

FOR INDEX OF SHEETS AND LIST OF HIGHWAY STANDARDS,
SEE SHEET NO. 2

03/11/2022 LETTING ITEM 098

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	18-00480-00-TL	MCHENRY	132	1
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO.		61H50	

THIS PROJECT IS LOCATED IN:
VILLAGE OF ALGONQUIN, VILLAGE OF HUNTLEY,
VILLAGE OF SPRING GROVE,
AND VILLAGE OF LAKE IN THE HILLS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
ALGONQUIN ROAD FROM HALIGUS ROAD TO
HARVEST GATE ROAD / TALAGA DRIVE
HANSON ROAD / HILLTOP DRIVE TO PYOTT ROAD
AND WILMOT ROAD AT MAIN STREET
TRAFFIC SIGNAL MODERNIZATION
SECTION: 18-00480-00-TL
PROJECT NO.: GMIC(624)
MCHENRY COUNTY
JOB NO.: C-91-197-19

TRAFFIC DATA

ALGONQUIN ROAD
POSTED SPEED 45 MPH
ADT: 26,700 (2017)

FRANK ROAD
POSTED SPEED 35 MPH
ADT: 6,400 (2017)

HALIGUS ROAD
POSTED SPEED 35 MPH
ADT: 9,400 (2017)

HANSON ROAD / HILLTOP DRIVE
POSTED SPEED 30 MPH / 25 MPH
ADT: 7,000 / 1,800 (2017)

LAKWOOD ROAD
POSTED SPEED 25 MPH / 45 MPH
ADT: 2,250 / 16,100 (2017)

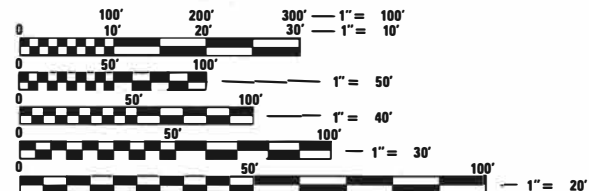
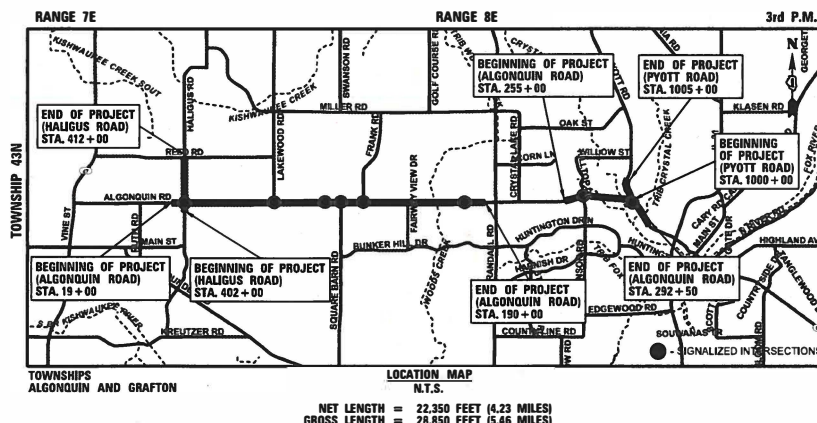
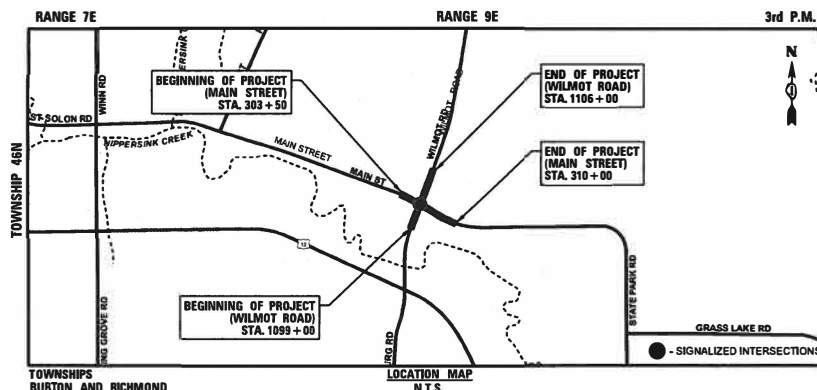
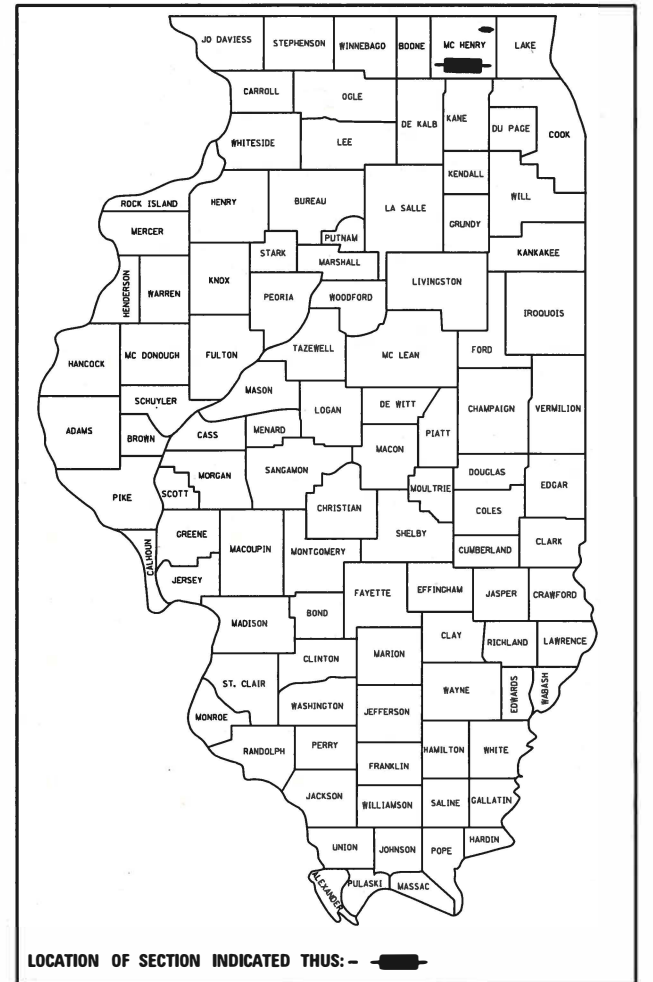
PYOTT ROAD
POSTED SPEED 45 MPH
ADT: 13,100 (2017)

SQUARE BARN ROAD
POSTED SPEED 40 MPH
ADT: 11,200 (2017)

MAIN STREET
POSTED SPEED LIMIT 45 MPH / 50 MPH
ADT: 8,325 (2017)

HARVEST GATE ROAD / TALAGA DRIVE
POSTED SPEED 25 MPH
ADT: 25,600 (2017)

WILMOT ROAD
POSTED SPEED LIMIT 40 MPH / 45 MPH
ADT: 4,950 (2017)



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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED Nov 18 20 21
Joe P. Kowalski Jr.
COUNTY OF MCHENRY, COUNTY ENGINEER

PASSED Jan 4 20 22
Chris Redden
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW January 5 20 22
Jose P. Rosales
REGIONAL 1 ENGINEER

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OF THE STATE OF ILLINOIS**

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAUMBURG, IL.

PROJECT MANAGER:
THOMAS F. SZABO

CONTRACT NO. 61H50

CBB CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500



NOVEMBER 29, 2021
Stephen N. Sugg
STEPHEN N. SUGG
ILLINOIS REGISTRATION No. 062-04417
EXPIRATION DATE: 02/28/22



NOVEMBER 29, 2021
Anthony J. DeRicco
ANTHONY J. DERICCO
ILLINOIS REGISTRATION No. 062-057484
EXPIRATION DATE: 02/28/22



NOVEMBER 29, 2021
George M. Ziegler
GEORGE M. ZIEGLER
ILLINOIS REGISTRATION No. 062-045853
EXPIRATION DATE: 02/28/22
CBBEL PROJECT NO. 180176 DATE: 11-29-2021

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STD. No.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
780001-05	TYPICAL PAVEMENT MARKINGS
814001-03	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-10	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-07	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-11	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

LIST OF DISTRICT ONE STANDARDS

STD. No.	DESCRIPTION
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BE-240	COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED	ADD. FILE NAME
DATE	BY	SURVEYED	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D	
DATE	BY	SURVEYED	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D	

SUMMARY OF QUANTITIES

SPECIAL NOTES	SP	CODE NO.	ITEM	UNIT	TOTAL	Algonquin Road @ Haligus Road	Algonquin Road @ Lakewood Road	Algonquin Road @ Square Barn Road	Algonquin Road @ Frank Road	Algonquin Road @ Harvest Gate Road / Talaga Drive	Algonquin Road @ Hilltop Drive / Hanson Road	Algonquin Road @ Pyott Road	Algonquin Road Interconnect	Wilmot Road @ Main Street
Construction Code 0021														
****		20200100	EARTH EXCAVATION	CU YD	52	13	3	30		6				
		31101180	SUBBASE GRANULAR MATERIAL, TYPE B 2"	SQ YD	577	243	60	143		131				
		31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	368	153	72	55		88				
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5194	2187	539	1283	6	1179				
	*	42400800	DETECTABLE WARNINGS	SQ FT	408	141	65	88		114				
		44000600	SIDEWALK REMOVAL	SQ FT	4262	1970	523	547	6	1216				
		60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	4	1		2		1				
	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	20	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.24
	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12
	*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12
	*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12
	*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12
		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.36
		67100100	MOBILIZATION	L SUM	1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12
	*	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12
	*	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12
		70107025	CHANGEABLE MESSAGE SIGN	CAL DA	252	28	28	28	28	28	28	28	28	56
	*	72000100	SIGN PANEL - TYPE 1	SQ FT	420	60	60	30	60	60	60	30		60
****		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2212	690	396	486		640				
****		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	3011	958	541	656		856				

**** - SPECIALTY ITEMS

DATE	BY	REVIEWED	DATE
DATE	BY	REVIEWED	DATE
DATE	BY	REVIEWED	DATE

FILE NAME = 084_SUM1-180176

USER NAME = pandrews
 PLOT SCALE = 2"
 PLOT DATE = 1/12/2022

DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: 1" = 2' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	4
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61H50		

SUMMARY OF QUANTITIES

SPECIAL NOTES	SP	CODE NO.	ITEM	UNIT	TOTAL	Algonquin Road @ Haligus Road	Algonquin Road @ Lakewood Road	Algonquin Road @ Square Barn Road	Algonquin Road @ Frank Road	Algonquin Road @ Harvest Gate Road / Talaga Drive	Algonquin Road @ Hilltop Drive / Hanson Road	Algonquin Road @ Pyott Road	Algonquin Road Interconnect	Wilnot Road @ Main Street
Construction Code 0021														
	*	87703010	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	2	1	1							
	*	87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	3		1		1	1				
	*	87704450	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 22 FT.	EACH	1							1		
	*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	120	28	8	16	16	24	20	4		4
	*	87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4		4							
	*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	375	45	30	45	45	45	60	45		60
	*	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	125	25	50		25	25				
		87900100	DRILL EXISTING FOUNDATION	EACH	3		1	1						1
		87900200	DRILL EXISTING HANDHOLE	EACH	51	9	8	5	4	10	4	3	4	4
	*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	54	6	9	6	6	6	12	5		4
	*	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	38	4	4	7	4	4	6	5		4
	*	88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	22	4	2	1	4	4		3		4
	*	88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	24	4	2	1	4	4		5		4
	*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6	2	3				1			
	*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6	2	3				1			
	*	88055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1							1		
	*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	30	8	4	6	4	8				
		88200100	TRAFFIC SIGNAL BACKPLATE	EACH	149	22	23	14	18	18	20	18		16
	*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	7	1	1	1		1	1	1		1
	*	89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	5			1		1	1	1		1

** - NOMINAL QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER

DATE	BY	SURVEYED	PLOTTED	ALIGNED	CHECKED	RECORDED
DATE	BY	PLAN	NOTE BOOK	NO.	NO.	NO.
DATE	BY	PROFILE	NOTE BOOK	NO.	NO.	NO.

SUMMARY OF QUANTITIES

SPECIAL NOTES	SP	CODE NO.	ITEM	UNIT	TOTAL	Algonquin Road @ Haligus Road	Algonquin Road @ Lakewood Road	Algonquin Road @ Square Barn Road	Algonquin Road @ Frank Road	Algonquin Road @ Harvest Gate Road / Talaga Drive	Algonquin Road @ Hilltop Drive / Hanson Road	Algonquin Road @ Pyott Road	Algonquin Road Interconnect	Wilmet Road @ Main Street
Construction Code 0021														
*		89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	20	2	3	2	2	2	3	4		2
*		89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	8	1	1	1	1	1	1	1		1
		89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	38920	7778	7573.5	3924.5		6181	4480	5134.5		3848.5
*		89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8	1	1	1	1	1	1	1		1
*		89502376	REBUILD EXISTING HANDHOLE	EACH	2	1	1							
		89502380	REMOVE EXISTING HANDHOLE	EACH	2	1		1						
		89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	34	5	6	4	4	4	4	3		4
*		X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	2	1	1							
*		X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	3157	346	742	311.5	320	432	456.5	252		297
*		X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	3600	500	500	300	500	300	500	500		500
*		X0325815	REMOVE EXISTING CABLE	FOOT	2770	450	755	465	440	660				
*		X0325922	CELLULAR MODEM	EACH	1									1
*		X0326104	RELOCATE RADAR DETECTOR SYSTEM	EACH	2							1		1
*		X0327485	MAST ARM, STREET LIGHTING, 15'	EACH	35	3	6	4		6	4	7		5
*		X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	31	4	4	3	4	4	4	4		4
*		X1200139	REMOVAL OF LIGHTING LUMINAIRE, SALVAGE	EACH	11						4	3		4
*		X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	1411	234	245	101.5	114		193	321.5		202
*		X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	5			1		1	1	1		1
*		X1400156	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, FAR BACK	EACH	1									1
*		X1400238	LUMINAIRE, LED, SPECIAL	EACH	4				4					

PLAN
 DRAWING NO. _____
 CHECKED BY _____
 DATE _____

PROFILE
 DRAWING NO. _____
 CHECKED BY _____
 DATE _____

SUMMARY OF QUANTITIES

SPECIAL NOTES	SP	CODE NO.	ITEM	UNIT	TOTAL	Algonquin Road @ Haligus Road	Algonquin Road @ Lakewood Road	Algonquin Road @ Square Barn Road	Algonquin Road @ Frank Road	Algonquin Road @ Harvest Gate Road / Talaga Drive	Algonquin Road @ Hilltop Drive / Hanson Road	Algonquin Road @ Pyott Road	Algonquin Road Interconnect	Wilmot Road @ Main Street
Construction Code 0021														
*		XX005723	VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	8	1	1	1	1	1	1	1		1
*		XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	7	1	1	1	1		1	1		1
*		XX008068	LUMINAIRE INSTALLATION, TYPE 1	EACH	5									5
*		XX008069	LUMINAIRE INSTALLATION, TYPE 2	EACH	30	3	6	4		6	4	7		
*		XX008454	ETHERNET SWITCH, TYPE 2	EACH	7	1	1	1	1	1	1	1		
*		XX008608	CABLE, SPECIAL	FOOT	1370						410	425		535
*		XX009148	LUMINAIRE INSTALLATION, TYPE 3	EACH	4									4
*		XX009266	LUMINAIRE INSTALLATION, TYPE 4	EACH	10						4	6		
		Z0013798	CONSTRUCTION LAYOUT	L SUM	1									
*		Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	771	102.8	102.8	102.8	77.1	102.8	102.8	77.1		102.8
*		Z0033024	MAINTAIN EXISTING LIGHTING SYSTEM	L SUM	1	0.125	0.125	0.125	0.125	0.125	0.125	0.125		0.125
*		Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	5								5	
*		Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	7	1	1	1		1	1	1		1
***	*	Z0076600	TRAINEES	HOUR	1000									
***	*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000									

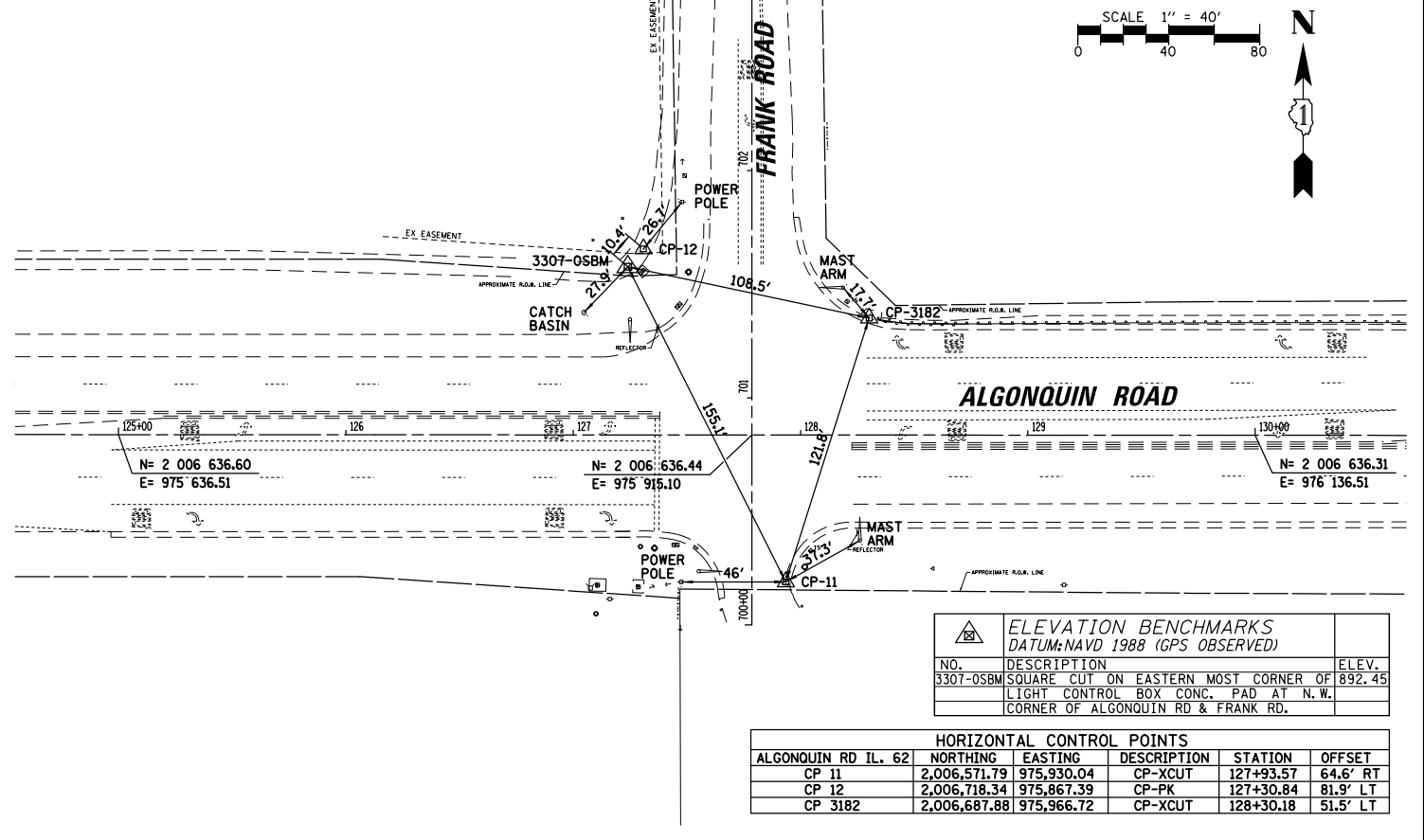
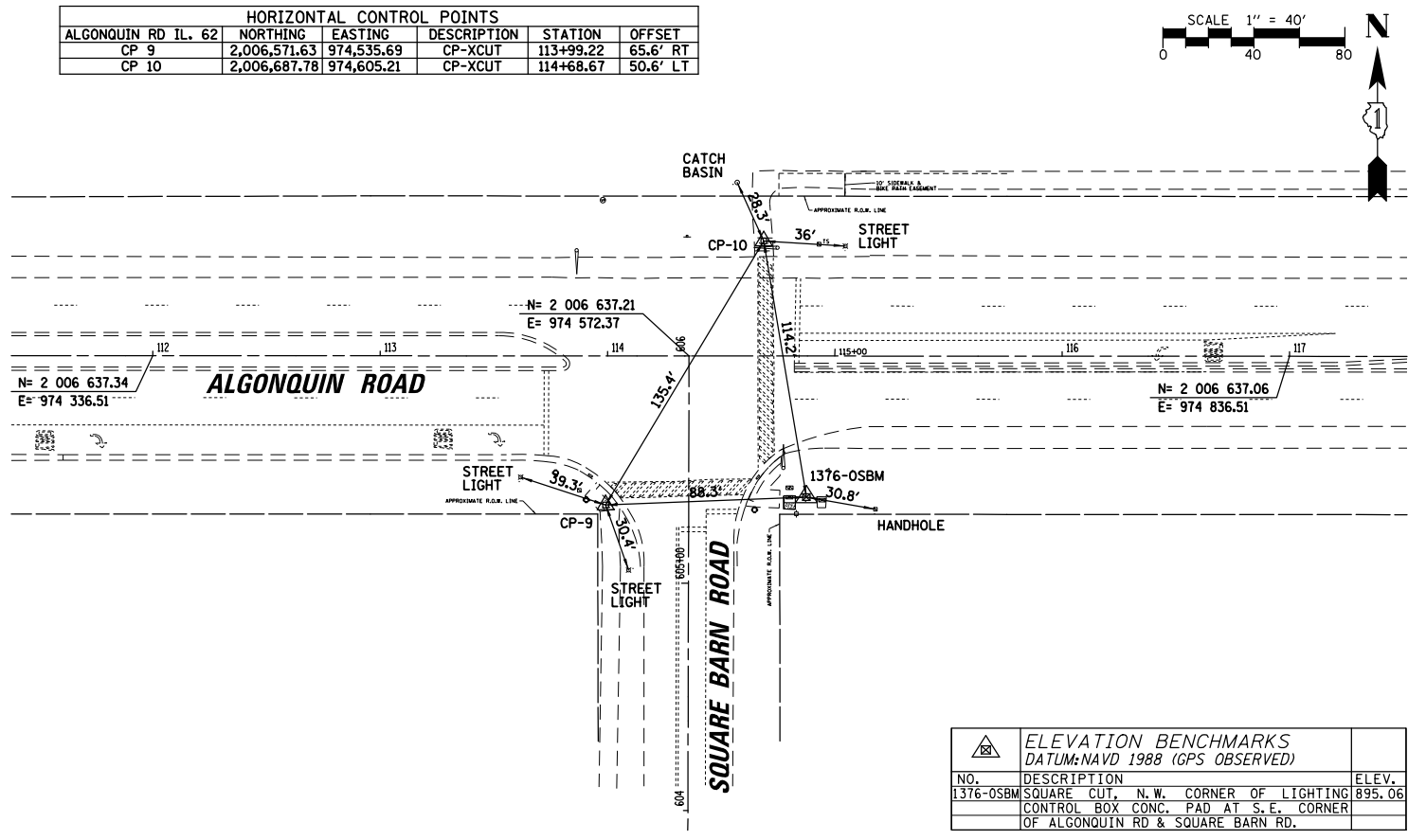
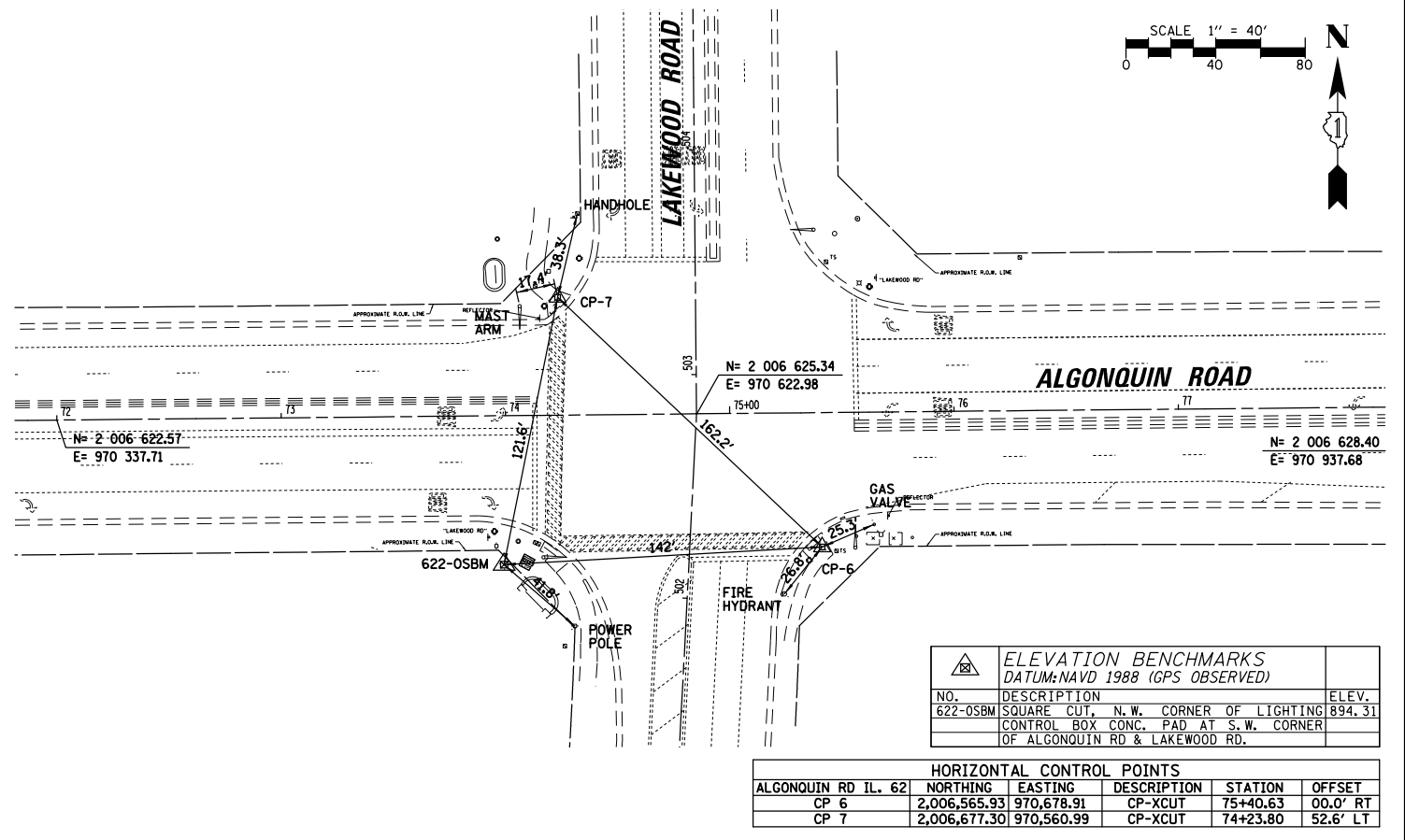
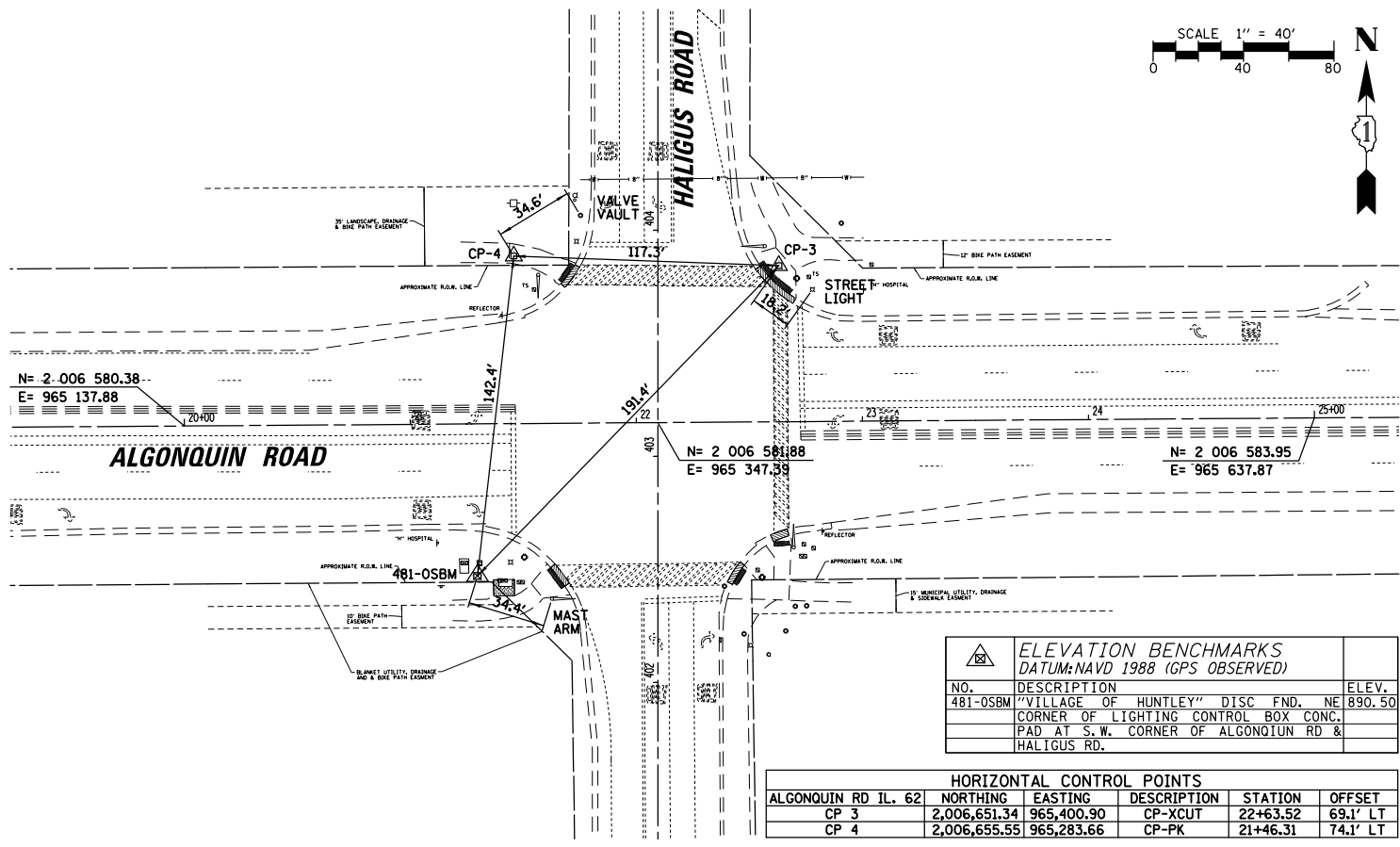
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DATE	BY	SURVEYED	PLANNED
		BY	BY
		DATE	DATE
DATE	BY	PLANNED	PLANNED
		BY	BY
		DATE	DATE

DATE: _____ BY: _____

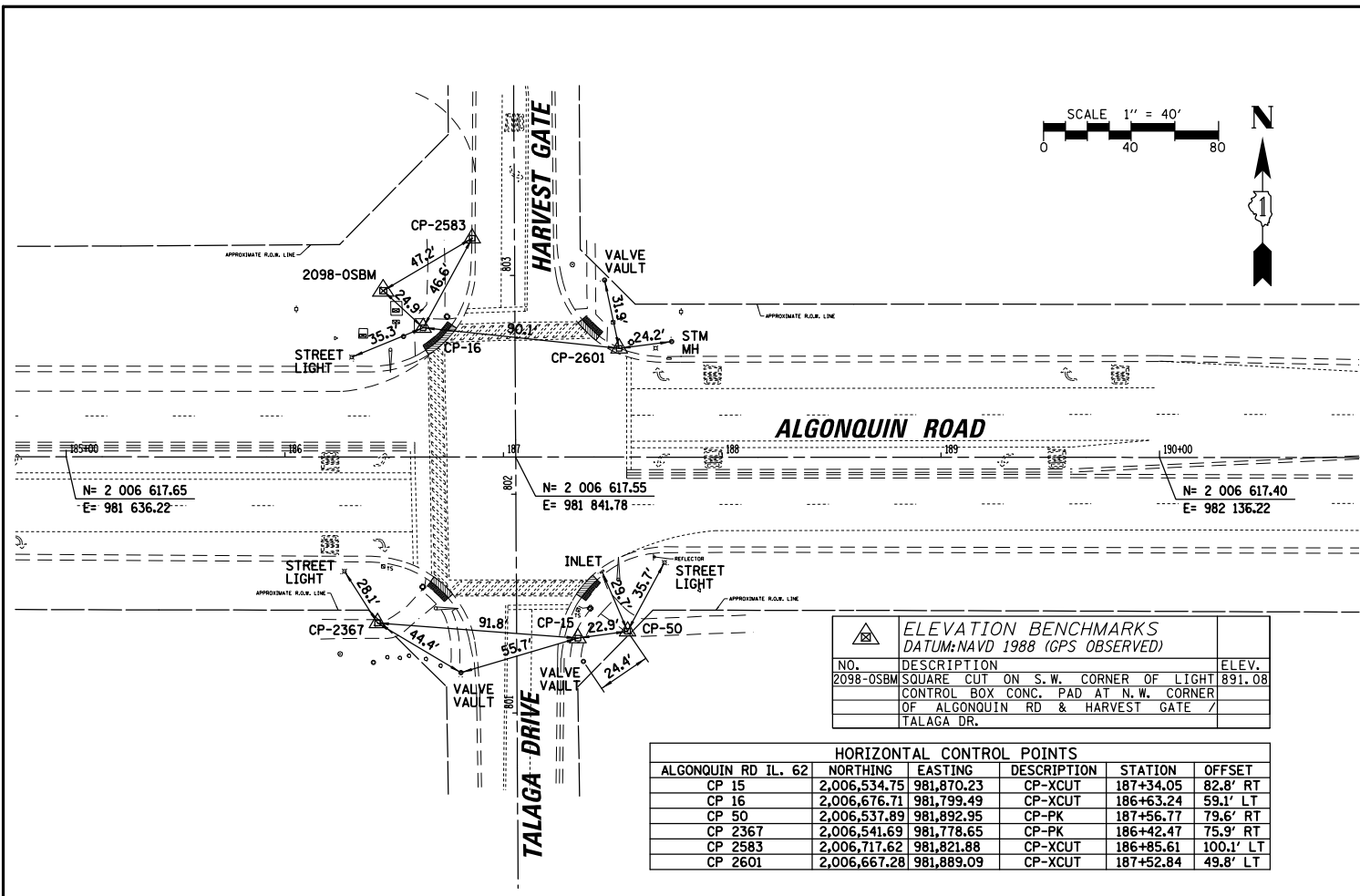
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PROFILE SURVEYED _____ GRADES CHECKED _____
 NOTE BOOK NO. _____ B.M. NOTED _____
 NO. _____ STRUCTURE NOTATIONS OK/NO



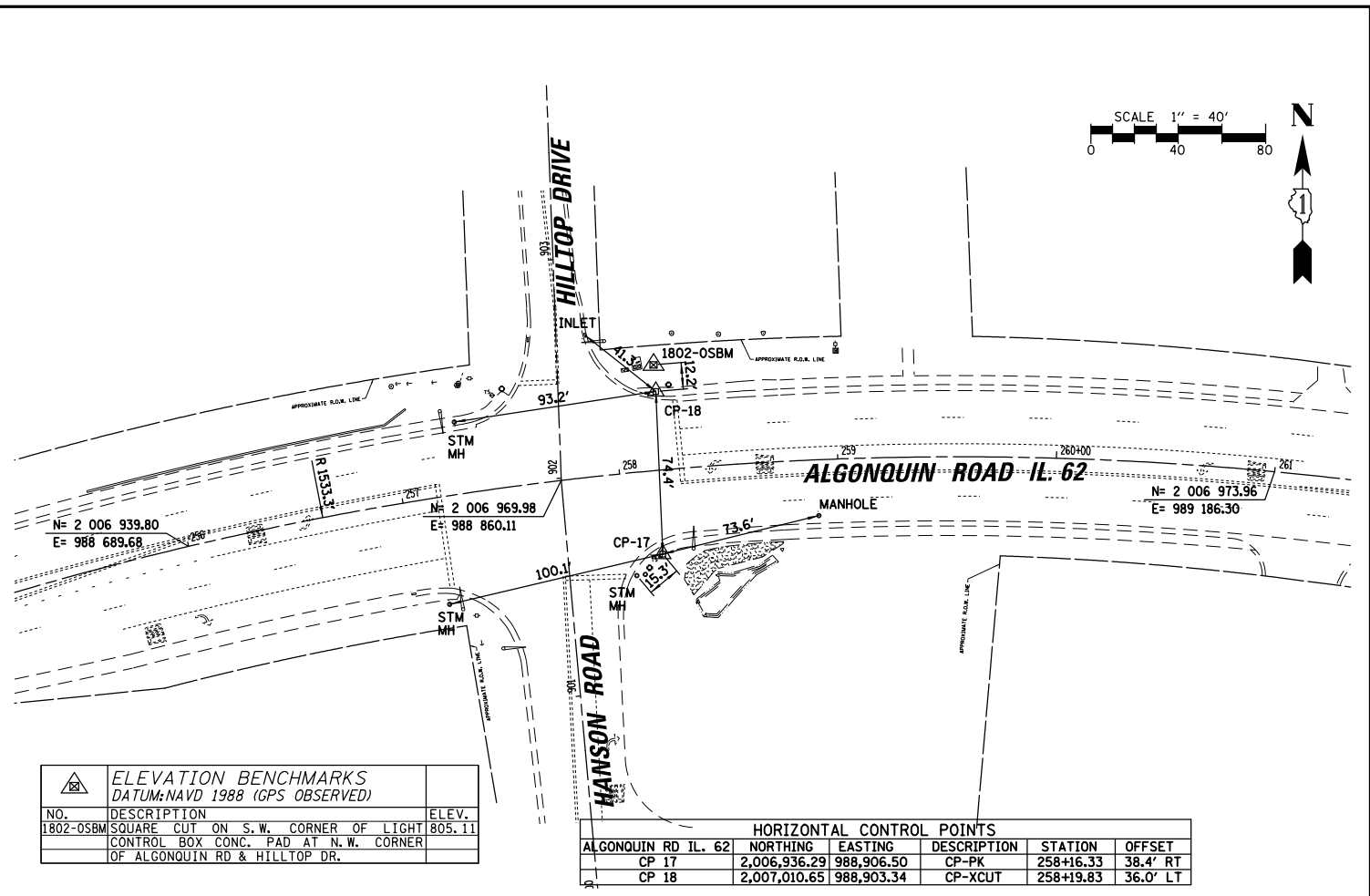
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 BY: _____
 SURVEYED _____
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 NOTE BOOK NO. _____



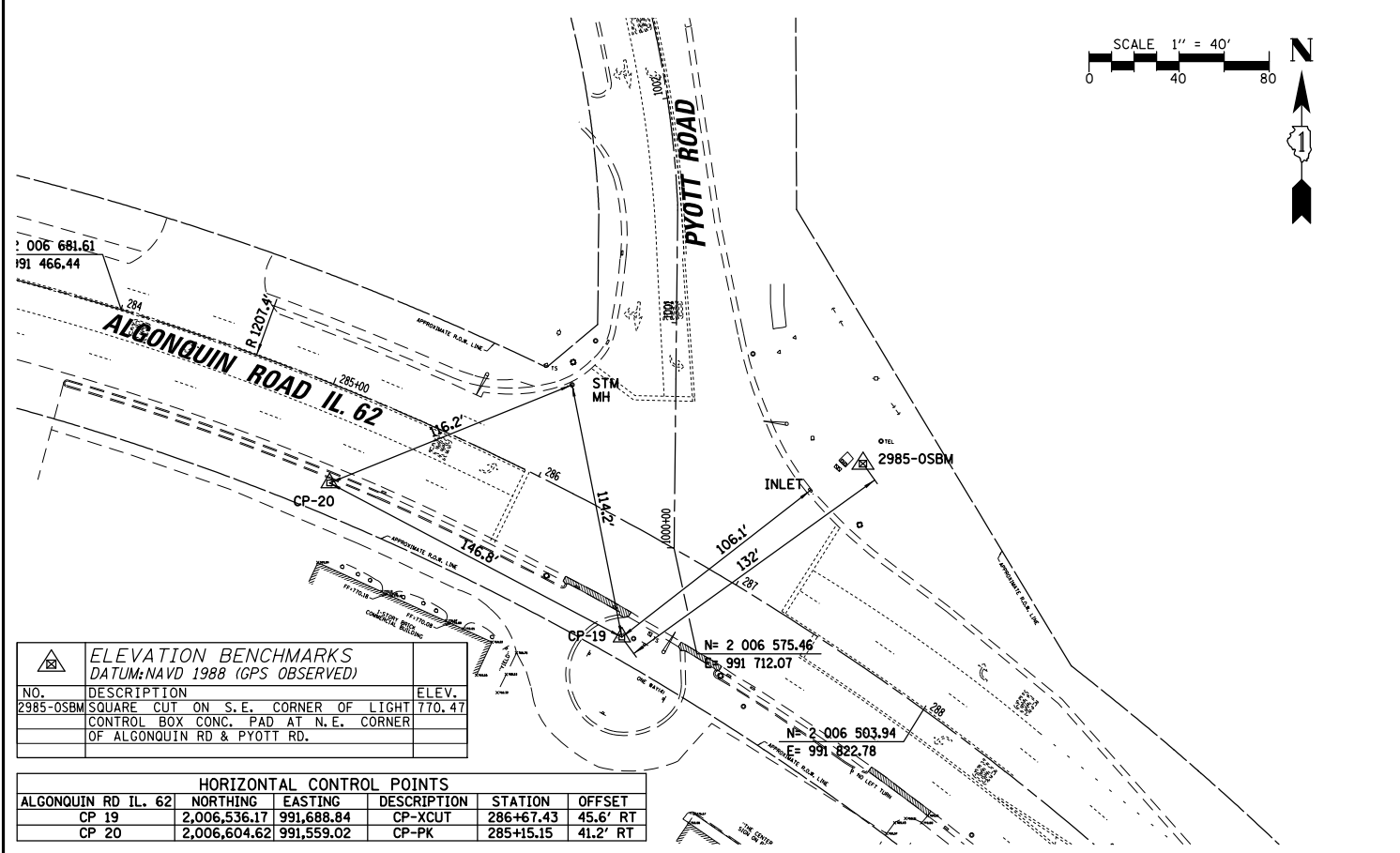
ELEVATION BENCHMARKS DATUM: NAVD 1988 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
2098-OSBM	SQUARE CUT ON S.W. CORNER OF LIGHT CONTROL BOX CONC. PAD AT N.W. CORNER OF ALGONQUIN RD & HARVEST GATE / TALAGA DR.	891.08

HORIZONTAL CONTROL POINTS					
ALGONQUIN RD IL. 62	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
CP 15	2,006,534.75	981,870.23	CP-XCUT	187+34.05	82.8' RT
CP 16	2,006,676.71	981,799.49	CP-XCUT	186+63.24	59.1' LT
CP 50	2,006,537.89	981,892.95	CP-PK	187+56.77	79.6' RT
CP 2367	2,006,541.69	981,778.65	CP-PK	186+42.47	75.9' RT
CP 2583	2,006,717.62	981,821.88	CP-XCUT	186+85.61	100.1' LT
CP 2601	2,006,667.28	981,889.09	CP-XCUT	187+52.84	49.8' LT



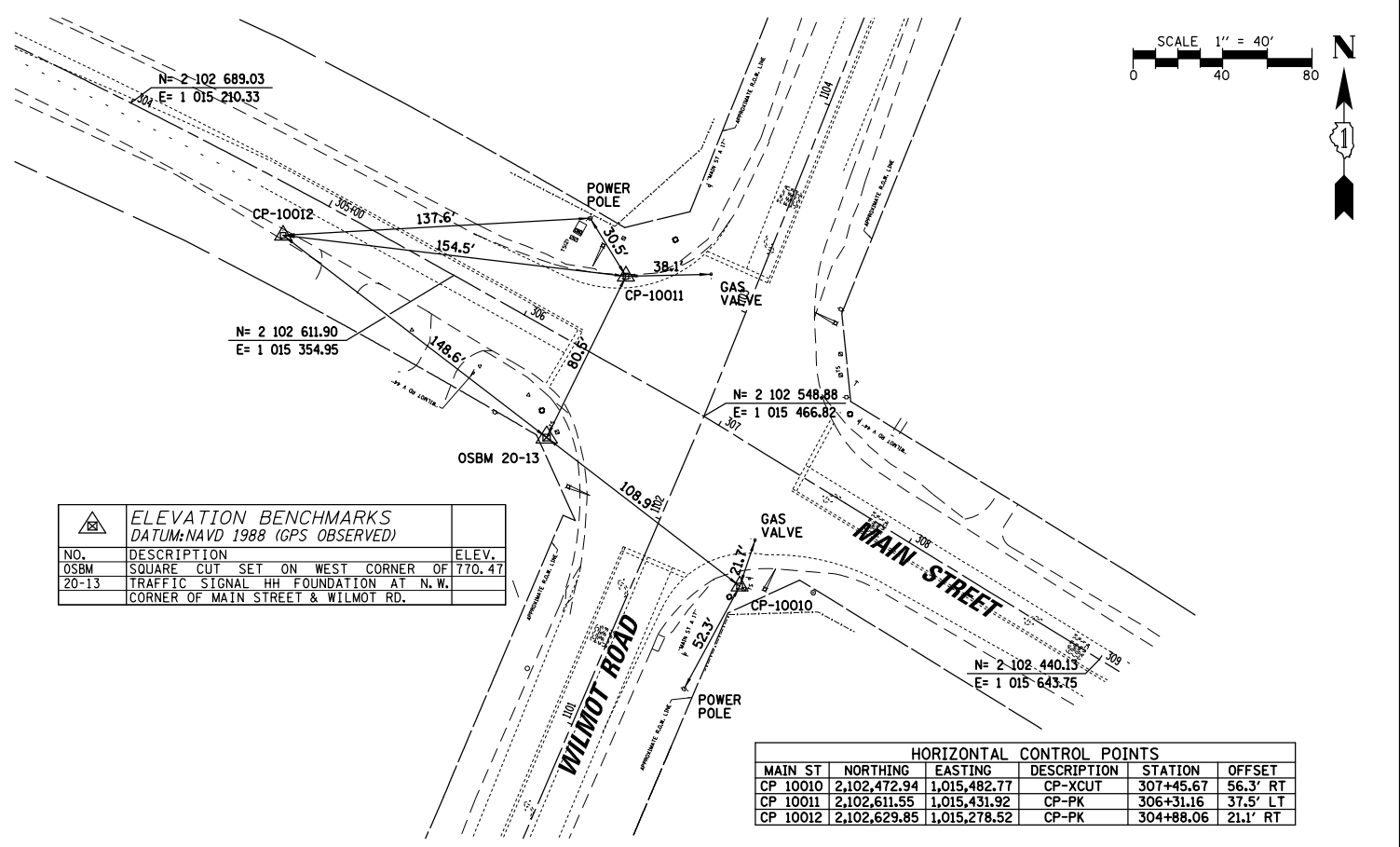
ELEVATION BENCHMARKS DATUM: NAVD 1988 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
1802-OSBM	SQUARE CUT ON S.W. CORNER OF LIGHT CONTROL BOX CONC. PAD AT N.W. CORNER OF ALGONQUIN RD & HILLTOP DR.	805.11

HORIZONTAL CONTROL POINTS					
ALGONQUIN RD IL. 62	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
CP 17	2,006,936.29	988,906.50	CP-PK	258+16.33	38.4' RT
CP 18	2,007,010.65	988,903.34	CP-XCUT	258+19.83	36.0' LT



ELEVATION BENCHMARKS DATUM: NAVD 1988 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
2985-OSBM	SQUARE CUT ON S.E. CORNER OF LIGHT CONTROL BOX CONC. PAD AT N.E. CORNER OF ALGONQUIN RD & PYOTT RD.	770.47

HORIZONTAL CONTROL POINTS					
ALGONQUIN RD IL. 62	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
CP 19	2,006,536.17	991,688.84	CP-XCUT	286+67.43	45.6' RT
CP 20	2,006,604.62	991,559.02	CP-PK	285+15.15	41.2' RT



ELEVATION BENCHMARKS DATUM: NAVD 1988 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
OSBM 20-13	SQUARE CUT SET ON WEST CORNER OF TRAFFIC SIGNAL HH FOUNDATION AT N.W. CORNER OF MAIN STREET & WILMOT RD.	770.47

HORIZONTAL CONTROL POINTS					
MAIN ST	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
CP 10010	2,102,472.94	1,015,482.77	CP-XCUT	307+45.67	56.3' RT
CP 10011	2,102,611.55	1,015,431.92	CP-PK	306+31.16	37.5' LT
CP 10012	2,102,629.85	1,015,278.52	CP-PK	304+88.06	21.1' RT

FILE NAME = bmk_180176_02

USER NAME = pandrows	DESIGNED - XXX	REVISED -
PLOT SCALE = 80'	DRAWN - XXX	REVISED -
PLOT DATE = 1/12/2022	CHECKED - XXX	REVISED -
	DATE -	REVISED -

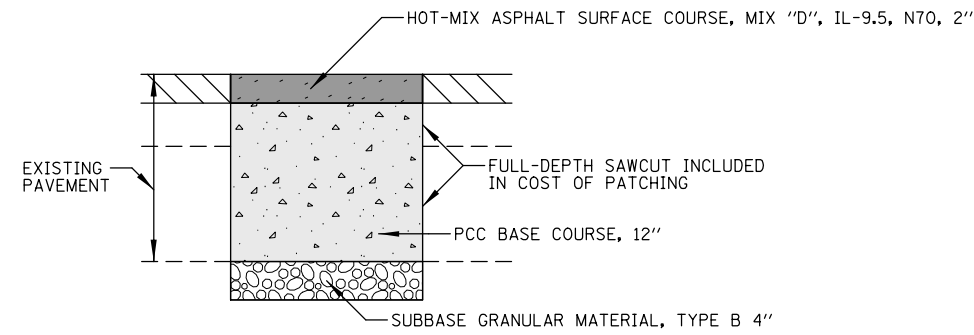
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 80' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H50	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
PLAN	SURVEYED	DATE
	ALIGNMENT CHECKED	
BY	BY	
	DATE	
NOTE BOOK	NOTE BOOK	
	NO.	
STRUCTURE NOTATIONS	STRUCTURE NOTATIONS	
	CHKD	



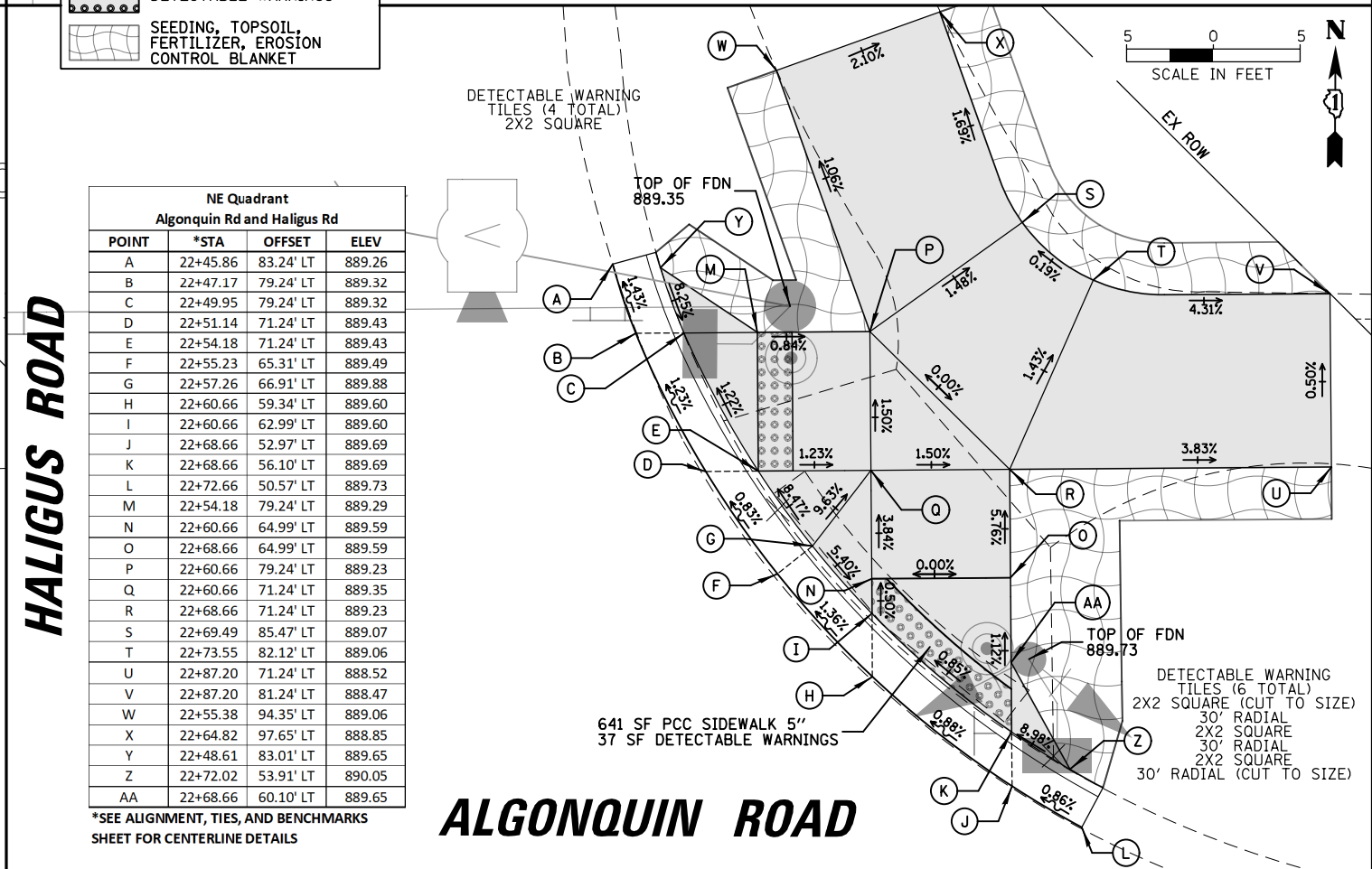
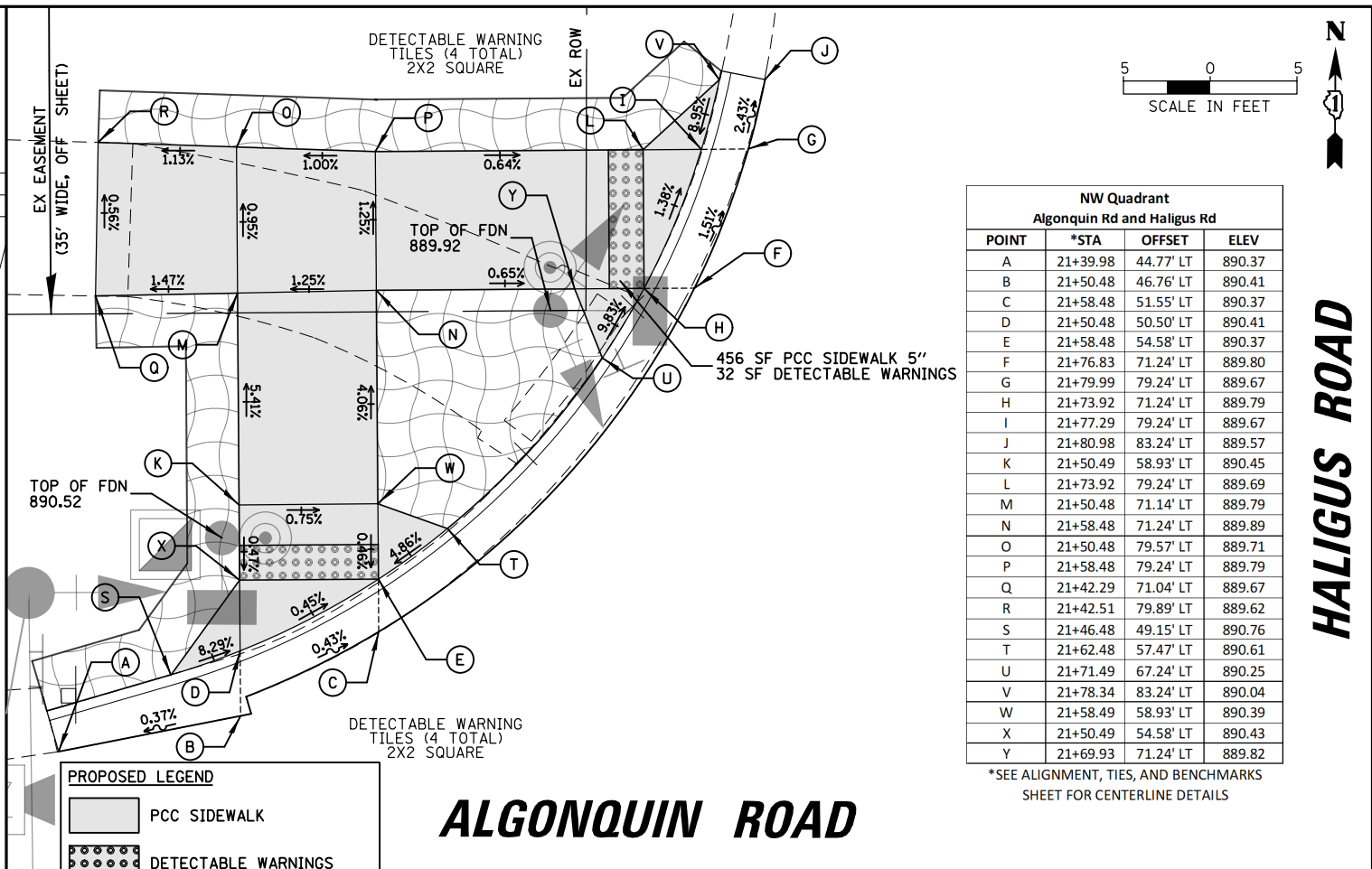
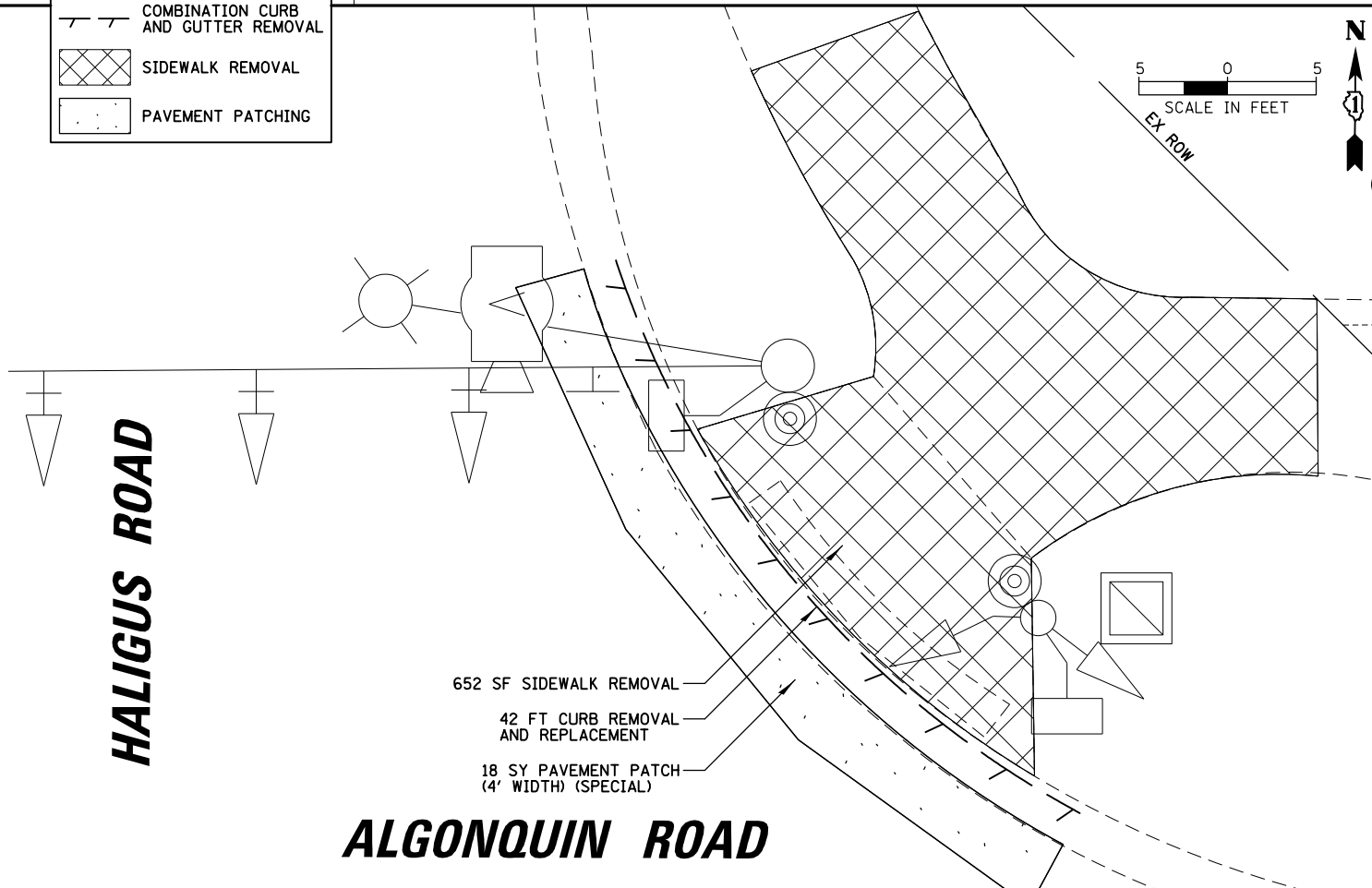
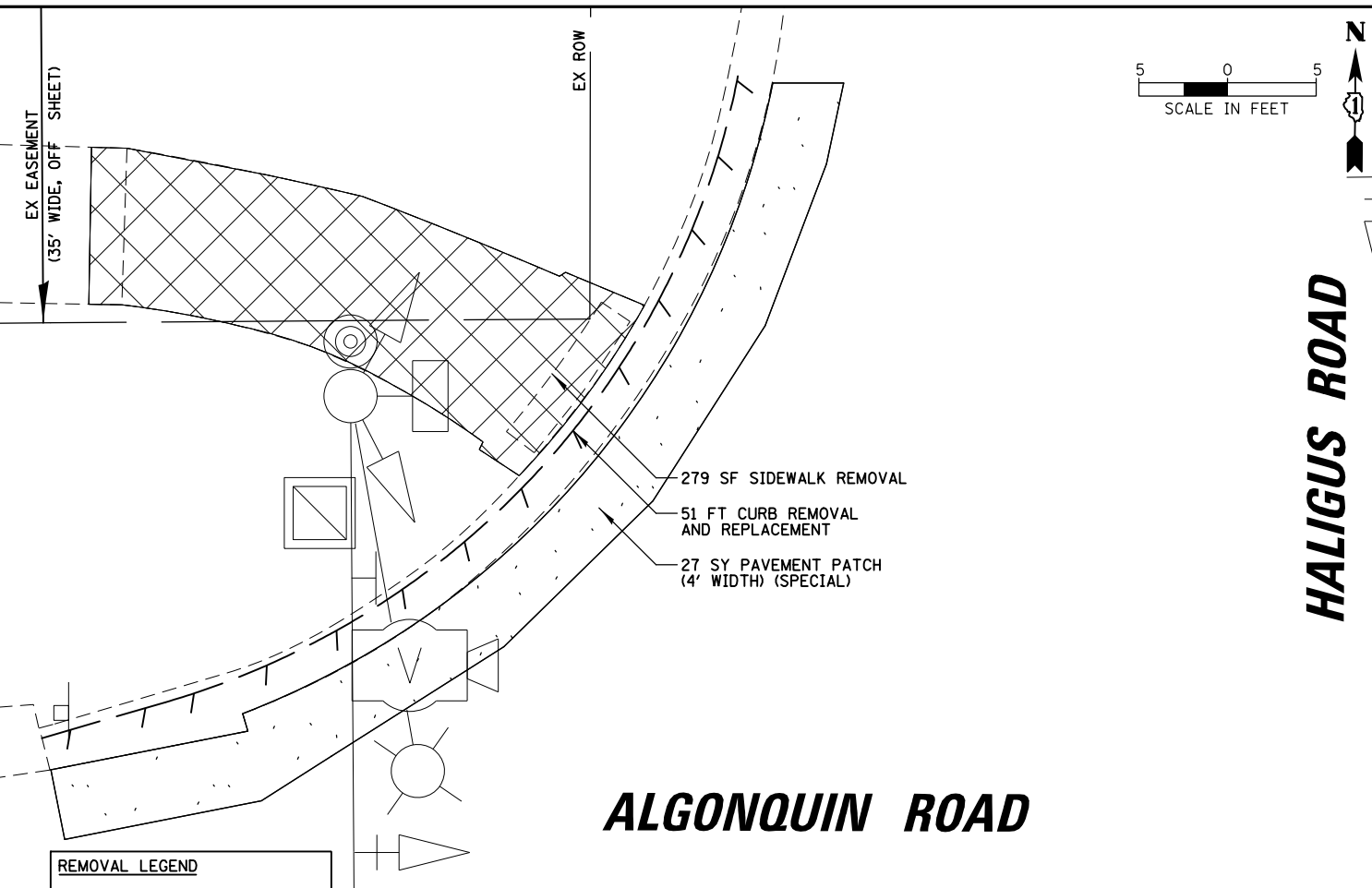
PAVEMENT PATCHING (SPECIAL)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE PAVEMENT PATCHING (SPECIAL)	AIR VOIDS @NDES	QMP
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"	4% @ 70 GYR.	LR 1030 - 2

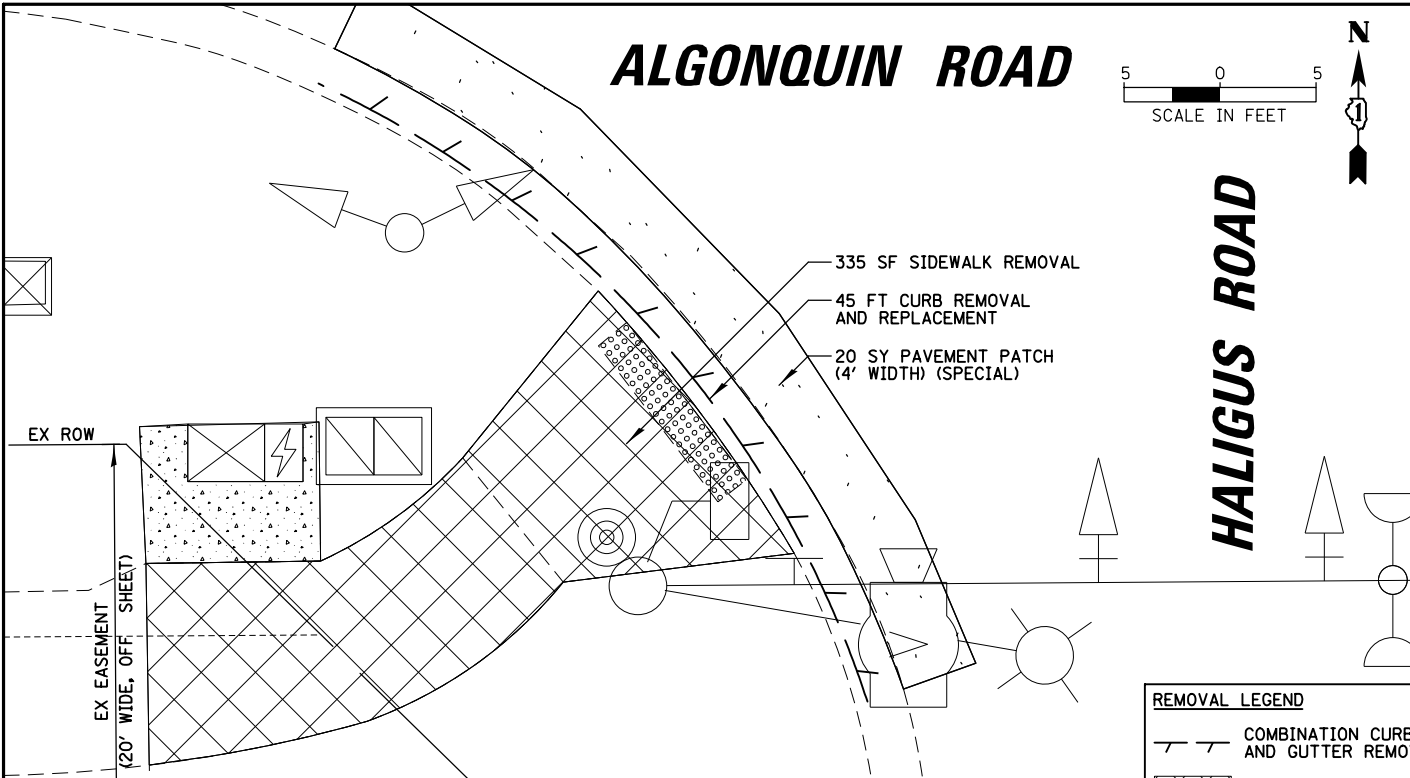
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
2. THE AC TYPE FOR NON-POLYMERIZED HMA SHALL BE "PG 64-22", UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

FILE NAME = DET_180176_01	USER NAME = pandrews	DESIGNED - XXX	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ACCESSIBILITY MODIFICATION DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 10'	DRAWN - XXX	REVISED -			339	18-00480-00-TL	MCHENRY	132	13
	PLOT DATE = 1/12/2022	CHECKED - XXX	REVISED -			CONTRACT NO. 61H50				
		DATE -	REVISED -			SCALE: 1" = 10'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 GRADES CHECKED: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK NO.: _____
 PROFILE: _____
 BLM. NOTED: _____
 STRUCTURE NOTATIONS: OK/NO

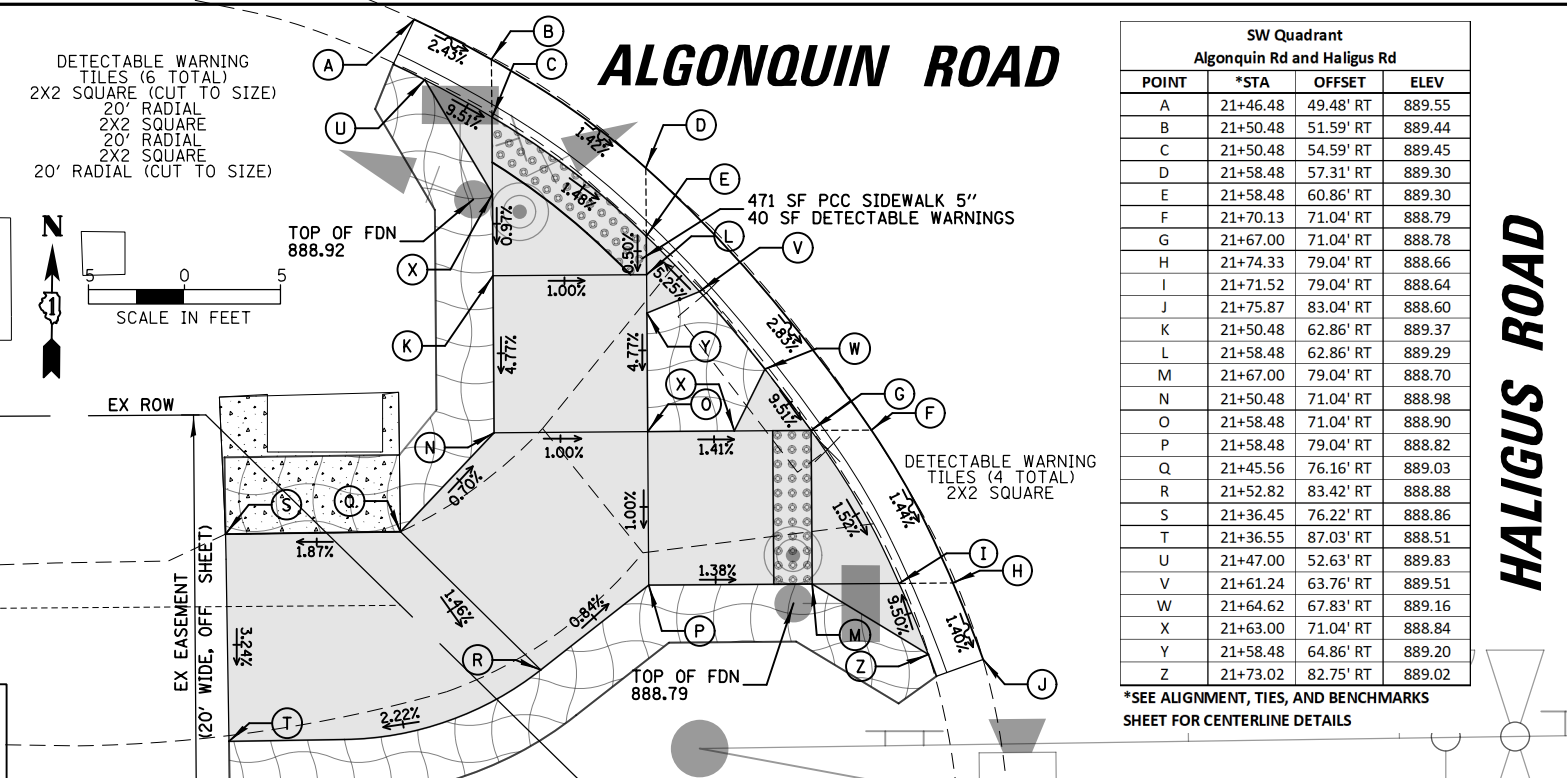
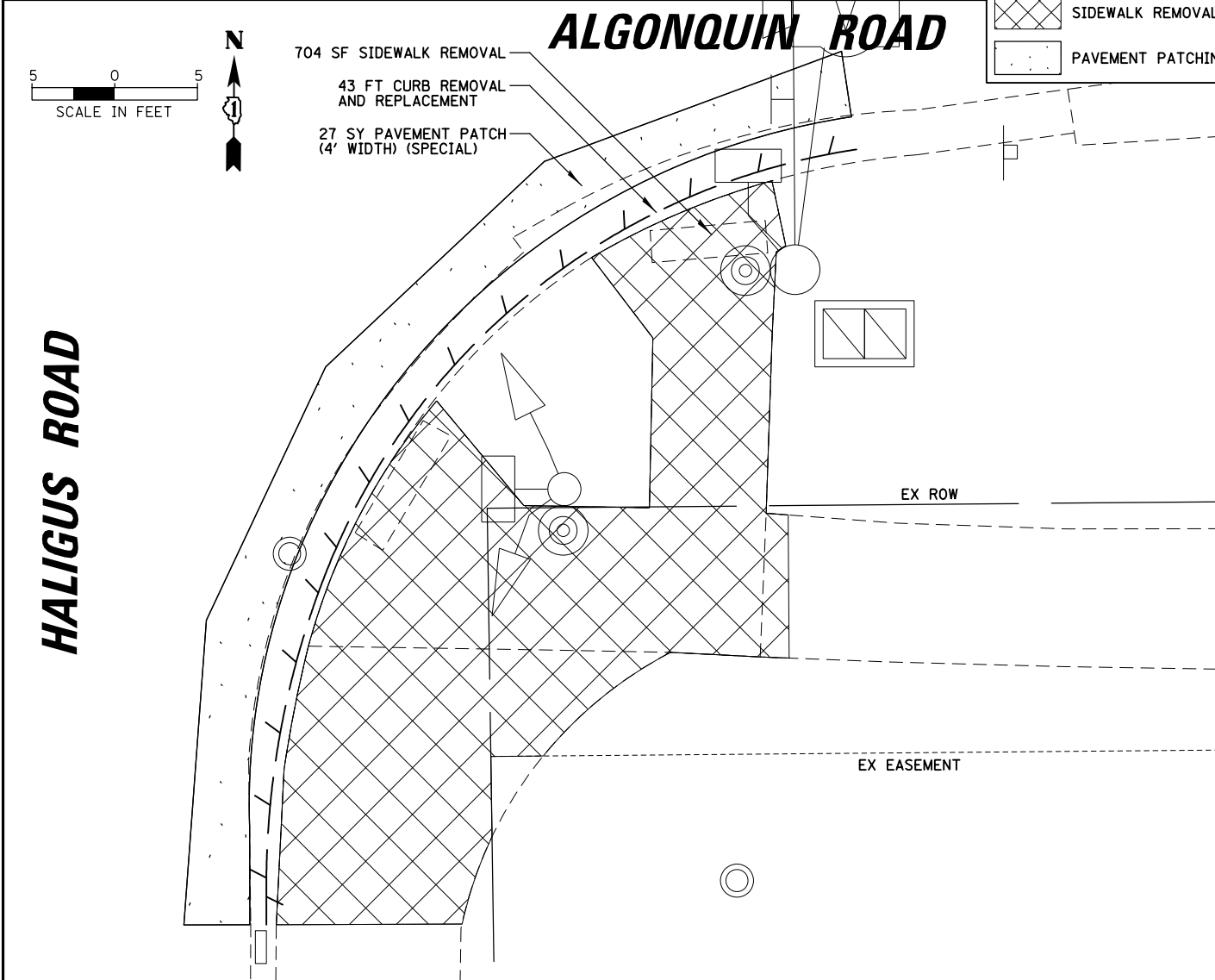


DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
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 NO.: _____ CAD FILE NAME: _____
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 NOTE BOOK: _____ E.M. NOTED: _____
 NO.: _____ STRUCTURE NOTATIONS: _____



REMOVAL LEGEND

- COMBINATION CURB AND GUTTER REMOVAL
- SIDEWALK REMOVAL
- PAVEMENT PATCHING



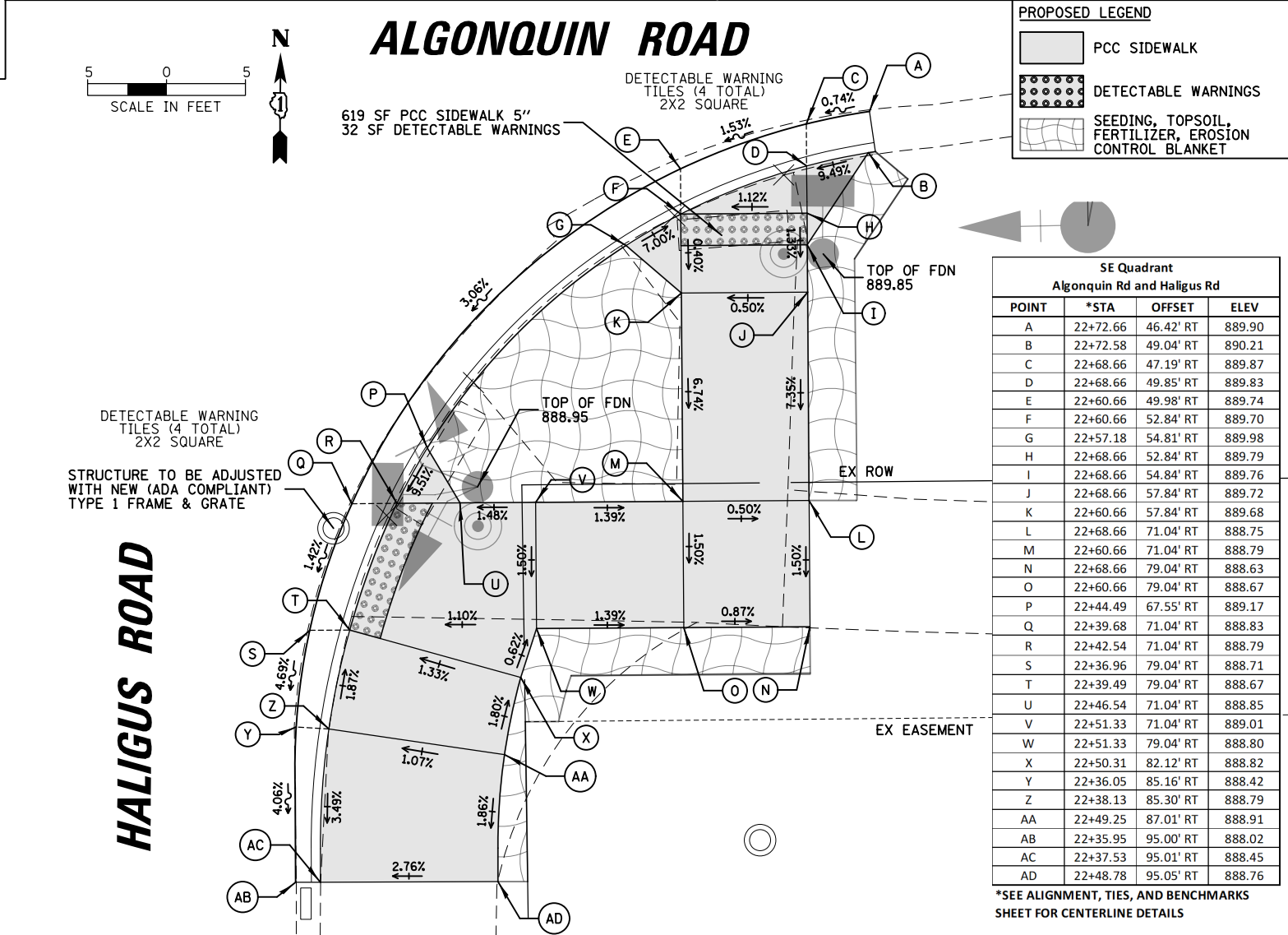
SW Quadrant
Algonquin Rd and Haligus Rd

POINT	*STA	OFFSET	ELEV
A	21+46.48	49.48' RT	889.55
B	21+50.48	51.59' RT	889.44
C	21+50.48	54.59' RT	889.45
D	21+58.48	57.31' RT	889.30
E	21+58.48	60.86' RT	889.30
F	21+70.13	71.04' RT	888.79
G	21+67.00	71.04' RT	888.78
H	21+74.33	79.04' RT	888.66
I	21+71.52	79.04' RT	888.64
J	21+75.87	83.04' RT	888.60
K	21+50.48	62.86' RT	889.37
L	21+58.48	62.86' RT	889.29
M	21+67.00	79.04' RT	888.70
N	21+50.48	71.04' RT	888.98
O	21+58.48	71.04' RT	888.90
P	21+58.48	79.04' RT	888.82
Q	21+45.56	76.16' RT	889.03
R	21+52.82	83.42' RT	888.88
S	21+36.45	76.22' RT	888.86
T	21+36.55	87.03' RT	888.51
U	21+47.00	52.63' RT	889.83
V	21+61.24	63.76' RT	889.51
W	21+64.62	67.83' RT	889.16
X	21+63.00	71.04' RT	888.84
Y	21+58.48	64.86' RT	889.20
Z	21+73.02	82.75' RT	889.02

