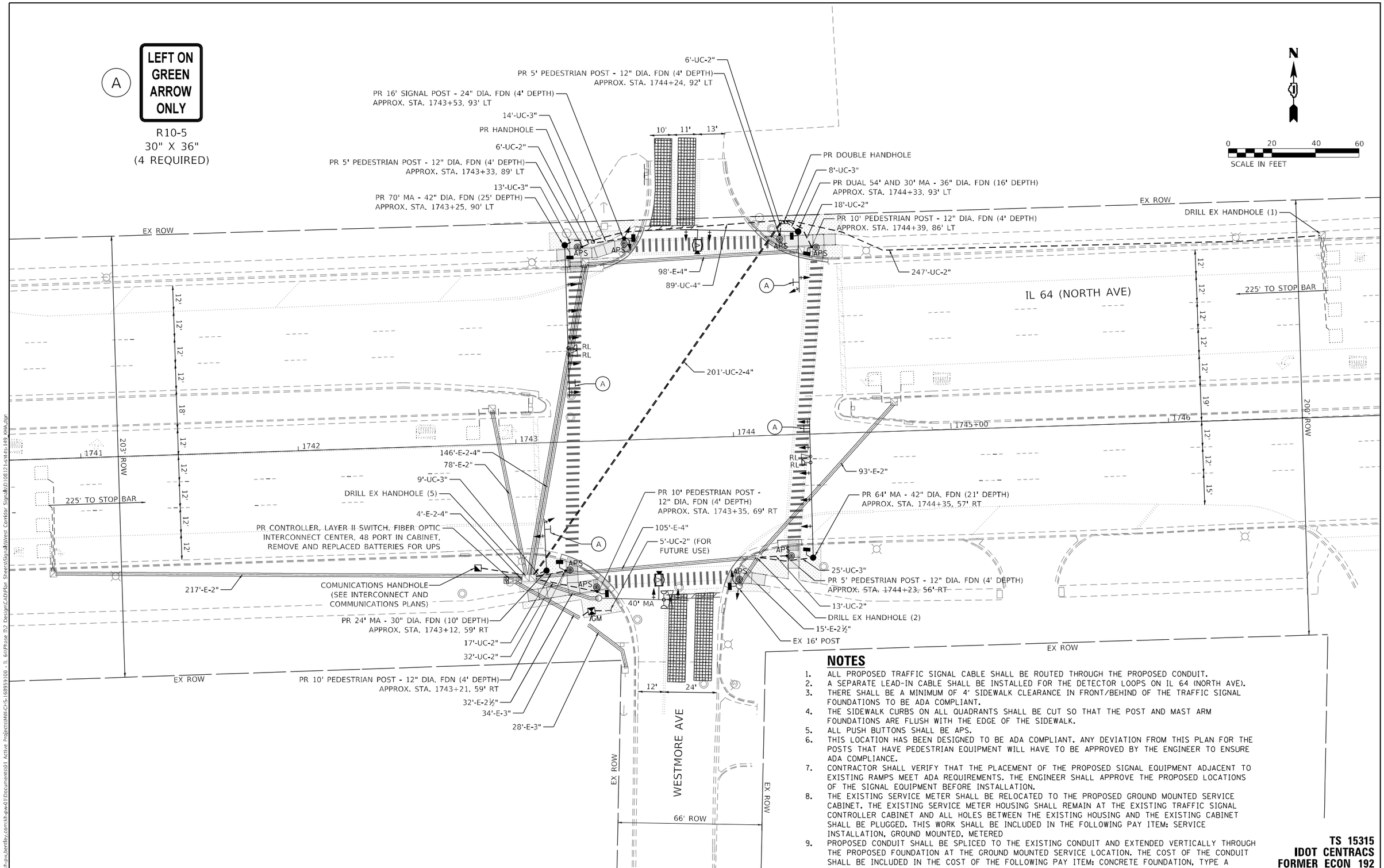
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND WESTMORE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	245
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS ON ALL QUADRANTS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.
8. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE FOLLOWING PAY ITEM: SERVICE INSTALLATION, GROUND MOUNTED, METERED
9. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF THE FOLLOWING PAY ITEM: CONCRETE FOUNDATION, TYPE A

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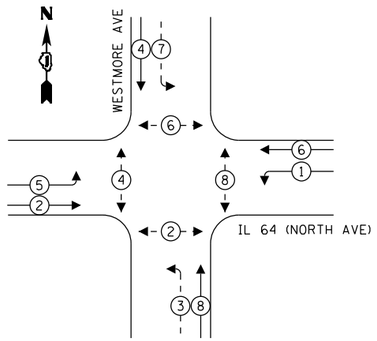
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND WESTMORE AVE

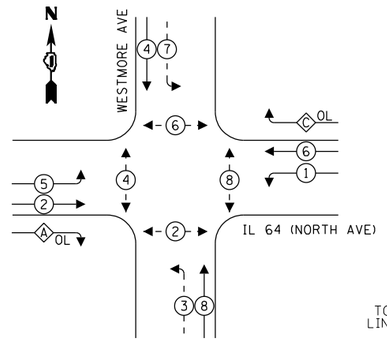
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	246
		CONTRACT NO. 62N33		
		ILLINOIS FED. AID PROJECT		

EXISTING CONTROLLER SEQUENCE

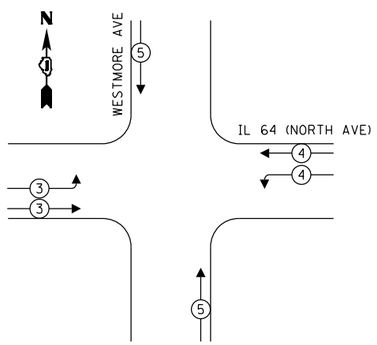


PROPOSED CONTROLLER SEQUENCE



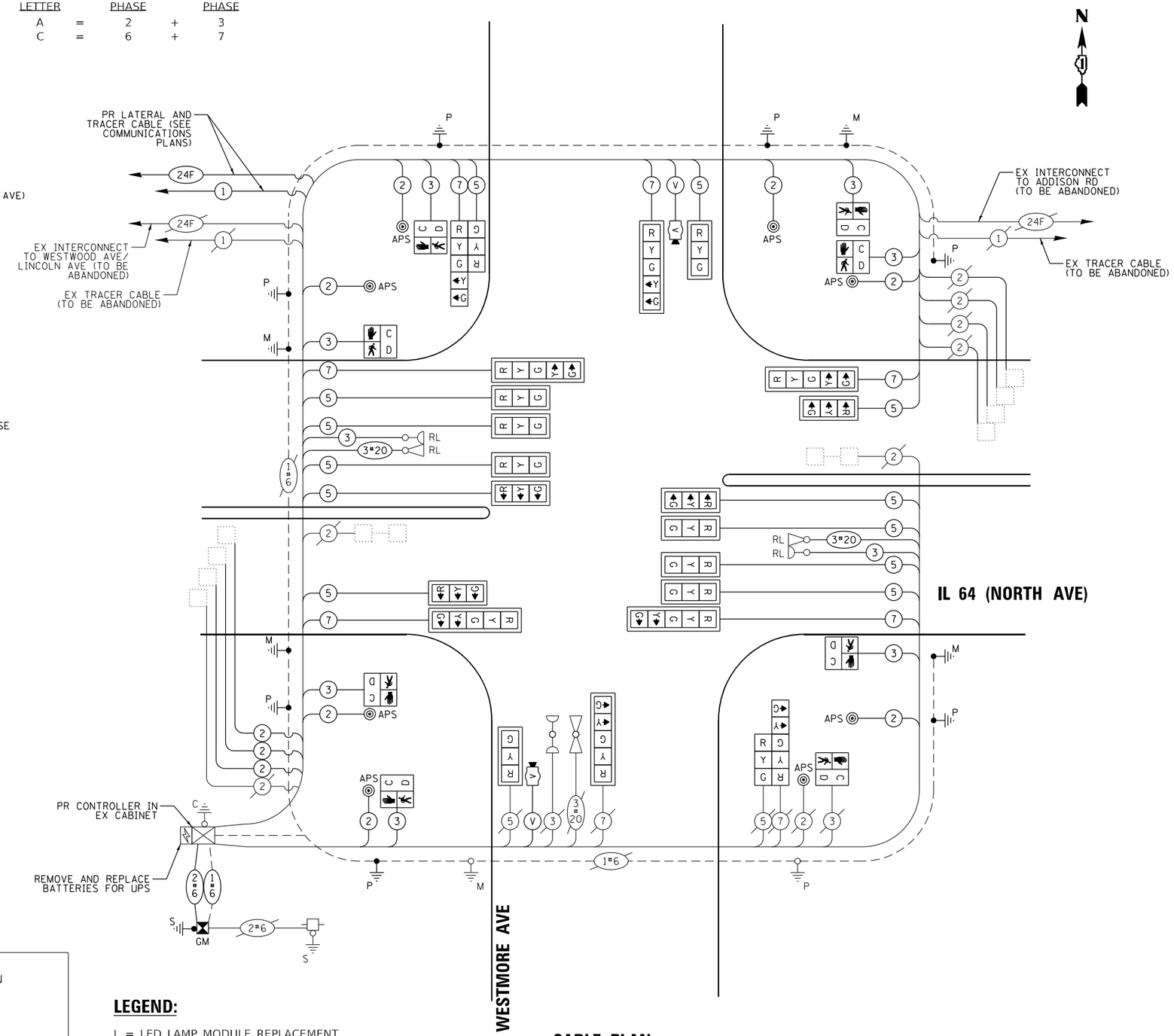
OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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



LEGEND:

L = LED LAMP MODULE REPLACEMENT

CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	14	11	154
	4-SECTION	-	14	-
	5-SECTION	8	13	104
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		8	15	120
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	VIDEO	2	20	40
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	LAYER II OR III	1	35	35
CELLULAR MODEM		-	15	-
		TOTAL UPS SIZING		628
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
		TOTAL SERVICE WIRE SIZING		1233

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 41551-14037

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND WESTMORE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	247
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

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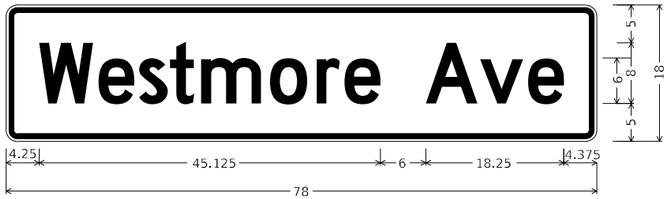
SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	2	ZZ	2

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	30
	SIGN PANEL - TYPE 2	SQ FT	44.5
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	344
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	69
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	491
	HANDHOLE	EACH	1
	DOUBLE HANDHOLE	EACH	1
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1537
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2486
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3869
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1793
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	663
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	84
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	988
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 64 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 70 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 54 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	8
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	16
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	46
	DRILL EXISTING HANDHOLE	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	18
	INDUCTIVE LOOP DETECTOR	EACH	3
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	2
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	692
	CENTRACS LICENSE EXPANSION	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3
	LED SIGNAL FACE VISOR HEATER	EACH	22
	LED SIGNAL FACE VISOR HEATER	EACH	22
	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	24
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

* - 100% COST TO THE VILLAGE OF VILLA PARK

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DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND WESTMORE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	248
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

RAILROAD NOTES

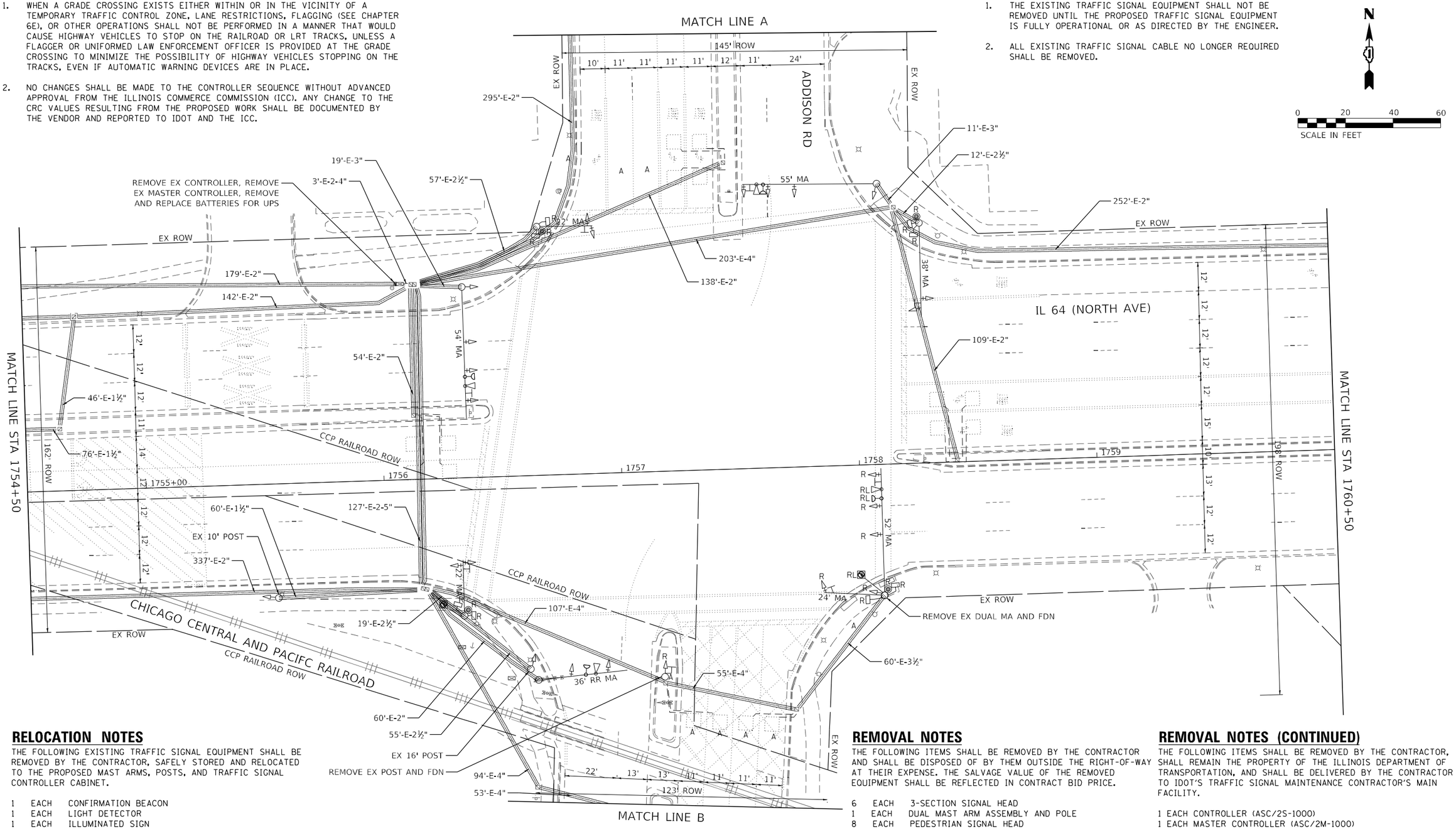
1. WHEN A GRADE CROSSING EXISTS EITHER WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING (SEE CHAPTER 6E), OR OTHER OPERATIONS SHALL NOT BE PERFORMED IN A MANNER THAT WOULD CAUSE HIGHWAY VEHICLES TO STOP ON THE RAILROAD OR LRT TRACKS, UNLESS A FLAGGER OR UNIFORMED LAW ENFORCEMENT OFFICER IS PROVIDED AT THE GRADE CROSSING TO MINIMIZE THE POSSIBILITY OF HIGHWAY VEHICLES STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

2. NO CHANGES SHALL BE MADE TO THE CONTROLLER SEQUENCE WITHOUT ADVANCED APPROVAL FROM THE ILLINOIS COMMERCE COMMISSION (ICC). ANY CHANGE TO THE CRC VALUES RESULTING FROM THE PROPOSED WORK SHALL BE DOCUMENTED BY THE VENDOR AND REPORTED TO IDOT AND THE ICC.

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.

2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

1	EACH	CONFIRMATION BEACON
1	EACH	LIGHT DETECTOR
1	EACH	ILLUMINATED SIGN
1	EACH	ELECTRIC METER

REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

6	EACH	3-SECTION SIGNAL HEAD
1	EACH	DUAL MAST ARM ASSEMBLY AND POLE
8	EACH	PEDESTRIAN SIGNAL HEAD
4	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	STREET NAME SIGN PANEL
1	EACH	TRAFFIC SIGNAL POST
4	EACH	TRAFFIC SIGNAL BACKPLATE

REMOVAL NOTES (CONTINUED)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1 EACH CONTROLLER (ASC/2S-1000)
1 EACH MASTER CONTROLLER (ASC/2M-1000)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND ADDISON RD

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

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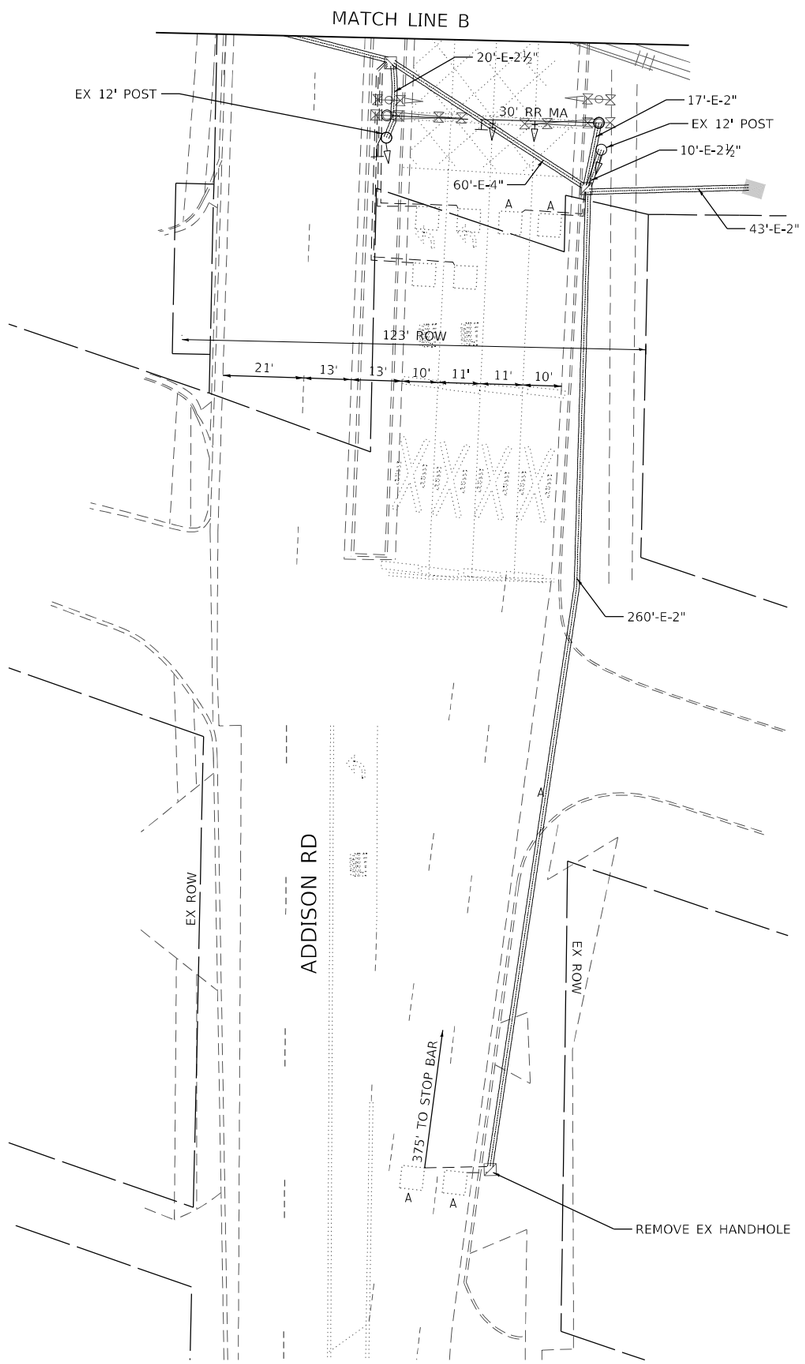