*SEE ALIGNMENT, TIES, AND BENCHMARKS SHEET FOR CENTERLINE DETAILS

PROPOSED LEGEND

- PCC SIDEWALK
- DETECTABLE WARNINGS
- SEEDING, TOPSOIL, FERTILIZER, EROSION CONTROL BLANKET



SE Quadrant
Algonquin Rd and Haligus Rd

POINT	*STA	OFFSET	ELEV
A	22+72.66	46.42' RT	889.90
B	22+72.58	49.04' RT	890.21
C	22+68.66	47.19' RT	889.87
D	22+68.66	49.85' RT	889.83
E	22+60.66	49.98' RT	889.74
F	22+60.66	52.84' RT	889.70
G	22+57.18	54.81' RT	889.98
H	22+68.66	52.84' RT	889.79
I	22+68.66	54.84' RT	889.76
J	22+68.66	57.84' RT	889.72
K	22+60.66	57.84' RT	889.68
L	22+68.66	71.04' RT	888.75
M	22+60.66	71.04' RT	888.79
N	22+68.66	79.04' RT	888.63
O	22+60.66	79.04' RT	888.67
P	22+44.49	67.55' RT	889.17
Q	22+39.68	71.04' RT	888.83
R	22+42.54	71.04' RT	888.79
S	22+36.96	79.04' RT	888.71
T	22+39.49	79.04' RT	888.67
U	22+46.54	71.04' RT	888.85
V	22+51.33	71.04' RT	889.01
W	22+51.33	79.04' RT	888.80
X	22+50.31	82.12' RT	888.82
Y	22+36.05	85.16' RT	888.42
Z	22+38.13	85.30' RT	888.79
AA	22+49.25	87.01' RT	888.91
AB	22+35.95	95.00' RT	888.02
AC	22+37.53	95.01' RT	888.45
AD	22+48.78	95.05' RT	888.76

*SEE ALIGNMENT, TIES, AND BENCHMARKS SHEET FOR CENTERLINE DETAILS

FILE NAME = ADA.180176.02	USER NAME = pandrows	DESIGNED - XXX	REVISED -
		DRAWN - XXX	REVISED -
		CHECKED - XXX	REVISED -
		DATE -	REVISED -

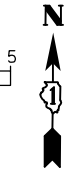
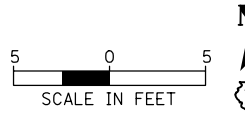
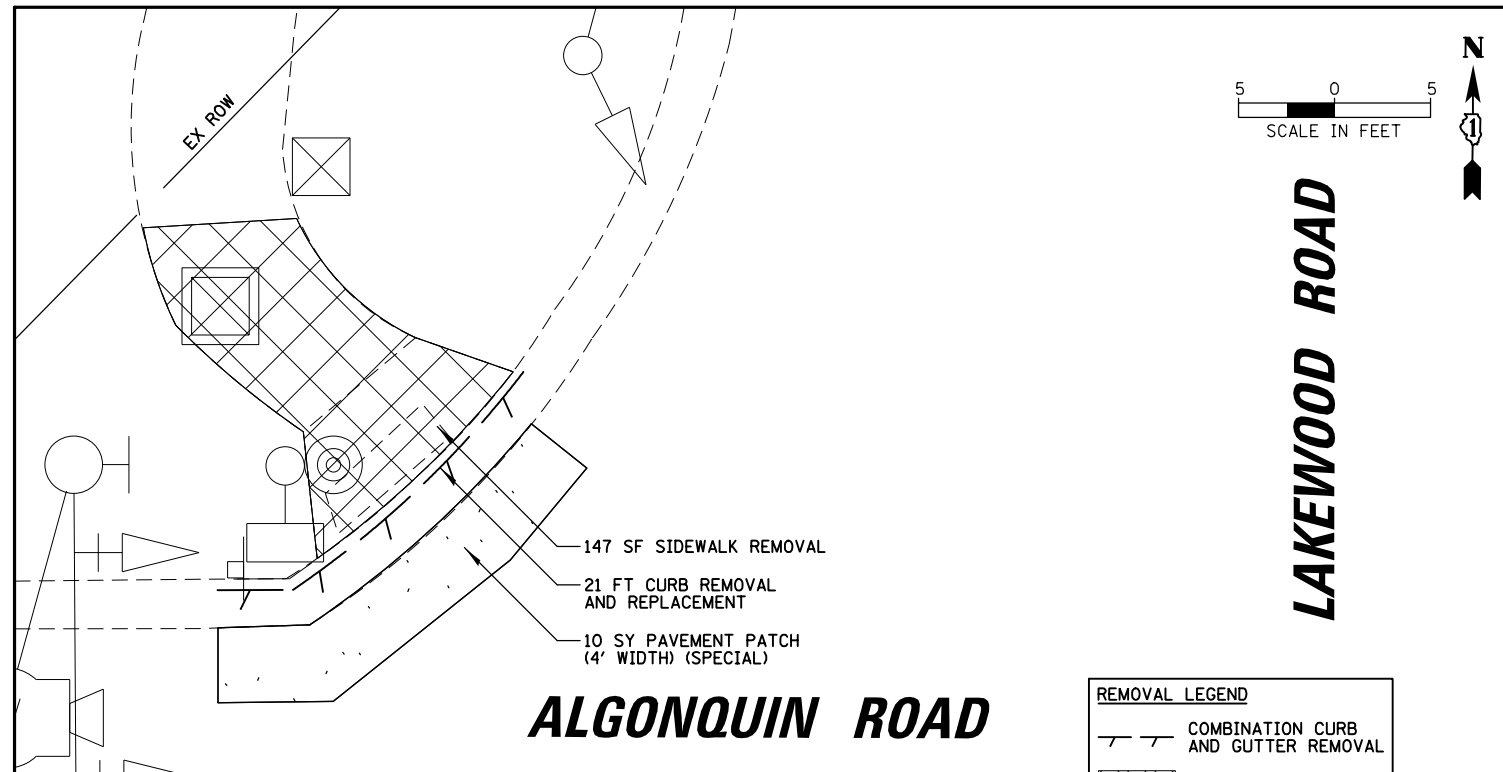
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ACCESSIBILITY REMOVAL AND MODIFICATION PLANS
ALGONQUIN ROAD AT HALIGUS ROAD

SCALE: 1" = 10' SHEET NO. 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 339	SECTION 18-00480-00-TL	COUNTY MCHENRY	TOTAL SHEETS 132	SHEET NO. 15
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 61H50

DATE: _____ BY: _____
 SURVEYED _____ ALIGNED _____ CHECKED _____
 PLAN NOTE BOOK NO. _____ RT. OF WAY CHECKED _____
 PROFILE SURVEYED _____ GRADES CHECKED _____
 NOTE BOOK NO. _____ ELEM. NOTED _____ STRUCTURE NOTATIONS OK/NO

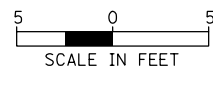
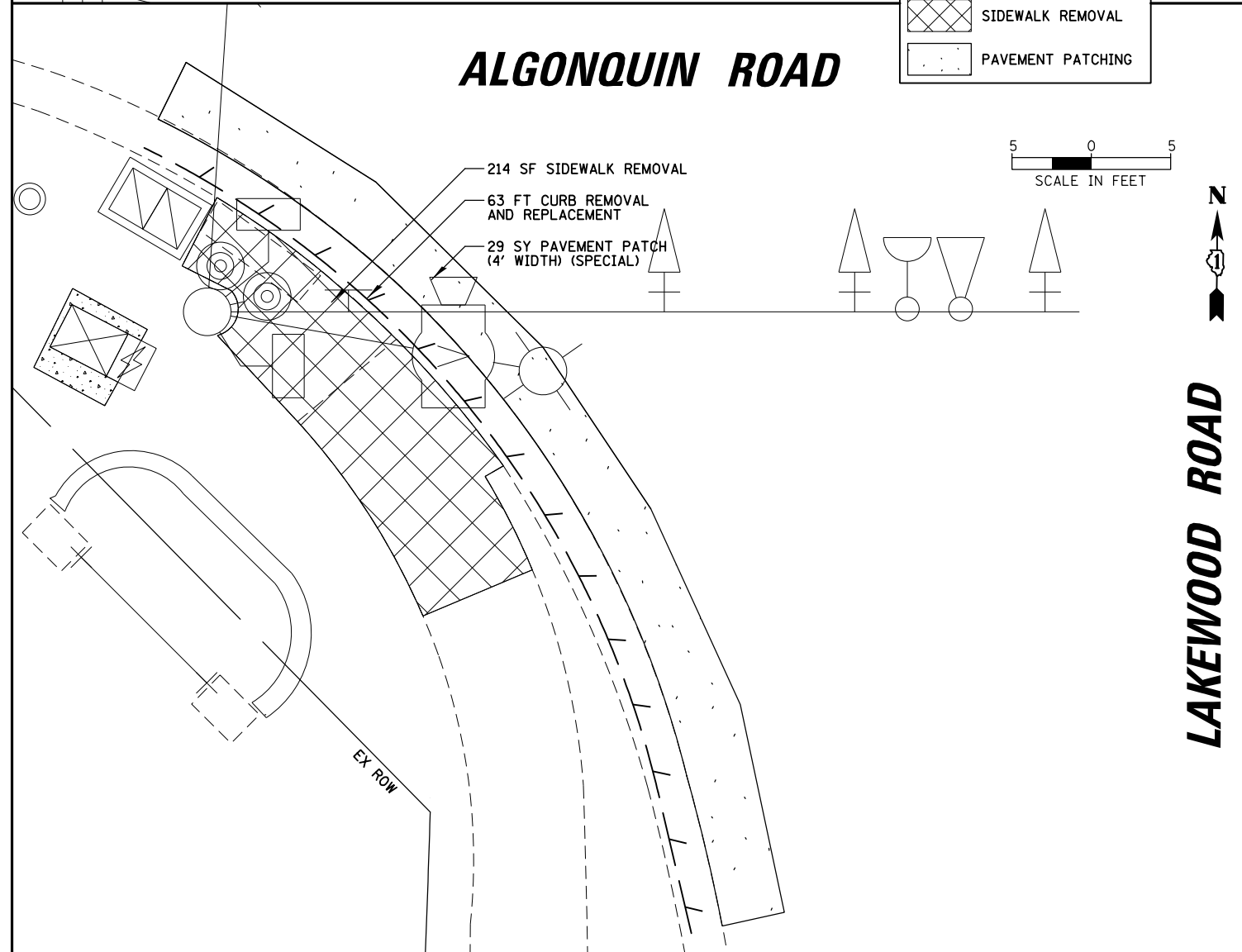


LAKWOOD ROAD

ALGONQUIN ROAD

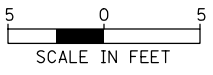
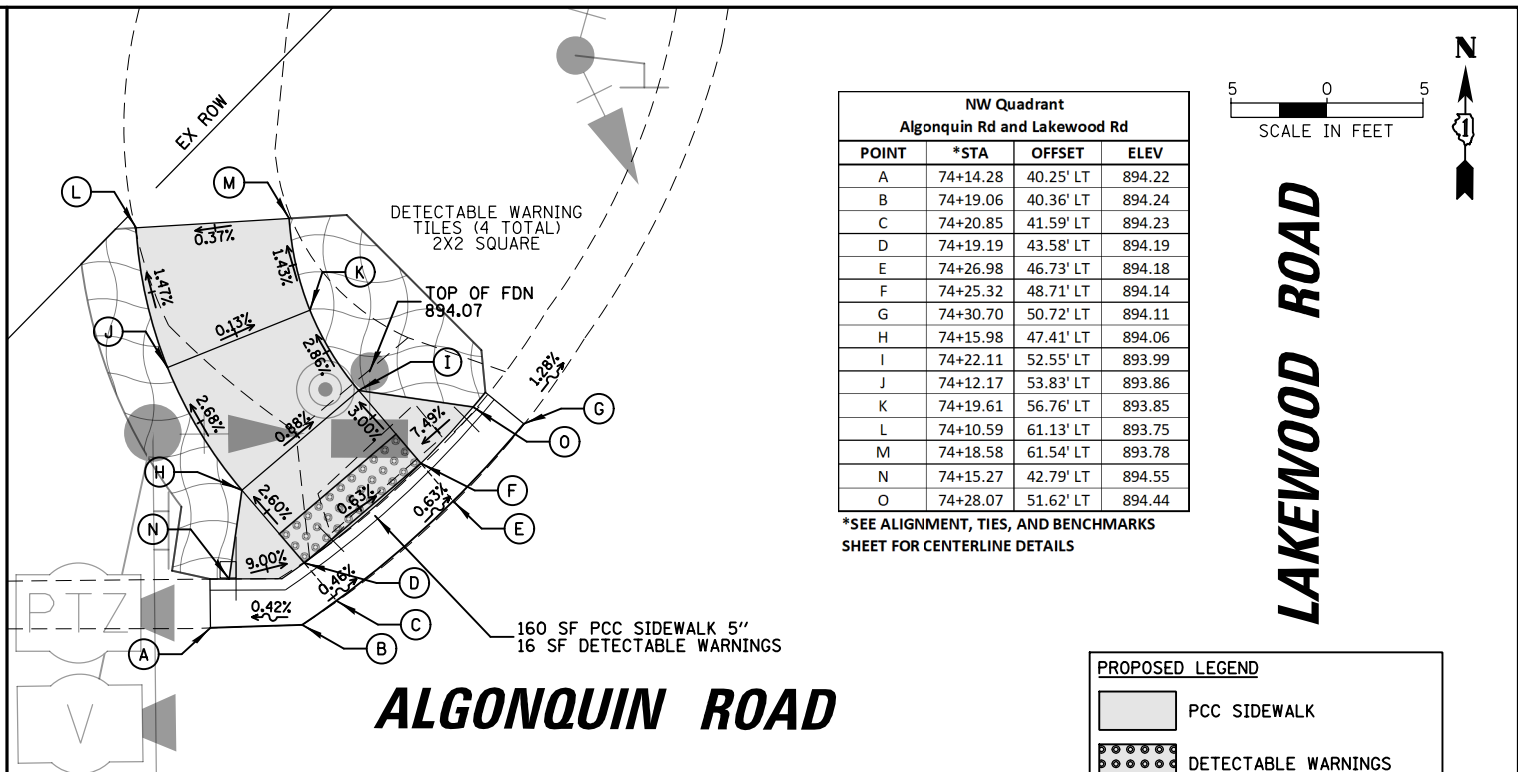
REMOVAL LEGEND

	COMBINATION CURB AND GUTTER REMOVAL
	SIDEWALK REMOVAL
	PAVEMENT PATCHING



LAKWOOD ROAD

ALGONQUIN ROAD



LAKWOOD ROAD

ALGONQUIN ROAD

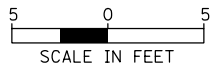
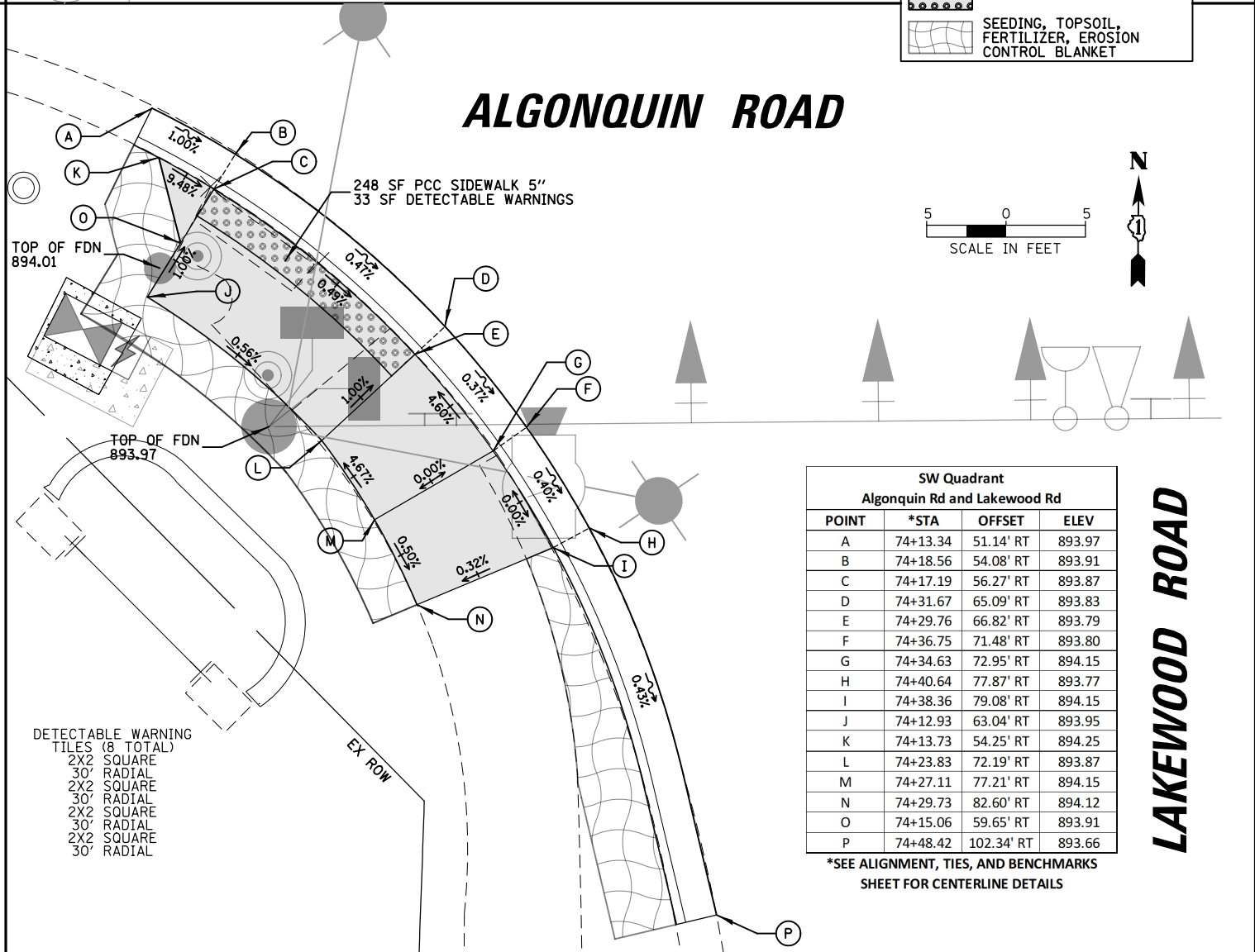
**NW Quadrant
Algonquin Rd and Lakewood Rd**

POINT	*STA	OFFSET	ELEV
A	74+14.28	40.25' LT	894.22
B	74+19.06	40.36' LT	894.24
C	74+20.85	41.59' LT	894.23
D	74+19.19	43.58' LT	894.19
E	74+26.98	46.73' LT	894.18
F	74+25.32	48.71' LT	894.14
G	74+30.70	50.72' LT	894.11
H	74+15.98	47.41' LT	894.06
I	74+22.11	52.55' LT	893.99
J	74+12.17	53.83' LT	893.86
K	74+19.61	56.76' LT	893.85
L	74+10.59	61.13' LT	893.75
M	74+18.58	61.54' LT	893.78
N	74+15.27	42.79' LT	894.55
O	74+28.07	51.62' LT	894.44

*SEE ALIGNMENT, TIES, AND BENCHMARKS
SHEET FOR CENTERLINE DETAILS

PROPOSED LEGEND

	PCC SIDEWALK
	DETECTABLE WARNINGS
	SEEDING, TOPSOIL, FERTILIZER, EROSION CONTROL BLANKET



LAKWOOD ROAD

ALGONQUIN ROAD

**SW Quadrant
Algonquin Rd and Lakewood Rd**

POINT	*STA	OFFSET	ELEV
A	74+13.34	51.14' RT	893.97
B	74+18.56	54.08' RT	893.91
C	74+17.19	56.27' RT	893.87
D	74+31.67	65.09' RT	893.83
E	74+29.76	66.82' RT	893.79
F	74+36.75	71.48' RT	893.80
G	74+34.63	72.95' RT	894.15
H	74+40.64	77.87' RT	893.77
I	74+38.36	79.08' RT	894.15
J	74+12.93	63.04' RT	893.95
K	74+13.73	54.25' RT	894.25
L	74+23.83	72.19' RT	893.87
M	74+27.11	77.21' RT	894.15
N	74+29.73	82.60' RT	894.12
O	74+15.06	59.65' RT	893.91
P	74+48.42	102.34' RT	893.66

*SEE ALIGNMENT, TIES, AND BENCHMARKS
SHEET FOR CENTERLINE DETAILS

FILE NAME = ADA.180176_03	USER NAME = pandrows	DESIGNED - XXX	REVISED -
		DRAWN - XXX	REVISED -
		CHECKED - XXX	REVISED -
		DATE -	REVISED -

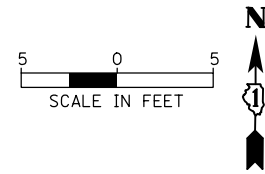
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ACCESSIBILITY REMOVAL AND MODIFICATION PLANS
ALGONQUIN ROAD AT LAKEWOOD ROAD**

SCALE: 1" = 10' SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 339	SECTION 18-00480-00-TL	COUNTY MCHENRY	TOTAL SHEETS 132	SHEET NO. 16
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61H50		

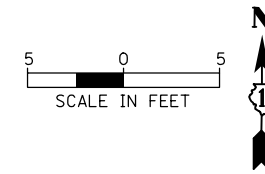
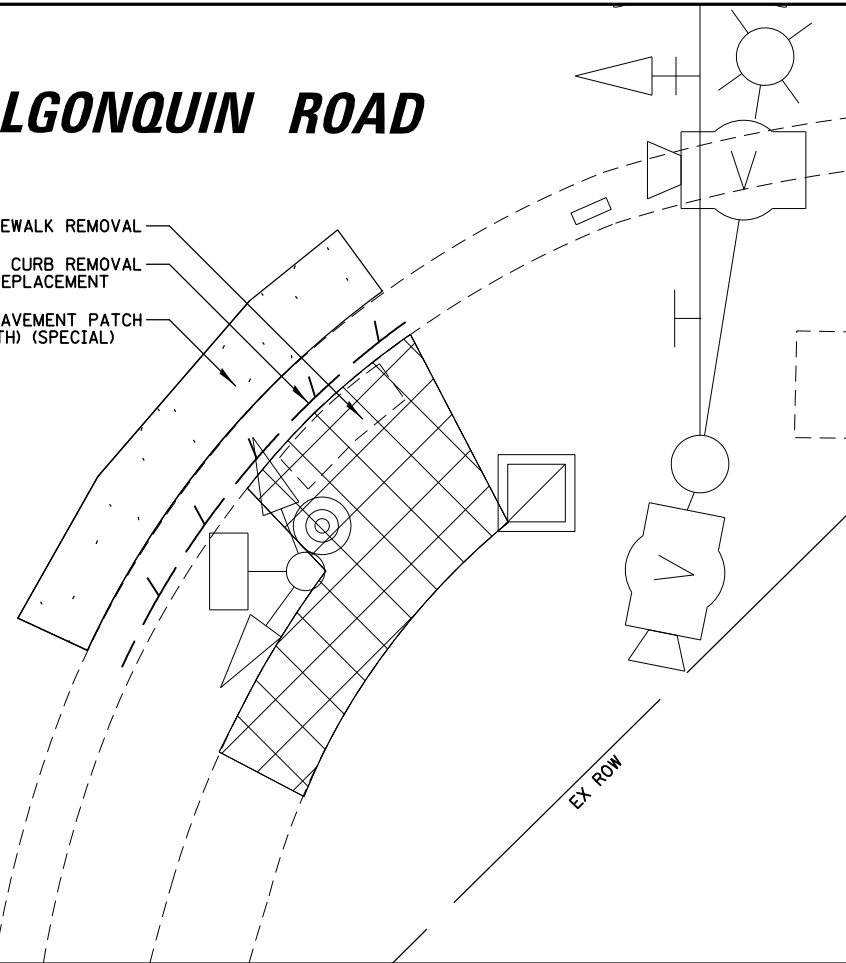
PROFILE SURVEYED _____ DATE _____
 NOTE BOOK _____
 NO. _____
 SURVEYED _____
 GRADES CHECKED _____
 B.M. NOTED _____
 STRUCTURE NOTATIONS OK/NO



ALGONQUIN ROAD

LAKWOOD ROAD

- 162 SF SIDEWALK REMOVAL
- 24 FT CURB REMOVAL AND REPLACEMENT
- 11 SY PAVEMENT PATCH (4' WIDTH) (SPECIAL)



LAKWOOD ROAD

SE Quadrant Algonquin Rd and Lakewood Rd			
POINT	*STA	OFFSET	ELEV
A	75+23.45	69.81' RT	894.50
B	75+26.09	64.98' RT	894.57
C	75+30.88	58.56' RT	894.63
D	75+34.76	54.65' RT	894.63
E	75+28.17	66.52' RT	894.53
F	75+32.95	60.11' RT	894.59
G	75+32.98	70.11' RT	894.72
H	75+37.76	63.70' RT	894.78
I	75+36.99	73.10' RT	894.78
J	75+41.77	66.69' RT	894.84
K	75+30.26	75.16' RT	894.93
L	75+34.66	77.53' RT	894.93
M	75+26.22	70.02' RT	894.89
N	75+35.74	57.25' RT	894.94
O	75+36.16	62.50' RT	894.72
P	75+31.38	68.92' RT	894.66

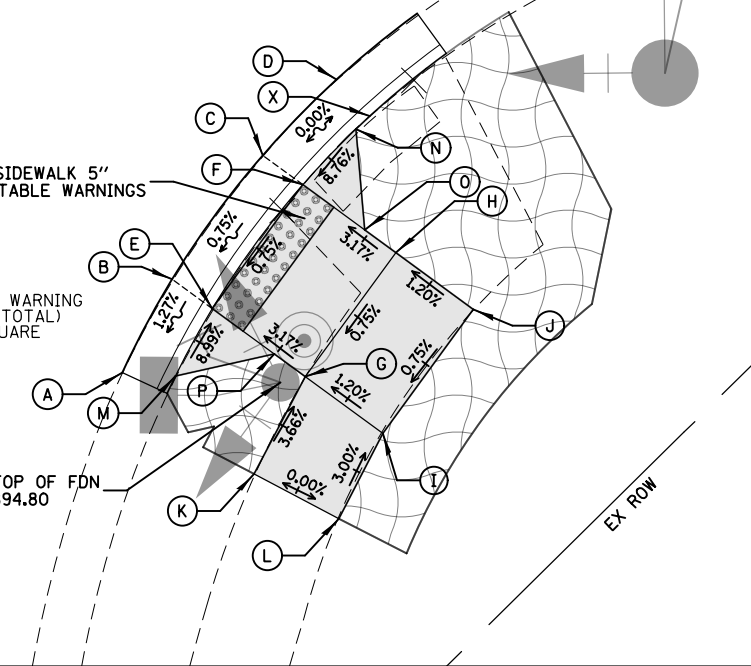
*SEE ALIGNMENT, TIES, AND BENCHMARKS SHEET FOR CENTERLINE DETAILS

ALGONQUIN ROAD

- 131 SF PCC SIDEWALK 5"
- 16 SF DETECTABLE WARNINGS

DETECTABLE WARNING TILES (4 TOTAL) 2X2 SQUARE

TOP OF FDN 894.80



REMOVAL LEGEND	
	COMBINATION CURB AND GUTTER REMOVAL
	SIDEWALK REMOVAL
	PAVEMENT PATCHING

PROPOSED LEGEND	
	PCC SIDEWALK
	DETECTABLE WARNINGS
	SEEDING, TOPSOIL, FERTILIZER, EROSION CONTROL BLANKET

FILE NAME = ADA_180176_04

USER NAME = pandrews
 PLOT SCALE = 10'
 PLOT DATE = 1/12/2022

DESIGNED - XXX
 DRAWN - XXX
 CHECKED - XXX
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

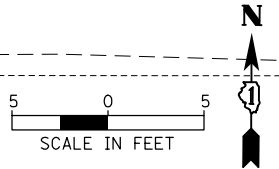
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ACCESSIBILITY REMOVAL AND MODIFICATION PLANS
ALGONQUIN ROAD AT LAKEWOOD ROAD

SCALE: 1" = 10' SHEET NO. 4 OF 8 SHEETS STA. TO STA.

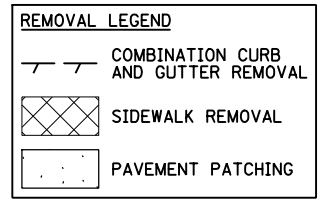
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	18-00480-00-TL	MCHENRY	132	17
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H50	

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 RT. OF WAY CHECKED: _____
 DATE: _____ FILE NAME: _____
 PLAN: _____
 NOTE BOOK NO.: _____
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
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 STRUCTURE NOTATIONS OK'D: _____
 PROFILE: _____
 NOTE BOOK NO.: _____



EX ROW

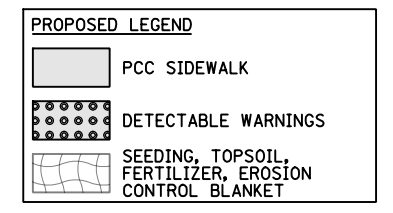
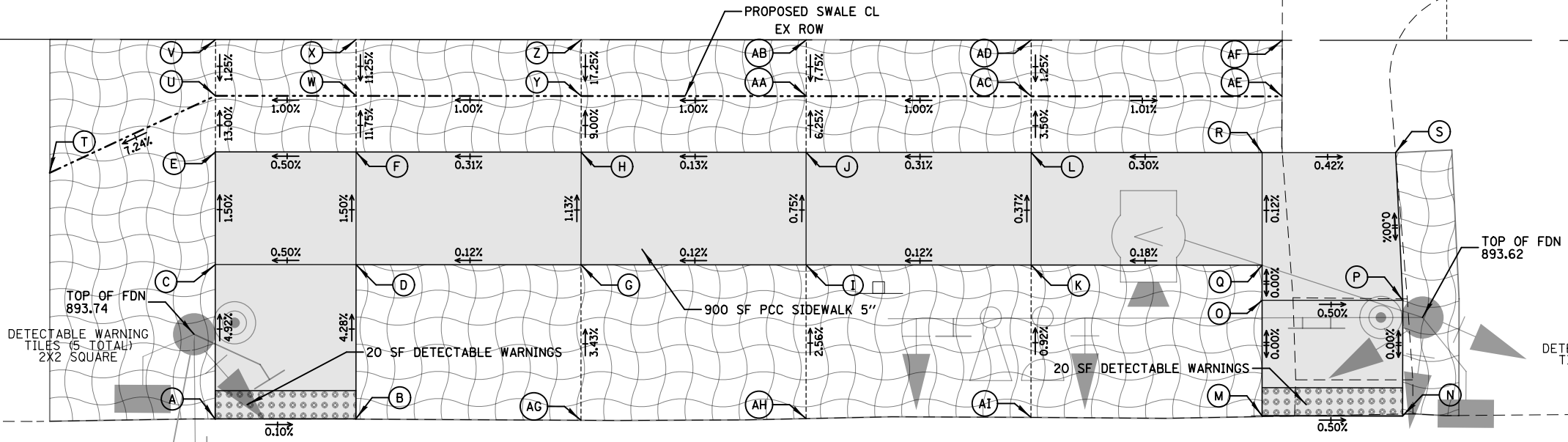
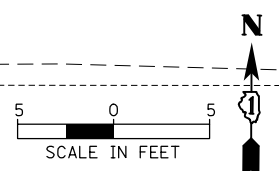
165 SF SIDEWALK REMOVAL



ALGONQUIN ROAD

**NW Quadrant/NE Quadrant
Algonquin Rd and Square Barn Rd**

POINT	*STA	OFFSET	ELEV
A	113+87.81	43.39' LT	893.93
B	113+97.81	43.39' LT	893.91
C	113+87.81	54.37' LT	893.39
D	113+97.81	54.37' LT	893.44
E	113+87.81	62.37' LT	893.27
F	113+97.81	62.37' LT	893.32
G	114+13.81	54.37' LT	893.46
H	114+13.81	62.37' LT	893.37
I	114+29.81	54.37' LT	893.48
J	114+29.81	62.37' LT	893.42
K	114+45.81	54.37' LT	893.50
L	114+45.81	62.37' LT	893.47
M	114+62.24	43.66' LT	893.53
N	114+72.24	43.66' LT	893.48
O	114+62.24	51.88' LT	893.53
P	114+72.24	51.88' LT	893.48
Q	114+62.24	54.37' LT	893.53
R	114+62.24	62.37' LT	893.52
S	114+71.73	62.37' LT	893.48
T	113+76.04	60.88' LT	891.81
U	113+87.81	66.37' LT	892.75
V	113+87.81	70.37' LT	892.80
W	113+97.81	66.37' LT	892.85
X	113+97.81	70.37' LT	893.30
Y	114+13.81	66.37' LT	893.01
Z	114+13.81	70.37' LT	893.70
AA	114+29.81	66.37' LT	893.17
AB	114+29.81	70.37' LT	893.48
AC	114+45.81	66.37' LT	893.33
AD	114+45.81	70.37' LT	893.38
AE	114+63.65	66.37' LT	893.51
AF	114+63.66	70.36' LT	893.49
AG	114+13.81	43.29' LT	893.84
AH	114+29.81	43.45' LT	893.76
AI	114+45.81	43.54' LT	893.60



ALGONQUIN ROAD

*SEE ALIGNMENT, TIES, AND BENCHMARKS SHEET FOR CENTERLINE DETAILS

FILE NAME = ADA.180176_05

USER NAME = pandrows	DESIGNED - XXX	REVISED -
PLOT SCALE = 18"	DRAWN - XXX	REVISED -
PLOT DATE = 1/12/2022	CHECKED - XXX	REVISED -
	DATE -	REVISED -

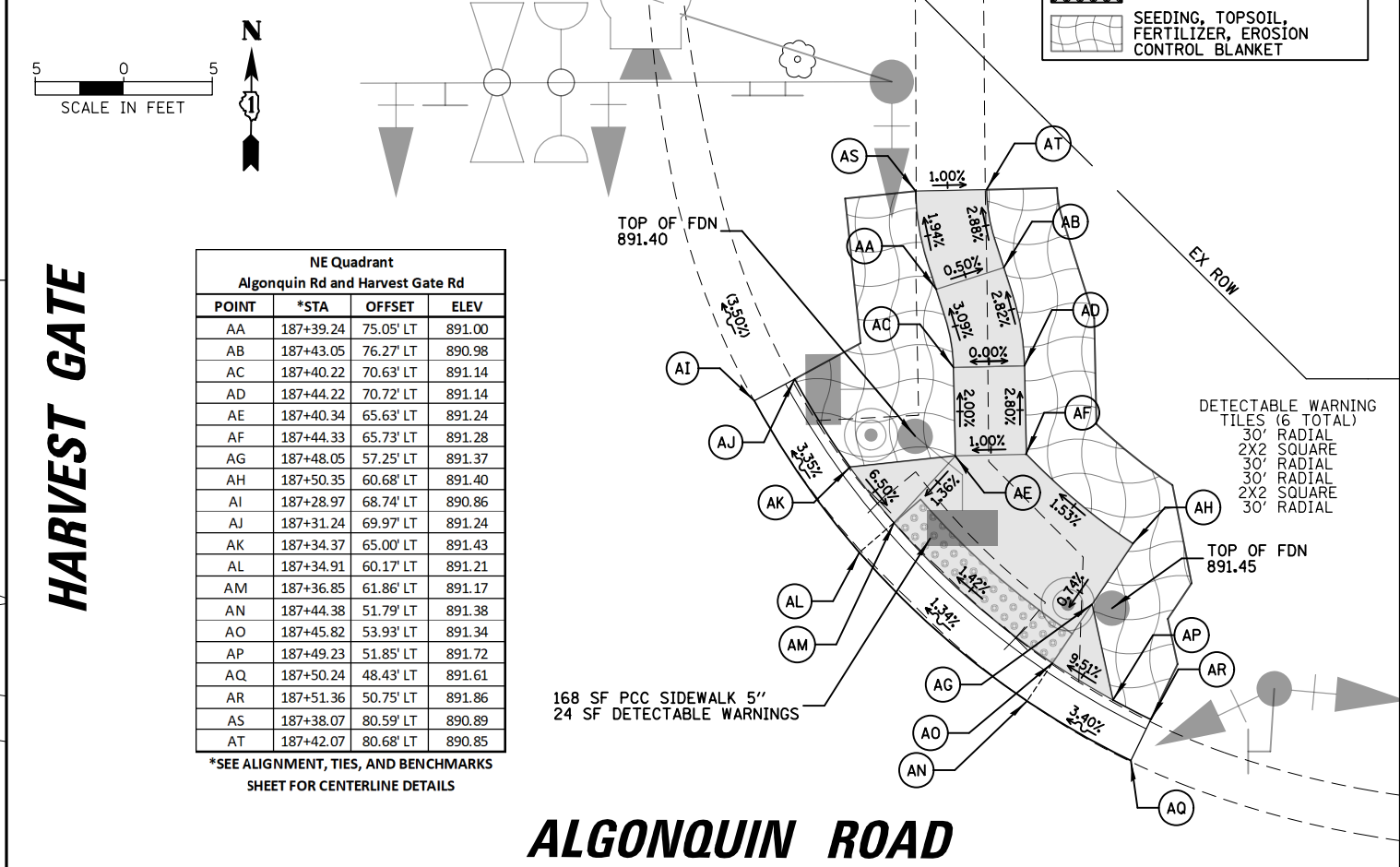
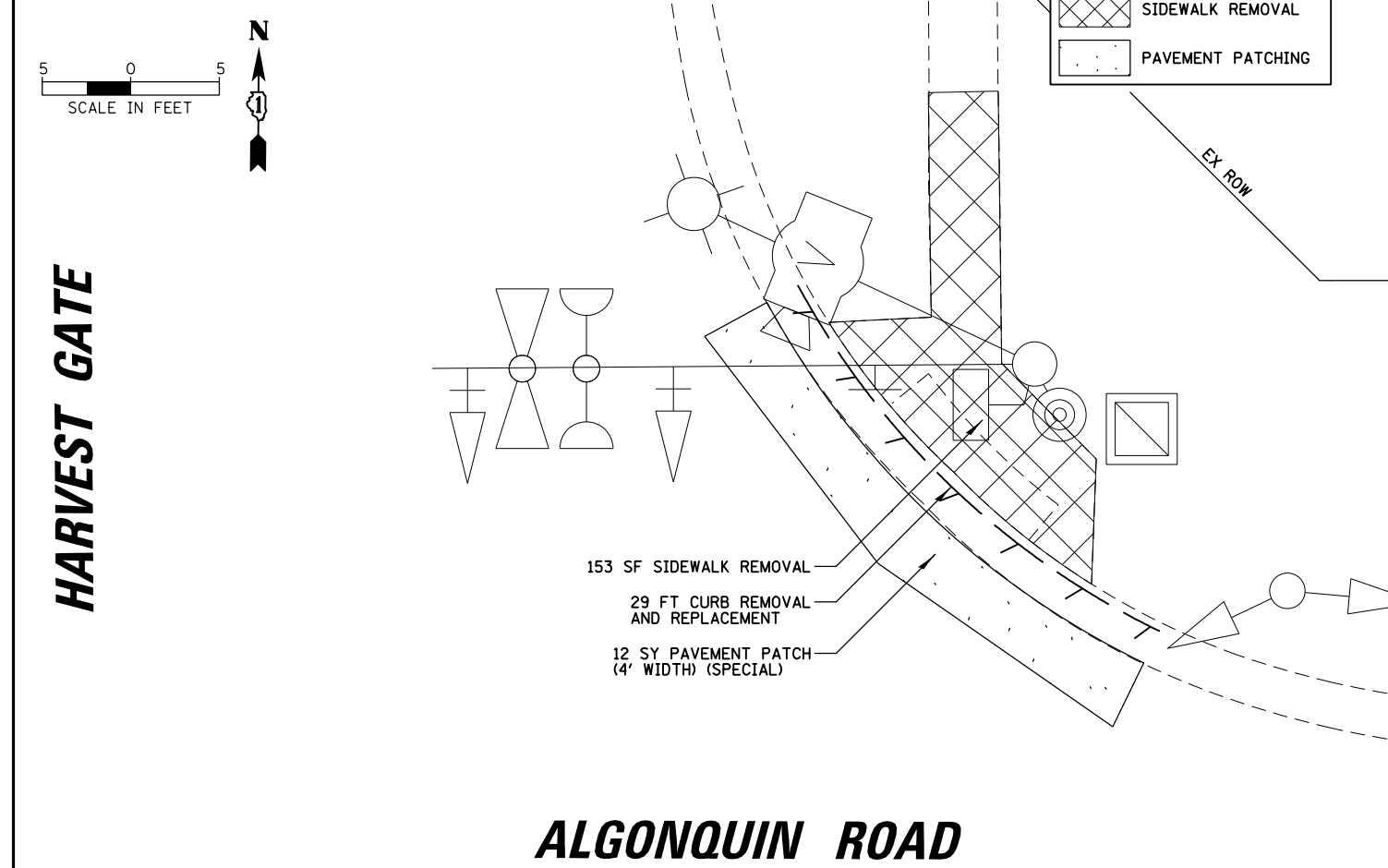
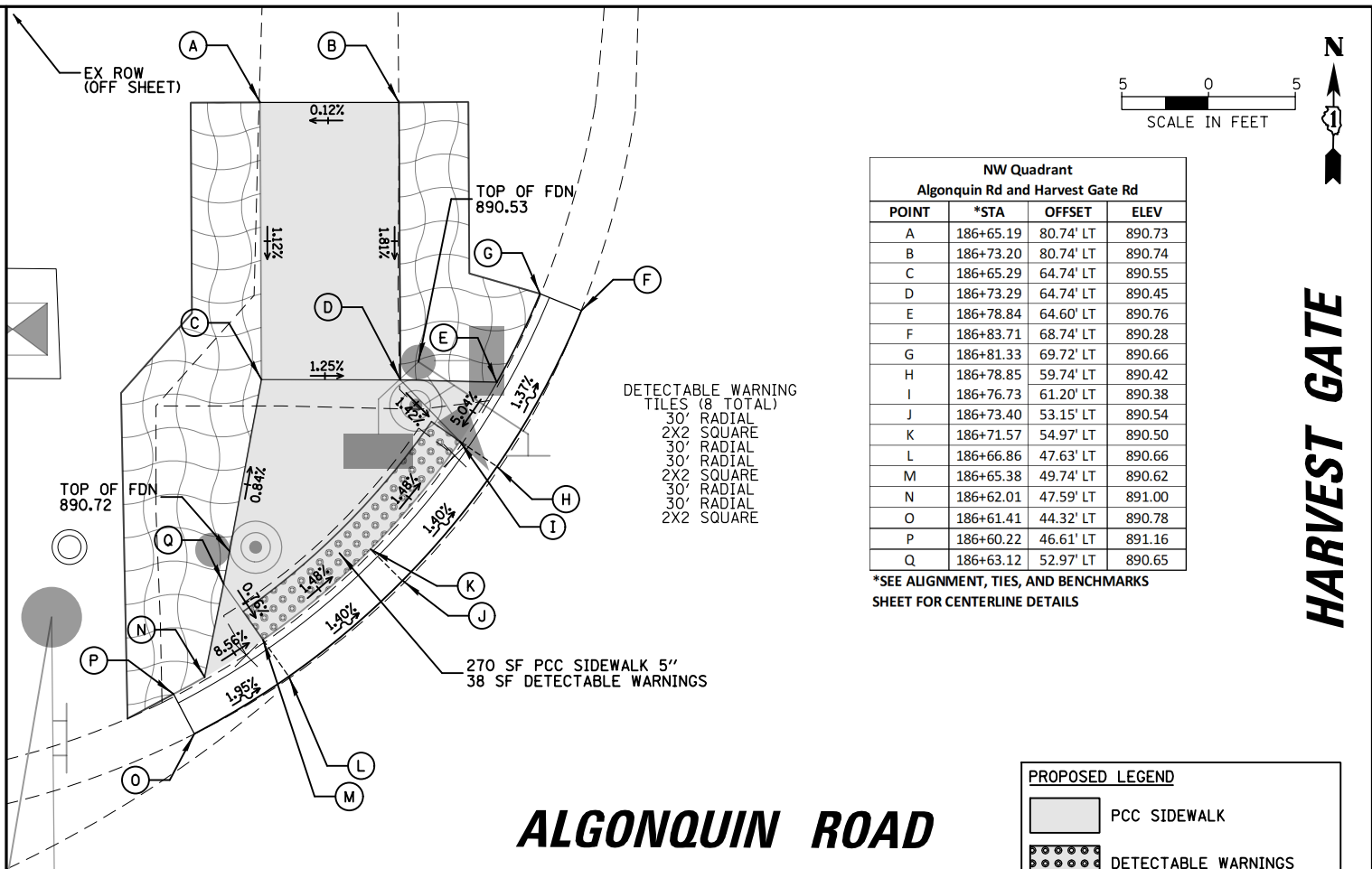
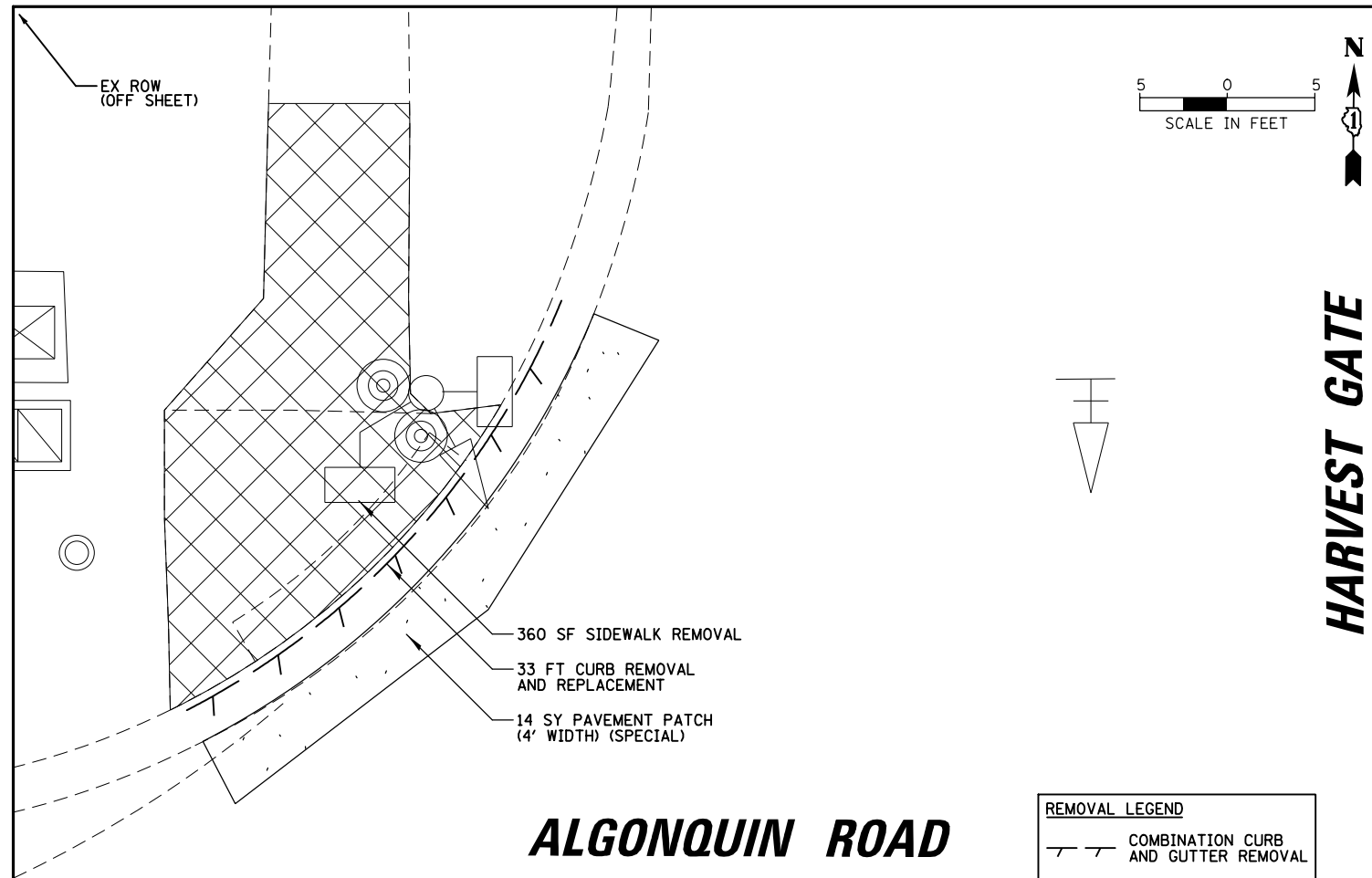
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ACCESSIBILITY REMOVAL AND MODIFICATION PLANS
ALGONQUIN ROAD AT SQUARE BARN ROAD

SCALE: 1" = 10' SHEET NO. 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	18-00480-00-TL	MCHENRY	132	18
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H50	

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 NOTE BOOK: _____ RT. OF WAY CHECKED: _____
 NO.: _____ CAD FILE NAME: _____
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 NOTE BOOK: _____ ELEM. NOTED: _____
 NO.: _____ STRUCTURE NOTATIONS: _____



TRAFFIC SIGNAL LEGEND

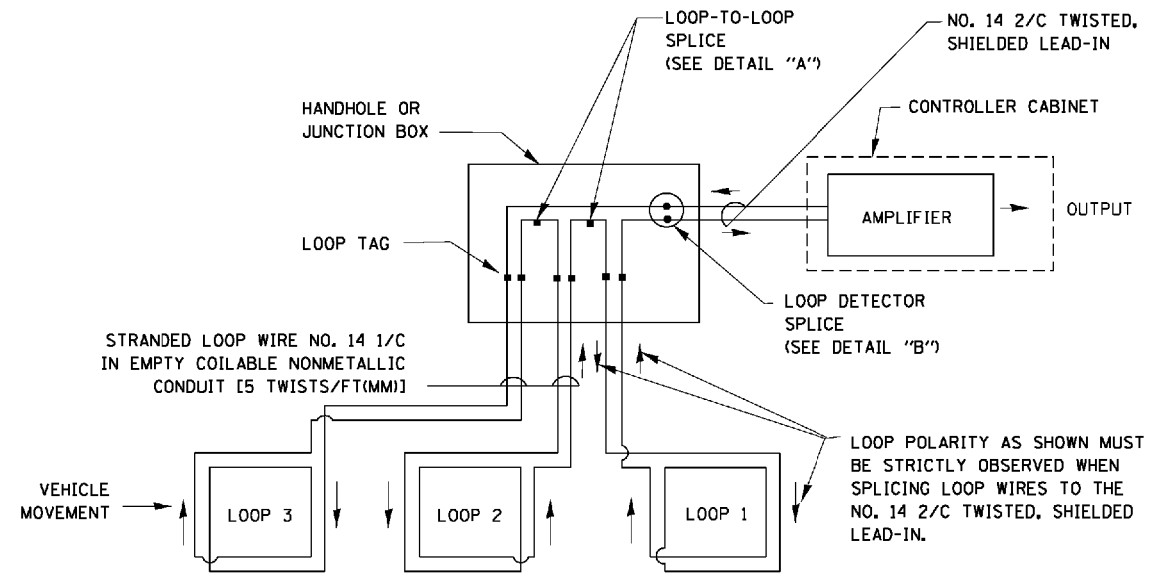
(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED			RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED			MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

TS SHT NO. 1

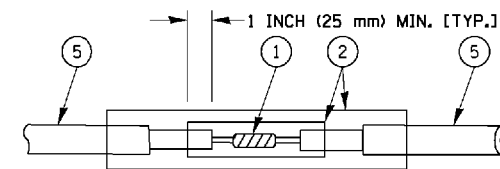
LOOP DETECTOR NOTES

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.

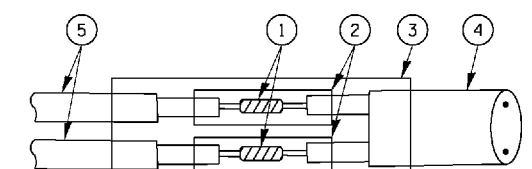


DETECTOR LOOP WIRING SCHEMATIC

- 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.

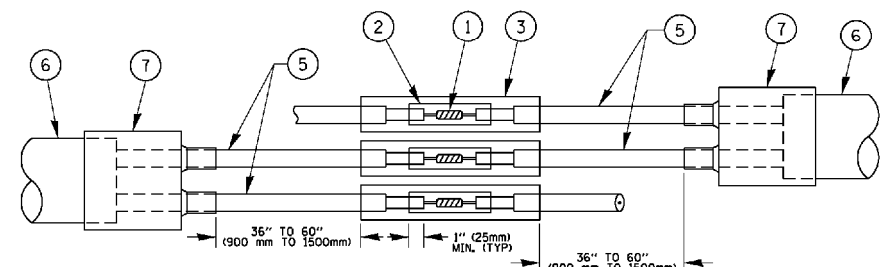


DETAIL "A"
LOOP-TO-LOOP SPLICE

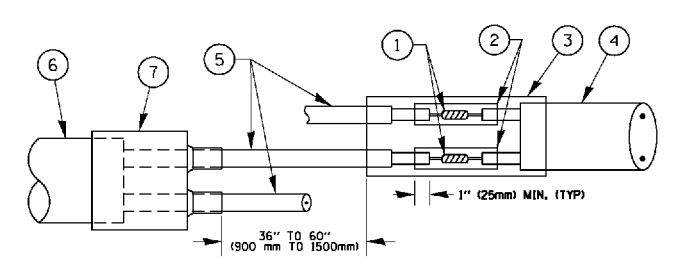


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

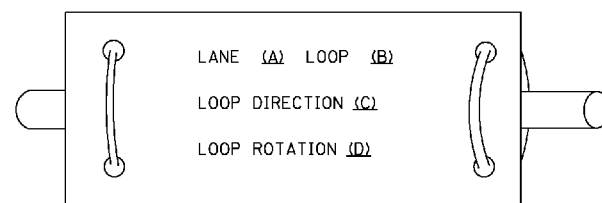


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

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.

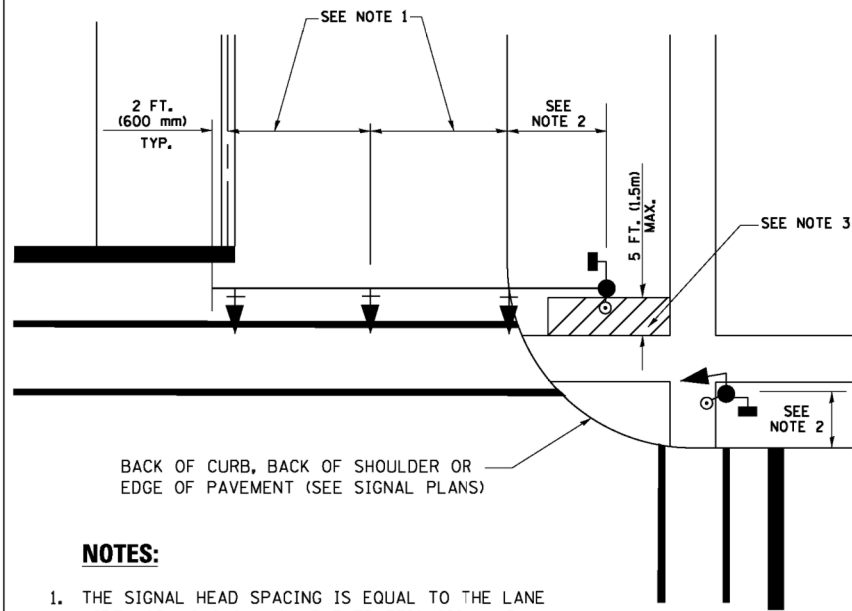
- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.

- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PREFORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO-CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

FILE NAME =	USER NAME = faotemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\faotemj\00188315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA.	18-00480-00-TL	MCHENRY	132	27
		CHECKED - DAD	REVISED -					TS-05		CONTRACT NO.	61H50
		DATE - 10-28-09	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

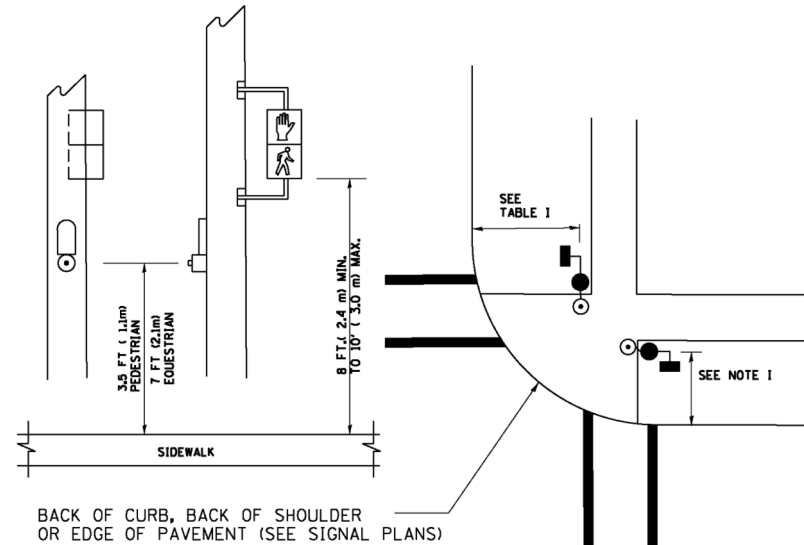
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
*See Special Traffic Signal Detail Sheet for signal head alignment.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

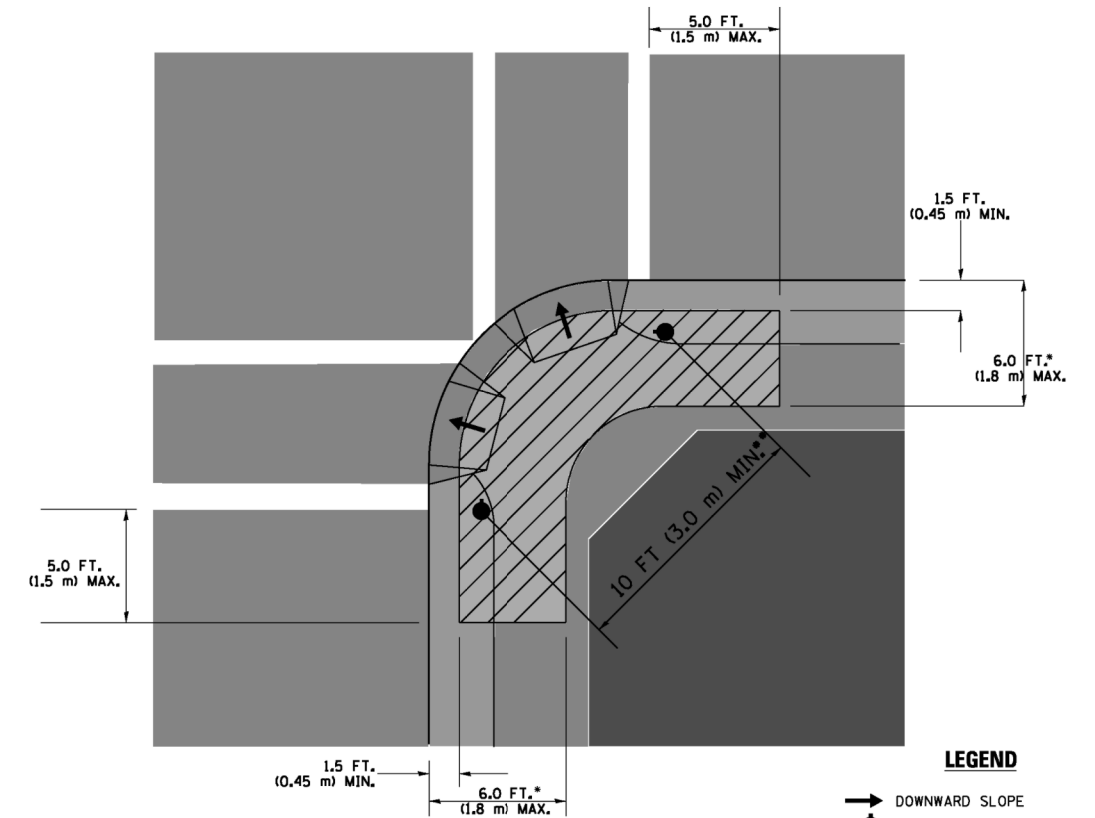
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

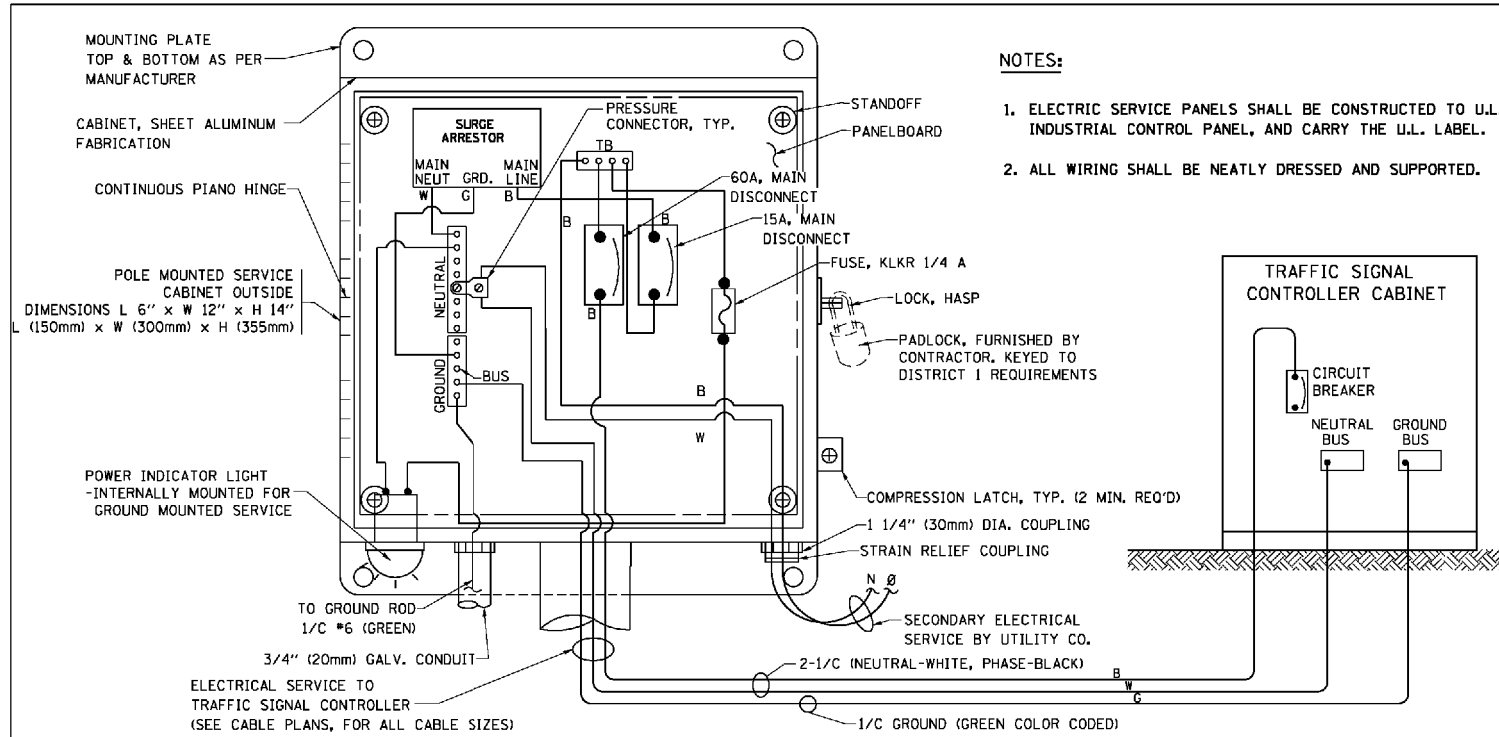
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

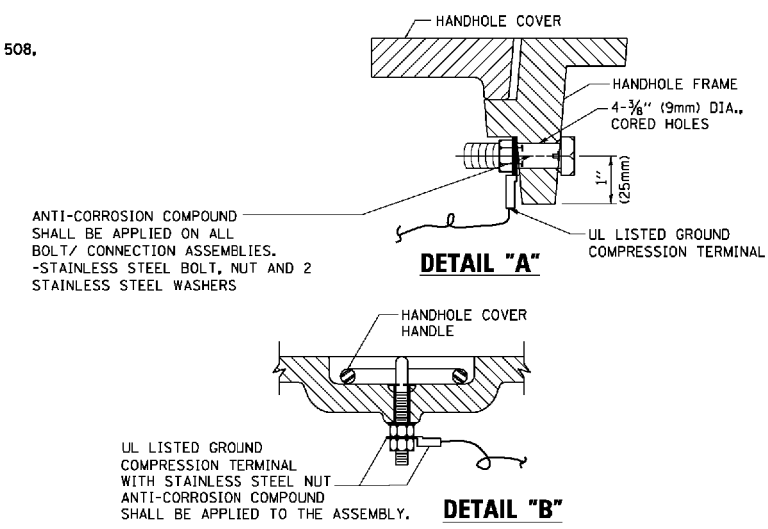
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

TS SHT NO. 3

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\footemj\d0108315\ts05.dgn	DRAWN - BCK	REVISED -				18-00480-00-TL	MCHENRY	132	28	
PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -				TS-05		CONTRACT NO. 61H50		
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -				SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

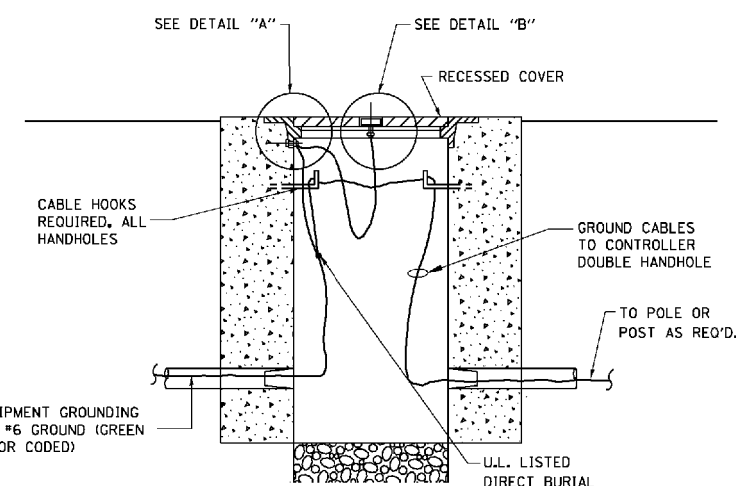


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

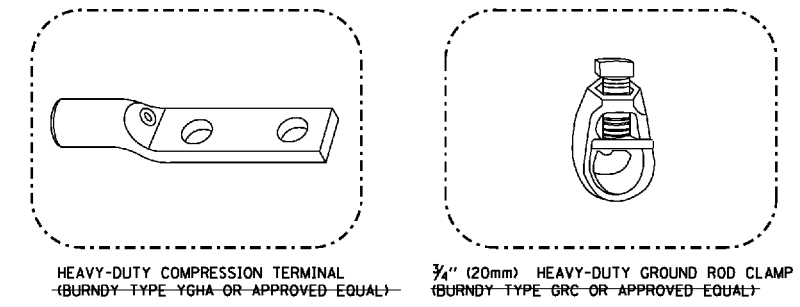


NOTES:
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

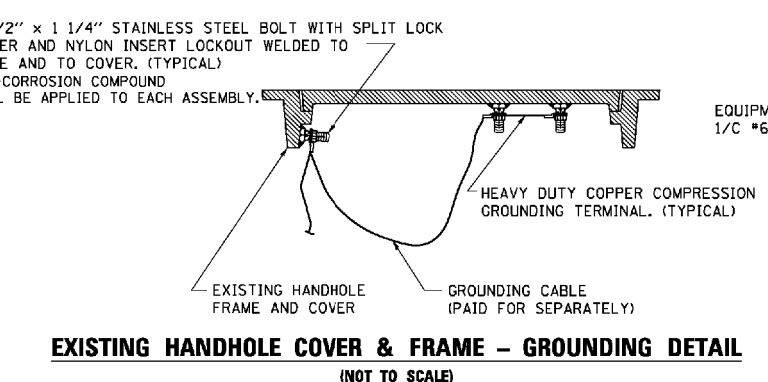


HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

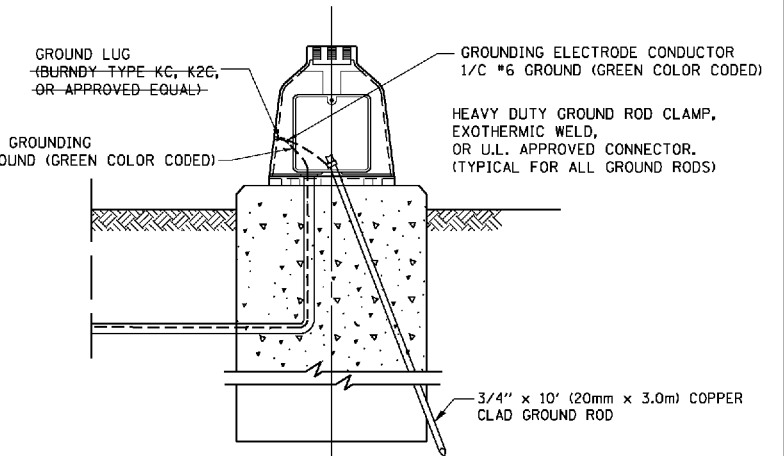


NOTES:

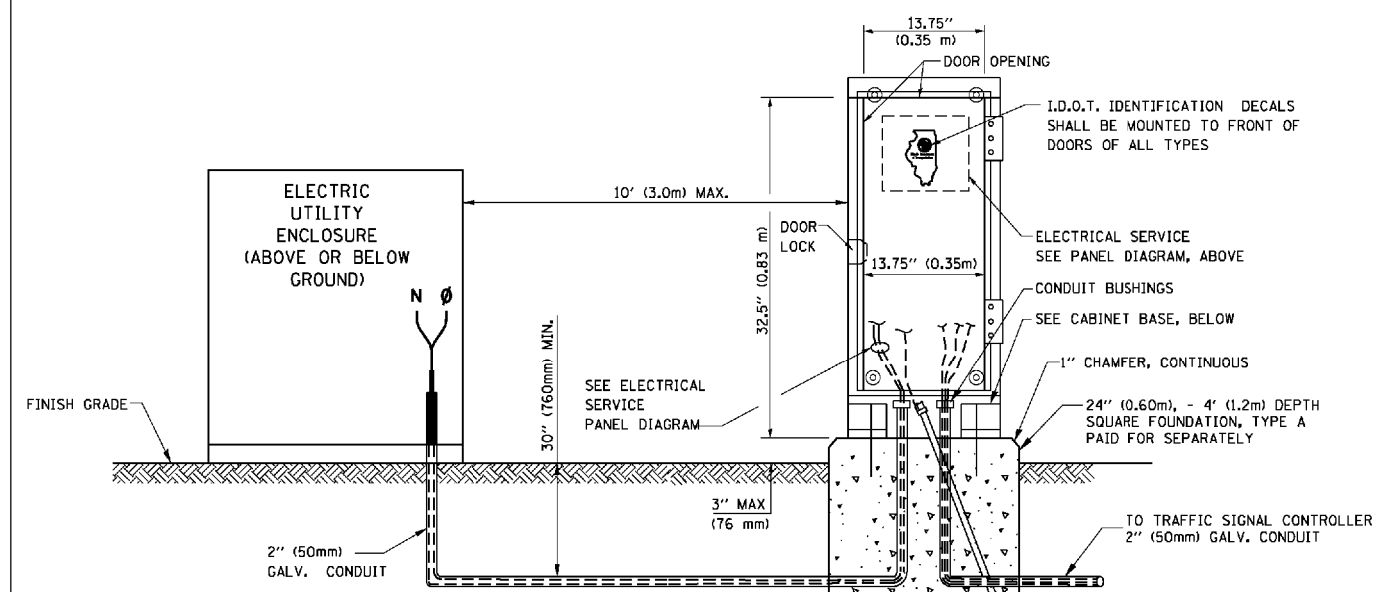
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

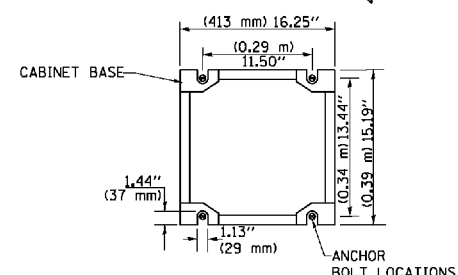


MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)



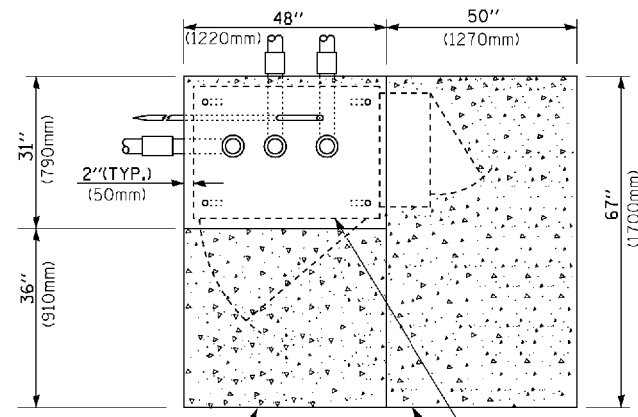
SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

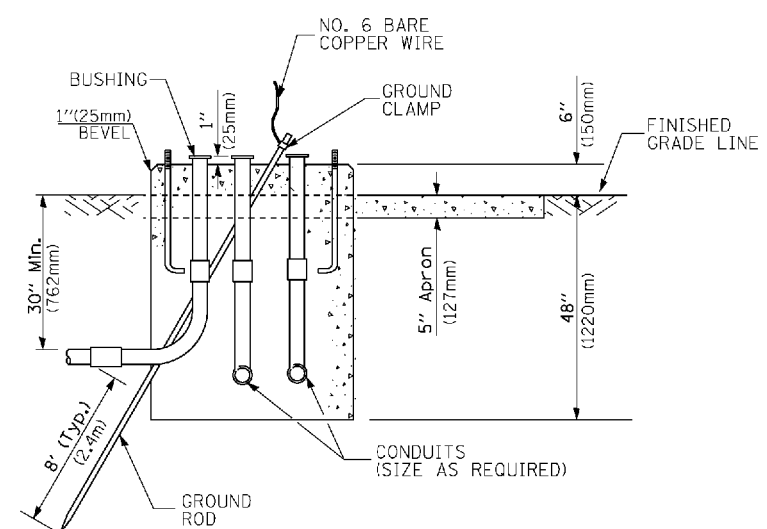


TS SHT NO. 4

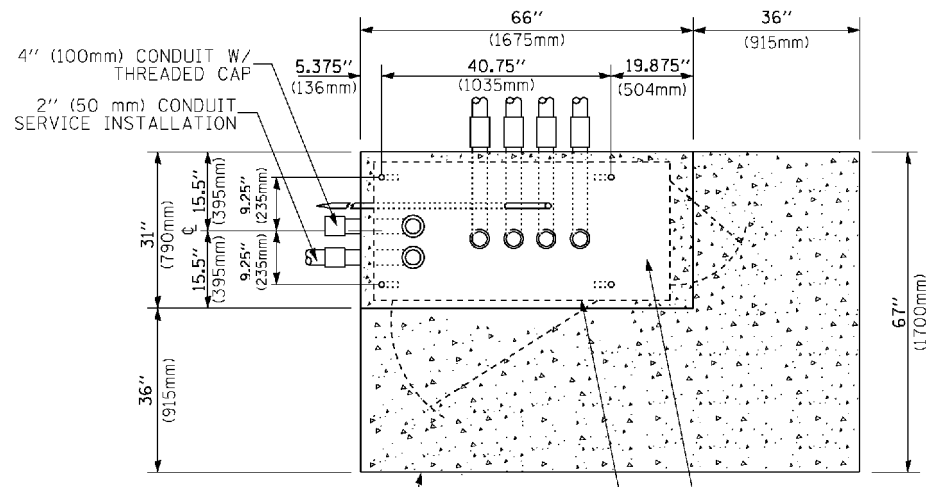
FILE NAME =	USER NAME = faotemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\faotemj\00188315\ts05.dgn	DRAWN - BCK	REVISED -	REVISED -			18-00480-00-TL	MCHENRY	132	29	
PLOT SCALE = 50.0000' / in.	CHECKED - DAD	REVISED -	REVISED -			TS-05	CONTRACT NO.	61H50		
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
SCALE: NONE		SHEET NO. 4 OF 7 SHEETS		STA.	TO STA.					