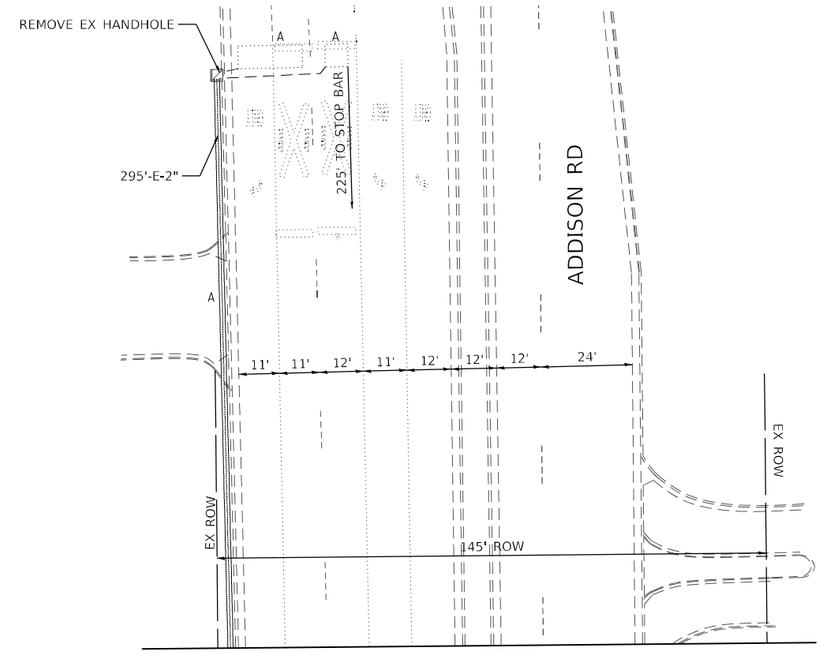

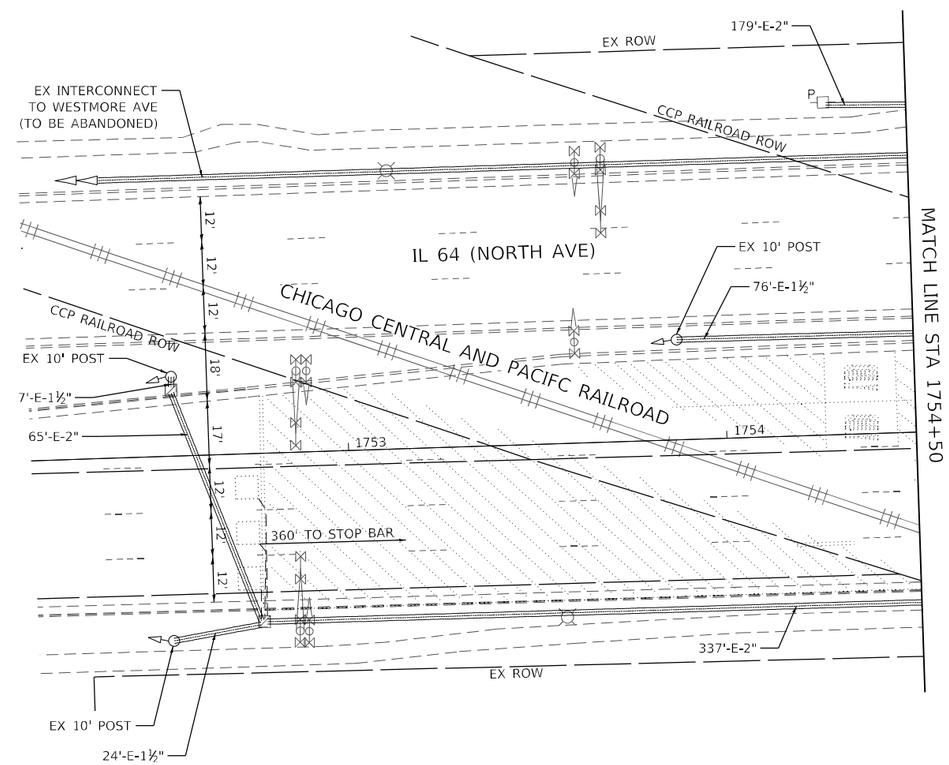

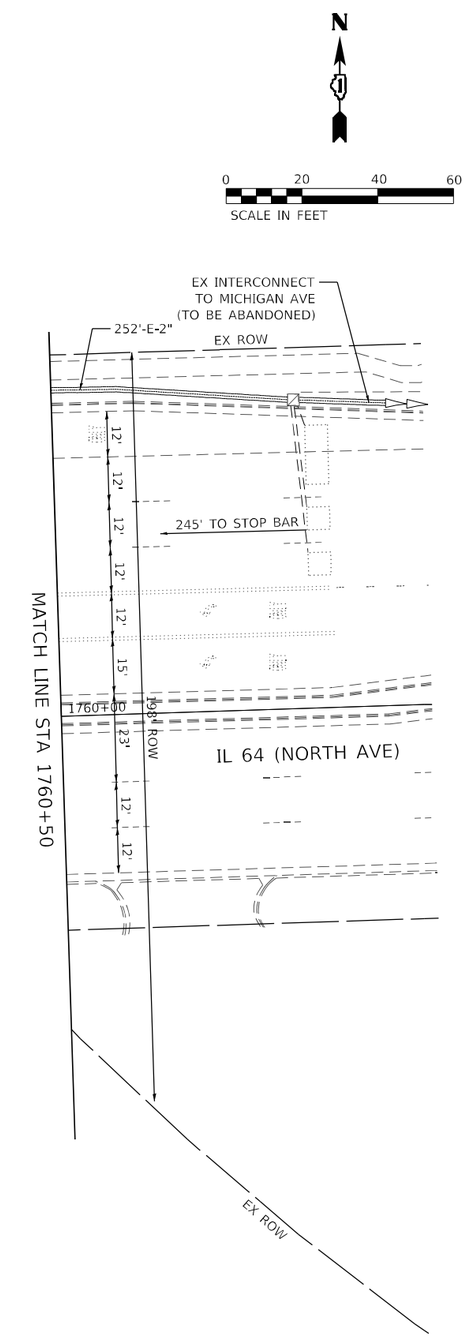

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FORMER ECON 192

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND ADDISON RD

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

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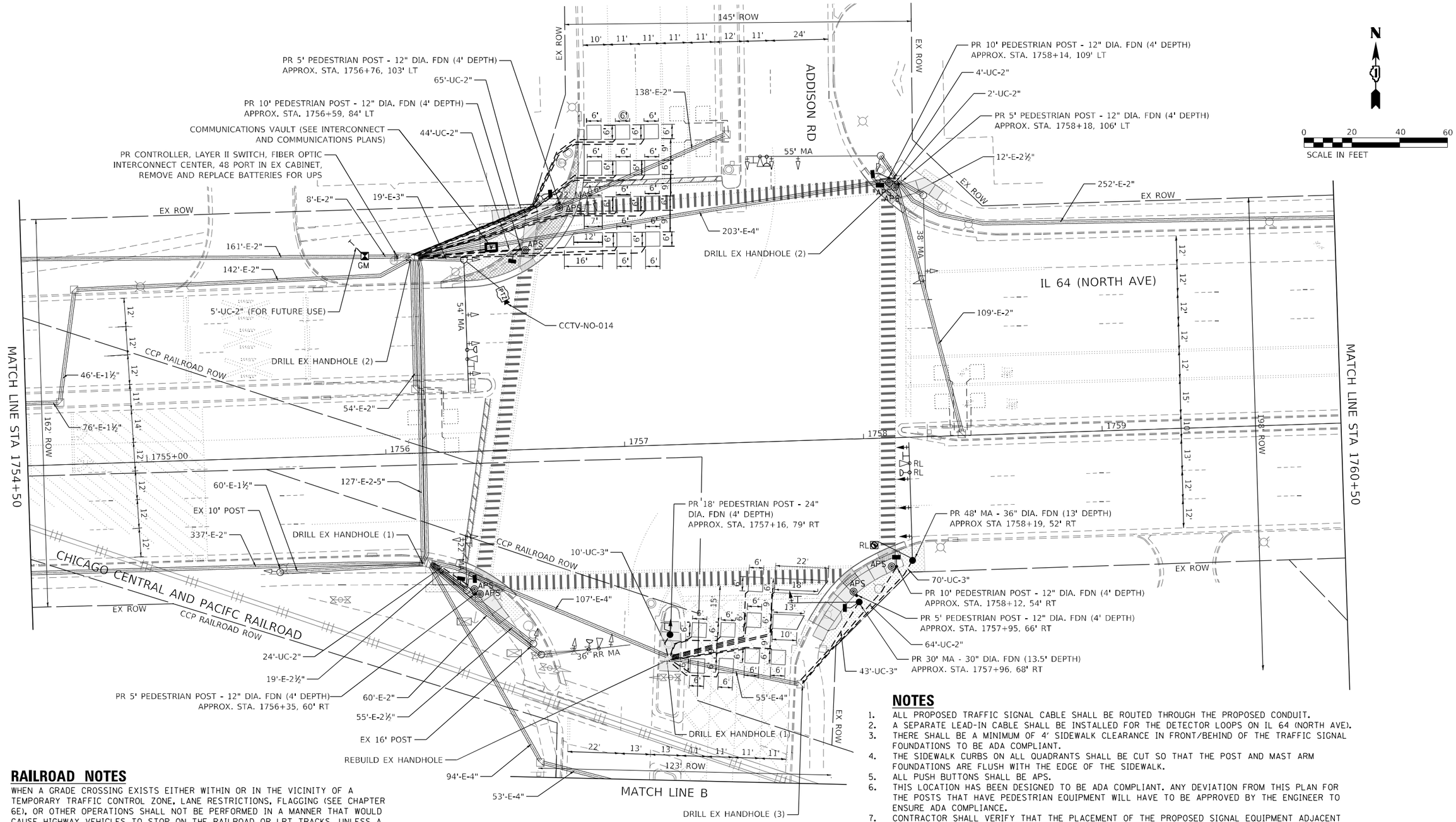
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



RAILROAD NOTES

1. WHEN A GRADE CROSSING EXISTS EITHER WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING (SEE CHAPTER 6E), OR OTHER OPERATIONS SHALL NOT BE PERFORMED IN A MANNER THAT WOULD CAUSE HIGHWAY VEHICLES TO STOP ON THE RAILROAD OR LRT TRACKS, UNLESS A FLAGGER OR UNIFORMED LAW ENFORCEMENT OFFICER IS PROVIDED AT THE GRADE CROSSING TO MINIMIZE THE POSSIBILITY OF HIGHWAY VEHICLES STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

2. NO CHANGES SHALL BE MADE TO THE CONTROLLER SEQUENCE WITHOUT ADVANCED APPROVAL FROM THE ILLINOIS COMMERCE COMMISSION (ICC). ANY CHANGE TO THE CRC VALUES RESULTING FROM THE PROPOSED WORK SHALL BE DOCUMENTED BY THE VENDOR AND REPORTED TO IDOT AND THE ICC.

NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS ON ALL QUADRANTS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.
8. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE FOLLOWING PAY ITEM: SERVICE INSTALLATION, GROUND MOUNTED, METERED
9. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE FOLLOWING PAY ITEM: CONCRETE FOUNDATION, TYPE A

TS 6405
IDOT CENTRACS
FORMER ECON 192

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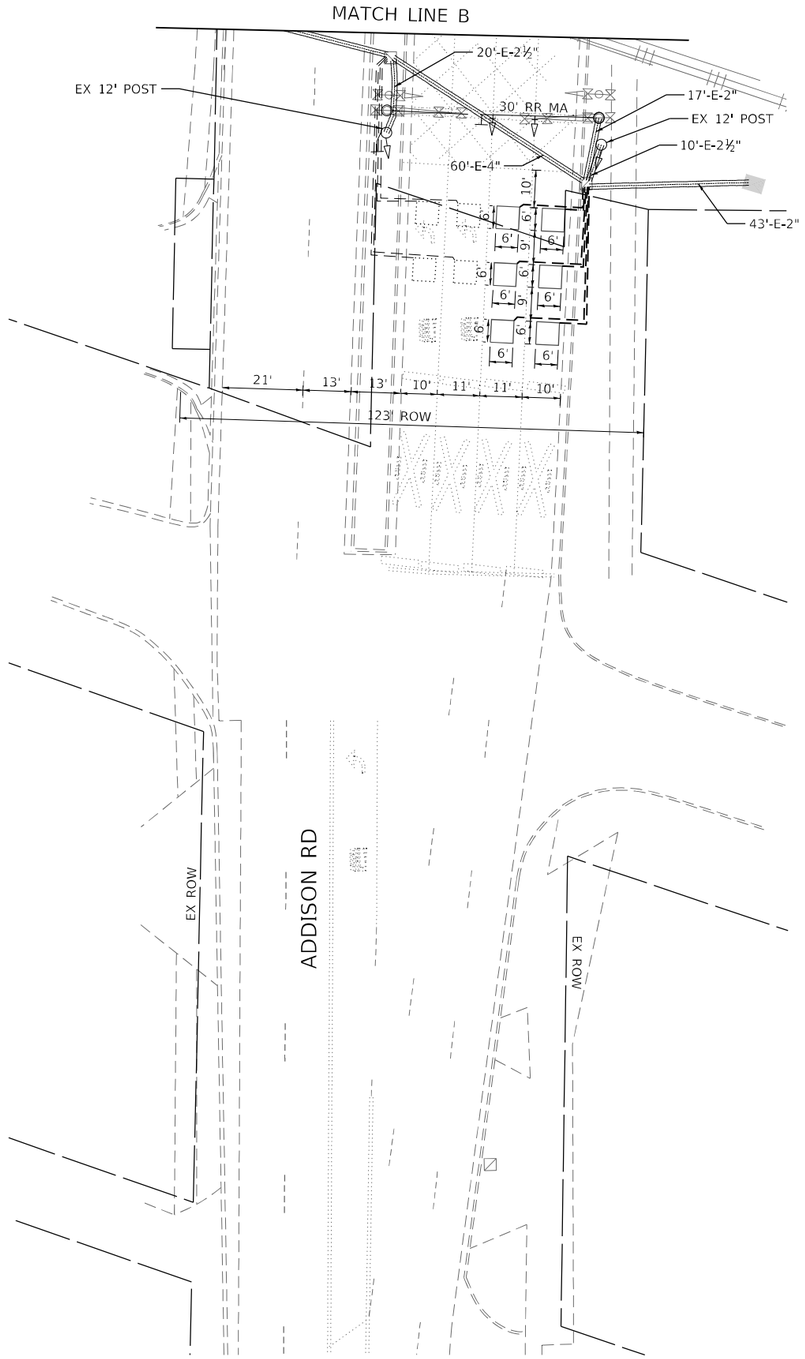
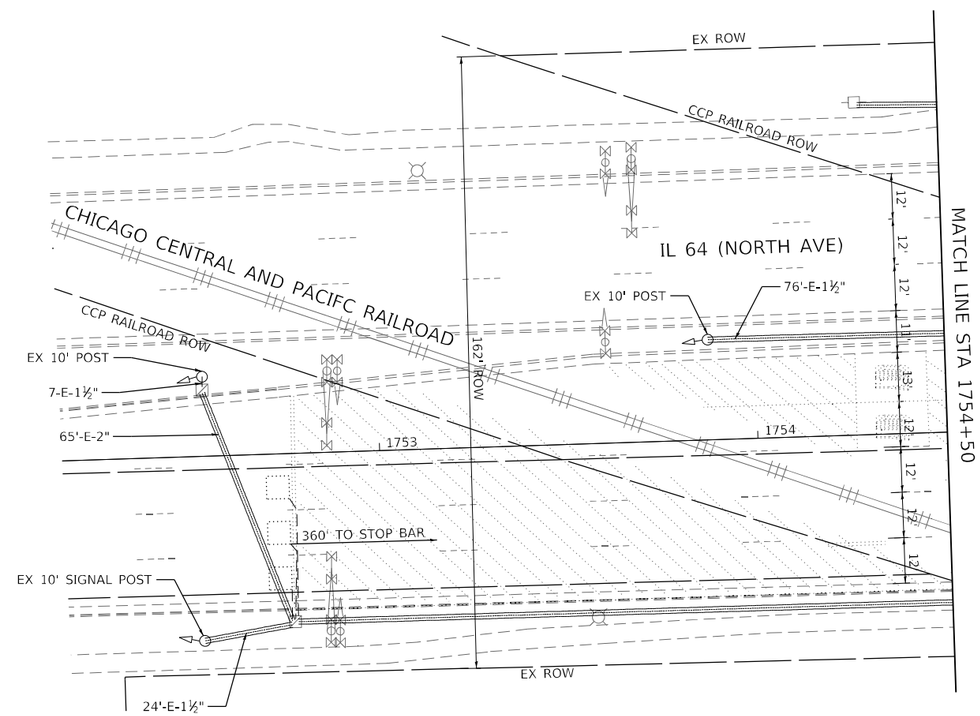
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

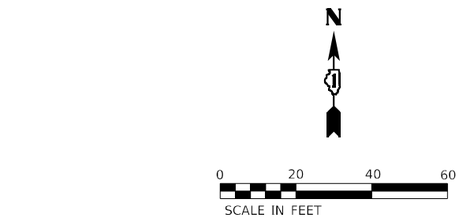
TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND ADDISON RD

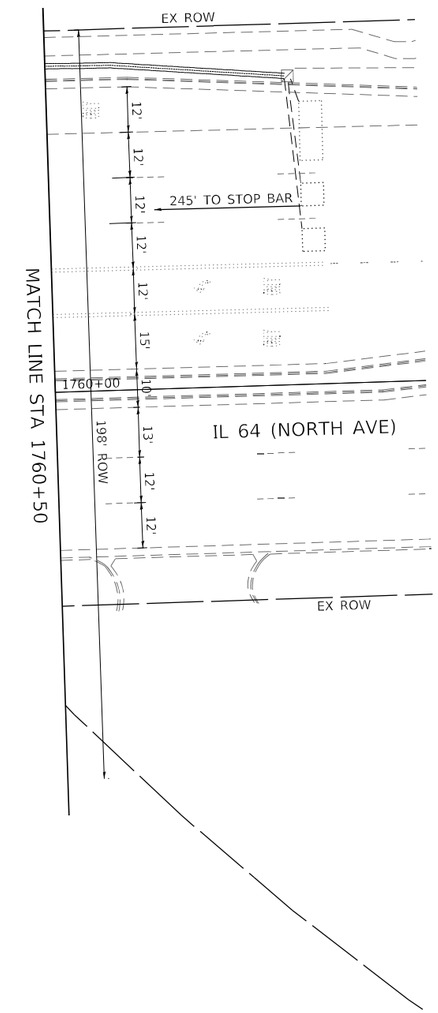
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	251
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		









TS 6405
IDOT CENTRACS
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PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND ADDISON RD

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

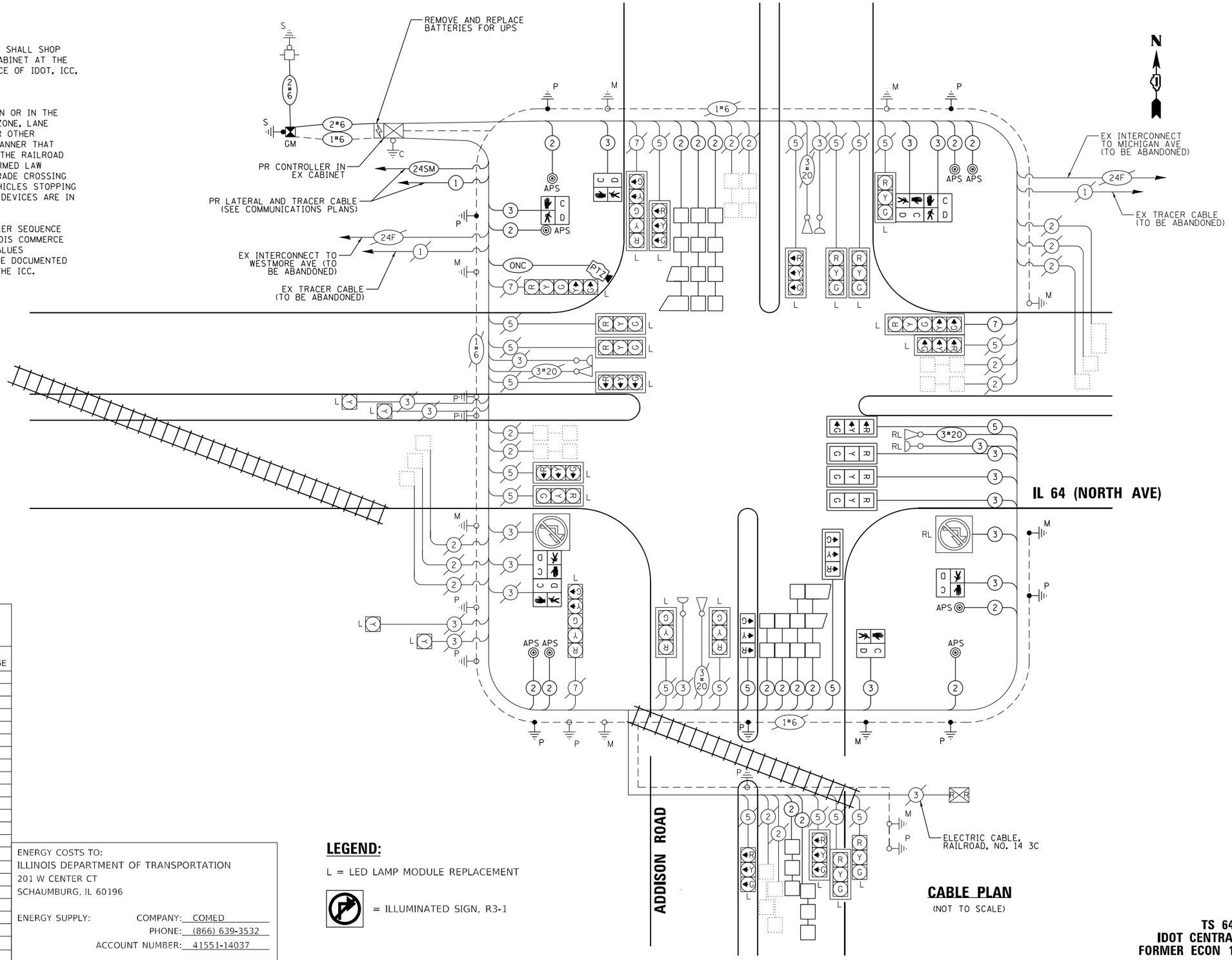
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	252
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

RAILROAD NOTES:

1. PRIOR TO THE INSTALLATION, THE CONTRACTOR SHALL SHOP TEST THE TRAFFIC SIGNAL CONTROLLER AND CABINET AT THE EQUIPMENT VENDOR'S FACILITY IN THE PRESENCE OF IDOT, ICC, AND MANUFACTURER REPRESENTATIVES.

2. WHEN A GRADE CROSSING EXISTS EITHER WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING (SEE CHAPTER 6E), OR OTHER OPERATIONS SHALL NOT BE PERFORMED IN A MANNER THAT WOULD CAUSE HIGHWAY VEHICLES TO STOP ON THE RAILROAD OR LRT TRACKS, UNLESS A FLAGGER OR UNIFORMED LAW ENFORCEMENT OFFICER IS PROVIDED AT THE GRADE CROSSING TO MINIMIZE THE POSSIBILITY OF HIGHWAY VEHICLES STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

3. NO CHANGES SHALL BE MADE TO THE CONTROLLER SEQUENCE WITHOUT ADVANCED APPROVAL FROM THE ILLINOIS COMMERCE COMMISSION (ICC). ANY CHANGE TO THE CRC VALUES RESULTING FROM THE PROPOSED WORK SHALL BE DOCUMENTED BY THE VENDOR AND REPORTED TO IDOT AND THE ICC.



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	22	11	242
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
FLASHER	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION VIDEO	-	20	-
BLANK-OUT SIGN	2	25	50
NETWORK SWITCH LAYER II OR III	1	35	35
CELLULAR MODEM	-	15	-
PTZ	1	75	75
TOTAL UPS SIZING			809
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1414

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 41551-14037

LEGEND:

L = LED LAMP MODULE REPLACEMENT

= ILLUMINATED SIGN, R3-1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND ADDISON RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	253
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

SEQUENCE OF OPERATION

MOVEMENT		1	2A	2B	3A	3B	4A	4B	5	6	7A	7B	8	9	10A	10B	11	12	13A	13B	14A	14B	15A	15B
PHASE		1+5							1+6				2+5				2+6							
INTERVAL		1	2A	2B	3A	3B	4A	4B	5	6	7A	7B	8	9	10A	10B	11	12	13A	13B	14A	14B	15A	15B
CHANGE TO			1+6		2+5		2+6		0	0	2+6		0	0	2+6				1+6		2+5		1+5 3+7 3+8 4+7 4+8	
IL RTE. 64 NEAR RT. FAR RT & 2 MID M.A. SIGNALS	(EB)	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	G	G	Y	R
IL RTE. 64 END MAST ARM AND FAR LEFT SIGNALS	(EB)	G	Y	R	G	G	Y	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R
IL RTE. 64 NEAR RIGHT AND FAR RIGHT SIGNALS	(WB)	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	G	G	G	G	Y	R	Y	R
IL RTE. 64 MID MAST ARM SIGNALS	(WB)	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	G	G	G	G	Y	R	Y	R
IL RTE. 64 END MAST ARM AND FAR LEFT SIGNALS	(WB)	G	G	G	Y	R	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD NEAR RIGHT AND FAR RIGHT SIGNALS	(SB)	C R	Y R	R	C R	C R	Y R	R	R	R	R	R	C R	C R	Y R	R	R	R	R	R	R	R	R	R
ADDISON ROAD R.R. CANTILEVER SIGNALS	(SB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD MEDIAN POST AND FAR LEFT SIGNALS	(SB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD, SOUTH OF TRACKS NEAR RIGHT AND RIGHT R.R. CANTILEVER SIGNALS	(NB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD, SOUTH OF TRACKS NEAR LEFT AND END R.R. CANTILEVER SIGNALS	(NB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD, NORTH OF TRACKS FAR RIGHT AND 2 MAST ARM SIGNALS	(NB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD, NORTH OF TRACKS END MAST ARM AND FAR LEFT SIGNALS	(NB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNAL CROSSING ADDISON ROAD ON NORTH SIDE OF IL RTE 64		H	H	H	H	H	H	H	P •	FH ••	H	H	H	H	H	H	P •	FH ••	H	H	H	H	H	H
PEDESTRIAN SIGNAL CROSSING ADDISON ROAD ON SOUTH SIDE OF IL RTE 64		H	H	H	H	H	H	H	H	H	H	H	P •	FH ••	H	H	P •	FH ••	H	H	H	H	H	H
PEDESTRIAN SIGNAL CROSSING IL RTE 64 ON EAST SIDE OF ADDISON ROAD		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNAL CROSSING IL RTE 64 ON WEST SIDE OF ADDISON ROAD		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
IL RTE. 64 YELLOW FLASHERS WEST OF TRACKS	(EB)	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	D	D	D	D	D	D	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y
IL RTE. 64 YELLOW FLASHERS EAST OF TRACKS	(EB)	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	D	D	D	D	D	D	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y

MOVEMENT		16	17A	17B	18A	18B	18C	18D	19A	19B	19C	19D	20	21	22A	22B	22C	22D	23A	23B	23C	23D	24	25	26A	26B	27A	27B	28	29	30A	30B	30C	30D	FLASH
PHASE		3+7											3+8										4+7						4+8						
INTERVAL		16	17A	17B	18A	18B	18C	18D	19A	19B	19C	19D	20	21	22A	22B	22C	22D	23A	23B	23C	23D	24	25	26A	26B	27A	27B	28	29	30A	30B	30C	30D	
CHANGE TO			3+8		4+7				4+8 1+5, 1+6 2+5, 2+6				0	0	4+8				1+5, 1+6 2+5, 2+6				0	0	4+8		1+5, 1+6 2+5, 2+6				1+5, 1+6 2+5, 2+6				
IL RTE. 64 NEAR RT. FAR RT & 2 MID M.A. SIGNALS	(EB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL RTE. 64 END MAST ARM AND FAR LEFT SIGNALS	(EB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL RTE. 64 NEAR RIGHT AND FAR RIGHT SIGNALS	(WB)	G R	Y R	R	G R	G R	G R	G R	Y R	R	R	R	R	R	R	R	R	R	R	R	R	R	G R	G R	Y R	R	Y R	R	R	R	R	R	R	R	R
IL RTE. 64 MID MAST ARM SIGNALS	(WB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL RTE. 64 END MAST ARM AND FAR LEFT SIGNALS	(WB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD NEAR RIGHT AND FAR RIGHT SIGNALS	(SB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	C	C	C	C	Y	R	C	C	Y	R	R	R	R
ADDISON ROAD R.R. CANTILEVER SIGNALS	(SB)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	C	C	C	C	Y	R	C	C	Y	R	R	R	R
ADDISON ROAD MEDIAN POST AND FAR LEFT SIGNALS	(SB)	C	Y	R	C	C	C	C	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	C	C	Y	R	Y	R	R	R	R	R	R	R	R
ADDISON ROAD, SOUTH OF TRACKS NEAR RIGHT AND RIGHT R.R. CANTILEVER SIGNALS	(NB)	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	R
ADDISON ROAD, SOUTH OF TRACKS NEAR LEFT AND END R.R. CANTILEVER SIGNALS	(NB)	C	C	C	Y	R	R	R	Y	R	R	R	G	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD, NORTH OF TRACKS FAR RIGHT AND 2 MAST ARM SIGNALS	(NB)	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	C	C	C	Y	R	R	R	R	R	R	R	C	G	G	G	Y	R	R
ADDISON ROAD, NORTH OF TRACKS END MAST ARM AND FAR LEFT SIGNALS	(NB)	C	C	C	C	C	Y	R	C	C	Y	R	G	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNAL CROSSING ADDISON ROAD ON NORTH SIDE OF IL RTE 64		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	D
PEDESTRIAN SIGNAL CROSSING ADDISON ROAD ON SOUTH SIDE OF IL RTE 64		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	D
PEDESTRIAN SIGNAL CROSSING IL RTE 64 ON EAST SIDE OF ADDISON ROAD		H	H	H	H	H	H	H	H	H	H	H	P •	FH ••	H	H	H	H	H	H	H	H	H	H	H	H	H	H	P •	FH ••	H	H	H	H	D
PEDESTRIAN SIGNAL CROSSING IL RTE 64 ON WEST SIDE OF ADDISON ROAD		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	P •	FH ••	H	H	H	H	P •	FH ••	H	H	H	H	D
IL RTE. 64 YELLOW FLASHERS WEST OF TRACKS	(EB)	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	D
IL RTE. 64 YELLOW FLASHERS EAST OF TRACKS	(EB)	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	D

NOTE: PHASE 2+6 SHALL BE PLACED ON RECALL.

• TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

•• FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

0 THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

P - ILLUMINATED PERSON - WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

D = DARK

FL Y = FLASHING YELLOW BEACON

MODEL: Default
FILE NAME: pw:\\kh-pw.bentley.com:kh-pw-01\Documents\01 Active Projects\MW-OHS-168959100 - IL 64\Phase III\2 Design\CAD\Plan Sheets\Signals\West Corridor Signals\D108121-sht-ss-159A M4A.dgn

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PLOT DATE =	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEQUENCE OF OPERATION
IL 64 (NORTH AVE) AND ADDISON RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	254

CONTRACT NO. 62N33

ILLINOIS | FED. AID PROJECT

RAILROAD PREEMPTION SEQUENCE OF OPERATION

																	PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 5		PREEMPTOR NUMBER 6		PREEMPTOR NUMBER 3							
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		8		11		16		20		24		28															
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																	2		3		4									
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	2	3	4	5	6	7	8	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1K	2	1M	2	1P	2	1R	2	1T	2	1V	2	1X	2	3	4	5	6	7	8		
IL RTE. 64 (EB) NEAR RT. FAR RT & 2 MID M.A. SIGNALS	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	Y	R	R	△
IL RTE. 64 (EB) END MAST ARM AND FAR LEFT SIGNALS	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	Y	R	R	△
IL RTE. 64 (WB) NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	Y	R	R	R	Y	R	R Y	R	R	R	R Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R G	△
IL RTE. 64 (WB) MID MAST ARM SIGNALS	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	△
IL RTE. 64 (WB) END MAST ARM AND FAR LEFT SIGNALS	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	△
ADDISON ROAD (SB) NEAR RIGHT AND FAR RIGHT SIGNALS	R Y	R	R	R	R Y	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	△
ADDISON ROAD (SB) R.R. CANTILEVER SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	△
ADDISON ROAD (SB) MEDIAN POST AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	△
ADDISON ROAD, SOUTH OF TRACKS (NB) NEAR RIGHT AND RIGHT R.R. CANTILEVER SIGNALS	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	△
ADDISON ROAD, SOUTH OF TRACKS (NB) NEAR LEFT AND END R.R. CANTILEVER SIGNALS	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	△
ADDISON ROAD, NORTH OF TRACKS (NB) FAR RIGHT AND 2 MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	G	G	R	R	G	G	R	R	R	R	G	G	G	Y	R	R	R	R	R	△
ADDISON ROAD, NORTH OF TRACKS (NB) END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	△
PEDESTRIAN SIGNAL CROSSING ADDISON ROAD ON NORTH SIDE OF IL RTE. 64	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNAL CROSSING ADDISON ROAD ON SOUTH SIDE OF IL RTE. 64	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNAL CROSSING IL RTE. 64 ON EAST SIDE OF ADDISON ROAD	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNAL CROSSING IL RTE. 64 ON WEST SIDE OF ADDISON ROAD	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
IL RTE. 64 (EB) INTERNALLY ILLUMINATED NRT SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	△
IL RTE. 64 (EB) YELLOW FLASHERS WEST OF TRACKS	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	△
IL RTE. 64 (EB) YELLOW FLASHERS EAST OF TRACKS	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	△
																													HOLD	

NRT = "NO RIGHT TURN" OR

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

FL Y = FLASHING YELLOW BEACON

△RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 8 IS TERMINATED.

MODEL: Default
FILE NAME: pw:\\uh-pw.bentley.com:khs-pw-01\Documents\01 Active Projects\MV-CHS-168959100 - IL 64\Phase II\2 Design\CAD\Plan Sheets\Signals\West Corridor S-signals\20108121-sht45-1599 RHA.dgn

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USER NAME =	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE =	CHECKED -	REVISED -	
PLOT DATE =	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAILROAD PREEMPTION SEQUENCE OF OPERATION
IL 64 (NORTH AVE) AND ADDISON RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	255
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		1		1		5			5	8		8			11			11			11		
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	3	1F	4	1H	1J	2 OR 4	3	1M	2	1P	1Q	3 OR 4	1S	1T	2	1V	1W	3	1Y	1Z	4
IL RTE. 64 (EB) NEAR RT. FAR RT & 2 MID M.A. SIGNALS	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	Y	R	G	Y	R
IL RTE. 64 (EB) END MAST ARM AND FAR LEFT SIGNALS	G ←	G ←	Y ←	R ←	Y ←	R ←	R ←	R ←	R ←	R ←	G ←	G ←	G ←	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
IL RTE. 64 (WB) NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	G	Y	R	G	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R
IL RTE. 64 (WB) MID MAST ARM SIGNALS	R	R	R	R	R	R	G	Y	R	G	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R
IL RTE. 64 (WB) END MAST ARM AND FAR LEFT SIGNALS	Y ←	R ←	G ←	G ←	Y ←	R ←	G ←	Y ←	R ←	G ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
ADDISON ROAD (SB) NEAR RIGHT AND FAR RIGHT SIGNALS	Y^R →	R	Y^R →	R	Y^R →	R	R	R	R	R	G^R →	Y^R →	G^R →	Y^R →	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD (SB) R.R. CANTILEVER SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD (SB) MEDIAN POST AND FAR LEFT SIGNALS	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
ADDISON ROAD, SOUTH OF TRACKS (NB) NEAR RT AND RT R.R. CANTILEVER SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD, SOUTH OF TRACKS (NB) NEAR LT AND END R.R. CANTILEVER SIGNALS	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
ADDISON ROAD, NORTH OF TRACKS (NB) FAR RIGHT AND 2 MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ADDISON ROAD, NORTH OF TRACKS (NB) END MAST ARM AND FAR LEFT SIGNALS	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
PEDESTRIAN SIGNAL CROSSING ADDISON ROAD ON NORTH SIDE OF IL RTE. 64	H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	H	FH	H	H	FH	H	H	FH	H	H
PEDESTRIAN SIGNAL CROSSING ADDISON ROAD ON SOUTH SIDE OF IL RTE. 64	H	H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	FH	H	H	FH	H	H	FH	H	H
PEDESTRIAN SIGNAL CROSSING IL RTE. 64 ON EAST SIDE OF ADDISON ROAD	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNAL CROSSING IL RTE. 64 ON WEST SIDE OF ADDISON ROAD	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
IL RTE. 64 (EB) YELLOW FLASHERS WEST OF TRACKS	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	D	D	D	FL/Y	FL/Y	D	D	D	D	FL/Y	FL/Y	D	FL/Y	FL/Y
IL RTE. 64 (EB) YELLOW FLASHERS EAST OF TRACKS	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	D	D	D	FL/Y	FL/Y	D	D	D	D	FL/Y	FL/Y	D	FL/Y	FL/Y

	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK	1LL	1MM	1NN	1PP	1QQ	1RR	1SS	1TT	1UU	1VV	1WW	1XX	1YY	1ZZ	1AAA	1BBB	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	CLEAR TO NORMAL SEQUENCE
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	16				20					20					24			24			28					28				
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK	1LL	1MM	1NN	1PP	1QQ	1RR	1SS	1TT	1UU	1VV	1WW	1XX	1YY	1ZZ	1AAA	1BBB	2	3	4	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1BB	1CC	1DD	2,3 OR 4	1FF	1GG	1HH	1JJ	2 OR 3	1LL	1MM	1NN	1PP	4	1RR	1SS	2 OR 3	1UU	1VV	4	1XX	1YY	1ZZ	1AAA	2 OR 3	4				◇
IL RTE. 64 (EB) NEAR RT. FAR RT & 2 MID M.A. SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◇
IL RTE. 64 (EB) END MAST ARM AND FAR LEFT SIGNALS	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	G ←	R ←	R ←	◇
IL RTE. 64 (WB) NEAR RIGHT AND FAR RIGHT SIGNALS	R/Y →	R	R	R	R	R	R	R	R	R	R	R	R	R	G^R →	Y^R →	R	G^R →	Y^R →	R	R	R	R	R	R	R	R	G	R	◇
IL RTE. 64 (WB) MID MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
IL RTE. 64 (WB) END MAST ARM AND FAR LEFT SIGNALS	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	G ←	R ←	◇
ADDISON ROAD (SB) NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R	R	R	G	R	R	G	◇
ADDISON ROAD (SB) R.R. CANTILEVER SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R	R	R	G	R	R	G	◇
ADDISON ROAD (SB) MEDIAN POST AND FAR LEFT SIGNALS	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	G ←	Y ←	R ←	G ←	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	◇
ADDISON ROAD, SOUTH OF TRACKS (NB) NEAR RT AND RT R.R. CANTILEVER SIGNALS	R	R	R	R	G	Y	R	R	R	G	G	G	G	G	R	R	R	R	R	R	G	Y	R	R	R	G	R	R	G	◇
ADDISON ROAD, SOUTH OF TRACKS (NB) NEAR LT AND END R.R. CANTILEVER SIGNALS	Y ←	R ←	R ←	R ←	G ←	Y ←	R ←	R ←	R ←	G ←	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	◇
ADDISON ROAD, NORTH OF TRACKS (NB) FAR RIGHT AND 2 MAST ARM SIGNALS	R	R	R	R	G	G	G	Y	R	G	G	G	G	G	R	R	R	R	R	R	G	G	G	Y	R	G	R	R	G	◇
ADDISON ROAD, NORTH OF TRACKS (NB) END MAST ARM AND FAR LEFT SIGNALS	G ←	G ←	Y ←	R ←	G ←	G ←	G ←	Y ←	R ←	G ←	G ←	G ←	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	◇
PEDESTRIAN SIGNAL CROSSING ADDISON ROAD ON NORTH SIDE OF IL RTE. 64	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNAL CROSSING ADDISON ROAD ON SOUTH SIDE OF IL RTE. 64	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNAL CROSSING IL RTE. 64 ON EAST SIDE OF ADDISON ROAD	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	H	H	H	◇
PEDESTRIAN SIGNAL CROSSING IL RTE. 64 ON WEST SIDE OF ADDISON ROAD	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	FH	H	H	H	H	FH	H	H	H	◇
IL RTE. 64 (EB) YELLOW FLASHERS WEST OF TRACKS	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	D	FL/Y	FL/Y	◇
IL RTE. 64 (EB) YELLOW FLASHERS EAST OF TRACKS	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	D	FL/Y	FL/Y	◇

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

D = DARK

FL/Y = FLASHING YELLOW BEACON

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, OR 4 IS TERMINATED.

RAILROAD NOTES:

1. RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

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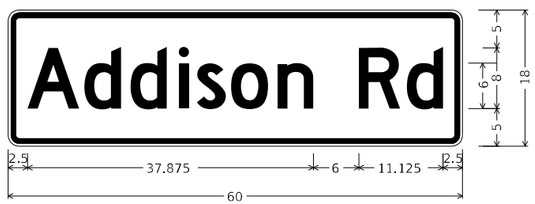
SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.5	1	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	15
	SIGN PANEL - TYPE 2	SQ FT	25
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	208
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	123
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1502
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2003
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2674
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1604
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	65
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	396
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	8
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
	DRILL EXISTING HANDHOLE	EACH	9
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
	INDUCTIVE LOOP DETECTOR	EACH	2
	DETECTOR LOOP, TYPE I	FOOT	583
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6179
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REBUILD EXISTING HANDHOLE	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	2
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	483
	CENTRACS LICENSE EXPANSION	EACH	1
	LED LAMP MODULE REPLACEMENT	EACH	75
	OUTDOOR RATED NETWORK CABLE	FOOT	124
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	4
	LED SIGNAL FACE VISOR HEATER	EACH	27
	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	28
	CAMERA MOUNTING ASSEMBLY	EACH	1

* - 100% COST TO THE VILLAGE OF VILLA PARK

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND ADDISON RD

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

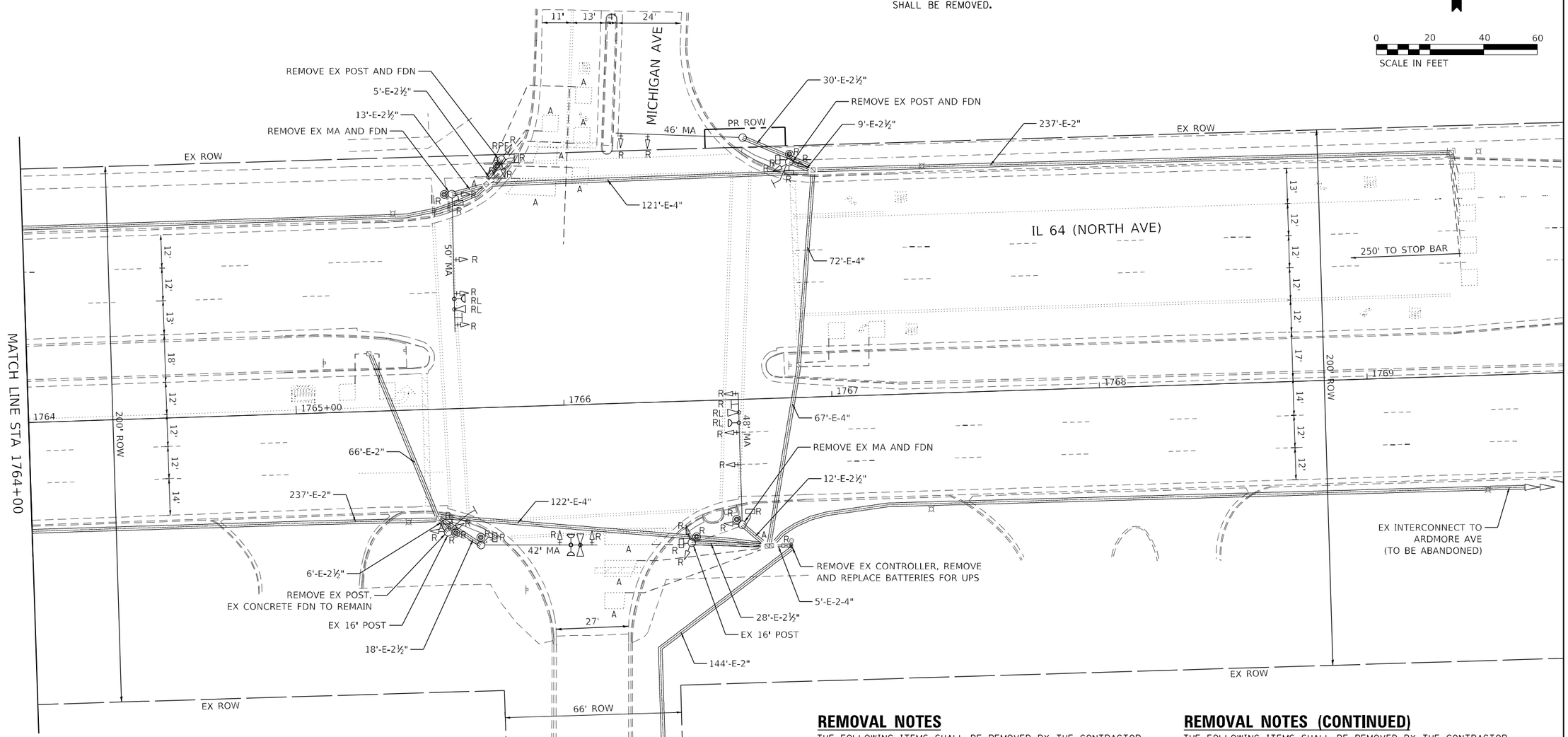
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	257
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

N

0 20 40 60
SCALE IN FEET



RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR

REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

16	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
3	EACH	TRAFFIC SIGNAL POST
8	EACH	PEDESTRIAN SIGNAL HEAD
7	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	STREET NAME SIGN PANEL
10	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	MAST ARM ASSEMBLY POLE

REMOVAL NOTES (CONTINUED)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1 EACH CONTROLLER (ASC/2S-1000)

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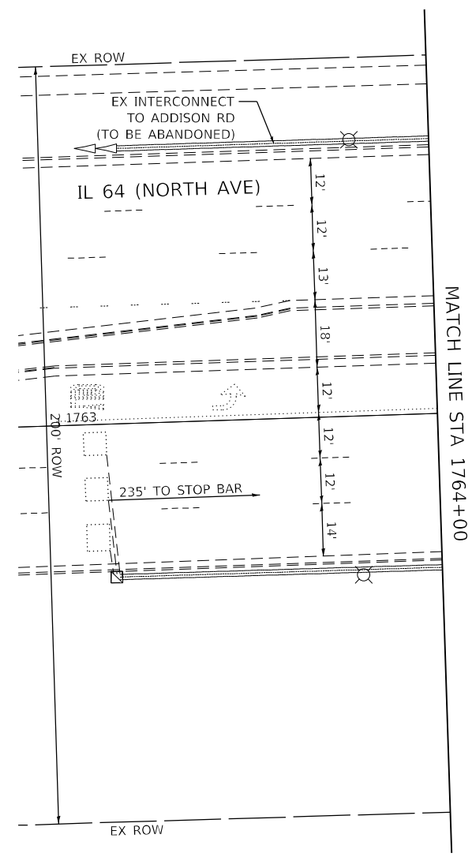
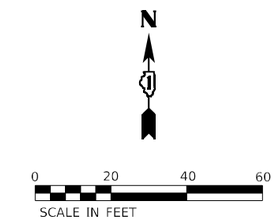
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND MICHIGAN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	258
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	





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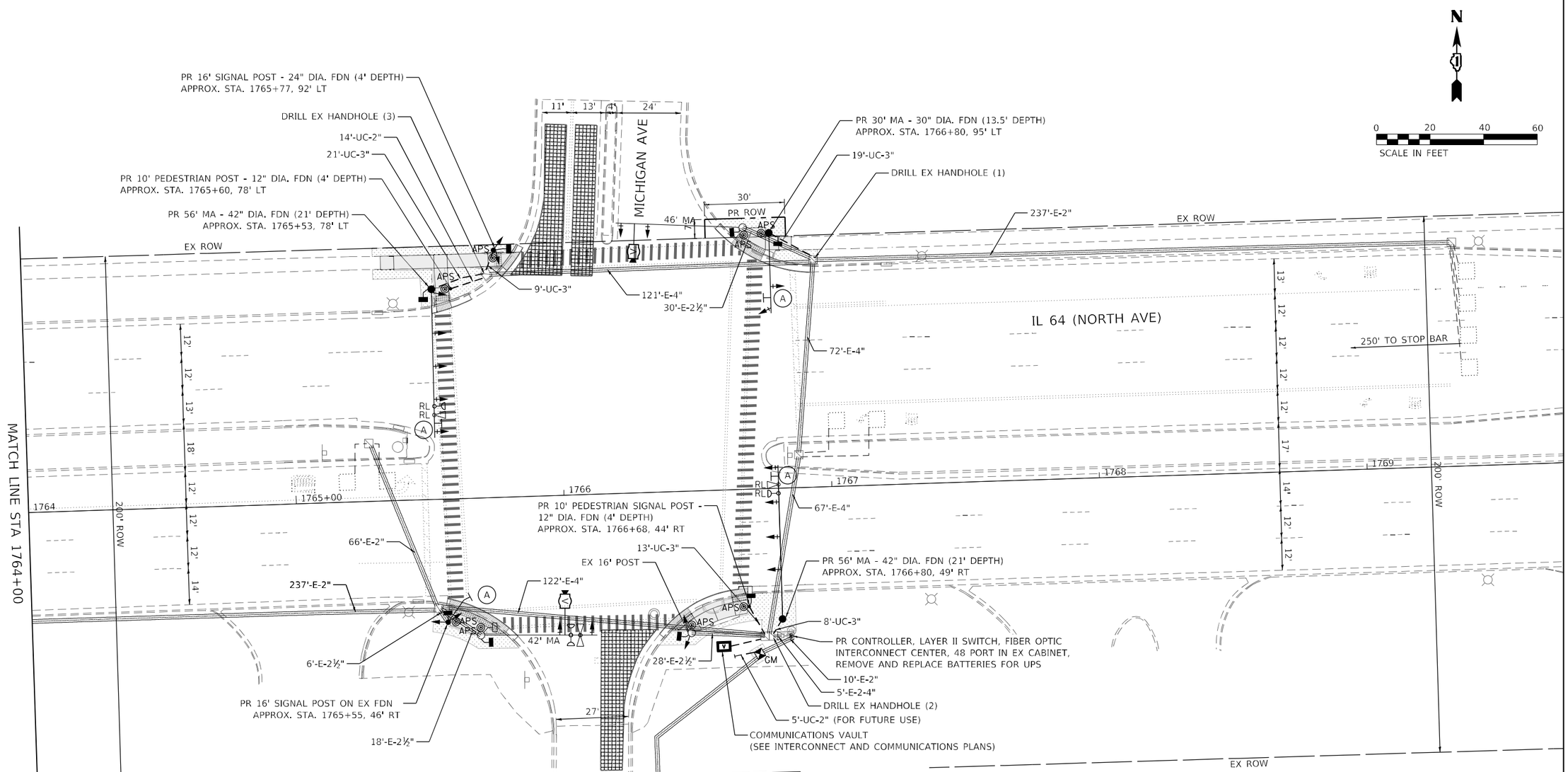
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND MICHIGAN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	259
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS ON ALL QUADRANTS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.
8. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE FOLLOWING PAY ITEM: SERVICE INSTALLATION, GROUND MOUNTED, METERED
9. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF THE FOLLOWING PAY ITEM: CONCRETE FOUNDATION, TYPE A

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND MICHIGAN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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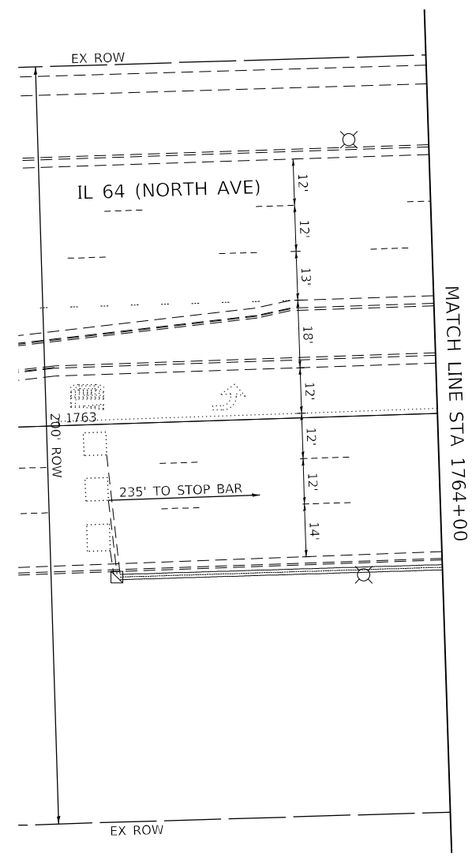
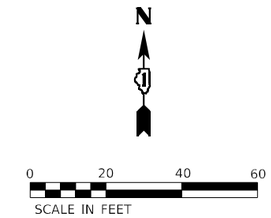
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	





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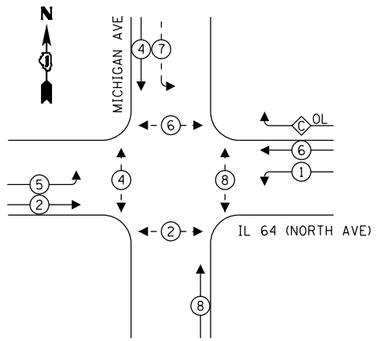
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND MICHIGAN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	261
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

PROTECTED PHASE

PROTECTED/PERMITTED PHASE

PEDESTRIAN PHASE

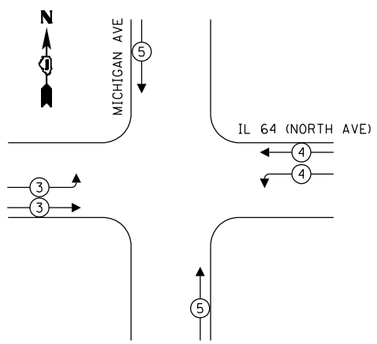
OL OVERLAP

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
C	=	6	+	7

NOTES:

THE CONTROLLER SHALL BE PROGRAMMED WITH A PEDESTRIAN PROTECT THAT OMITS RIGHT TURN OVERLAP 'C' WHEN A PUSH BUTTON IS ACTIVATED FOR PEDESTRIAN PHASE 6.