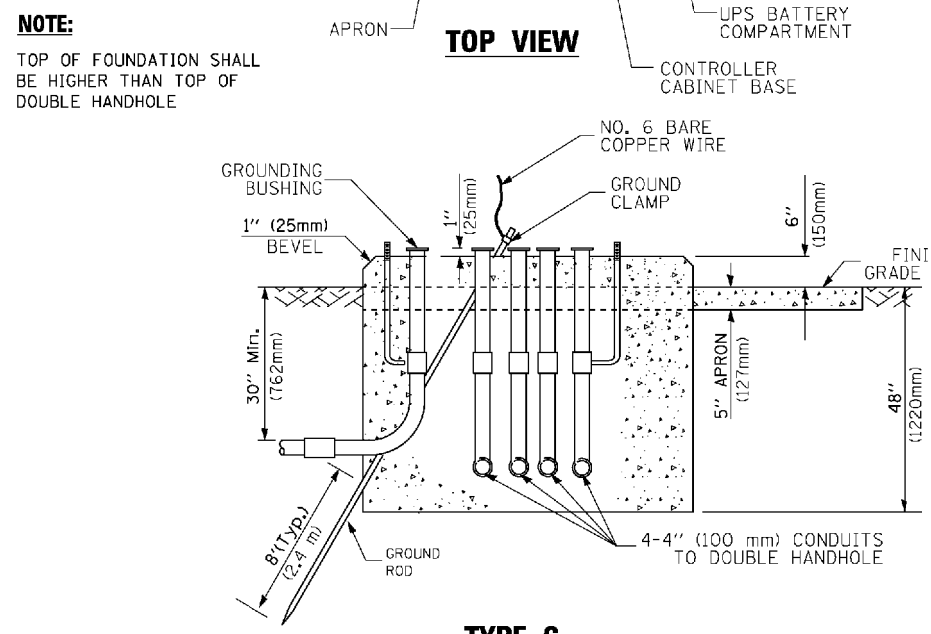
TOP VIEW



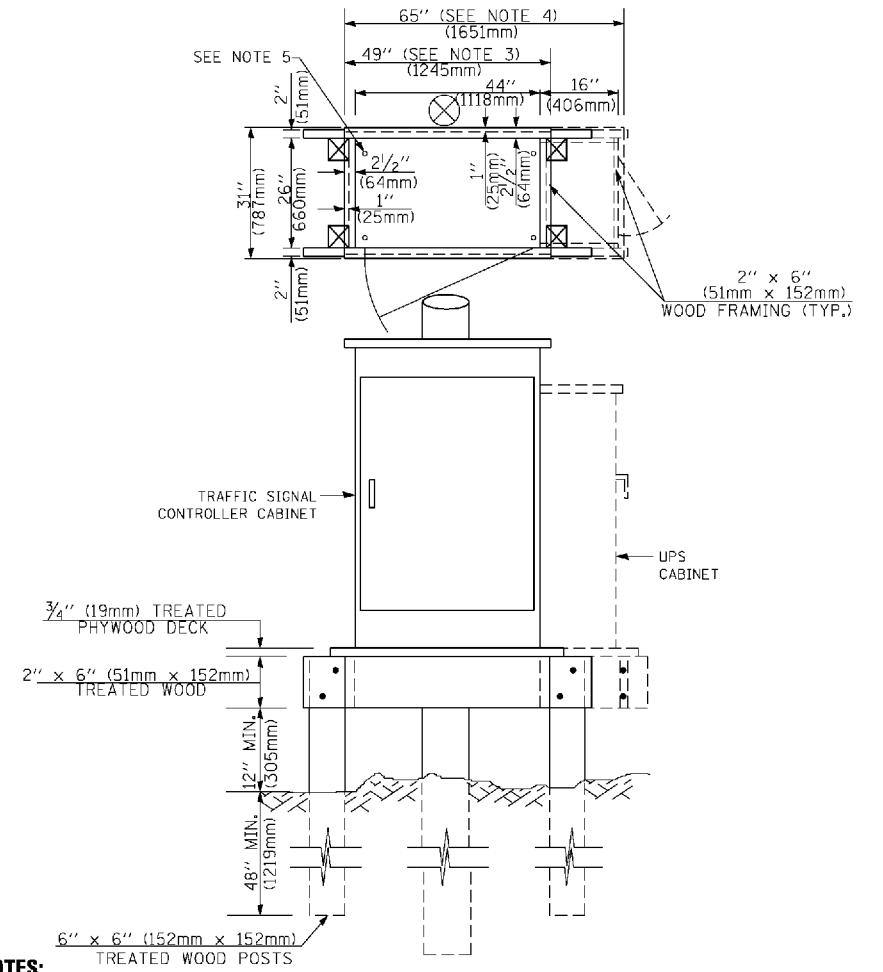
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

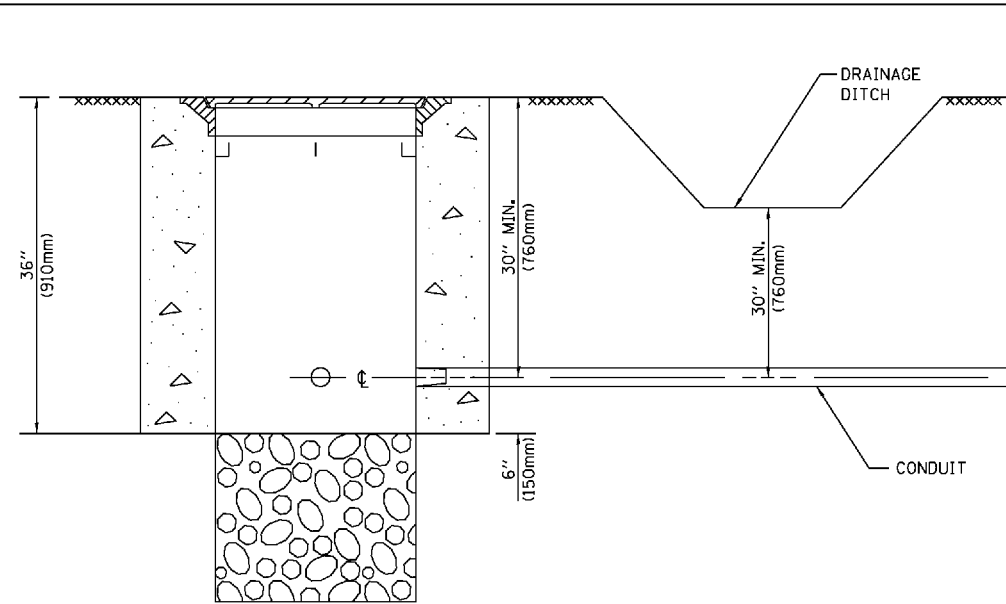
NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (UCS) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5

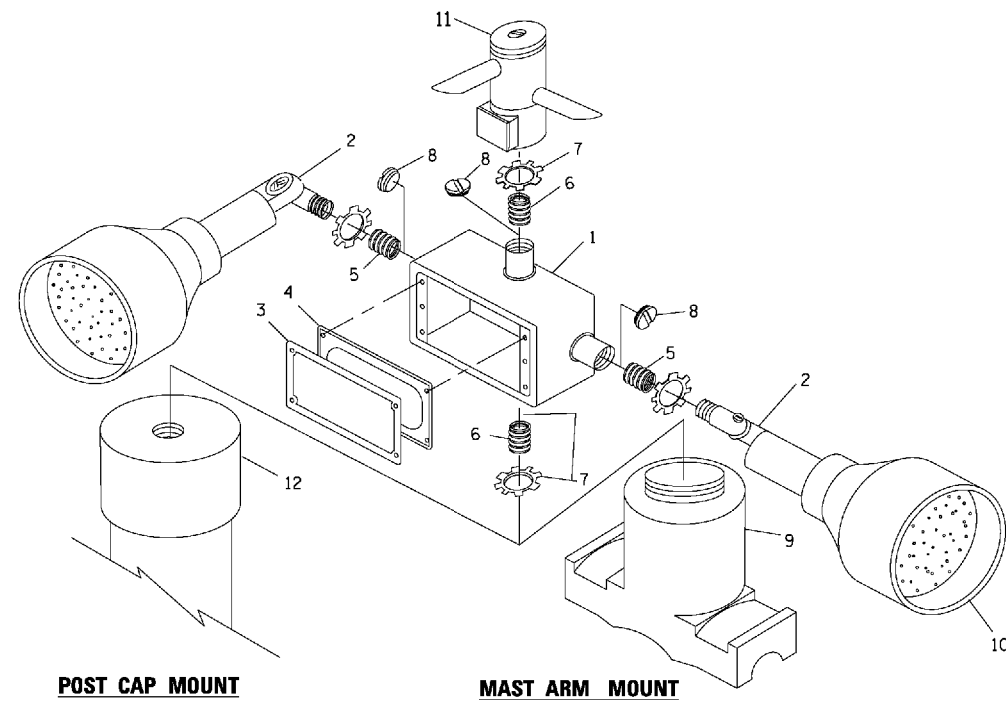
FILE NAME =	USER NAME = faotemj	DESIGNED - DAG	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE		F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\faotemj\0108315\ts05.dgn		DRAWN - BCK	REVISED -		STANDARD TRAFFIC SIGNAL DESIGN DETAILS			18-00480-00-TL	MCHENRY	132	30
		CHECKED - DAD	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TS-05		CONTRACT NO.	61H50
		DATE - 10-28-09	REVISED -				TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



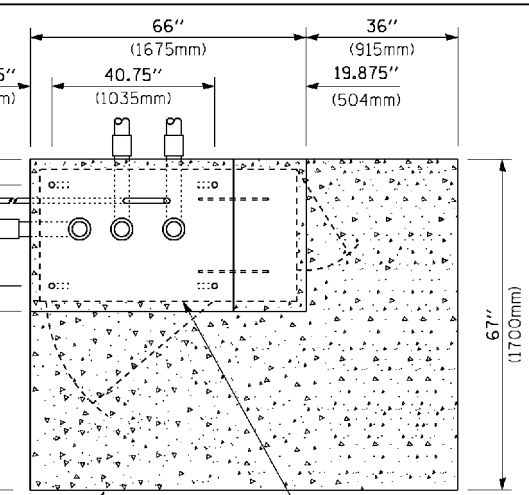
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

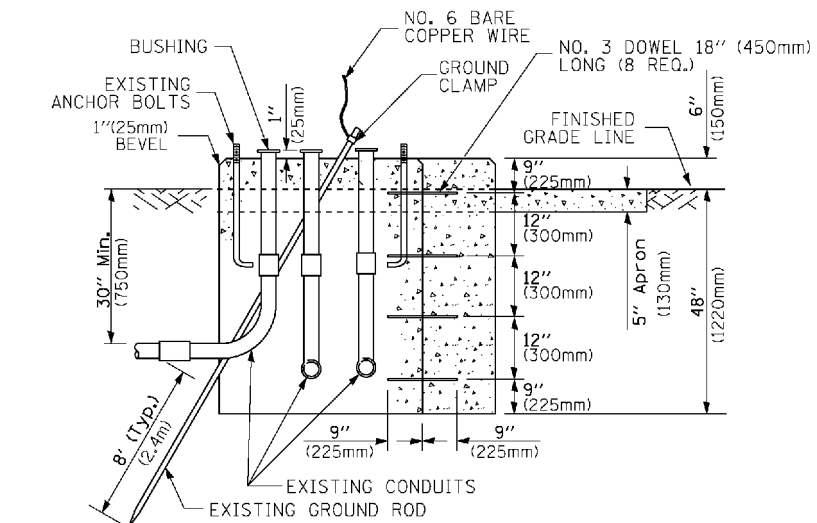
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

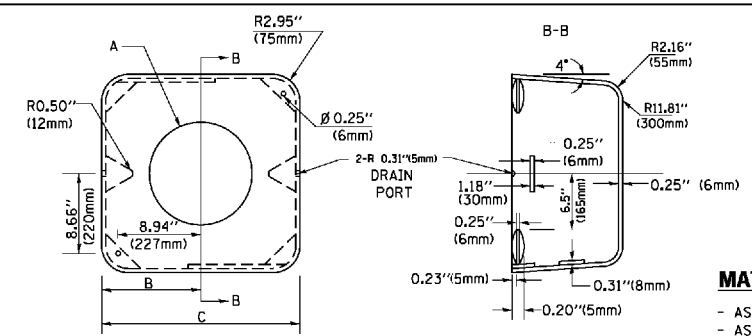


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

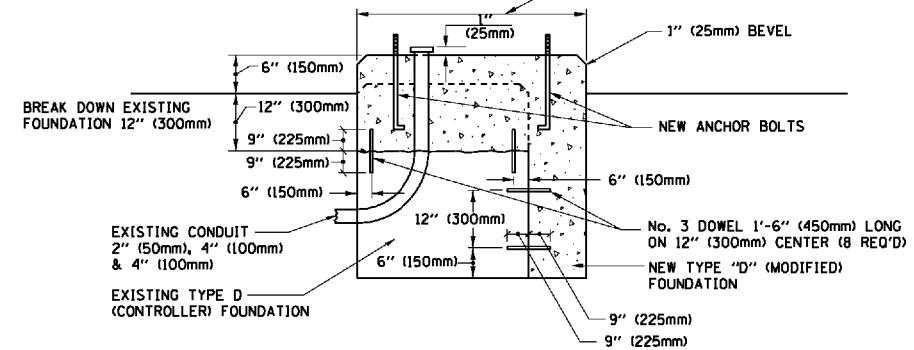
SHROUD

NOTES:

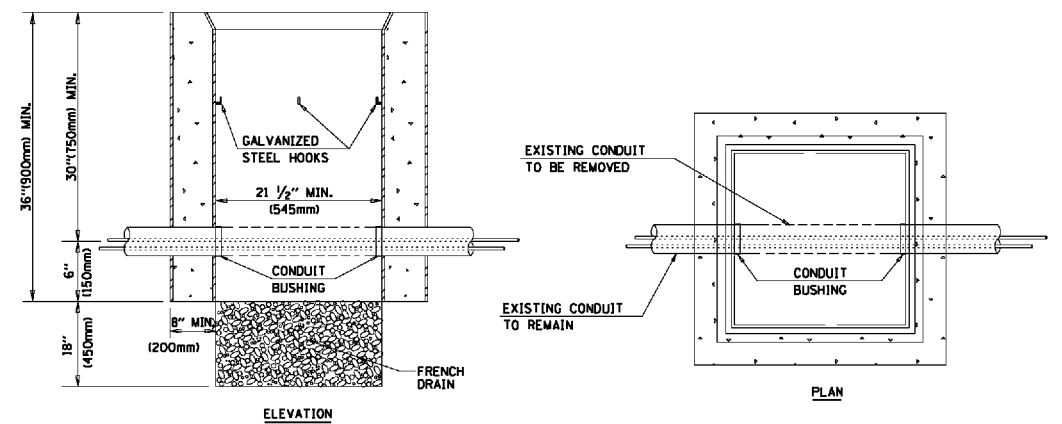
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

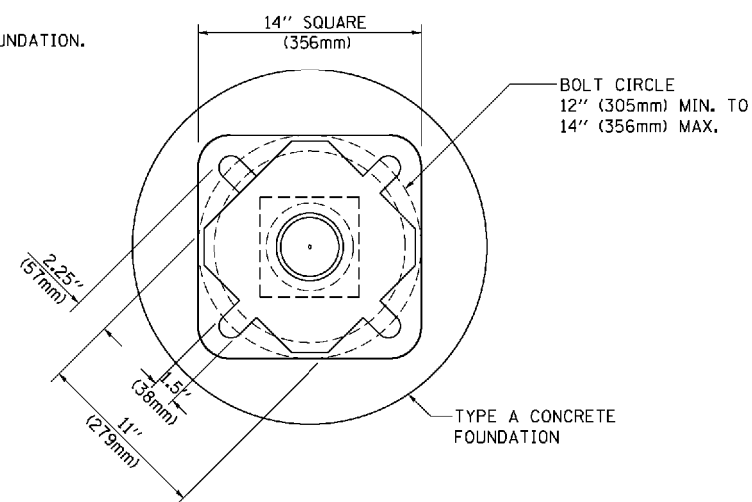
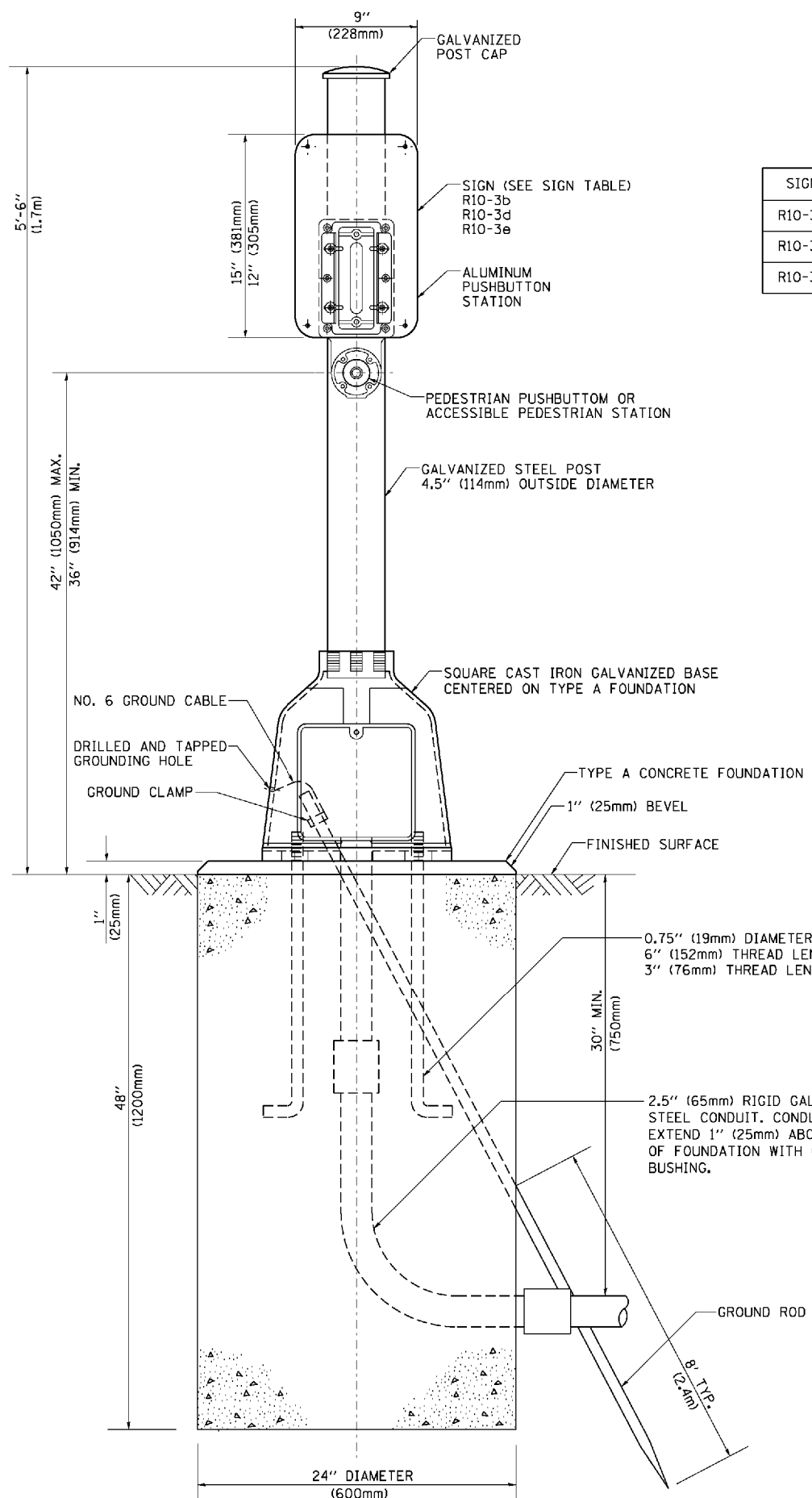
1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



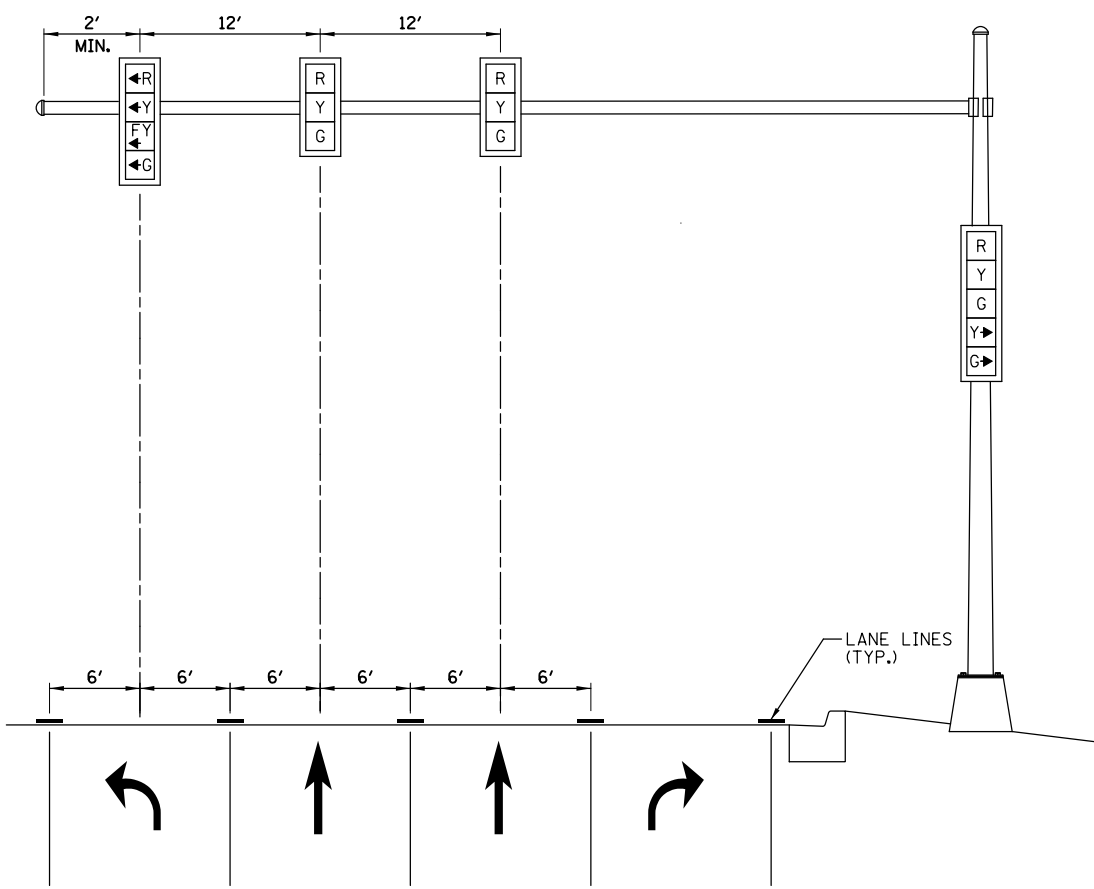
BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

TS SHT NO. 7

FILE NAME =	USER NAME = faatemj	DESIGNED - DAG	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\faatemj\00188315\ts05.dgn		DRAWN - GND	REVISED -		SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.	18-00480-00-TL	McHENRY	132	32
PLOT SCALE = 50.0000' / 1"		CHECKED - DAD	REVISED -					TS-05		CONTRACT NO. 61H50		
PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

DATE	BY	SURVEYED	ALIGNED	CHECKED
DATE	BY	GRADES	CHECKED	STRUCTURE
DATE	BY	NOTES	NOTATION	OK/NO
DATE	BY	PLAN	NOTE BOOK	NO.
DATE	BY	PROFILE	NOTE BOOK	NO.



STANDARD MAST ARM SIGNAL HEAD ALIGNMENT
(NOT TO SCALE)



- NOTES:**
- COLOR:
BACKGROUND: WHITE
MESSAGE: BLACK
 - LINE 1 IS SERIES C
LINE 2, 4 AND 5 ARE SERIES D
LINE 3 IS SERIES B
 - ALL DIMENSIONS SHOWN ARE IN INCHES

TS SHT NO. 8

FILE NAME = TS-Sht_Detail-01	USER NAME = pandrews	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SPECIAL TRAFFIC SIGNAL DETAIL SHEET			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 2"	DRAWN - FPB	REVISED -		SCALE: NOT TO SCALE	SHEET NO.	OF	SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132 33
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -					CONTRACT NO. 61H50					
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT					

REMOVAL AND RELOCATION NOTES:

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

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UPS CABINET (COMPLETE)
- 4 EACH LUMINAIRE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

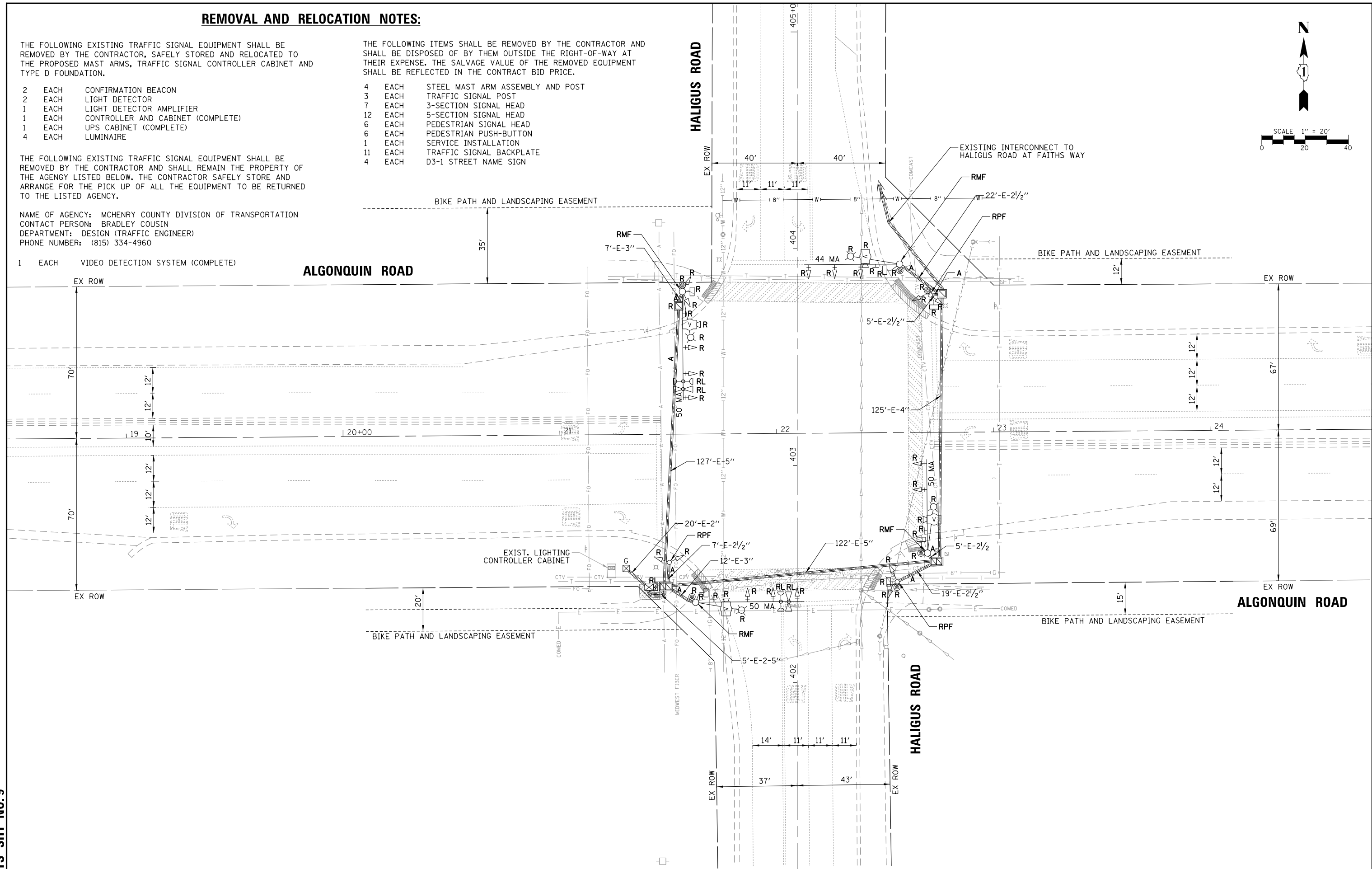
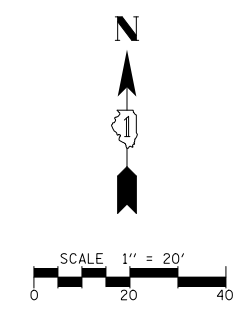
NAME OF AGENCY: MCHENRY COUNTY DIVISION OF TRANSPORTATION
 CONTACT PERSON: BRADLEY COUSIN
 DEPARTMENT: DESIGN (TRAFFIC ENGINEER)
 PHONE NUMBER: (815) 334-4960

- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)

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 THE CONTRACT BID PRICE.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 7 EACH 3-SECTION SIGNAL HEAD
- 12 EACH 5-SECTION SIGNAL HEAD
- 6 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 11 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH D3-1 STREET NAME SIGN

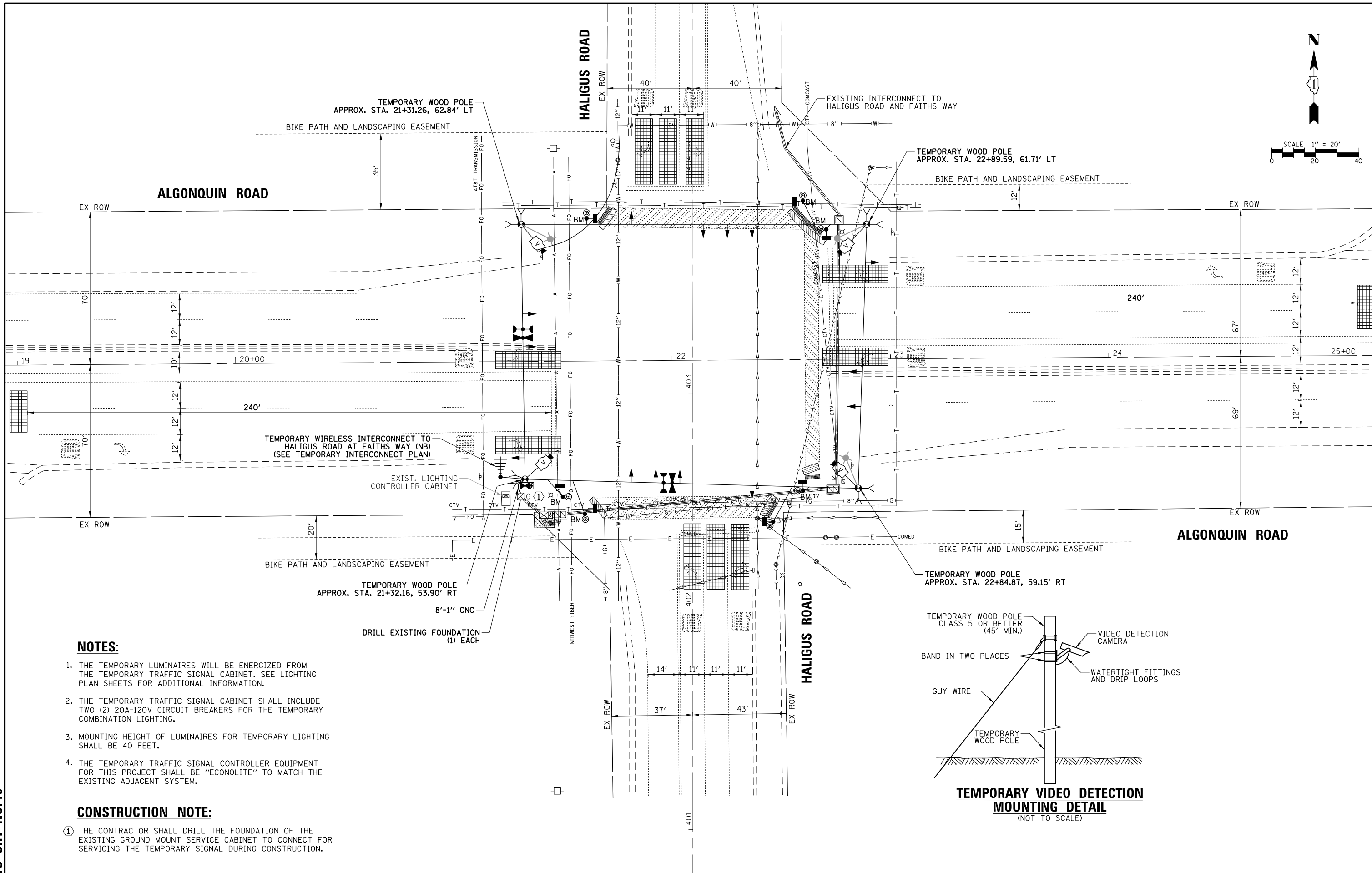
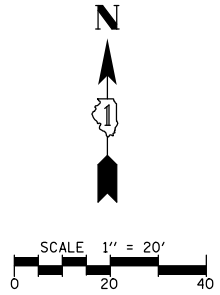
DATE	BY	SURVEYED	ALIGNED	CHECKED
DATE	BY	GRADES	CHECKED	
DATE	BY	STRUCTURE	NOTATIONS	OK/NO
DATE	BY	PLAN	NOTE BOOK	NO.
DATE	BY	PROFILE	NOTE BOOK	NO.



TS SHT NO.9

FILE NAME = TSI_Haligus-01.REM	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN ALGONQUIN ROAD AT HALIGUS ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48"	DRAWN - FPB	REVISED -			18-00480-00-TL	MCHENRY	132	34	
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -			CONTRACT NO. 61H50				
		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED
		RT. OF WAY	FILE NAME				RT. OF WAY	FILE NAME	
PLAN	NOTE BOOK NO.	NO.			PROFILE	NOTE BOOK NO.	NO.		



NOTES:

1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
2. THE TEMPORARY TRAFFIC SIGNAL CABINET SHALL INCLUDE TWO (2) 20A-120V CIRCUIT BREAKERS FOR THE TEMPORARY COMBINATION LIGHTING.
3. MOUNTING HEIGHT OF LUMINAIRES FOR TEMPORARY LIGHTING SHALL BE 40 FEET.
4. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

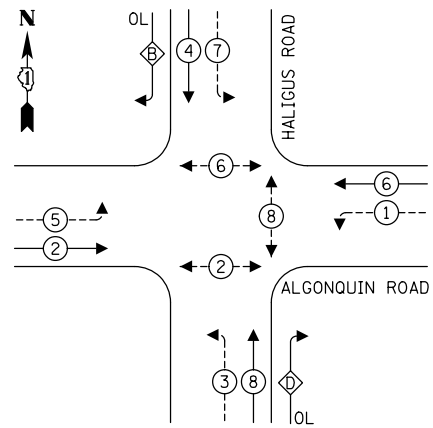
- ① THE CONTRACTOR SHALL DRILL THE FOUNDATION OF THE EXISTING GROUND MOUNT SERVICE CABINET TO CONNECT FOR SERVICING THE TEMPORARY SIGNAL DURING CONSTRUCTION.

TS SHT NO.10

FILE NAME = TSL_Haligus-02.TMP	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN ALGONQUIN ROAD AT HALIGUS ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48"	DRAWN - FPB	REVISED -			18-00480-00-TL	MCHENRY	132	35	
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -			CONTRACT NO. 61H50				
		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 GRADES CHECKED: _____ RT. OF WAY CHECKED: _____
 PLAN NOTE BOOK NO.: _____
 DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 GRADES CHECKED: _____ RT. OF WAY CHECKED: _____
 PROFILE NOTE BOOK NO.: _____
 DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 GRADES CHECKED: _____ RT. OF WAY CHECKED: _____
 TS SHT NO. 11

TEMPORARY CONTROLLER SEQUENCE



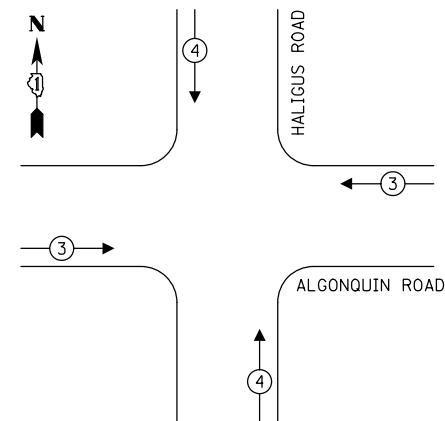
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	24	10	10	24.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	3	250	50	375.0
TOTAL =				960.6

ENERGY COSTS TO:

VILLAGE OF HUNTLEY
 PUBLIC WORKS AND ENGINEERING
 10987 Main Street, Huntley, IL 60142

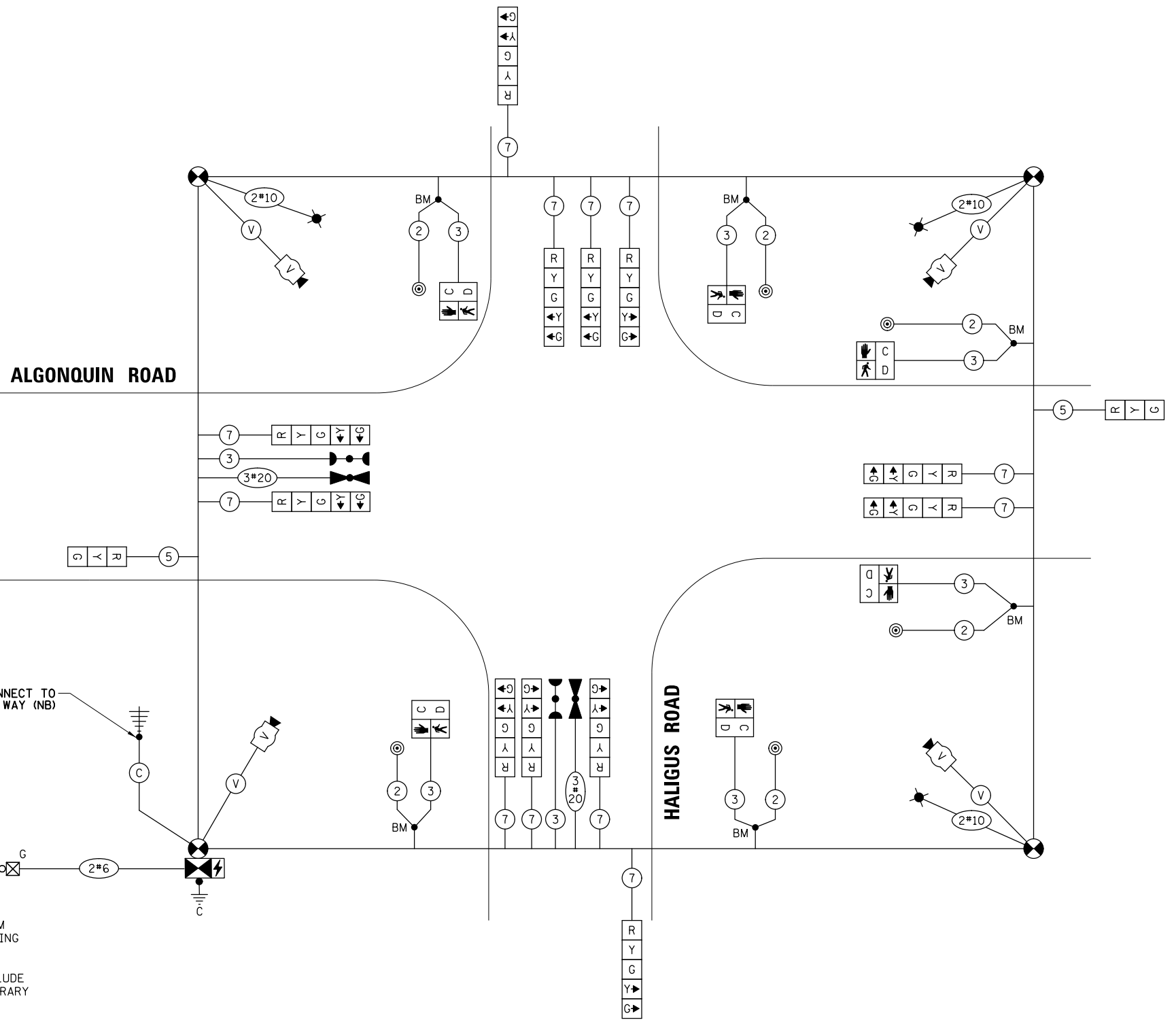
ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: NEW PHONE
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

NOTES:

1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
2. THE TEMPORARY TRAFFIC SIGNAL CABINET SHALL INCLUDE TWO (2) 20A-120V CIRCUIT BREAKERS FOR THE TEMPORARY COMBINATION LIGHTING.
3. MOUNTING HEIGHT OF LUMINAIRES FOR TEMPORARY LIGHTING SHALL BE 40 FEET.
4. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- 1 THE CONTRACTOR SHALL DRILL THE FOUNDATION OF THE EXISTING GROUND MOUNT SERVICE CABINET TO CONNECT FOR SERVICING THE TEMPORARY SIGNAL DURING CONSTRUCTION.



TEMPORARY CABLE PLAN
(NOT TO SCALE)

FILE NAME = TSI_Haligus-03.TCB	USER NAME = pandrows	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 ALGONQUIN ROAD AT HALIGUS ROAD

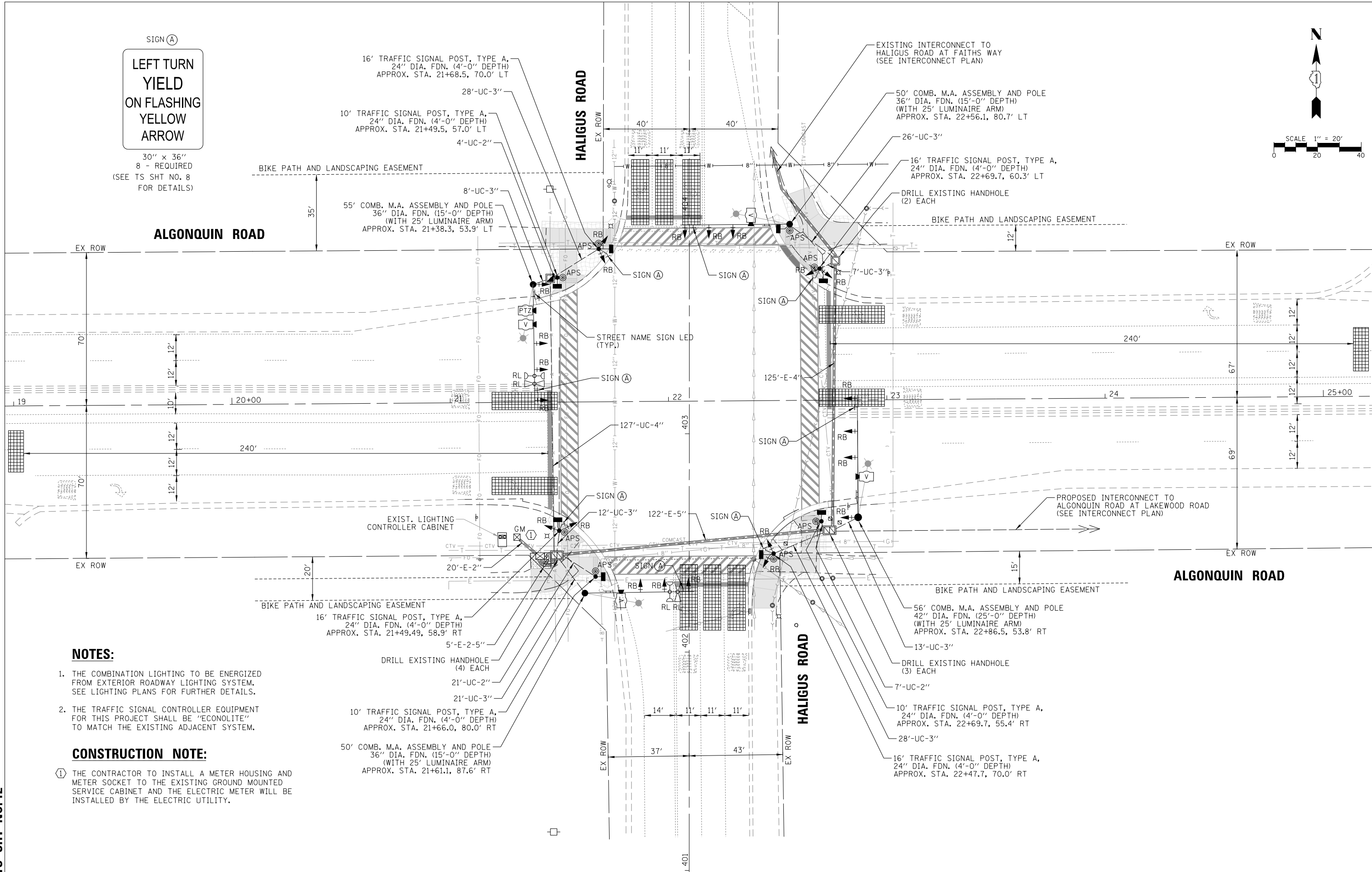
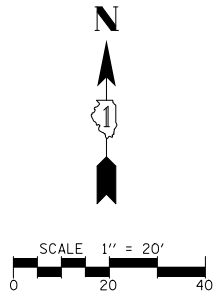
SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	36
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H50	

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	FILE NAME
DATE	BY	SURVEYED	GRADES	CHECKED	BLM.	NOTED	STRUCTURE
DATE	BY	PROFILE	NOTE BOOK	NO.	NO.	NO.	NO.

TS SHT NO.12

SIGN (A)
**LEFT TURN
 YIELD
 ON FLASHING
 YELLOW
 ARROW**
 30" x 36"
 8 - REQUIRED
 (SEE TS SHT NO. 8
 FOR DETAILS)



NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM EXTERIOR ROADWAY LIGHTING SYSTEM. SEE LIGHTING PLANS FOR FURTHER DETAILS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- 1 THE CONTRACTOR TO INSTALL A METER HOUSING AND METER SOCKET TO THE EXISTING GROUND MOUNTED SERVICE CABINET AND THE ELECTRIC METER WILL BE INSTALLED BY THE ELECTRIC UTILITY.

FILE NAME =	USER NAME = pandrows
TSL-Haligus-04_M0D	
DESIGNED - TFS	REVISED -
DRAWN - FPB	REVISED -
CHECKED - GMZ	REVISED -
DATE -	REVISED -
PLOT DATE = 1/12/2022	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

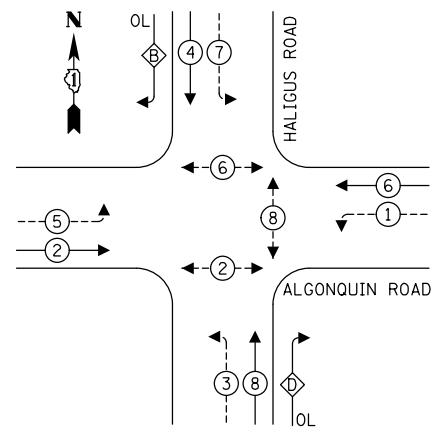
TRAFFIC SIGNAL MODERNIZATION PLAN
 ALGONQUIN ROAD AT HALIGUS ROAD

SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

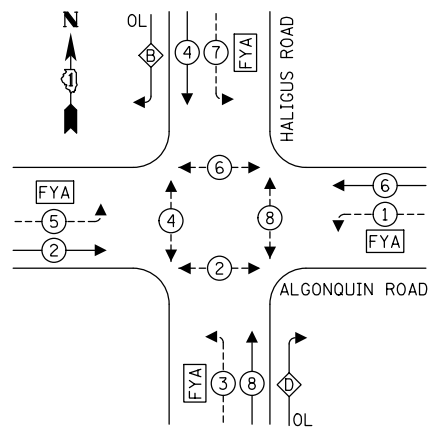
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	37
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61H50	

BY: _____ DATE: _____
 SURVEYED _____ ALIGNED _____ CHECKED _____
 PLAN NOTE BOOK NO. _____ RT. OF WAY CHECKED _____
 NO. _____ SADD FILE NAME _____
 PROFILE SURVEYED _____ GRADES CHECKED _____
 NOTE BOOK NO. _____ STRUCTURE NOTATIONS OKWD

EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE

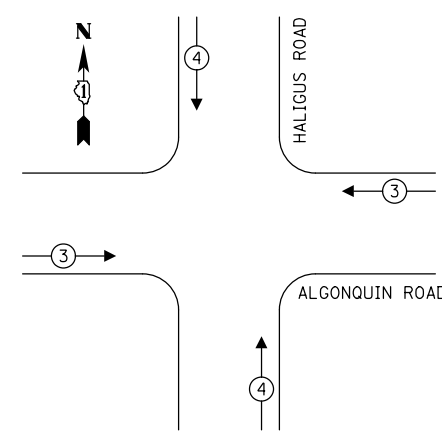


- LEGEND:**
- ← (⊙) — PROTECTED PHASE
 - ← (⊙) — PROTECTED/PERMITTED PHASE
 - ← (⊙) — PEDESTRIAN PHASE
 - ← (⊙) — OVERLAP
 - FYA — FLASHING YELLOW ARROW

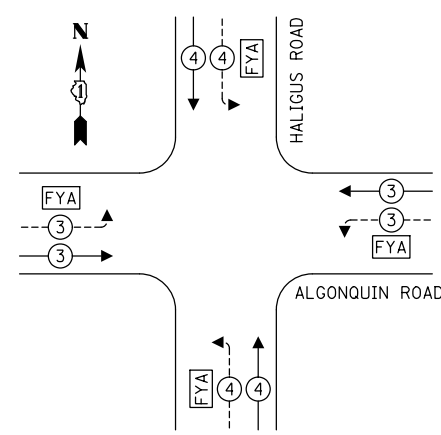
RIGHT TURN OVERLAP PHASE DESIGNATION:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

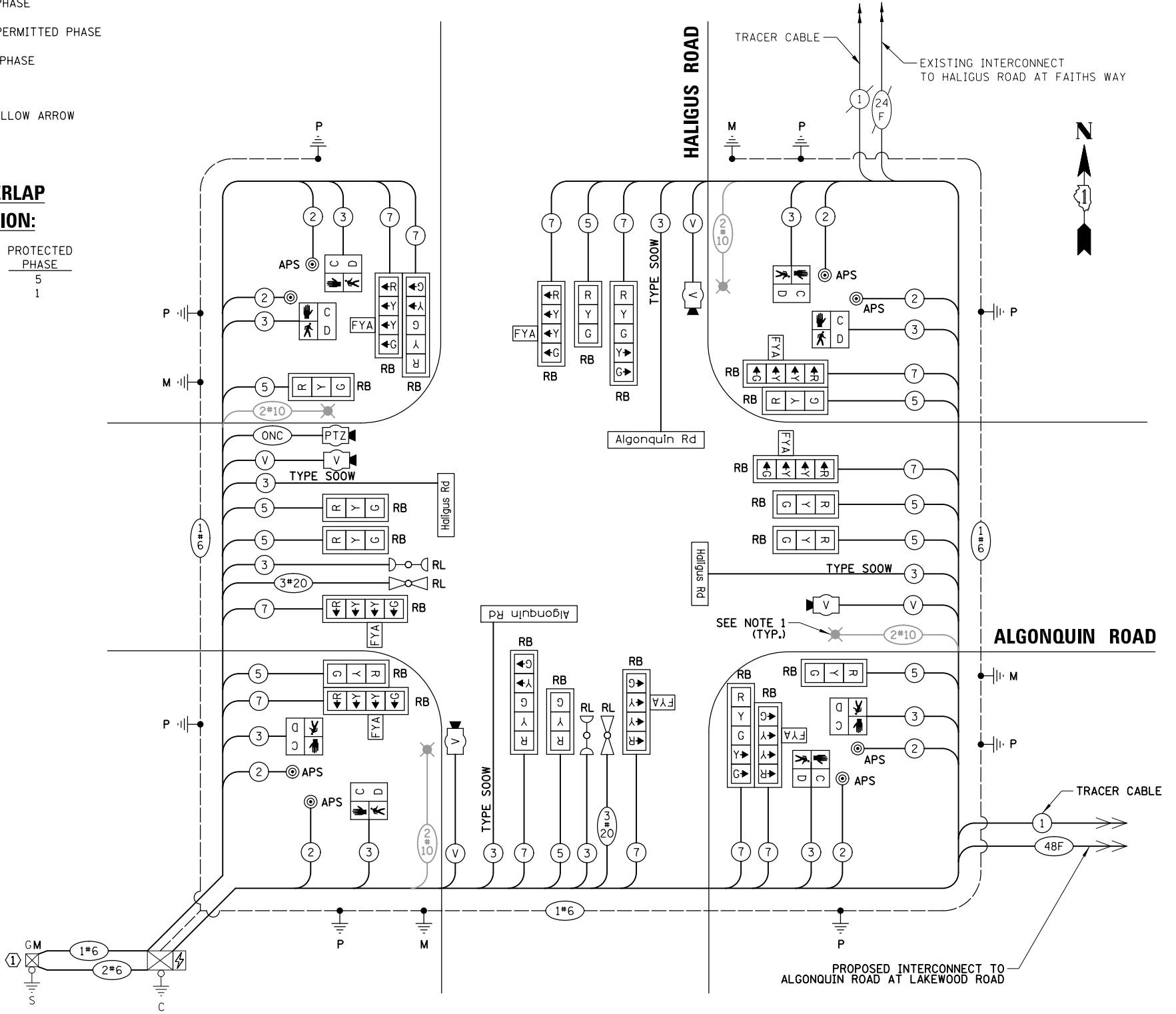
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	24	10	10	24.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	190	50	-
TOTAL =				629.6

NOTES:

- THE COMBINATION LIGHTING TO BE ENERGIZED FROM EXTERIOR ROADWAY LIGHTING SYSTEM. SEE LIGHTING PLANS FOR FURTHER DETAILS.
- THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- THE CONTRACTOR TO INSTALL A METER HOUSING AND METER SOCKET TO THE EXISTING GROUND MOUNTED SERVICE CABINET AND THE ELECTRIC METER WILL BE INSTALLED BY THE ELECTRIC UTILITY.



CABLE PLAN
(NOT TO SCALE)

TS SHT NO.13

ENERGY COSTS TO:
 VILLAGE OF HUNTLEY
 PUBLIC WORKS AND ENGINEERING
 10987 Main Street, Huntley, IL 60142
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

FILE NAME = TSI_Haligus-05-CAB	USER NAME = pandrows	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

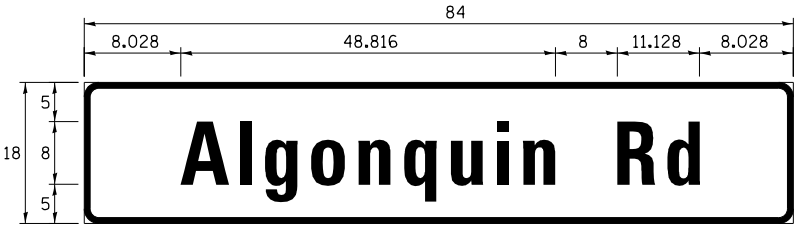
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ALGONQUIN ROAD AT HALIGUS ROAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	38
CONTRACT NO. 61H50				
SCALE: NOT TO SCALE		SHEET NO. OF SHEETS		STA. TO STA.
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

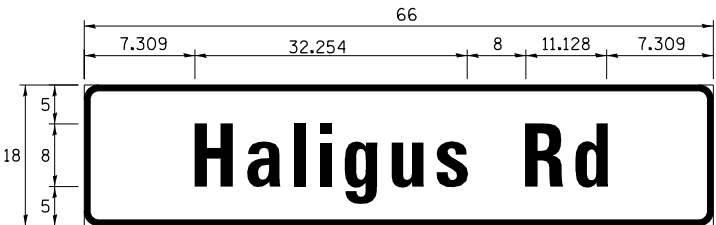
SCHEDULE OF QUANTITIES

LED ILLUMINATED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	10.5	ZZ	2



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

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL DA	28
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	32
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	143
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	127
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1471
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2008
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2122.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2634.5
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	29
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	576
TRAFFIC SIGNAL POST, 10 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	28
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25
DRILL EXISTING HANDHOLE	EACH	9
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, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
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	EACH	22
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
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	7778
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
MODIFY EXISTING SERVICE INSTALLATION	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	346
** ROD AND CLEAN EXISTING CONDUIT	FOOT	500
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	234
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	830
CONDUIT SPLICE	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
LOCATING UNDERGROUND UTILITY	EACH	2
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
ETHERNET SWITCH, TYPE 2	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

**Nominal Quantity to be used as Directed by the Engineer

DATE	BY	DATE	BY
SURVEYED	ALIGNED	CHECKED	DATE
GRADES	NOTED	STRUCTURE	NOTATIONS
NO.			
PLAN	NOTE BOOK	NO.	
SURVEYED	ALIGNED	CHECKED	DATE
GRADES	NOTED	STRUCTURE	NOTATIONS
NO.			

TS SHT NO.14

FILE NAME = TSI_Haligus-06_STN	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES AND MAST ARM MOUNTED STREET NAME SIGN ALGONQUIN ROAD AT HALIGUS ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - FPB	REVISED -		18-00480-00-TL	MCHENRY	132	39				
		CHECKED - GMZ	REVISED -		CONTRACT NO. 61H50							
		DATE -	REVISED -		SCALE: NOT TO SCALE	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

REMOVAL AND RELOCATION 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 THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 5 EACH TRAFFIC SIGNAL POST
- 9 EACH 3-SECTION SIGNAL HEAD
- 10 EACH 5-SECTION SIGNAL HEAD
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 11 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH D3-1 STREET NAME SIGN
- 4 EACH R10-5 "LEFT ON GREEN ARROW ONLY" SIGN

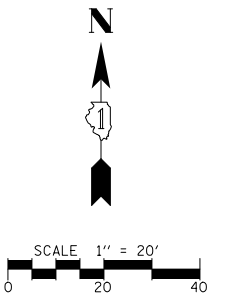
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 5 EACH LUMINAIRE

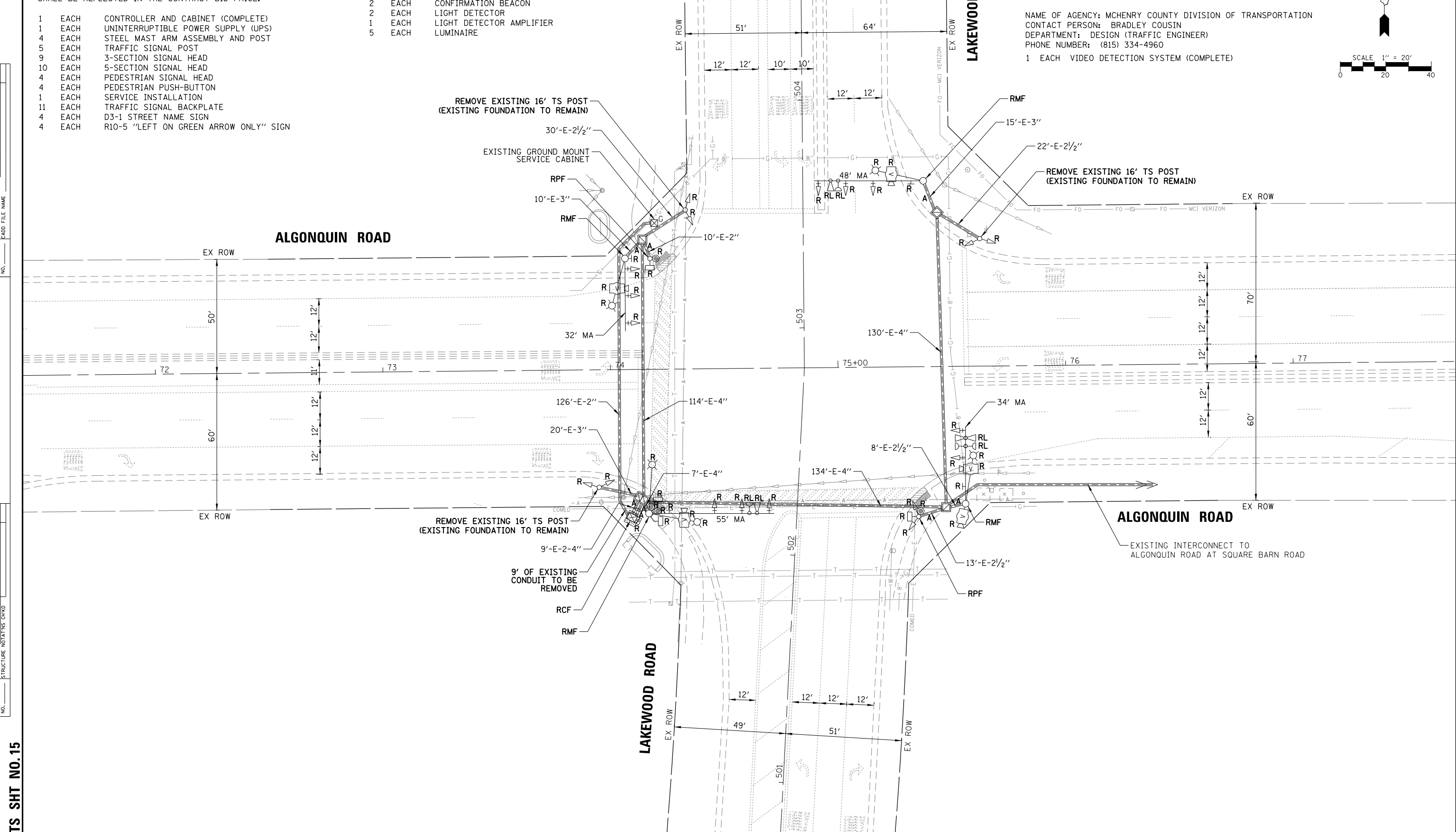
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: MCHENRY COUNTY DIVISION OF TRANSPORTATION
 CONTACT PERSON: BRADLEY COUSIN
 DEPARTMENT: DESIGN (TRAFFIC ENGINEER)
 PHONE NUMBER: (815) 334-4960

- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)



DATE	BY	SURVEYED	ALIGNED	CHECKED
		RT. OF WAY	CHECKED	
		FILE NAME		
DATE	BY	SURVEYED	GRADES	CHECKED
		BLM. NOTED		
		STRUCTURE	NOTATIONS	OK'D
DATE	BY	NOTE BOOK		
		NO.		



TS SHT NO. 15

FILE NAME = TS2.Lakewood-01.REM	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN ALGONQUIN ROAD AT LAKEWOOD ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48"	CHECKED - GMZ	REVISED -			18-00480-00-TL	MCHENRY	132	40	
	PLOT DATE = 1/12/2022	DATE -	REVISED -			CONTRACT NO. 61H50		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	
						SCALE: 1" = 40'	SHEET NO. OF SHEETS STA. TO STA.			

NOTES:

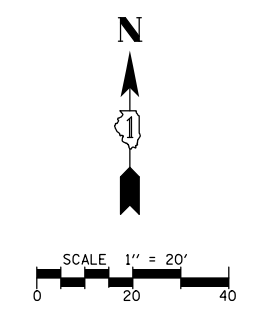
1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
2. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- 1 THE CONTRACTOR SHALL DRILL THE FOUNDATION OF THE EXISTING GROUND MOUNT SERVICE CABINET TO CONNECT FOR SERVICING THE TEMPORARY SIGNAL DURING CONSTRUCTION.

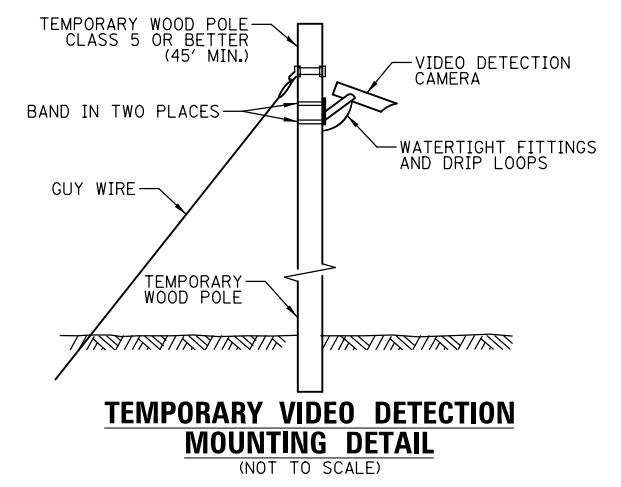
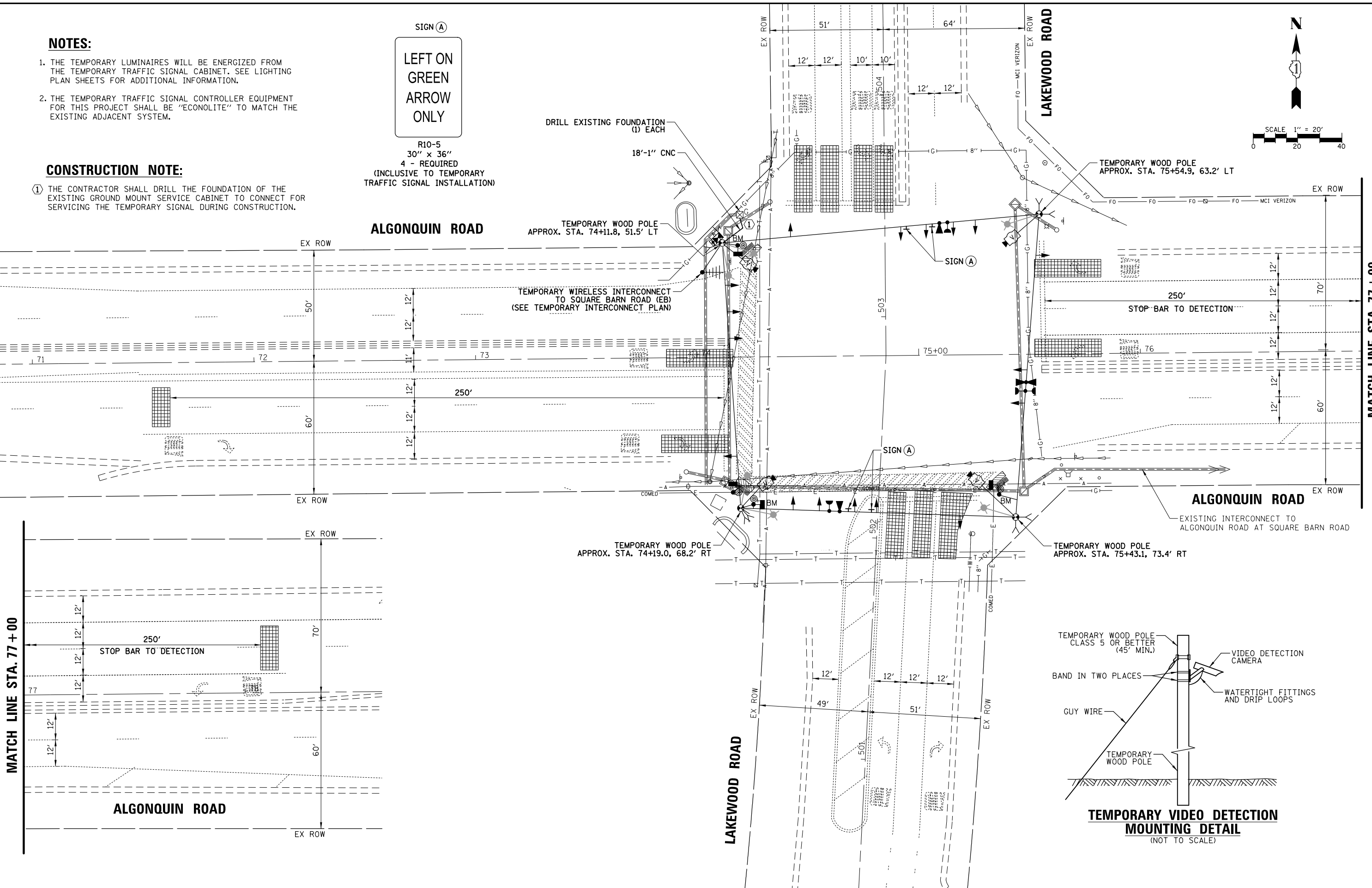


R10-5
30" x 36"
4 - REQUIRED
(INCLUSIVE TO TEMPORARY TRAFFIC SIGNAL INSTALLATION)



DATE	BY	DATE	BY
PLAN	NO.	PROFILE	NO.
SURVEYED	ALIGNED	SURVEYED	ALIGNED
CHECKED	CHECKED	CHECKED	CHECKED
RT. OF WAY	RT. OF WAY	RT. OF WAY	RT. OF WAY
CHECKED	CHECKED	CHECKED	CHECKED
FILE NAME	FILE NAME	FILE NAME	FILE NAME

TS SHT NO. 16



FILE NAME =	USER NAME = pandrews	DESIGNED - TFS	REVISED -
TS2.Lakewood-02.TMP		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

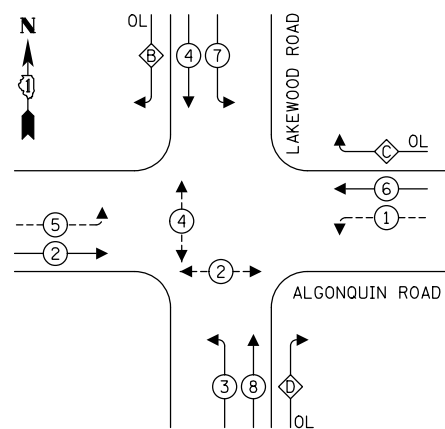
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ALGONQUIN ROAD AT LAKEWOOD ROAD**

SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	41
CONTRACT NO. 61H50				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE: _____ BY: _____
 SURVEYED _____
 ALIGNED _____
 CHECKED _____
 RT. OF WAY CHECKED _____
 FILE NAME _____
 DATE: _____ BY: _____
 SURVEYED _____
 GRADES CHECKED _____
 BLM. NOTED _____
 STRUCTURE NOTATIONS OKWD _____
 DATE: _____ BY: _____
 SURVEYED _____
 GRADES CHECKED _____
 BLM. NOTED _____
 STRUCTURE NOTATIONS OKWD _____

TEMPORARY CONTROLLER SEQUENCE



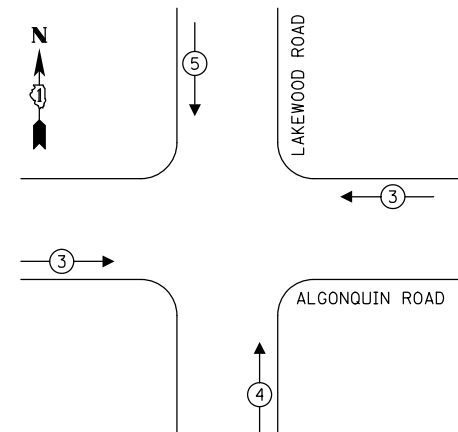
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

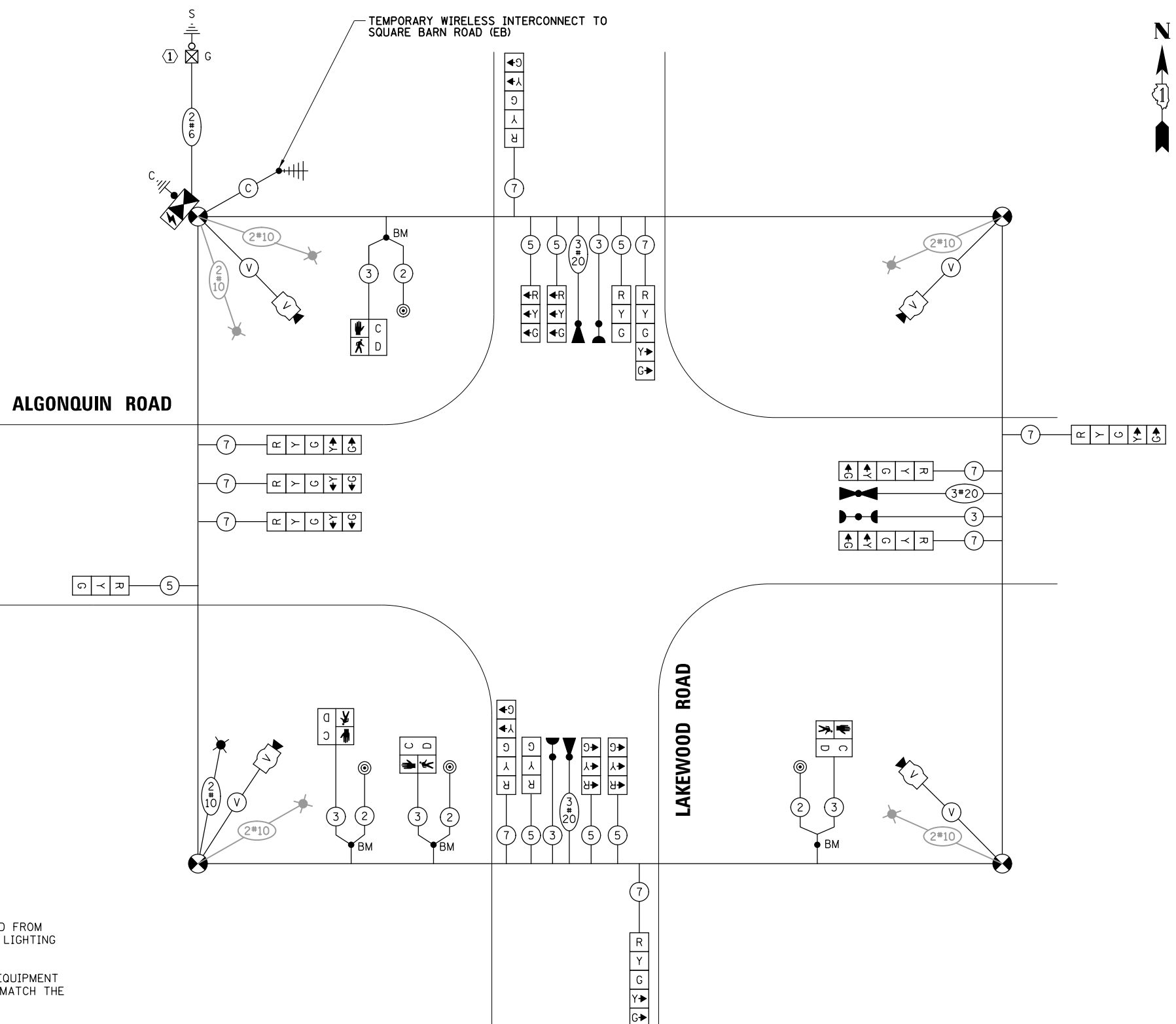
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	6	250	50	750.0
TOTAL =				1267.8

NOTES:

- THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
- THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- THE CONTRACTOR SHALL DRILL THE FOUNDATION OF THE EXISTING GROUND MOUNT SERVICE CABINET TO CONNECT FOR SERVICING THE TEMPORARY SIGNAL DURING CONSTRUCTION.



TEMPORARY CABLE PLAN

(NOT TO SCALE)

TS SHT NO. 17

ENERGY COSTS TO:
 VILLAGE OF HUNTLEY
 PUBLIC WORKS AND ENGINEERING
 10987 Main Street, Huntley, IL 60142
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: NEW PHONE
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

FILE NAME = TS2.Lakewood-03.TCB	USER NAME = pandrews	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
 AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 ALGONQUIN ROAD AT LAKEWOOD ROAD

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	42
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 61H50

NOTES:

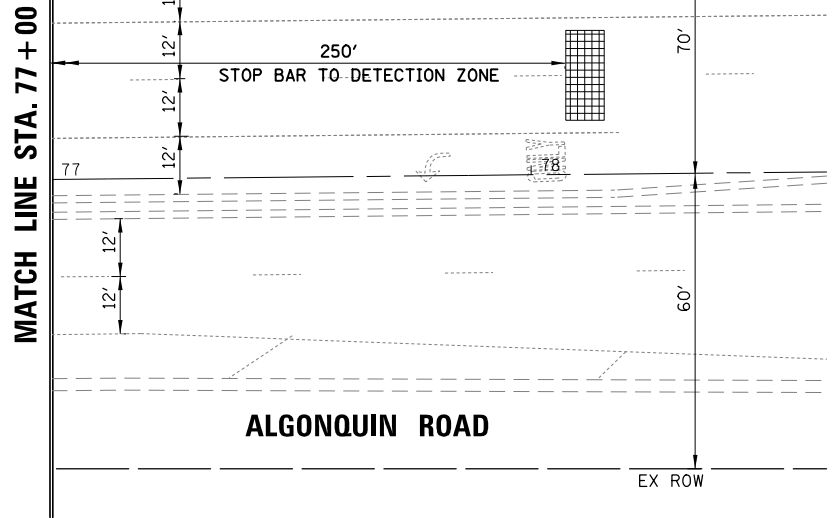
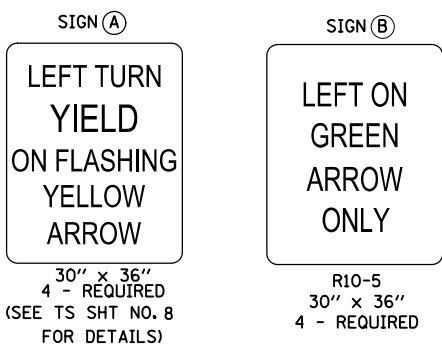
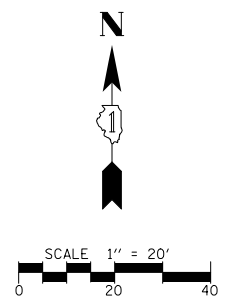
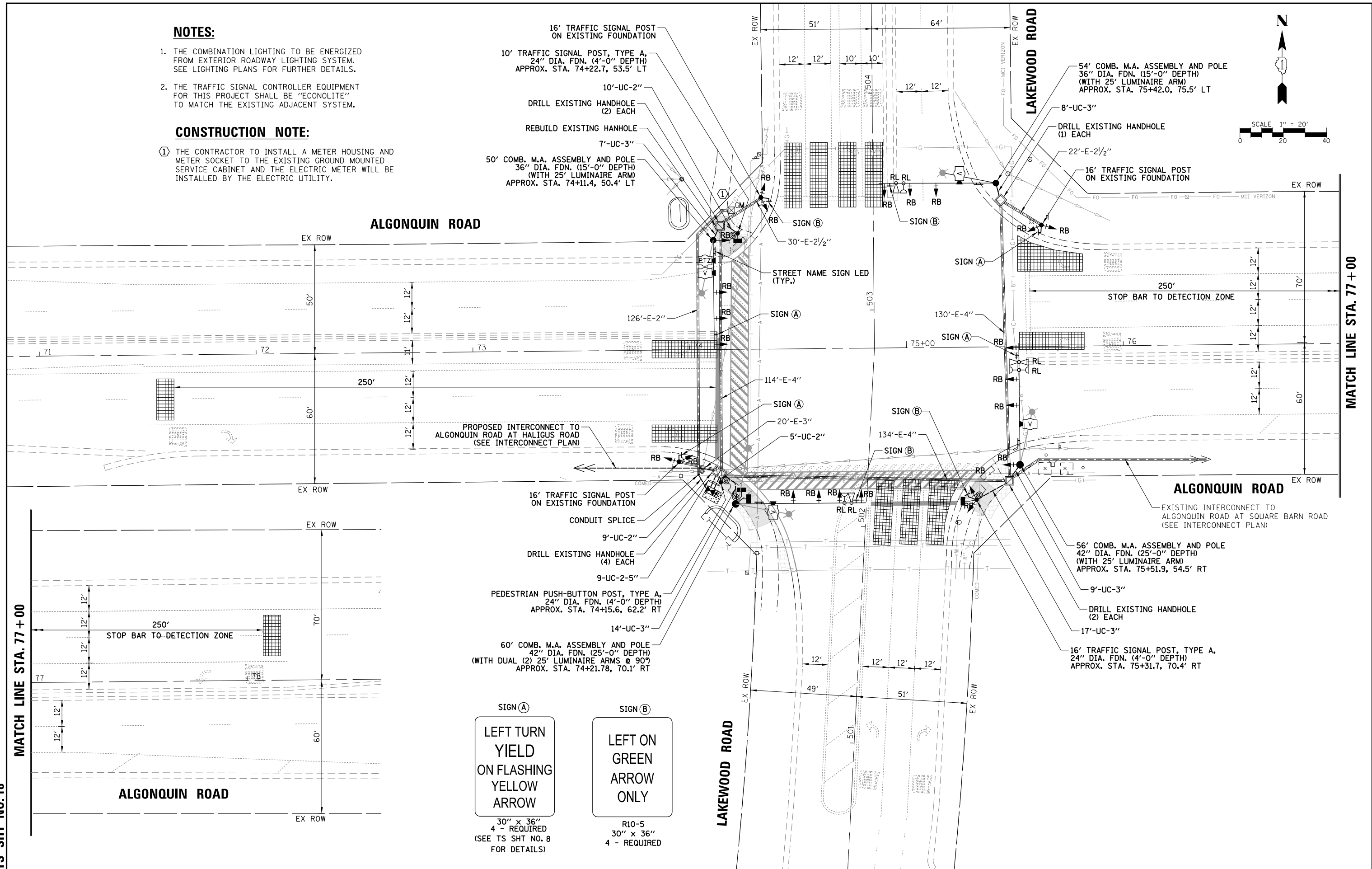
1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM EXTERIOR ROADWAY LIGHTING SYSTEM. SEE LIGHTING PLANS FOR FURTHER DETAILS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- ① THE CONTRACTOR TO INSTALL A METER HOUSING AND METER SOCKET TO THE EXISTING GROUND MOUNTED SERVICE CABINET AND THE ELECTRIC METER WILL BE INSTALLED BY THE ELECTRIC UTILITY.

DATE	BY	DATE	BY
PLAN	DATE	PROFILE	DATE
NO.		NO.	
NO.		NO.	
NO.		NO.	

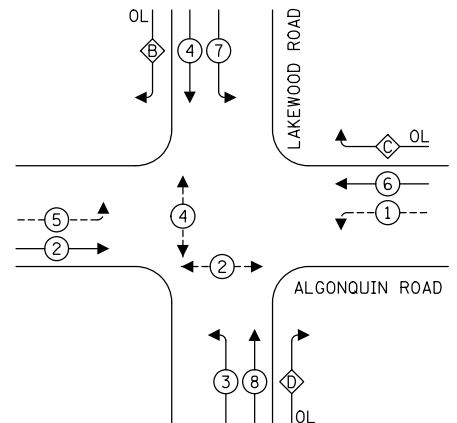
TS SHT NO. 18



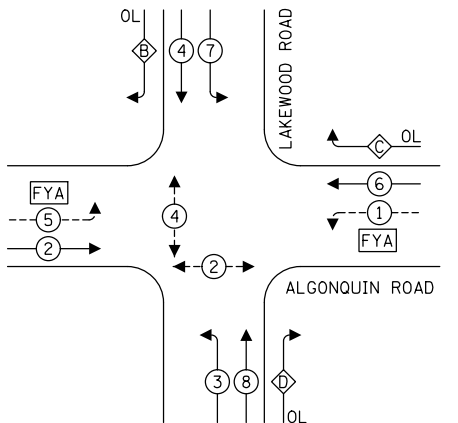
FILE NAME = TS2.Lakewood-04_M0D	USER NAME = pandrews	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN ALGONQUIN ROAD AT LAKEWOOD ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	43
		CHECKED - GMZ	REVISED -							CONTRACT NO. 61H50			
		DATE -	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DATE: _____ BY: _____
 SURVEYED _____ ALIGNED _____ CHECKED _____
 PLAN NOTE BOOK NO. _____ RT. OF WAY CHECKED _____
 DATE: _____ BY: _____
 SURVEYED _____ GRADES CHECKED _____
 PROFILE NOTE BOOK NO. _____ STRUCTURE NOTATIONS OK/NO

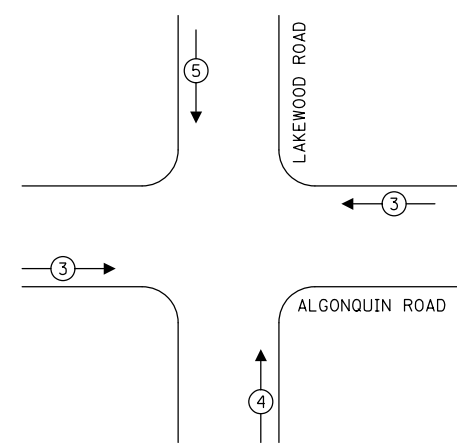
EXISTING CONTROLLER SEQUENCE



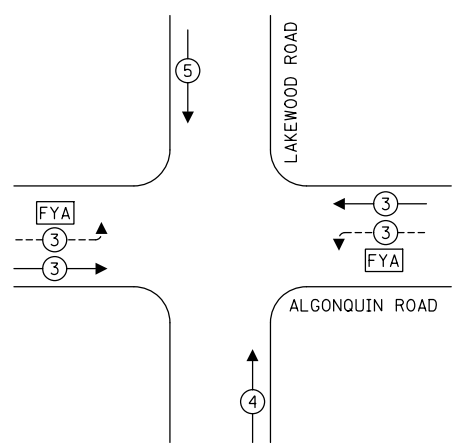
PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:
 ← ⊙ → PROTECTED PHASE
 ← ⊙ - - → PROTECTED/PERMITTED PHASE
 ← ⊙ ⊙ → PEDESTRIAN PHASE
 ← ⊙ ⊙ OL OVERLAP
 [FYA] FLASHING YELLOW ARROW

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

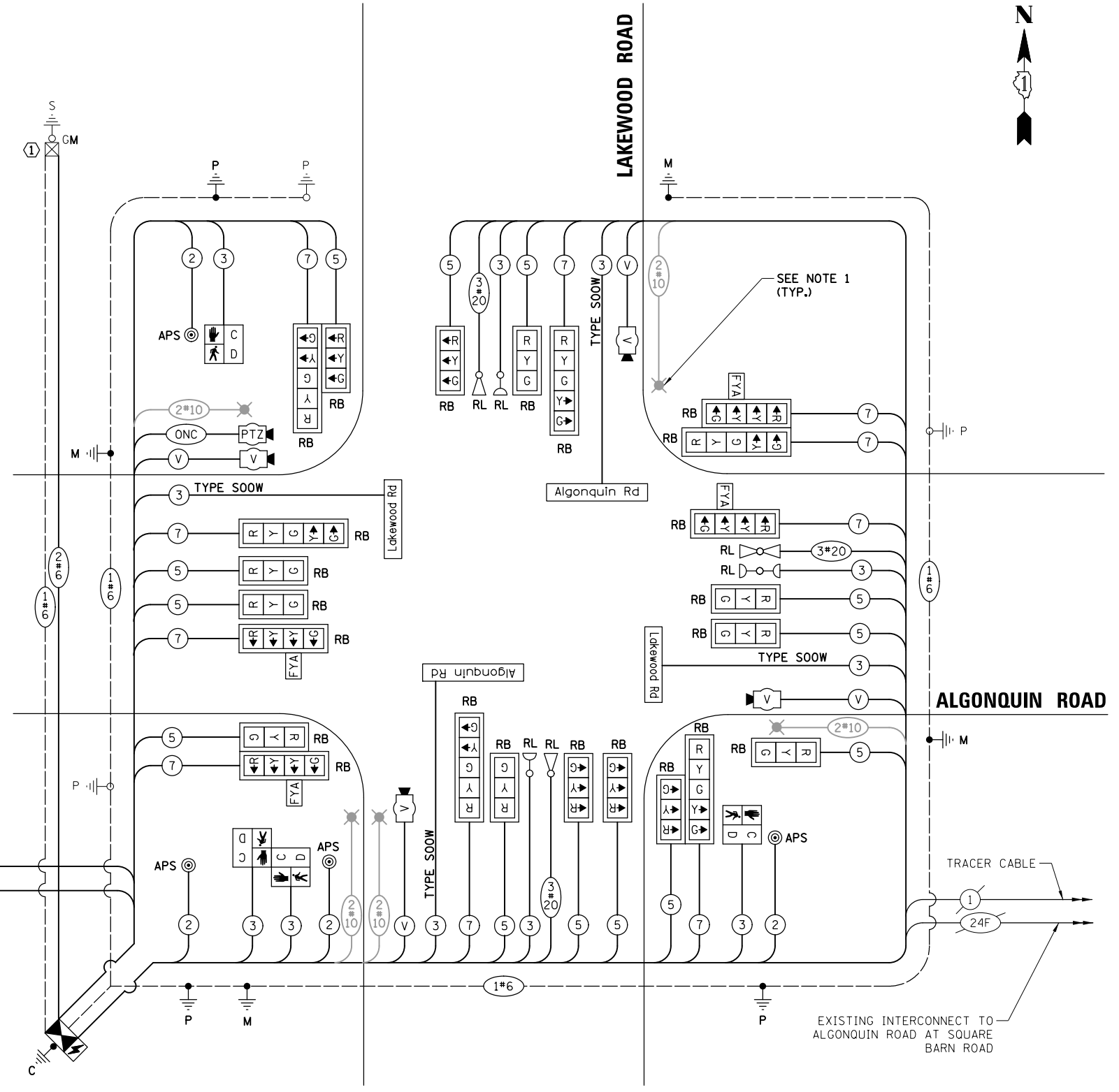
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
SOLID ARROW (RED)	9	10	50	45.0
(GREEN & YELLOW)	30	10	10	30.0
FLASHING ARROW	4	10	5	2.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	190	50	-
TOTAL =				598.6

ENERGY COSTS TO:
 VILLAGE OF HUNTLEY
 PUBLIC WORKS AND ENGINEERING
 10987 Main Street, Huntley, IL 60142
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

- NOTES:**
1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM EXTERIOR ROADWAY LIGHTING SYSTEM. SEE LIGHTING PLANS FOR FURTHER DETAILS.
 2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

① THE CONTRACTOR TO INSTALL A METER HOUSING AND METER SOCKET TO THE EXISTING GROUND MOUNTED SERVICE CABINET AND THE ELECTRIC METER WILL BE INSTALLED BY THE ELECTRIC UTILITY.