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

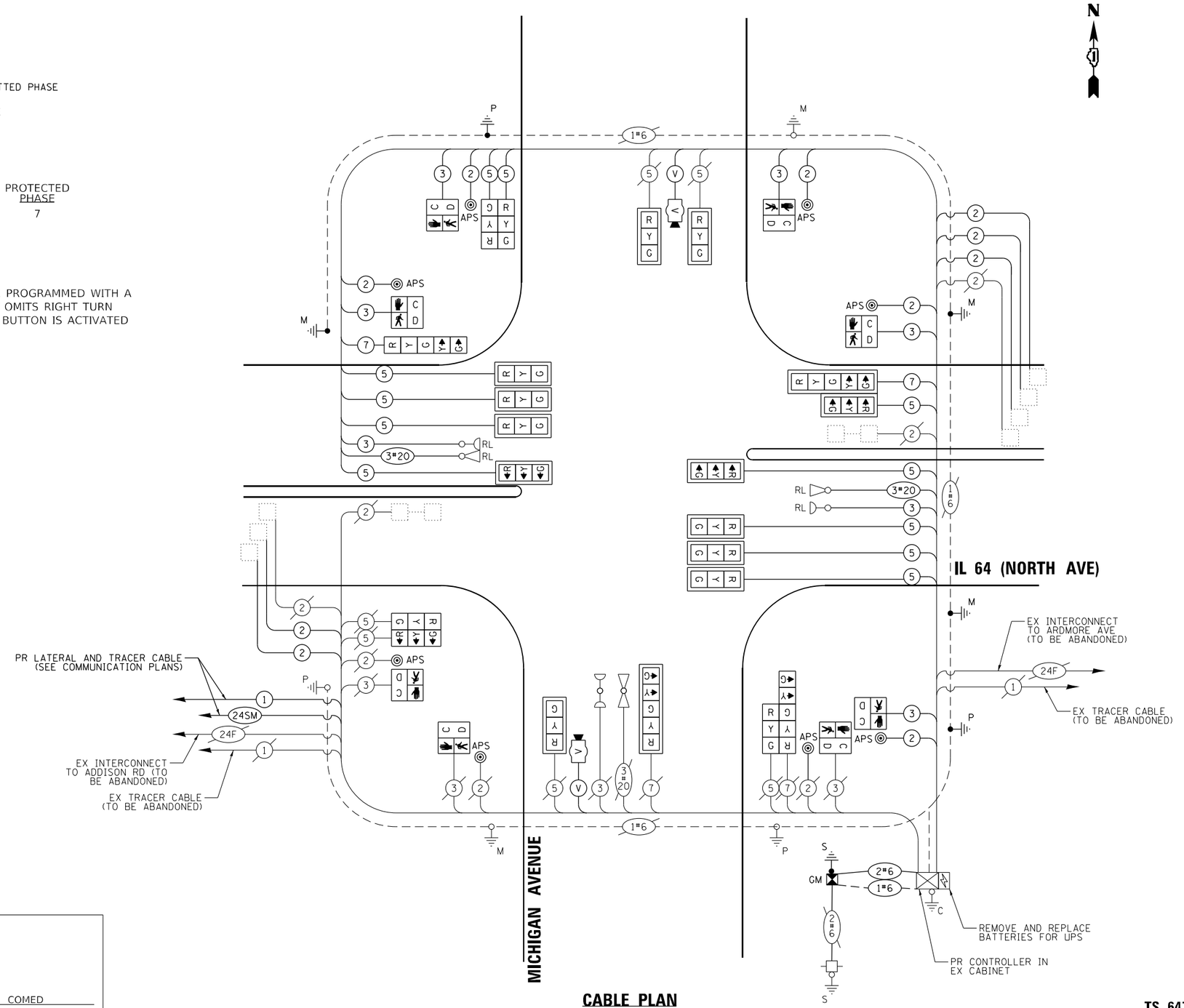


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	17	11	187
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH LAYER II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			609
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1214

ENERGY COSTS TO:
PRIVATE BENEFIT

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 29071-28074



CABLE PLAN

(NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND MICHIGAN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	262
		CONTRACT NO. 62N33		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9	1	ZZ	2

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	48
	SIGN PANEL - TYPE 2	SQ FT	25
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	19
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	70
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1172
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1773
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2752
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	407
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1871
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	58
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	102
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	2
	CONCRETE FOUNDATION, TYPE A	FOOT	8
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
	DRILL EXISTING HANDHOLE	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
	INDUCTIVE LOOP DETECTOR	EACH	5
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6104
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	522
	CENTRACS LICENSE EXPANSION	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
	LED SIGNAL FACE VISOR HEATER	EACH	21
	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

* - 100% COST TO THE VILLAGE OF VILLA PARK

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND MICHIGAN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	263
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

NOTES

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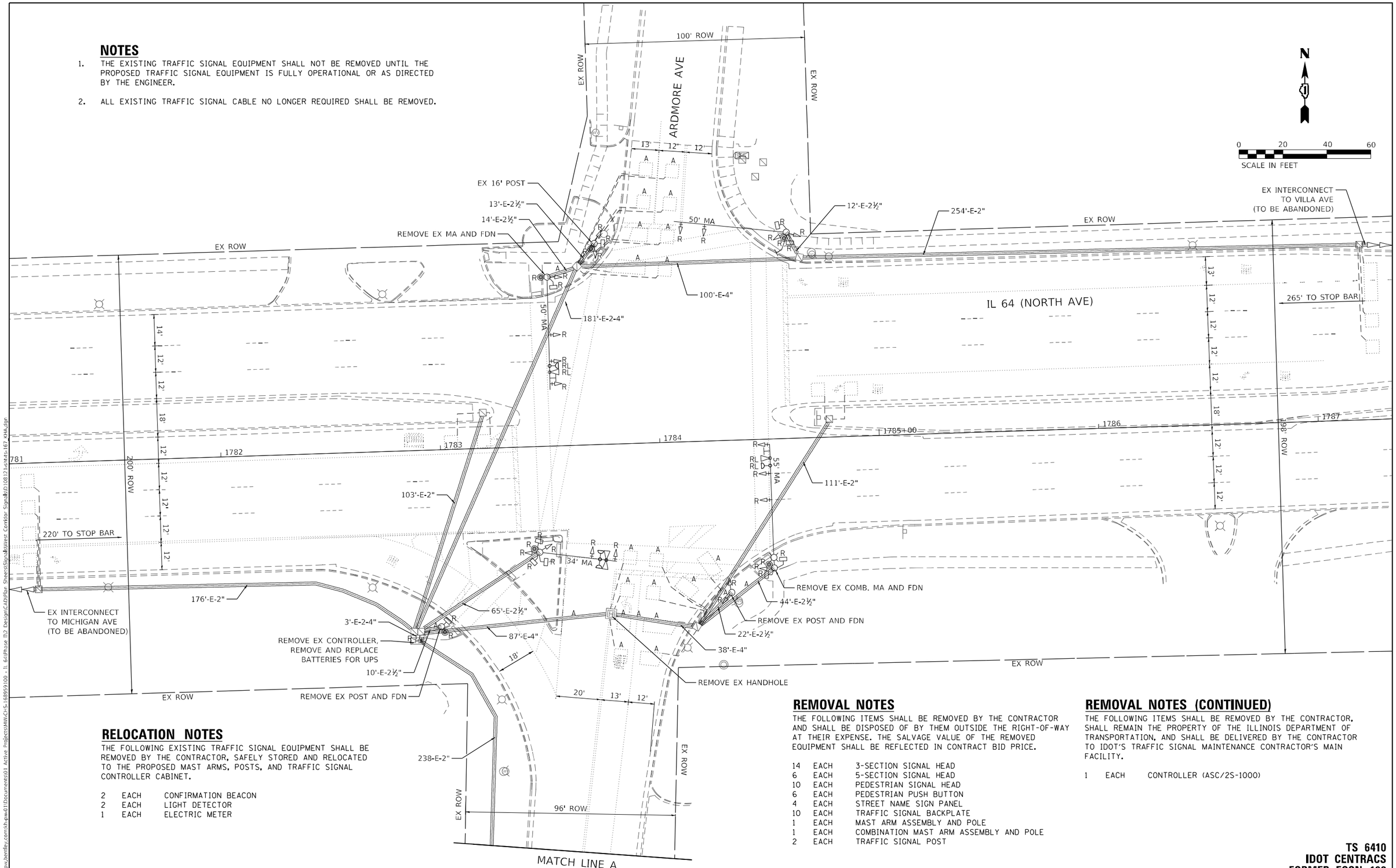

RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	ELECTRIC METER

REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

14	EACH	3-SECTION SIGNAL HEAD
6	EACH	5-SECTION SIGNAL HEAD
10	EACH	PEDESTRIAN SIGNAL HEAD
6	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	STREET NAME SIGN PANEL
10	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	MAST ARM ASSEMBLY AND POLE
1	EACH	COMBINATION MAST ARM ASSEMBLY AND POLE
2	EACH	TRAFFIC SIGNAL POST

REMOVAL NOTES (CONTINUED)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1	EACH	CONTROLLER (ASC/2S-1000)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

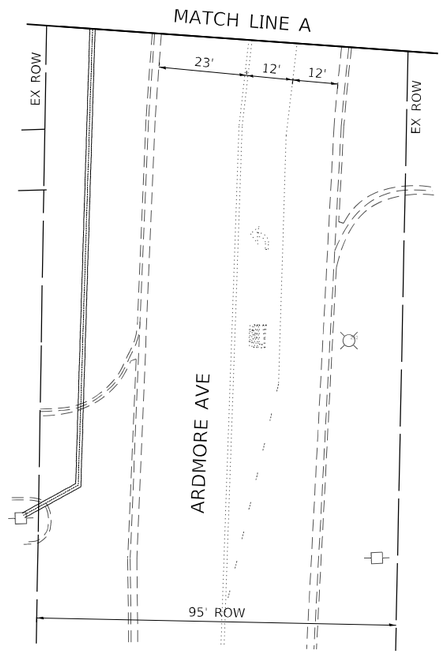
TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND ARDMORE AVE

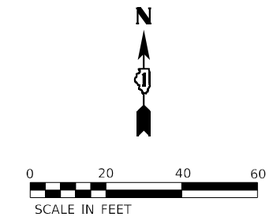
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	264

CONTRACT NO. 62N33

ILLINOIS | FED. AID PROJECT





TS 6410
IDOT CENTRACS
FORMER ECON 192

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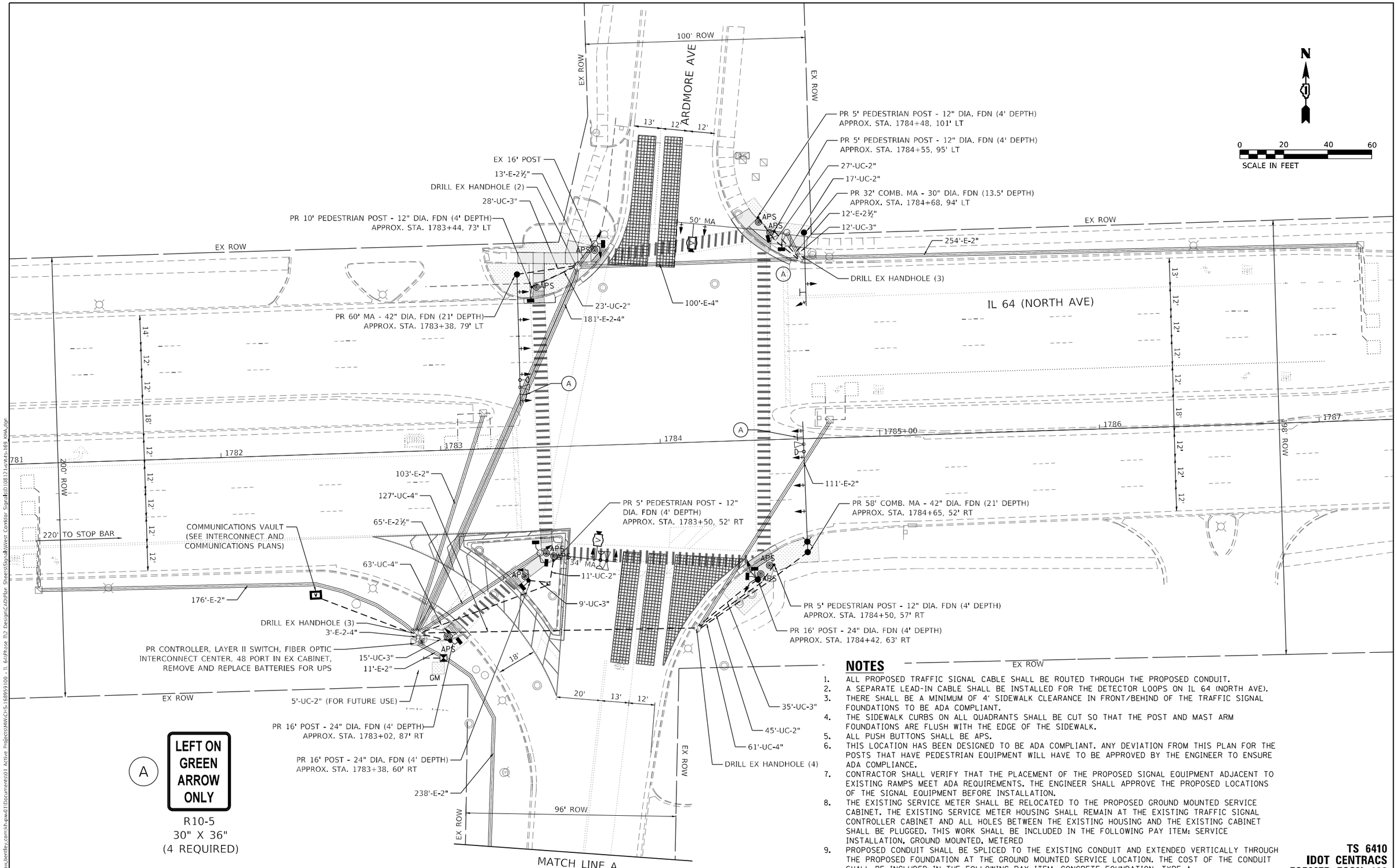
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND ARDMORE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	265
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	



NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS ON ALL QUADRANTS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.
8. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE FOLLOWING PAY ITEM: SERVICE INSTALLATION, GROUND MOUNTED, METERED
9. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE FOLLOWING PAY ITEM: CONCRETE FOUNDATION, TYPE A

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND ARDMORE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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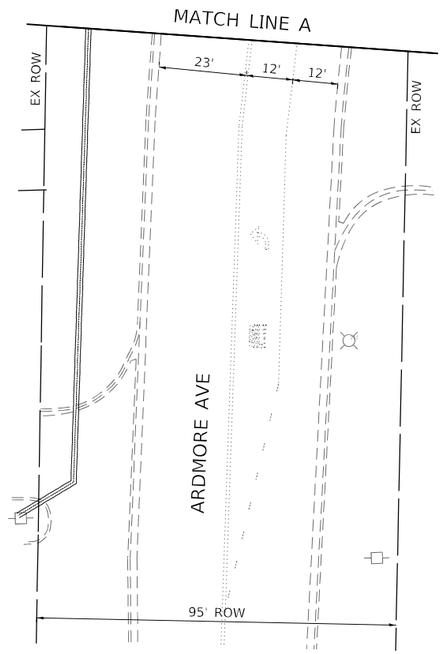
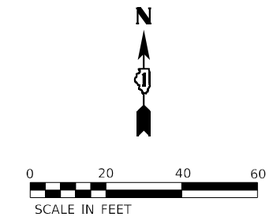
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		





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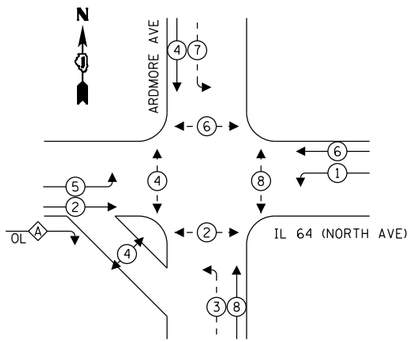
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND ARDMORE AVE

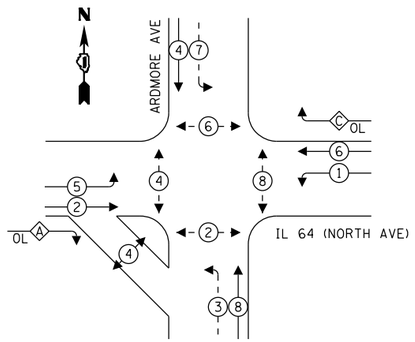
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	267
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

EXISTING CONTROLLER SEQUENCE

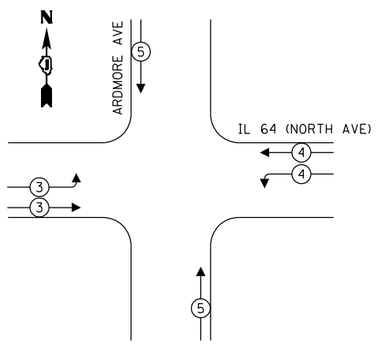


PROPOSED CONTROLLER SEQUENCE



OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

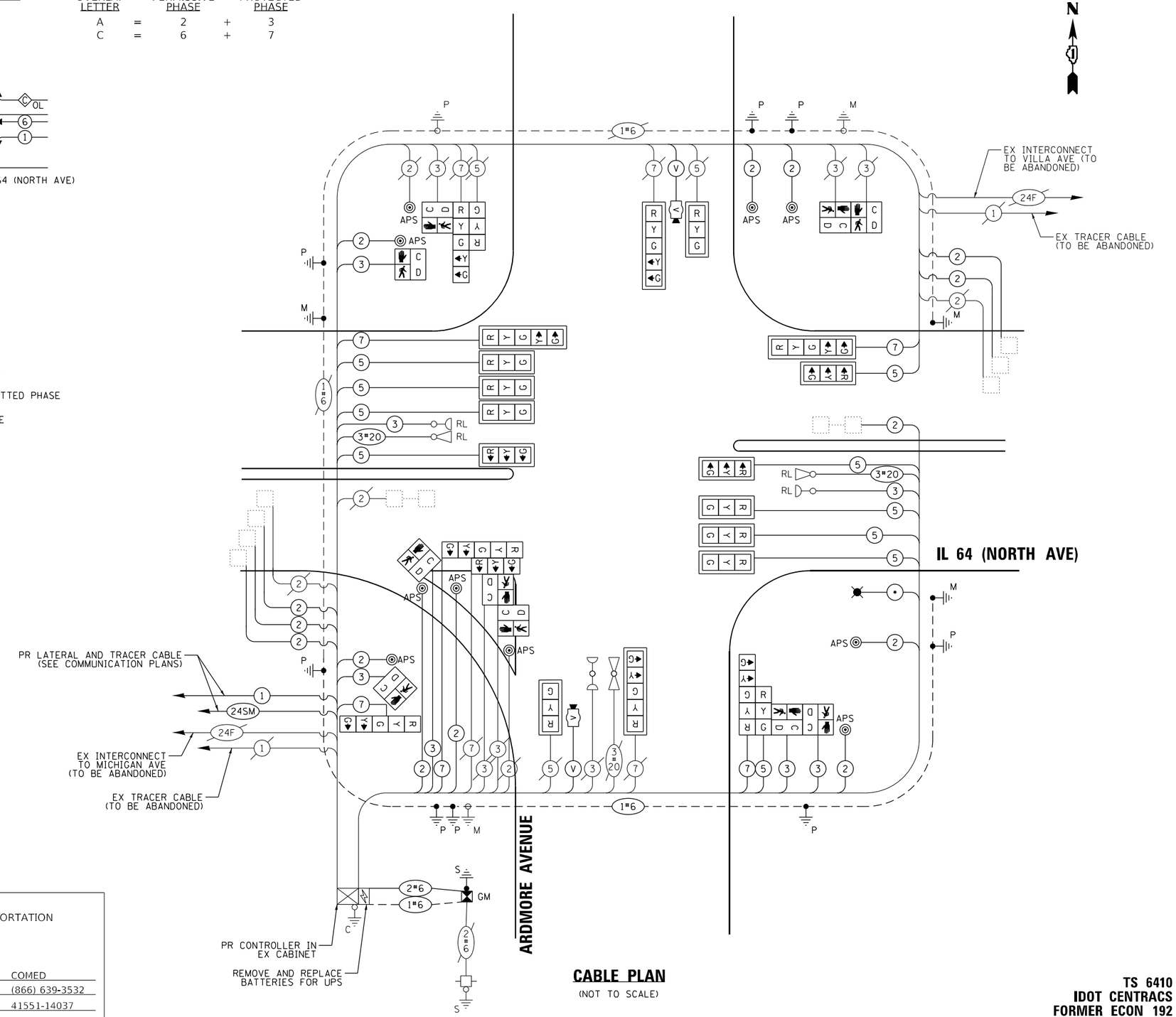
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	14	11	154
	4-SECTION	-	14	-
	5-SECTION	8	13	104
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		10	15	150
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	VIDEO	2	20	40
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	LAYER II OR III	1	35	35
CELLULAR MODEM		-	15	-
		TOTAL UPS SIZING		658
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
		TOTAL SERVICE WIRE SIZING		1263

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 41551-14037



CABLE PLAN

(NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

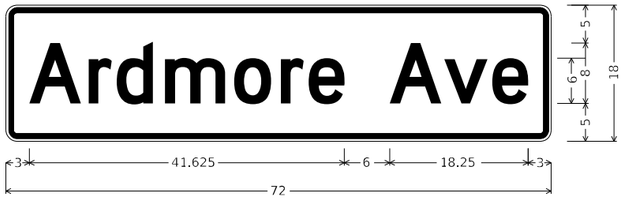
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND ARDMORE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	268
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9	1	ZZ	2

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	48
	SIGN PANEL - TYPE 2	SQ FT	25
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	128
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	99
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	251
	HANDHOLE	EACH	1
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1824
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1617
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3180
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1078
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1613
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	52
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	530
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	16
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	11
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	15
	INDUCTIVE LOOP DETECTOR	EACH	6
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7699
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	605
	CENTRACS LICENSE EXPANSION	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	4
	LED SIGNAL FACE VISOR HEATER	EACH	21
	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

* - 100% COST TO THE VILLAGE OF VILLA PARK

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND ARDMORE AVE

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

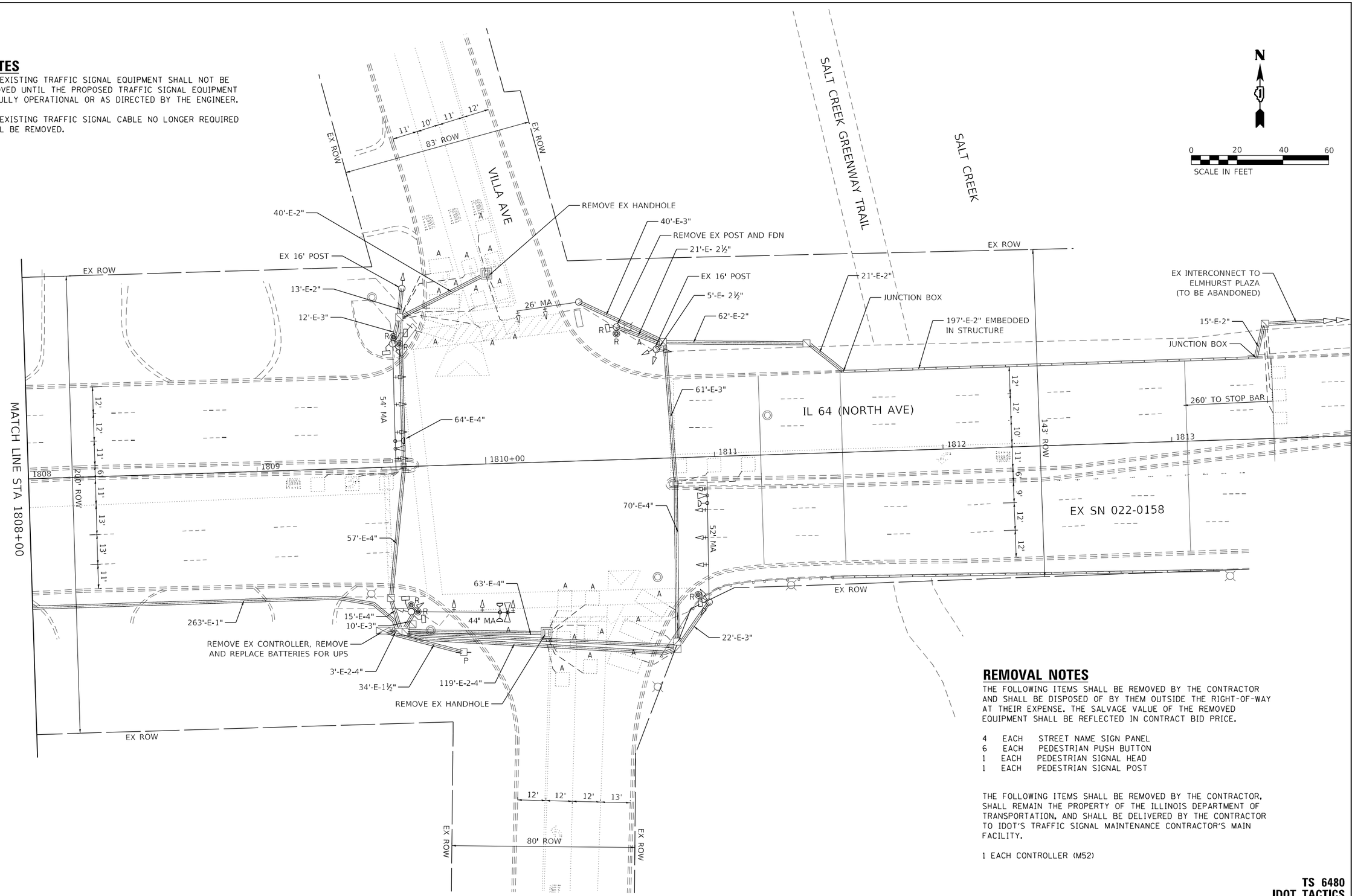
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	269

CONTRACT NO. 62N33

ILLINOIS | FED. AID PROJECT

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

4	EACH	STREET NAME SIGN PANEL
6	EACH	PEDESTRIAN PUSH BUTTON
1	EACH	PEDESTRIAN SIGNAL HEAD
1	EACH	PEDESTRIAN SIGNAL POST

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1 EACH CONTROLLER (M52)

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DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND VILLA AVE

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

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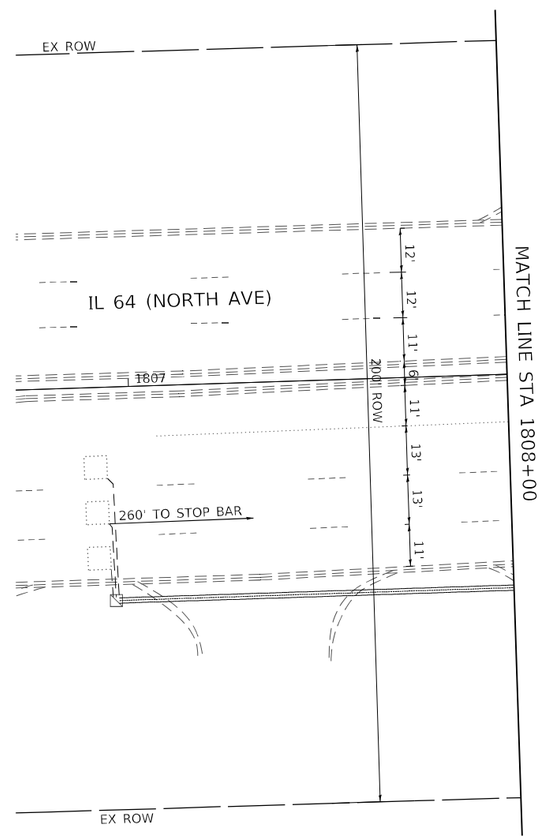

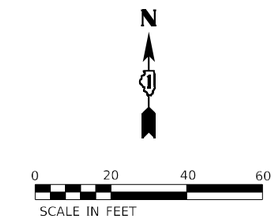

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TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND VILLA AVE

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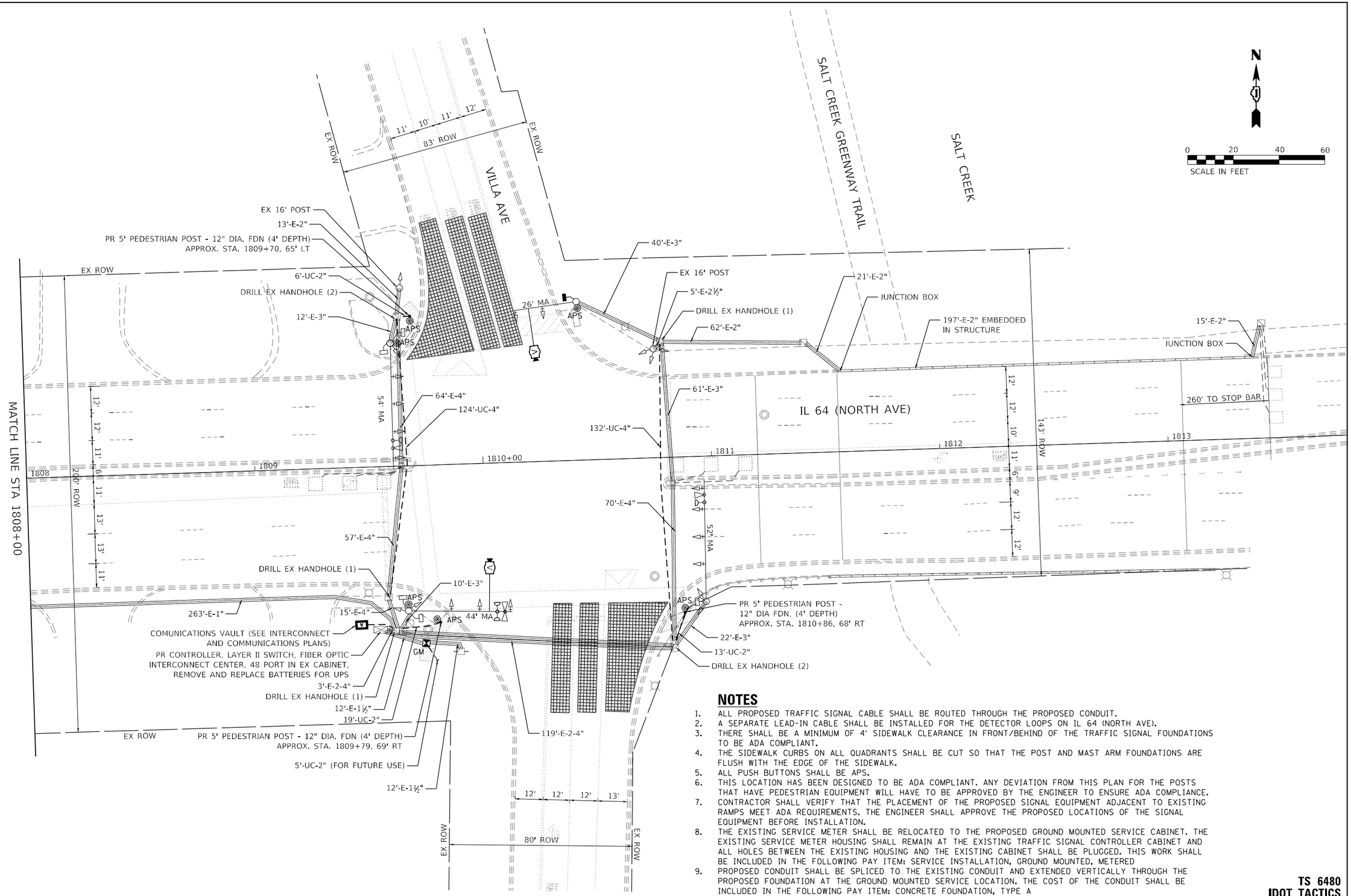

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9. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE FOLLOWING PAY ITEM: CONCRETE FOUNDATION, TYPE A

TS 6480
IDOT TACTICS
FORMER EAGLE 2P

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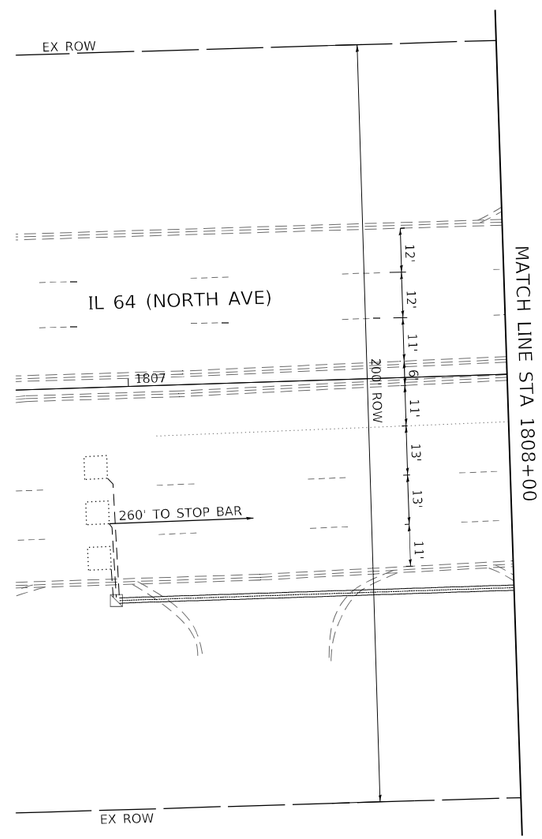
	DRAWN -	REVISED -	
PLOT SCALE =	CHECKED -	REVISED -	
PLOT DATE =	DATE -	REVISED -	

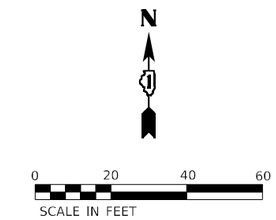
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND VILLA AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	272
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		





TS 6480
IDOT TACTICS
FORMER EAGLE 2P

MODEL: Default
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PLOT DATE =	DATE -	REVISED -

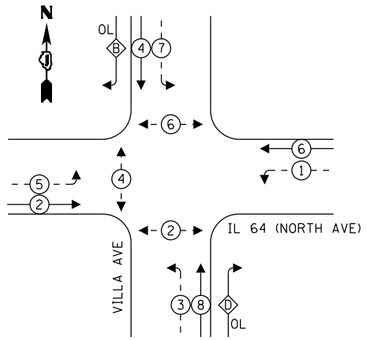
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND VILLA AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	273
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

PROTECTED PHASE

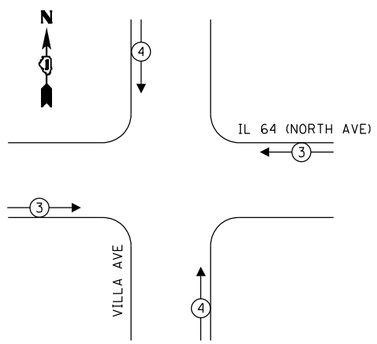
PROTECTED/PERMITTED PHASE

PEDESTRIAN PHASE

OL — OVERLAP

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

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

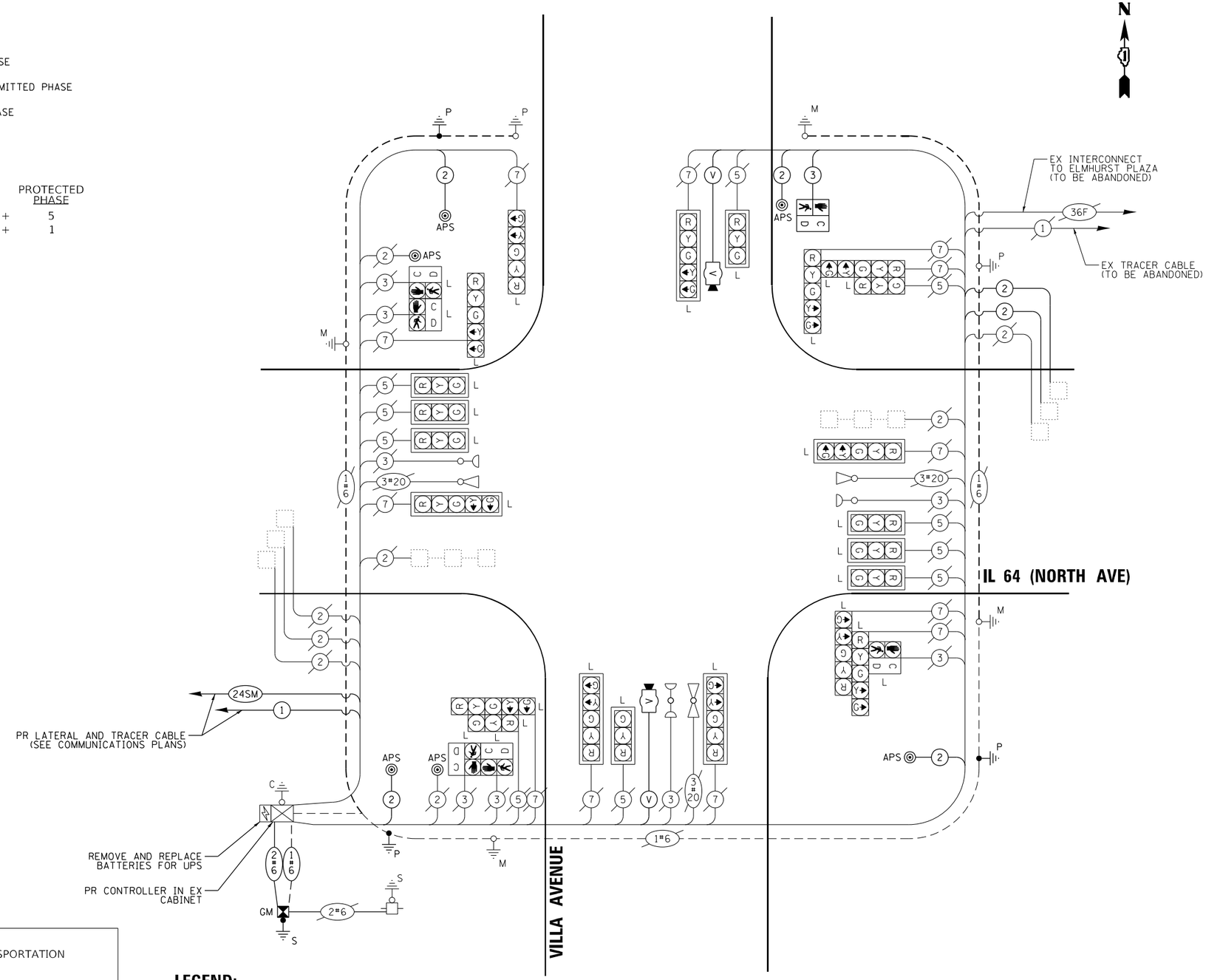


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	10	11	110
	4-SECTION	-	14	-
	5-SECTION	12	13	156
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		6	15	90
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	VIDEO	2	20	40
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	LAYER II OR III	1	35	35
CELLULAR MODEM		-	15	-
	TOTAL UPS SIZING			606
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
	TOTAL SERVICE WIRE SIZING			1211

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 41551-14037



LEGEND:

L = LED LAMP MODULE REPLACEMENT

CABLE PLAN

(NOT TO SCALE)

TS 6480
IDOT TACTICS
FORMER EAGLE 2P

MODEL: Default
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PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND VILLA AVE

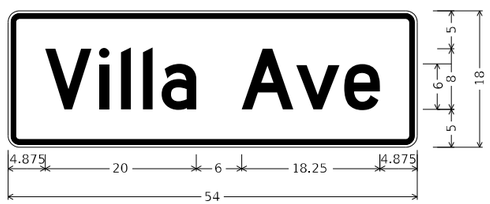
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	274
		CONTRACT NO. 62N33		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	13.5
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	43
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	256
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	780
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	359
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1098
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	64
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	363
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	7
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2237
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
LED LAMP MODULE REPLACEMENT	EACH	90
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3
LED SIGNAL FACE VISOR HEATER	EACH	22
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	15
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

TS 6480
IDOT TACTICS
FORMER EAGLE 2P

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PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND VILLA AVE

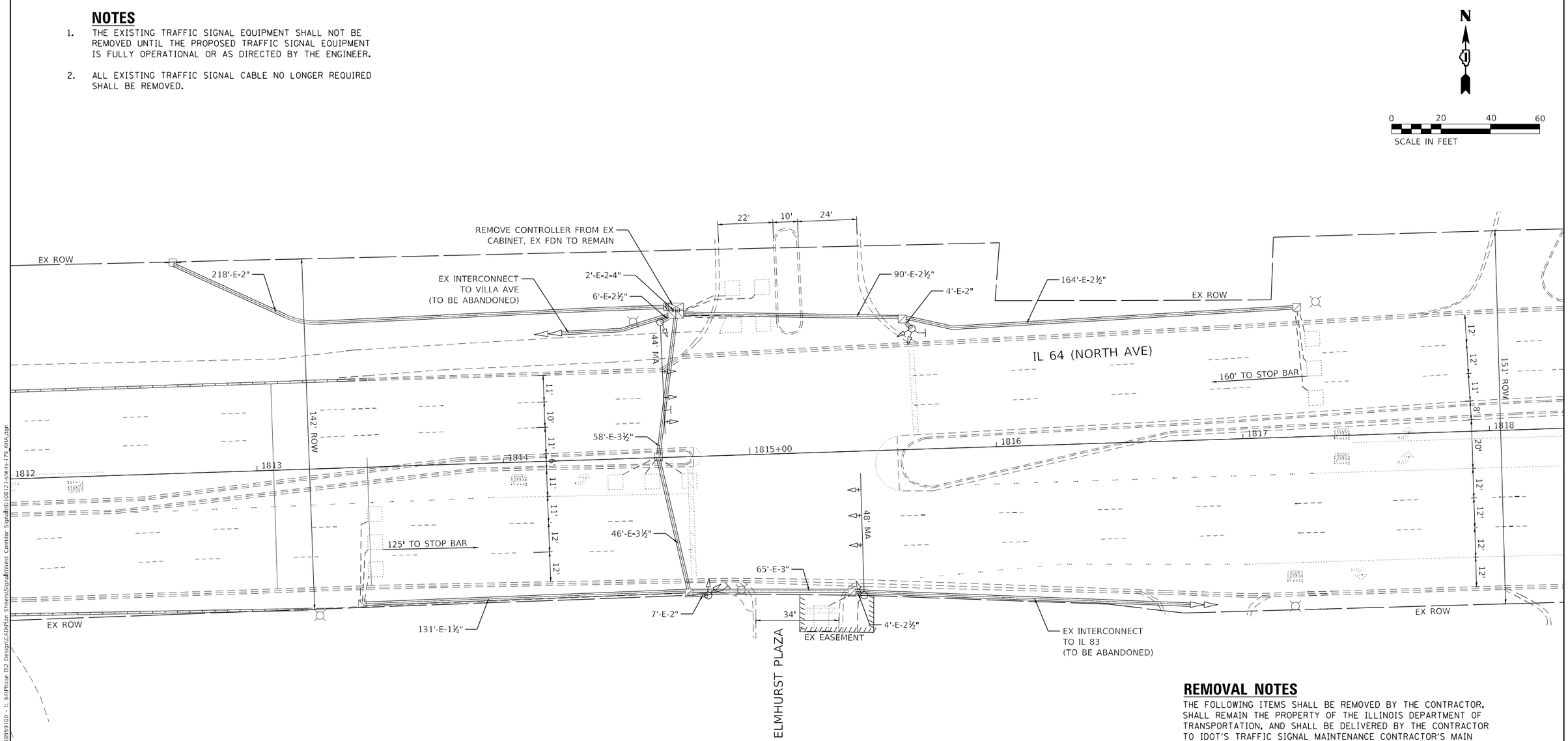
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	275
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.

2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1 EACH CONTROLLER (M52)

TS 6505
IDOT TACTICS
FORMER EAGLE 2P

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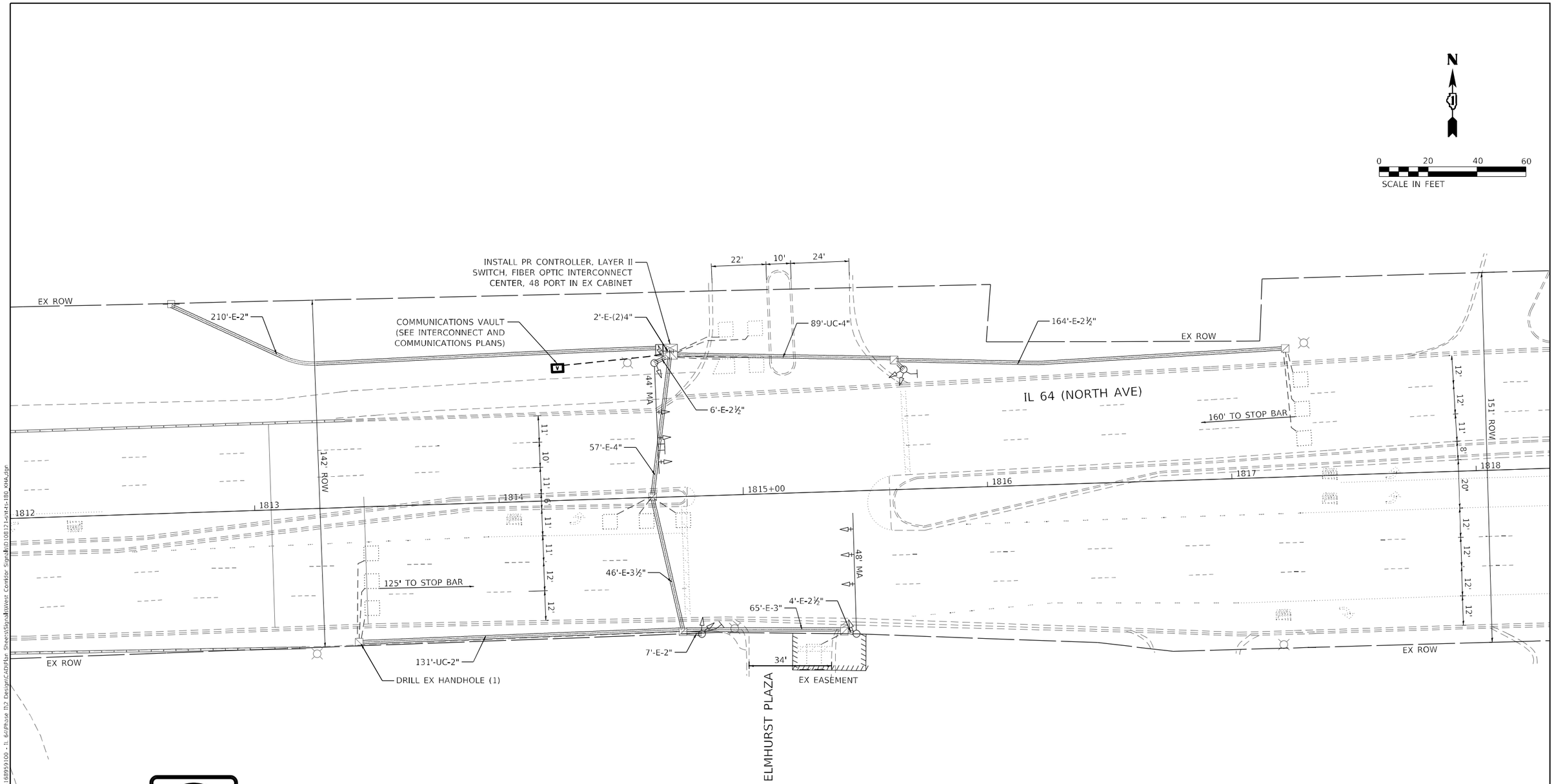
PLOT SCALE =	CHECKED -	REVISED -	
PLOT DATE =	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND ELMHURST PLAZA

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	276
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



TS 6505
IDOT TACTICS
FORMER EAGLE 2P

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	DRAWN -	REVISED -	
PLOT SCALE =	CHECKED -	REVISED -	
PLOT DATE =	DATE -	REVISED -	

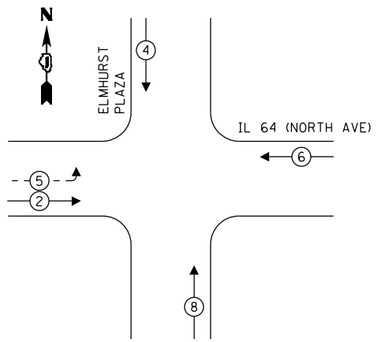
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND ELMHURST PLAZA

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	277
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

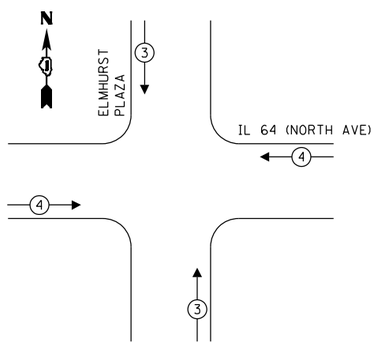
PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