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 19

FILE NAME = TS2.Lakewood-05_CAB	USER NAME = pandrews	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
ALGONQUIN ROAD AT LAKEWOOD ROAD

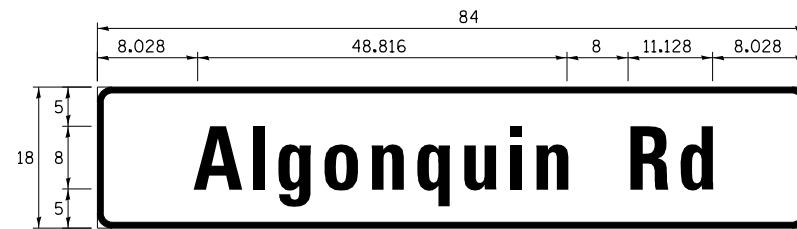
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	44
CONTRACT NO. 61H50				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

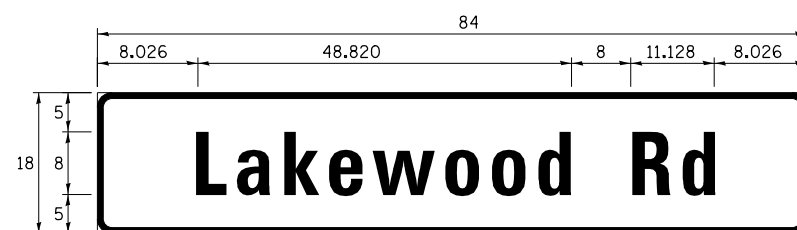
SCHEDULE OF QUANTITIES

LED ILLUMINATED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	10.5	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	10.5	ZZ	2

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL DA	28
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	24
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	38
UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.	FOOT	18
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	468
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1228
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2578
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2310.5
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	153
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	944
TRAFFIC SIGNAL POST, 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50
DRILL EXISTING FOUNDATION	EACH	1
DRILL EXISTING HANDHOLE	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	23
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7573.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
MODIFY EXISTING SERVICE INSTALLATION	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	742
**ROD AND CLEAN EXISTING CONDUIT	FOOT	500
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	245
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	841
CONDUIT SPLICE	EACH	10
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
REMOVE EXISTING UNDERGROUND CONDUIT	FOOT	9
LOCATING UNDERGROUND UTILITY	EACH	2
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
ETHERNET SWITCH, TYPE 2	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

**Nominal Quantity to be used as Directed by the Engineer

DATE	BY	SURVEYED	ALIGNED	CHECKED
DATE	BY	GRADES	CHECKED	
DATE	BY	STRUCTURE	NOTATIONS	CHKD
DATE	BY	PLAN	NOTE BOOK	NO.
DATE	BY	PROFILE	NOTE BOOK	NO.

TS SHT NO.20

FILE NAME = TS2.Lakewood-06_STN	USER NAME = pandrews	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES AND MAST ARM MOUNTED STREET NAME SIGN ALGONQUIN ROAD AT LAKEWOOD ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 48"	CHECKED - GMZ	REVISED -				18-00480-00-TL	MCHENRY	132	45	
PLOT DATE = 1/12/2022	DATE -	REVISED -				CONTRACT NO. 61H50				
						SCALE: NOT TO SCALE	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

REMOVAL AND RELOCATION 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 THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 3 EACH STEEL MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 9 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION (POLE MOUNTED)
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 3 EACH D3-1 STREET NAME SIGN

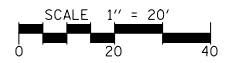
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

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

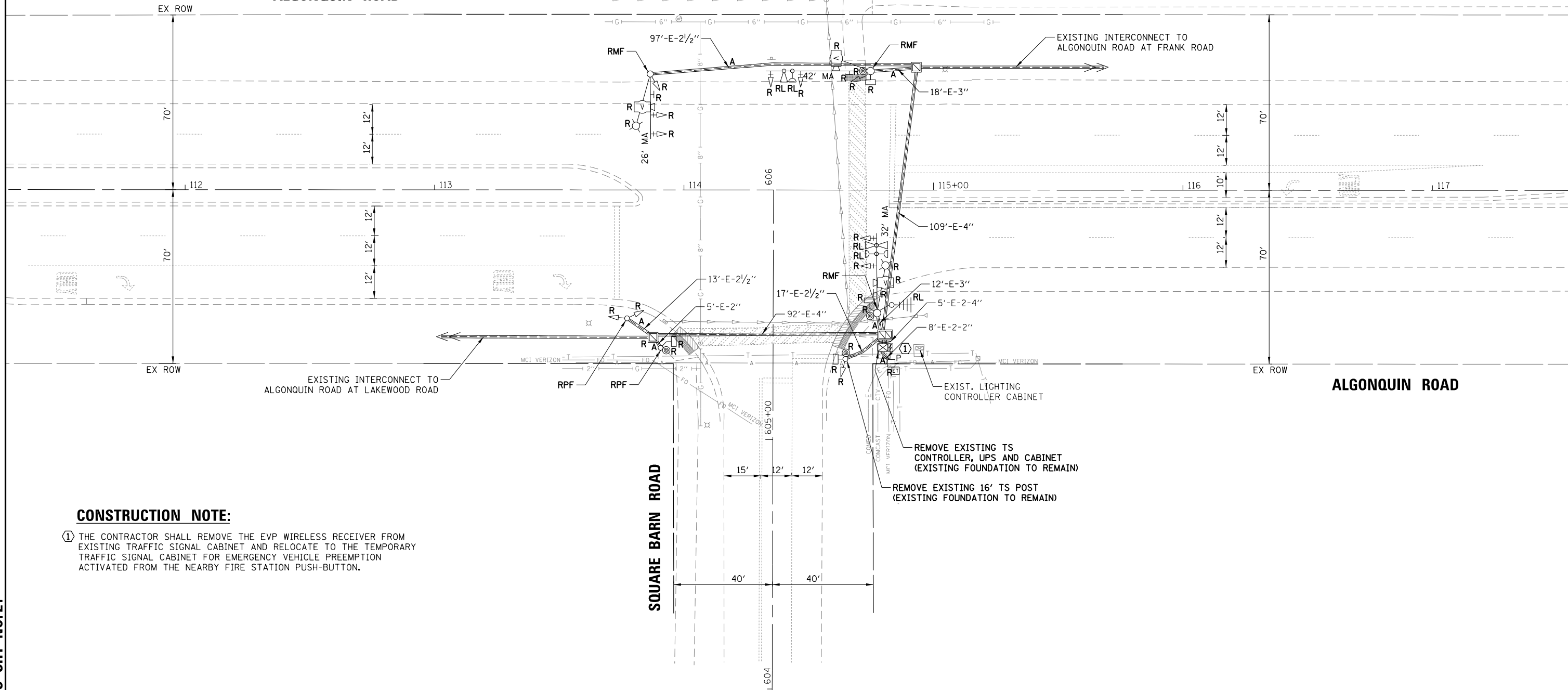
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: MCHENRY COUNTY DIVISION OF TRANSPORTATION
 CONTACT PERSON: BRADLEY COUSIN
 DEPARTMENT: DESIGN (TRAFFIC ENGINEER)
 PHONE NUMBER: (815) 334-4960

- 1 EACH MASTER CONTROLLER
- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)



ALGONQUIN ROAD



CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL REMOVE THE EVP WIRELESS RECEIVER FROM EXISTING TRAFFIC SIGNAL CABINET AND RELOCATE TO THE TEMPORARY TRAFFIC SIGNAL CABINET FOR EMERGENCY VEHICLE PREEMPTION ACTIVATED FROM THE NEARBY FIRE STATION PUSH-BUTTON.

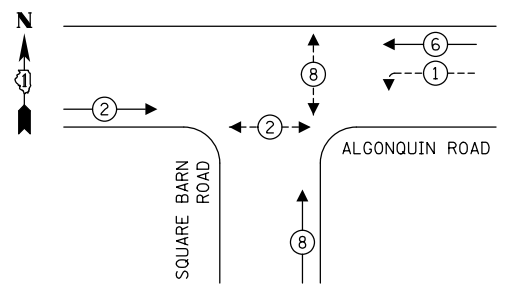
DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO.21

FILE NAME = TS3.Square Barn-01-REM	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN ALGONQUIN ROAD AT SQUARE BARN ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -					18-00480-00-TL	MCHENRY	132	46
		CHECKED - GMZ	REVISED -			CONTRACT NO. 61H50					
		DATE -	REVISED -			SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

DATE: _____ BY: _____
 SURVEYED _____ ALIGNED _____ CHECKED _____
 RT. OF WAY CHECKED _____
 PLAN NOTE BOOK NO. _____
 DATE: _____ BY: _____
 SURVEYED _____ GRADES CHECKED _____
 BLM. NOTED _____ STRUCTURE NOTATIONS OKWD
 PROFILE NOTE BOOK NO. _____

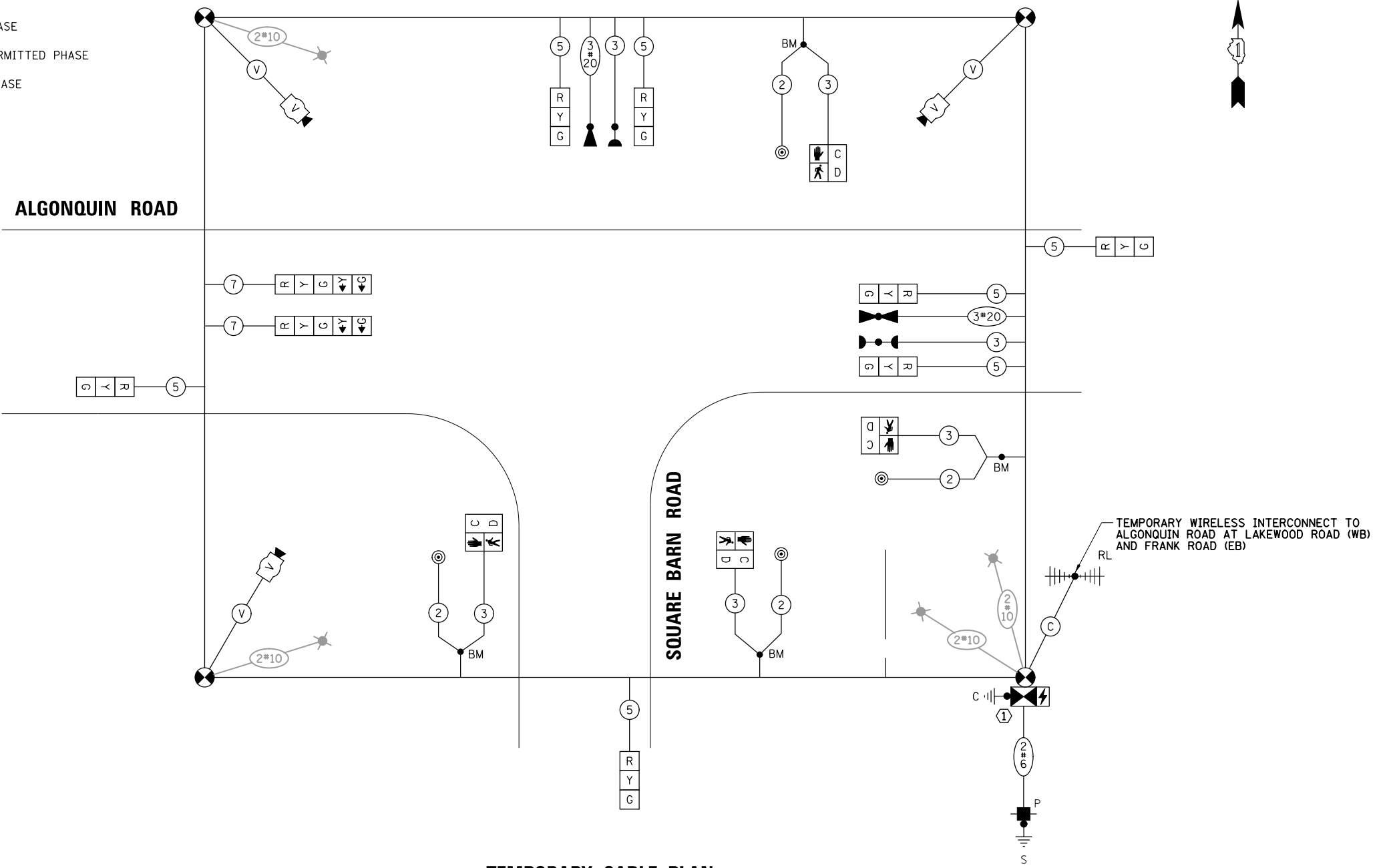
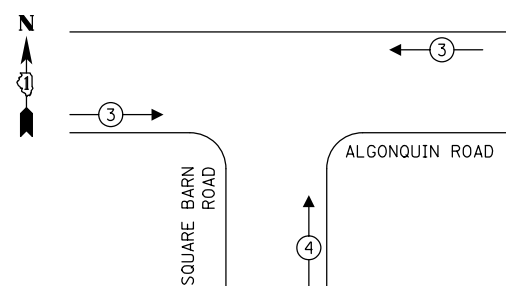
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY CABLE PLAN
(NOT TO SCALE)

NOTES:

1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
2. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL REMOVE THE EVP WIRELESS RECEIVER FROM EXISTING TRAFFIC SIGNAL CABINET AND RELOCATE TO THE TEMPORARY TRAFFIC SIGNAL CABINET FOR EMERGENCY VEHICLE PREEMPTION ACTIVATED FROM THE NEARBY FIRE STATION PUSH-BUTTON.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				966.1

ENERGY COSTS TO:
 VILLAGE OF ALGONQUIN
 PUBLIC WORKS
 110 Meyer Drive, Algonquin, IL 60102
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: NEW PHONE
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

TS SHT NO. 23

FILE NAME = TS3.Square Barn-03.TCB	USER NAME = pandrows	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -
		PLOT SCALE = 48"	
		PLOT DATE = 1/12/2022	

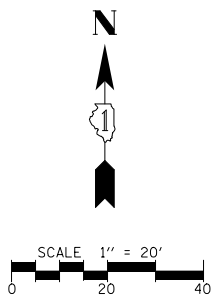
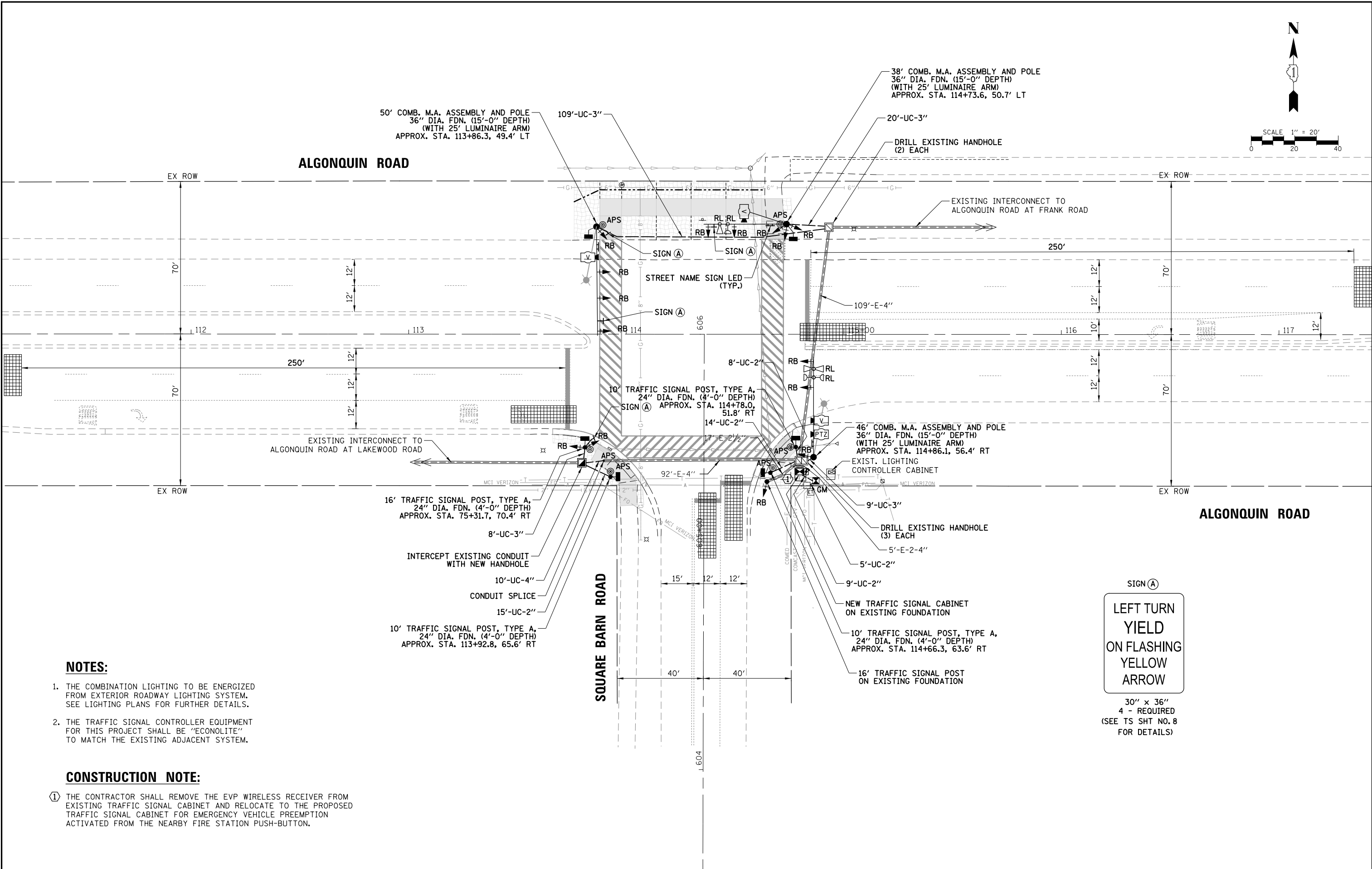
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ALGONQUIN ROAD AT SQUARE BARN ROAD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	48
CONTRACT NO. 61H50				
SCALE: NOT TO SCALE		SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO.24



NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM EXTERIOR ROADWAY LIGHTING SYSTEM. SEE LIGHTING PLANS FOR FURTHER DETAILS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL REMOVE THE EVP WIRELESS RECEIVER FROM EXISTING TRAFFIC SIGNAL CABINET AND RELOCATE TO THE PROPOSED TRAFFIC SIGNAL CABINET FOR EMERGENCY VEHICLE PREEMPTION ACTIVATED FROM THE NEARBY FIRE STATION PUSH-BUTTON.

FILE NAME = TS3.Square Barn-04.MXD

USER NAME = pandrows
 PLOT SCALE = 48"
 PLOT DATE = 1/12/2022

DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

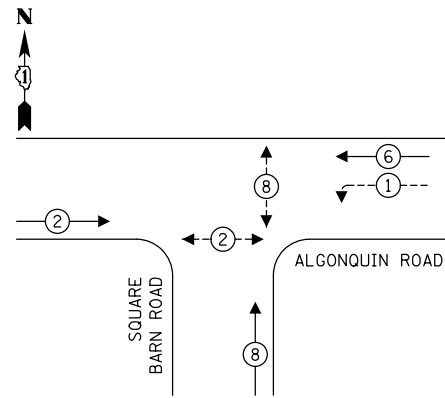
TRAFFIC SIGNAL MODERNIZATION PLAN
 ALGONQUIN ROAD AT SQUARE BARN ROAD

SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

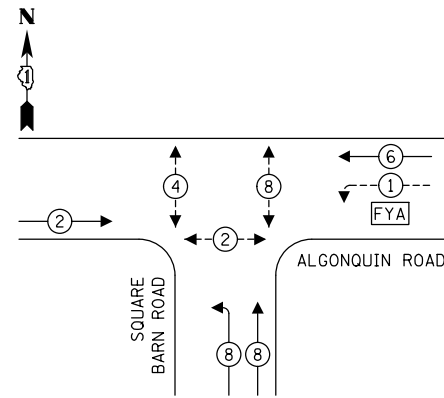
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	49
CONTRACT NO. 61H50		ILLINOIS FED. AID PROJECT		

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 GRADES CHECKED: _____ RT. OF WAY CHECKED: _____
 NOTE BOOK NO.: _____ CAD FILE NAME: _____
 PROFILE: _____
 SURVEYED: _____
 GRADES CHECKED: _____
 BLM. NOTED: _____
 STRUCTURE NOTATIONS: OK/NO

EXISTING CONTROLLER SEQUENCE

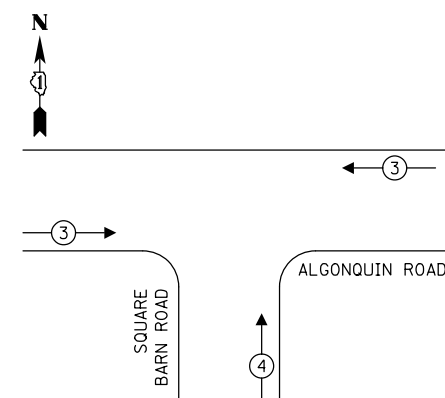


PROPOSED CONTROLLER SEQUENCE

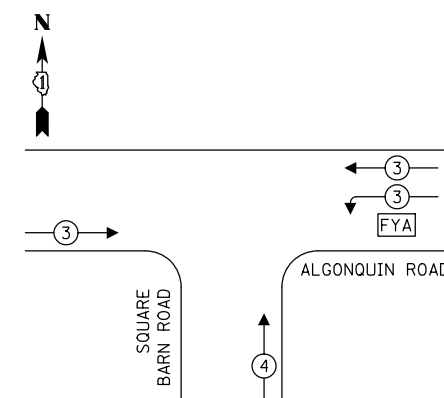


- LEGEND:**
- ⊙ PROTECTED PHASE
 - ⊙- - PROTECTED/PERMITTED PHASE
 - ⊙- -> PEDESTRIAN PHASE
 - ⊙ OL OVERLAP
 - FYA FLASHING YELLOW ARROW

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



FIRE STATION WIRELESS PUSH-BUTTON SHALL PLACE A CALL TO EMERGENCY VEHICLE PHASE 4.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

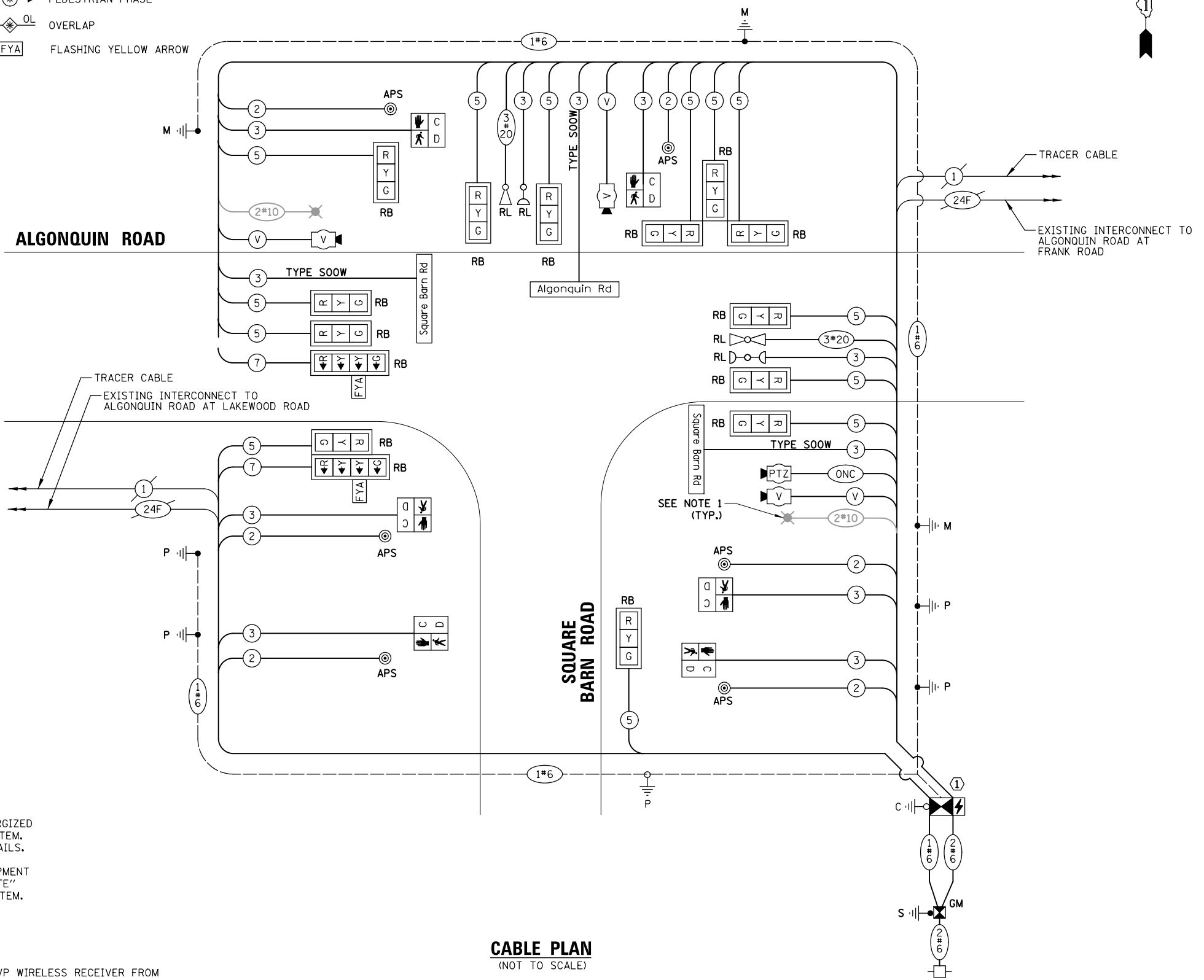
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
SOLID ARROW (RED)	2	10	50	10.0
(GREEN & YELLOW)	4	10	10	4.0
FLASHING ARROW	2	10	5	1.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	190	50	-
TOTAL =				564.7

NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM EXTERIOR ROADWAY LIGHTING SYSTEM. SEE LIGHTING PLANS FOR FURTHER DETAILS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL REMOVE THE EVP WIRELESS RECEIVER FROM EXISTING TRAFFIC SIGNAL CABINET AND RELOCATE TO THE PROPOSED TRAFFIC SIGNAL CABINET FOR EMERGENCY VEHICLE PREEMPTION ACTIVATED FROM THE NEARBY FIRE STATION PUSH-BUTTON.



CABLE PLAN
(NOT TO SCALE)

TS SHT NO.25

ENERGY COSTS TO:
 VILLAGE OF ALGONQUIN
 PUBLIC WORKS
 110 Meyer Drive, Algonquin, IL 60102
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

FILE NAME = TS3_Square Barn-05.CAB	USER NAME = pandrows	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ALGONQUIN ROAD AT SQUARE BARN ROAD

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

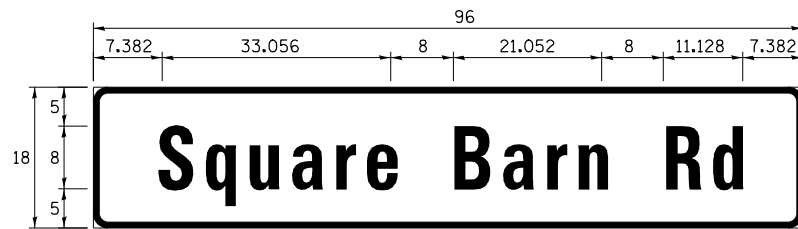
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	50
CONTRACT NO. 61H50				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LED ILLUMINATED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	10.5	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	12.0	ZZ	2

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL DA	28
SIGN PANEL - TYPE 1	SQ FT	30
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	73
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	149
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	826
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1171.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2229.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	480
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	52.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	678.5
TRAFFIC SIGNAL POST, 10 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
DRILL EXISTING FOUNDATION	EACH	1
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE	EACH	14
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
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	3924.5
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	311.5
**ROD AND CLEAN EXISTING CONDUIT	FOOT	300
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
OUTDOOR RATED NETWORK CABLE	FOOT	101.5
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	538.5
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
CONDUIT SPLICE	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
LOCATING UNDERGROUND UTILITY	EACH	2
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
ETHERNET SWITCH, TYPE 2	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

**Nominal Quantity to be used as Directed by the Engineer

DATE	BY	SURVEYED	ALIGNED	CHECKED
DATE	BY	GRADES	CHECKED	
DATE	BY	BLM. NOTED		
DATE	BY	STRUCTURE	NOTATIONS	CHK'D
DATE	BY	PROFILE	NOTE BOOK	
DATE	BY	NO.		

TS SHT NO.26

FILE NAME = TS3.Square Barn-06.STN	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES AND MAST ARM MOUNTED STREET NAME SIGN ALGONQUIN ROAD AT SQUARE BARN ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 48"	CHECKED - GMZ	REVISED -	18-00480-00-TL			MCHENRY	132	51		
PLOT DATE = 1/12/2022	DATE -	REVISED -	CONTRACT NO. 61H50							
			SCALE: NOT TO SCALE			SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

REMOVAL AND RELOCATION 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 THE CONTRACT BID PRICE.

- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 4 EACH 10 FT TRAFFIC SIGNAL POST
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION (POLE MOUNTED)
- 4 EACH WOOD POLE
- 1 EACH WIRELESS INTERCONNECT SYSTEM

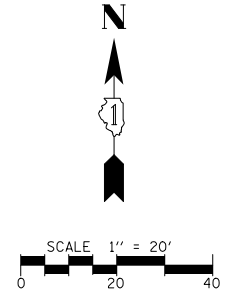
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL POST, PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

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

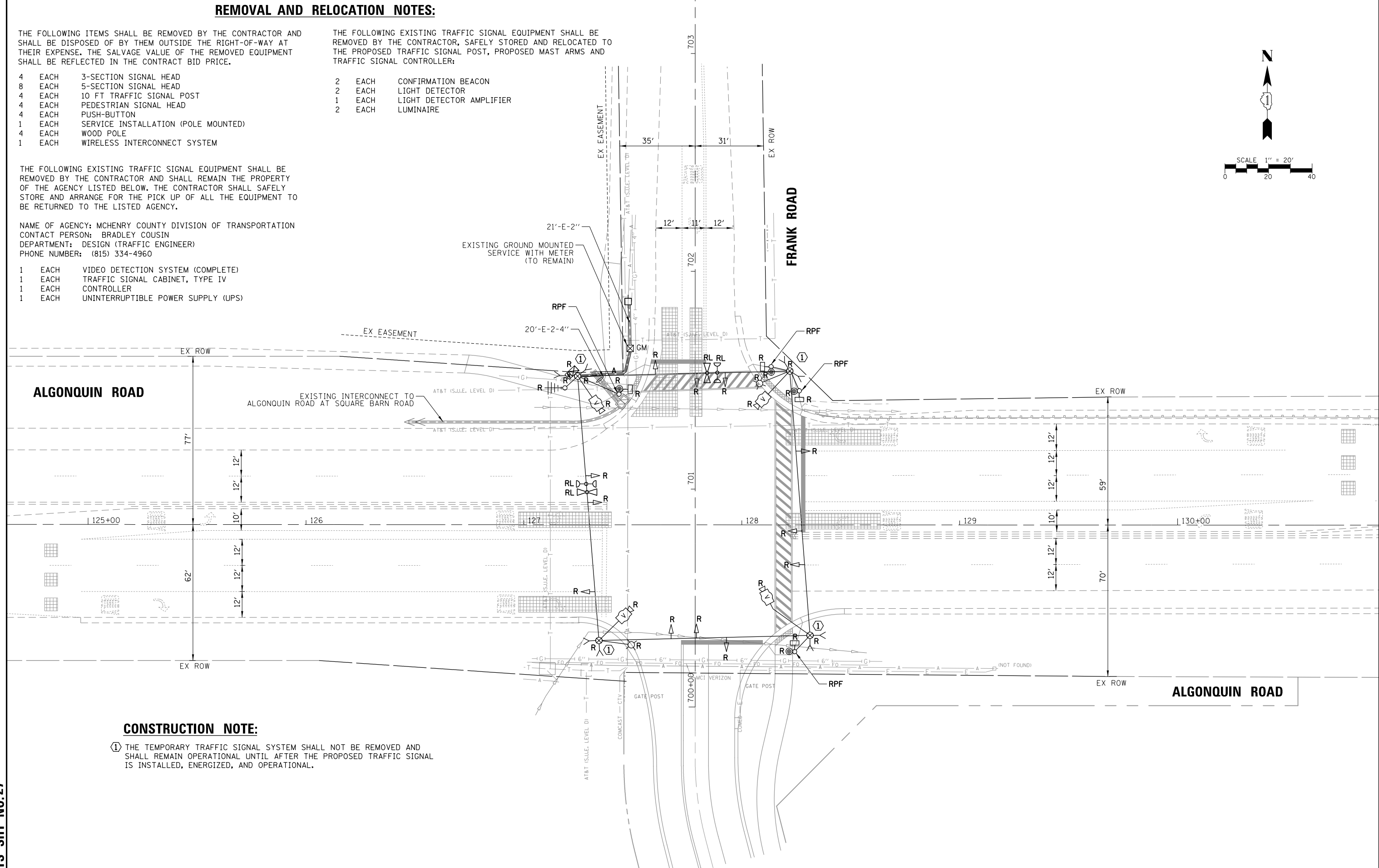
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: MCHENRY COUNTY DIVISION OF TRANSPORTATION
 CONTACT PERSON: BRADLEY COUSIN
 DEPARTMENT: DESIGN (TRAFFIC ENGINEER)
 PHONE NUMBER: (815) 334-4960

- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)
- 1 EACH TRAFFIC SIGNAL CABINET, TYPE IV
- 1 EACH CONTROLLER
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)



DATE	BY	SURVEYED	ALIGNED	CHECKED	FILE NAME
DATE	BY	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D	
DATE	BY	PLAN	NOTE BOOK	NO.	
DATE	BY	PROFILE	NOTE BOOK	NO.	



CONSTRUCTION NOTE:

- ① THE TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL NOT BE REMOVED AND SHALL REMAIN OPERATIONAL UNTIL AFTER THE PROPOSED TRAFFIC SIGNAL IS INSTALLED, ENERGIZED, AND OPERATIONAL.

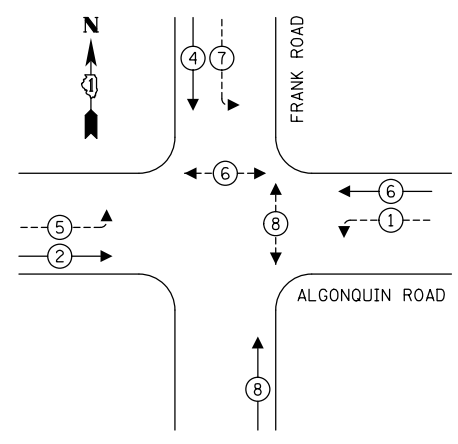
TS SHT NO.27

FILE NAME = TS4_Frank-01.TMP-Rem	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SPAN-WIRE TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN ALGONQUIN ROAD AT FRANK ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48"	DRAWN - FPB	REVISED -			18-00480-00-TL	MCHENRY	132	52	
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -			CONTRACT NO. 61H50				
		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	BY	DATE	BY
DATE	BY	DATE	BY

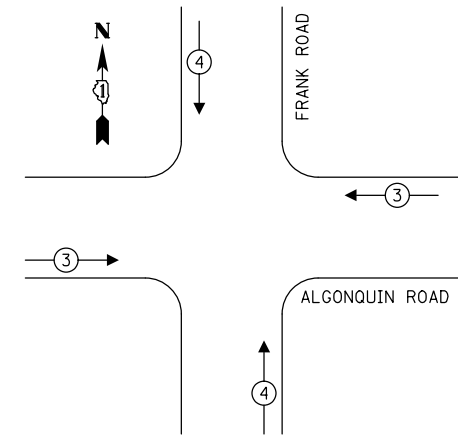
TS SHT NO. 28

TEMPORARY CONTROLLER SEQUENCE



- LEGEND:**
- ← ⊙ → PROTECTED PHASE
 - ← ⊙ - - → PROTECTED/PERMITTED PHASE
 - ← ⊙ → PEDESTRIAN PHASE
 - ← ⊙ OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



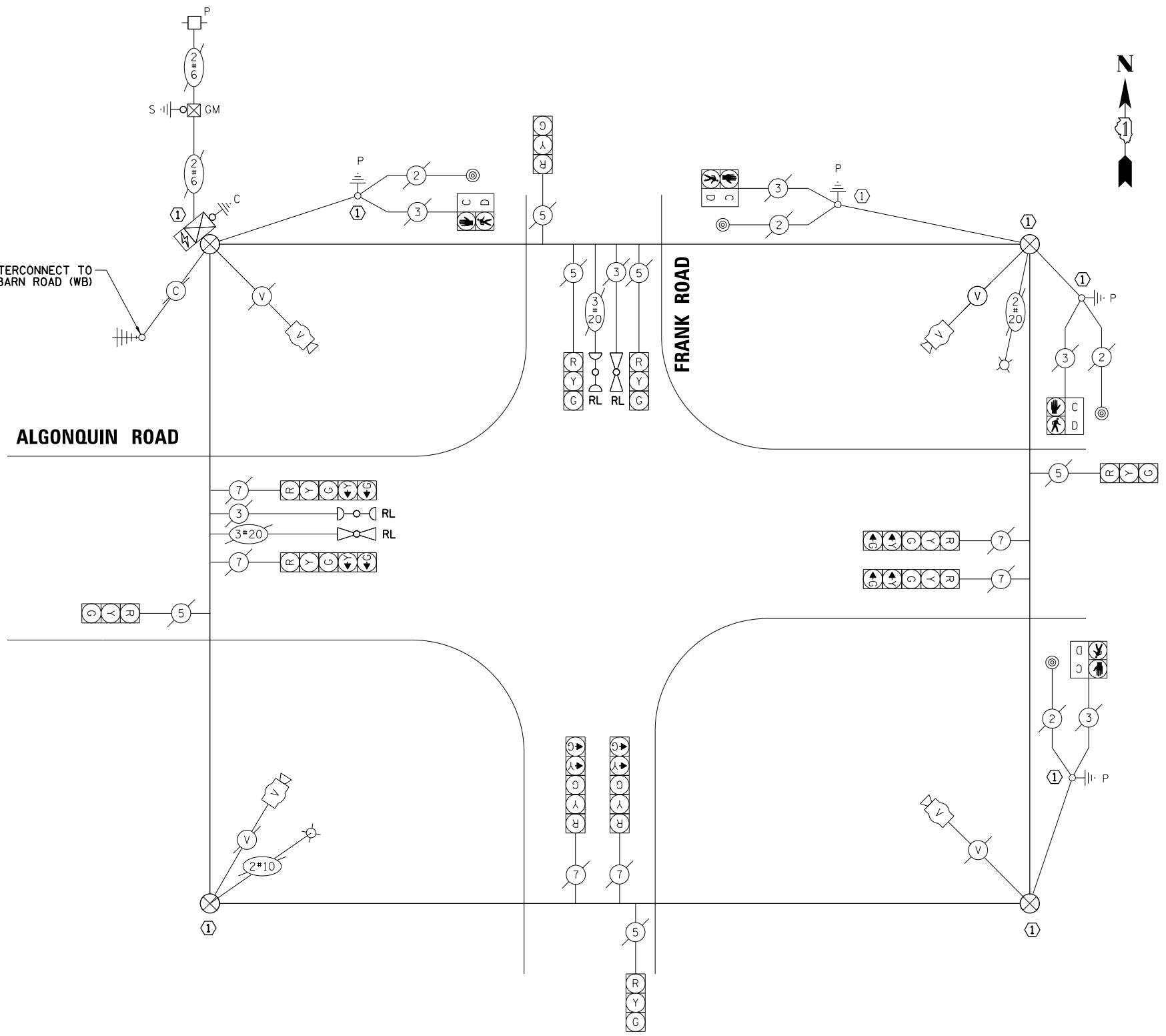
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
TOTAL =				509.8

ENERGY COSTS TO:
 VILLAGE OF LAKE IN THE HILLS
 PUBLIC WORKS
 9010 Hallgus Road, Lake In the Hills, IL 60156
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: NEW PHONE
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

CONSTRUCTION NOTE:
 ① THE TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL NOT BE REMOVED AND SHALL REMAIN OPERATIONAL UNTIL AFTER THE PROPOSED TRAFFIC SIGNAL IS INSTALLED, ENERGIZED, AND OPERATIONAL.

TEMPORARY WIRELESS INTERCONNECT TO ALGONQUIN ROAD AT SQUARE BARN ROAD (WB)



EXISTING CONDITION TEMPORARY CABLE PLAN
 (NOT TO SCALE)

FILE NAME = TS4_Frank-02.TCB	USER NAME = pandrows	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

SCALE: NOT TO SCALE	SHEET NO. OF SHEETS	STA. TO STA.
---------------------	---------------------	--------------

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SPAN-WIRE CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 ALGONQUIN ROAD AT FRANK ROAD

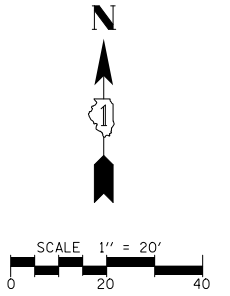
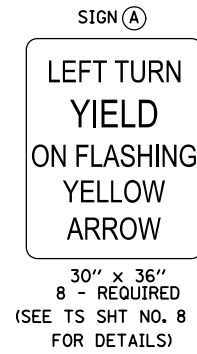
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	53
CONTRACT NO. 61H50				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM EXTERIOR ROADWAY LIGHTING SYSTEM. SEE LIGHTING PLANS FOR FURTHER DETAILS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

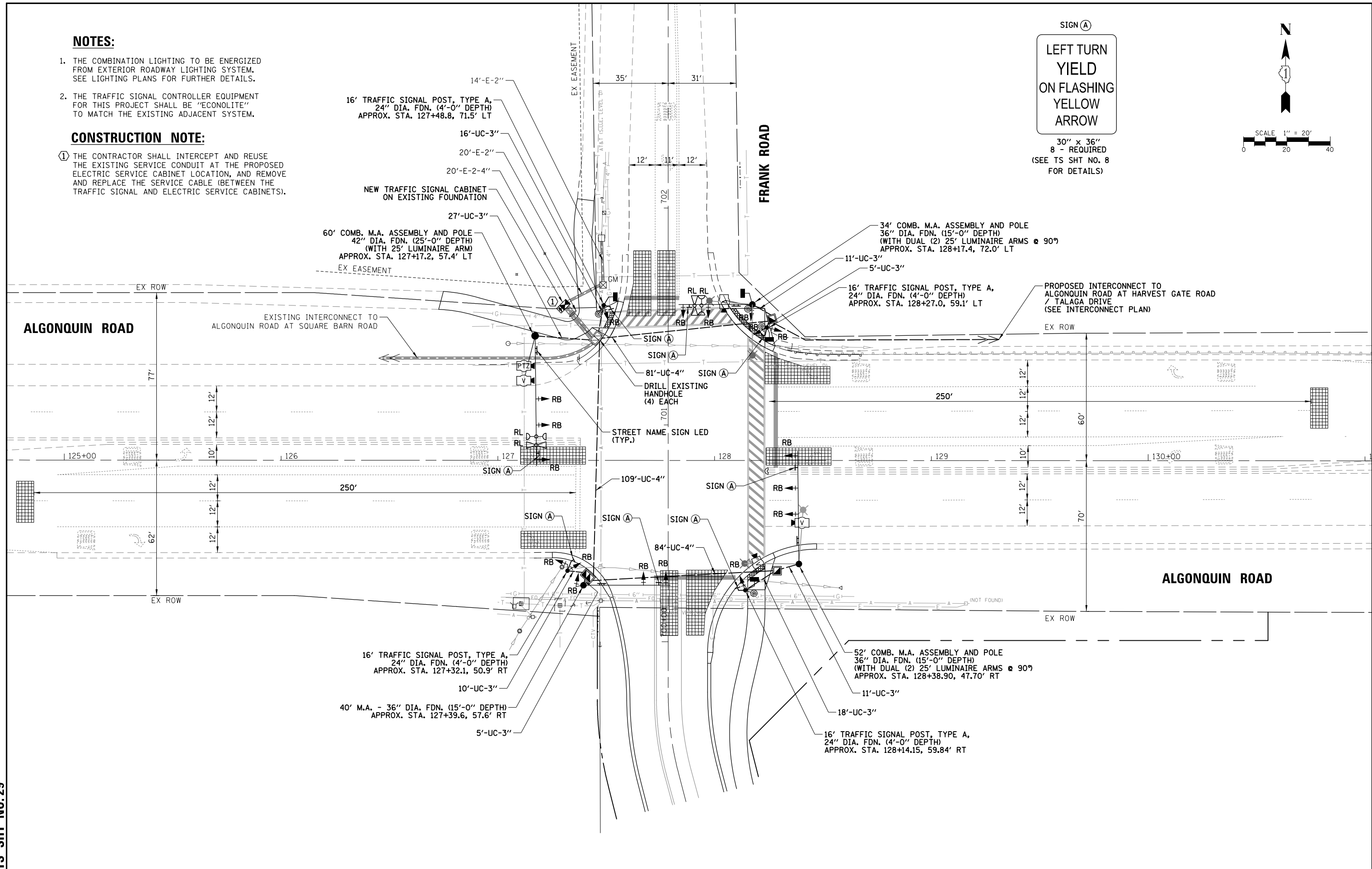
CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL INTERCEPT AND REUSE THE EXISTING SERVICE CONDUIT AT THE PROPOSED ELECTRIC SERVICE CABINET LOCATION, AND REMOVE AND REPLACE THE SERVICE CABLE (BETWEEN THE TRAFFIC SIGNAL AND ELECTRIC SERVICE CABINETS).



DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO.29



FILE NAME =	USER NAME = pandrows	DESIGNED - TFS	REVISED -
TS4_Frank-03.MXD		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

PLOT SCALE = 48"	DATE -	REVISED -
PLOT DATE = 1/12/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
ALGONQUIN ROAD AT FRANK ROAD**

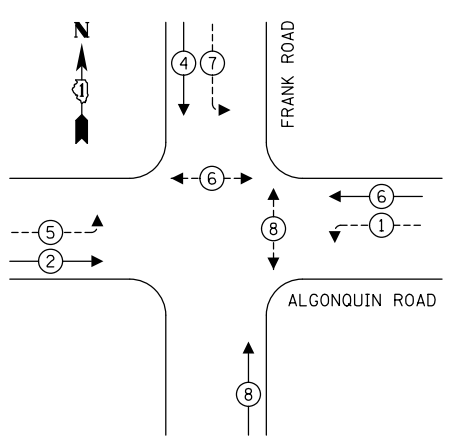
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	54
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 61H50

SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

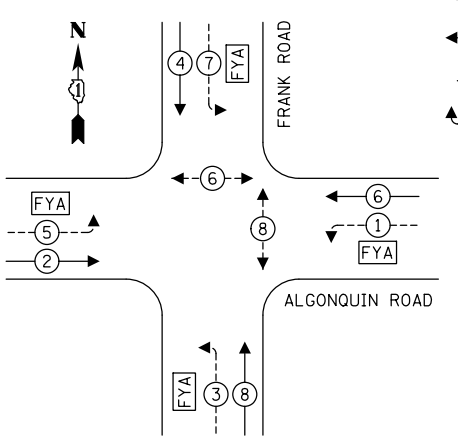
DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO. 30

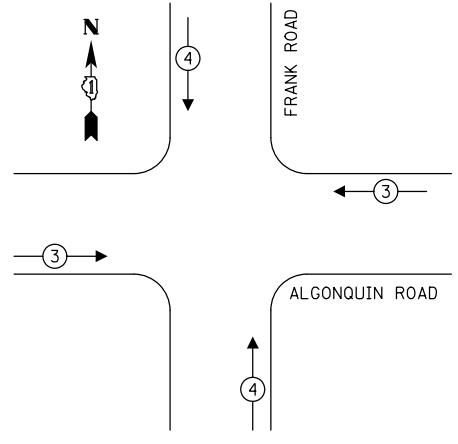
EXISTING CONTROLLER SEQUENCE



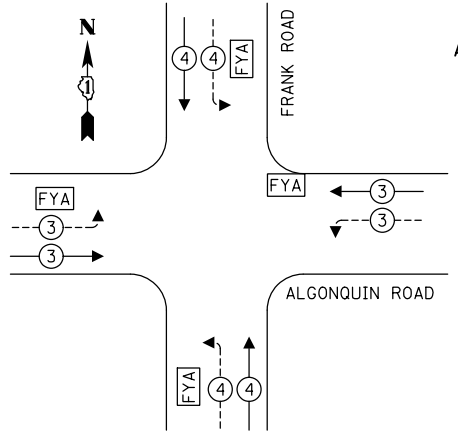
PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



- LEGEND:**
- ← (⊛) ← PROTECTED PHASE
 - ← (⊛) - - PROTECTED/PERMITTED PHASE
 - ← (⊛) → PEDESTRIAN PHASE
 - ← (⊛) OL OVERLAP
 - (FYA) FLASHING YELLOW ARROW

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	190	50	-
TOTAL =				534.0

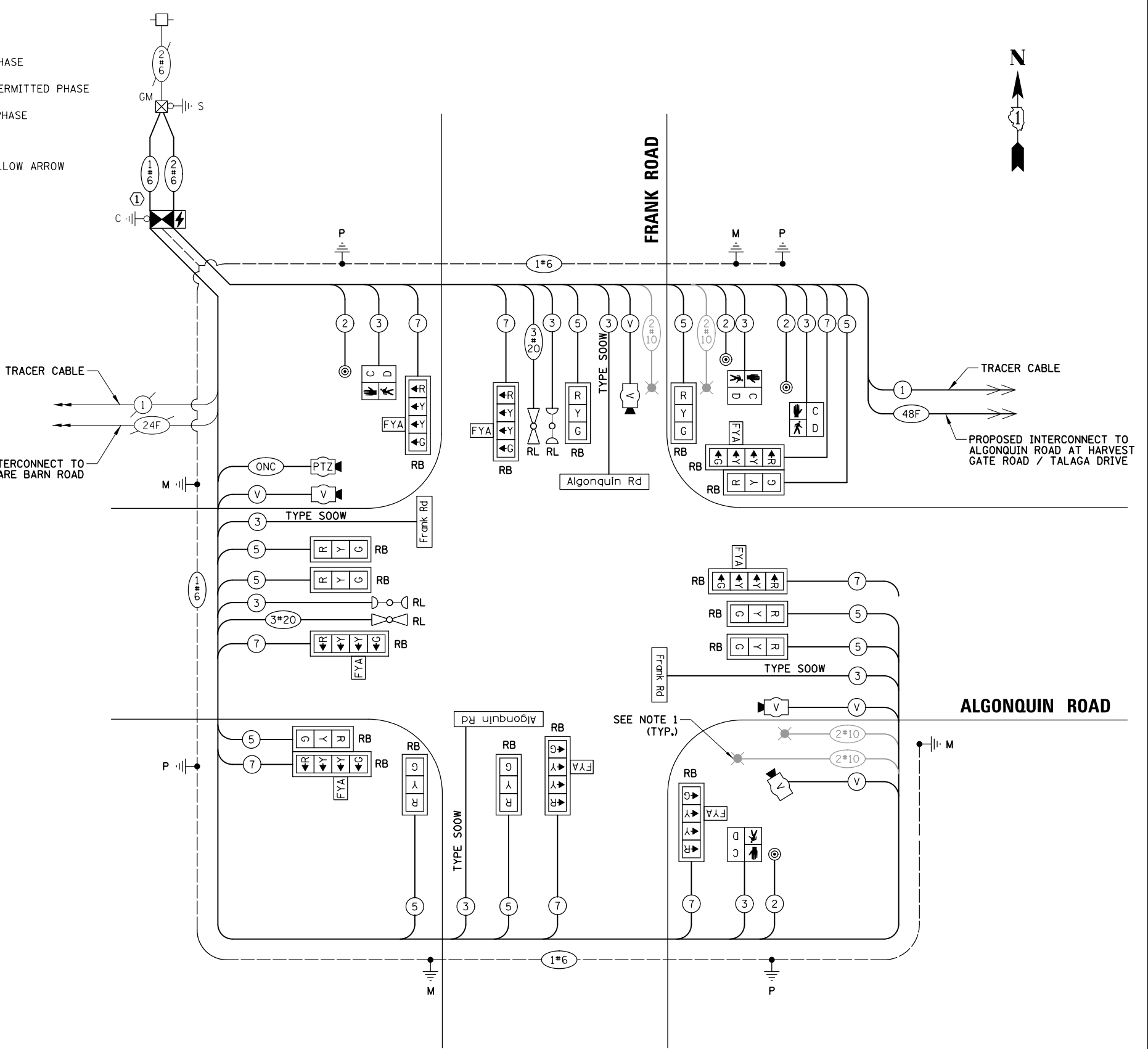
NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM EXTERIOR ROADWAY LIGHTING SYSTEM. SEE LIGHTING PLANS FOR FURTHER DETAILS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL INTERCEPT AND REUSE THE EXISTING SERVICE CONDUIT AT THE PROPOSED ELECTRIC SERVICE CABINET LOCATION, AND REMOVE AND REPLACE THE SERVICE CABLE (BETWEEN THE TRAFFIC SIGNAL AND ELECTRIC SERVICE CABINETS).

ENERGY COSTS TO:
 VILLAGE OF LAKE IN THE HILLS
 PUBLIC WORKS
 9010 Halligus Road, Lake In the Hills, IL 60156
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

FILE NAME = TS4_Frank-04.CAB	USER NAME = pandrows	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 1/12/2022	REVISED -

DESIGNED - TFS	REVISED -
DRAWN - FPB	REVISED -
CHECKED - GMZ	REVISED -
DATE - 1/12/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

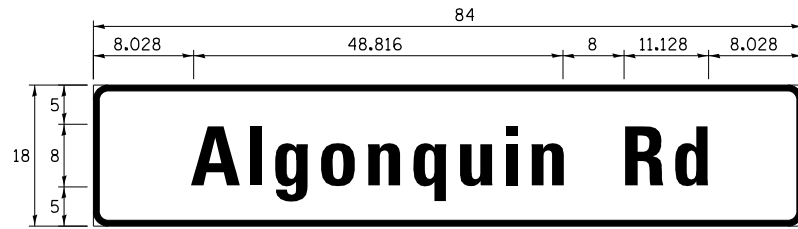
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
ALGONQUIN ROAD AT FRANK ROAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	55
CONTRACT NO. 61H50				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

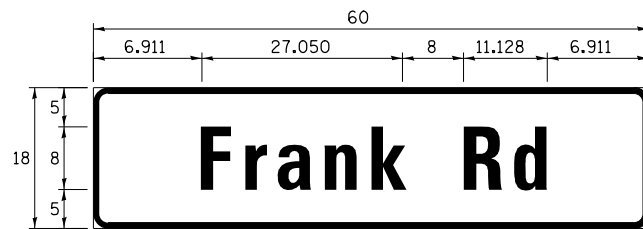
SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

LED ILLUMINATED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	10.5	ZZ	2



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

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL DA	28
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	101
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	264
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	626.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	931
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1908.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1546.5
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	29
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	678.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25
DRILL EXISTING HANDHOLE	EACH	4
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, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	18
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
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	320
**ROD AND CLEAN EXISTING CONDUIT	FOOT	500
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	114
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	749.5
CONDUIT SPLICE	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
LOCATING UNDERGROUND UTILITY	EACH	2
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
ETHERNET SWITCH, TYPE 2	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	77.1

**Nominal Quantity to be used as Directed by the Engineer

DATE	BY	DATE	BY
SURVEYED	ALIGNED	SURVEYED	ALIGNED
GRADES CHECKED	RT. OF WAY CHECKED	GRADES CHECKED	RT. OF WAY CHECKED
BLM. NOTED	STRUCTURE NOTATIONS OK'D	BLM. NOTED	STRUCTURE NOTATIONS OK'D
PROFILE	NOTE BOOK	PROFILE	NOTE BOOK
NO.		NO.	

TS SHT NO.31

FILE NAME = TS4.Frank-05.STN	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES AND MAST ARM MOUNTED STREET NAME SIGN ALGONQUIN ROAD AT FRANK ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN - FPB	REVISED -		SCALE: NOT TO SCALE	SHEET NO.	OF	SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	56
		CHECKED - GMZ	REVISED -								CONTRACT NO. 61H50			
		PLOT DATE = 1/12/2022	DATE -		REVISED -							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO. 32

REMOVAL AND RELOCATION 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 THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 6 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION (POLE MOUNTED)
- 8 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH VIDEO DETECTION CAMERA
- 2 EACH LUMINAIRE
- 4 EACH D3-1 STREET NAME SIGN

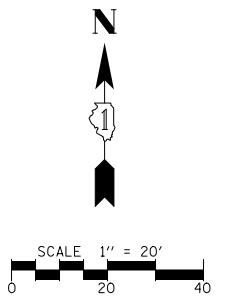
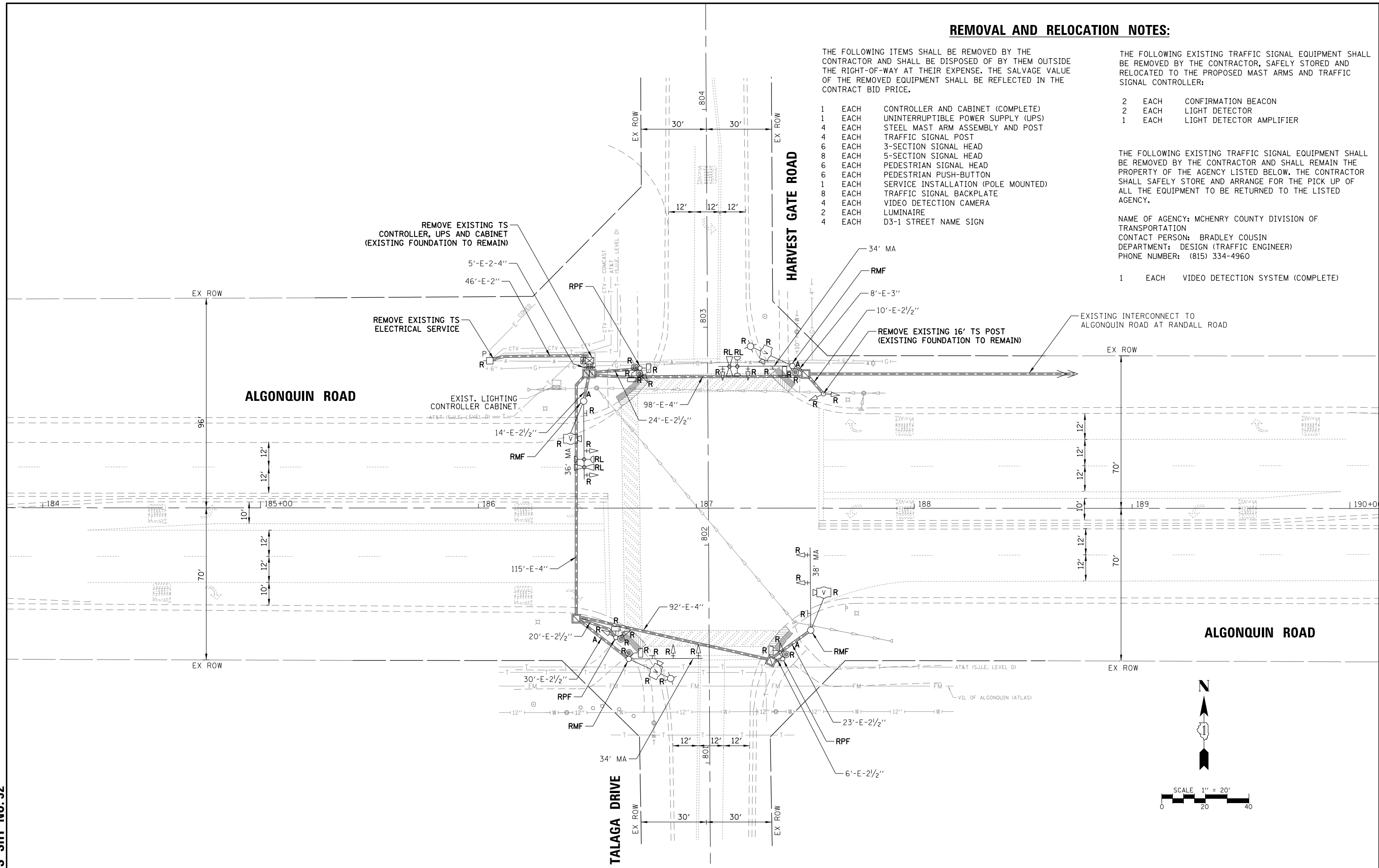
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

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

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: MCHENRY COUNTY DIVISION OF TRANSPORTATION
 CONTACT PERSON: BRADLEY COUSIN
 DEPARTMENT: DESIGN (TRAFFIC ENGINEER)
 PHONE NUMBER: (815) 334-4960

- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)



FILE NAME = TSS_Harvest Gate-01.REM

USER NAME = pandrews
 PLOT SCALE = 48"
 PLOT DATE = 1/12/2022

DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

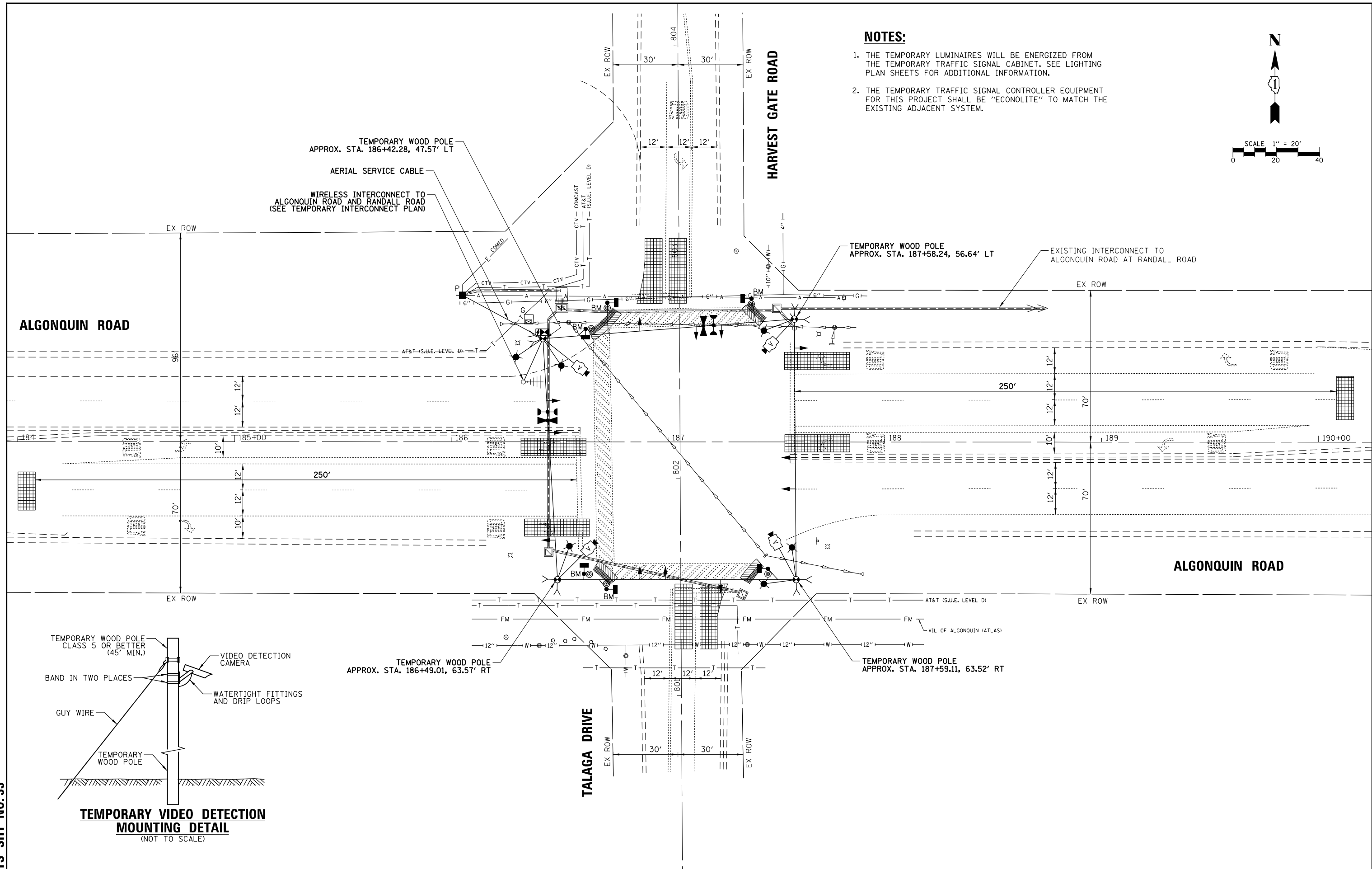
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC SIGNAL EQUIPMENT
 REMOVAL PLAN
 ALGONQUIN ROAD AT HARVEST GATE ROAD / TALAGA DRIVE
 SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

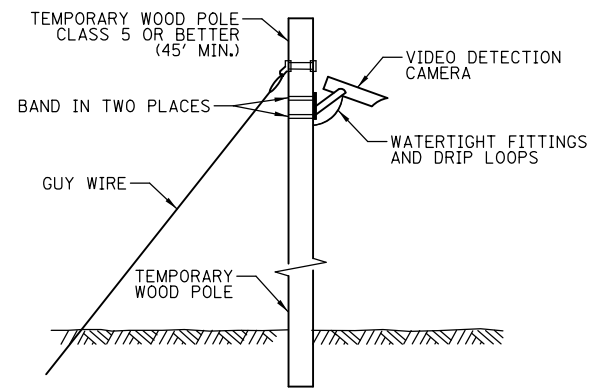
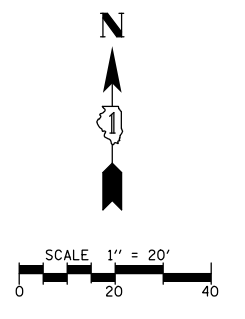
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	57
CONTRACT NO. 61H50				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	ADD. FILE NAME
DATE	BY	GRADES	CHECKED	BLM. NOTED	STRUCTURE	NOTATIONS	CHKD
NOTE BOOK NO.							

TS SHT NO.33



- NOTES:**
1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
 2. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



TEMPORARY VIDEO DETECTION MOUNTING DETAIL
(NOT TO SCALE)

FILE NAME = TSS_Harvest Gate-02.TMP	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN ALGONQUIN ROAD AT HARVEST GATE ROAD / TALAGA DRIVE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 48"	DRAWN - FPB	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	58
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -							CONTRACT NO. 61H50			
		DATE -	REVISED -							FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

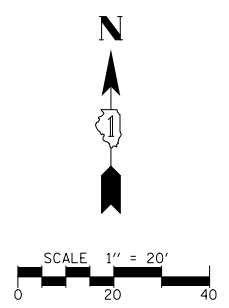
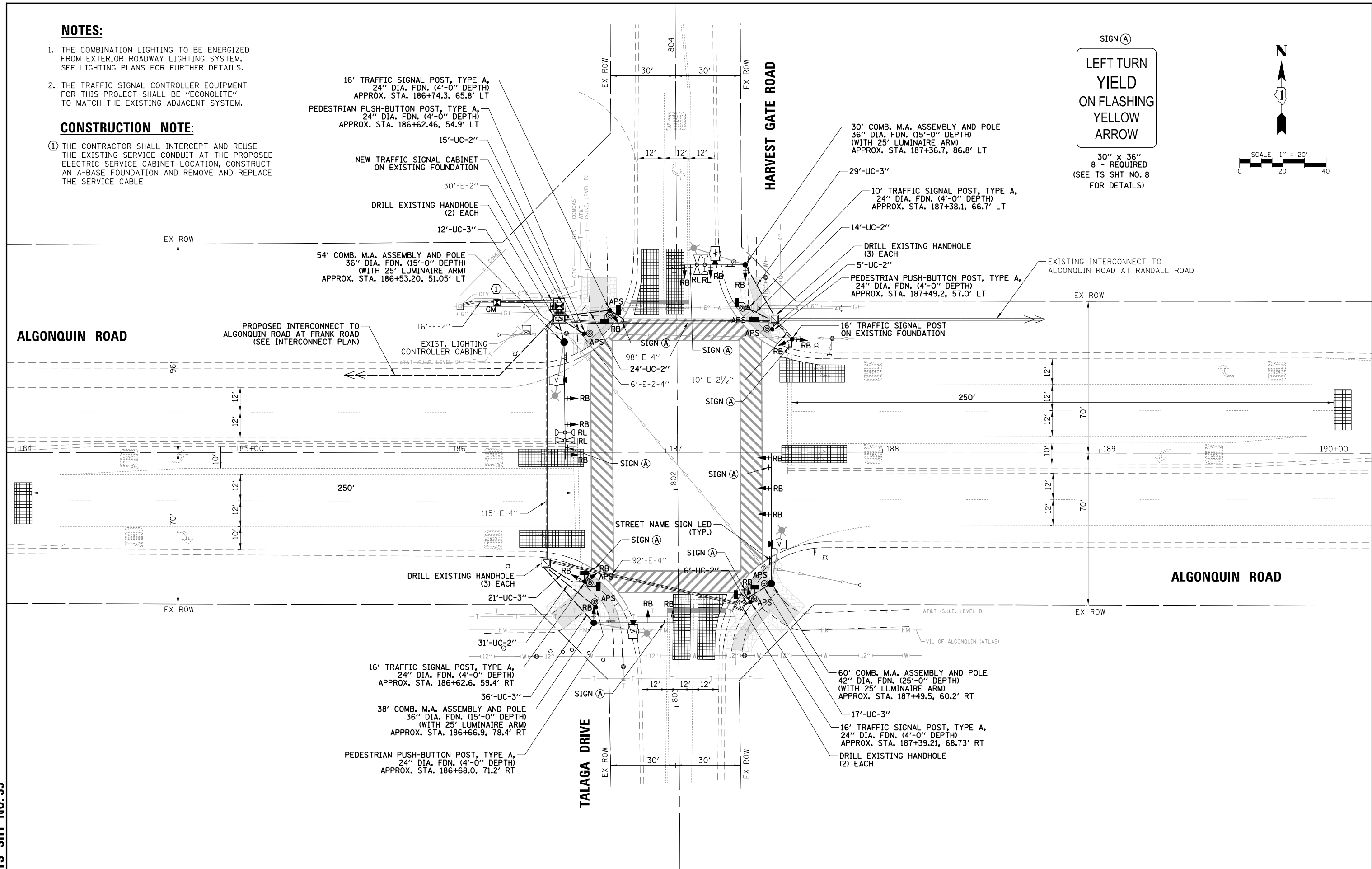
NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM EXTERIOR ROADWAY LIGHTING SYSTEM. SEE LIGHTING PLANS FOR FURTHER DETAILS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL INTERCEPT AND REUSE THE EXISTING SERVICE CONDUIT AT THE PROPOSED ELECTRIC SERVICE CABINET LOCATION, CONSTRUCT AN A-BASE FOUNDATION AND REMOVE AND REPLACE THE SERVICE CABLE

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	DATE	BY	SURVEYED	GRADES	CHECKED	DATE	BY	STRUCTURE	NOTATIONS	CHECKED



TS SHT NO.35

FILE NAME = TSS_Harvest Gate-04.MDD	USER NAME = pandrews	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN ALGONQUIN ROAD AT HARVEST GATE ROAD / TALAGA DRIVE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 48"	DRAWN - FPB	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	60
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -							CONTRACT NO. 61H50			
								FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____
 PLAN: _____ NOTE BOOK: _____
 NO. _____ RT. OF WAY CHECKED: _____
 NO. _____ ADD. FILE NAME: _____
 DATE: _____ BY: _____
 SURVEYED: _____ GRADINGS CHECKED: _____
 PROFILE: _____ NOTE BOOK: _____
 NO. _____ STRUCTURE NOTATIONS OKWD: _____

TS SHT NO. 36

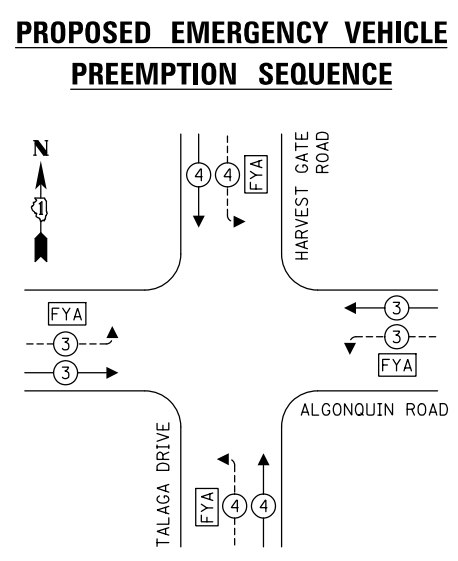
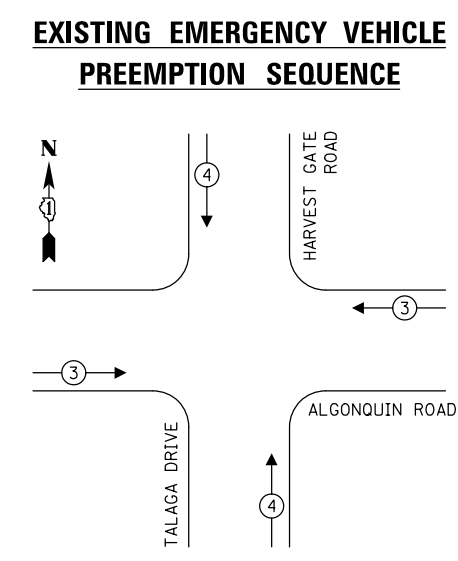
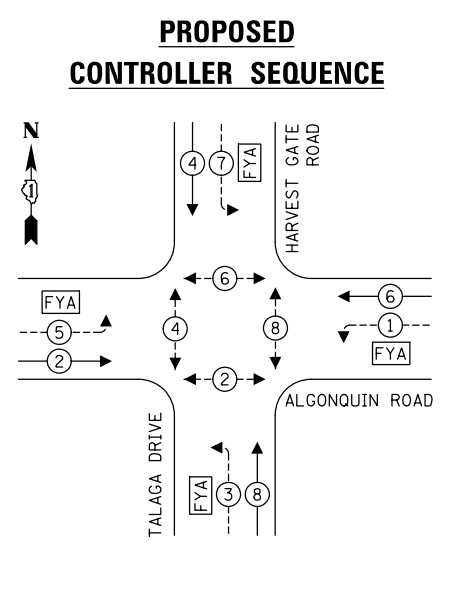
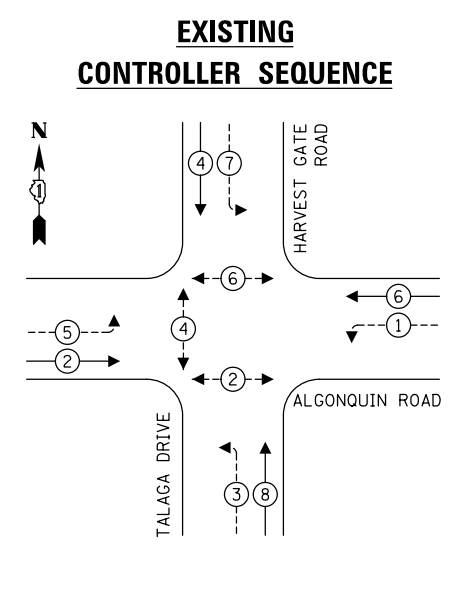
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	190	50	-
TOTAL =				614.0

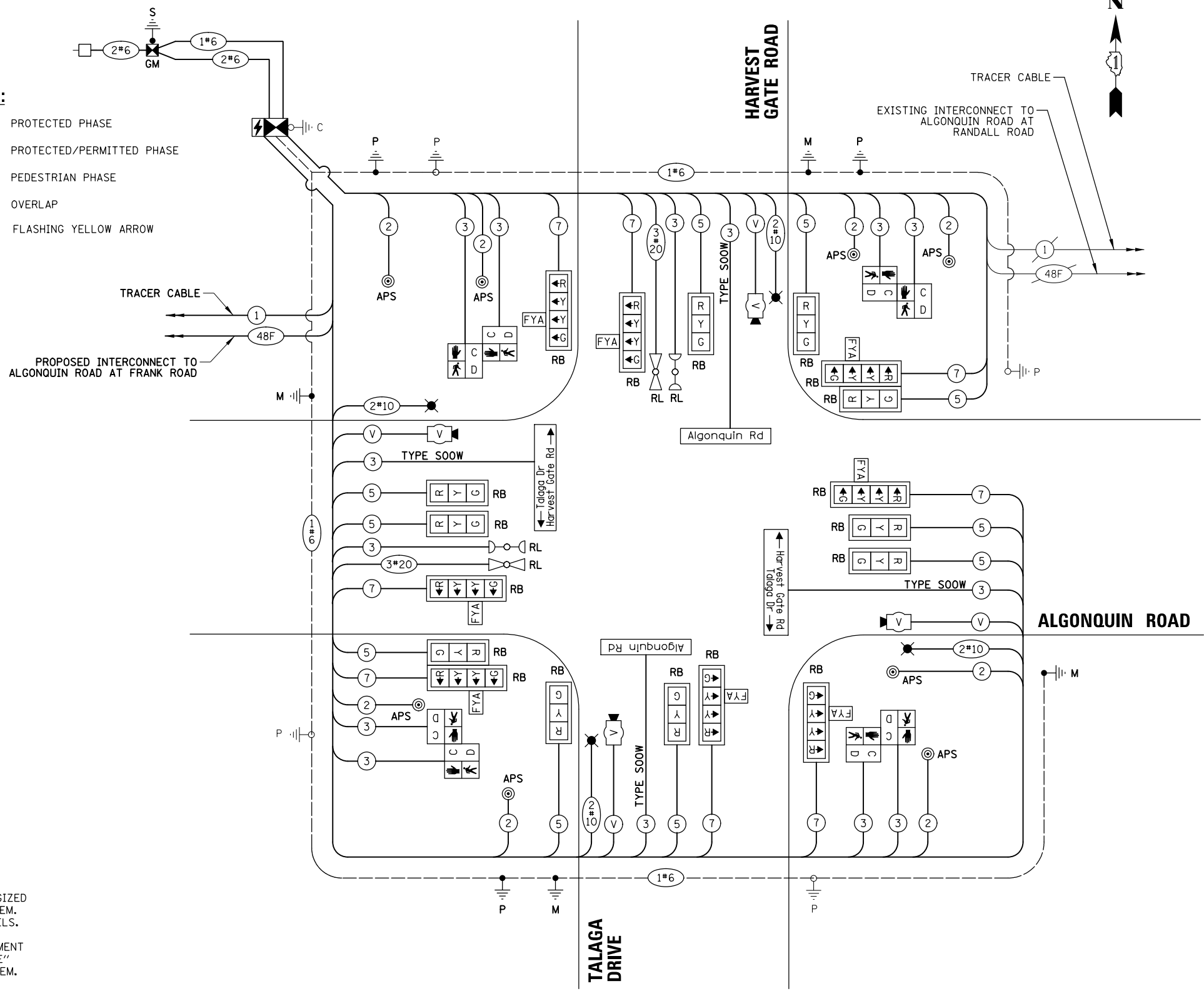
ENERGY COSTS TO:
 VILLAGE OF LAKE IN THE HILLS
 PUBLIC WORKS
 9010 Hallgus Road, Lake In the Hills, IL 60156
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

FILE NAME = TSS_Harvest Gate-05_CAB	USER NAME = pandrews	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.



- LEGEND:**
- ⊛ PROTECTED PHASE
 - ⊛- - - PROTECTED/PERMITTED PHASE
 - ⊛- - - PEDESTRIAN PHASE
 - ⊛ OL OVERLAP
 - FYA FLASHING YELLOW ARROW



- NOTES:**
- THE COMBINATION LIGHTING TO BE ENERGIZED FROM EXTERIOR ROADWAY LIGHTING SYSTEM. SEE LIGHTING PLANS FOR FURTHER DETAILS.
 - THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

① THE CONTRACTOR SHALL INTERCEPT AND REUSE THE EXISTING SERVICE CONDUIT AT THE PROPOSED ELECTRIC SERVICE CABINET LOCATION, CONSTRUCT AN A-BASE FOUNDATION AND REMOVE AND REPLACE THE SERVICE CABLE

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 ALGONQUIN ROAD AT HARVEST GATE ROAD/TALAGA DRIVE**

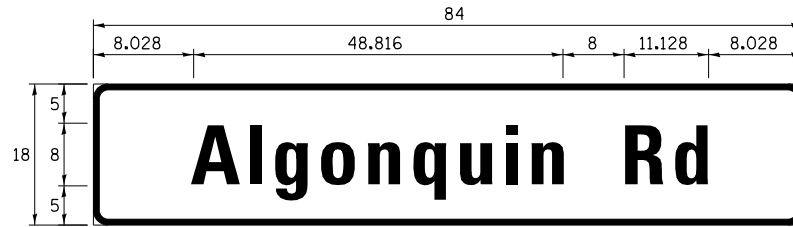
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	61
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

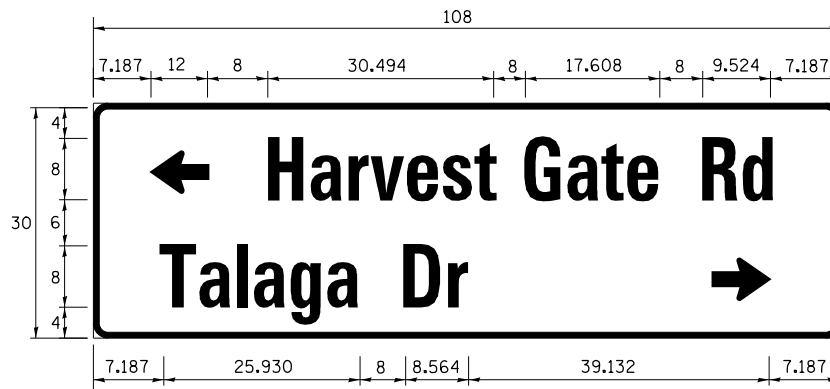
CONTRACT NO. 61H50

LED ILLUMINATED STREET NAME SIGNS

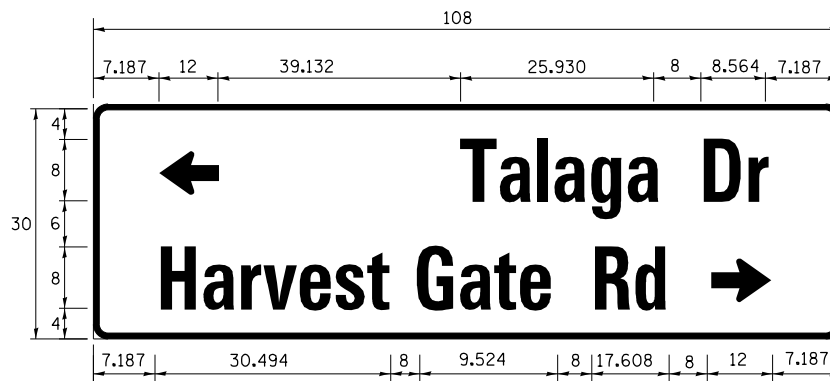
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	10.5	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
C	22.5	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
C	22.5	ZZ	1

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL DA	28
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	99.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	145
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1294
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1763
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2184
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1686
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	91
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	839
TRAFFIC SIGNAL POST, 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25
DRILL EXSTING HANDHOLE	EACH	10
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, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE	EACH	18
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXSTING SERVICE INSTALLATION	EACH	1
RELOCATE EXSTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXSTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6181
REMOVE EXSTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXSTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	432
**ROD AND CLEAN EXSTING CONDUIT	FOOT	300
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	771
INTERCEPT EXSTING CONDUIT	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	3
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LOCATING UNDERGROUND UTILITY	EACH	2
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
ETHERNET SWITCH, TYPE 2	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

**Nominal Quantity to be used as Directed by the Engineer

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED
DATE	BY	PLAN	NOTE BOOK	NO.	DATE	BY	PROFILE	NOTE BOOK	NO.
DATE	BY	STRUCTURE	NOTATIONS	CHKD	DATE	BY	STRUCTURE	NOTATIONS	CHKD

TS SHT NO.37

FILE NAME = TSS_Harvest Gate-06.STN	USER NAME = pandrews	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES AND MAST ARM MOUNTED STREET NAME SIGN ALGONQUIN ROAD AT HARVEST GATE ROAD / TALAGA DRIVE				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48"	DRAWN - FPB	REVISED -		SCALE: NOT TO SCALE	SHEET NO.	OF	SHEETS	STA.	TO	STA.	132	62
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -		ILLINOIS FED. AID PROJECT		CONTRACT NO. 61H50						
		DATE -	REVISED -										

REMOVAL AND RELOCATION 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 THE CONTRACT BID PRICE.