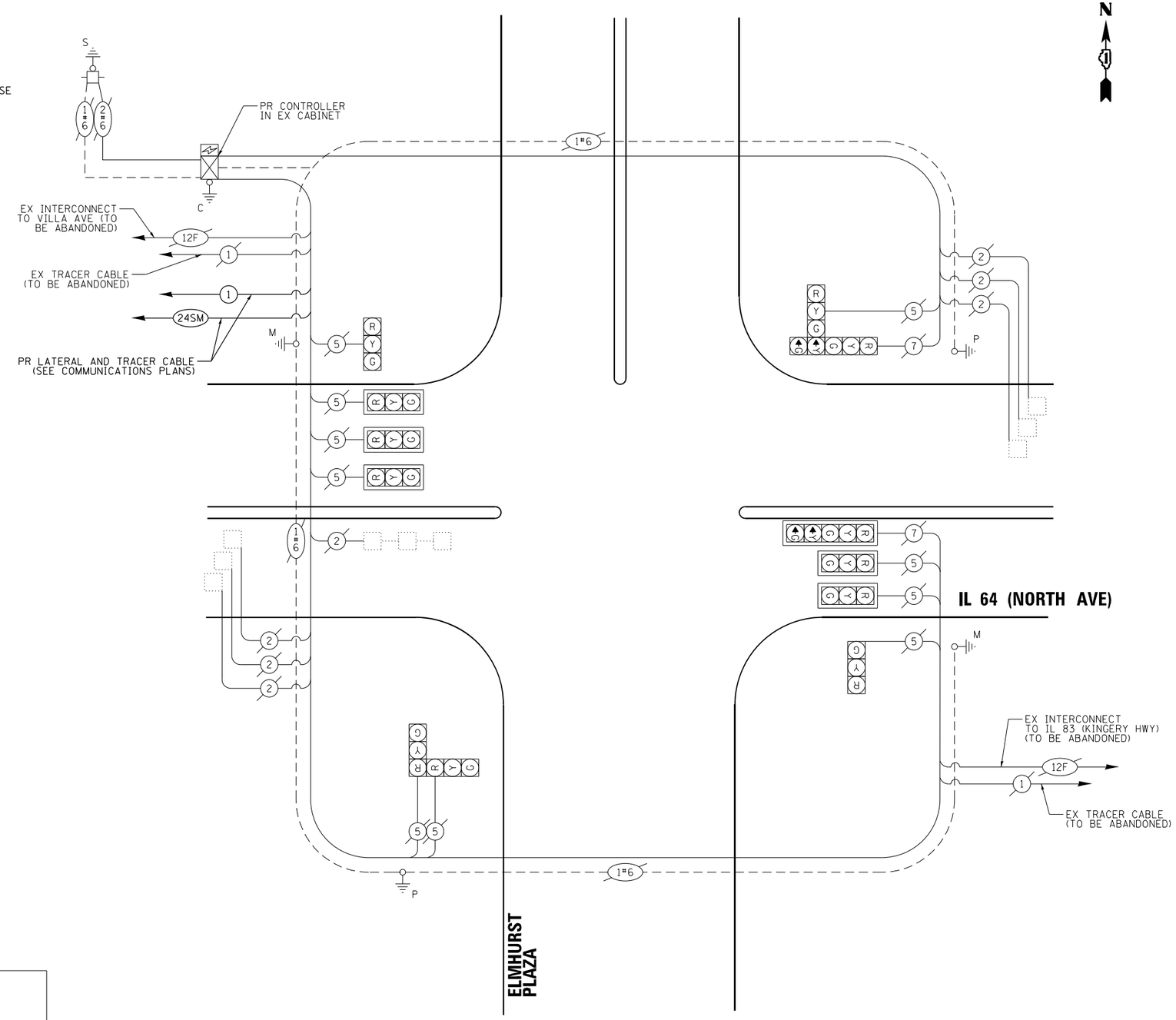


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	10	11	110
	4-SECTION	-	14	-
	5-SECTION	2	13	26
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		-	15	-
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	VIDEO	-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	LAYER II OR III	1	35	35
CELLULAR MODEM		-	15	-
	TOTAL UPS SIZING			346
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
	TOTAL SERVICE WIRE SIZING			951

ENERGY COSTS TO:
SKC PROPERTIES

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 29071-28074



CABLE PLAN

(NOT TO SCALE)

TS 6505
IDOT TACTICS
FORMER EAGLE 2P

MODEL: Default
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	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL 64 (NORTH AVE) AND ELMHURST PLAZA

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	278
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
TACTICS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

TS 6505
IDOT TACTICS
FORMER EAGLE 2P

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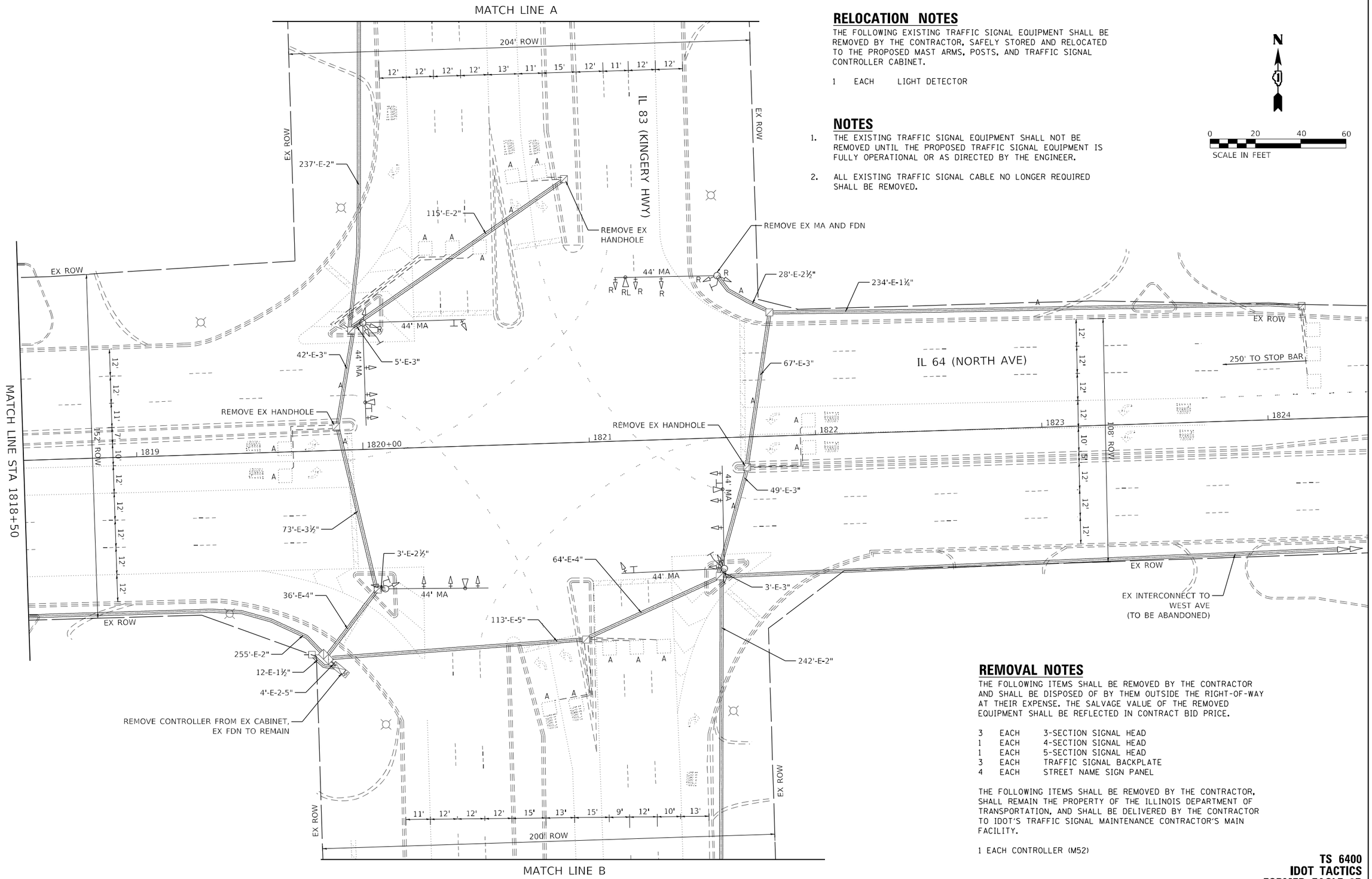
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND ELMHURST PLAZA

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	279
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

1 EACH LIGHT DETECTOR

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

N

0 20 40 60
SCALE IN FEET

REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

3	EACH	3-SECTION SIGNAL HEAD
1	EACH	4-SECTION SIGNAL HEAD
1	EACH	5-SECTION SIGNAL HEAD
3	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	STREET NAME SIGN PANEL

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

1 EACH CONTROLLER (M52)

TS 6400
IDOT TACTICS
FORMER EAGLE 2P

MODEL: Default
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PLOT DATE =	DATE -	REVISED -	

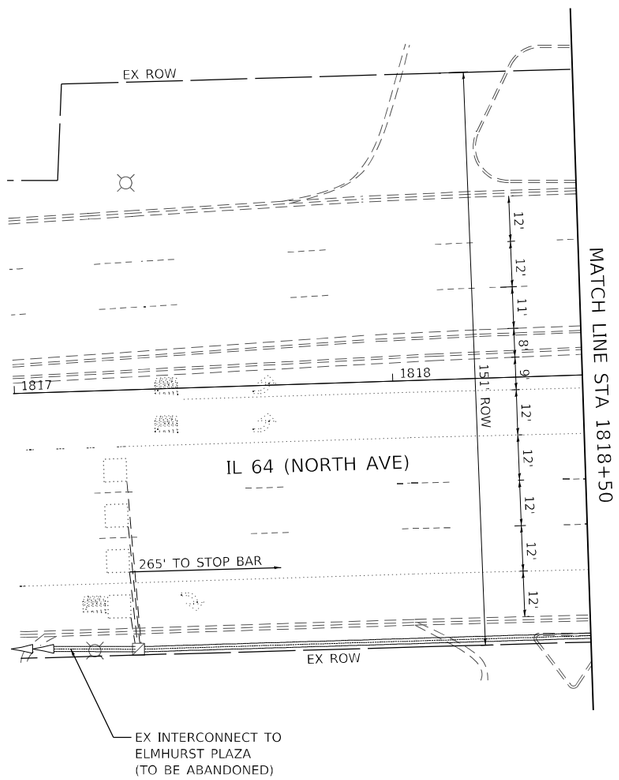
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

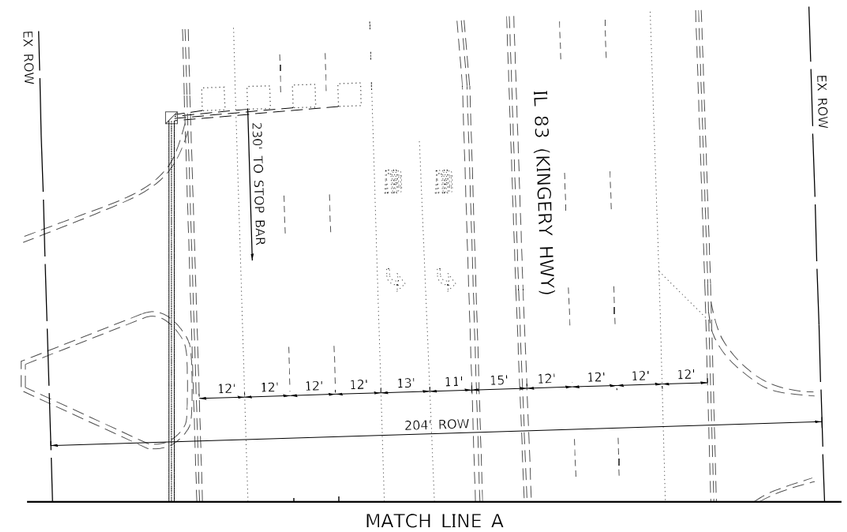
TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND IL 83 (KINGERY HWY)

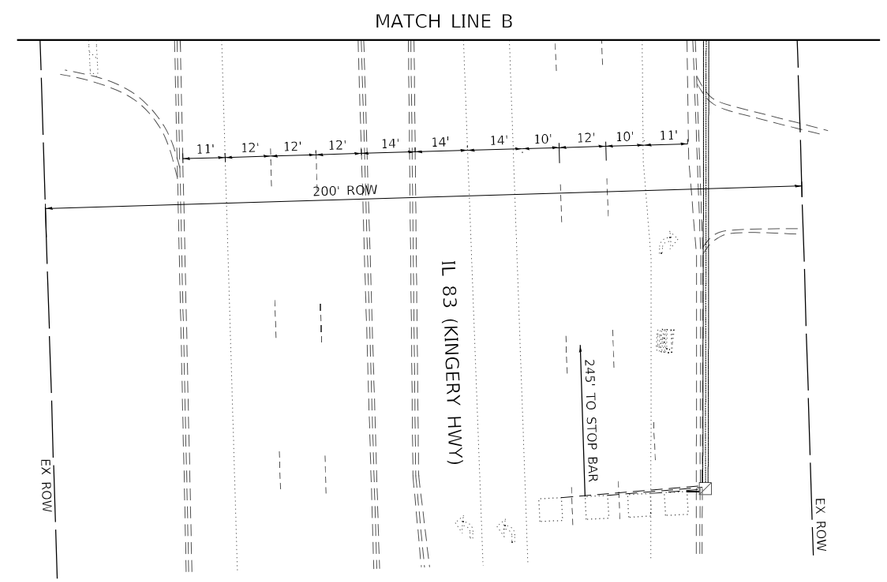
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

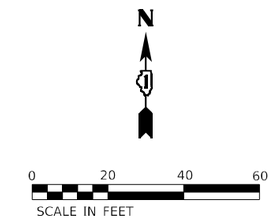
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	280

CONTRACT NO. 62N33
ILLINOIS | FED. AID PROJECT









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IDOT TACTICS
FORMER EAGLE 2P

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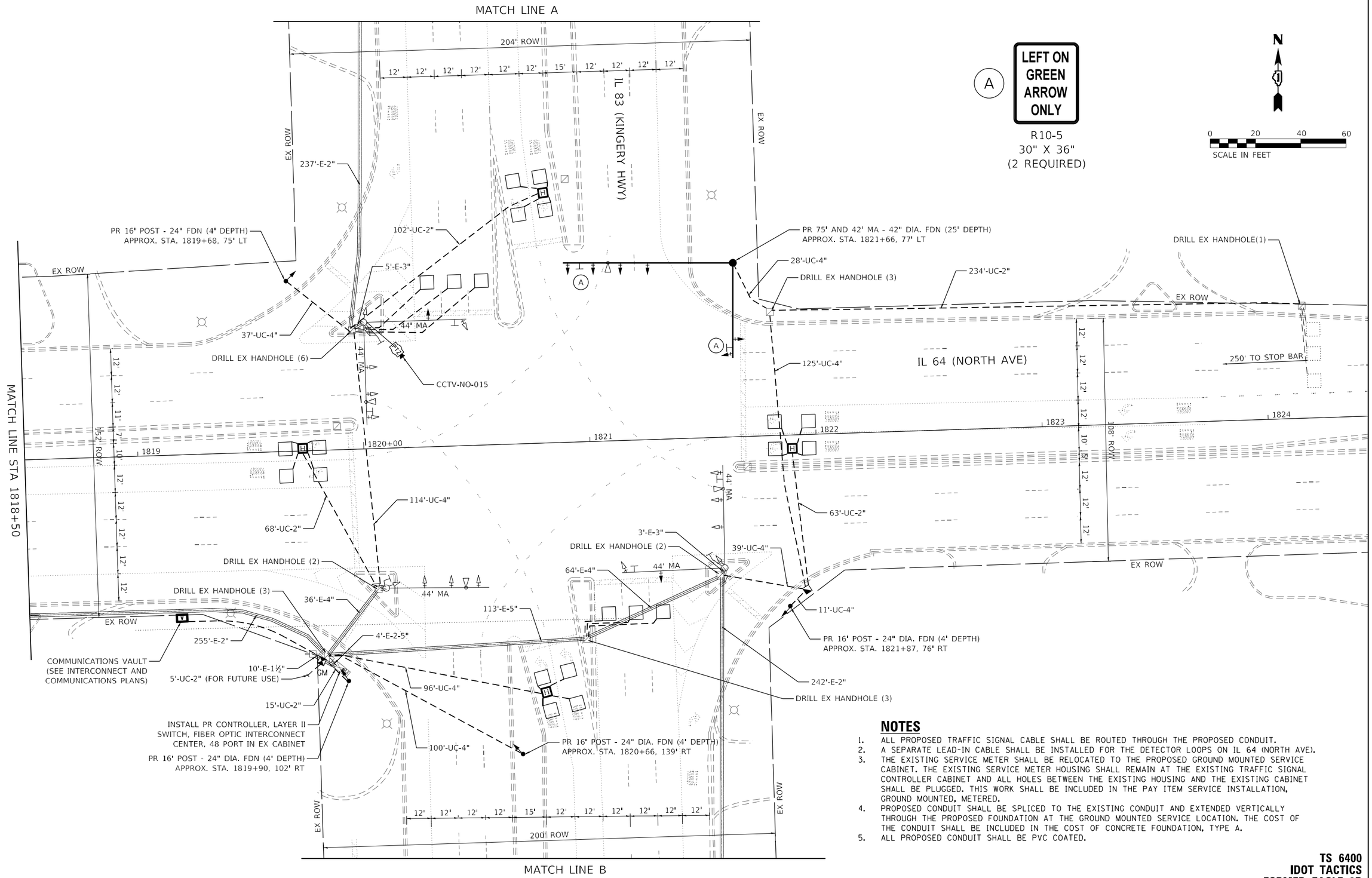
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND IL 83 (KINGERY HWY)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	281
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM SERVICE INSTALLATION, GROUND MOUNTED, METERED.
4. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.
5. ALL PROPOSED CONDUIT SHALL BE PVC COATED.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND IL 83 (KINGERY HWY)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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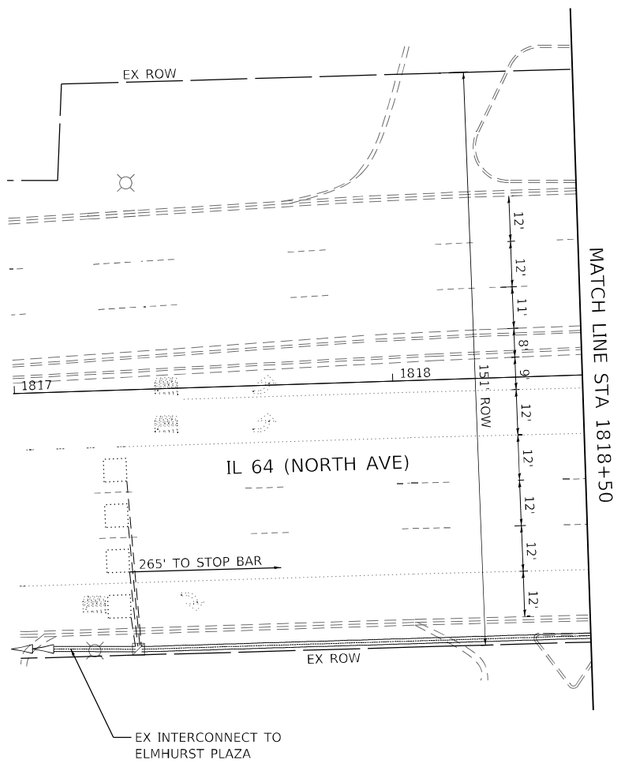
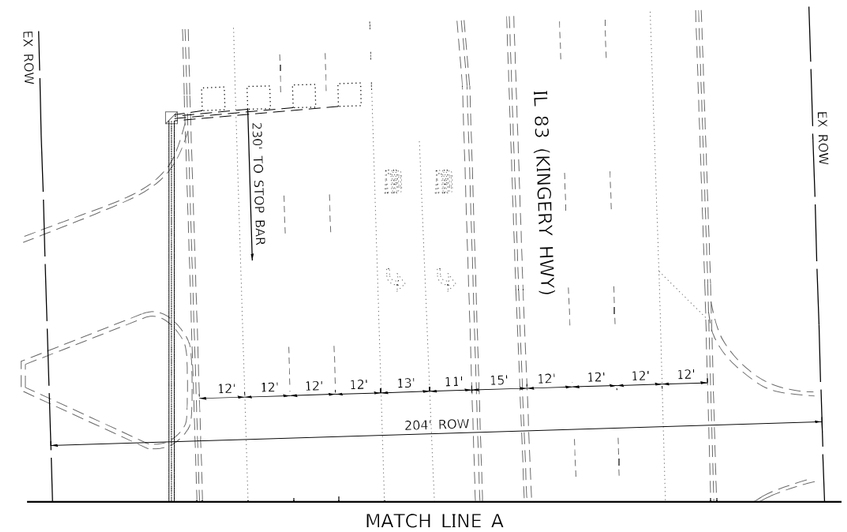
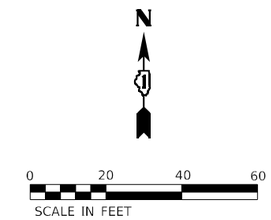
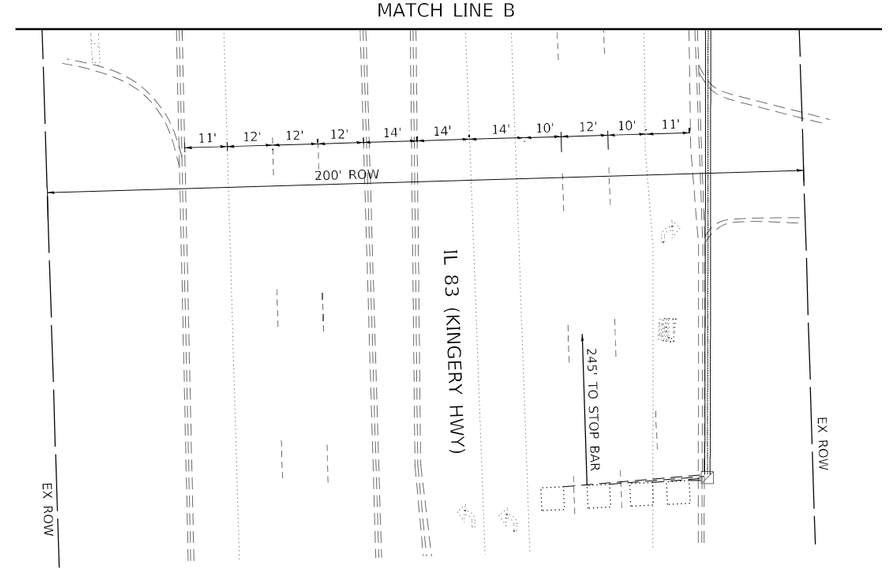
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		







MATCH LINE B



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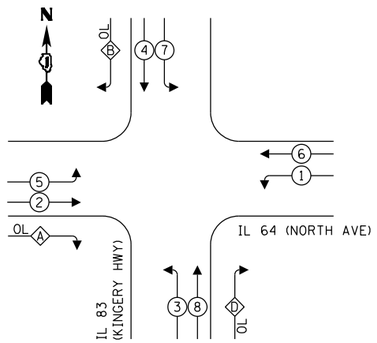
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND IL 83 (KINGERY HWY)

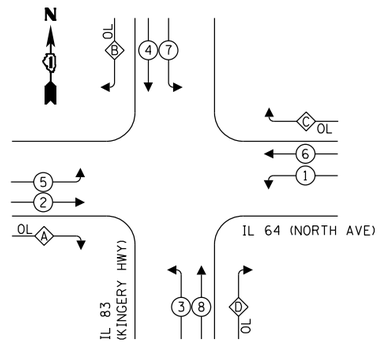
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	283
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

EXISTING CONTROLLER SEQUENCE

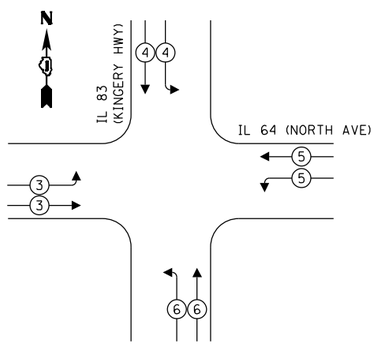


PROPOSED CONTROLLER SEQUENCE



OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	6	+	7
D	=	8	+	1

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

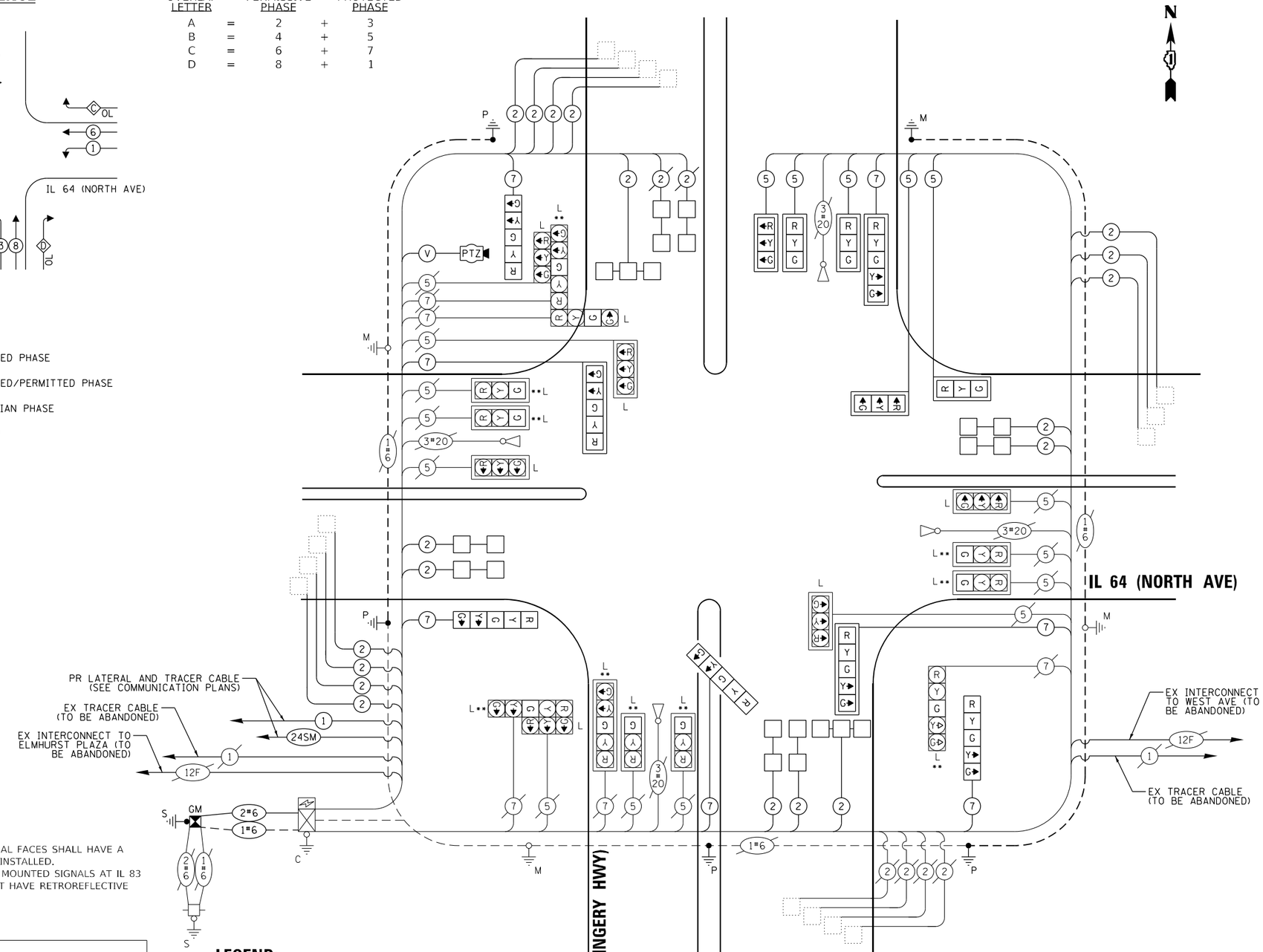
TYPE		QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	16	11	176
	4-SECTION	2	14	28
	5-SECTION	8	13	104
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		-	15	-
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	VIDEO	-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	LAYER II OR III	1	35	35
CELLULAR MODEM		-	15	-
PTZ		1	75	75
		TOTAL UPS SIZING		593
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180
CABINET HEATER		1	200	200
FLASHER		-	15	-
LED STREET NAME SIGN		-	120	-
LUMINAIRE		-	240	-
		TOTAL SERVICE WIRE SIZING		1198

NOTES

1. ONLY RED SIGNAL FACES SHALL HAVE A VISOR HEATER INSTALLED.
2. ALL MAST ARM MOUNTED SIGNALS AT IL 83 AND IL 64 MUST HAVE RETROREFLECTIVE BACKPLATES.