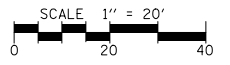
- 5 EACH STEEL MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 15 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION (POLE MOUNTED)
- 12 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH LUMINAIRE
- 4 EACH D3-1 STREET NAME SIGN
- 4 EACH R10-5 "LEFT TURN ON GREEN ARROW ONLY" SIGN

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTEN AGENCY.

- NAME OF AGENCY: MCHENRY COUNTY DIVISION OF TRANSPORTATION
 CONTACT PERSON: BRADLEY COUSIN
 DEPARTMENT: DESIGN (TRAFFIC ENGINEER)
 PHONE NUMBER: (815) 334-4960
- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)

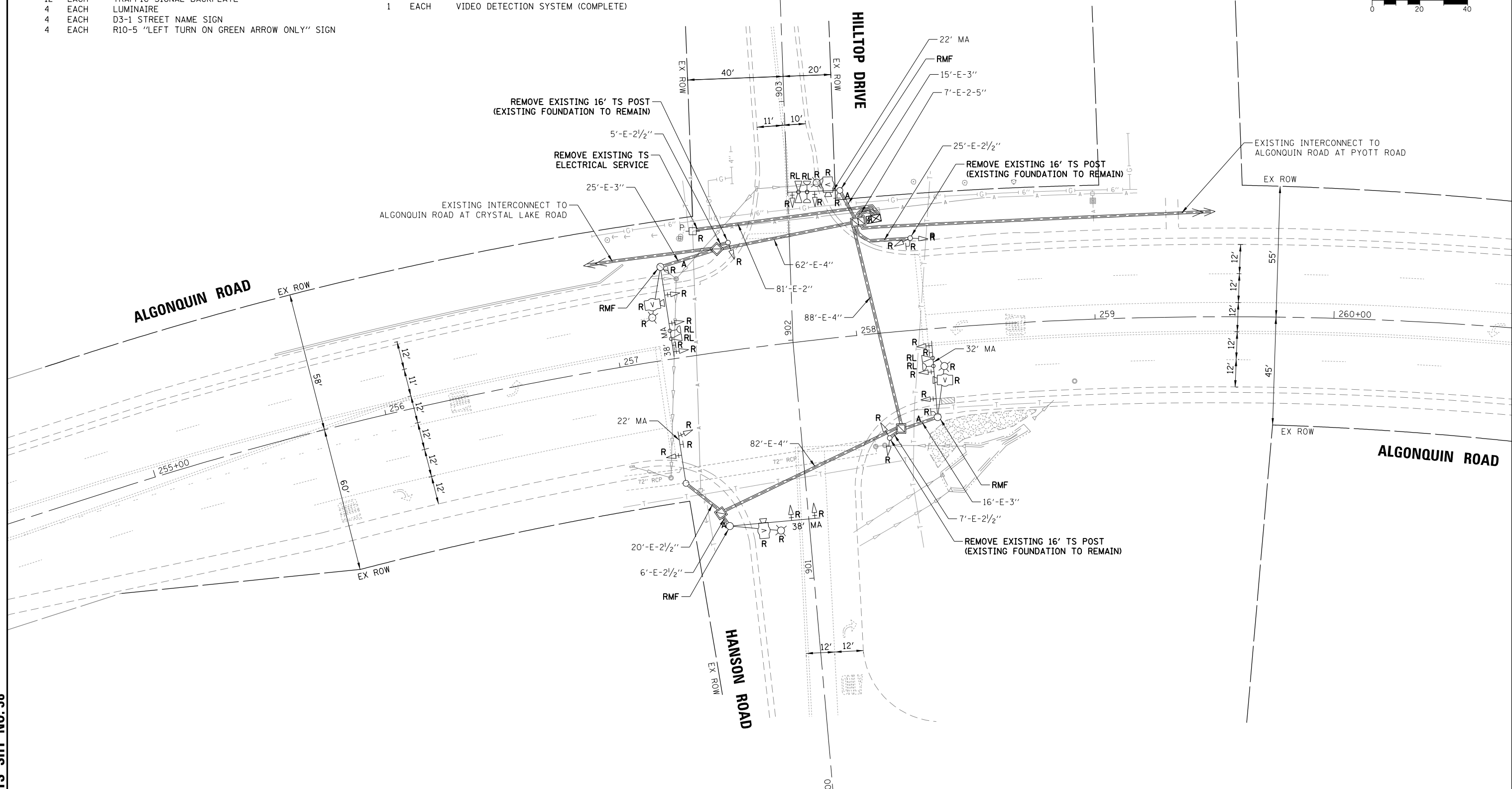
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

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

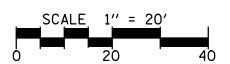


DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO. 38



FILE NAME = TS6_Hilltop-01_REM	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN ALGONQUIN ROAD AT HILLTOP DRIVE / HANSON ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	63
		CHECKED - GMZ	REVISED -							CONTRACT NO. 61H50			
		DATE -	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



SIGN (A)

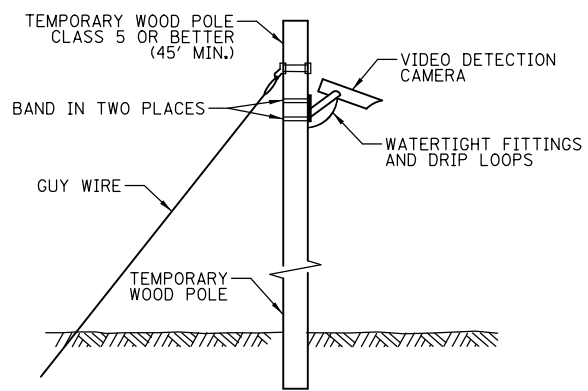
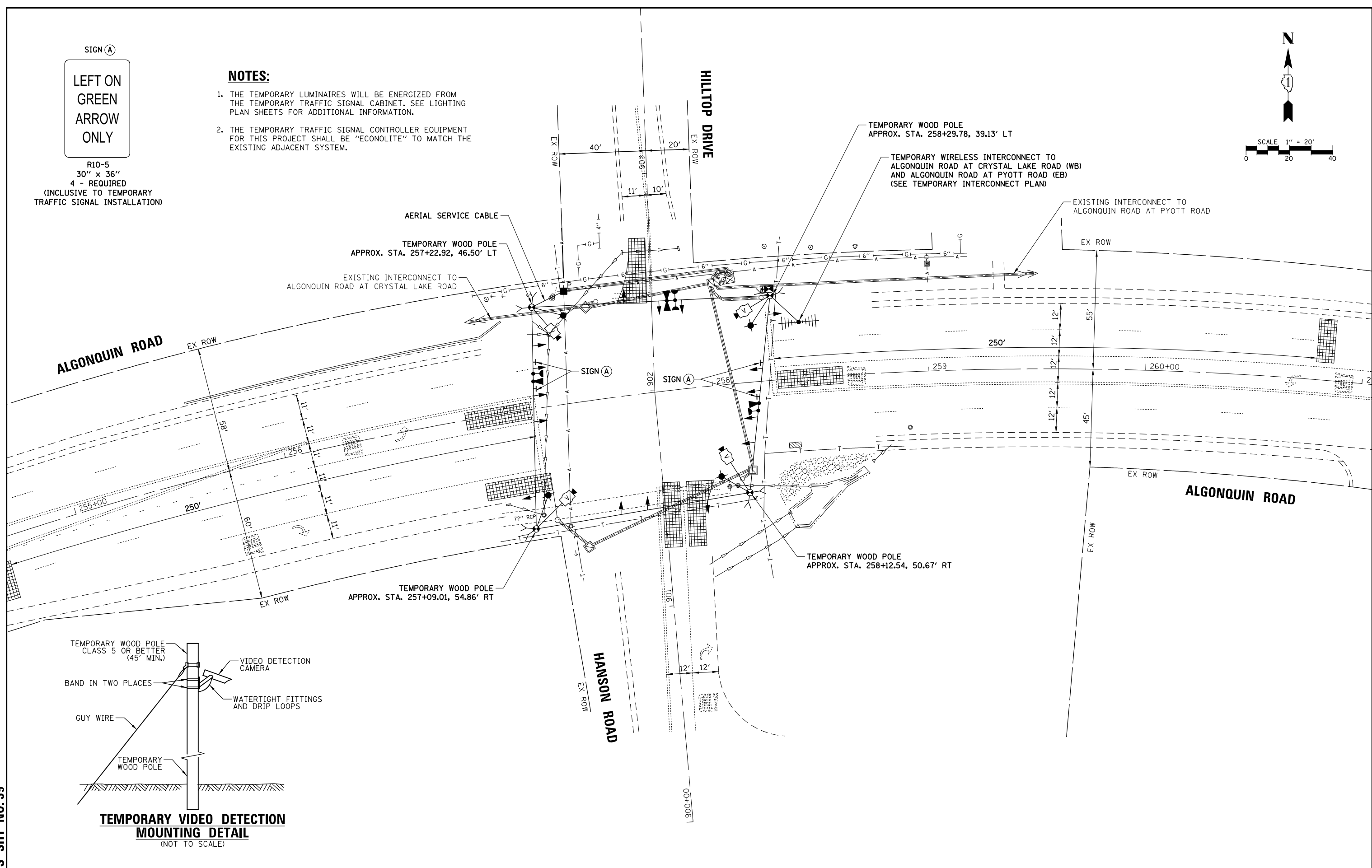
**LEFT ON GREEN
ARROW
ONLY**

R10-5
30" x 36"
4 - REQUIRED
(INCLUSIVE TO TEMPORARY
TRAFFIC SIGNAL INSTALLATION)

NOTES:

1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
2. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	DATE	BY	SURVEYED	GRADES	CHECKED	BLM. NOTED	STRUCTURE	NOTATIONS	CHKD
PLAN	NOTE BOOK NO.														
PROFILE	NOTE BOOK NO.														



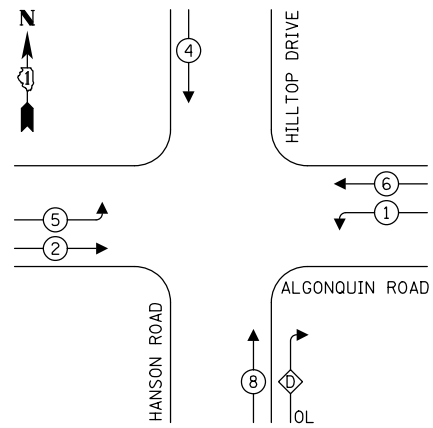
TEMPORARY VIDEO DETECTION MOUNTING DETAIL
(NOT TO SCALE)

TS SHT NO. 39

FILE NAME = TS6_Hilltop-02.TMP	USER NAME = pandrews	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN ALGONQUIN ROAD AT HILLTOP DRIVE / HANSON ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 48"	DRAWN - FPB	REVISED -				18-00480-00-TL	MCHENRY	132	64	
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -			SCALE: 1" = 40'		SHEET NO. OF SHEETS		STA. TO STA.	
		DATE -	REVISED -			CONTRACT NO. 61H50		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

DATE	BY	SURVEYED	ALIGNED	CHECKED
DATE	BY	GRADES	CHECKED	
DATE	BY	BLM. NOTED		
DATE	BY	STRUCTURE	NOTATIONS	OK/NO
DATE	BY	PROFILE		
DATE	BY	NOTE BOOK		
DATE	BY	NO.		

TEMPORARY CONTROLLER SEQUENCE



LEGEND:

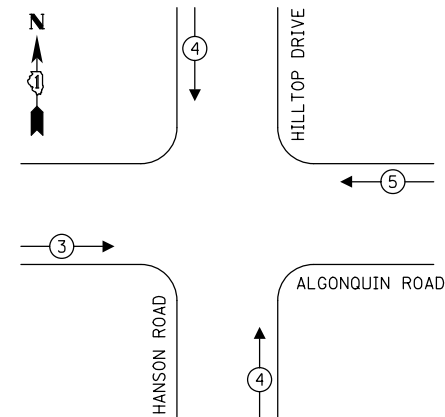
- ⊙* — PROTECTED PHASE
- ⊙*--- PROTECTED/PERMITTED PHASE
- ⊙*↔ PEDESTRIAN PHASE
- ⊙* OL OVERLAP

RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE
 D = 8 + 1

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



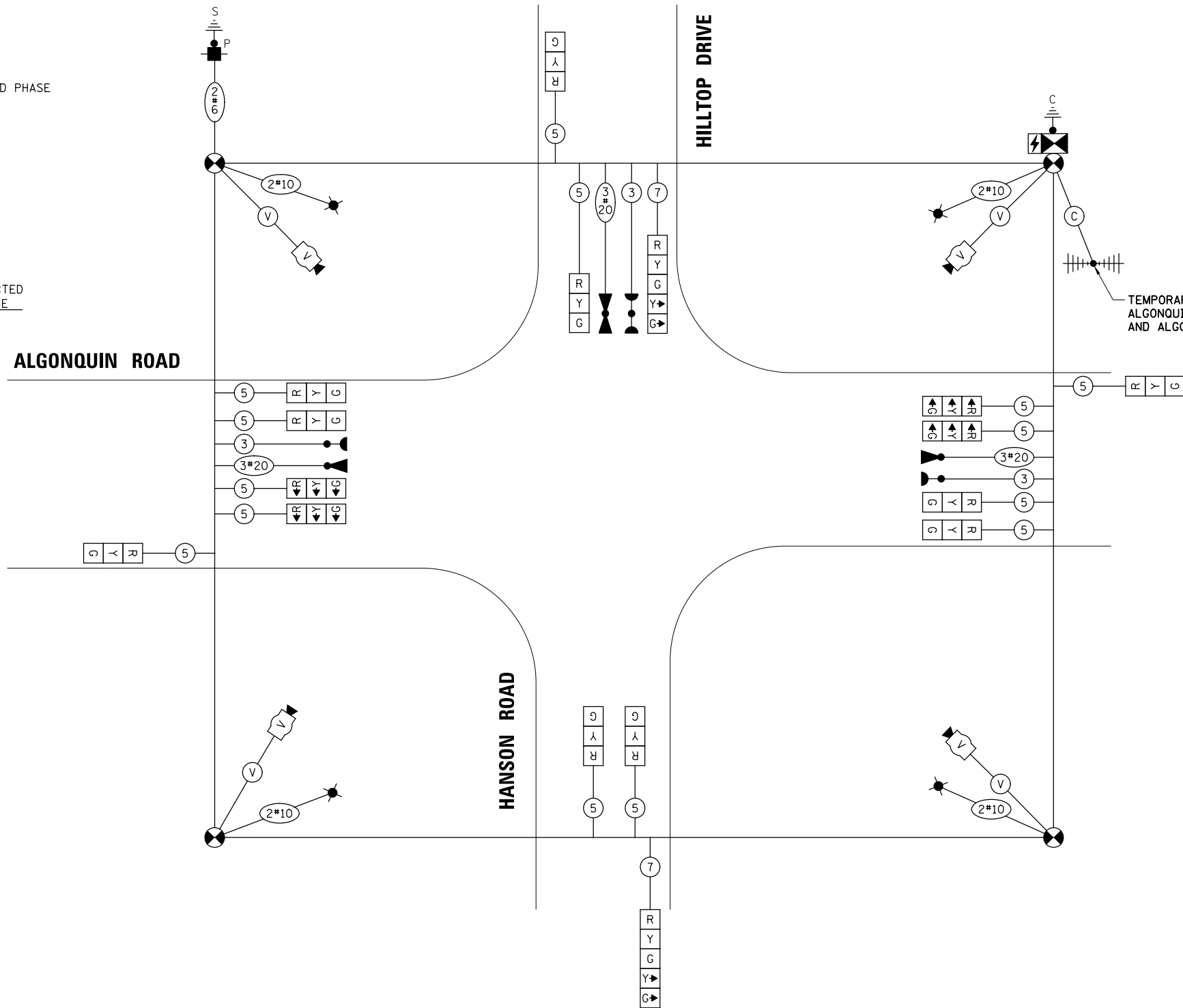
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				969.4

ENERGY COSTS TO:
 VILLAGE OF LAKE IN THE HILLS
 PUBLIC WORKS
 9010 Hallgus Road, Lake In the Hills, IL 60156
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: NEW PHONE
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

NOTES:

1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
2. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



TEMPORARY CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 40

FILE NAME = TS6_Hilltop-03.TCB

USER NAME = pandrows
 PLOT SCALE = 48"
 PLOT DATE = 1/12/2022

DESIGNED - TFS	REVISED -
DRAWN - FPB	REVISED -
CHECKED - GMZ	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ALGONQUIN ROAD AT HILLTOP DRIVE / HANSON ROAD
 SCALE: NOT TO SCALE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	65
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

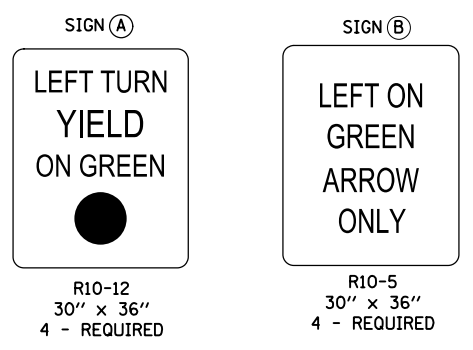
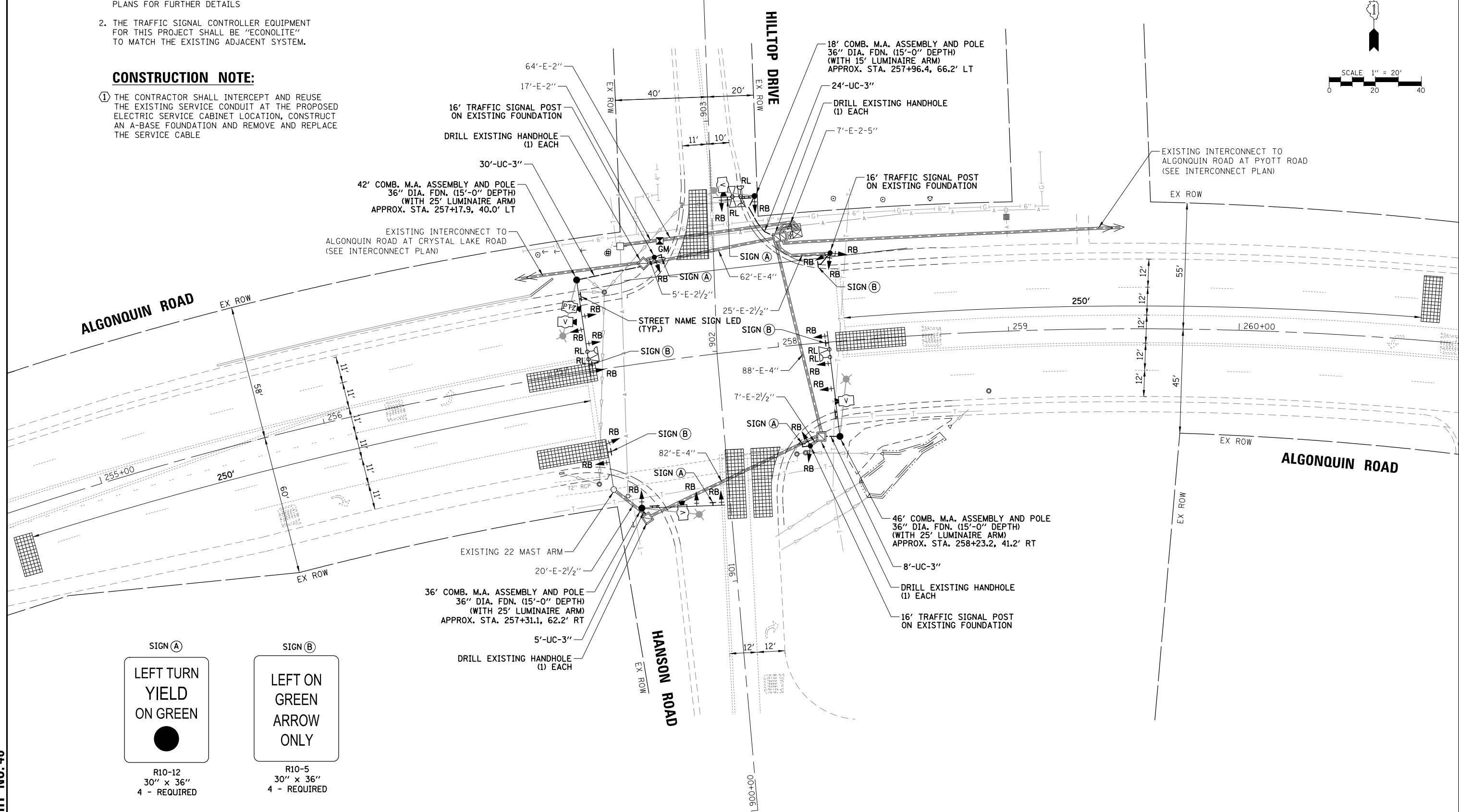
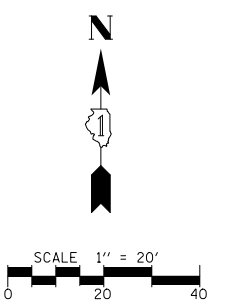


NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM TRAFFIC SIGNAL CABINET. SEE LIGHTING PLANS FOR FURTHER DETAILS
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL INTERCEPT AND REUSE THE EXISTING SERVICE CONDUIT AT THE PROPOSED ELECTRIC SERVICE CABINET LOCATION, CONSTRUCT AN A-BASE FOUNDATION AND REMOVE AND REPLACE THE SERVICE CABLE



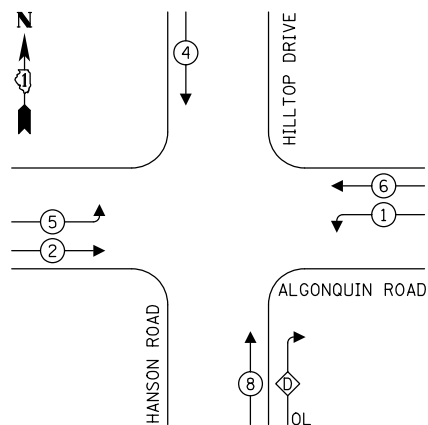
DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED	ADD. FILE NAME
DATE	BY	PROFILES	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D	
DATE	BY	PLAN	NOTE BOOK NO.			

TS SHT NO. 40

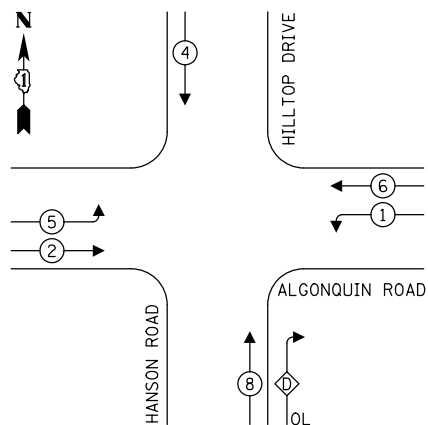
FILE NAME = T56_Hilltop-04_MOD	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN ALGONQUIN ROAD AT HILLTOP DRIVE / HANSON ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	66
		CHECKED - GMZ	REVISED -							CONTRACT NO. 61H50			
		DATE -	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DATE	BY	SURVEYED	ALIGNED	CHECKED	FILE NAME
DATE	BY	GRADES	CHECKED	NOTATIONS	OK/NO
DATE	BY	STRUCTURE	NOTATIONS	OK/NO	

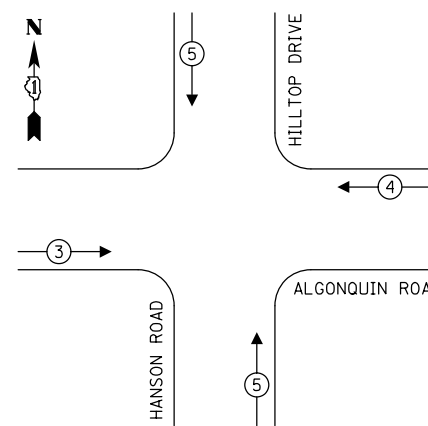
EXISTING CONTROLLER SEQUENCE



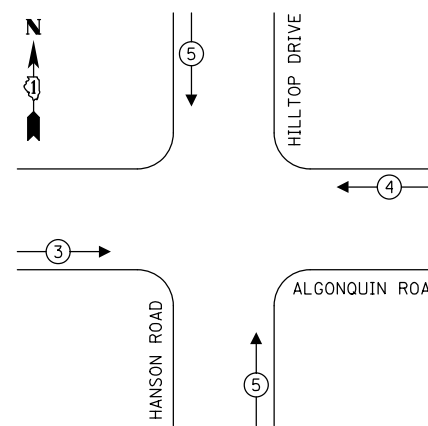
PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← ⊛ → PROTECTED PHASE
- ← ⊛ --- PROTECTED/PERMITTED PHASE
- ← ⊛ → PEDESTRIAN PHASE
- ← ⊛ OL OVERLAP
- [FYA] FLASHING YELLOW ARROW

RIGHT TURN OVERLAP PHASE DESIGNATION:

$$\text{OVERLAP LETTER} = \frac{\text{PERMISSIVE PHASE}}{8} + \frac{\text{PROTECTED PHASE}}{1}$$

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
SOLID ARROW (RED)	4	10	50	20.0
(GREEN & YELLOW)	12	10	10	12.0
FLASHING ARROW	-	-	-	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	190	50	380.0
TOTAL =				877.4

NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM TRAFFIC SIGNAL CABINET. SEE LIGHTING PLANS FOR FURTHER DETAILS
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL INTERCEPT AND REUSE THE EXISTING SERVICE CONDUIT AT THE PROPOSED ELECTRIC SERVICE CABINET LOCATION, CONSTRUCT AN A-BASE FOUNDATION AND REMOVE AND REPLACE THE SERVICE CABLE

TS SHT NO. 42

ENERGY COSTS TO:
 VILLAGE OF LAKE IN THE HILLS
 PUBLIC WORKS
 9010 Hallgus Road, Lake In the Hills, IL 60156
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

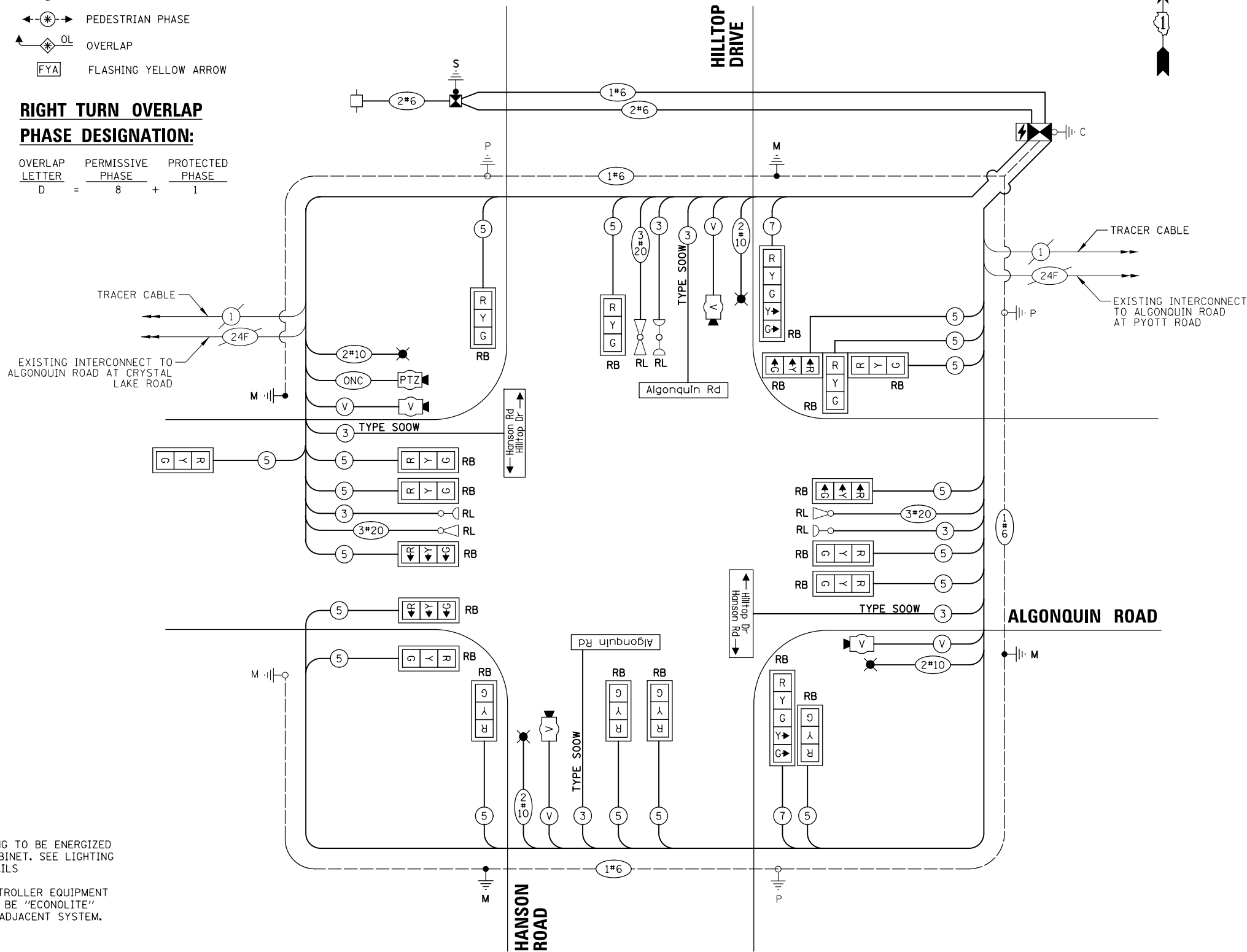
FILE NAME = TS6_Hilltop-05-CAB	USER NAME = pandrows	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
ALGONQUIN ROAD AT HILLTOP DRIVE / HANSON ROAD**

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

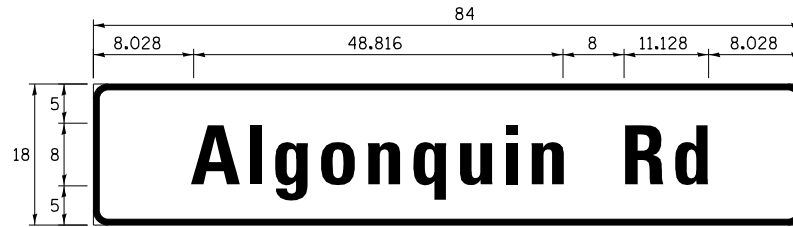
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	67
CONTRACT NO. 61H50				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



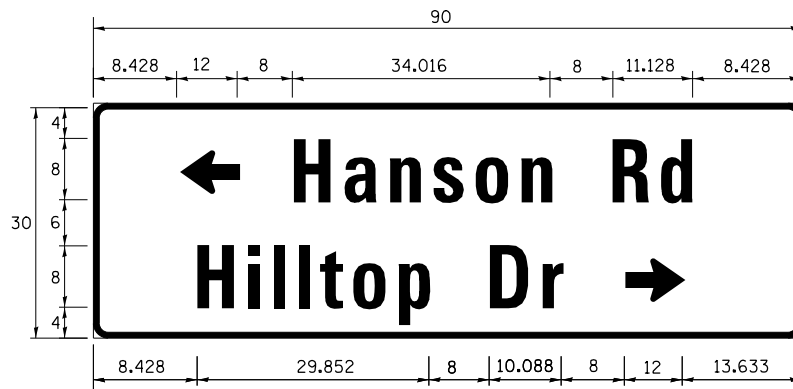
CABLE PLAN
(NOT TO SCALE)

LED ILLUMINATED STREET NAME SIGNS

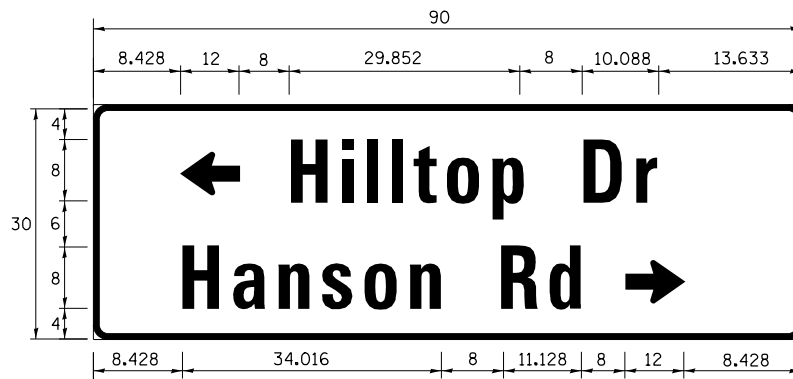
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	10.5	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	18.75	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	18.75	ZZ	1

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL DA	28
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	67
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	449
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3109
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	210.5
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	124.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	675
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 18 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	20
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4480
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	456.5
** ROD AND CLEAN EXISTING CONDUIT	FOOT	500
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	193
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	641.5
INTERCEPT EXISTING CONDUIT	EACH	1
LOCATING UNDERGROUND UTILITY	EACH	2
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
ETHERNET SWITCH, TYPE 2	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

**Nominal Quantity to be used as Directed by the Engineer

DATE	BY	SURVEYED	ALIGNED	CHECKED
DATE	BY	GRADES	CHECKED	
DATE	BY	BLM. NOTED		
DATE	BY	STRUCTURE	NOTATIONS	CHK'D
DATE	BY	PLAN	NOTE BOOK	NO.
DATE	BY	PROFILE	NOTE BOOK	NO.

TS SHT NO.43

FILE NAME = TS6_Hilltop-06.STN	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES AND MAST ARM MOUNTED STREET NAME SIGN ALGONQUIN ROAD AT HILLTOP DRIVE /HANSON ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 48"	DRAWN - FPB	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF	SHEETS	STA.	TO	STA.	132	68
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -		CONTRACT NO. 61H50			ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -		FED. ROAD DIST. NO.								

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED	ADD. FILE NAME
DATE	BY	PLAN	NOTE BOOK	NO.		
DATE	BY	PROFILE	NOTE BOOK	NO.		
DATE	BY	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D		

TS SHT NO. 44

REMOVAL AND RELOCATION 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 THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 3 EACH STEEL MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 9 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 4-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION (POLE MOUNTED)
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 3 EACH LUMINAIRE
- 4 EACH D3-1 STREET NAME SIGN

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION, PROPOSED MAST ARMS OR PROPOSED TRAFFIC SIGNAL CONTROLLER AS NOTED ON THE PLANS:

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH RADAR VEHICLE DETECTOR
- 1 EACH EVP WIRELESS TRANSMITTER

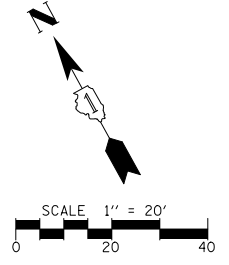
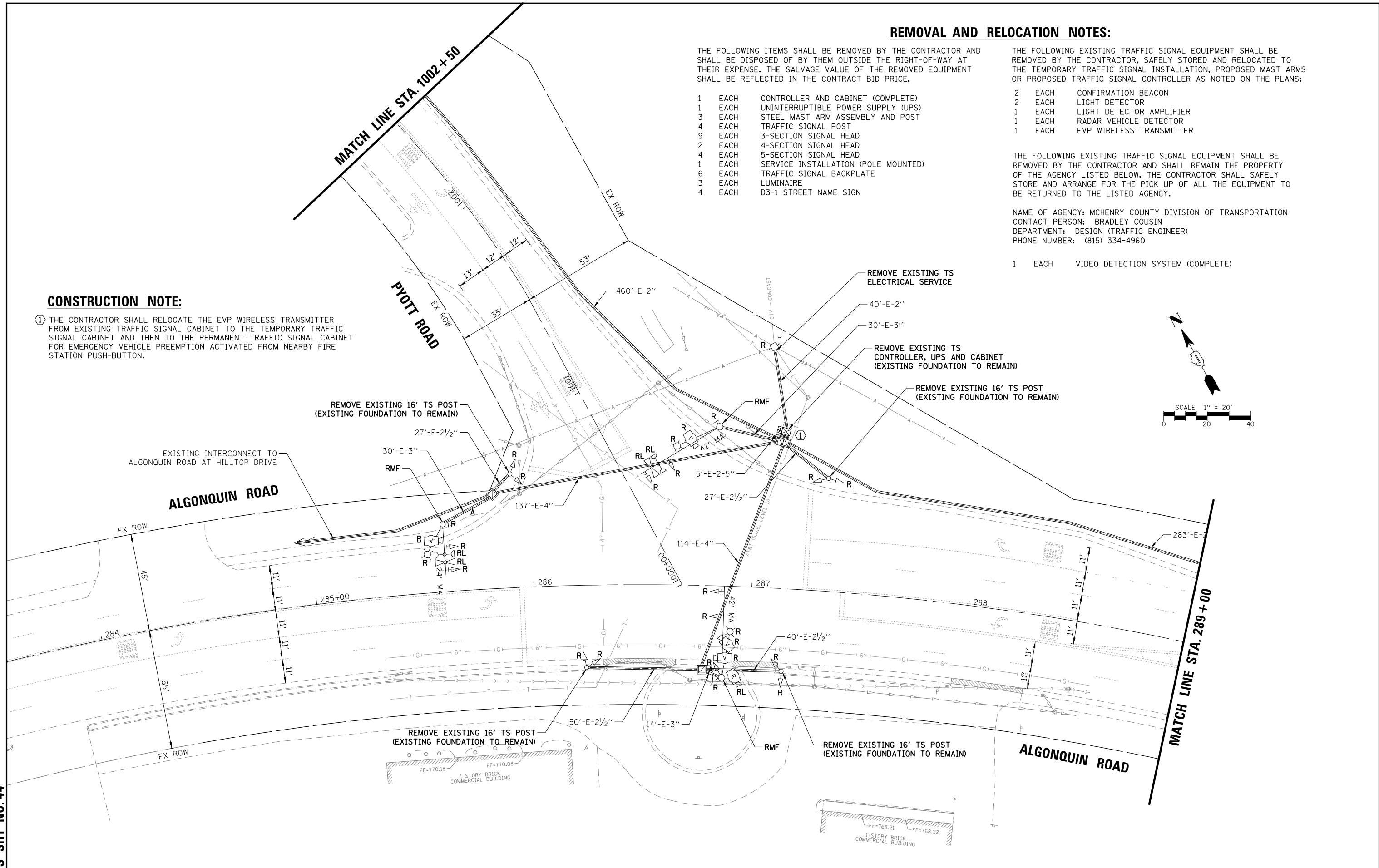
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: MCHENRY COUNTY DIVISION OF TRANSPORTATION
 CONTACT PERSON: BRADLEY COUSIN
 DEPARTMENT: DESIGN (TRAFFIC ENGINEER)
 PHONE NUMBER: (815) 334-4960

- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)

CONSTRUCTION NOTE:

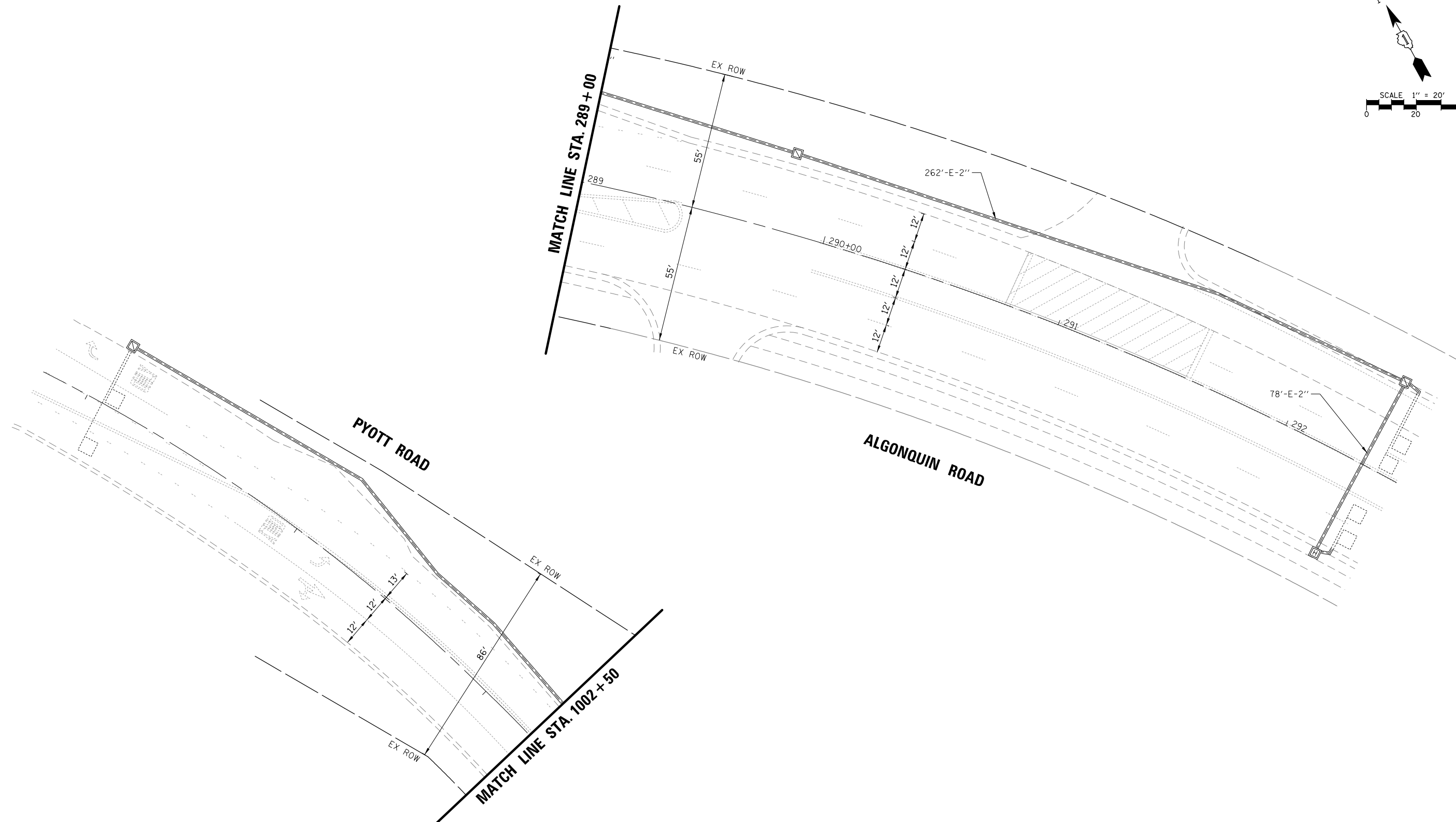
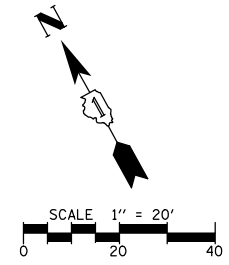
- ① THE CONTRACTOR SHALL RELOCATE THE EVP WIRELESS TRANSMITTER FROM EXISTING TRAFFIC SIGNAL CABINET TO THE TEMPORARY TRAFFIC SIGNAL CABINET AND THEN TO THE PERMANENT TRAFFIC SIGNAL CABINET FOR EMERGENCY VEHICLE PREEMPTION ACTIVATED FROM NEARBY FIRE STATION PUSH-BUTTON.



FILE NAME = TS7_Pyott-01.REM1	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN ALGONQUIN ROAD AT PYOTT ROAD (SHEET 1 OF 2)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 48"	DRAWN - FPB	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	69
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -							CONTRACT NO. 61H50			
		DATE -	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
PLAN	ALIGNED	DATE
	RT. OF WAY CHECKED	BY
NOTE BOOK	NO.	
	NO.	
STRUCTURE NOTATIONS OKWD		

TS SHT NO. 45



FILE NAME = TS7_Pyott-02.REM2

USER NAME = pandrows	DESIGNED - TFS	REVISED -
PLOT SCALE = 48"	DRAWN - FPB	REVISED -
PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

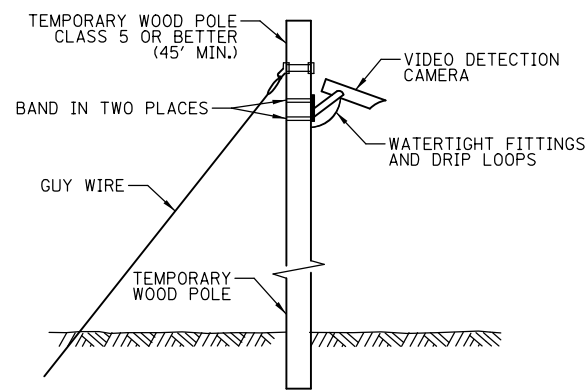
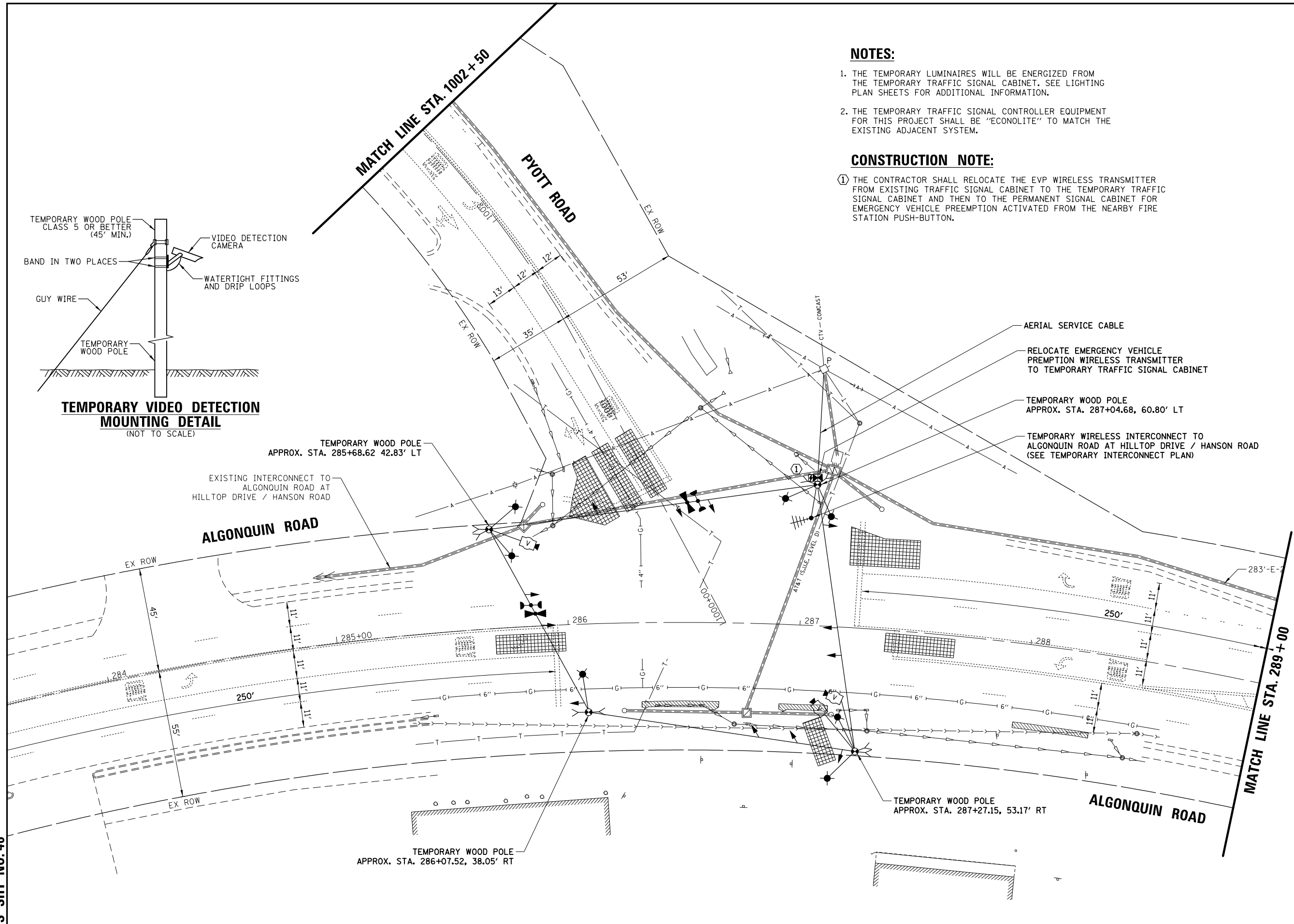
**EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
ALGONQUIN ROAD AT PYOTT ROAD
(SHEET 2 OF 2)**

SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	70
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61H50	

DATE	BY	DATE	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED	ADD. FILE NAME
	BY						
DATE	BY	DATE	SURVEYED	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D	NO.
	BY						

TS SHT NO. 46



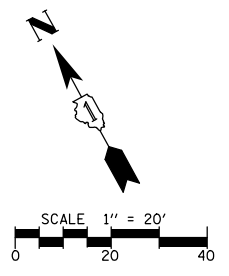
TEMPORARY VIDEO DETECTION MOUNTING DETAIL
(NOT TO SCALE)

NOTES:

1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
2. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

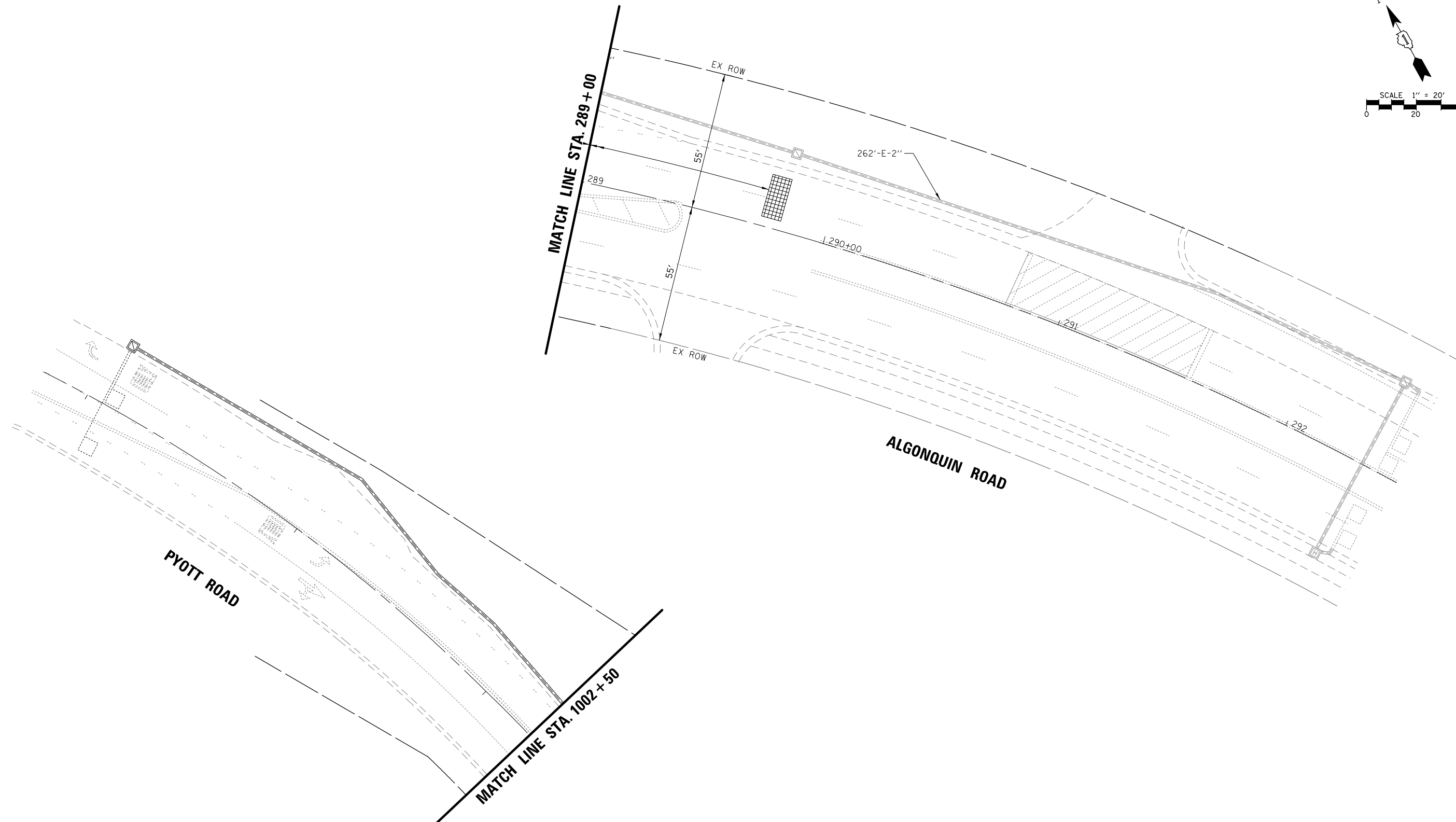
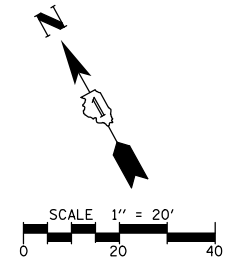
CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL RELOCATE THE EVP WIRELESS TRANSMITTER FROM EXISTING TRAFFIC SIGNAL CABINET TO THE TEMPORARY TRAFFIC SIGNAL CABINET AND THEN TO THE PERMANENT SIGNAL CABINET FOR EMERGENCY VEHICLE PREEMPTION ACTIVATED FROM THE NEARBY FIRE STATION PUSH-BUTTON.



FILE NAME = TS7_Pyott-03.TMP1	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN ALGONQUIN ROAD AT PYOTT ROAD (SHEET 1 OF 2)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 48"	CHECKED - GMZ	REVISIED -	REVISIED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	71
PLOT DATE = 1/12/2022	DATE -	REVISIED -	REVISIED -							CONTRACT NO. 61H50			
										FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
PLAN	SURVEYED	BY	DATE
	ALIGNMENT CHECKED		
TS SHT NO. 47	RT. OF WAY CHECKED		
	ADD. FILE NAME		

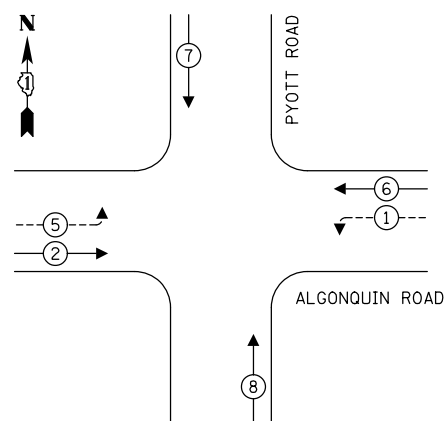


TS SHT NO. 47

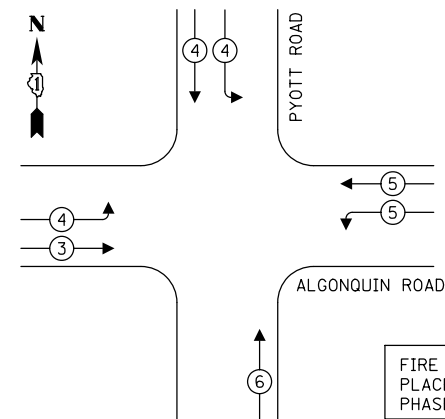
FILE NAME = TS7_Pyott-04.TMP2	USER NAME = pandrews	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN ALGONQUIN ROAD AT PYOTT ROAD (SHEET 2 OF 2)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 48"	DRAWN - FPB	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF	SHEETS	STA.	TO	STA.	18-00480-00-TL	132	72
	PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -									CONTRACT NO. 61H50		
		DATE -	REVISED -									FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

DATE _____ BY _____
 SURVEYED _____ ALIGNED _____ CHECKED _____
 RT. OF WAY CHECKED _____
 PLAN NOTE BOOK NO. _____
 DATE _____ BY _____
 SURVEYED _____ GRADES CHECKED _____
 BLK. NOTED _____ STRUCTURE NOTATIONS OK/NO
 PROFILE NOTE BOOK NO. _____

TEMPORARY CONTROLLER SEQUENCE



**TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



LEGEND:

- ← (circle with star) PROTECTED PHASE
- ← (circle with star and dashed line) PROTECTED/PERMITTED PHASE
- ← (circle with star and arrow) PEDESTRIAN PHASE
- ← (circle with star and OL) OVERLAP

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	6	250	50	750.0
TOTAL =				1177.8

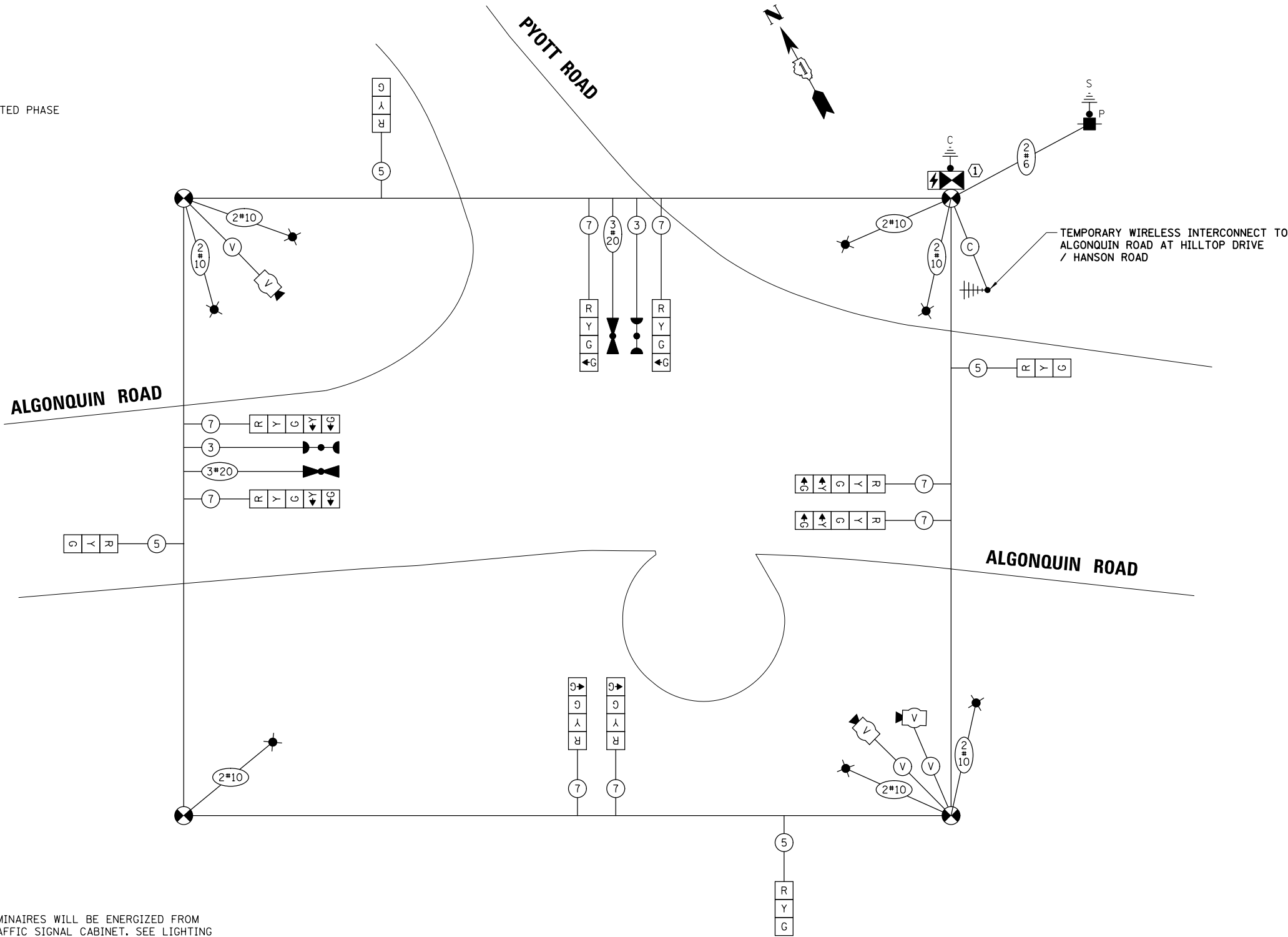
NOTES:

1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
2. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL RELOCATE THE EVP WIRELESS TRANSMITTER FROM EXISTING TRAFFIC SIGNAL CABINET TO THE TEMPORARY TRAFFIC SIGNAL CABINET AND THEN TO THE PERMANENT SIGNAL CABINET FOR EMERGENCY VEHICLE PREEMPTION ACTIVATED FROM THE NEARBY FIRE STATION PUSH-BUTTON.

ENERGY COSTS TO:
 VILLAGE OF LAKE IN THE HILLS
 PUBLIC WORKS
 9010 Hallgus Road, Lake In the Hills, IL 60156
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: NEW PHONE
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---



TEMPORARY CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 48

FILE NAME = TS7_Pyott-05_TCB	USER NAME = pandrows	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
ALGONQUIN ROAD AT PYOTT ROAD**

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	73
CONTRACT NO. 61H50				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	ADD. FILE NAME
DATE	BY	PLANNED	NOTE BOOK	NO.			
DATE	BY	PROFILE	NOTE BOOK	NO.			
DATE	BY	GRADES	CHECKED				
DATE	BY	STRUCTURE	NOTATIONS	OKWD			

TS SHT NO. 49

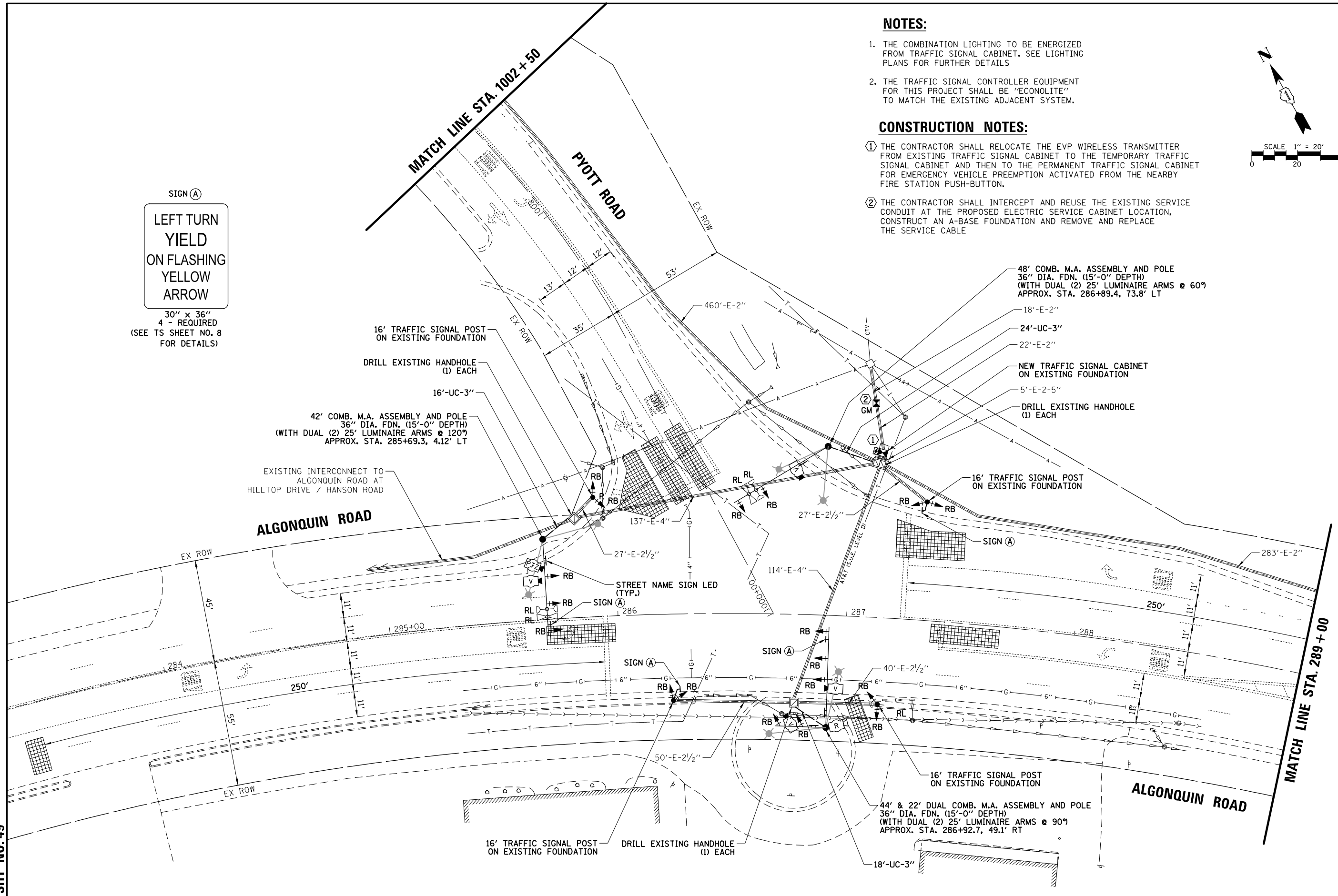
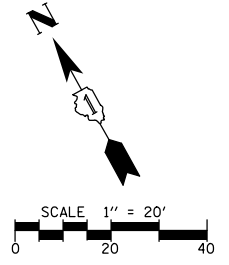
SIGN (A)
LEFT TURN
YIELD
ON FLASHING
YELLOW
ARROW
 30" x 36"
 4 - REQUIRED
 (SEE TS SHEET NO. 8
 FOR DETAILS)

NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM TRAFFIC SIGNAL CABINET. SEE LIGHTING PLANS FOR FURTHER DETAILS
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL RELOCATE THE EVP WIRELESS TRANSMITTER FROM EXISTING TRAFFIC SIGNAL CABINET TO THE TEMPORARY TRAFFIC SIGNAL CABINET AND THEN TO THE PERMANENT TRAFFIC SIGNAL CABINET FOR EMERGENCY VEHICLE PREEMPTION ACTIVATED FROM THE NEARBY FIRE STATION PUSH-BUTTON.
- ② THE CONTRACTOR SHALL INTERCEPT AND REUSE THE EXISTING SERVICE CONDUIT AT THE PROPOSED ELECTRIC SERVICE CABINET LOCATION, CONSTRUCT AN A-BASE FOUNDATION AND REMOVE AND REPLACE THE SERVICE CABLE



FILE NAME = TS7_Pyott-06.MDD1
 USER NAME = pandrows
 PLOT SCALE = 48"
 PLOT DATE = 1/12/2022

DESIGNED - TFS	REVISED -
DRAWN - FPB	REVISED -
CHECKED - GMZ	REVISED -
DATE -	REVISED -

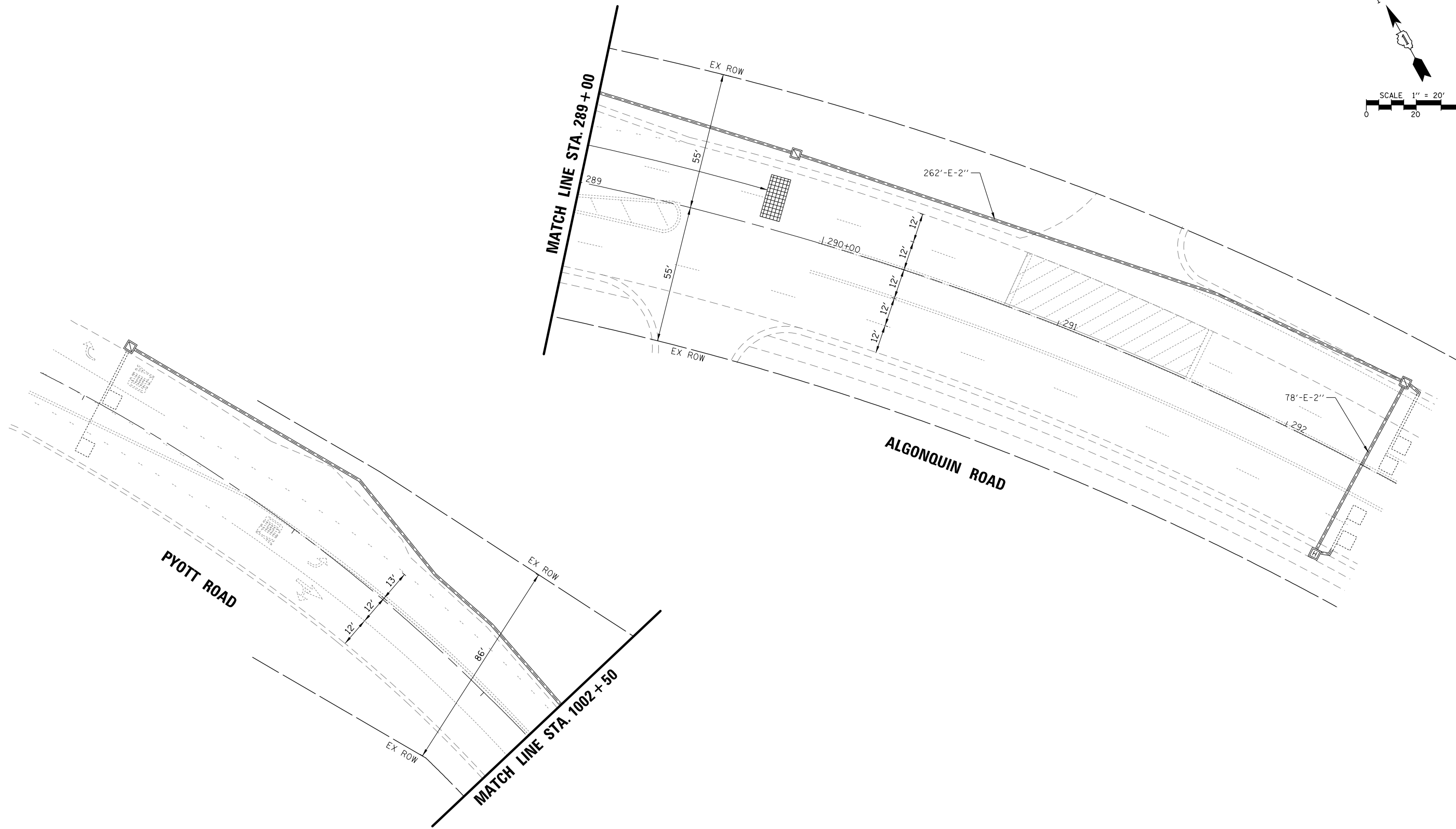
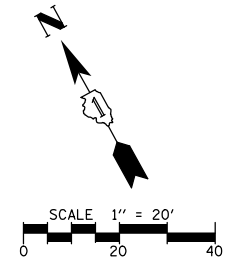
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
ALGONQUIN ROAD AT PYOTT ROAD
(SHEET 1 OF 2)
 SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	74
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H50	

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE NOTATIONS OK/NO	
PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	BY
NO.	RT. OF WAY CHECKED	
	ADD. FILE NAME	

TS SHT NO. 50



FILE NAME = TS7_Pyott-07.MDD2

USER NAME = pandrews
 PLOT SCALE = 48"
 PLOT DATE = 1/12/2022

DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

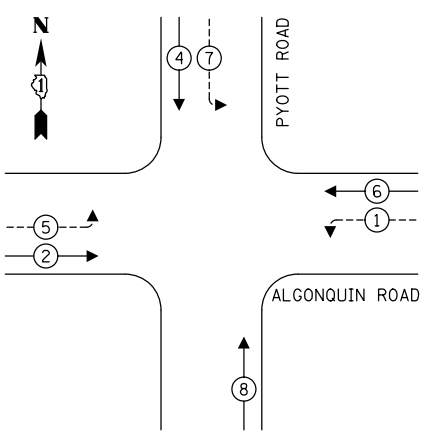
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
 ALGONQUIN ROAD AT PYOTT ROAD
 (SHEET 2 OF 2)
 SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

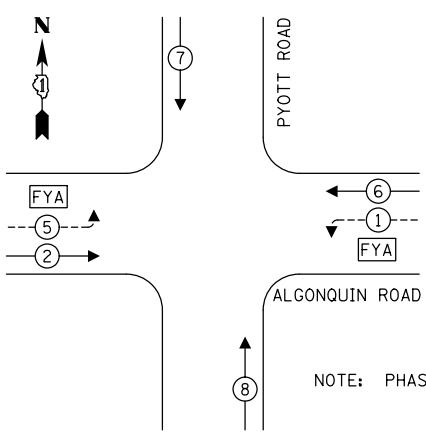
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	75
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61H50	

DATE: _____ BY: _____
 SURVEYED _____ ALIGNED _____ CHECKED _____
 RT. OF WAY CHECKED _____
 DATE: _____ BY: _____
 PLAN NO. _____
 NOTE BOOK NO. _____
 DATE: _____ BY: _____
 PROFILE SURVEYED _____ GRADES CHECKED _____
 BLM. NOTED _____ STRUCTURE NOTATIONS OK/NO

EXISTING CONTROLLER SEQUENCE



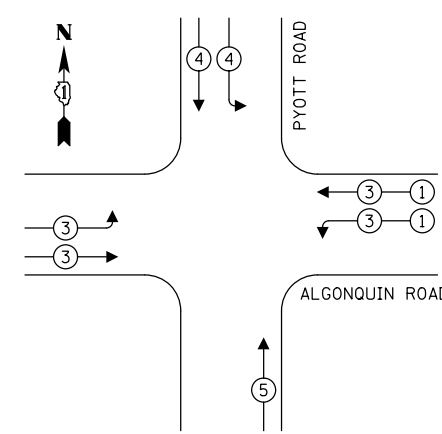
PROPOSED CONTROLLER SEQUENCE



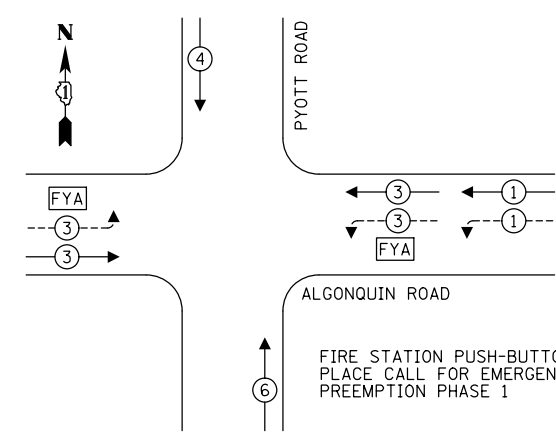
- LEGEND:**
- ← ⊙ → PROTECTED PHASE
 - ← ⊙ ⊙ → PROTECTED/PERMITTED PHASE
 - ← ⊙ → PEDESTRIAN PHASE
 - ← ⊙ OL → OVERLAP
 - FYA FLASHING YELLOW ARROW

NOTE: PHASES 7 AND 8 SHALL BE "SPLIT-PHASED".

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



FIRE STATION PUSH-BUTTON SHALL PLACE CALL FOR EMERGENCY VEHICLE PREEMPTION PHASE 1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
SOLID ARROW (RED)	4	10	50	20.0
(GREEN & YELLOW)	8	10	10	8.0
FLASHING ARROW	4	10	5	2.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	190	50	380.0
TOTAL =				863.5

NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM TRAFFIC SIGNAL CABINET. SEE LIGHTING PLANS FOR FURTHER DETAILS
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL RELOCATE THE EVP WIRELESS TRANSMITTER FROM EXISTING TRAFFIC SIGNAL CABINET TO THE TEMPORARY TRAFFIC SIGNAL CABINET AND THEN TO THE PERMANENT TRAFFIC SIGNAL CABINET FOR EMERGENCY VEHICLE PREEMPTION ACTIVATED FROM THE NEARBY FIRE STATION PUSH-BUTTON.
- ② THE CONTRACTOR SHALL INTERCEPT AND REUSE THE EXISTING SERVICE CONDUIT AT THE PROPOSED ELECTRIC SERVICE CABINET LOCATION, CONSTRUCT AN A-BASE FOUNDATION AND REMOVE AND REPLACE THE SERVICE CABLE

ENERGY COSTS TO:
 VILLAGE OF LAKE IN THE HILLS
 PUBLIC WORKS
 9010 Hallgus Road, Lake In the Hills, IL 60156
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

TS SHT NO. 51

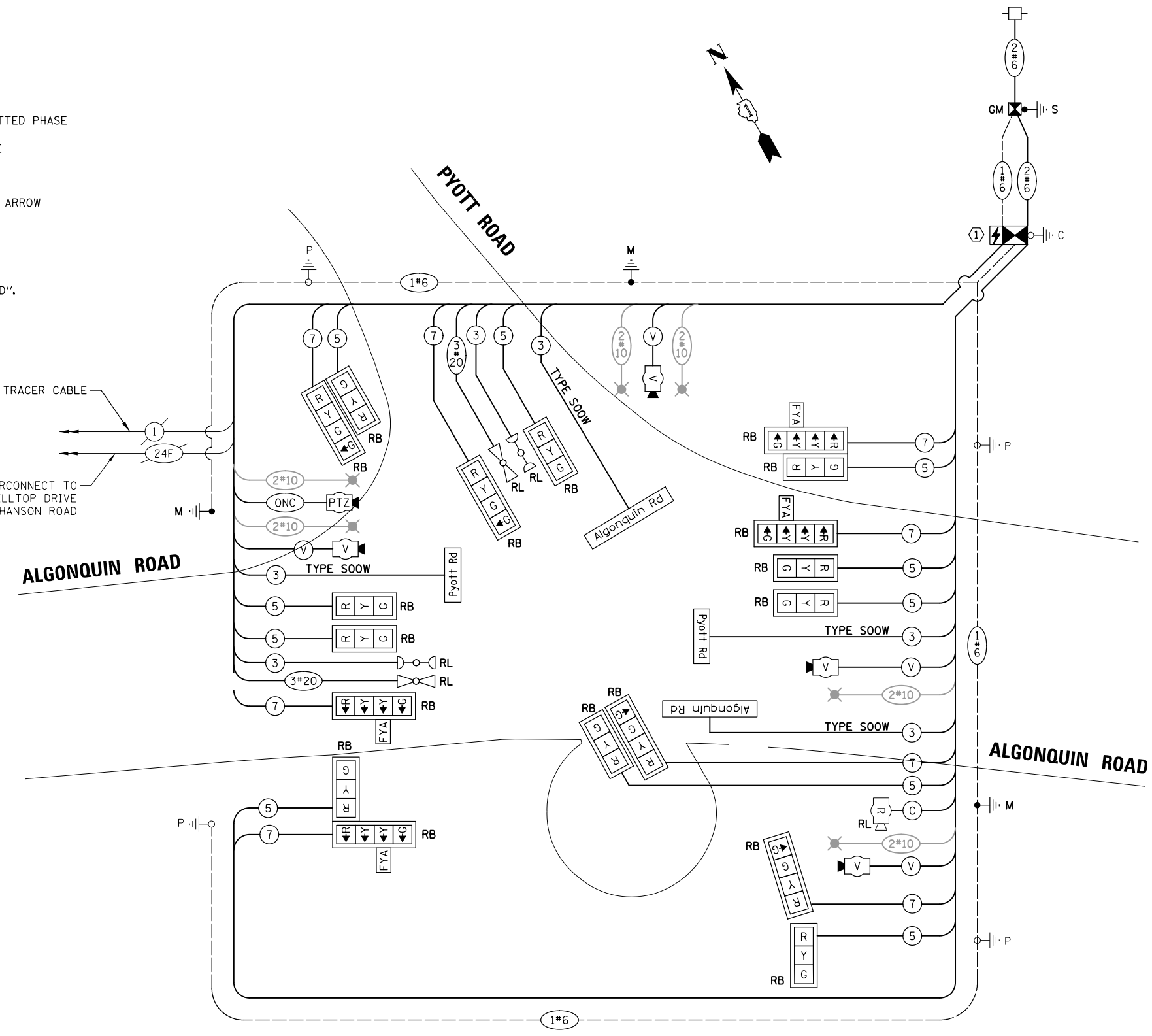
FILE NAME = TS7_Pyott-08_CAB	USER NAME = pandrows	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ALGONQUIN ROAD AT PYOTT ROAD

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

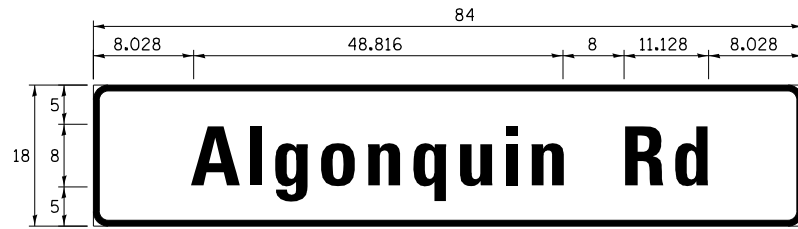
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	76
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H50	



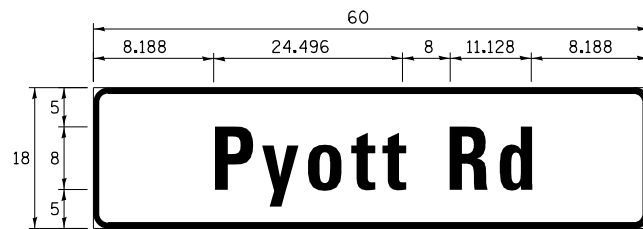
CABLE PLAN
 (NOT TO SCALE)

LED ILLUMINATED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	10.5	ZZ	2



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

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL DA	28
SIGN PANEL - TYPE 1	SQ FT	30
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	58
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	346.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2596.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2058
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	83.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	667.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 22 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	5
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	18
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5134.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	252
**ROD AND CLEAN EXISTING CONDUIT	FOOT	500
RELOCATE RADAR DETECTOR SYSTEM	EACH	1
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	321.5
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	976.5
INTERCEPT EXISTING CONDUIT	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	321.5
LOCATING UNDERGROUND UTILITY	EACH	2
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
ETHERNET SWITCH, TYPE 2	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	77.1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

**Nominal Quantity to be used as Directed by the Engineer

DATE	BY	DATE	BY
SURVEYED	ALIGNED	CHECKED	FILE NAME
GRADES	NOTED	STRUCTURE	NOTATIONS
NO.	NO.	NO.	NO.

TS SHT NO.52

FILE NAME = TS7_Pyott-09.STN	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES AND MAST ARM MOUNTED STREET NAME SIGN ALGONQUIN ROAD AT PYOTT ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -		SCALE: NOT TO SCALE	SHEET NO.	OF	SHEETS	STA.	TO STA.	18-00480-00-TL	132	77
		CHECKED - GMZ	REVISED -							MCHENRY			CONTRACT NO. 61H50
		PLOT DATE = 1/12/2022	DATE -		REVISED -						ILLINOIS FED. AID PROJECT		

REMOVAL AND RELOCATION 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 THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION (POLE MOUNTED)
- 8 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH LUMINAIRE
- 4 EACH D3-1 STREET NAME SIGN

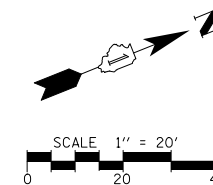
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH RADAR VEHICLE DETECTOR

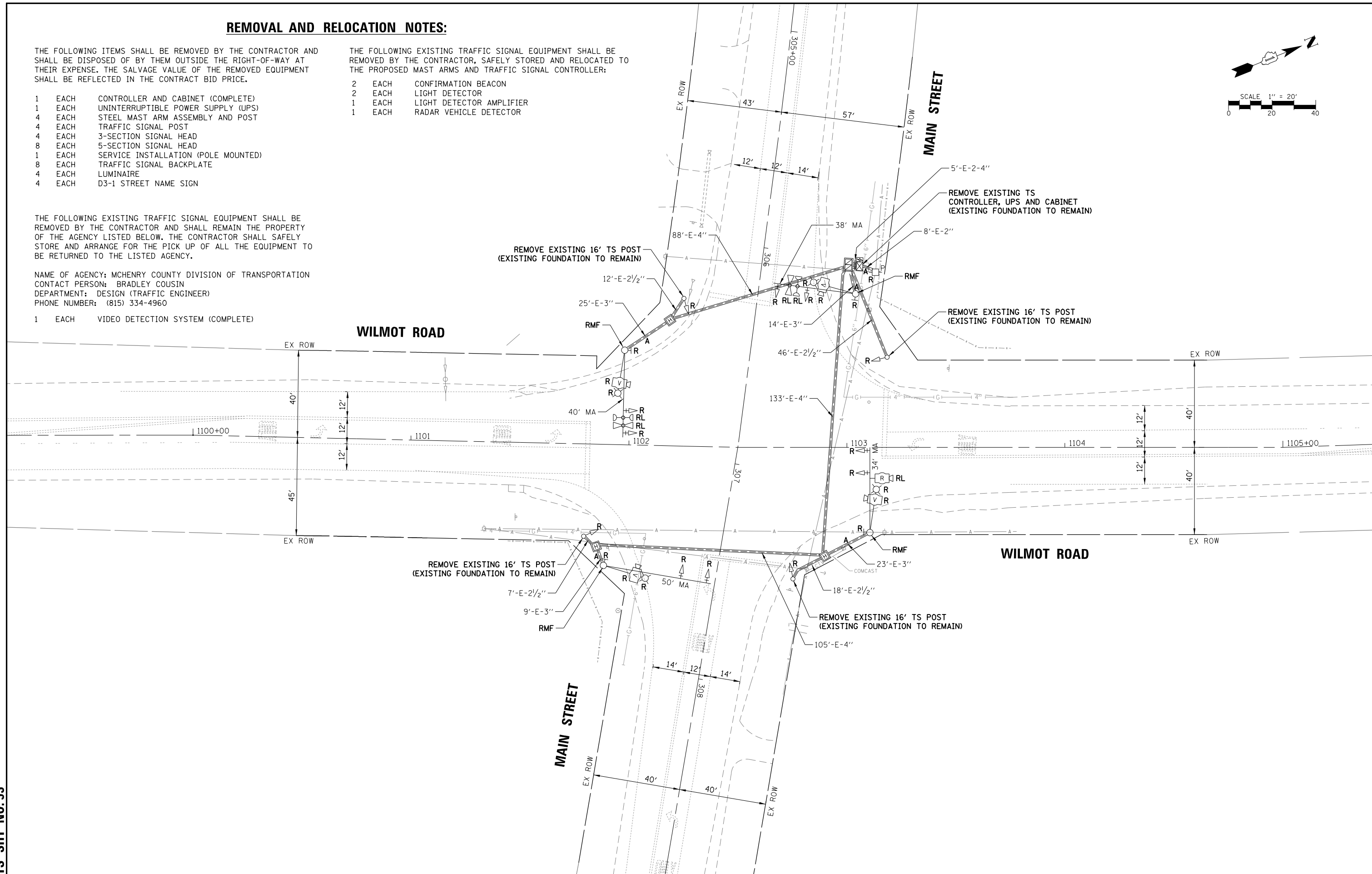
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: MCHENRY COUNTY DIVISION OF TRANSPORTATION
 CONTACT PERSON: BRADLEY COUSIN
 DEPARTMENT: DESIGN (TRAFFIC ENGINEER)
 PHONE NUMBER: (815) 334-4960

- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)



DATE	BY	SURVEYED	ALIGNED	CHECKED
DATE	BY	GRADES	CHECKED	
DATE	BY	STRUCTURE	NOTATIONS	OK'D

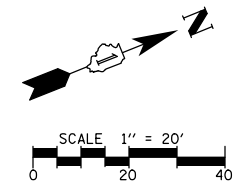


TS SHT NO. 53

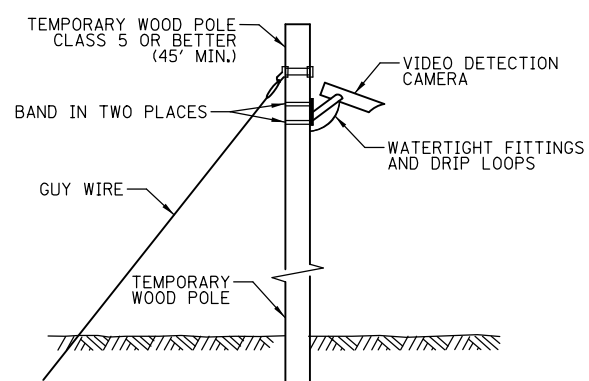
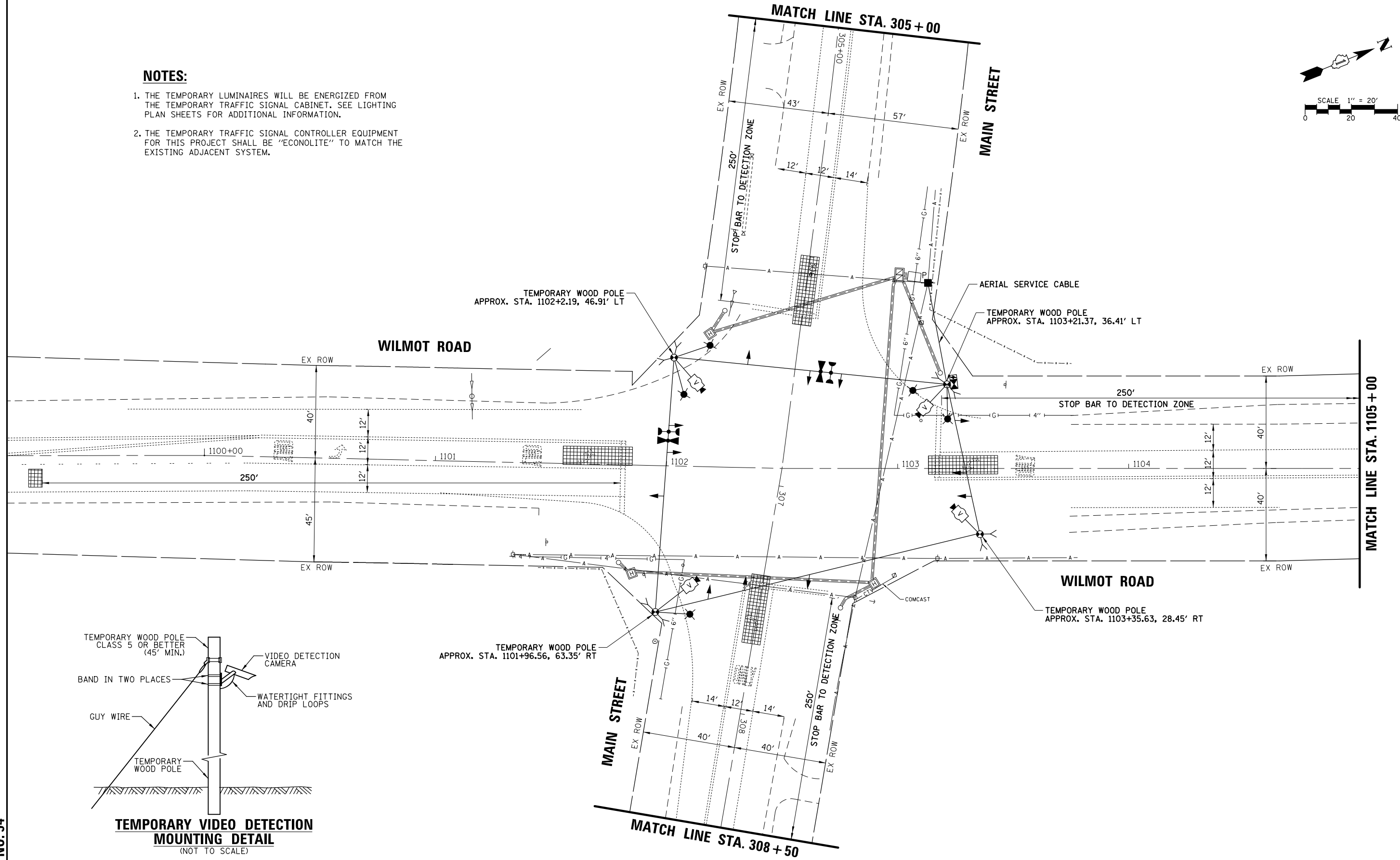
FILE NAME = TSB_Wilmott-01.REM	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN MAIN STREET AT WILMOT ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 48"	CHECKED - GMZ	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF	SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	78
	PLOT DATE = 1/12/2022	DATE -	REVISED -									CONTRACT NO. 61H50		
											FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

NOTES:

1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
2. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

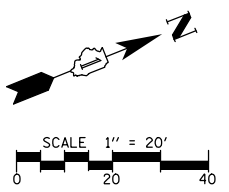


DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	ADD. FILE NAME
DATE	BY	PLAN	NOTE BOOK	NO.	NO.	NO.	NO.
DATE	BY	PROFILE	GRADES CHECKED	BLM. NOTED	STRUCTURE	NOTATIONS	CHKD



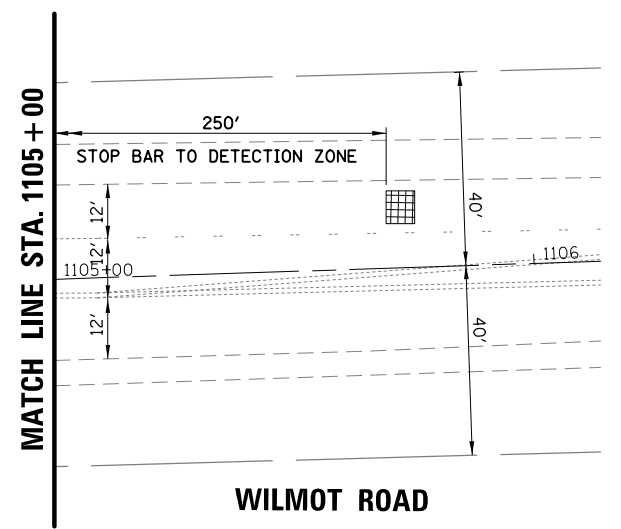
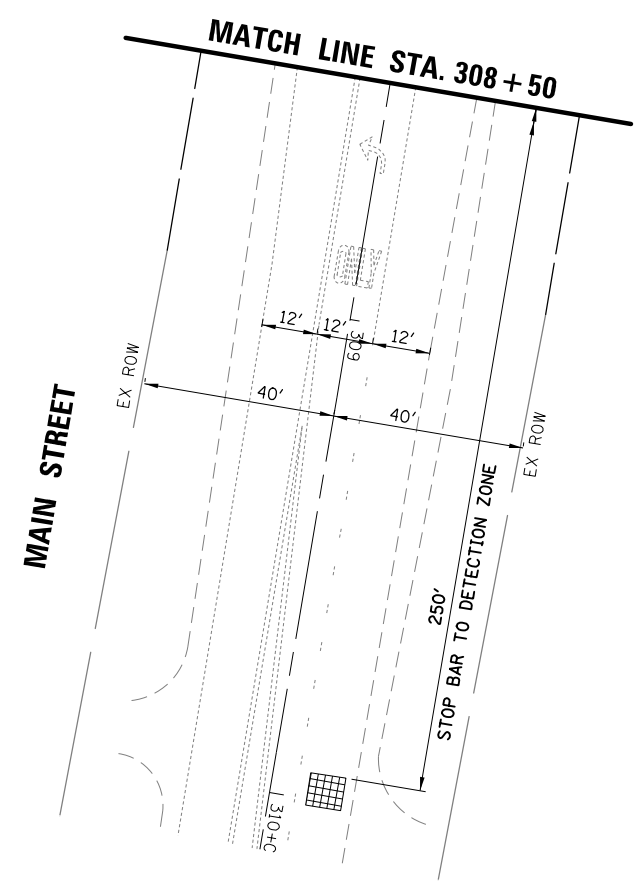
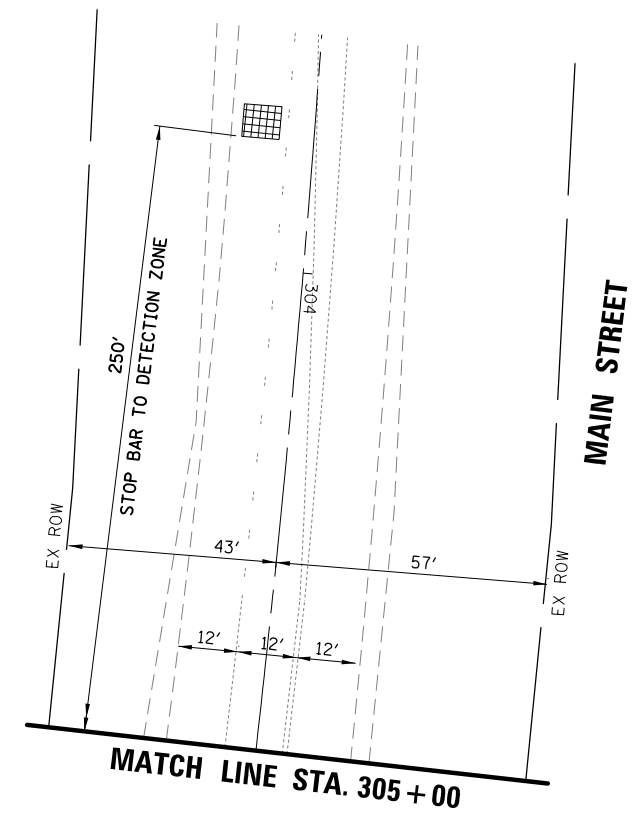
TS SHT NO.54

FILE NAME =	USER NAME = pandrews	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN MAIN STREET AT WILMOT ROAD (SHEET 1 OF 2)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TSB.Wilmott-02.TMP1		DRAWN - FPB	REVISED -					18-00480-00-TL	MCHENRY	132	79	
PLOT SCALE = 48"		CHECKED - GMZ	REVISED -					CONTRACT NO. 61H50				
PLOT DATE = 1/12/2022		DATE -	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



PROFILE	SURVEYED	PLAN	BY	DATE
NOTE BOOK NO.	GRADES CHECKED	NOTE BOOK NO.		
	BLM. NOTED			
	STRUCTURE NOTATIONS OK/NO			

TS SHT NO.55



FILE NAME =	USER NAME = pandrews	DESIGNED - TFS	REVISED -
TSB_Wilmott-03.TMP2		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

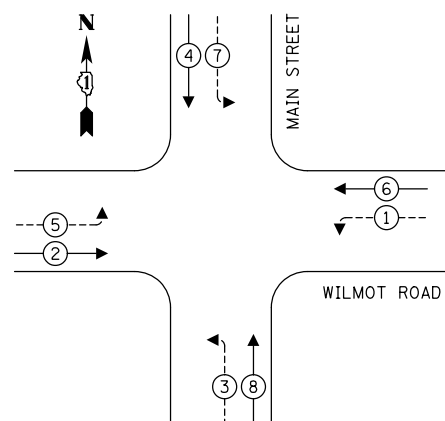
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
MAIN STREET AT WILMOT ROAD
(SHEET 2 OF 2)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	80
		CONTRACT NO. 61H50		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

DATE _____ BY _____
 SURVEYED _____ ALIGNED _____ CHECKED _____
 RT. OF WAY CHECKED _____
 PLAN NOTE BOOK NO. _____
 DATE _____ BY _____
 SURVEYED _____ GRADES CHECKED _____
 BLK. NOTED _____ STRUCTURE NOTATIONS OK/NO

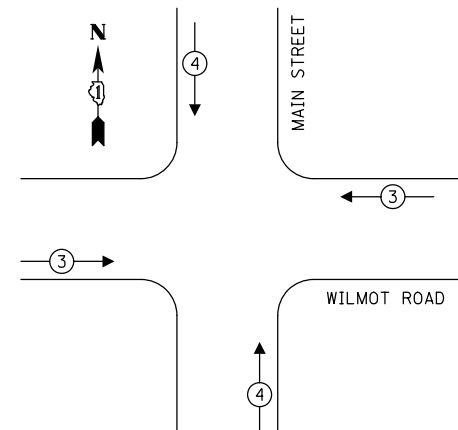
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

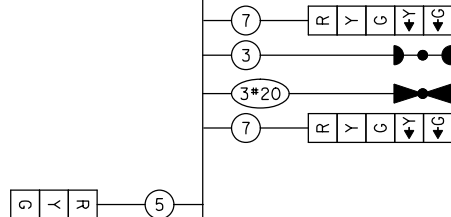
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	5	250	50	625.0
TOTAL =				1028.8

ENERGY COSTS TO:
 VILLAGE OF SPRING GROVE
 PUBLIC WORKS DEPARTMENT
 7401 Meyer Road, Spring Grove, Illinois 60081
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: NEW PHONE
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

NOTES:

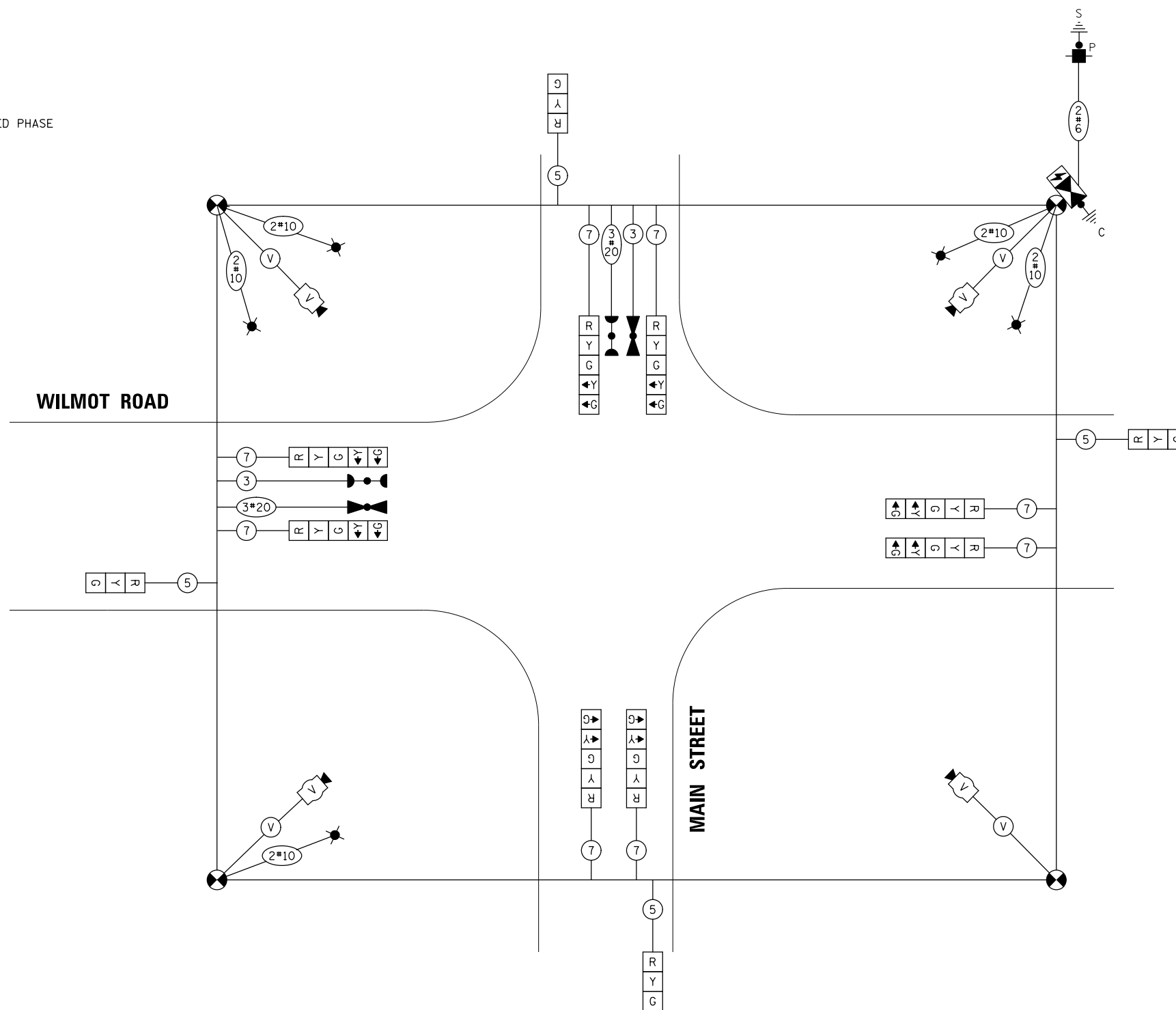
1. THE TEMPORARY LUMINAIRES WILL BE ENERGIZED FROM THE TEMPORARY TRAFFIC SIGNAL CABINET. SEE LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
2. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

WILMOT ROAD



TEMPORARY CABLE PLAN

(NOT TO SCALE)



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
 AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 MAIN STREET AT WILMOT ROAD

FILE NAME =
 TSB_Wilmott-04_TCB

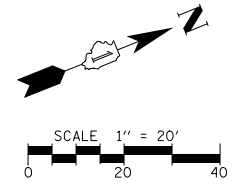
USER NAME = pandrews
 DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE -
 PLOT SCALE = 48"
 PLOT DATE = 1/12/2022

REVISED -
 REVISED -
 REVISED -
 REVISED -

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	81
CONTRACT NO. 61H50				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

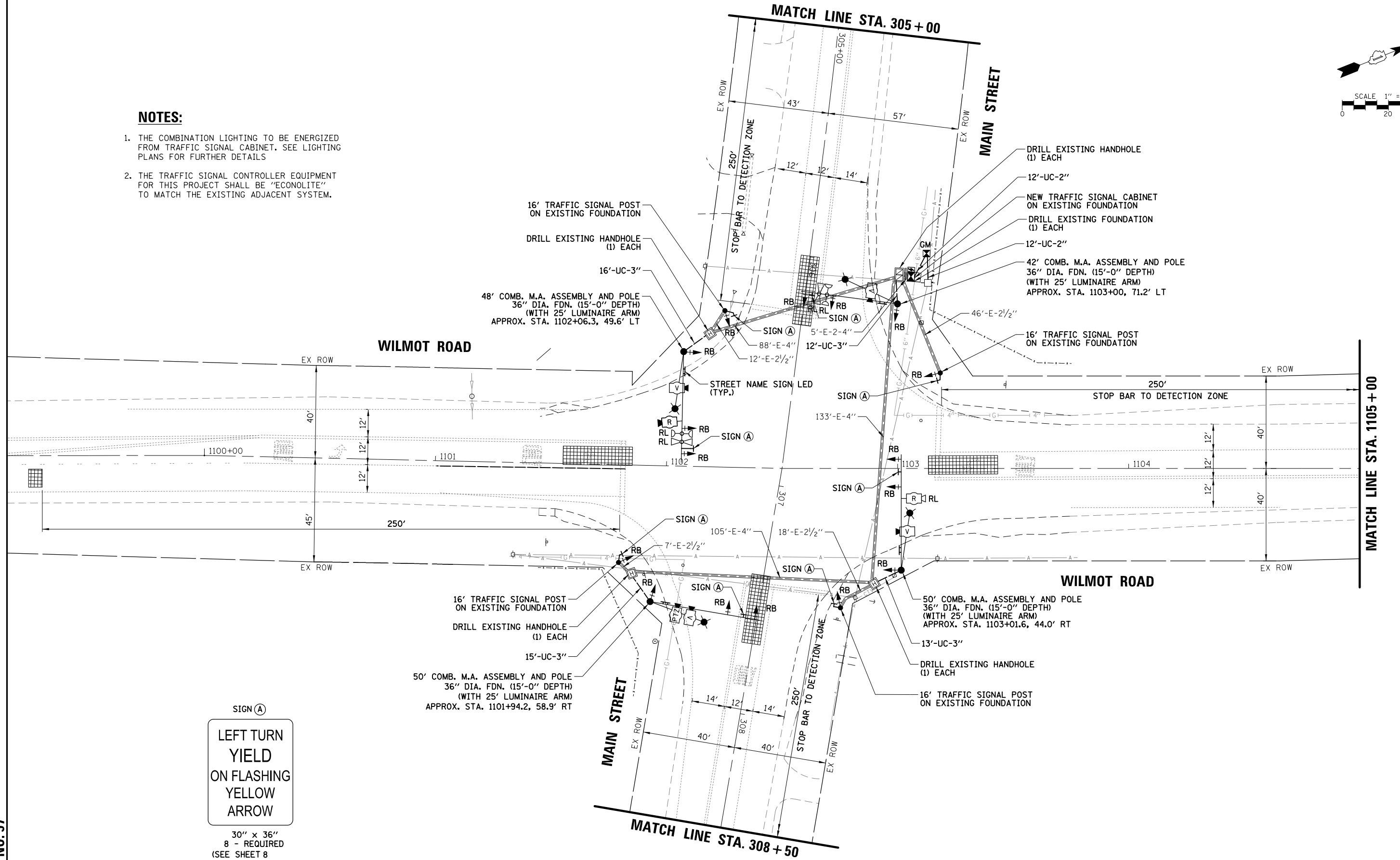
TS SHT NO. 56



NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM TRAFFIC SIGNAL CABINET. SEE LIGHTING PLANS FOR FURTHER DETAILS
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	ADD. FILE NAME
DATE	BY	PLANNED	NOTE BOOK	NO.			
DATE	BY	PROFILE	NOTE BOOK	NO.			



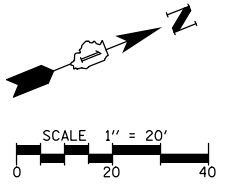
SIGN (A)

**LEFT TURN
YIELD
ON FLASHING
YELLOW
ARROW**

30" x 36"
8 - REQUIRED
(SEE SHEET 8
FOR DETAILS)

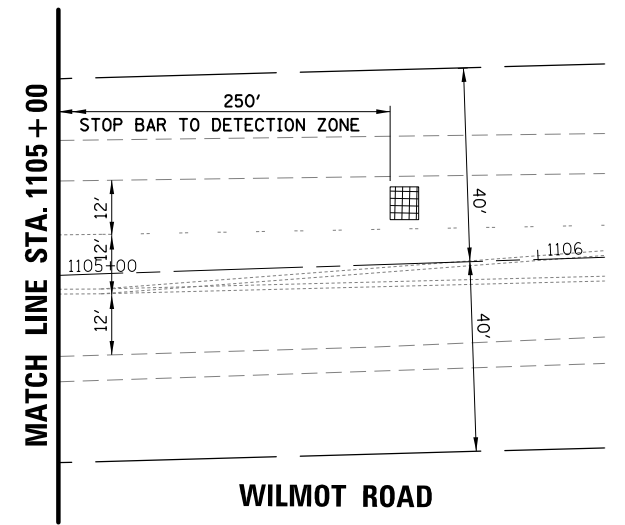
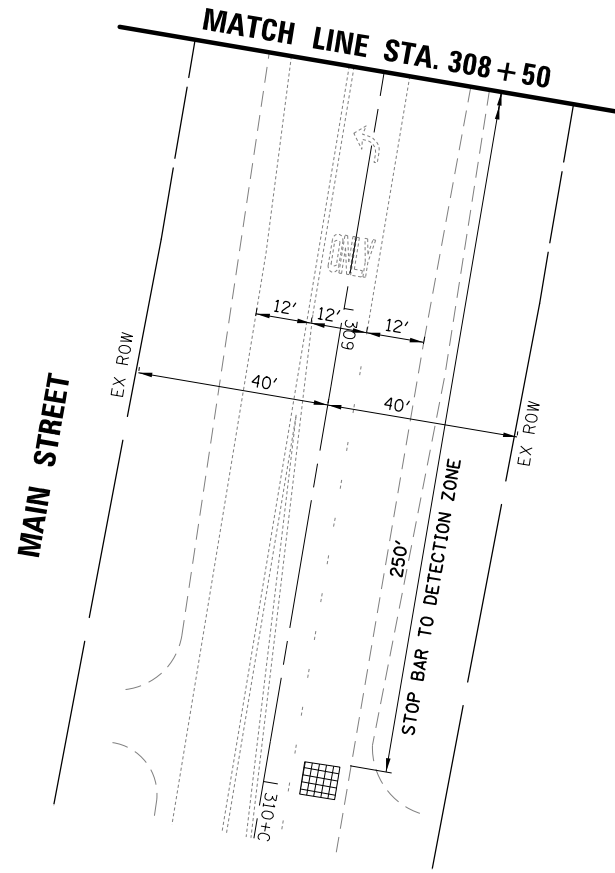
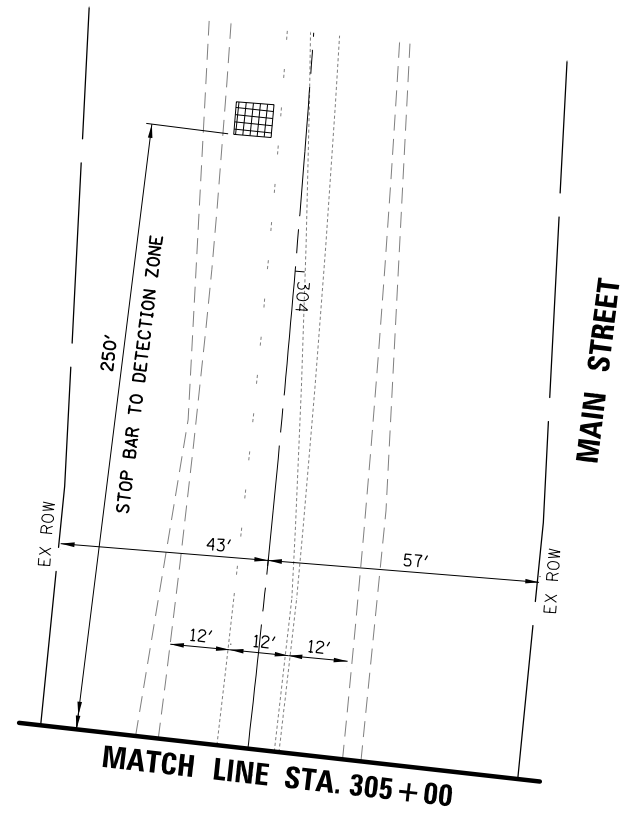
TS SHT NO. 57

FILE NAME = TSB.Wilmot-05.MOD1	USER NAME = pandrews	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN MAIN STREET AT WILMOT ROAD (SHEET 1 OF 2)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	82
		CHECKED - GMZ	REVISED -		CONTRACT NO. 61H50								
		DATE -	REVISED -		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT						



PROFILE	SURVEYED	PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED	NOTE BOOK NO.	ALIGNMENT CHECKED		
	BLM. NOTED		RT. OF WAY CHECKED		
	STRUCTURE NOTATIONS OK/NO		ADD. FILE NAME		

TS SHT NO.58



FILE NAME =	USER NAME = pandrews
T58_Wilmott-06.MOD2	

DESIGNED - TFS	REVISOR -
DRAWN - FPB	REVISOR -
CHECKED - GMZ	REVISOR -
DATE -	REVISOR -

DESIGNED - TFS	REVISOR -
DRAWN - FPB	REVISOR -
CHECKED - GMZ	REVISOR -
DATE -	REVISOR -

DESIGNED - TFS	REVISOR -
DRAWN - FPB	REVISOR -
CHECKED - GMZ	REVISOR -
DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
MAIN STREET AT WILMOT ROAD
(SHEET 2 OF 2)**

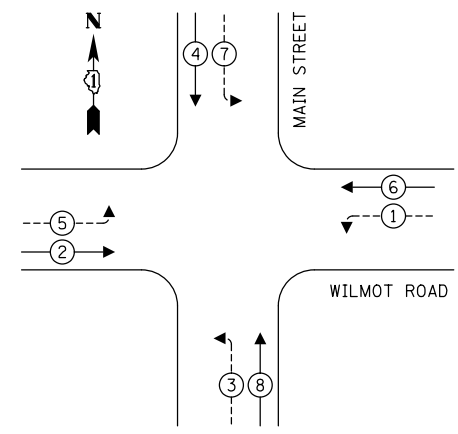
SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	83
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H50	

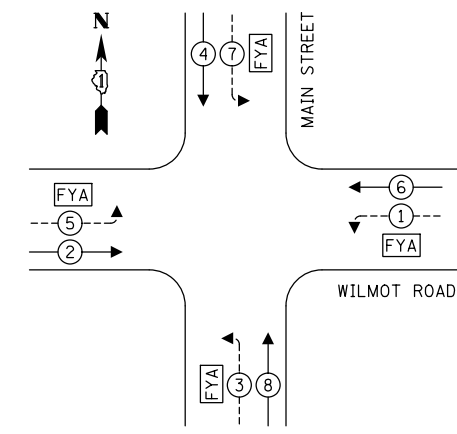
DATE: _____ BY: _____
 SURVEYED _____ ALIGNED _____ CHECKED _____
 PLAN NOTE BOOK NO. _____ RT. OF WAY CHECKED _____
 PROFILE SURVEYED _____ GRADES CHECKED _____
 NOTE BOOK NO. _____ STRUCTURE NOTATIONS OK/NO

TS SHT NO. 59

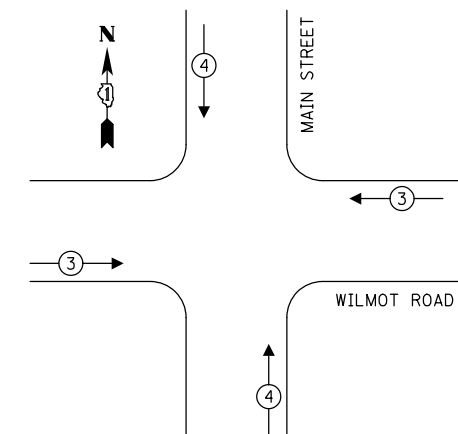
EXISTING CONTROLLER SEQUENCE



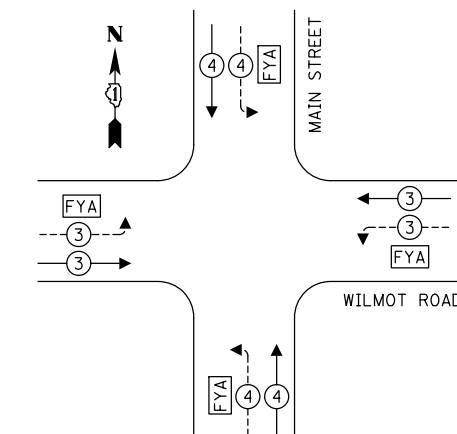
PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ⊙* — PROTECTED PHASE
- ⊙* — PROTECTED/PERMITTED PHASE
- ⊙* — PEDESTRIAN PHASE
- ⊙OL — OVERLAP
- FYA — FLASHING YELLOW ARROW

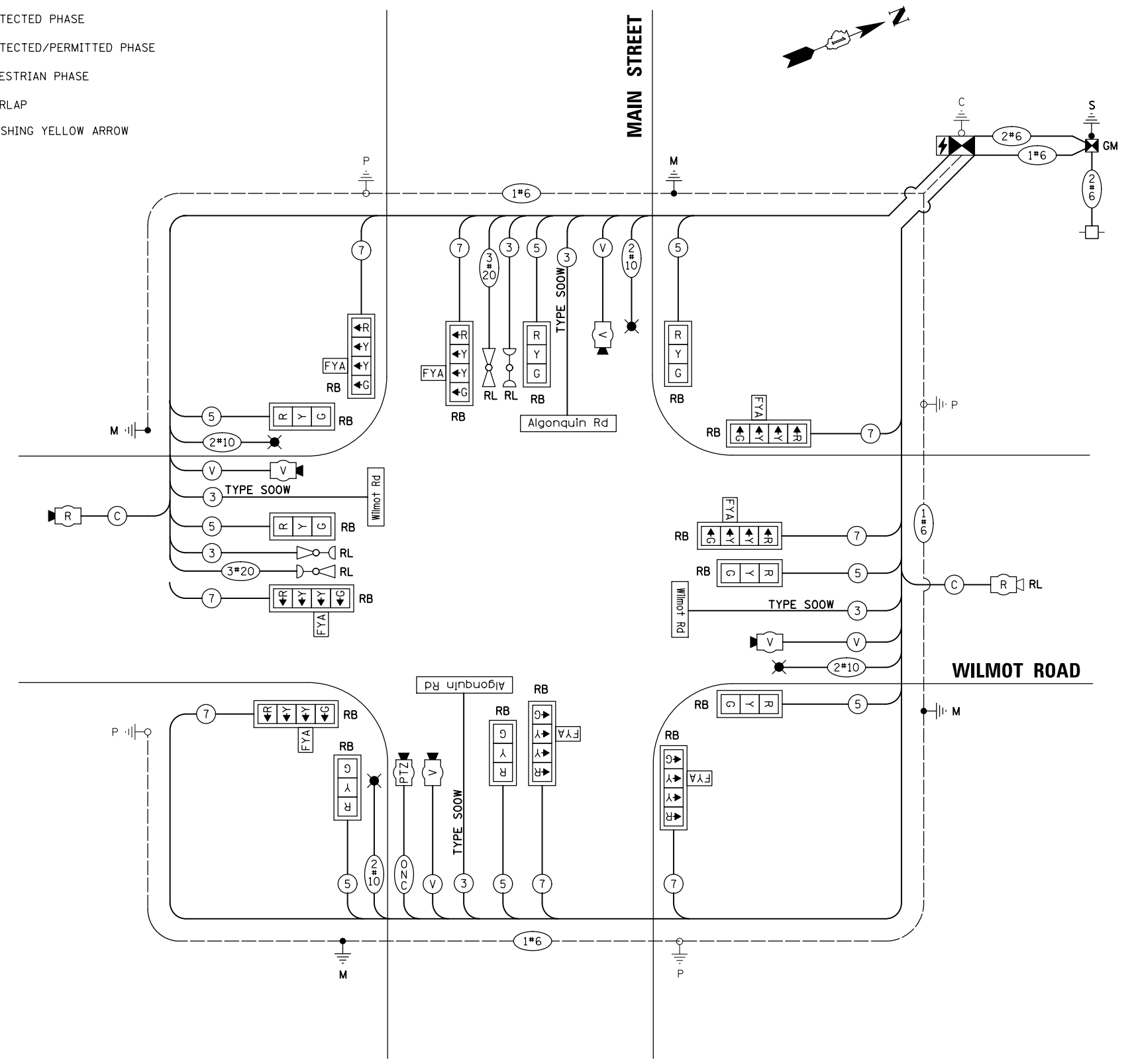
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44.0
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
SOLID ARROW (RED)	8	10	50	40.0
(GREEN & YELLOW)	16	10	10	16.0
FLASHING ARROW	8	10	5	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	190	50	380.0
TOTAL =				810.2

ENERGY COSTS TO:
 VILLAGE OF SPRING GROVE
 PUBLIC WORKS DEPARTMENT
 7401 Meyer Road, Spring Grove, Illinois 60081
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: _____
 ACCOUNT NUMBER: ---

NOTES:

1. THE COMBINATION LIGHTING TO BE ENERGIZED FROM TRAFFIC SIGNAL CABINET. SEE LIGHTING PLANS FOR FURTHER DETAILS
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



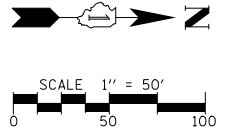
CABLE PLAN
(NOT TO SCALE)

FILE NAME = TSB_Wilmott-07_CAB	USER NAME = pandrows	DESIGNED - TFS	REVISED -
		DRAWN - FPB	REVISED -
		CHECKED - GMZ	REVISED -
		DATE - 1/12/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

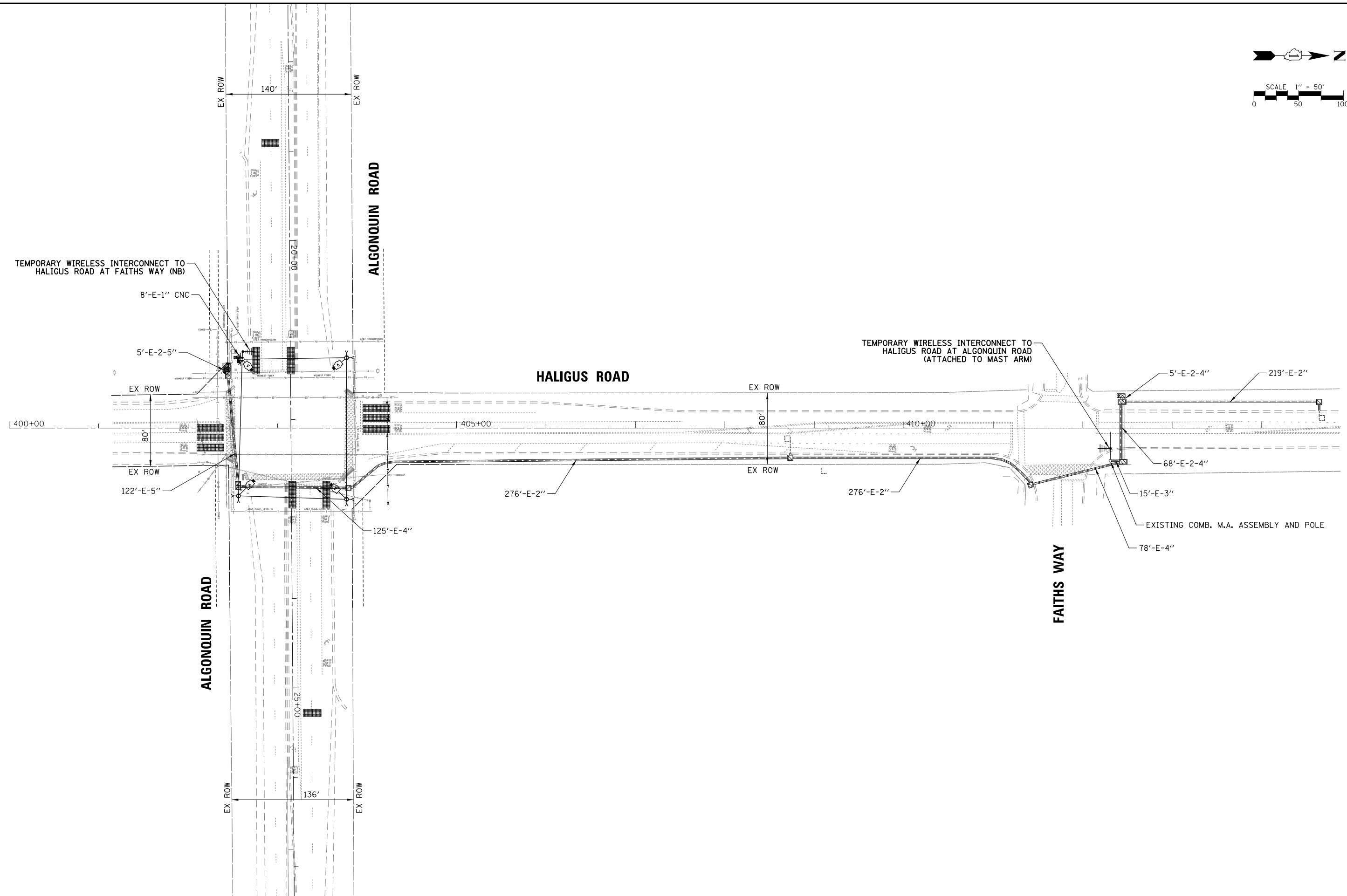
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE MAIN STREET AT WILMOT ROAD			
SCALE: NOT TO SCALE	SHEET NO. _____	OF _____ SHEETS	STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	84
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H50	



PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
PLAN	SURVEYED	BY	DATE
	ALIGNMENT CHECKED		
NOTE BOOK NO.		RT. OF WAY CHECKED	
NO.		ADD. FILE NAME	

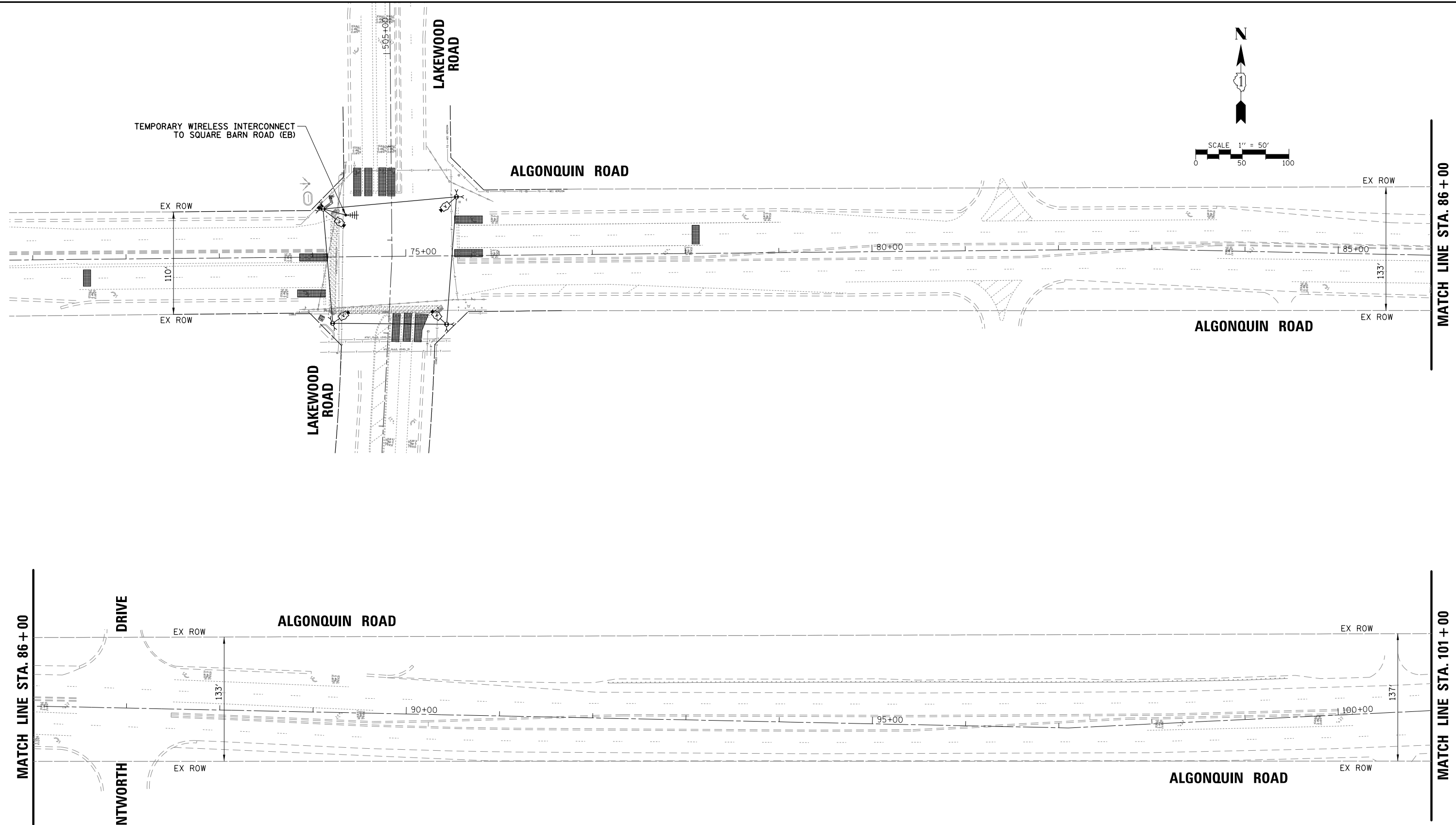
TS SHT NO. 61



FILE NAME = TS-INT_Tmpl_Haligus-Faiths	USER NAME = pandrows	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT PLAN HALIGUS ROAD FROM ALGONQUIN ROAD TO FAITHS WAY			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -		SCALE: 1" = 100'	SHEET NO.	OF	SHEETS	STA.	TO	STA.	132	86
		CHECKED - GMZ	REVISED -								CONTRACT NO. 61H50		
		DATE -	REVISED -								ILLINOIS FED. AID PROJECT		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	BLM. NOTED		
	STRUCTURE NOTATIONS OK'D		
PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	ALIGNMENT CHECKED		
	R.T. OF WAY CHECKED		
	ADD. FILE NAME		

TS SHT NO. 62



FILE NAME = TS-INT_Tmp2.Lakewood-Frank

USER NAME = pandrews
 PLOT SCALE = 1/80'
 PLOT DATE = 1/12/2022

DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

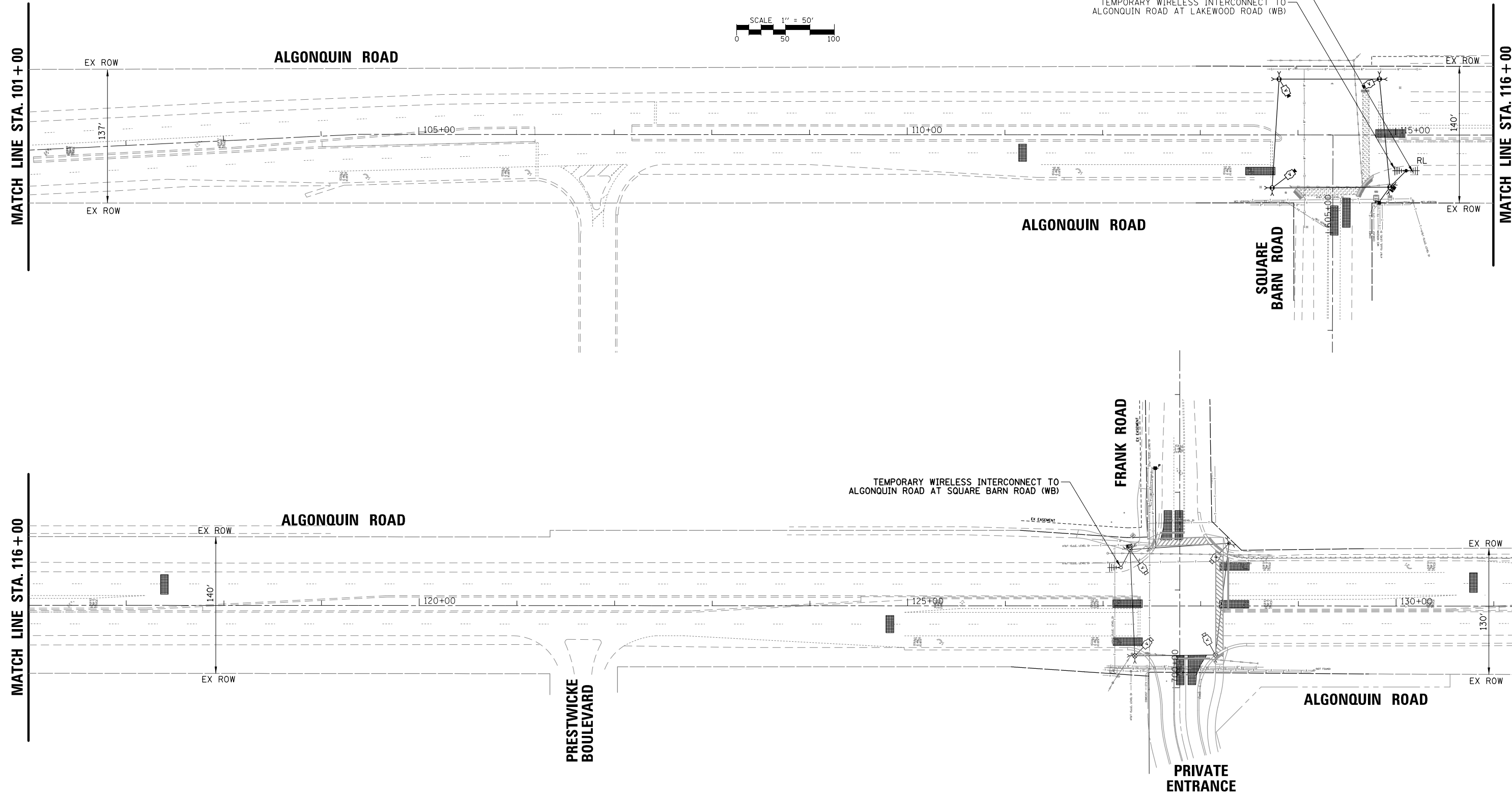
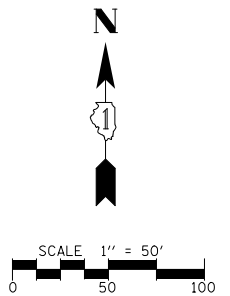
TEMPORARY INTERCONNECT PLAN
 ALGONQUIN ROAD FROM LAKEWOOD ROAD TO FRANK ROAD
 (SHEET 1 OF 2)

SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	87
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61H50	

DATE	BY	DATE	BY
PROF. FILE	SURVEYED	PLAN	SURVEYED
NO.	GRADES CHECKED	NOTE BOOK	ALIGNMENT CHECKED
	BLM. NOTED	NO.	RT. OF WAY CHECKED
	STRUCTURE NOTATIONS OK'D		ADD. FILE NAME

TS SHT NO. 63



FILE NAME =	USER NAME = pandrews	DESIGNED - TFS	REVISED -
TS-INT_Tmp3.Lakewood-Frank		DRAWN - FPB	REVISED -
	PLOT SCALE = 100'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/12/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

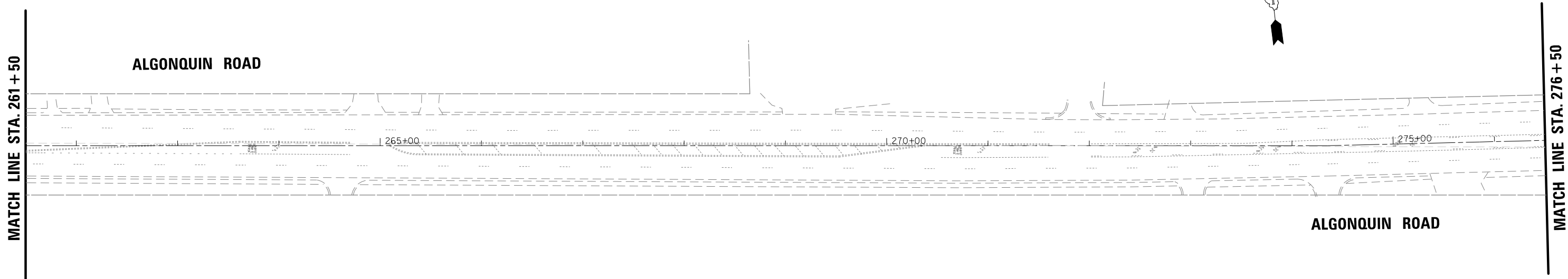
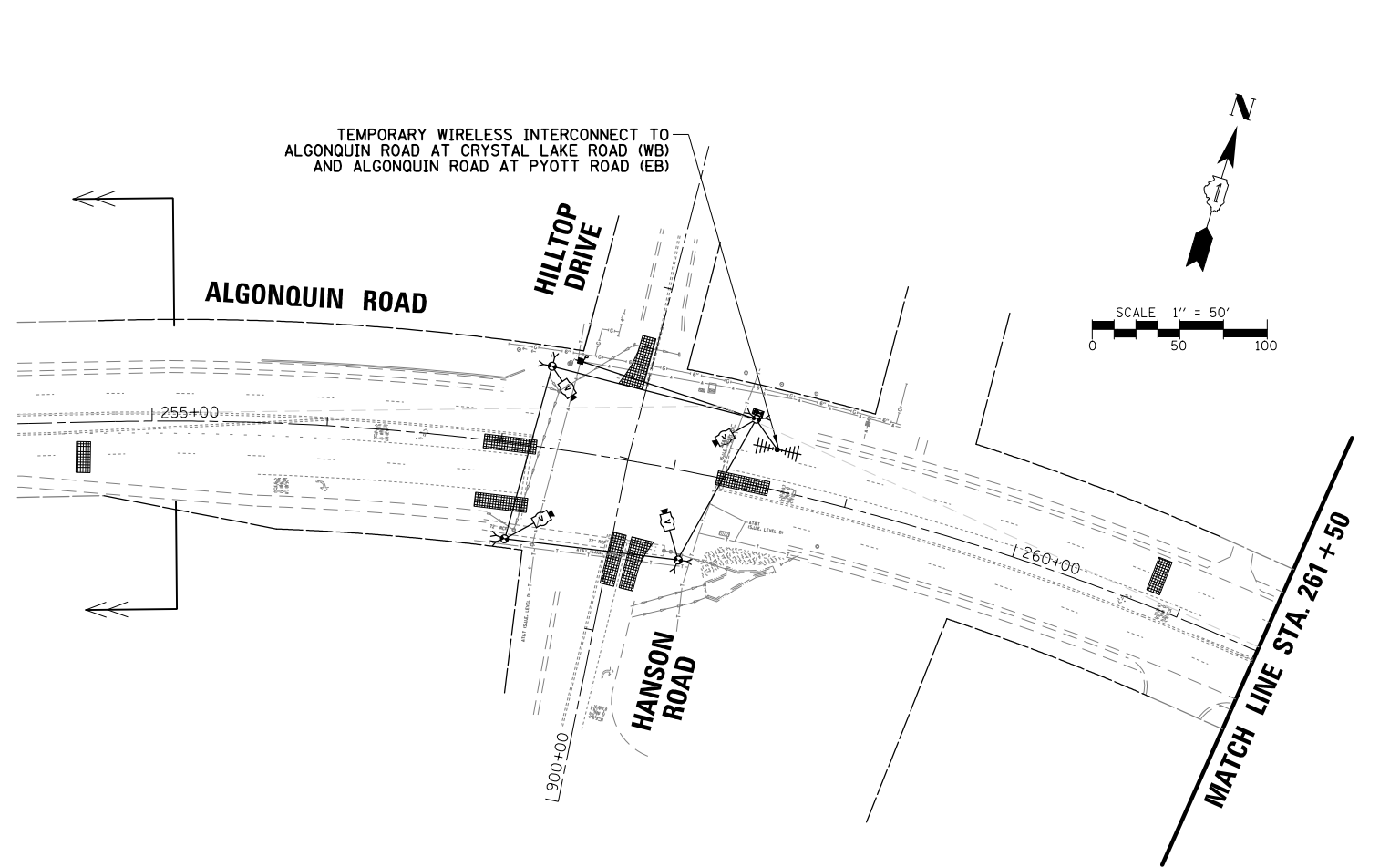
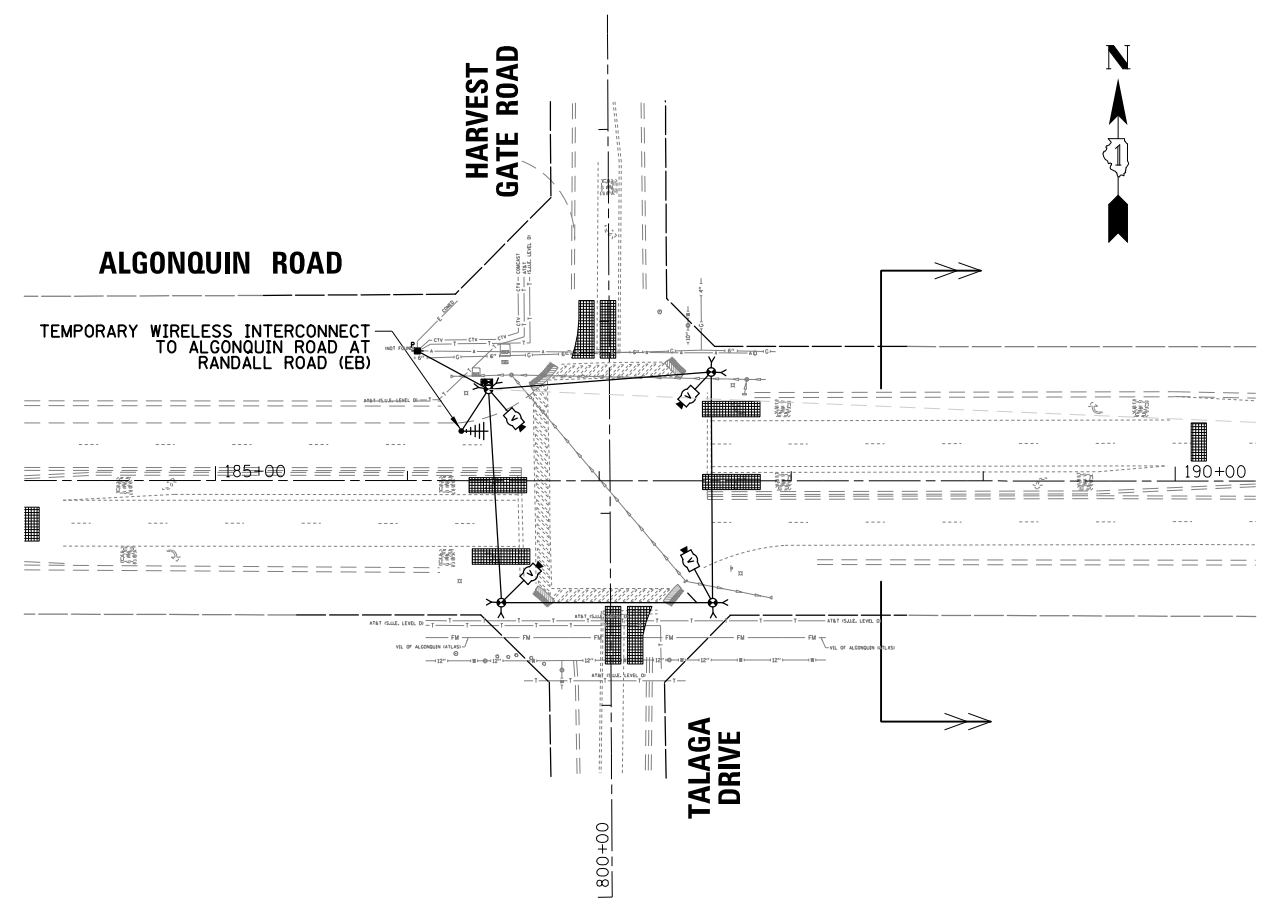
TEMPORARY INTERCONNECT PLAN
ALGONQUIN ROAD FROM LAKEWOOD ROAD TO FRANK ROAD
(SHEET 2 OF 2)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	88
		CONTRACT NO. 61H50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	BLM. NOTED		
	STRUCTURE NOTATIONS OK'D		
PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	ADD. FILE NAME		

TS SHT NO. 64



FILE NAME =	USER NAME = pandrows	DESIGNED - TFS	REVISED -
TS-INT_Tmp4_Harvest-Pyott		DRAWN - FPB	REVISED -
	PLOT SCALE = 100'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/12/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

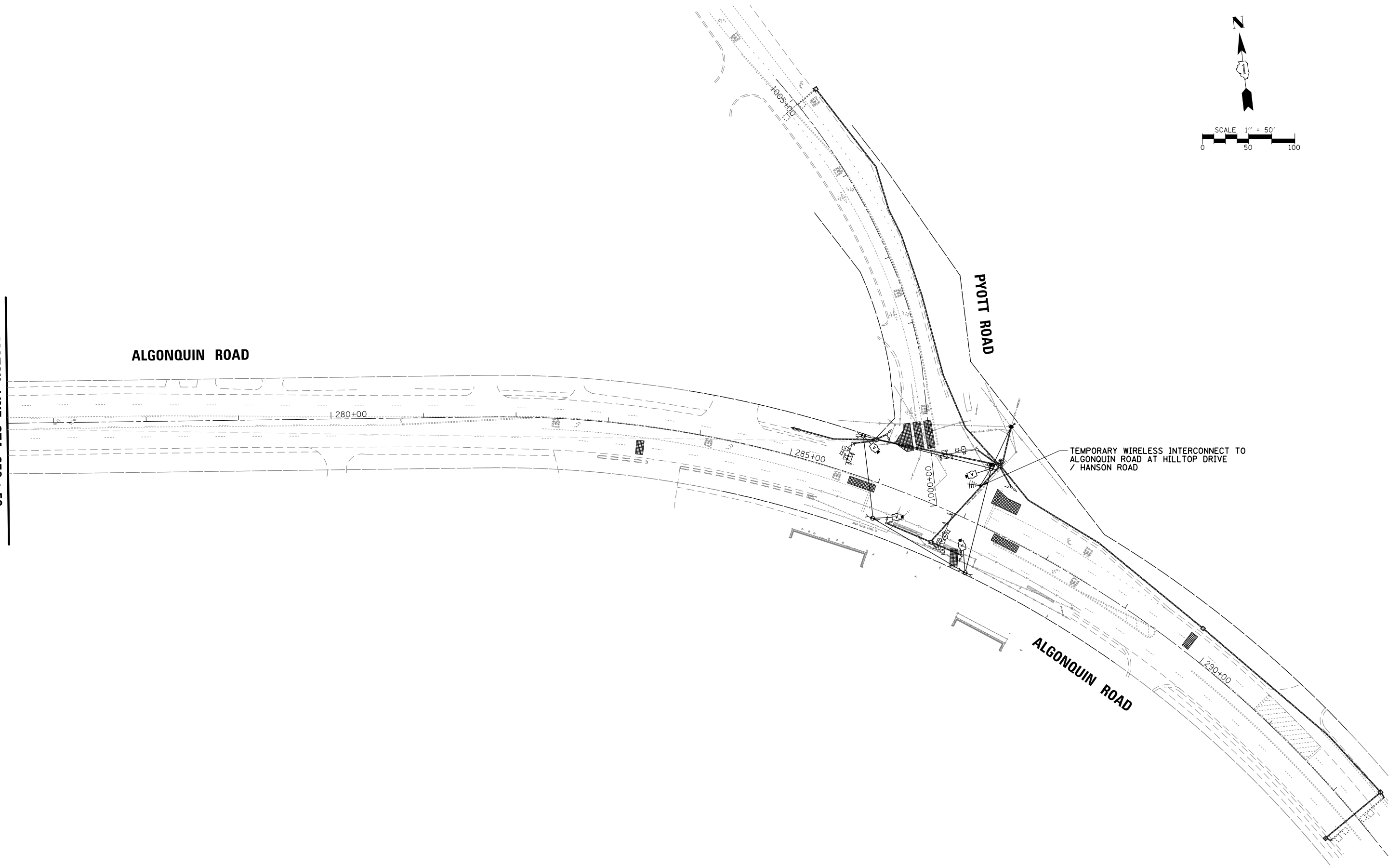
TEMPORARY INTERCONNECT PLAN			
ALGONQUIN ROAD FROM HARVEST GATE ROAD / TALAGA DRIVE TO PYOTT ROAD (SHEET 1 OF 2)			
SCALE: 1" = 100'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	89
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
	BLM. NOTED		
	STRUCTURE NOTATIONS OK'D		
PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	ADD. FILE NAME		

TS SHT NO. 65

MATCH LINE STA. 276 + 50



FILE NAME = TS-INT_Tmp5_Harvest-Pyott

USER NAME = pandrews	DESIGNED - TFS	REVISED -
PLOT SCALE = 1/80'	DRAWN - FPB	REVISED -
PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
ALGONQUIN ROAD FROM HARVEST GATE ROAD /
TALAGA DRIVE TO PYOTT ROAD (SHEET 2 OF 2)

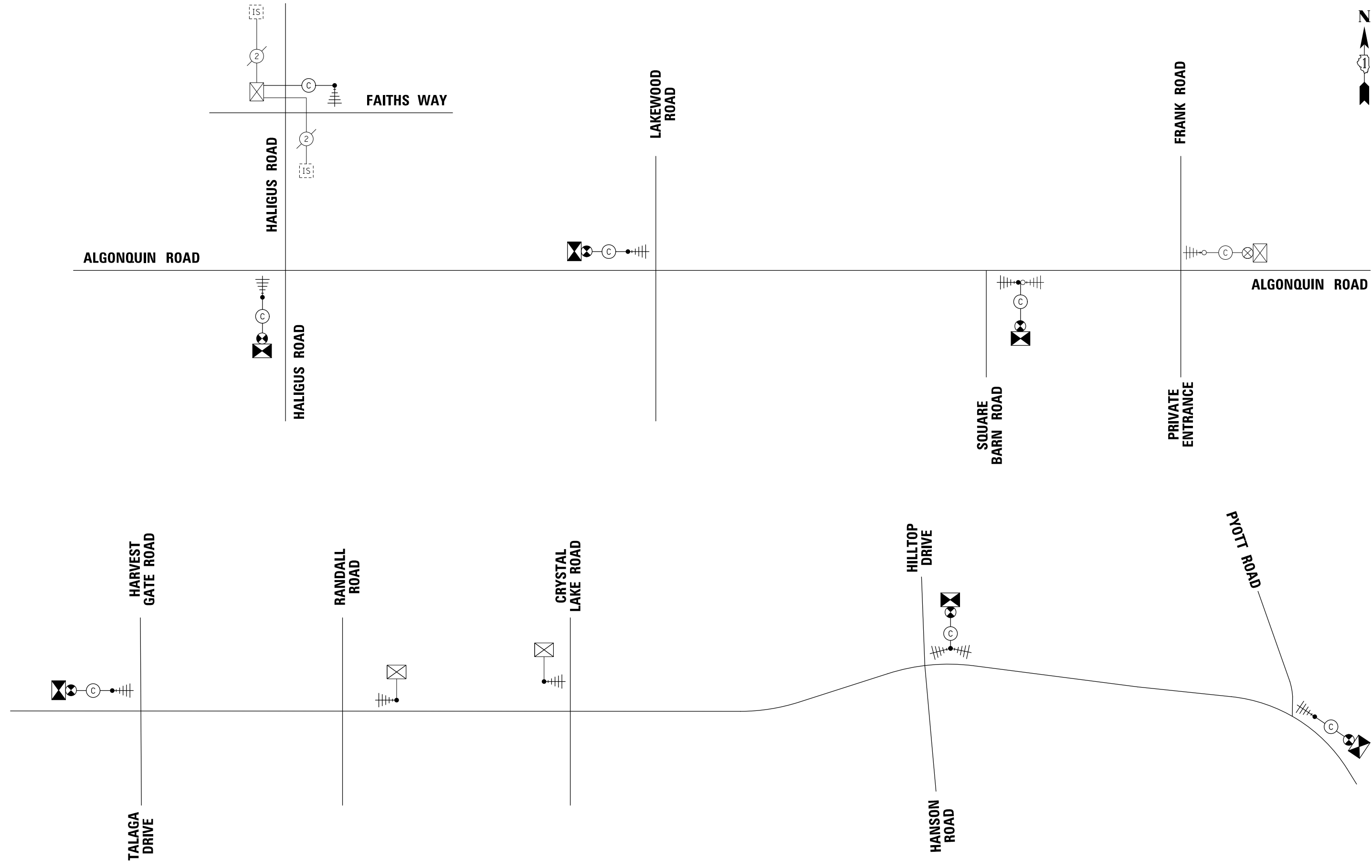
SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	90
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 61H50

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	BLM. NOTED	DATE
	STRUCTURE NOTATIONS OK'D	
PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	BY
NO.	R.T. OF WAY CHECKED	DATE
	ADD. FILE NAME	

TS SHT NO.66



FILE NAME = TS-INT_Tmp Schematic

USER NAME = pandrews
 PLOT SCALE = 100'
 PLOT DATE = 1/12/2022

DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

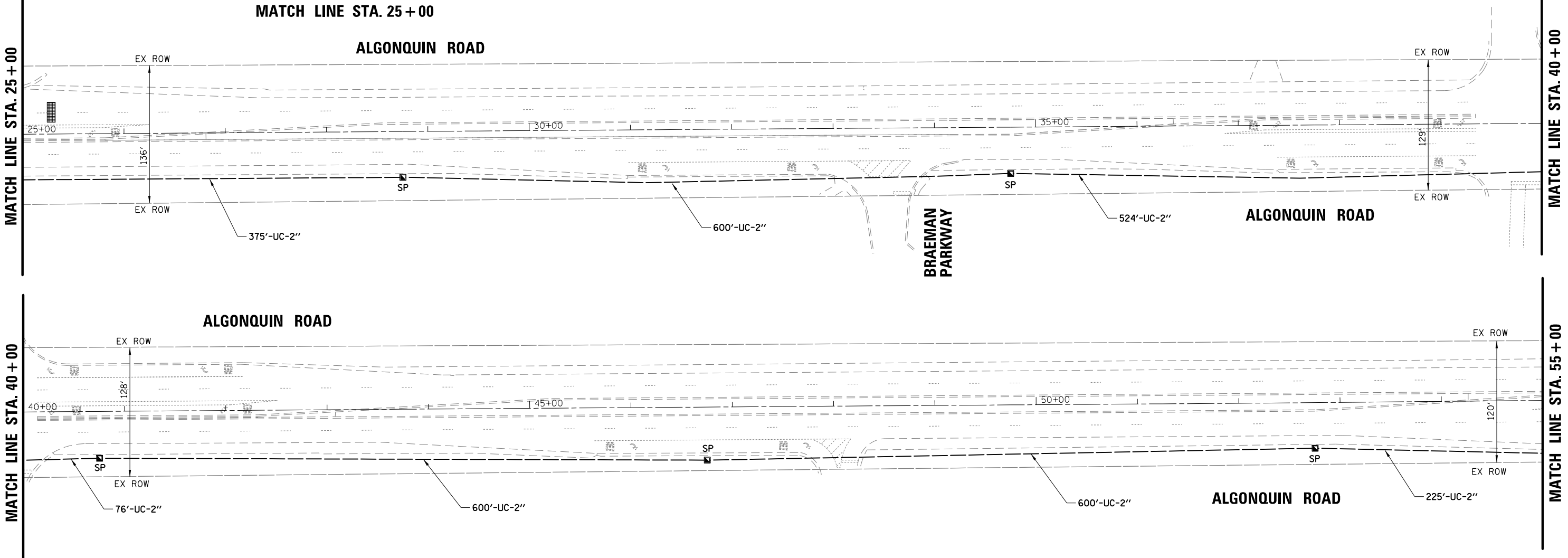
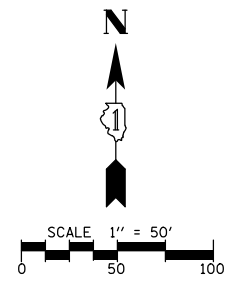
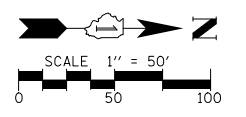
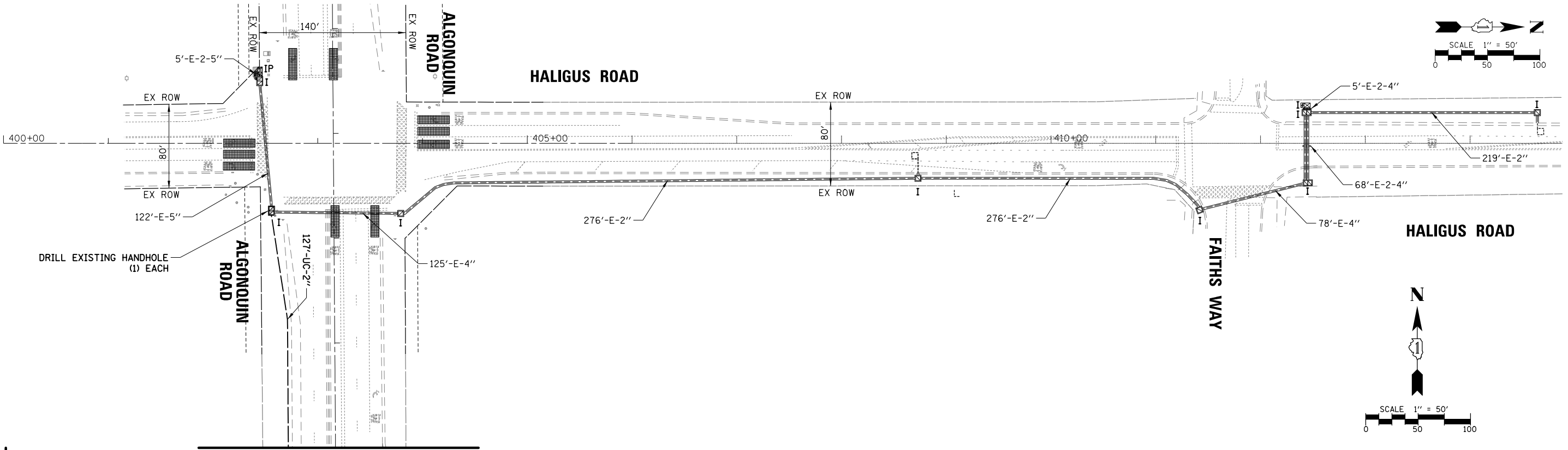
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC DIAGRAM

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	91
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61H50	

DATE	BY	DATE
	BY	
PLAN	SURVEYED	DATE
	NOTE BOOK	
PROFILE	ALIGNED	DATE
	GRADES CHECKED	
TS SHT NO. 67	RT. OF WAY CHECKED	DATE
	ADD. FILE NAME	
NO.	STRUCTURE NOTATIONS OK/NO	DATE



TS SHT NO. 67

FILE NAME = TS-INT_01-Haligus-Harvest

USER NAME = pandrews	DESIGNED - TFS	REVISED -
PLOT SCALE = 100'	DRAWN - FPB	REVISED -
PLOT DATE = 1/12/2022	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - (SHEET 1 OF 4)
ALGONQUIN ROAD FROM HALIGUS ROAD TO HARVEST GATE ROAD / TALAGE DRIVE

SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

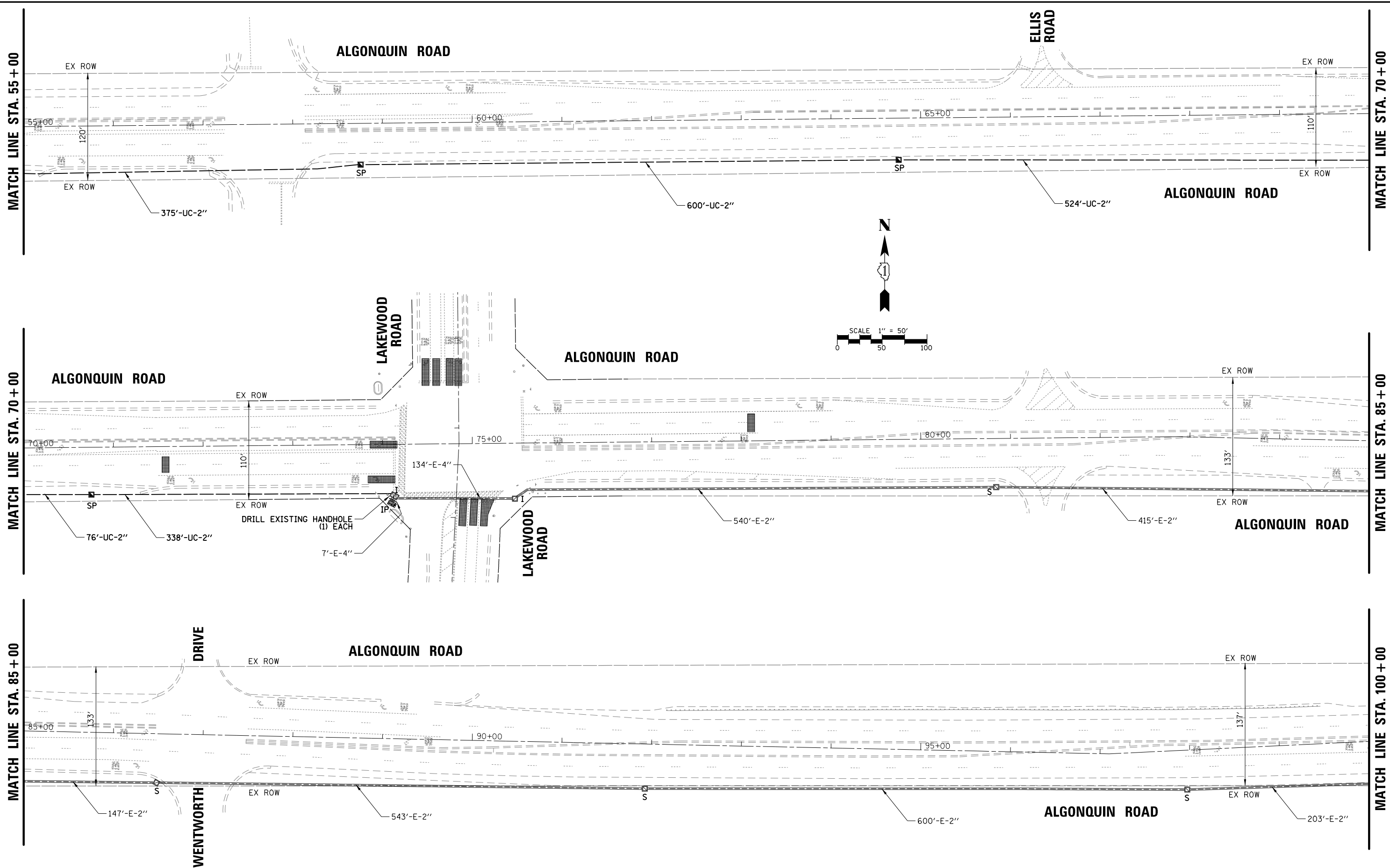
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	92
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

MATCH LINE STA. 40 + 00

MATCH LINE STA. 55 + 00

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	
	BLM. NOTED	
	STRUCTURE NOTATIONS OK'NO	
PLAN	SURVEYED	DATE
NOTE BOOK NO.	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	
	ADD. FILE NAME	

TS SHT NO. 68



FILE NAME = TS-INT_02-Haligus-Harvest

USER NAME = pandrows
 PLOT SCALE = 100'
 PLOT DATE = 1/12/2022

DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - (SHEET 2 OF 4)
 ALGONQUIN ROAD FROM HALIGUS ROAD TO HARVEST GATE ROAD / TALAGA DRIVE
 SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

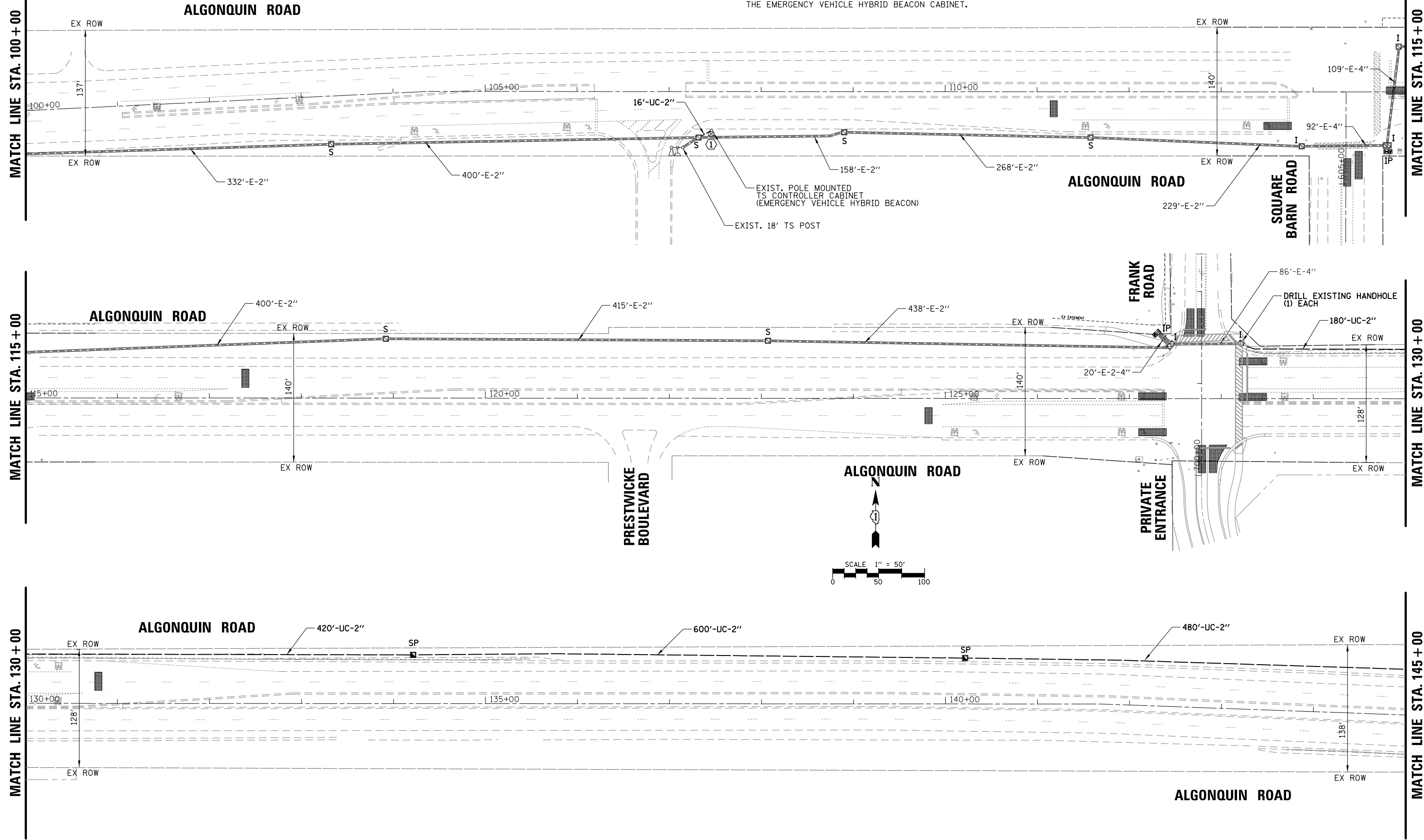
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	93
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H50	

DATE	BY	DATE	BY
DATE	BY	DATE	BY

TS SHT NO. 69

CONSTRUCTION NOTE:

① INSTALL AND TERMINATE FIBER OPTIC CABLE INTO THE EMERGENCY VEHICLE HYBRID BEACON CABINET.