ENERGY COSTS TO:
CITY OF ELMHURST
209 N YORK ST
ELMHURST, IL 60126

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 17790-40113



LEGEND:

L = LED LAMP MODULE REPLACEMENT
RL = RELOCATE
* = ROADWAY LIGHTING CABLE
** = EX GREEN ARROW (NOT SHOWN) SHALL BE REPLACED WITH GREEN BALL (SHOWN) WITH LED SIGNAL MODULE REPLACEMENT

CABLE PLAN

(NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND IL 83 (KINGERY HWY)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	284
		CONTRACT NO. 62N33		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	15	2	ZZ	2

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	15
	SIGN PANEL - TYPE 2	SQ FT	55
	UNDERGROUND CONDUIT, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	487
	UNDERGROUND CONDUIT, 4" DIA., PVC COATED, GALVANIZED STEEL	FOOT	550
	HANDHOLE	EACH	1
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2264
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1835
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	944
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	32
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1041
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
	STEEL MAST ARM ASSEMBLY & POLE WITH DUAL MAST ARMS, 75 FT. & 42 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	20
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25
	DRILL EXISTING HANDHOLE	EACH	19
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8
	INDUCTIVE LOOP DETECTOR	EACH	12
	DETECTOR LOOP, TYPE I	FOOT	528
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	730
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	3
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	466
	LED LAMP MODULE REPLACEMENT	EACH	54
	OUTDOOR RATED NETWORK CABLE	FOOT	228
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	LED SIGNAL FACE VISOR HEATER	EACH	29
	LAYER III (NETWORK) SWITCH	EACH	1
	TACTICS LICENSE EXPANSION	EACH	1
	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	CAMERA MOUNTING ASSEMBLY	EACH	1

* - 100% COST TO THE CITY OF ELMHURST

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IDOT TACTICS
FORMER EAGLE 2P

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

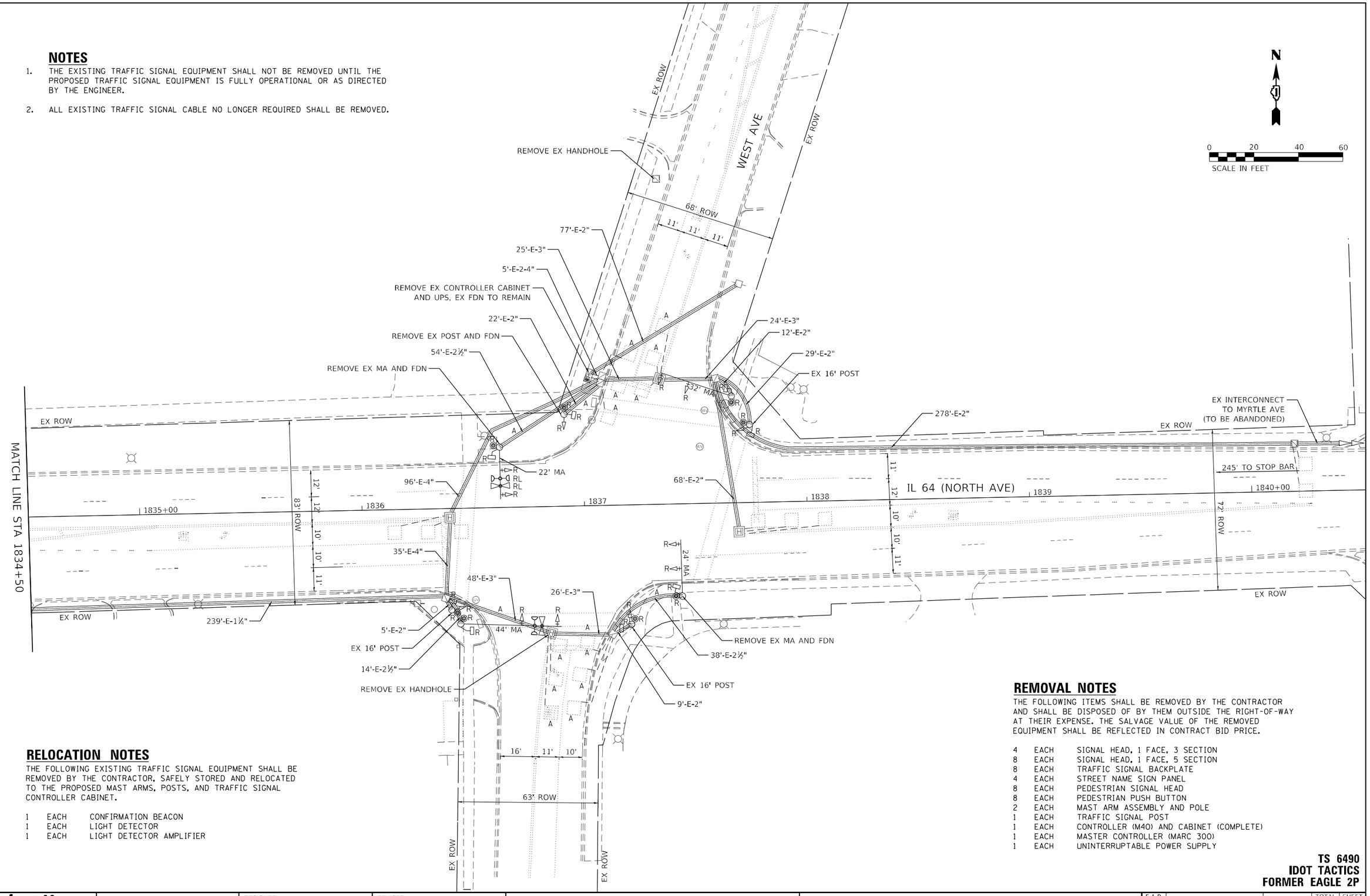
MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND IL 83 (KINGERY HWY)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	285
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

1	EACH	CONFIRMATION BEACON
1	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

4	EACH	SIGNAL HEAD, 1 FACE, 3 SECTION
8	EACH	SIGNAL HEAD, 1 FACE, 5 SECTION
8	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	STREET NAME SIGN PANEL
8	EACH	PEDESTRIAN SIGNAL HEAD
8	EACH	PEDESTRIAN PUSH BUTTON
2	EACH	MAST ARM ASSEMBLY AND POLE
1	EACH	TRAFFIC SIGNAL POST
1	EACH	CONTROLLER (M40) AND CABINET (COMPLETE)
1	EACH	MASTER CONTROLLER (MARC 300)
1	EACH	UNINTERRUPTABLE POWER SUPPLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND WEST AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	286

CONTRACT NO. 62N33

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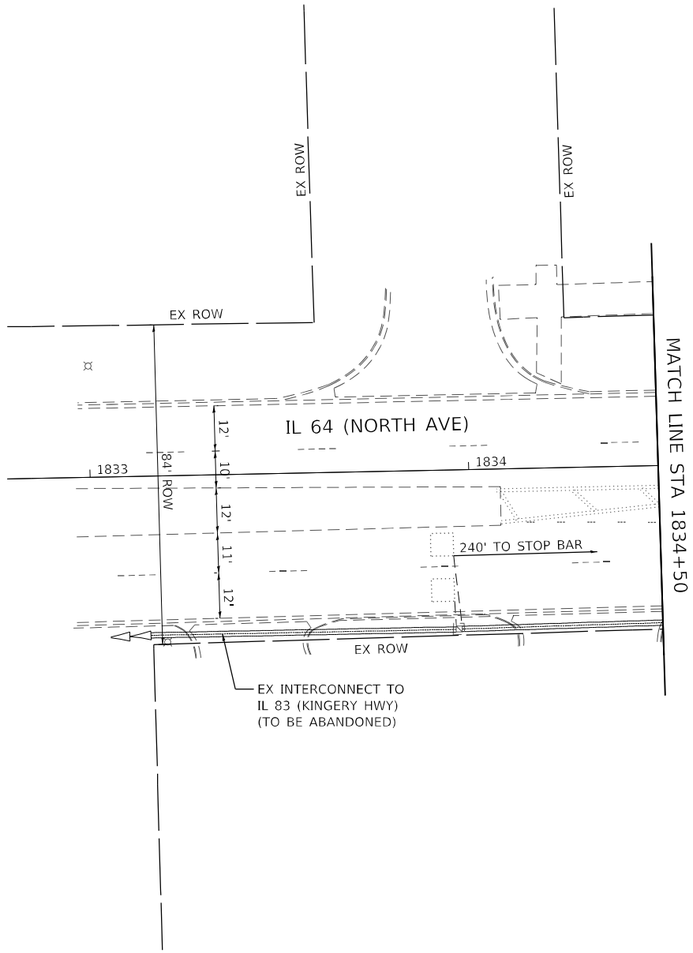

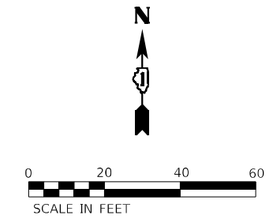

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND WEST AVE

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

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307	2020-263-SUR,SW&TS	DUPAGE	529	287
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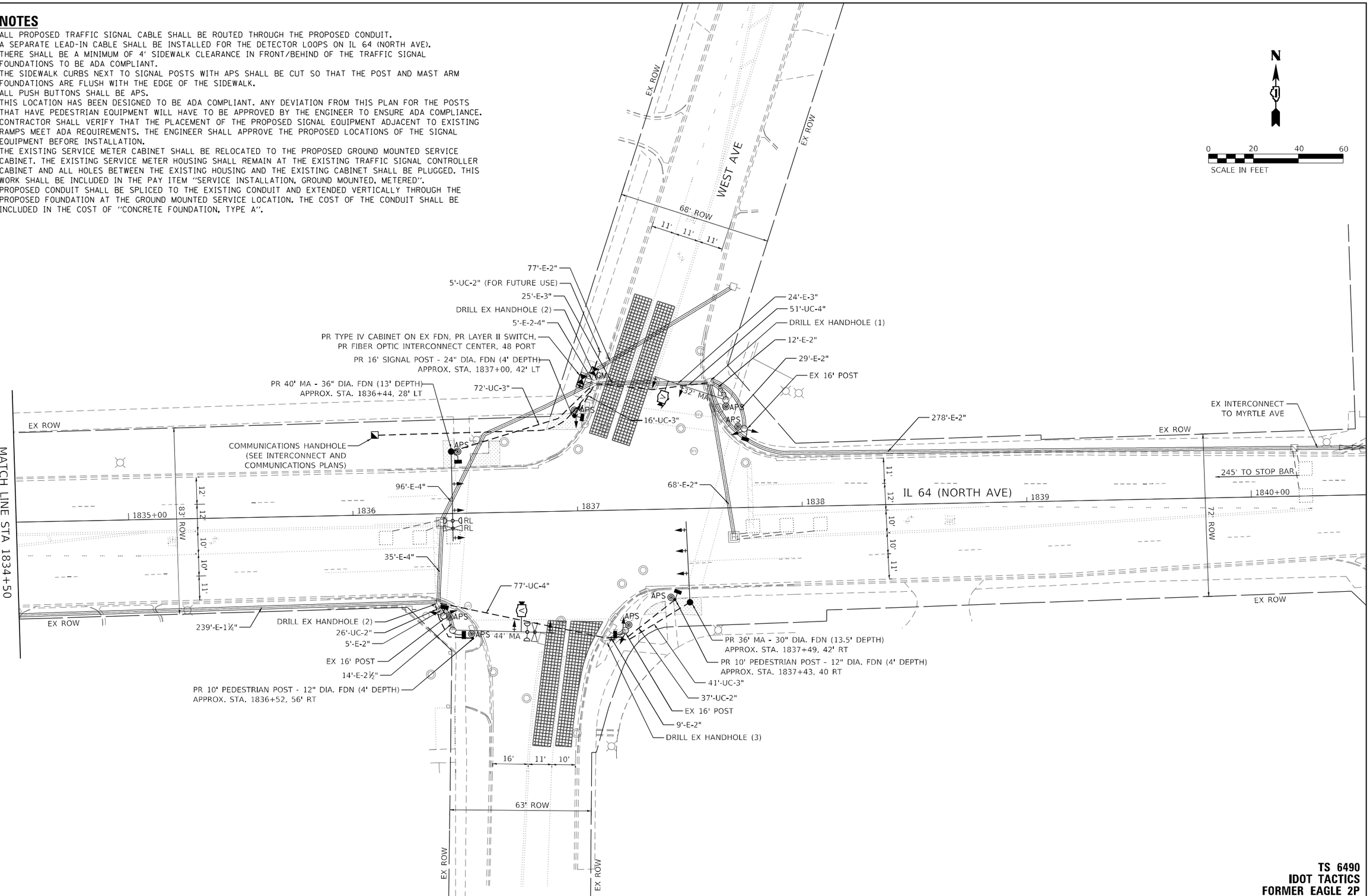
		ILLINOIS	FED. AID PROJECT	

NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS NEXT TO SIGNAL POSTS WITH APS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.
8. THE EXISTING SERVICE METER CABINET SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THE EXISTING SERVICE METER HOUSING SHALL REMAIN AT THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND ALL HOLES BETWEEN THE EXISTING HOUSING AND THE EXISTING CABINET SHALL BE PLUGGED. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "SERVICE INSTALLATION, GROUND MOUNTED, METERED".
9. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF "CONCRETE FOUNDATION, TYPE A".



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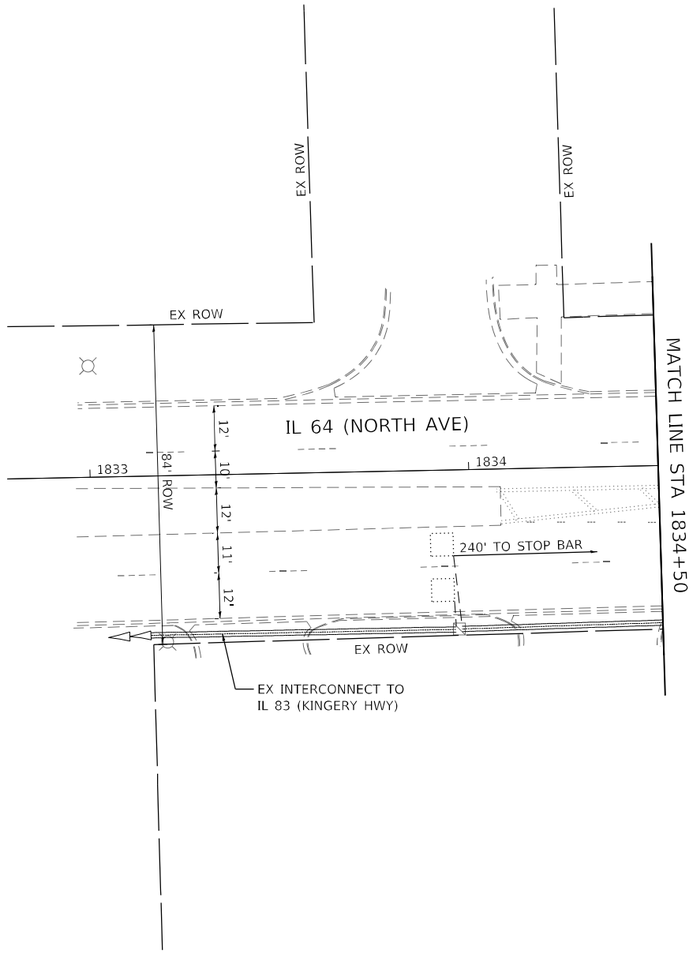
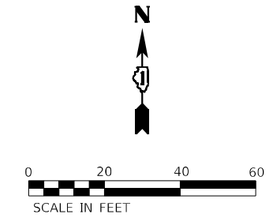
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND WEST AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	288
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		





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IDOT TACTICS
FORMER EAGLE 2P

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PLOT DATE =	DATE -	REVISED -

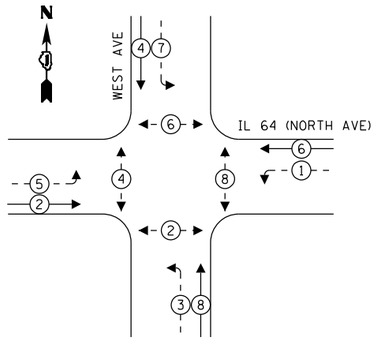
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND WEST AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	289
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

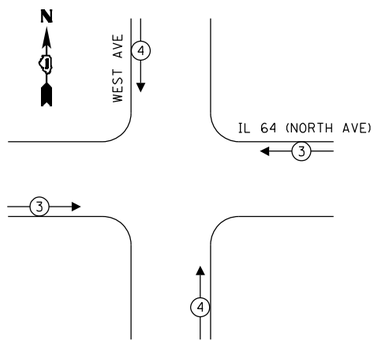
EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

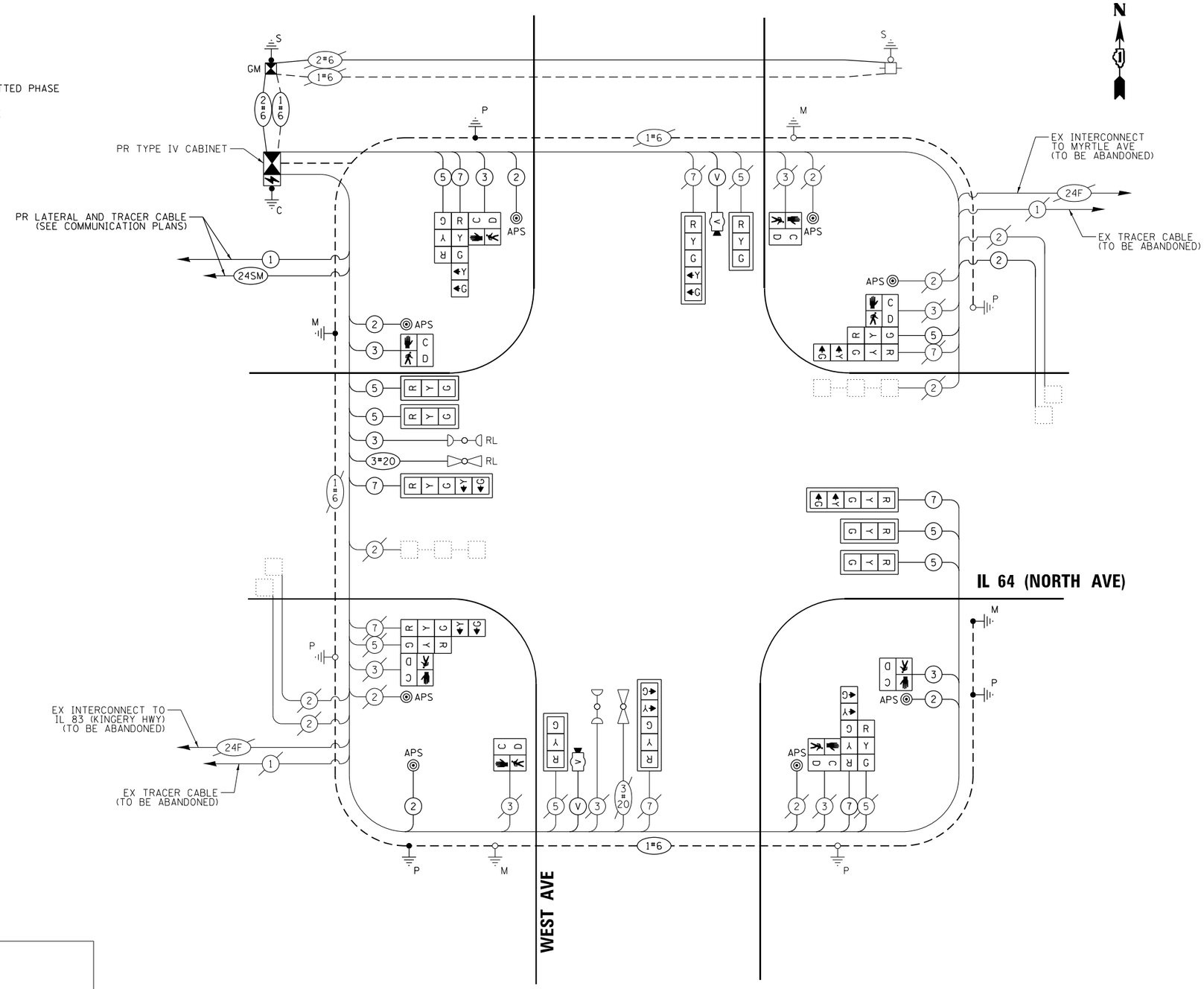


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	10	11	110
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH LAYER II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			584
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1189

ENERGY COSTS TO:
CITY OF ELMHURST
209 N YORK ST
ELMHURST, IL 60126

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 17790-40113



CABLE PLAN

(NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND WEST AVE

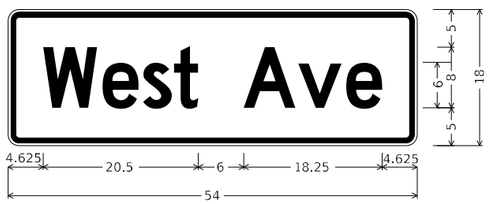
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	290
		CONTRACT NO. 62N33		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	13.5
	SIGN PANEL - TYPE 2	SQ FT	25
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	68
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	129
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	128
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	581
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	530
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1225
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	857
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	30
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	346
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	8
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
	DRILL EXISTING HANDHOLE	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
	INDUCTIVE LOOP DETECTOR	EACH	2
* *	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* *	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1716
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	2
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	163
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
	LED SIGNAL FACE VISOR HEATER	EACH	18
	TACTICS LICENSE EXPANSION	EACH	1
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
	UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

* - 100% COST TO THE CITY OF ELMHURST

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FORMER EAGLE 2P

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND WEST AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	291
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

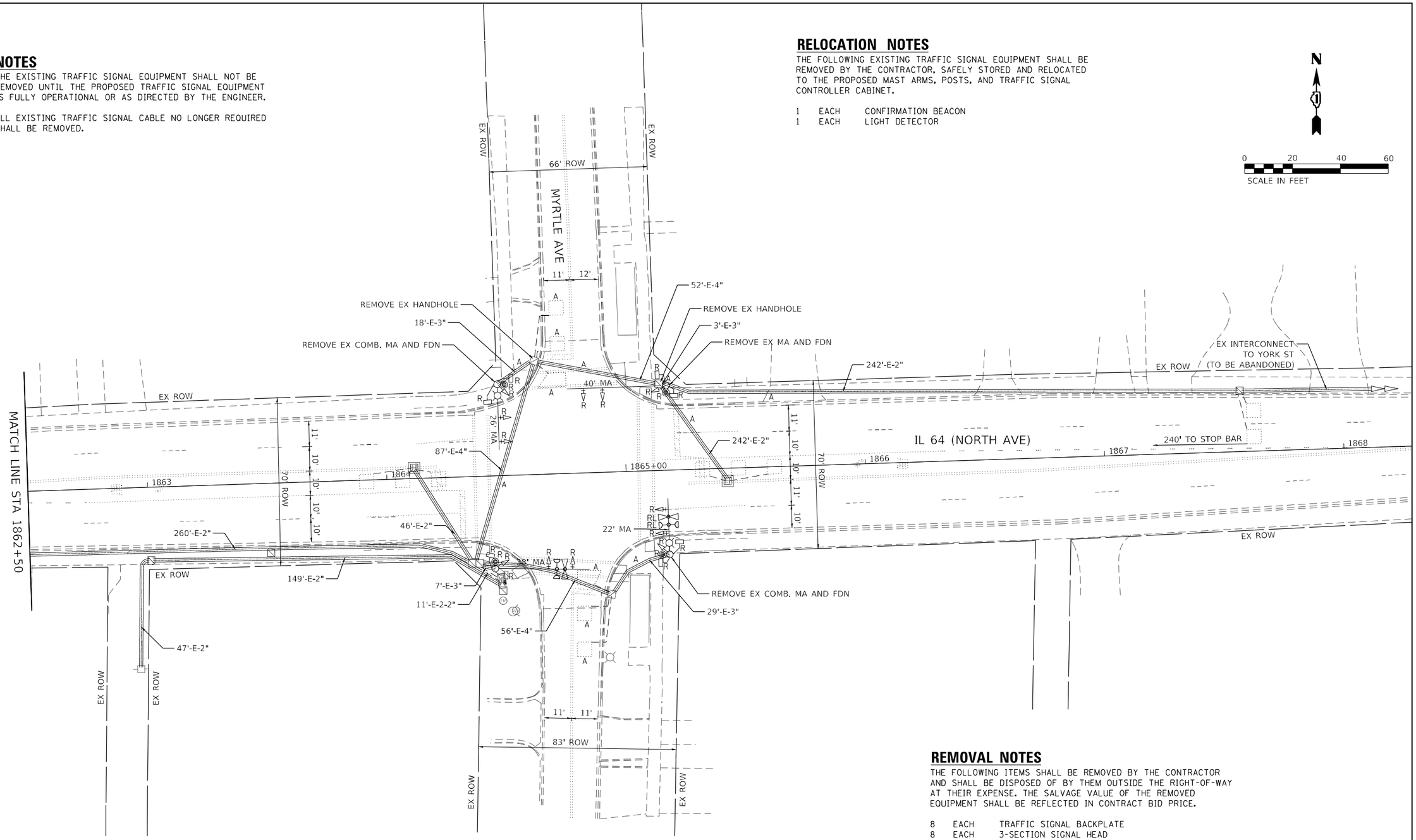
NOTES

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

RELOCATION NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

1	EACH	CONFIRMATION BEACON
1	EACH	LIGHT DETECTOR



REMOVAL NOTES

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN CONTRACT BID PRICE.