FILE NAME = TS-INT_03.Haligus-Harvest

USER NAME = pandrews
 DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE - 1/12/2022

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

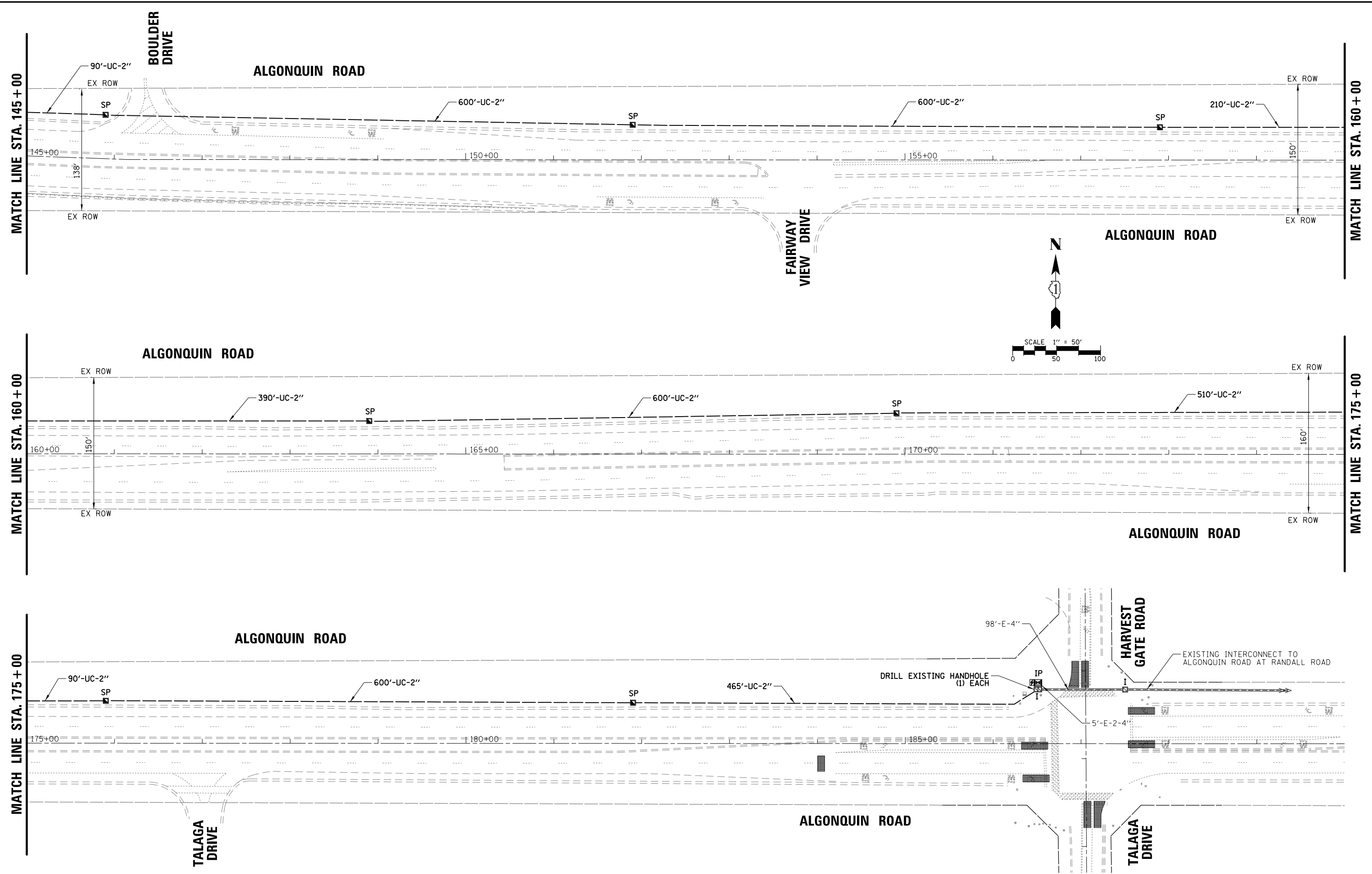
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - (SHEET 3 OF 4)
 ALGONQUIN ROAD FROM HALIGUS ROAD TO HARVEST GATE ROAD / TALAGA DRIVE
 SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	94
CONTRACT NO. 61H50				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
	BLM. NOTED	
	STRUCTURE NOTATIONS OK'D	
NOTE BOOK NO.		
PLAN	SURVEYED	DATE
	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	
	ADD. FILE NAME	
NOTE BOOK NO.		

TS SHT NO. 70



FILE NAME = TS-INT_04_Haligus-Harvest

USER NAME = pandrows
 PLOT SCALE = 100'
 PLOT DATE = 1/12/2022

DESIGNED - TFS
 DRAWN - FPB
 CHECKED - GMZ
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN - (SHEET 4 OF 4)
 ALGONQUIN ROAD FROM HALIGUS ROAD TO HARVEST GATE ROAD / TALAGA DRIVE
 SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

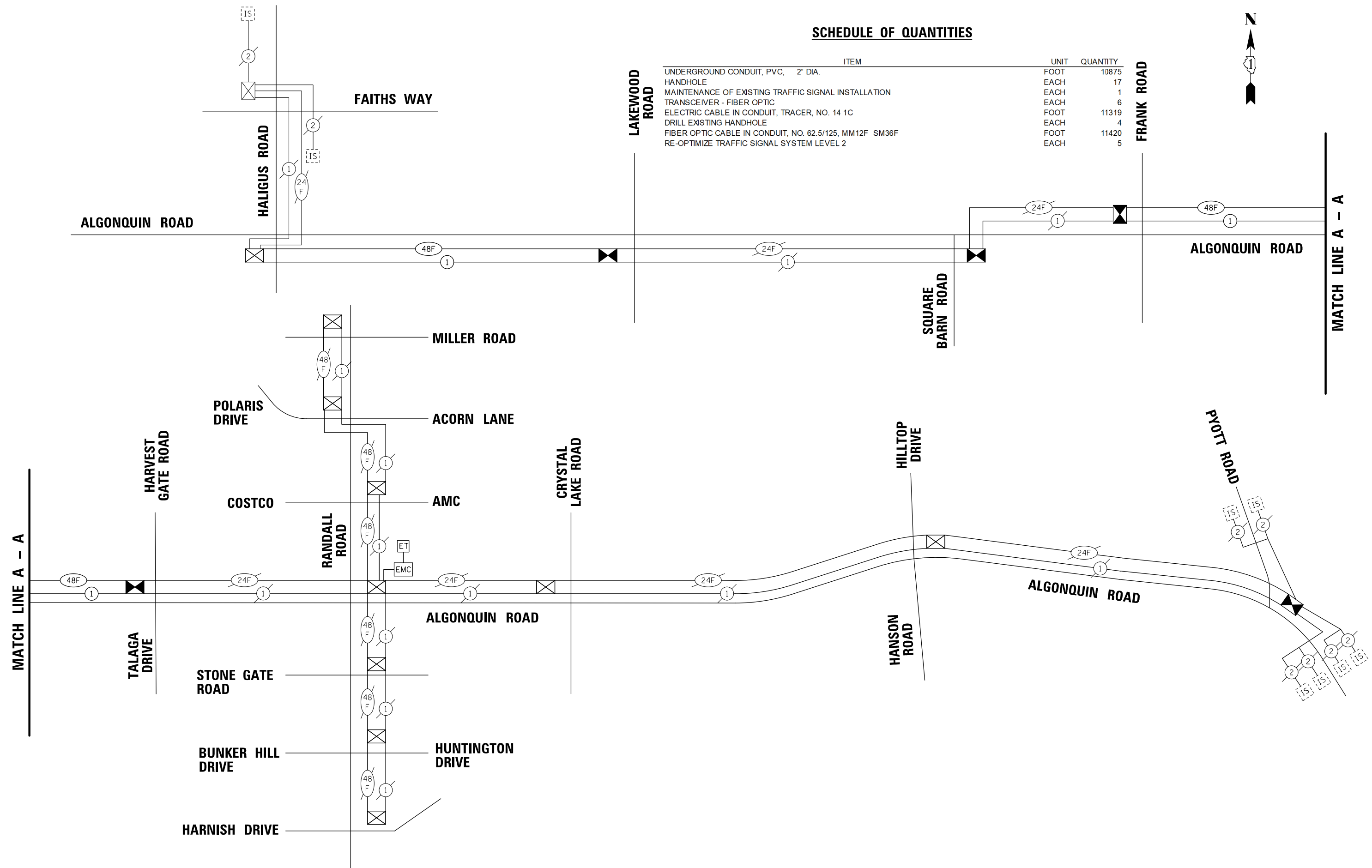
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	95
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
	BLM. NOTED	
	STRUCTURE NOTATIONS OK'D	
PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	BY
	RT. OF WAY CHECKED	
	ADD. FILE NAME	

TS SHT NO. 71

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	10875
HANDHOLE	EACH	17
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	6
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	11319
DRILL EXISTING HANDHOLE	EACH	4
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM36F	FOOT	11420
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	5



FILE NAME = TS-INT_Prop Schematic	USER NAME = pandrews	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT SCHEMATIC DIAGRAM			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - FPB	REVISED -		SCALE: NOT TO SCALE	SHEET NO.	OF	SHEETS	STA.	TO STA.	18-00480-00-TL	132	96
		CHECKED - GMZ	REVISED -								CONTRACT NO. 61H50		
		DATE -	REVISED -								ILLINOIS FED. AID PROJECT		

LIGHTING GENERAL NOTES

1. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT (800) 892-0123.
2. BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD AND UNDERGROUND ELECTRIC UTILITIES THE CONTRACTOR SHALL CALL COM ED FOR LOCATION APPROVAL AND MINIMUM CLEARANCE REQUIREMENTS.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/ DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
 - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AS PREPARED BY IDOT.
 - B. "THE NATIONAL ELECTRICAL CODE".
 - C. MUNICIPAL CODES & STANDARDS.
5. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED BY THE ENGINEER.
6. ALL UNDERGROUND LIGHTING WIRING SHALL BE XLP TYPE-USE, EXTRA ABRASION RESISTANCE, 600 VOLTS, INSTALLED IN SCH 40 HDPE CONDUIT A MINIMUM 30 INCHES BELOW FINISHED GRADE, FOLLOWING THE ROADWAY OR SIDEWALK EDGE.
7. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, (IF APPLICABLE) AND HAVE BEEN REVIEWED BY THE ENGINEER.
8. TO MAINTAIN THE STRUCTURAL INTEGRITY OF LIGHT POLES WITH LUMINAIRE ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES.
9. THE LIGHT POLE LOCATIONS SHALL COMPLY WITH THE MINIMUM CLEAR WIDTH FOR AN ACCESSIBLE ROUTE FOR SIDEWALKS PER CURRENT AMERICAN WITH DISABILITIES ACT (ADA) REQUIREMENTS (COMPLY WITH IDOT BDE CHAPTER 17-4.04 AND PROWAG R301.1).
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF THE TOP OF FOUNDATION ELEVATION WITH THE FINISHED GRADE.
11. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL PROPOSED ELECTRICAL EQUIPMENT FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER. ALL UTILITIES SHALL BE LOCATED PRIOR TO MARKING PROPOSED ELECTRICAL EQUIPMENT.
13. THE ELECTRICAL CONTRACTOR SHALL FURNISH TWO SETS OF FULL SIZE RECORD DRAWINGS TO THE ENGINEER UPON COMPLETION OF THE LIGHTING AND ELECTRICAL IMPROVEMENTS. THE DRAWINGS SHALL SHOW THE INSTALLED LOCATIONS OF ALL LIGHT POLES, UNDERGROUND CONDUITS/WIRING, HANDHOLES, JUNCTION BOXES AND CONTROLLER CABINETS. THE DRAWINGS WILL BE REVIEWED BY THE ENGINEER.
14. UPON COMPLETION OF THE PROPOSED LIGHTING IMPROVEMENTS, THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLATION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS. ALL ELECTRICAL TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.

BILL OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	65
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1/4" DIA.	FOOT	205
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1/2" DIA.	FOOT	1015
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 14	FOOT	3925
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	6390
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	9930
AERIAL CABLE, 2-1/C NO. 8 WITH MESSENGER WIRE	FOOT	3190
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	2
REMOVAL OF POLE FOUNDATION	EACH	2
• REMOVE EXISTING CABLE	FOOT	2770
• MAST ARM, STREET LIGHTING, 15'	EACH	35
• REMOVAL OF LIGHTING LUMINAIRE, SALVAGE	EACH	11
• LUMINAIRE, LED, SPECIAL	EACH	4
• CONDUIT SPLICE	EACH	32
• HANDHOLE, COMPOSITE CONCRETE (SPECIAL)	EACH	14
• EXPOSE AND RELOCATE EXISTING UNIT DUCT	FOOT	715
• COMBINATION LIGHTING CONTROLLER	EACH	3
• REMOVAL OF TEMPORARY LUMINAIRE	EACH	37
• RELOCATE EXISTING LUMINAIRE	EACH	13
• LUMINAIRE INSTALLATION, TYPE 1	EACH	5
• LUMINAIRE INSTALLATION, TYPE 2	EACH	30
• CABLE, SPECIAL	FOOT	1370
• LUMINAIRE INSTALLATION, TYPE 3	EACH	4
• LUMINAIRE INSTALLATION, TYPE 4	EACH	10
• MAINTAIN EXISTING LIGHTING SYSTEM	LSUM	1
• SEE SPECIAL PROVISION		

ABBREVIATIONS

A	AMPS
CKT	CIRCUIT
CNC	COILABLE NON-METALLIC CONDUIT
DIA	DIAMETER
FT	FOOT
FOC	FACE OF CURB
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HDPE	HIGH DENSITY POLYETHYLENE
HH	HAND HOLE
HPS	HIGH PRESSURE SODIUM
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
SS	STAINLESS STEEL
STA	STATION
V	VOLTS
W	WATTS
WR	WEATHER RESISTANT

<p>PROFILE</p> <p>DATE: _____</p> <p>BY: _____</p> <p>SURVEYED _____</p> <p>GRADES CHECKED _____</p> <p>BLM. NOTED _____</p> <p>STRUCTURE NOTATIONS OK/NO</p> <p>NOTE BOOK NO. _____</p>	<p>PLAN</p> <p>DATE: _____</p> <p>BY: _____</p> <p>SURVEYED _____</p> <p>ALIGNMENT CHECKED _____</p> <p>RT. OF WAY CHECKED _____</p> <p>ADD. FILE NAME _____</p> <p>NOTE BOOK NO. _____</p>
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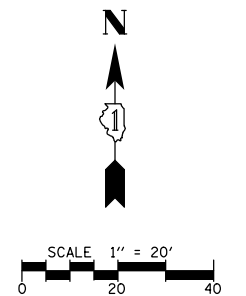
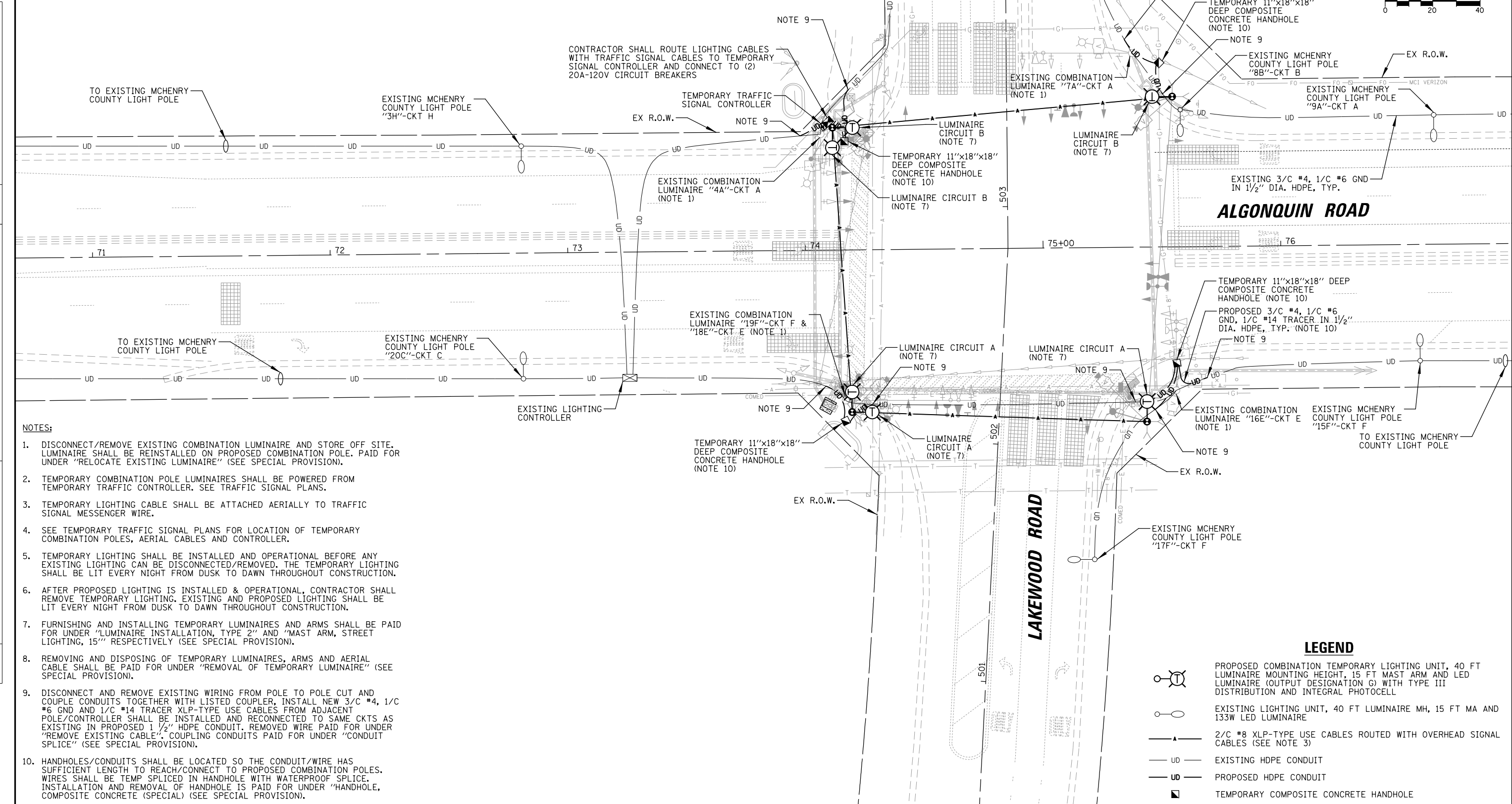


CHRISTOPHER B. BURKE
ENGINEERING LTD.

8575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(617) 823-5500

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

FILE	DATE	BY
TLGT.180176.02		

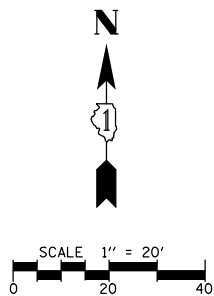


- NOTES:**
1. DISCONNECT/REMOVE EXISTING COMBINATION LUMINAIRE AND STORE OFF SITE. LUMINAIRE SHALL BE REINSTALLED ON PROPOSED COMBINATION POLE. PAID FOR UNDER "RELOCATE EXISTING LUMINAIRE" (SEE SPECIAL PROVISION).
 2. TEMPORARY COMBINATION POLE LUMINAIRES SHALL BE POWERED FROM TEMPORARY TRAFFIC CONTROLLER. SEE TRAFFIC SIGNAL PLANS.
 3. TEMPORARY LIGHTING CABLE SHALL BE ATTACHED AERIALY TO TRAFFIC SIGNAL MESSENGER WIRE.
 4. SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR LOCATION OF TEMPORARY COMBINATION POLES, AERIAL CABLES AND CONTROLLER.
 5. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY EXISTING LIGHTING CAN BE DISCONNECTED/REMOVED. THE TEMPORARY LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
 6. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING. EXISTING AND PROPOSED LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
 7. FURNISHING AND INSTALLING TEMPORARY LUMINAIRES AND ARMS SHALL BE PAID FOR UNDER "LUMINAIRE INSTALLATION, TYPE 2" AND "MAST ARM, STREET LIGHTING, 15'" RESPECTIVELY (SEE SPECIAL PROVISION).
 8. REMOVING AND DISPOSING OF TEMPORARY LUMINAIRES, ARMS AND AERIAL CABLE SHALL BE PAID FOR UNDER "REMOVAL OF TEMPORARY LUMINAIRE" (SEE SPECIAL PROVISION).
 9. DISCONNECT AND REMOVE EXISTING WIRING FROM POLE TO POLE CUT AND COUPLE CONDUITS TOGETHER WITH LISTED COUPLER, INSTALL NEW 3/C #4, 1/C #6 GND AND 1/C #14 TRACER XLP-TYPE USE CABLES FROM ADJACENT POLE/CONTROLLER SHALL BE INSTALLED AND RECONNECTED TO SAME CKTS AS EXISTING IN PROPOSED 1 1/2" HDPE CONDUIT. REMOVED WIRE PAID FOR UNDER "REMOVE EXISTING CABLE", COUPLING CONDUITS PAID FOR UNDER "CONDUIT SPLICE" (SEE SPECIAL PROVISION).
 10. HANDHOLES/CONDUITS SHALL BE LOCATED SO THE CONDUIT/WIRE HAS SUFFICIENT LENGTH TO REACH/CONNECT TO PROPOSED COMBINATION POLES. WIRES SHALL BE TEMP SPliced IN HANDHOLE WITH WATERPROOF SPLICE. INSTALLATION AND REMOVAL OF HANDHOLE IS PAID FOR UNDER "HANDHOLE, COMPOSITE CONCRETE (SPECIAL)" (SEE SPECIAL PROVISION).

LEGEND

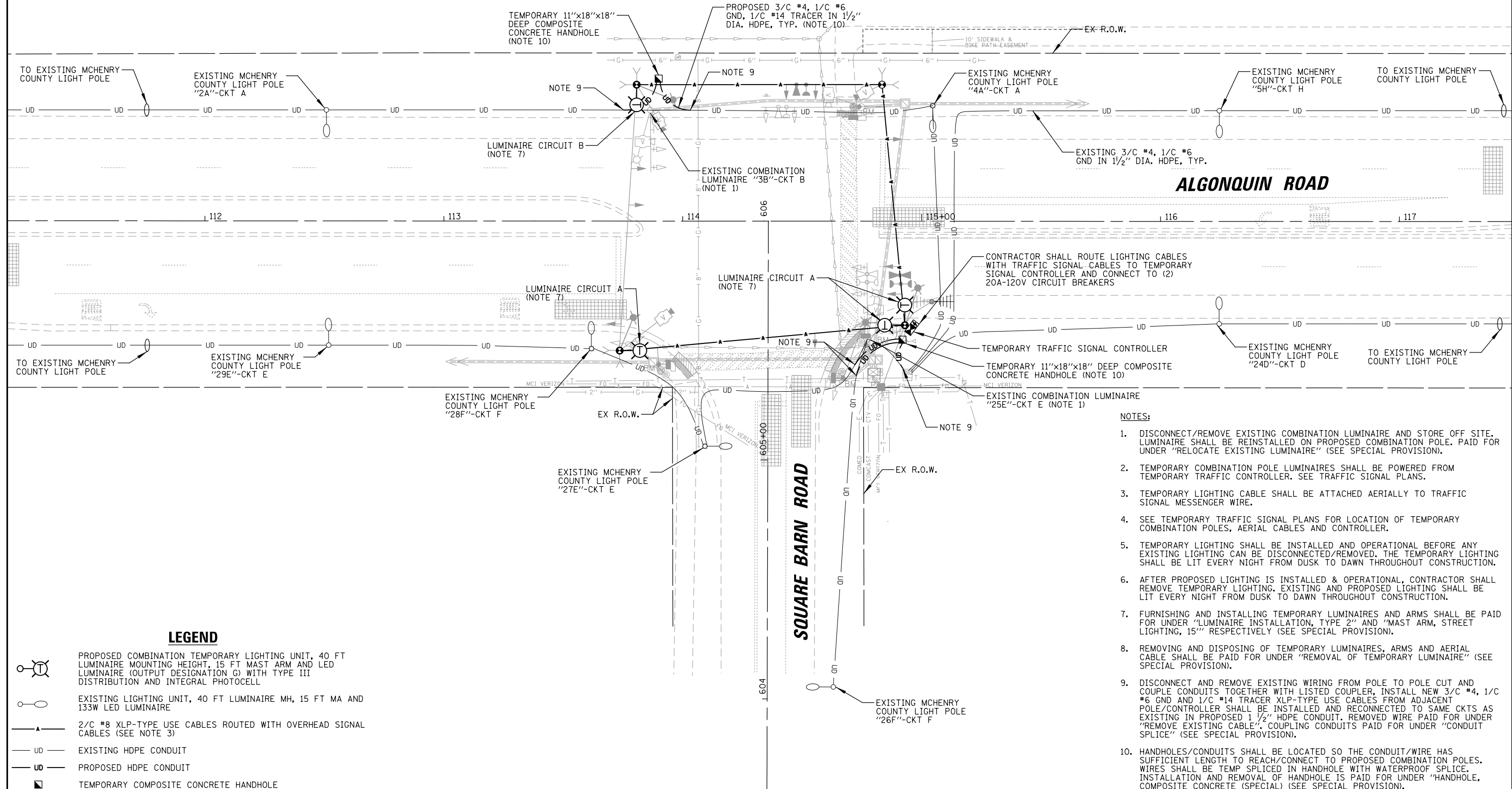
	PROPOSED COMBINATION TEMPORARY LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 15 FT MAST ARM AND LED LUMINAIRE (OUTPUT DESIGNATION G) WITH TYPE III DISTRIBUTION AND INTEGRAL PHOTOCELL
	EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 133W LED LUMINAIRE
	2/C #8 XLP-TYPE USE CABLES ROUTED WITH OVERHEAD SIGNAL CABLES (SEE NOTE 3)
	EXISTING HDPE CONDUIT
	PROPOSED HDPE CONDUIT
	TEMPORARY COMPOSITE CONCRETE HANDHOLE

FILE NAME = TLGT.180176.02	USER NAME = pandrows	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY /REMOVAL LIGHTING PLAN ALGONQUIN ROAD AT LAKEWOOD ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 48"	DRAWN - RJJ	REVISED -				18-00480-00-TL	MCHENRY	132	99	
	PLOT DATE = 1/12/2022	CHECKED - AJD	REVISED -			SCALE: 1" = 40'		SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 61H50	
		DATE -	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			



DATE	BY	DATE	BY
DATE	BY	DATE	BY

FILE NAME	USER NAME	DESIGNED	REVISED
TLGT.180176.03	pandrows	- AJD	-
		DRAWN	REVISED
		- RJJ	-
		CHECKED	REVISED
		- AJD	-
		DATE	REVISED
		-	-



LEGEND

- PROPOSED COMBINATION TEMPORARY LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 15 FT MAST ARM AND LED LUMINAIRE (OUTPUT DESIGNATION G) WITH TYPE III DISTRIBUTION AND INTEGRAL PHOTOCCELL
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 133W LED LUMINAIRE
- 2/C #8 XLP-TYPE USE CABLES ROUTED WITH OVERHEAD SIGNAL CABLES (SEE NOTE 3)
- EXISTING HDPE CONDUIT
- PROPOSED HDPE CONDUIT
- TEMPORARY COMPOSITE CONCRETE HANDHOLE

NOTES:

1. DISCONNECT/REMOVE EXISTING COMBINATION LUMINAIRE AND STORE OFF SITE. LUMINAIRE SHALL BE REINSTALLED ON PROPOSED COMBINATION POLE. PAID FOR UNDER "RELOCATE EXISTING LUMINAIRE" (SEE SPECIAL PROVISION).
2. TEMPORARY COMBINATION POLE LUMINAIRES SHALL BE POWERED FROM TEMPORARY TRAFFIC CONTROLLER. SEE TRAFFIC SIGNAL PLANS.
3. TEMPORARY LIGHTING CABLE SHALL BE ATTACHED AERIALY TO TRAFFIC SIGNAL MESSENGER WIRE.
4. SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR LOCATION OF TEMPORARY COMBINATION POLES, AERIAL CABLES AND CONTROLLER.
5. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY EXISTING LIGHTING CAN BE DISCONNECTED/REMOVED. THE TEMPORARY LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
6. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING. EXISTING AND PROPOSED LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
7. FURNISHING AND INSTALLING TEMPORARY LUMINAIRES AND ARMS SHALL BE PAID FOR UNDER "LUMINAIRE INSTALLATION, TYPE 2" AND "MAST ARM, STREET LIGHTING, 15" RESPECTIVELY (SEE SPECIAL PROVISION).
8. REMOVING AND DISPOSING OF TEMPORARY LUMINAIRES, ARMS AND AERIAL CABLE SHALL BE PAID FOR UNDER "REMOVAL OF TEMPORARY LUMINAIRE" (SEE SPECIAL PROVISION).
9. DISCONNECT AND REMOVE EXISTING WIRING FROM POLE TO POLE CUT AND COUPLE CONDUITS TOGETHER WITH LISTED COUPLER, INSTALL NEW 3/C #4, 1/C #6 GND AND 1/C #14 TRACER XLP-TYPE USE CABLES FROM ADJACENT POLE/CONTROLLER SHALL BE INSTALLED AND RECONNECTED TO SAME CKTS AS EXISTING IN PROPOSED 1 1/2" HDPE CONDUIT. REMOVED WIRE PAID FOR UNDER "REMOVE EXISTING CABLE", COUPLING CONDUITS PAID FOR UNDER "CONDUIT SPLICE" (SEE SPECIAL PROVISION).
10. HANDHOLES/CONDUITS SHALL BE LOCATED SO THE CONDUIT/WIRE HAS SUFFICIENT LENGTH TO REACH/CONNECT TO PROPOSED COMBINATION POLES. WIRES SHALL BE TEMP SPLICED IN HANDHOLE WITH WATERPROOF SPLICE. INSTALLATION AND REMOVAL OF HANDHOLE IS PAID FOR UNDER "HANDHOLE, COMPOSITE CONCRETE (SPECIAL)" (SEE SPECIAL PROVISION).

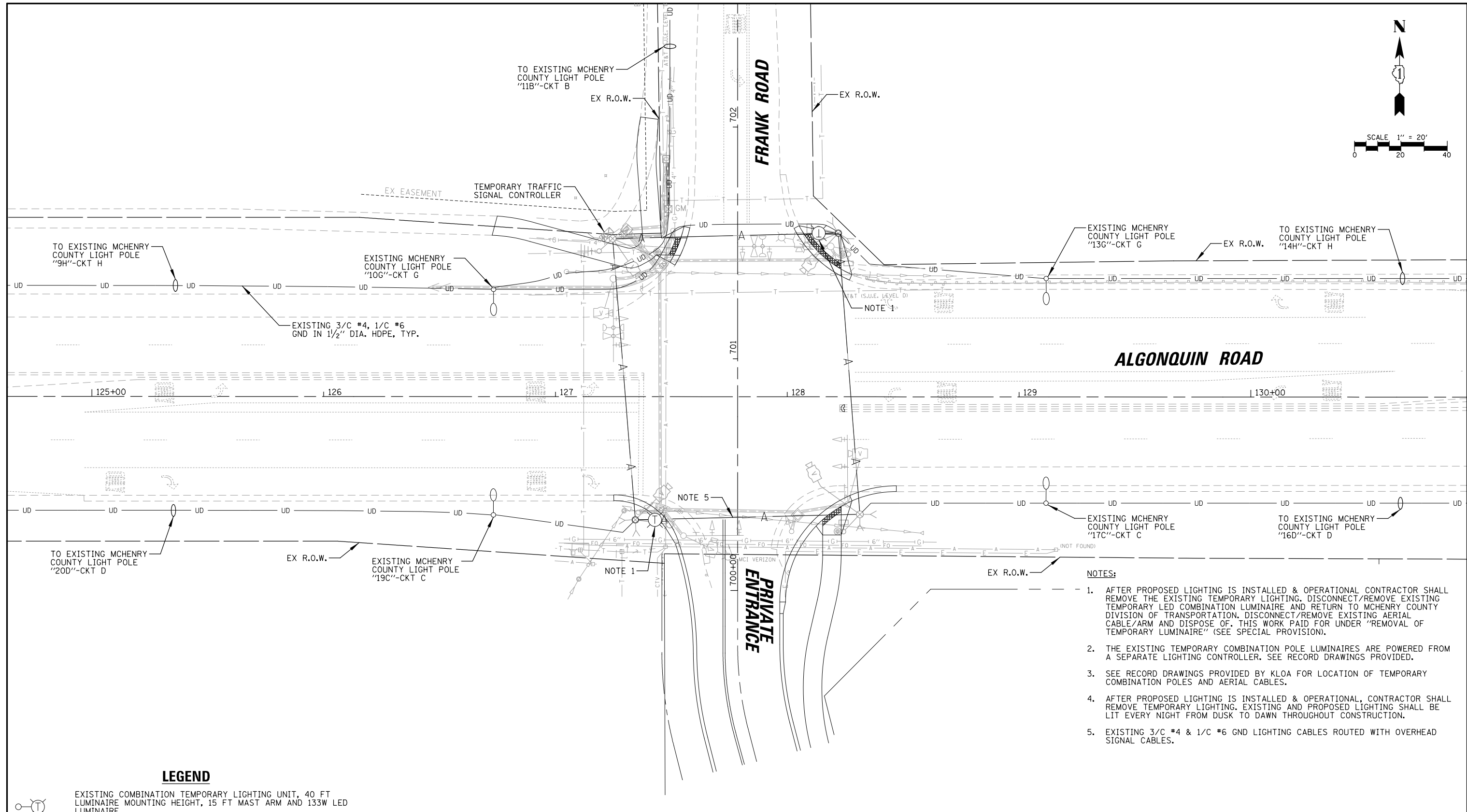
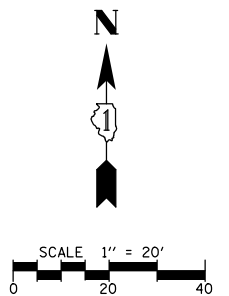
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY /REMOVAL LIGHTING PLAN
ALGONQUIN ROAD AT SQUARE BARN ROAD**

SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	100
CONTRACT NO. 61H50				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED
		RT. OF WAY	FILE NAME				RT. OF WAY	FILE NAME	
PLAN	NO.	NO.	NO.	NO.	PROFILE	NO.	NO.	NO.	NO.
CHRISTOPHER B. BURKE ENGINEERING LTD. 9575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (630) 923-5930									
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED
		STRUCTURE	NOTATIONS	CHKD			STRUCTURE	NOTATIONS	CHKD

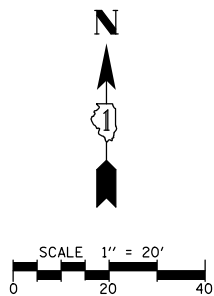


- NOTES:**
1. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL CONTRACTOR SHALL REMOVE THE EXISTING TEMPORARY LIGHTING. DISCONNECT/REMOVE EXISTING TEMPORARY LED COMBINATION LUMINAIRE AND RETURN TO MCHENRY COUNTY DIVISION OF TRANSPORTATION. DISCONNECT/REMOVE EXISTING AERIAL CABLE/ARM AND DISPOSE OF. THIS WORK PAID FOR UNDER "REMOVAL OF TEMPORARY LUMINAIRE" (SEE SPECIAL PROVISION).
 2. THE EXISTING TEMPORARY COMBINATION POLE LUMINAIRES ARE POWERED FROM A SEPARATE LIGHTING CONTROLLER. SEE RECORD DRAWINGS PROVIDED.
 3. SEE RECORD DRAWINGS PROVIDED BY KLOA FOR LOCATION OF TEMPORARY COMBINATION POLES AND AERIAL CABLES.
 4. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING. EXISTING AND PROPOSED LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
 5. EXISTING 3/C #4 & 1/C #6 GND LIGHTING CABLES ROUTED WITH OVERHEAD SIGNAL CABLES.

LEGEND

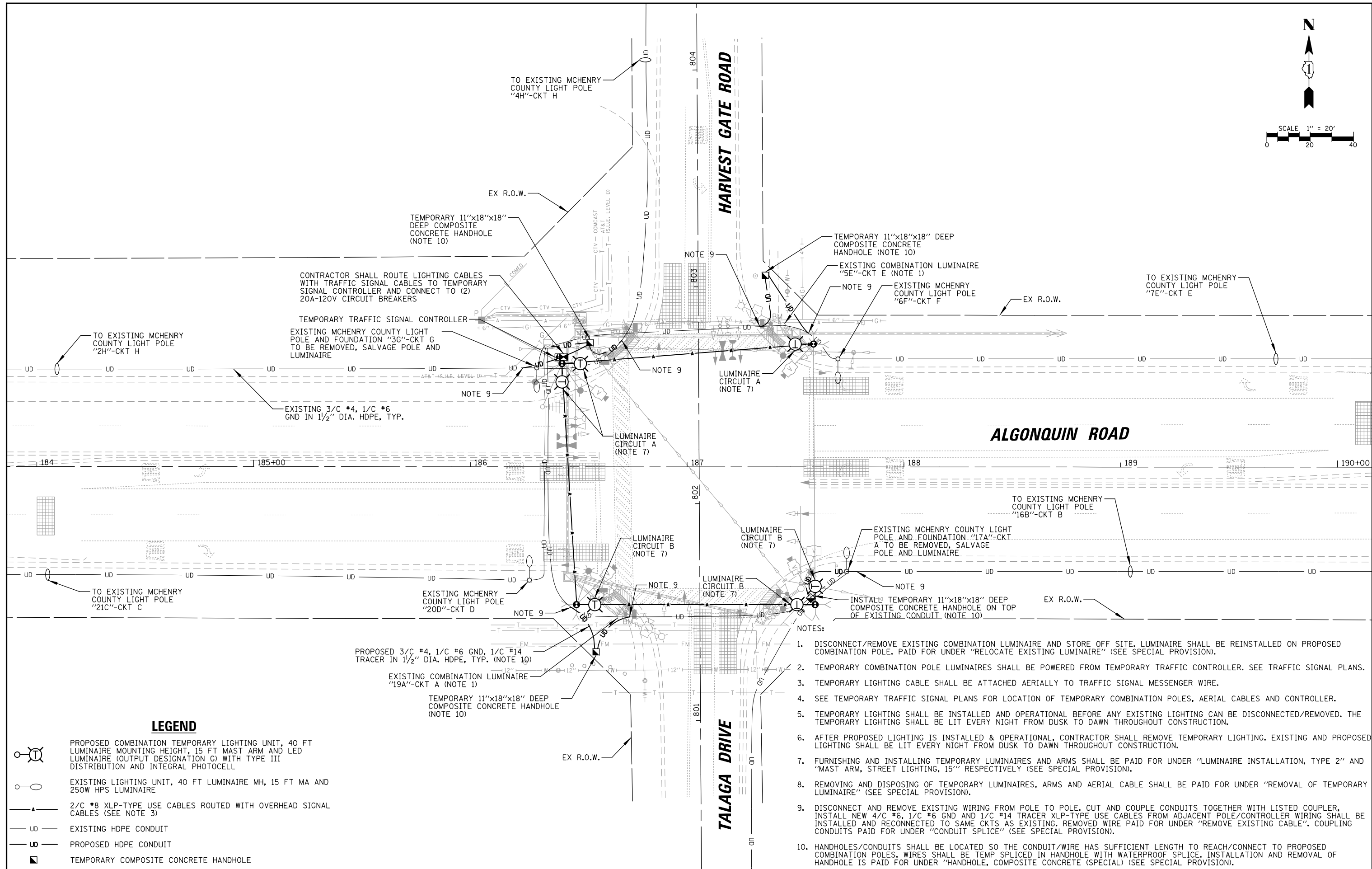
- EXISTING COMBINATION TEMPORARY LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 15 FT MAST ARM AND 133W LED LUMINAIRE
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 133W LED LUMINAIRE
- EXISTING OVERHEAD SIGNAL CABLES
- EXISTING HDPE CONDUIT

FILE NAME =	USER NAME = pandrows	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL LIGHTING PLAN ALGONQUIN ROAD AT FRANK ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
TLGT.180176_04		DRAWN - RJJ	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF	SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	101
		CHECKED - AJD	REVISED -		CONTRACT NO. 61H50									
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									



DATE	BY	DATE	BY
DATE	BY	DATE	BY

FILE NAME	USER NAME	DESIGNED	REVISED
TLGT.180176.05	pandrews	AJD	
		DRAWN	REVISED
		RJJ	
		CHECKED	REVISED
		AJD	
		DATE	REVISED



LEGEND

- PROPOSED COMBINATION TEMPORARY LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 15 FT MAST ARM AND LED LUMINAIRE (OUTPUT DESIGNATION G) WITH TYPE III DISTRIBUTION AND INTEGRAL PHOTOCCELL
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 250W HPS LUMINAIRE
- 2/C #8 XLP-TYPE USE CABLES ROUTED WITH OVERHEAD SIGNAL CABLES (SEE NOTE 3)
- EXISTING HDPE CONDUIT
- PROPOSED HDPE CONDUIT
- TEMPORARY COMPOSITE CONCRETE HANDHOLE

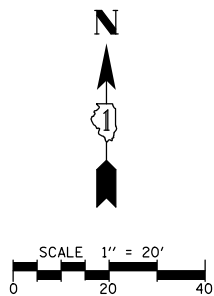
- NOTES:
1. DISCONNECT/REMOVE EXISTING COMBINATION LUMINAIRE AND STORE OFF SITE. LUMINAIRE SHALL BE REINSTALLED ON PROPOSED COMBINATION POLE. PAID FOR UNDER "RELOCATE EXISTING LUMINAIRE" (SEE SPECIAL PROVISION).
 2. TEMPORARY COMBINATION POLE LUMINAIRES SHALL BE POWERED FROM TEMPORARY TRAFFIC CONTROLLER. SEE TRAFFIC SIGNAL PLANS.
 3. TEMPORARY LIGHTING CABLE SHALL BE ATTACHED AERIALY TO TRAFFIC SIGNAL MESSENGER WIRE.
 4. SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR LOCATION OF TEMPORARY COMBINATION POLES, AERIAL CABLES AND CONTROLLER.
 5. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY EXISTING LIGHTING CAN BE DISCONNECTED/REMOVED. THE TEMPORARY LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
 6. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING. EXISTING AND PROPOSED LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
 7. FURNISHING AND INSTALLING TEMPORARY LUMINAIRES AND ARMS SHALL BE PAID FOR UNDER "LUMINAIRE INSTALLATION, TYPE 2" AND "MAST ARM, STREET LIGHTING, 15" RESPECTIVELY (SEE SPECIAL PROVISION).
 8. REMOVING AND DISPOSING OF TEMPORARY LUMINAIRES, ARMS AND AERIAL CABLE SHALL BE PAID FOR UNDER "REMOVAL OF TEMPORARY LUMINAIRE" (SEE SPECIAL PROVISION).
 9. DISCONNECT AND REMOVE EXISTING WIRING FROM POLE TO POLE. CUT AND COUPLE CONDUITS TOGETHER WITH LISTED COUPLER, INSTALL NEW 4/C #6, 1/C #6 GND AND 1/C #14 TRACER XLP-TYPE USE CABLES FROM ADJACENT POLE/CONTROLLER WIRING SHALL BE INSTALLED AND RECONNECTED TO SAME CKTS AS EXISTING. REMOVED WIRE PAID FOR UNDER "REMOVE EXISTING CABLE". COUPLING CONDUITS PAID FOR UNDER "CONDUIT SPLICE" (SEE SPECIAL PROVISION).
 10. HANDHOLES/CONDUITS SHALL BE LOCATED SO THE CONDUIT/WIRE HAS SUFFICIENT LENGTH TO REACH/CONNECT TO PROPOSED COMBINATION POLES. WIRES SHALL BE TEMP SPLICED IN HANDHOLE WITH WATERPROOF SPLICE. INSTALLATION AND REMOVAL OF HANDHOLE IS PAID FOR UNDER "HANDHOLE, COMPOSITE CONCRETE (SPECIAL) (SEE SPECIAL PROVISION).

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

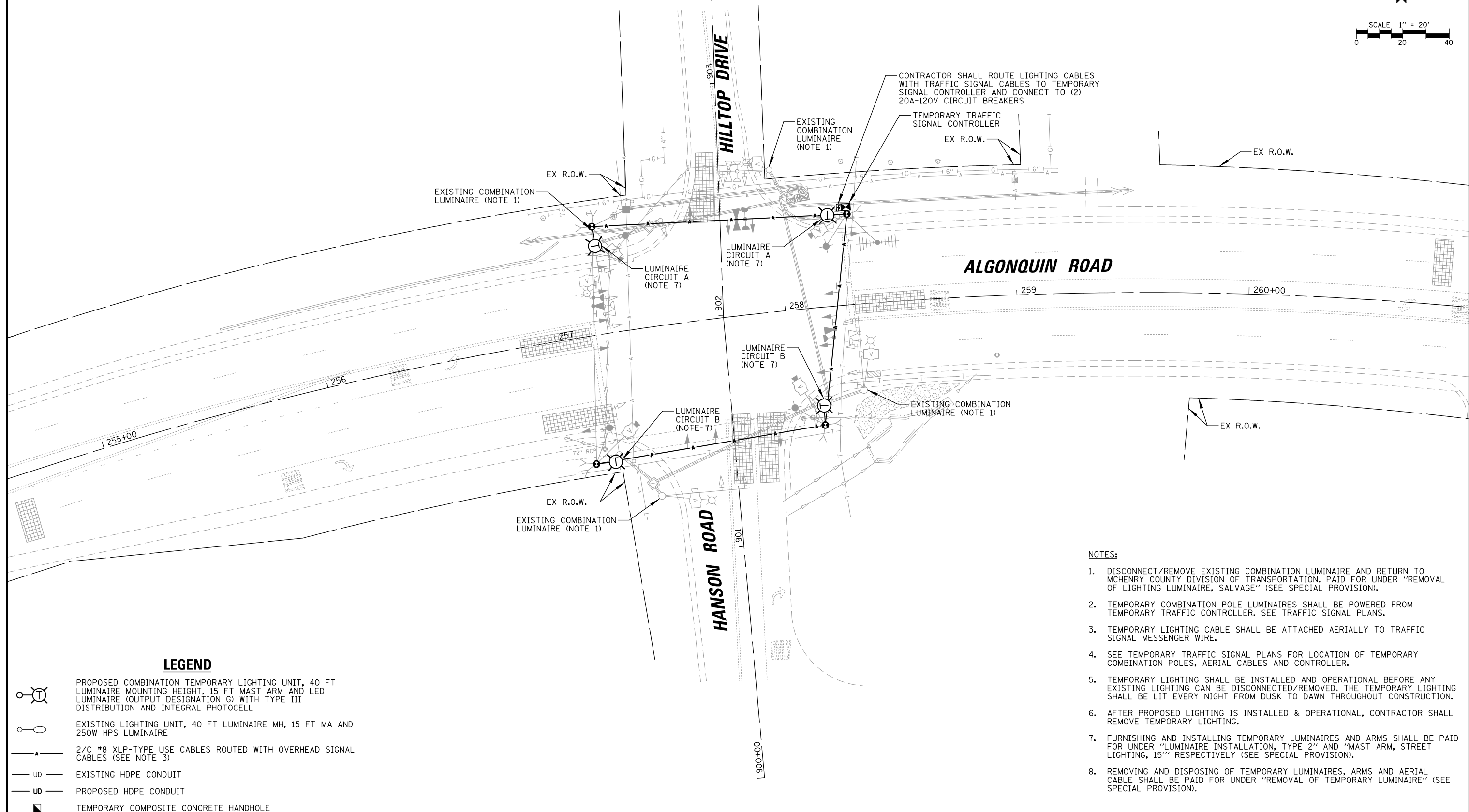
TEMPORARY /REMOVAL LIGHTING PLAN
ALGONQUIN ROAD AT HARVEST GATE ROAD /TALAGA DRIVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	102
CONTRACT NO. 61H50				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.



DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
		RT. OF WAY	CHECKED	FILE NAME	
PLAN	NOTE BOOK	NO.			
CHRISTOPHER B. BURKE ENGINEERING LTD. 9575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (617) 923-5930					
DATE	BY	SURVEYED	GRADES	CHECKED	DATE
		BLM. NOTED	STRUCTURE	NOTATIONS	CHKD
PROFILE	NOTE BOOK	NO.			



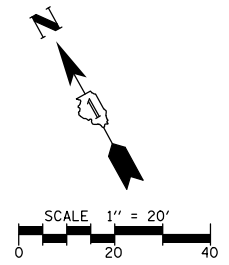
LEGEND

- PROPOSED COMBINATION TEMPORARY LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 15 FT MAST ARM AND LED LUMINAIRE (OUTPUT DESIGNATION G) WITH TYPE III DISTRIBUTION AND INTEGRAL PHOTOCELL
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 250W HPS LUMINAIRE
- 2/C #8 XLP-TYPE USE CABLES ROUTED WITH OVERHEAD SIGNAL CABLES (SEE NOTE 3)
- EXISTING HDPE CONDUIT
- PROPOSED HDPE CONDUIT
- TEMPORARY COMPOSITE CONCRETE HANDHOLE

NOTES:

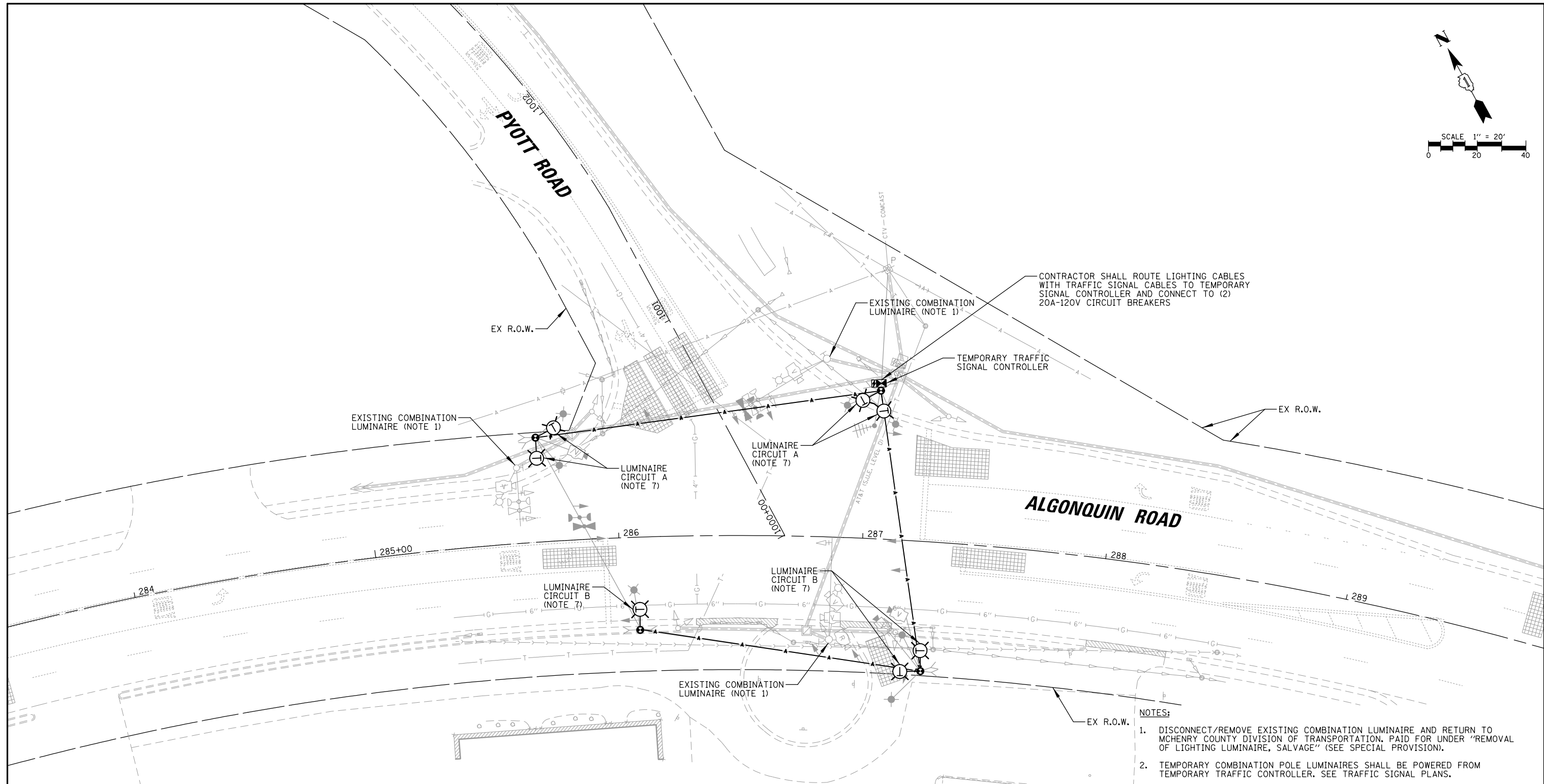
1. DISCONNECT/REMOVE EXISTING COMBINATION LUMINAIRE AND RETURN TO MCHENRY COUNTY DIVISION OF TRANSPORTATION. PAID FOR UNDER "REMOVAL OF LIGHTING LUMINAIRE, SALVAGE" (SEE SPECIAL PROVISION).
2. TEMPORARY COMBINATION POLE LUMINAIRES SHALL BE POWERED FROM TEMPORARY TRAFFIC CONTROLLER. SEE TRAFFIC SIGNAL PLANS.
3. TEMPORARY LIGHTING CABLE SHALL BE ATTACHED AERIALY TO TRAFFIC SIGNAL MESSENGER WIRE.
4. SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR LOCATION OF TEMPORARY COMBINATION POLES, AERIAL CABLES AND CONTROLLER.
5. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY EXISTING LIGHTING CAN BE DISCONNECTED/REMOVED. THE TEMPORARY LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
6. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING.
7. FURNISHING AND INSTALLING TEMPORARY LUMINAIRES AND ARMS SHALL BE PAID FOR UNDER "LUMINAIRE INSTALLATION, TYPE 2" AND "MAST ARM, STREET LIGHTING, 15'" RESPECTIVELY (SEE SPECIAL PROVISION).
8. REMOVING AND DISPOSING OF TEMPORARY LUMINAIRES, ARMS AND AERIAL CABLE SHALL BE PAID FOR UNDER "REMOVAL OF TEMPORARY LUMINAIRE" (SEE SPECIAL PROVISION).

FILE NAME =	USER NAME = pandrows	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY /REMOVAL LIGHTING PLAN ALGONQUIN ROAD AT HILLTOP DRIVE /HANSON ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TLGT.180176.06		DRAWN - RJJ	REVISED -				18-00480-00-TL	MCHENRY	132	103
		CHECKED - AJD	REVISED -			CONTRACT NO. 61H50				
		DATE -	REVISED -			SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.



DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
DATE	BY	SURVEYED	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK/NO

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (630) 923-5930



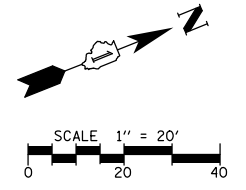
LEGEND

- PROPOSED COMBINATION TEMPORARY LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 15 FT MAST ARM AND LED LUMINAIRE (OUTPUT DESIGNATION G) WITH TYPE III DISTRIBUTION AND INTEGRAL PHOTOCCELL
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 250W HPS LUMINAIRE
- 2/C #8 XLP-TYPE USE CABLES ROUTED WITH OVERHEAD SIGNAL CABLES (SEE NOTE 3)
- EXISTING HDPE CONDUIT
- PROPOSED HDPE CONDUIT
- TEMPORARY COMPOSITE CONCRETE HANDHOLE

NOTES:

1. DISCONNECT/REMOVE EXISTING COMBINATION LUMINAIRE AND RETURN TO MCHENRY COUNTY DIVISION OF TRANSPORTATION. PAID FOR UNDER "REMOVAL OF LIGHTING LUMINAIRE, SALVAGE" (SEE SPECIAL PROVISION).
2. TEMPORARY COMBINATION POLE LUMINAIRES SHALL BE POWERED FROM TEMPORARY TRAFFIC CONTROLLER. SEE TRAFFIC SIGNAL PLANS.
3. TEMPORARY LIGHTING CABLE SHALL BE ATTACHED AERIALY TO TRAFFIC SIGNAL MESSENGER WIRE.
4. SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR LOCATION OF TEMPORARY COMBINATION POLES, AERIAL CABLES AND CONTROLLER.
5. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY EXISTING LIGHTING CAN BE DISCONNECTED/REMOVED. THE TEMPORARY LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
6. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING.
7. FURNISHING AND INSTALLING TEMPORARY LUMINAIRES AND ARMS SHALL BE PAID FOR UNDER "LUMINAIRE INSTALLATION, TYPE 2" AND "MAST ARM, STREET LIGHTING, 15" RESPECTIVELY (SEE SPECIAL PROVISION).
8. REMOVING AND DISPOSING OF TEMPORARY LUMINAIRES, ARMS AND AERIAL CABLE SHALL BE PAID FOR UNDER "REMOVAL OF TEMPORARY LUMINAIRE" (SEE SPECIAL PROVISION).

FILE NAME = TLGT_180176_07	USER NAME = pandrows	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY /REMOVAL LIGHTING PLAN ALGONQUIN ROAD AT PYOTT ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN - RJJ	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF	SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	104
		CHECKED - AJD	REVISED -								CONTRACT NO. 61H50			
		DATE -	REVISED -								FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



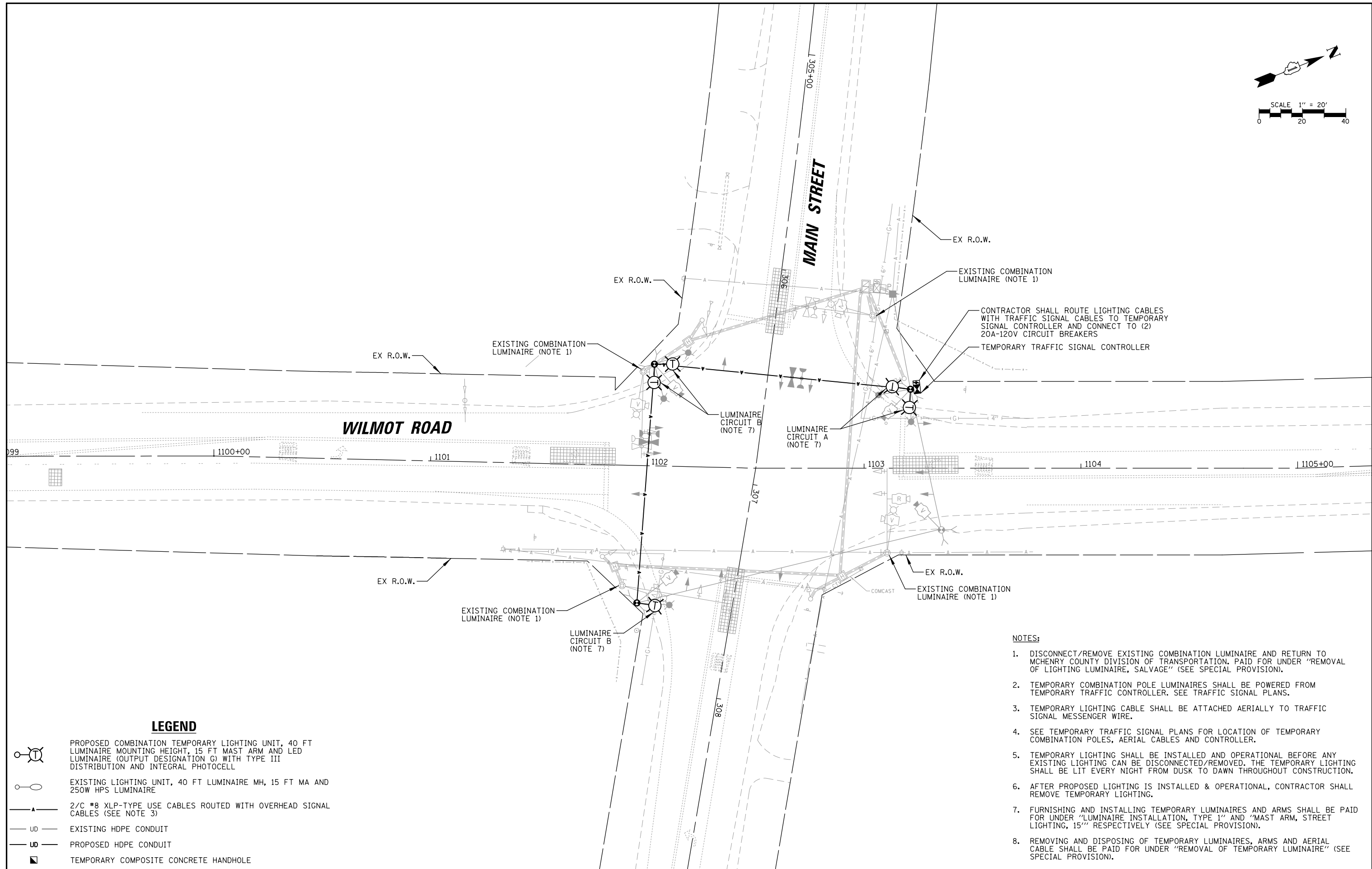
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
DATE	BY	SURVEYED	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D

FILE NAME - TLGT_180176_08
 USER NAME = pandrows
 DESIGNED - AJD
 DRAWN - RJJ
 PLOT SCALE = 48"
 PLOT DATE = 1/12/2022

ENGINEERING LTD.
 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 923-5930

CHRISTOPHER B. BURKE
 ENGINEERING LTD.

DATE
 BY
 SURVEYED
 GRADES CHECKED
 BLM. NOTED
 STRUCTURE NOTATIONS OK'D



LEGEND

- PROPOSED COMBINATION TEMPORARY LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 15 FT MAST ARM AND LED LUMINAIRE (OUTPUT DESIGNATION G) WITH TYPE III DISTRIBUTION AND INTEGRAL PHOTOCCELL
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 250W HPS LUMINAIRE
- 2/C #8 XLP-TYPE USE CABLES ROUTED WITH OVERHEAD SIGNAL CABLES (SEE NOTE 3)
- EXISTING HDPE CONDUIT
- PROPOSED HDPE CONDUIT
- TEMPORARY COMPOSITE CONCRETE HANDHOLE

NOTES:

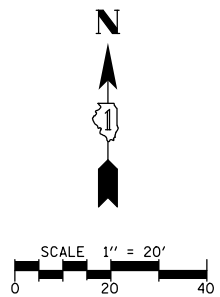
1. DISCONNECT/REMOVE EXISTING COMBINATION LUMINAIRE AND RETURN TO MCHENRY COUNTY DIVISION OF TRANSPORTATION. PAID FOR UNDER "REMOVAL OF LIGHTING LUMINAIRE, SALVAGE" (SEE SPECIAL PROVISION).
2. TEMPORARY COMBINATION POLE LUMINAIRES SHALL BE POWERED FROM TEMPORARY TRAFFIC SIGNAL CONTROLLER. SEE TRAFFIC SIGNAL PLANS.
3. TEMPORARY LIGHTING CABLE SHALL BE ATTACHED AERIALY TO TRAFFIC SIGNAL MESSENGER WIRE.
4. SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR LOCATION OF TEMPORARY COMBINATION POLES, AERIAL CABLES AND CONTROLLER.
5. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY EXISTING LIGHTING CAN BE DISCONNECTED/REMOVED. THE TEMPORARY LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
6. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING.
7. FURNISHING AND INSTALLING TEMPORARY LUMINAIRES AND ARMS SHALL BE PAID FOR UNDER "LUMINAIRE INSTALLATION, TYPE 1" AND "MAST ARM, STREET LIGHTING, 15" RESPECTIVELY (SEE SPECIAL PROVISION).
8. REMOVING AND DISPOSING OF TEMPORARY LUMINAIRES, ARMS AND AERIAL CABLE SHALL BE PAID FOR UNDER "REMOVAL OF TEMPORARY LUMINAIRE" (SEE SPECIAL PROVISION).

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

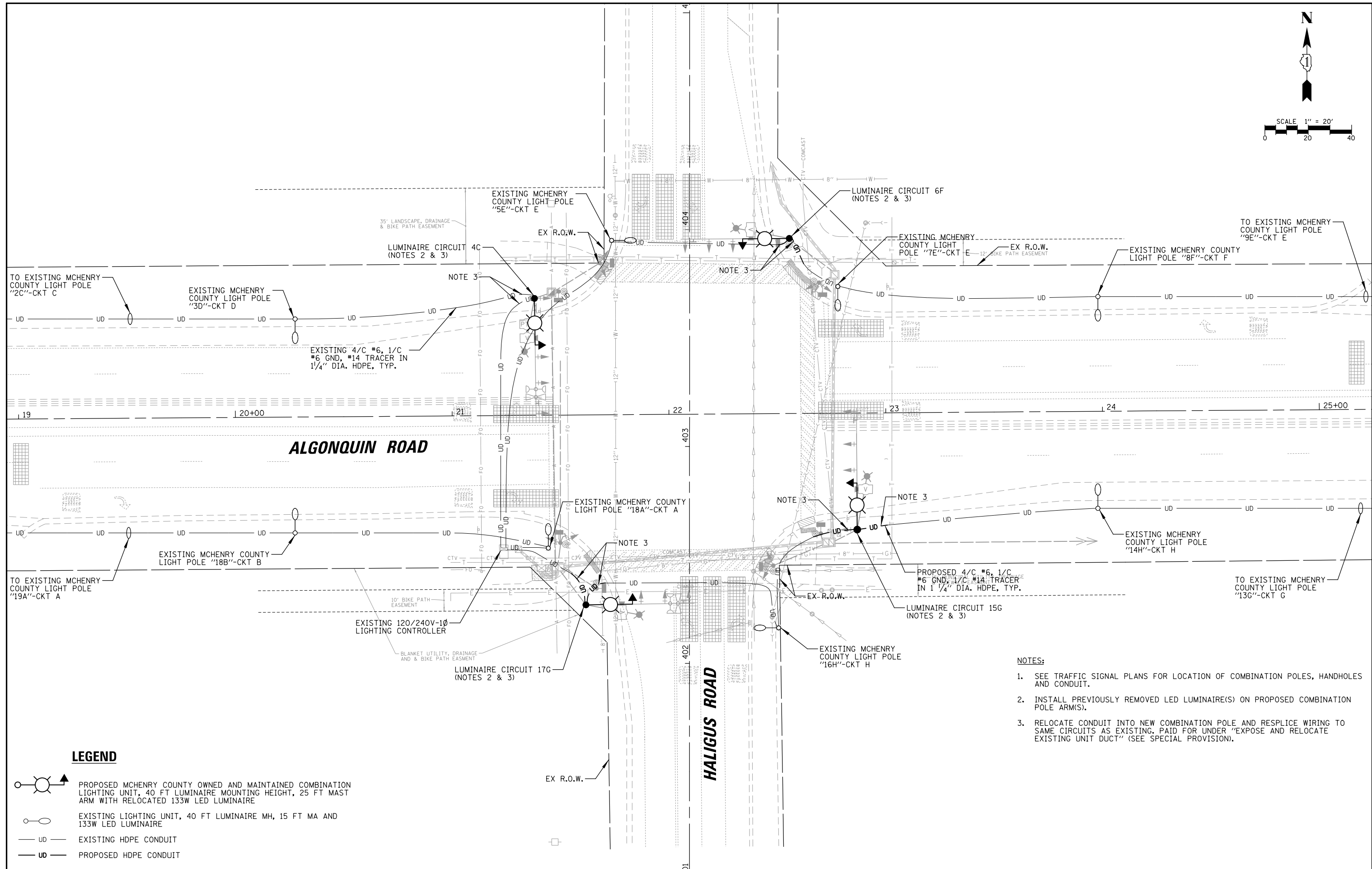
TEMPORARY /REMOVAL LIGHTING PLAN
 MAIN STREET AT WILMOT ROAD

SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	105
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H50	



DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED
CHRISTOPHER B. BURKE ENGINEERING LTD. 9575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (647) 923-5938											
DATE	BY	SURVEYED	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D	DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED



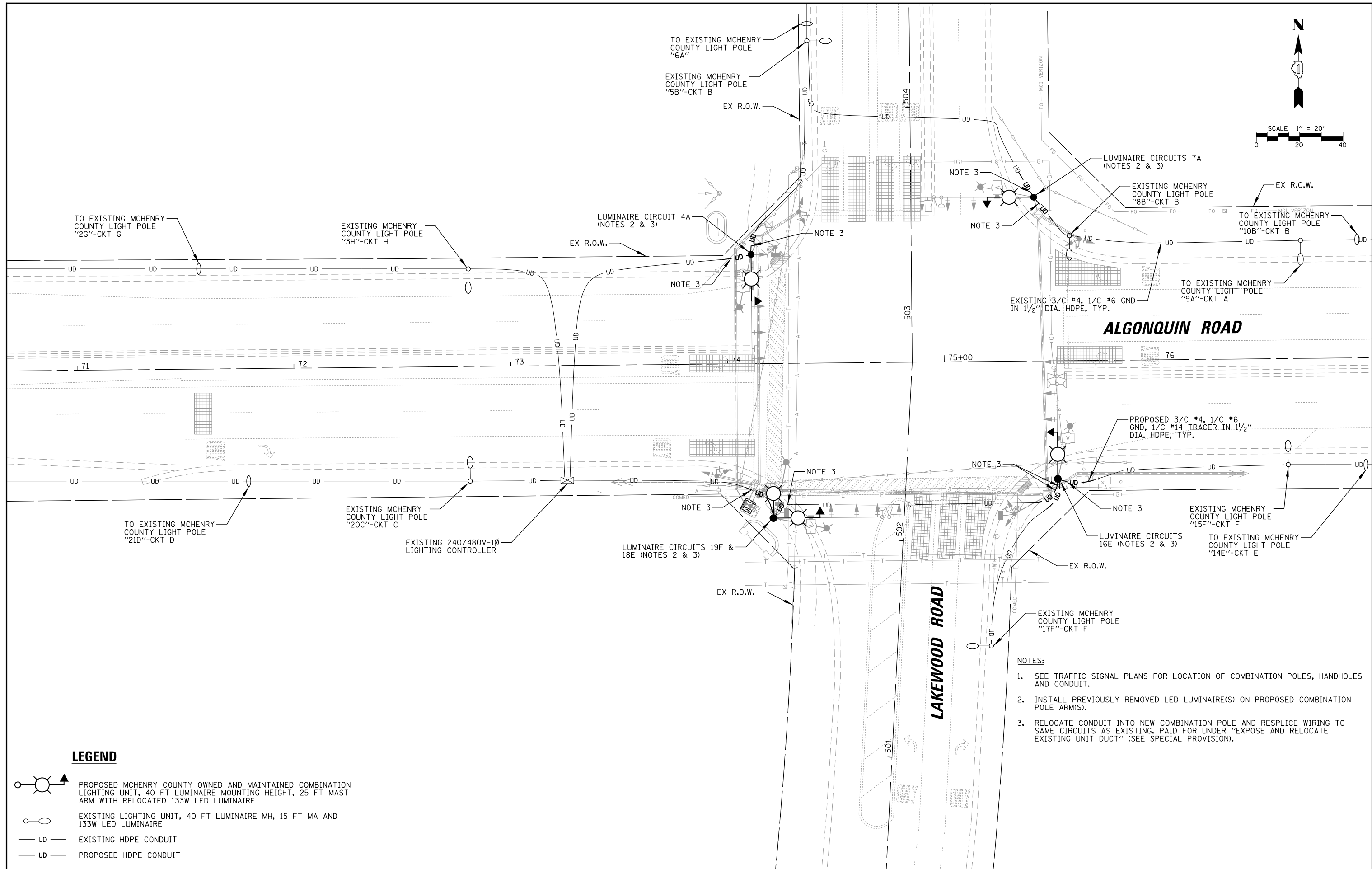
LEGEND

- PROPOSED MCHENRY COUNTY OWNED AND MAINTAINED COMBINATION LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 25 FT MAST ARM WITH RELOCATED 133W LED LUMINAIRE
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 133W LED LUMINAIRE
- EXISTING HDPE CONDUIT
- PROPOSED HDPE CONDUIT

- NOTES:**
- SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBINATION POLES, HANDHOLES AND CONDUIT.
 - INSTALL PREVIOUSLY REMOVED LED LUMINAIRE(S) ON PROPOSED COMBINATION POLE ARM(S).
 - RELOCATE CONDUIT INTO NEW COMBINATION POLE AND RESPLICE WIRING TO SAME CIRCUITS AS EXISTING. PAID FOR UNDER "EXPOSE AND RELOCATE EXISTING UNIT DUCT" (SEE SPECIAL PROVISION).

FILE NAME = LGT.180176.01	USER NAME = pandrows	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN ALGONQUIN ROAD AT HALIGUS ROAD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48"	DRAWN - RJJ	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	106
	PLOT DATE = 1/12/2022	CHECKED - AJD	REVISED -							CONTRACT NO. 61H50			
		DATE -	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED
		RT. OF WAY	NO.	NO.			RT. OF WAY	NO.	NO.
CHRISTOPHER B. BURKE ENGINEERING LTD. 9575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (617) 923-9500					PROFILE NOTE BOOK NO.				
PLAN NOTE BOOK NO.					STRUCTURE NOTATIONS CHK'D				



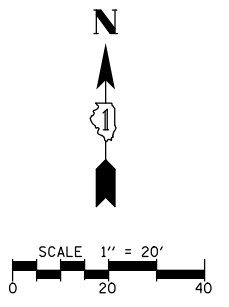
LEGEND

- PROPOSED MCHENRY COUNTY OWNED AND MAINTAINED COMBINATION LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 25 FT MAST ARM WITH RELOCATED 133W LED LUMINAIRE
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 133W LED LUMINAIRE
- EXISTING HDPE CONDUIT
- PROPOSED HDPE CONDUIT

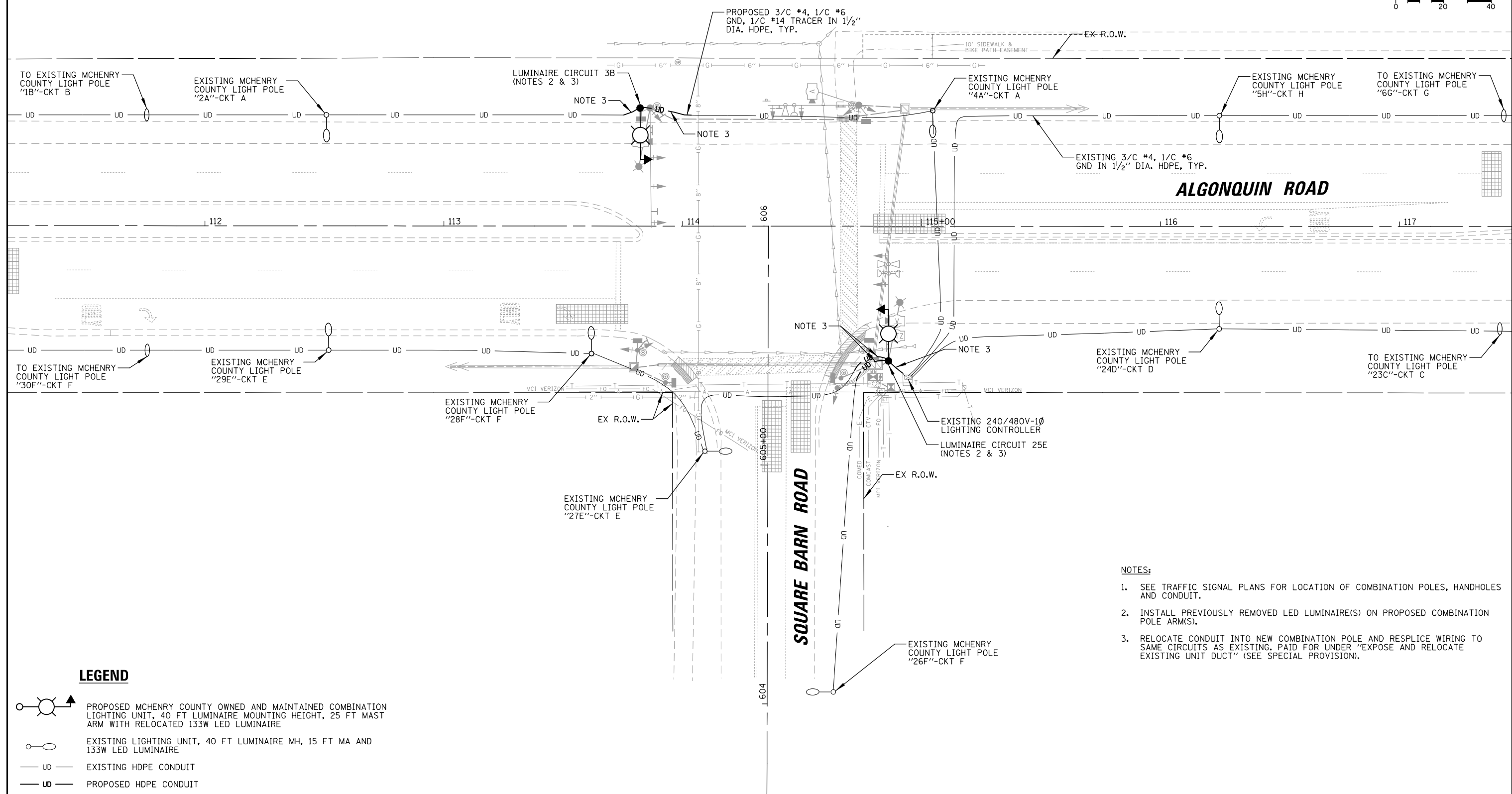
NOTES:

1. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBINATION POLES, HANDHOLES AND CONDUIT.
2. INSTALL PREVIOUSLY REMOVED LED LUMINAIRE(S) ON PROPOSED COMBINATION POLE ARM(S).
3. RELOCATE CONDUIT INTO NEW COMBINATION POLE AND RESPLICE WIRING TO SAME CIRCUITS AS EXISTING. PAID FOR UNDER "EXPOSE AND RELOCATE EXISTING UNIT DUCT" (SEE SPECIAL PROVISION).

FILE NAME = LGT.180176.02	USER NAME = pandrows	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN ALGONQUIN ROAD AT LAKEWOOD ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - RJJ	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	107
		CHECKED - AJD	REVISED -							CONTRACT NO. 61H50			
		DATE -	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



DATE	BY	DATE	BY
SURVEYED		SURVEYED	
ALIGNED		ALIGNED	
CHECKED		CHECKED	
RT. OF WAY CHECKED		RT. OF WAY CHECKED	
CADD FILE NAME		CADD FILE NAME	
PLAN		PLAN	
NOTE BOOK NO.		NOTE BOOK NO.	
ENGINEERING LTD.		ENGINEERING LTD.	
CHRISTOPHER B. BURKE		CHRISTOPHER B. BURKE	
3575 West Higgins Road, Suite 600		3575 West Higgins Road, Suite 600	
Rosemont, Illinois 60018		Rosemont, Illinois 60018	
(617) 923-5930		(617) 923-5930	
DATE		DATE	
BY		BY	
SURVEYED		SURVEYED	
GRADES CHECKED		GRADES CHECKED	
BLM. NOTED		BLM. NOTED	
STRUCTURE NOTATIONS OK'D		STRUCTURE NOTATIONS OK'D	
PROFILE		PROFILE	
NOTE BOOK NO.		NOTE BOOK NO.	



- NOTES:**
1. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBINATION POLES, HANDHOLES AND CONDUIT.
 2. INSTALL PREVIOUSLY REMOVED LED LUMINAIRE(S) ON PROPOSED COMBINATION POLE ARM(S).
 3. RELOCATE CONDUIT INTO NEW COMBINATION POLE AND RESPLICE WIRING TO SAME CIRCUITS AS EXISTING. PAID FOR UNDER "EXPOSE AND RELOCATE EXISTING UNIT DUCT" (SEE SPECIAL PROVISION).

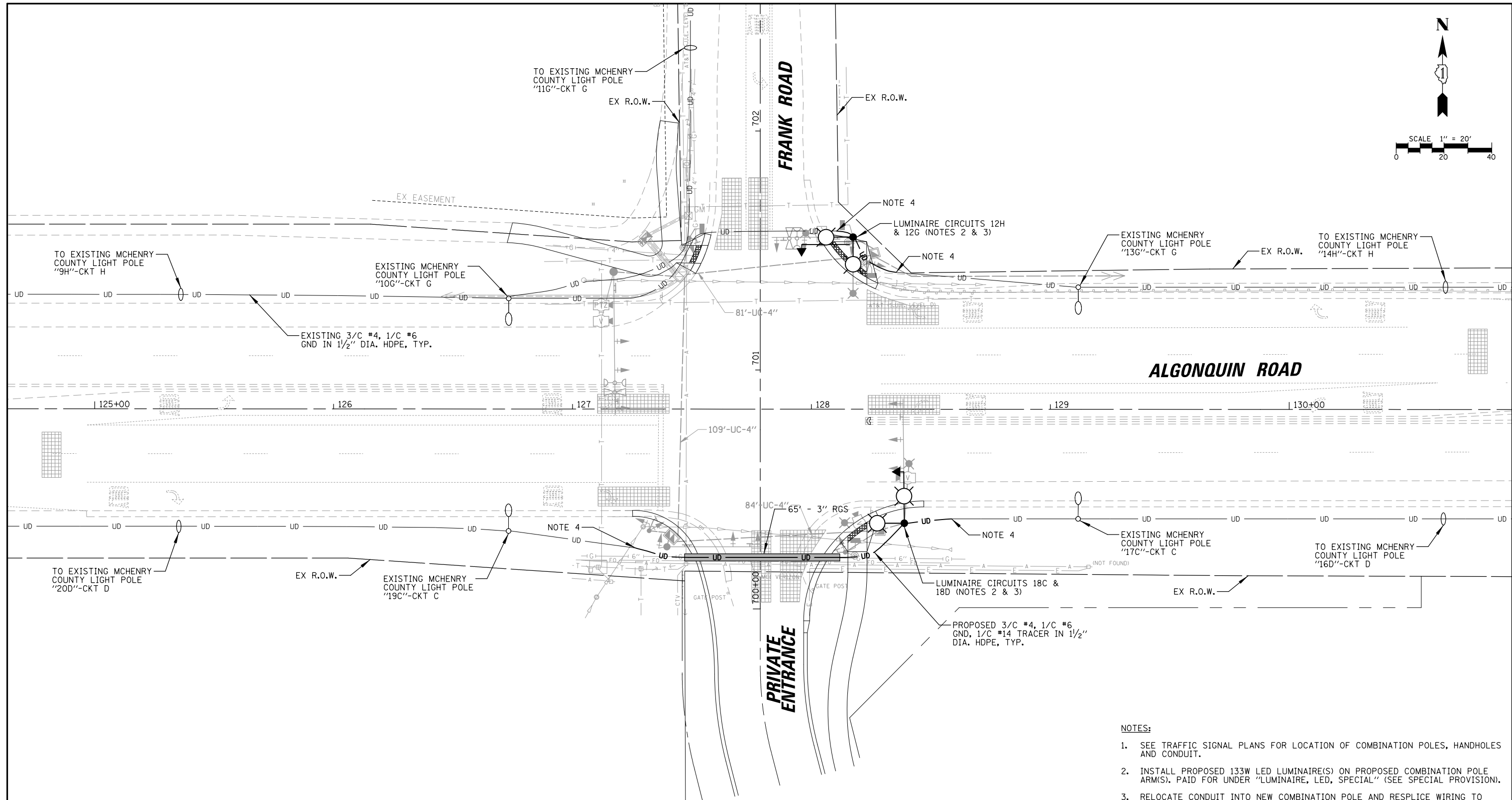
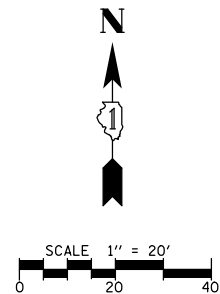
LEGEND

- PROPOSED MCHENRY COUNTY OWNED AND MAINTAINED COMBINATION LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 25 FT MAST ARM WITH RELOCATED 133W LED LUMINAIRE
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 133W LED LUMINAIRE
- EXISTING HDPE CONDUIT
- PROPOSED HDPE CONDUIT

FILE NAME =	USER NAME = pandrows	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN ALGONQUIN ROAD AT SQUARE BARN ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
LGT.180176.03		DRAWN - RJJ	REVISED -				18-00480-00-TL	MCHENRY	132	108	
		CHECKED - AJD	REVISED -			CONTRACT NO. 61H50					
		DATE -	REVISED -			SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED	CADD FILE NAME
DATE	BY	SURVEYED	GRADES CHECKED	BLM. NOTED	STRUCTURE	NOTATIONS

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 Rosemont, Illinois 60018
 (630) 923-5500

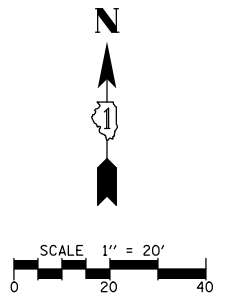


LEGEND

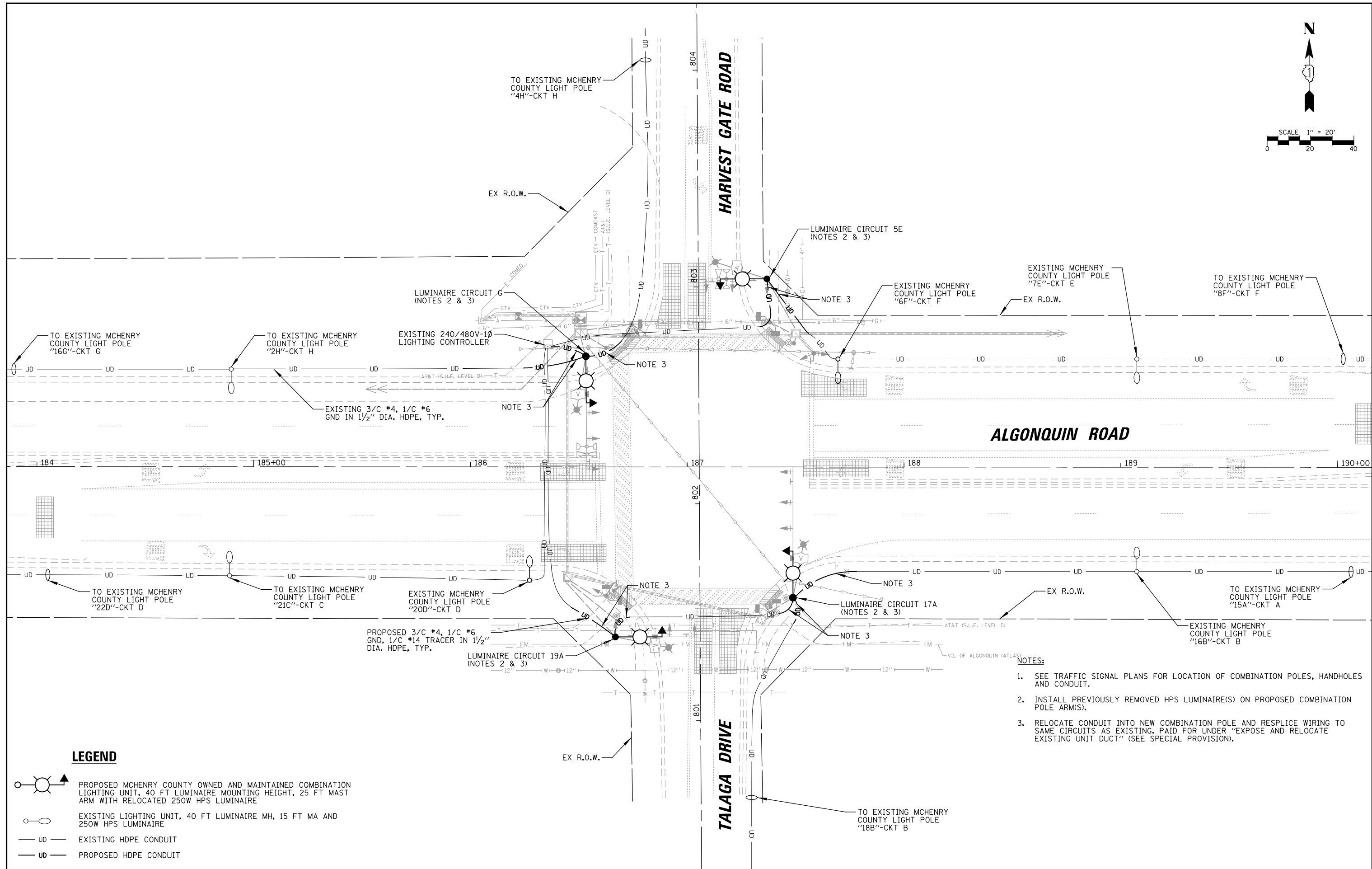
- PROPOSED MCHENRY COUNTY OWNED AND MAINTAINED COMBINATION LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 25 FT MAST ARM AND LED LUMINAIRE, 6 AMP FUSE & NEUTRAL SLUG
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 133W LED LUMINAIRE
- EXISTING HDPE CONDUIT
- PROPOSED HDPE CONDUIT
- PROPOSED RIGID GALVANIZED STEEL SLEEVE

- NOTES:**
- SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBINATION POLES, HANDHOLES AND CONDUIT.
 - INSTALL PROPOSED 133W LED LUMINAIRE(S) ON PROPOSED COMBINATION POLE ARM(S). PAID FOR UNDER "LUMINAIRE, LED, SPECIAL" (SEE SPECIAL PROVISION).
 - RELOCATE CONDUIT INTO NEW COMBINATION POLE AND RESPLICE WIRING TO SAME CIRCUITS AS EXISTING. PAID FOR UNDER "EXPOSE AND RELOCATE EXISTING UNIT DUCT" (SEE SPECIAL PROVISION).
 - DISCONNECT AND REMOVE EXISTING WIRING FROM POLE TO POLE CUT AND COUPLE CONDUITS TOGETHER WITH LISTED COUPLER, INSTALL NEW 3/C #4, 1/C #6 GND AND 1/C #14 TRACER XLP-TYPE USE CABLES FROM ADJACENT POLE/CONTROLLER SHALL BE INSTALLED AND RECONNECTED TO SAME CKTS AS EXISTING IN PROPOSED 1/2" HDPE CONDUIT. REMOVED WIRE PAID FOR UNDER "REMOVE EXISTING CABLE". COUPLING CONDUITS PAID FOR UNDER "CONDUIT SPLICE" (SEE SPECIAL PROVISION).

FILE NAME = LGT_180176_04	USER NAME = pandrews	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN ALGONQUIN ROAD AT FRANK ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - RJJ	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	109
		CHECKED - AJD	REVISED -							CONTRACT NO. 61H50			
		DATE -	REVISED -							FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED	ADD. FILE NAME
CHRISTOPHER B. BURKE ENGINEERING LTD. 9575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (647) 923-5500						
DATE	BY	SURVEYED	GRADES CHECKED	BLM. NOTED	STRUCTURE	NOTATIONS CWKO

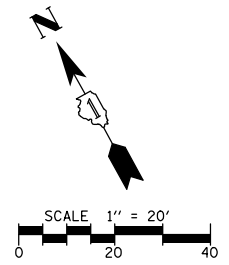


LEGEND

- PROPOSED MCHENRY COUNTY OWNED AND MAINTAINED COMBINATION LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 25 FT MAST ARM WITH RELOCATED 250W HPS LUMINAIRE
- EXISTING LIGHTING UNIT, 40 FT LUMINAIRE MH, 15 FT MA AND 250W HPS LUMINAIRE
- EXISTING HDPE CONDUIT
- PROPOSED HDPE CONDUIT

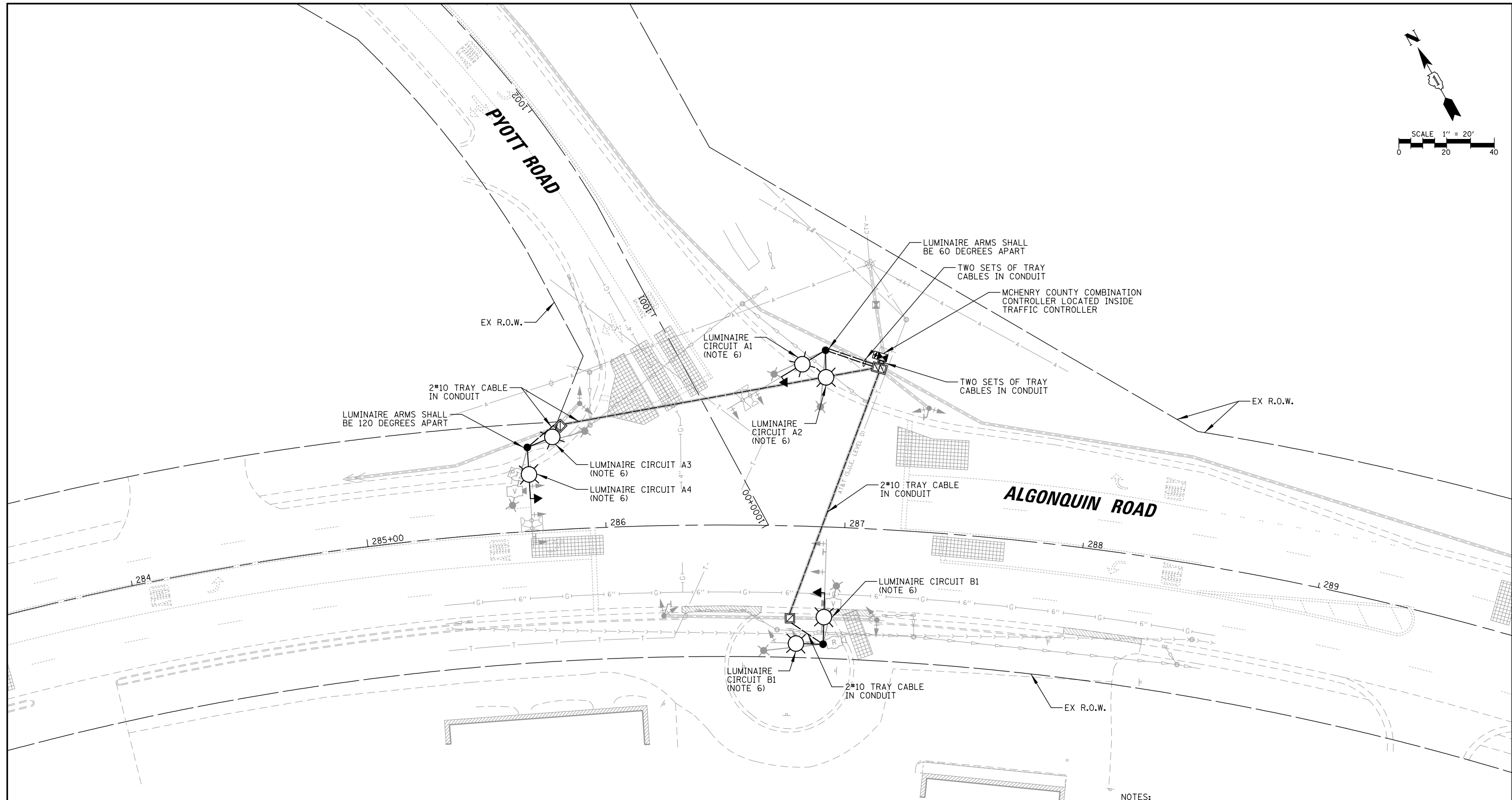
- NOTES:**
- SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBINATION POLES, HANDHOLES AND CONDUIT.
 - INSTALL PREVIOUSLY REMOVED HPS LUMINAIRE(S) ON PROPOSED COMBINATION POLE ARMS.
 - RELOCATE CONDUIT INTO NEW COMBINATION POLE AND RESPLICE WIRING TO SAME CIRCUITS AS EXISTING. PAID FOR UNDER "EXPOSE AND RELOCATE EXISTING UNIT DUCT" (SEE SPECIAL PROVISION).

FILE NAME = LGT.180176.05	USER NAME = pandrows	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN ALGONQUIN ROAD AT HARVEST GATE ROAD / TALAGA DRIVE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 48"	CHECKED - AJD	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	110
	PLOT DATE = 1/12/2022	DATE -	REVISED -		CONTRACT NO. 61H50								
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT													



DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE

FILE NAME	USER NAME	DESIGNED	REVISED
LGT_180176_07	pandrows	AJD	-
		RJJ	-
		AJD	-
		-	-



LEGEND

- PROPOSED MCHENRY COUNTY OWNED AND MAINTAINED COMBINATION LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 25 FT MAST ARM AND LED LUMINAIRE, 6 AMP FUSE & NEUTRAL SLUG
- PROPOSED COMBO LIGHTING CABLE IN CONDUIT, ELECTRICAL CABLE ASSEMBLY TYPE TC, 2*10 ROUTED THROUGH TRAFFIC CONDUIT (SEE TRAFFIC PLANS FOR CONDUIT SIZE AND CONDUIT ROUTE AND NOTE 5 THIS SHEET)

NOTES:

1. COMBINATION POLE LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER. SEE TRAFFIC SIGNAL PLANS.
2. THE COMBINATION LIGHTING CABLE AND TRAFFIC SIGNAL CABLES WILL BE IN A SHARED CONDUIT.
3. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBINATION POLES, HANDHOLES AND CONDUIT.
4. SPLICING IS NOT ALLOWED IN BELOW GRADE HANDHOLES.
5. COMBO LIGHTING CABLE SHALL BE PAID FOR UNDER "CABLE, SPECIAL" (SEE SPECIAL PROVISION).
6. PROPOSED LUMINAIRE SHALL BE PAID FOR UNDER "LUMINAIRE INSTALLATION, TYPE 4" (SEE SPECIAL PROVISION). DUAL COMBINATION LUMINAIRES SHALL BE 90 DEGREES APART UNLESS OTHERWISE NOTED.

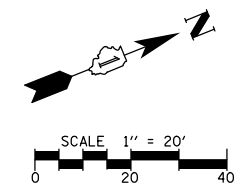
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
ALGONQUIN ROAD AT PYOTT ROAD**

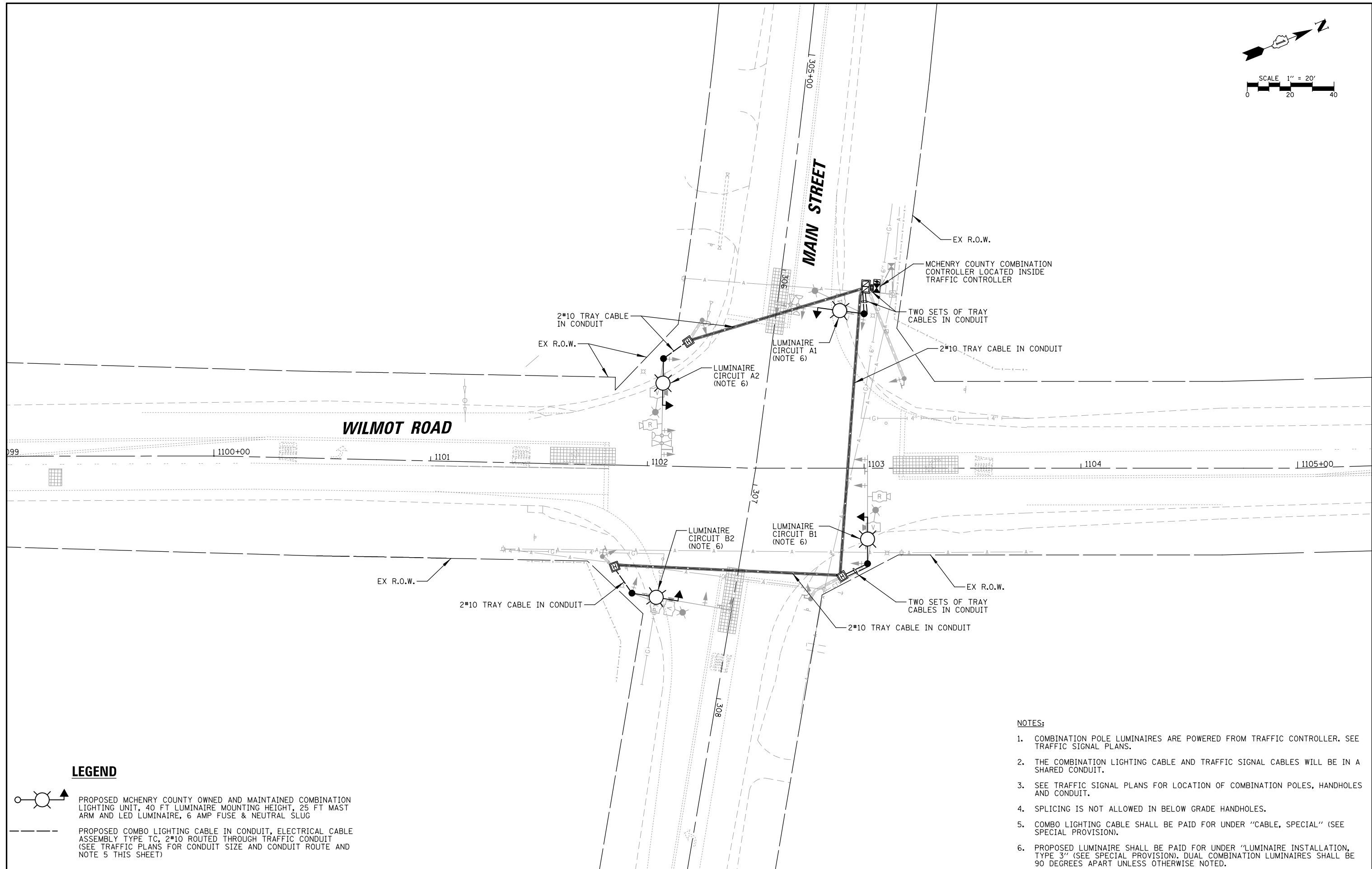
SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	112
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 61H50



DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
CHRISTOPHER B. BURKE ENGINEERING LTD. 3575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (647) 923-5938					
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE



LEGEND

- PROPOSED MCHENRY COUNTY OWNED AND MAINTAINED COMBINATION LIGHTING UNIT, 40 FT LUMINAIRE MOUNTING HEIGHT, 25 FT MAST ARM AND LED LUMINAIRE, 6 AMP FUSE & NEUTRAL SLUG
- PROPOSED COMBO LIGHTING CABLE IN CONDUIT, ELECTRICAL CABLE ASSEMBLY TYPE TC, 2*10 ROUTED THROUGH TRAFFIC CONDUIT (SEE TRAFFIC PLANS FOR CONDUIT SIZE AND CONDUIT ROUTE AND NOTE 5 THIS SHEET)

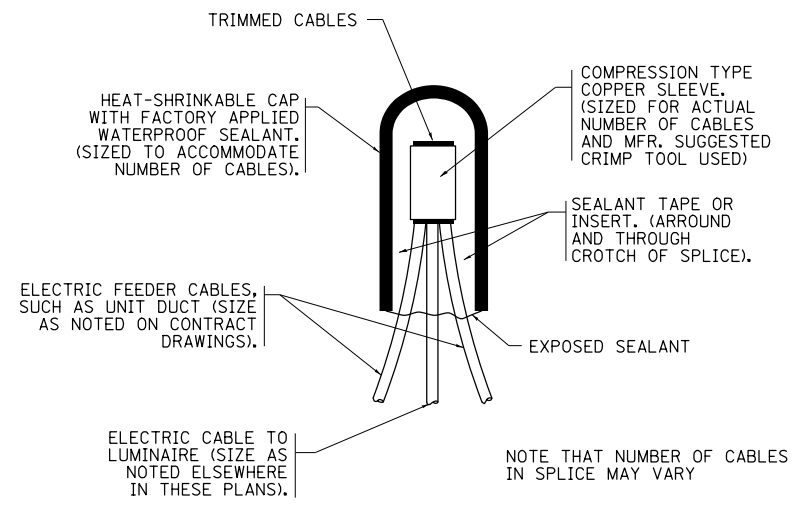
NOTES:

1. COMBINATION POLE LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER. SEE TRAFFIC SIGNAL PLANS.
2. THE COMBINATION LIGHTING CABLE AND TRAFFIC SIGNAL CABLES WILL BE IN A SHARED CONDUIT.
3. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBINATION POLES, HANDHOLES AND CONDUIT.
4. SPLICING IS NOT ALLOWED IN BELOW GRADE HANDHOLES.
5. COMBO LIGHTING CABLE SHALL BE PAID FOR UNDER "CABLE, SPECIAL" (SEE SPECIAL PROVISION).
6. PROPOSED LUMINAIRE SHALL BE PAID FOR UNDER "LUMINAIRE INSTALLATION, TYPE 3" (SEE SPECIAL PROVISION). DUAL COMBINATION LUMINAIRES SHALL BE 90 DEGREES APART UNLESS OTHERWISE NOTED.

FILE NAME = LGT_180176_08	USER NAME = pandrows	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN MAIN STREET AT WILMOT ROAD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RJJ	REVISED -		SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	113
		CHECKED - AJD	REVISED -						CONTRACT NO. 61H50				
		PLOT DATE = 1/12/2022	DATE -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

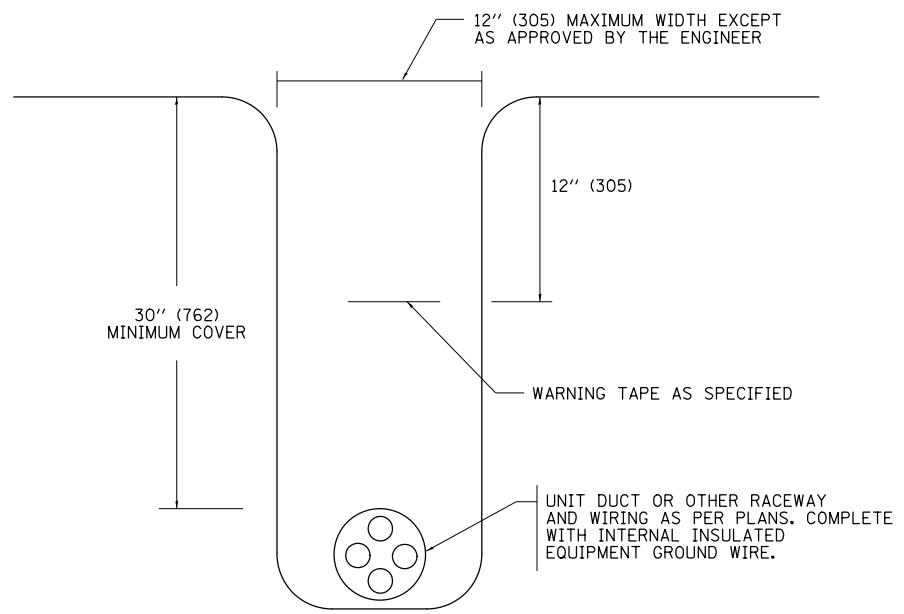
DATE _____ BY _____
 SURVEYED _____ ALIGNED _____ CHECKED _____
 RT. OF WAY CHECKED _____
 PLOT DATE _____
 FILE NO. _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATIONS OKWD

ENGINEERING LTD.
CHRISTOPHER B. BURKE
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 Rosemont, Illinois 60018
 (617) 923-5930



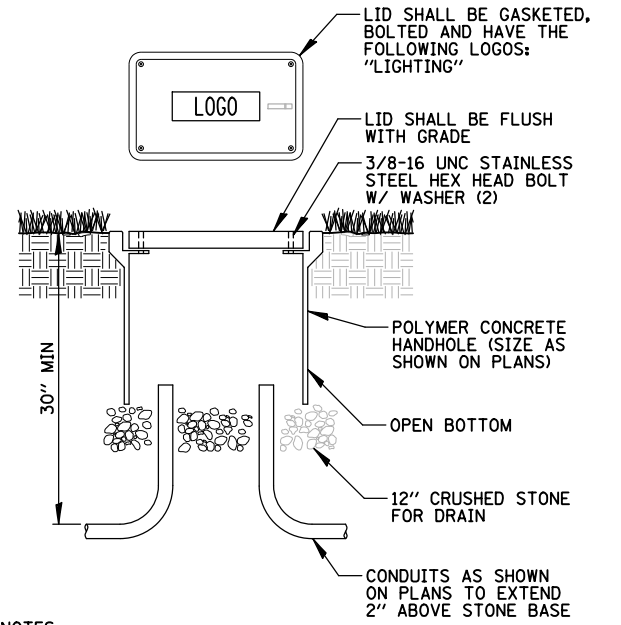
TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

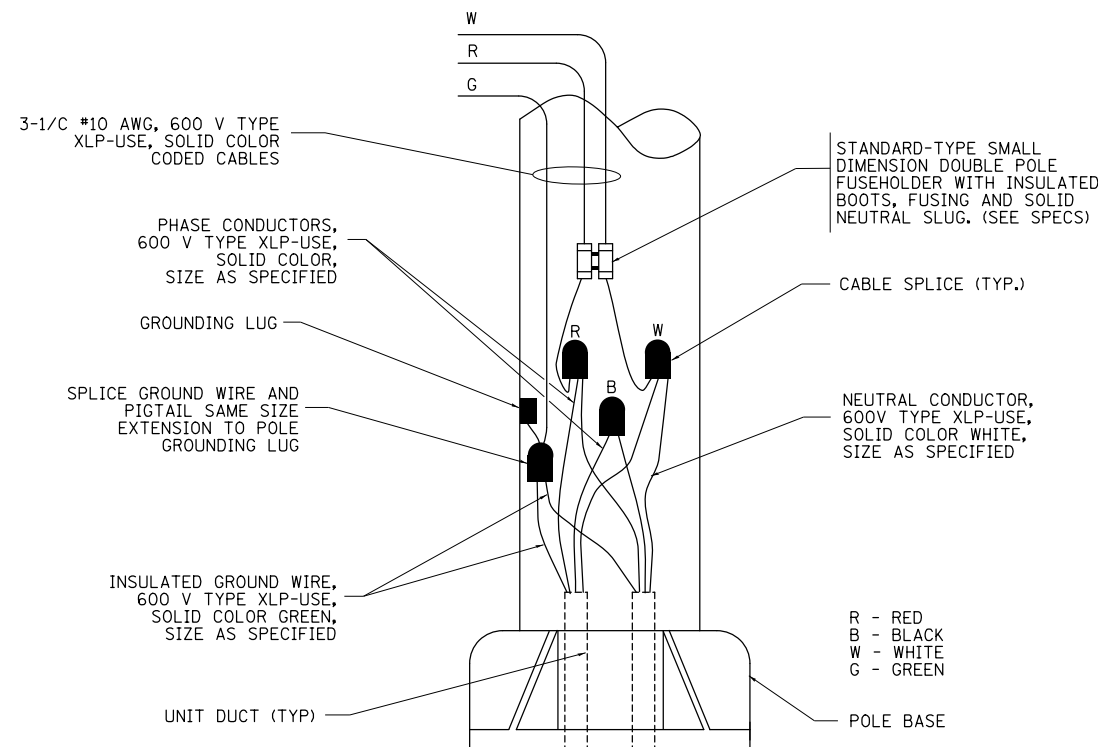
N.T.S.



NOTES:

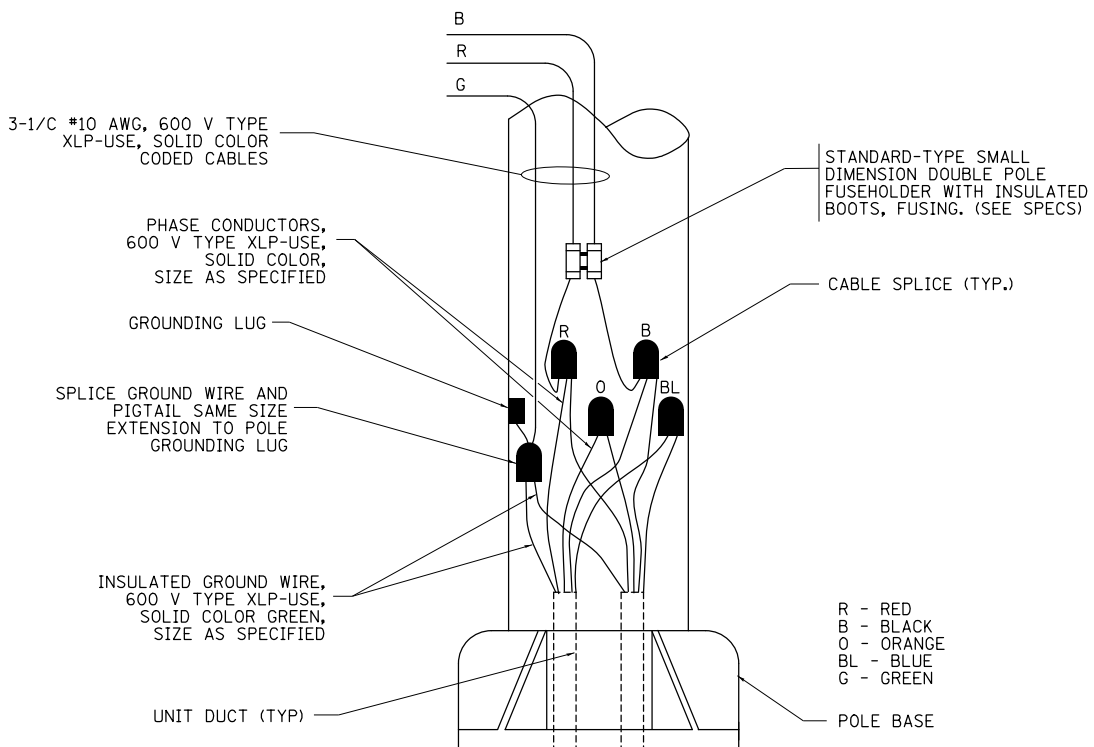
1. NO SPLICING ALLOWED IN HANDHOLE.
2. POLYMER CONCRETE HANDHOLE AND LID SHALL BE GREY.
3. BOX & LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS, AND BE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SC77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPHS 5.2.3 AND 5.2.4 OF WESTERN UNDERGROUND COMMITTEE GUIDE 3.6.

N.T.S.



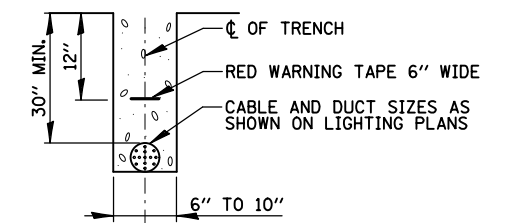
POLE WIRING DETAIL FOR ALL INTERSECTIONS EXCEPT ALGONQUIN RD /HALIGUS RD

N.T.S.

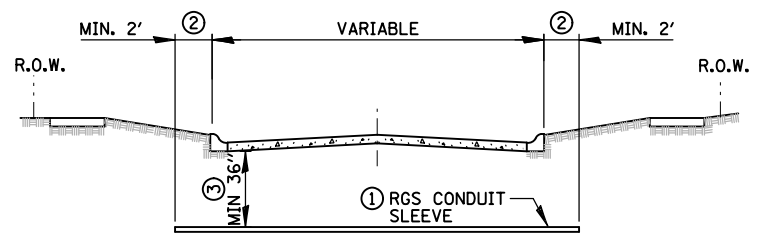


POLE WIRING DETAIL FOR INTERSECTION OF ALGONQUIN RD /HALIGUS RD

N.T.S.



TRENCH CROSS SECTION



ROADWAY CROSSING

- ① SLEEVE SHALL BE HEAVY WALL RIGID GALVANIZED STEEL (RGS) CONDUIT.
- ② SLEEVE SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- ③ SLEEVE SHALL BE A MINIMUM OF 36" BELOW ROADWAY OR CURB BOTTOM.

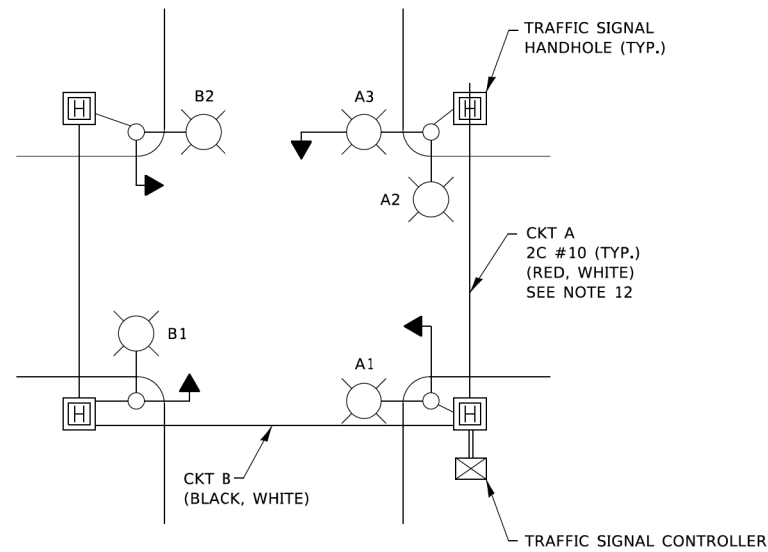
ELECTRIC CONDUIT INSTALLATION

N.T.S.

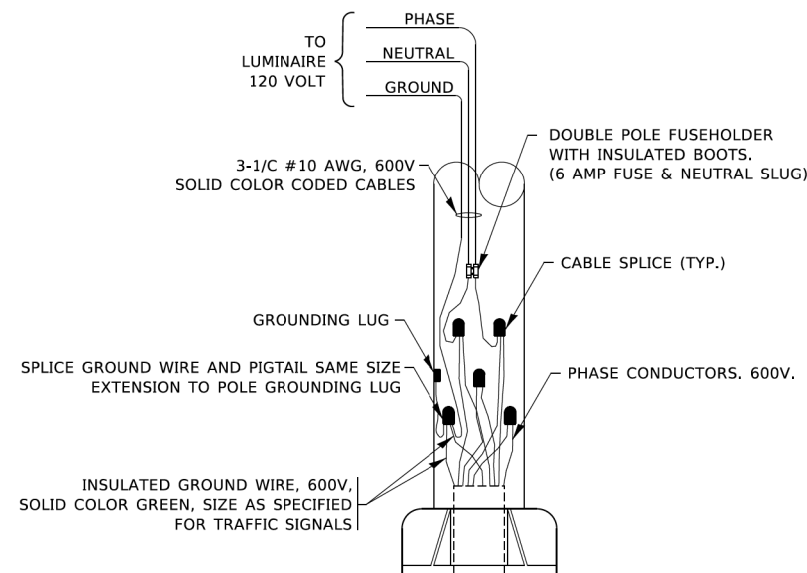
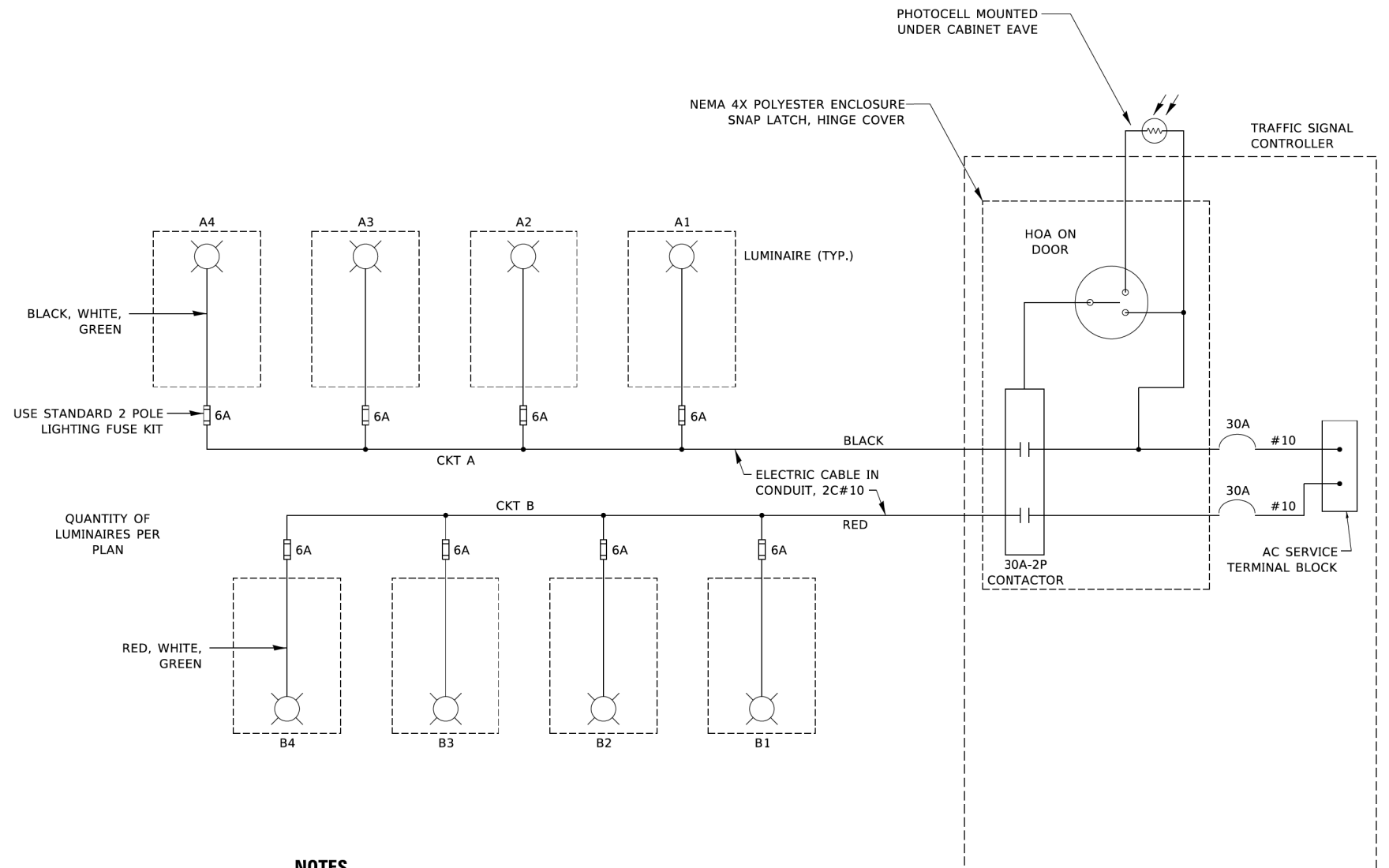
FILE NAME = LDT_180176_01	USER NAME = pandrows	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - RJJ	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	114
		CHECKED - AJD	REVISED -		CONTRACT NO. 61H50								
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED	ADD. FILE NAME
DATE	BY	PROFILE	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS	CHK'D

ENGINEERING LTD.
CHRISTOPHER B. BURKE
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5939



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

NOTES

- 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
- TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
- ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
- ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
- FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
- ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
- THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
- LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
- COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
- LUMINAIRE VOLTAGE SHALL BE 120V
- POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
- THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.

IDOT STANDARD BE-240
 (REVISED 8/3/2021)
 (USE FOR INTERSECTIONS OF ALGONQUIN/HILLTOP,
 ALGONQUIN/PYOTT AND WILMOT/MAIN)

FILE NAME = LDT_180176_02	USER NAME = pandrews	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RJJ	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	115
		CHECKED - AJD	REVISED -							CONTRACT NO. 61H50			
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 RT. OF WAY CHECKED: _____
 PLOT FILE NAME: _____

PLAN
 NOTE BOOK NO. _____

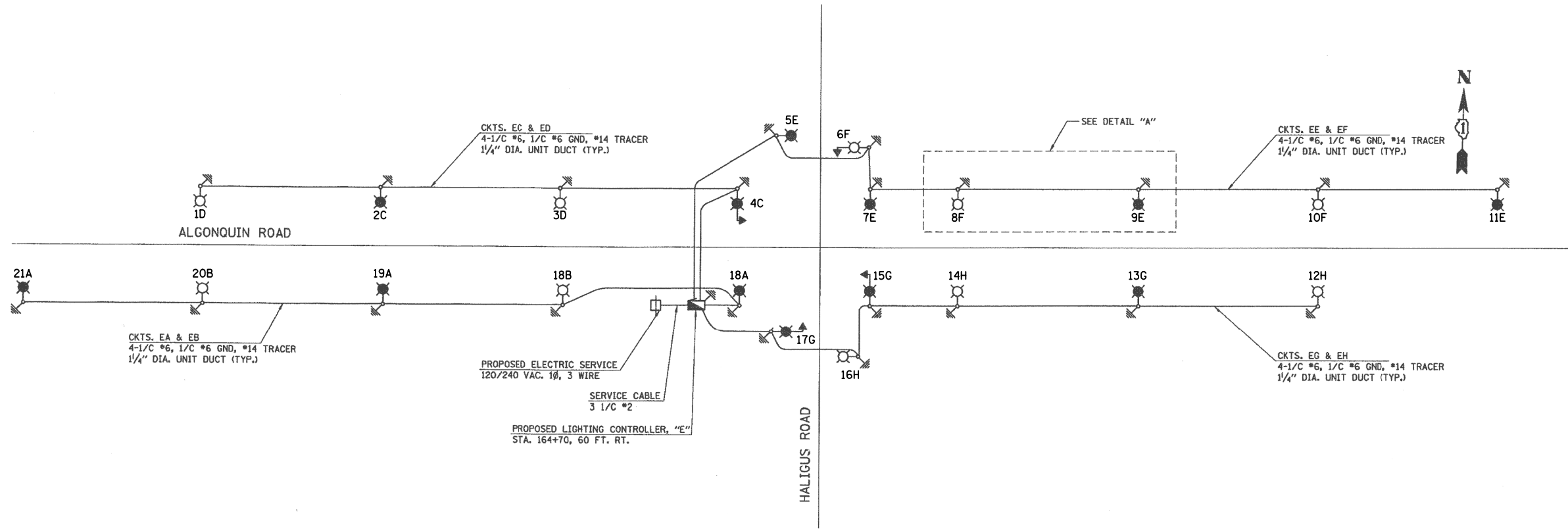
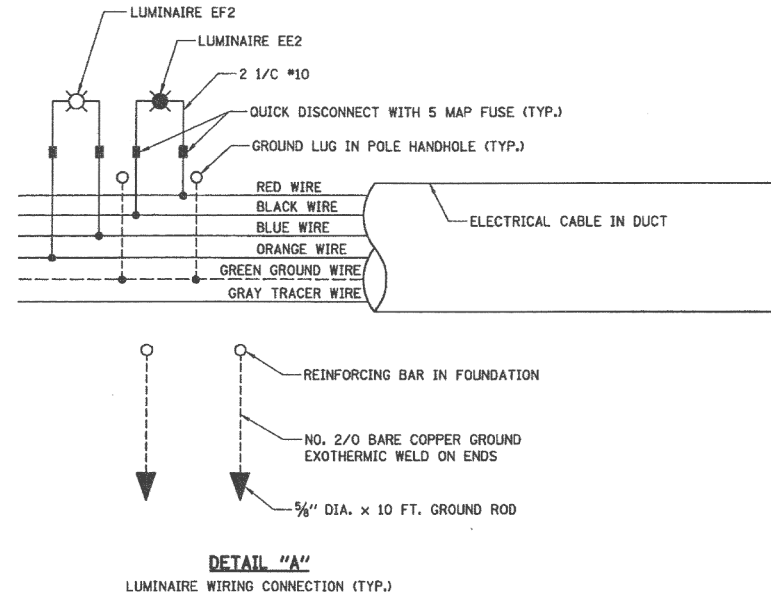
ENGINEERING LTD.
CHRISTOPHER B. BURKE
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5930

DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 E.M. NOTED: _____
 STRUCTURE NOTATIONS OK'D

PROFILE
 NOTE BOOK NO. _____

LOAD TABLE PROPOSED LIGHTING CONTROLLER			
CIRCUIT	# OF POLES	AMPS	WATTS
A	3	1.7	399
B	2	1.1	266
C	2	1.1	266
D	2	1.1	266
E	4	2.2	532
F	3	1.7	399
G	3	1.7	399
H	3	1.7	399
TOTAL	22	12.2	2,926

- LEGEND**
- LIGHTING CONTROLLER
 - LIGHT POLE, 40.0 FT MH, 15 FT MA, 133W, 240V LED (RED/BLACK PHASE)
 - LIGHT POLE, 40.0 FT MH, 15 FT MA, 133W, 240V LED (BLUE/ORANGE PHASE)
 - COMBINATION LIGHT POLE, 40 FT MH, 15 FT MA, 133W, 240V LED (RED/BLACK PHASE)
 - COMBINATION LIGHT POLE, 40 FT MH, 15 FT MA, 133W, 240V LED (BLUE/ORANGE PHASE)
 - ELECTRIC GROUND ROD
 - ELECTRIC UTILITY POLE

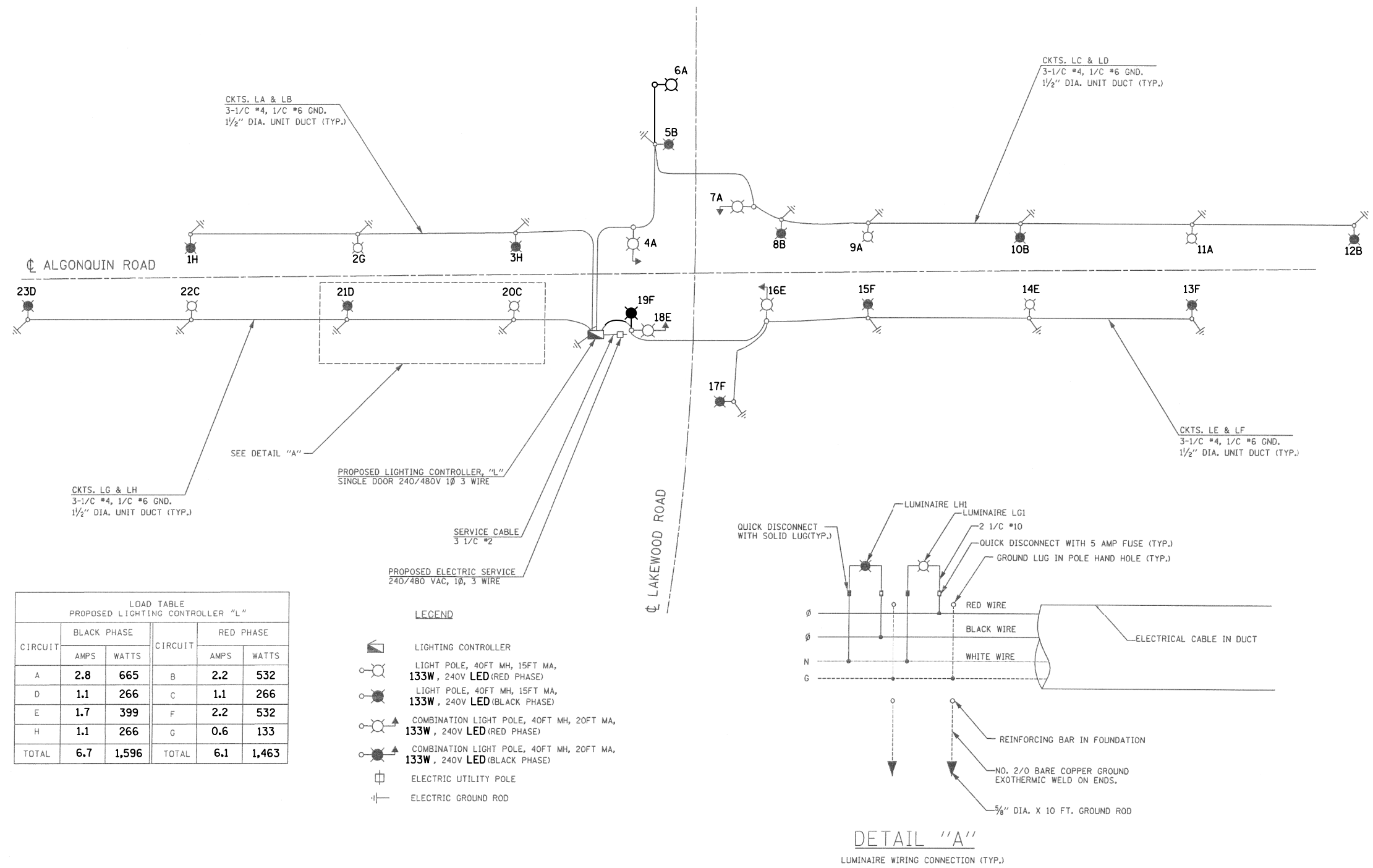


ALGONQUIN RD AT HALIGUS RD ONE-LINE DIAGRAM

FILE NAME = LDT_180176_03	USER NAME = pandrews	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - RJJ	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	18-00480-00-TL	MCHENRY	132	116
		CHECKED - AJD	REVISED -							CONTRACT NO. 61H50			
		DATE -	REVISED -							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

SURVEYED _____
 ALIGNED _____
 CHECKED _____
 RT. OF WAY CHECKED _____
 DATE FILE NAME _____
 BY _____
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 GRADES CHECKED _____
 E.M. NOTED _____
 STRUCTURE NOTATIONS OKWD _____
 BY _____
 DATE _____
 SURVEYED _____
 GRADES CHECKED _____
 E.M. NOTED _____
 STRUCTURE NOTATIONS OKWD _____
 BY _____
 DATE _____

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 ENGINEERING LTD.
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 Rosemont, Illinois 60018
 (647) 923-5500



LOAD TABLE PROPOSED LIGHTING CONTROLLER "L"					
CIRCUIT	BLACK PHASE		CIRCUIT	RED PHASE	
	AMPS	WATTS		AMPS	WATTS
A	2.8	665	B	2.2	532
D	1.1	266	C	1.1	266
E	1.7	399	F	2.2	532
H	1.1	266	G	0.6	133
TOTAL	6.7	1,596	TOTAL	6.1	1,463

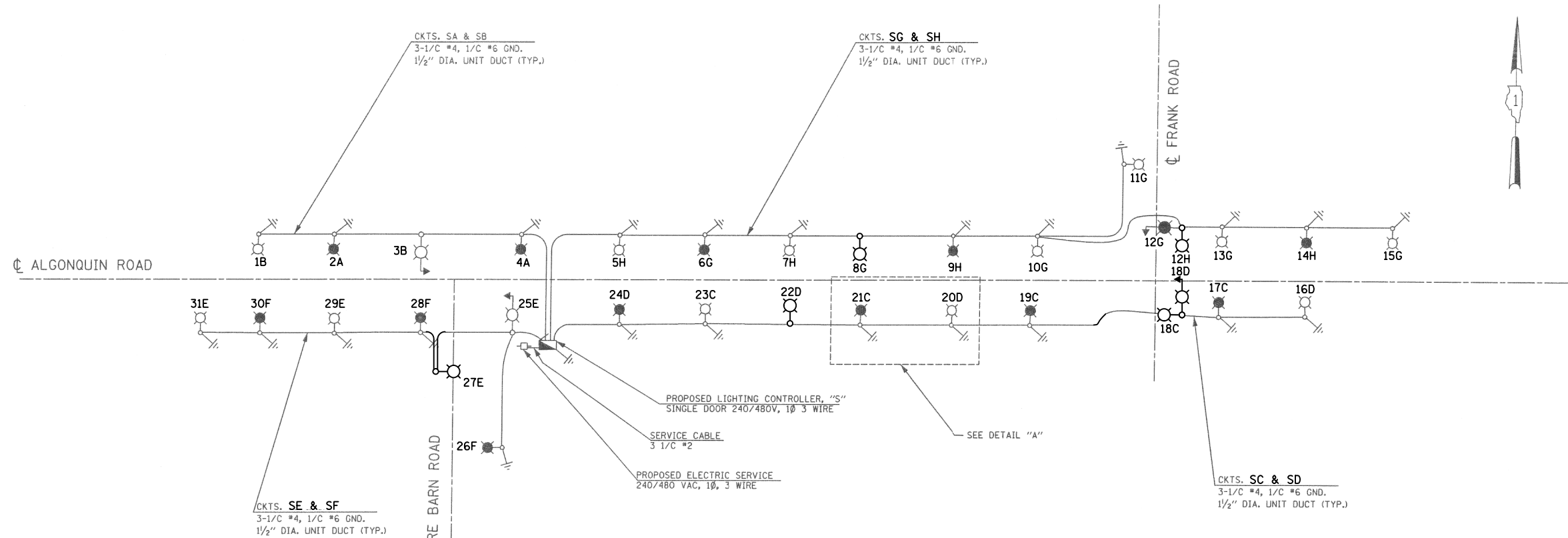
- LEGEND**
- LIGHTING CONTROLLER
 - LIGHT POLE, 40FT MH, 15FT MA, 133W, 240V LED (RED PHASE)
 - LIGHT POLE, 40FT MH, 15FT MA, 133W, 240V LED (BLACK PHASE)
 - COMBINATION LIGHT POLE, 40FT MH, 20FT MA, 133W, 240V LED (RED PHASE)
 - COMBINATION LIGHT POLE, 40FT MH, 20FT MA, 133W, 240V LED (BLACK PHASE)
 - ELECTRIC UTILITY POLE
 - ELECTRIC GROUND ROD

ALGONQUIN RD AT LAKEWOOD RD ONE-LINE DIAGRAM

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE

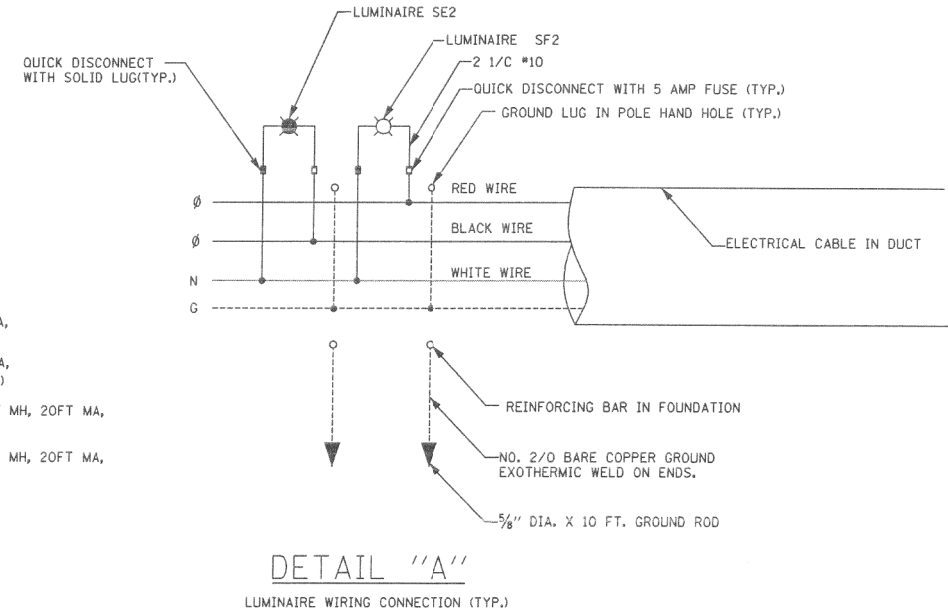
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (647) 923-5500

DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____ DATE: _____
 FILE NAME: _____ USER NAME: _____
 DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____ DATE: _____



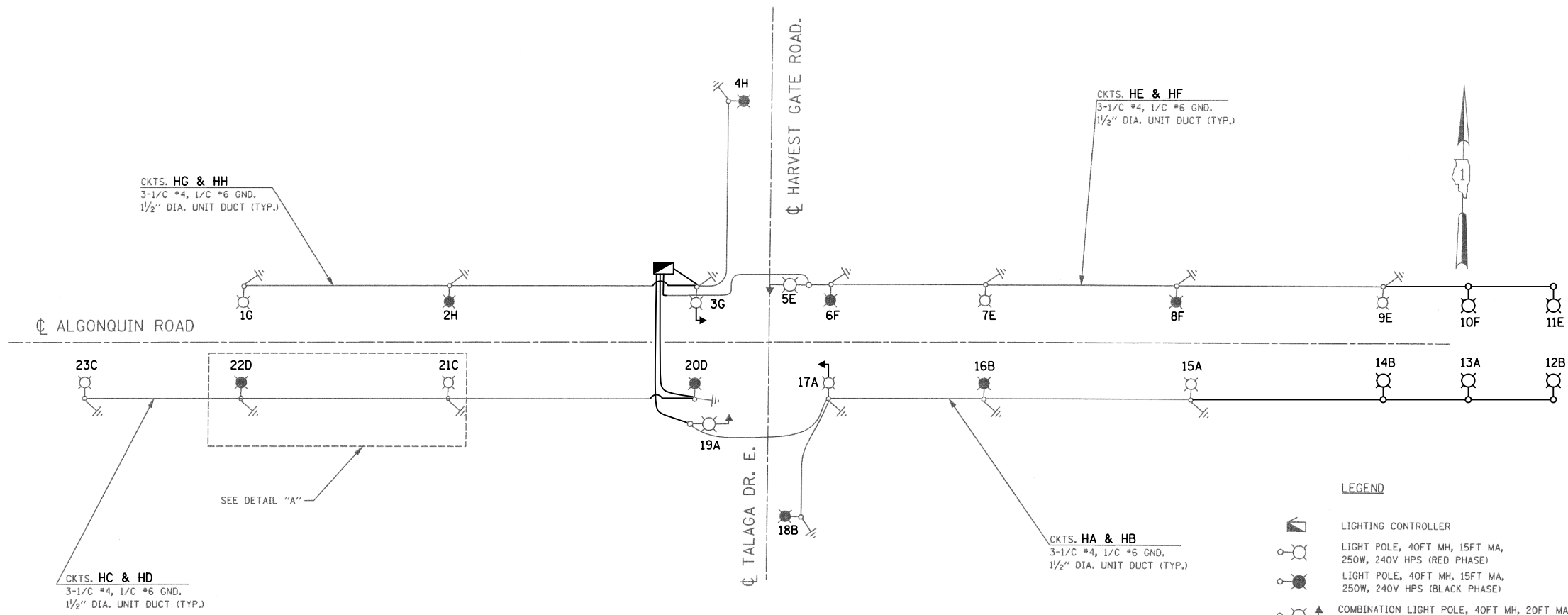
CIRCUIT	BLACK PHASE		RED PHASE	
	AMPS	WATTS	AMPS	WATTS
A	1.1	266	1.1	266
D	2.8	665	2.8	665
E	2.2	532	1.7	399
H	2.8	665	3.9	931
TOTAL	8.9	2,128	9.4	2,261

- LEGEND**
- LIGHTING CONTROLLER
 - LIGHT POLE, 40FT MH, 15FT MA, 133W, 240V LED (RED PHASE)
 - LIGHT POLE, 40FT MH, 15FT MA, 133W, 240V LED (BLACK PHASE)
 - COMBINATION LIGHT POLE, 40FT MH, 20FT MA, 133W, 240V LED (RED PHASE)
 - COMBINATION LIGHT POLE, 40FT MH, 20FT MA, 133W, 240V LED (BLACK PHASE)
 - ELECTRIC UTILITY POLE
 - ELECTRIC GROUND ROD



ALGONQUIN RD AT SQUARE BARN RD AND AT FRANK RD ONE-LINE DIAGRAM

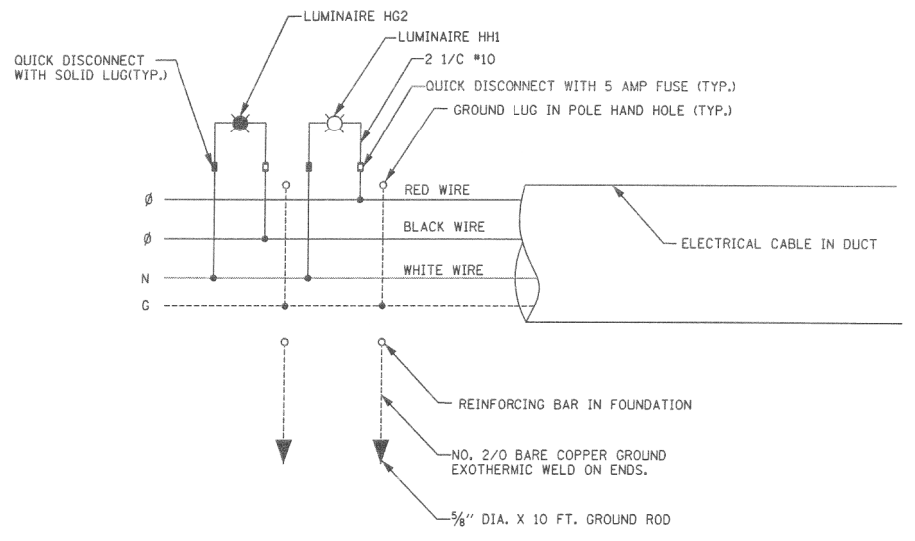
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
CHRISTOPHER B. BURKE ENGINEERING LTD. 8575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (647) 923-5500					
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
CB					
DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE



- LEGEND**
- LIGHTING CONTROLLER
 - LIGHT POLE, 40FT MH, 15FT MA, 250W, 240V HPS (RED PHASE)
 - LIGHT POLE, 40FT MH, 15FT MA, 250W, 240V HPS (BLACK PHASE)
 - COMBINATION LIGHT POLE, 40FT MH, 20FT MA, 250W, 240V HPS (RED PHASE)
 - COMBINATION LIGHT POLE, 40FT MH, 20FT MA, 250W, 240V HPS (BLACK PHASE)
 - ELECTRIC UTILITY POLE
 - ELECTRIC GROUND ROD

LOAD TABLE
PROPOSED LIGHTING CONTROLLER "H"

CIRCUIT	BLACK PHASE		CIRCUIT	RED PHASE	
	AMPS	WATTS		AMPS	WATTS
B	5.2	1248	A	5.2	1248
D	2.6	624	C	2.6	624
F	3.9	936	E	5.2	1248
G	2.6	624	H	2.6	624
TOTAL	14.3	3432	TOTAL	15.6	3744

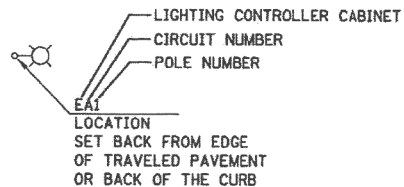


DETAIL "A"
LUMINAIRE WIRING CONNECTION (TYP.)

ALGONQUIN RD AT HARVEST GATE RD / TALAGA RD ONE-LINE DIAGRAM

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	00-00257-05-WR	MCHENRY	156	96
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

- LEGEND**
- LIGHTING CONTROLLER
 - LIGHT POLE, 40.0 FT MH, 15 FT MA, 250W, 240V HPS
 - COMBINATION LIGHT POLE, 40 FT MH, 15 FT MA, 250 W, 240V HPS
 - ELECTRIC GROUND ROD
 - ELECTRIC UTILITY POLE
 - EXISTING LIGHTING - 250 WATT HPS, 30' M.H. WITH 2' M.A.



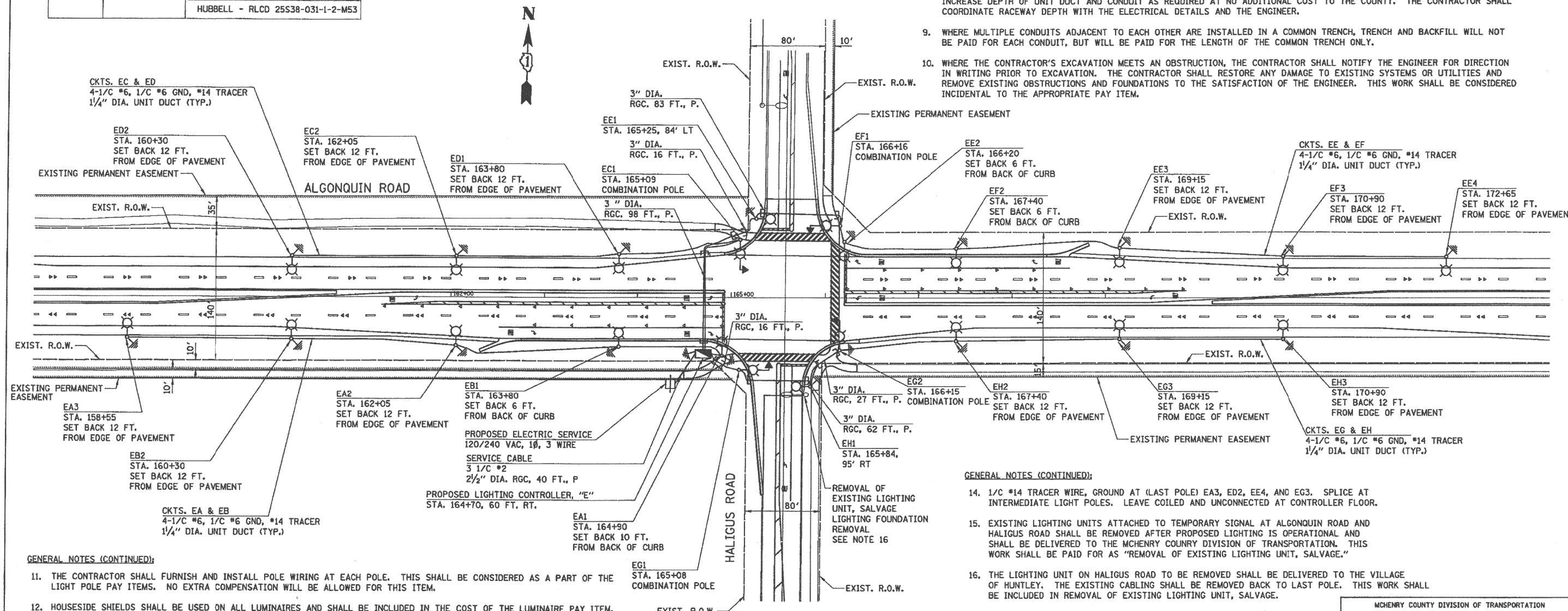
LUMINAIRE TABLE

WATTAGE	PHOTOMETRIC	LUMINAIRE MODEL NO.
250 W	MC III	GE - MDCL 25S0A12FMC32 HUBBELL - RLCD 25S38-031-1-2-M53

FOR INFORMATION ONLY

GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
- ALL NEW CONDUITS, UNIT DUCTS, DIRECT BURIAL CABLES, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MCHENRY COUNTY DIVISION OF TRANSPORTATION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL CONDITIONS.
- THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT THE REDUCED SIZE PLANS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
- CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE COUNTY. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- WHERE MULTIPLE CONDUITS ADJACENT TO EACH OTHER ARE INSTALLED IN A COMMON TRENCH, TRENCH AND BACKFILL WILL NOT BE PAID FOR EACH CONDUIT, BUT WILL BE PAID FOR THE LENGTH OF THE COMMON TRENCH ONLY.
- WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.



GENERAL NOTES (CONTINUED):

- THE CONTRACTOR SHALL FURNISH AND INSTALL POLE WIRING AT EACH POLE. THIS SHALL BE CONSIDERED AS A PART OF THE LIGHT POLE PAY ITEMS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR THIS ITEM.
- HOUSESIDE SHIELDS SHALL BE USED ON ALL LUMINAIRES AND SHALL BE INCLUDED IN THE COST OF THE LUMINAIRE PAY ITEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE HOUSESIDE SHIELD SHALL BE BLACK FINISH (NON-GLARE FINISH), MODEL NO: ELSHS-M4R AS MANUFACTURED BY GE OR APPROVED EQUAL.
- THE CONTRACTOR SHALL MARK AND STAKE EACH LIGHT POLE LOCATION AND UNIT DUCT PATH AND SHALL OBTAIN APPROVAL OF THE ENGINEER, COORDINATED WITH THE MCHENRY COUNTY DIVISION OF TRANSPORTATION, BEFORE FOUNDATION AND CABLE CONSTRUCTION BEGINS. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR PROPER CONSTRUCTION, INCLUDING HEIGHT, BUT FAILURE TO GAIN THE APPROVAL LEAVES FOUNDATION AND CABLE WORK SUBJECT TO RELOCATION AT THE CONTRACTOR'S EXPENSE.

GENERAL NOTES (CONTINUED):

- 1/4" #14 TRACER WIRE, GROUND AT (LAST POLE) EA3, ED2, EE4, AND EG3. SPLICE AT INTERMEDIATE LIGHT POLES. LEAVE COILED AND UNCONNECTED AT CONTROLLER FLOOR.
- EXISTING LIGHTING UNITS ATTACHED TO TEMPORARY SIGNAL AT ALGONQUIN ROAD AND HALIGUS ROAD SHALL BE REMOVED AFTER PROPOSED LIGHTING IS OPERATIONAL AND SHALL BE DELIVERED TO THE MCHENRY COUNTY DIVISION OF TRANSPORTATION. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE."
- THE LIGHTING UNIT ON HALIGUS ROAD TO BE REMOVED SHALL BE DELIVERED TO THE VILLAGE OF HUNTLEY. THE EXISTING CABLING SHALL BE REMOVED BACK TO LAST POLE. THIS WORK SHALL BE INCLUDED IN REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE.

MCHENRY COUNTY DIVISION OF TRANSPORTATION

ALGONQUIN ROAD AT HALIGUS ROAD
PROPOSED LIGHTING PLAN

CIVILTECH
400 E. DEVON AVE., SUITE 300 - RASCAL, ILLINOIS 60143
TEL: 630.773.3900 - FAX: 630.773.3978
WWW.CIVILTECHINC.COM

SCALE: 1" = 50'
DATE: FEB. 20, 2008

DESIGNED BY: SJC
CHECKED BY: DMH

DATE	BY	DATE	BY
SURVEYED		SURVEYED	
ALIGNED		ALIGNED	
CHECKED		CHECKED	
RT. OF WAY CHECKED		RT. OF WAY CHECKED	
ADD. FILE NAME		ADD. FILE NAME	
PLANNING		PLANNING	
NOTE BOOK		NOTE BOOK	
NO.		NO.	
DATE		DATE	
BY		BY	
SURVEYED		SURVEYED	
GRADES CHECKED		GRADES CHECKED	
E.M. NOTED		E.M. NOTED	
STRUCTURE NOTATIONS OK'D		STRUCTURE NOTATIONS OK'D	

CHRISTOPHER B. BURKE
ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(617) 622-5500

FILE NAME = REC.180176_01

USER NAME = pandrews
PLOT SCALE = N.T.S.
PLOT DATE = 1/12/2022

DESIGNED - AJD	REVISED -
DRAWN - RJJ	REVISED -
CHECKED - AJD	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

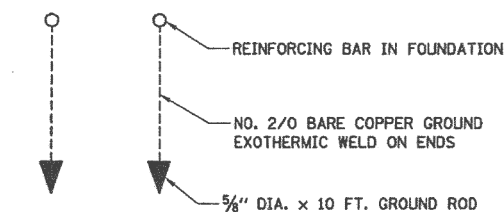
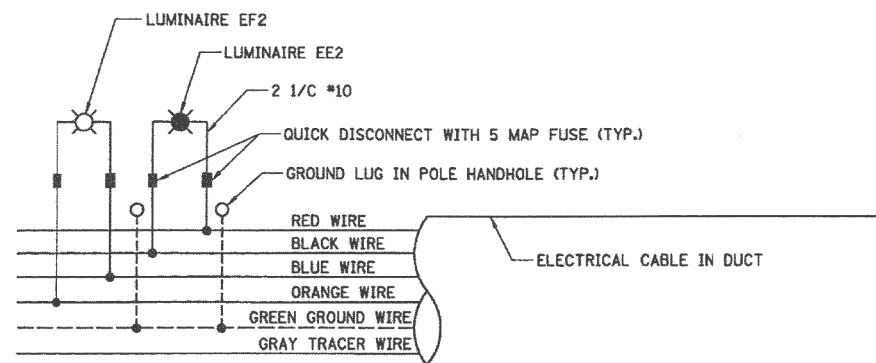
RECORD DRAWINGS
ALGONQUIN ROAD AT HALIGUS ROAD
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	120
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 61H50				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	00-00257-05-WR	MCHENRY	156	97
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

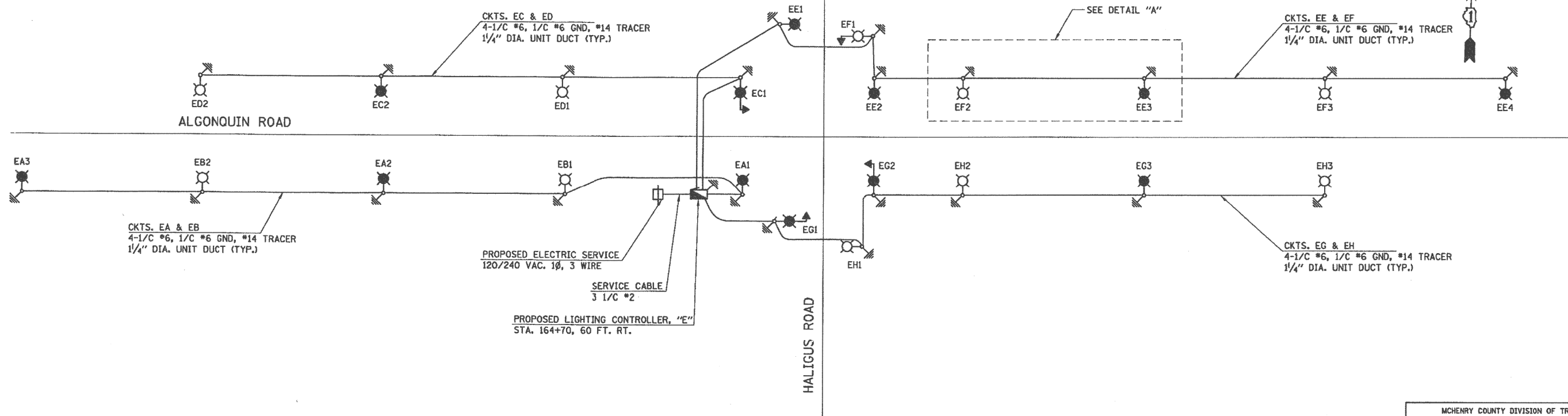
LOAD TABLE PROPOSED LIGHTING CONTROLLER			
CIRCUIT	* OF POLES	AMPS	WATTS
A	3	4.2	1008
B	2	2.8	672
C	2	2.8	672
D	2	2.8	672
E	4	5.6	1344
F	3	4.2	1008
G	3	4.2	1008
H	3	4.2	1008
TOTAL	22	30.8	7392

- LEGEND**
- LIGHTING CONTROLLER
 - LIGHT POLE, 40.0 FT MH, 15 FT MA, 250W, 240V HPS (RED/BLACK PHASE)
 - LIGHT POLE, 40.0 FT MH, 15 FT MA, 250W, 240V HPS (BLUE/ORANGE PHASE)
 - COMBINATION LIGHT POLE, 40 FT MH, 15 FT MA, 250 W, 240V HPS (RED/BLACK PHASE)
 - COMBINATION LIGHT POLE, 40 FT MH, 15 FT MA, 250W, 240V HPS (BLUE/ORANGE PHASE)
 - ELECTRIC GROUND ROD
 - ELECTRIC UTILITY POLE



FOR INFORMATION ONLY

DETAIL "A"
LUMINAIRE WIRING CONNECTION (TYP.)



MCHENRY COUNTY DIVISION OF TRANSPORTATION
**ALGONQUIN ROAD AT HALIGUS ROAD
 CONTROLLER "E"
 PROPOSED WIRING DIAGRAM**
 SCALE: 1" = 50'
 DATE: FEB. 20, 2008
 DESIGNED BY: SJC
 CHECKED BY: DNM



DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 RT. OF WAY CHECKED: _____
 DATE: _____ FILE NAME: _____
 PLAN: _____ NOTE BOOK NO.: _____
 ENGINEERING LTD.
CHRISTOPHER B. BURKE
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 823-5500
 DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 ELEM. NOTED: _____
 STRUCTURE NOTATIONS CHECKED: _____
 NOTE BOOK NO.: _____

FILE NAME = REC.180176_0
 USER NAME = pandrews
 PLOT SCALE = N.T.S.
 PLOT DATE = 1/12/2022

DESIGNED - AJD	REVISED -
DRAWN - RJJ	REVISED -
CHECKED - AJD	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RECORD DRAWINGS
 ALGONQUIN ROAD AT HALIGUS ROAD**
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

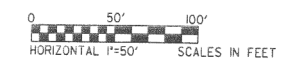
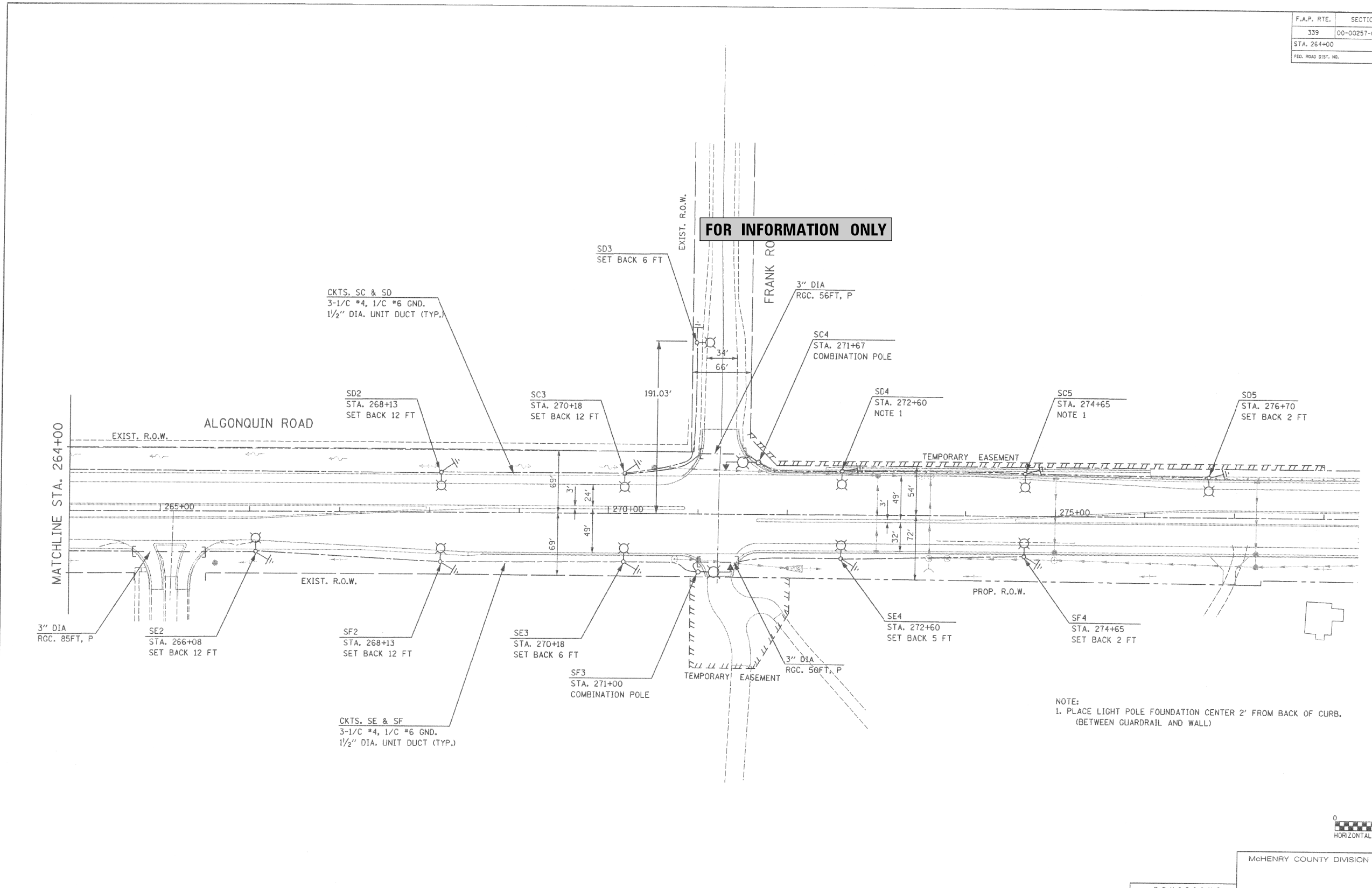
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	121
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	00-00257-00-WR	McHENRY	251	161
STA. 264+00		TO STA. 277+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
DATE	BY	PLAN	NOTE BOOK	NO.	
DATE	BY	PROFILE	NOTE BOOK	NO.	

CHRISTOPHER B. BURKE
ENGINEERING LTD.
3575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(617) 823-9500

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
8035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5900



McHENRY COUNTY DIVISION OF TRANSPORTATION

ALGONQUIN ROAD AT FRANK ROAD
PROPOSED LIGHTING PLAN

REVISIONS	
NAME	DATE

SCALE: 1"=50'
DATE: 01/05/07
DRAWN BY: RDP
CHECKED BY: PKG

FILE NAME = REC.180176_06

USER NAME = pandrews
PLOT SCALE = N.T.S.
PLOT DATE = 1/31/2022

DESIGNED - AJD
DRAWN - RJJ
CHECKED - AJD
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECORD DRAWINGS
ALGONQUIN ROAD AT FRANK ROAD

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	McHENRY	132	126
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