8	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
8	EACH	PEDESTRIAN SIGNAL HEAD
4	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	STREET NAME SIGN PANEL
2	EACH	COMBINATION MAST ARM ASSEMBLY AND POLE
1	EACH	MAST ARM ASSEMBLY AND POLE

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IDOT TACTICS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND MYRTLE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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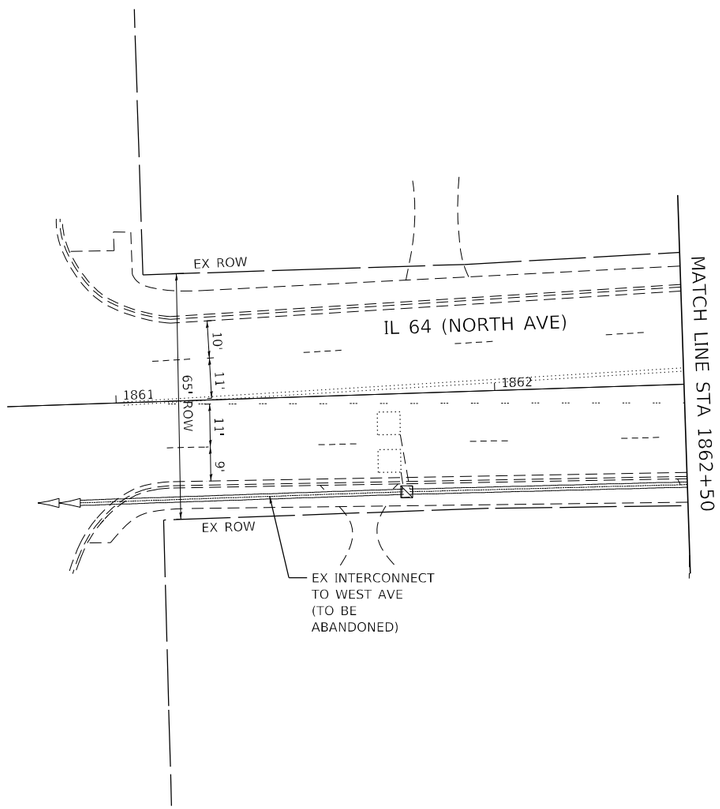
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	



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TS 6460
IDOT TACTICS
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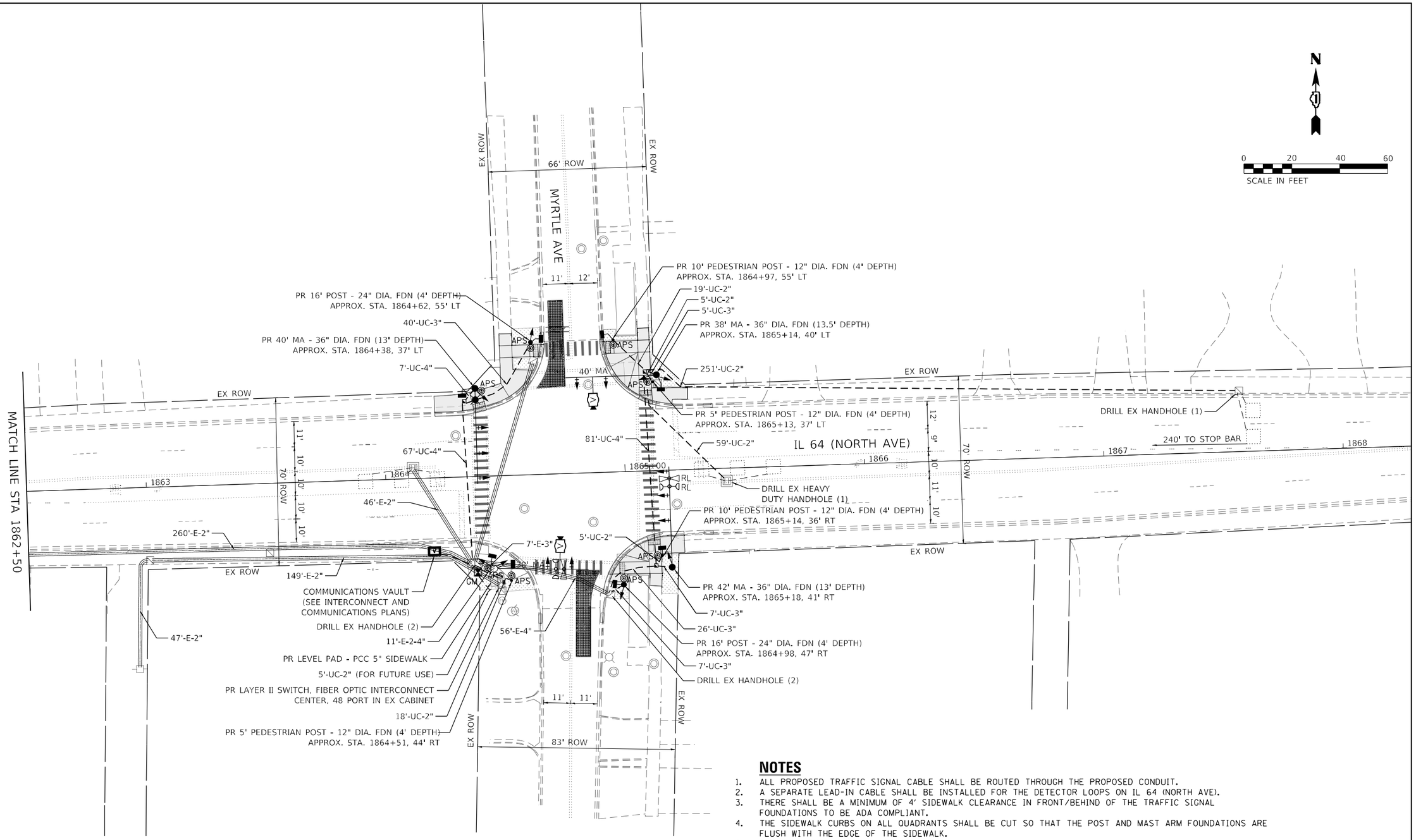
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
IL 64 (NORTH AVE) AND MYRTLE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	293
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



NOTES

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON IL 64 (NORTH AVE).
3. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
4. THE SIDEWALK CURBS ON ALL QUADRANTS SHALL BE CUT SO THAT THE POST AND MAST ARM FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
5. ALL PUSH BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

TS 6460
IDOT TACTICS
FORMER EAGLE 2P

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PLOT DATE =	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND MYRTLE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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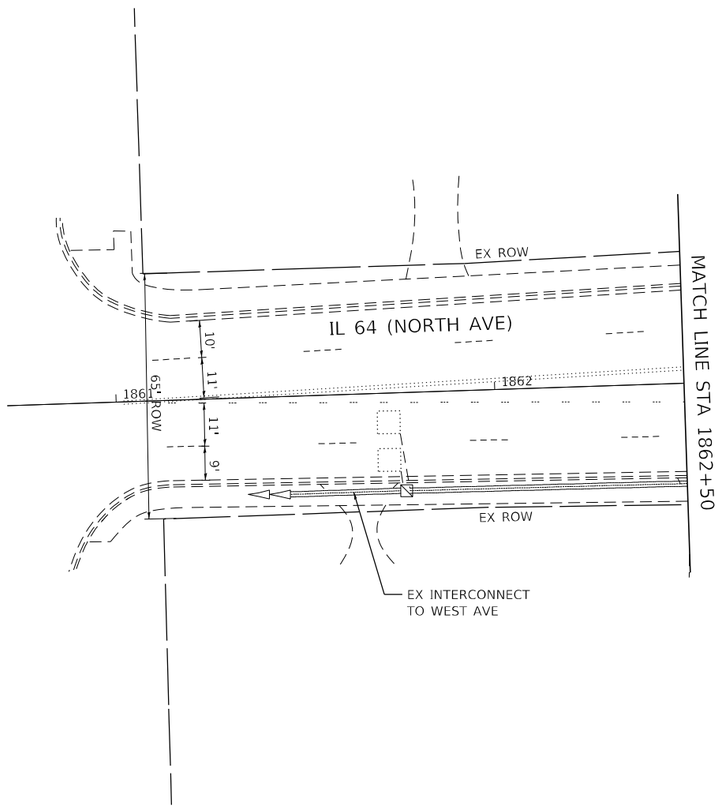
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



N

0 20 40 60
SCALE IN FEET

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IDOT TACTICS
FORMER EAGLE 2P

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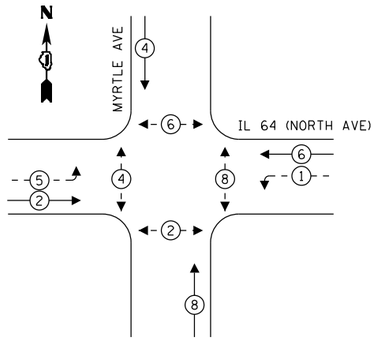
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL 64 (NORTH AVE) AND MYRTLE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	295
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
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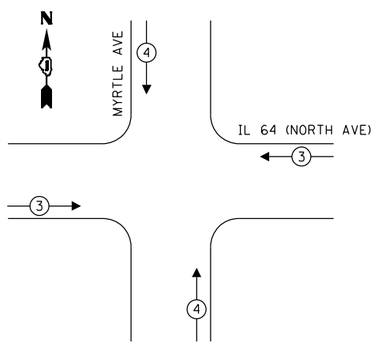
- OL OVERLAP

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

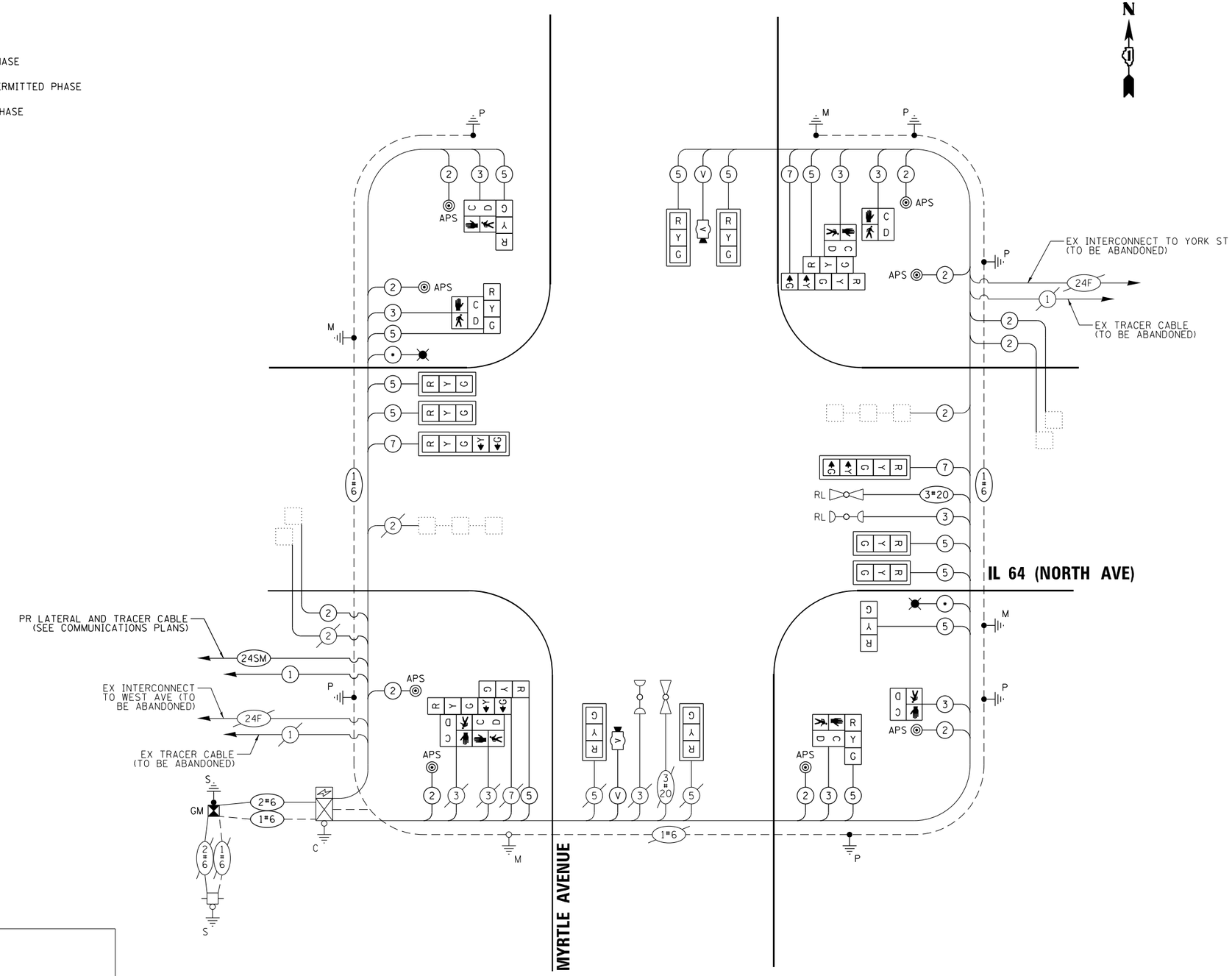


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	14	11	154
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH LAYER II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			576
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	2	240	480
TOTAL SERVICE WIRE SIZING			1661

ENERGY COSTS TO:
CITY OF ELMHURST
209 N YORK ST
ELMHURST, IL 60126

ENERGY SUPPLY: COMPANY: COMED
PHONE: (866) 639-3532
ACCOUNT NUMBER: 17790-40113



CABLE PLAN

(NOT TO SCALE)

TS 6460
IDOT TACTICS
FORMER EAGLE 2P

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 64 (NORTH AVE) AND MYRTLE AVE

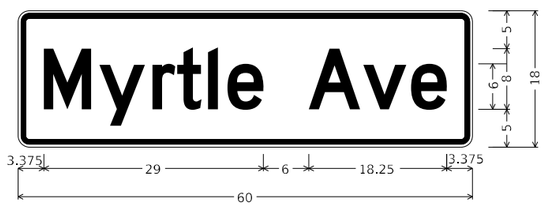
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	296
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.5	1	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	15
	SIGN PANEL - TYPE 2	SQ FT	25
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	360
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	85
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	155
	HANDHOLE	EACH	3
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1179
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1375
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2358
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	660
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	65
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	37
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	638
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
	DRILL EXISTING HANDHOLE	EACH	4
	DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
	INDUCTIVE LOOP DETECTOR	EACH	3
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3897
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	2
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	201
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TERMINATE FIBER IN CABINET	EACH	12
	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
	LED SIGNAL FACE VISOR HEATER	EACH	18
	TACTICS LICENSE EXPANSION	EACH	1
	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2

* - 100% COST TO THE CITY OF ELMHURST

TS 6460
IDOT TACTICS
FORMER EAGLE 2P

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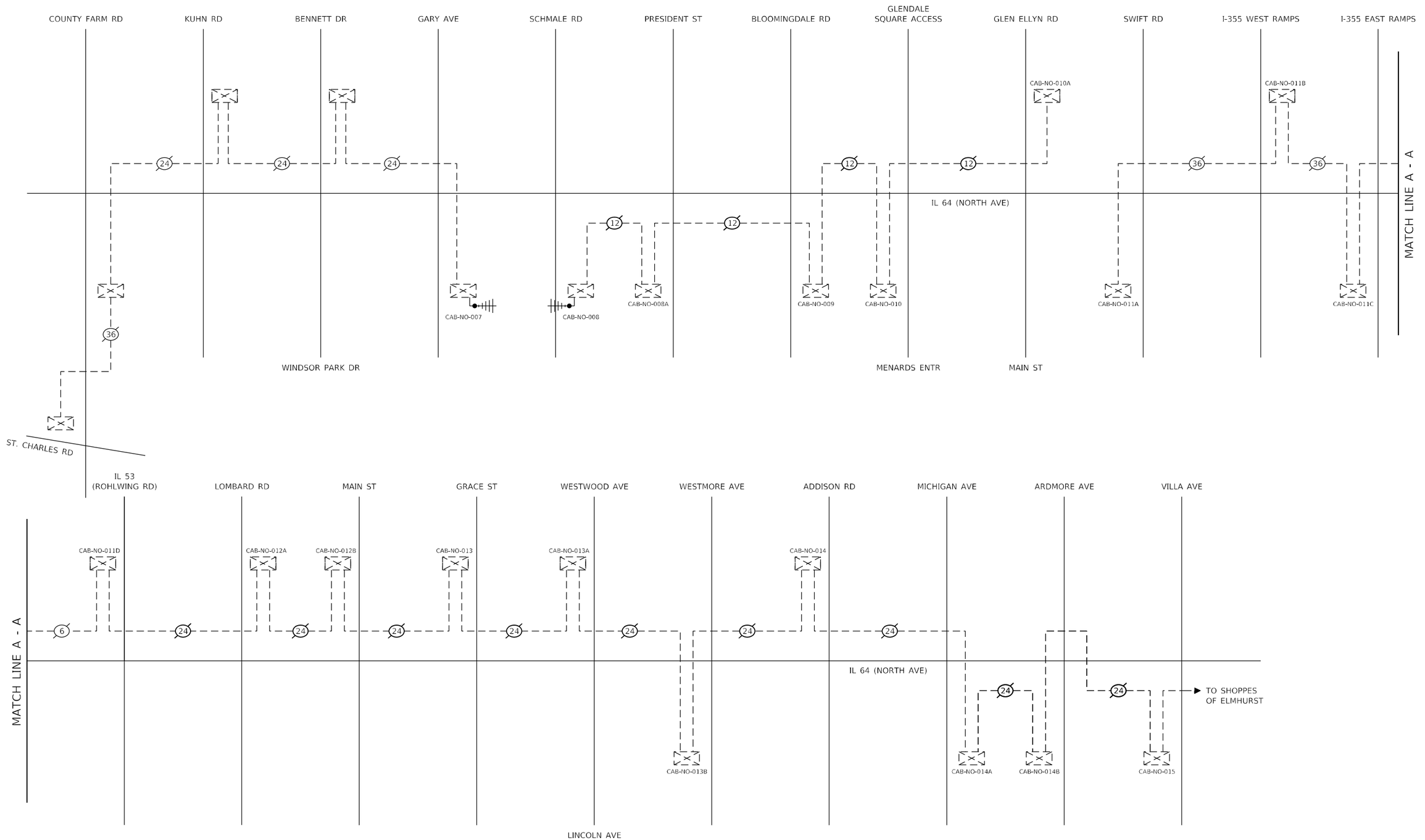
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL 64 (NORTH AVE) AND MYRTLE AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	297
		CONTRACT NO. 62N33		
	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR,SW&TS	DUPAGE	529	298
		CONTRACT NO. 62N33		
		ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	CC	CC
MASTER CONTROLLER	MC	MC
MASTER MASTER CONTROLLER	MMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	T	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND		
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P P	P P
SAMPLING (SYSTEM) DETECTOR	S S	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS IS	IS IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y C ◄Y ◄G P	R Y C ◄Y ◄G P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G ◄Y ◄G P RB	R Y G ◄Y ◄G P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR.SW&TS	DUPAGE	529	299
	TS-05	CONTRACT NO. 62N33		
		ILLINOIS FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

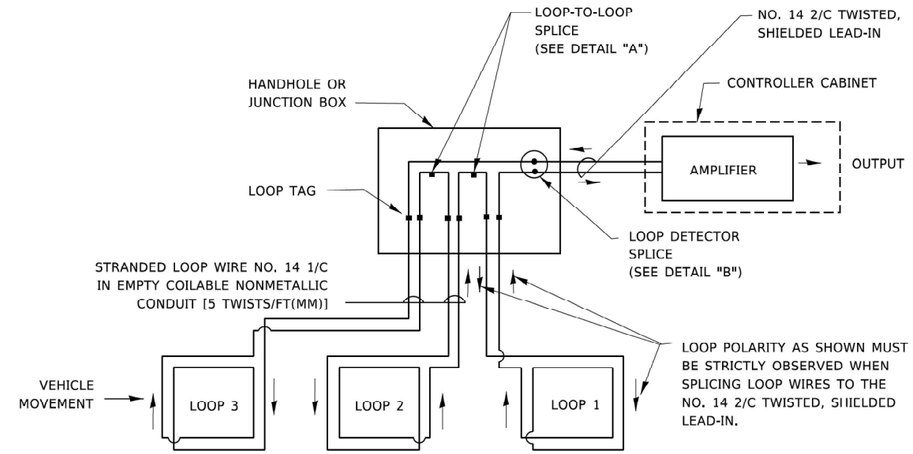
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

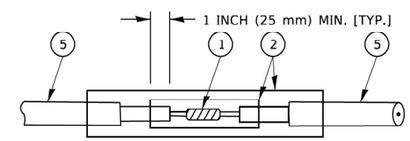
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

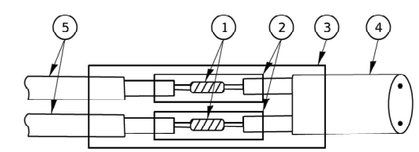


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



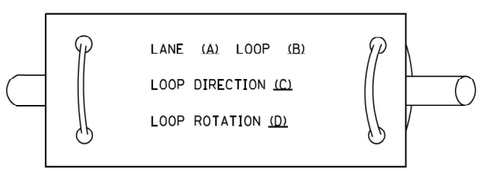
DETAIL "A"
LOOP-TO-LOOP SPLICE



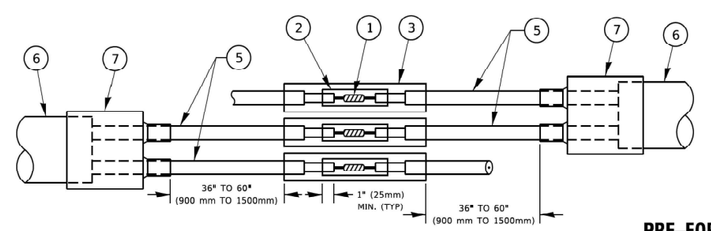
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

LOOP LEAD-IN CABLE TAG

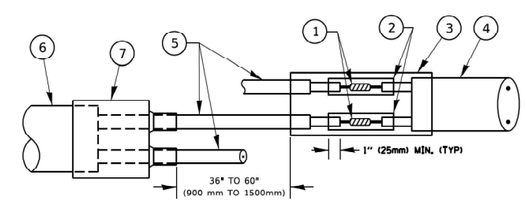


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

1. WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
2. WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
3. WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
4. NO. 14 2/C TWISTED, SHIELDED CABLE.
5. LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP
6. XL POLYOLEFIN 2 CONDUCTOR
7. BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL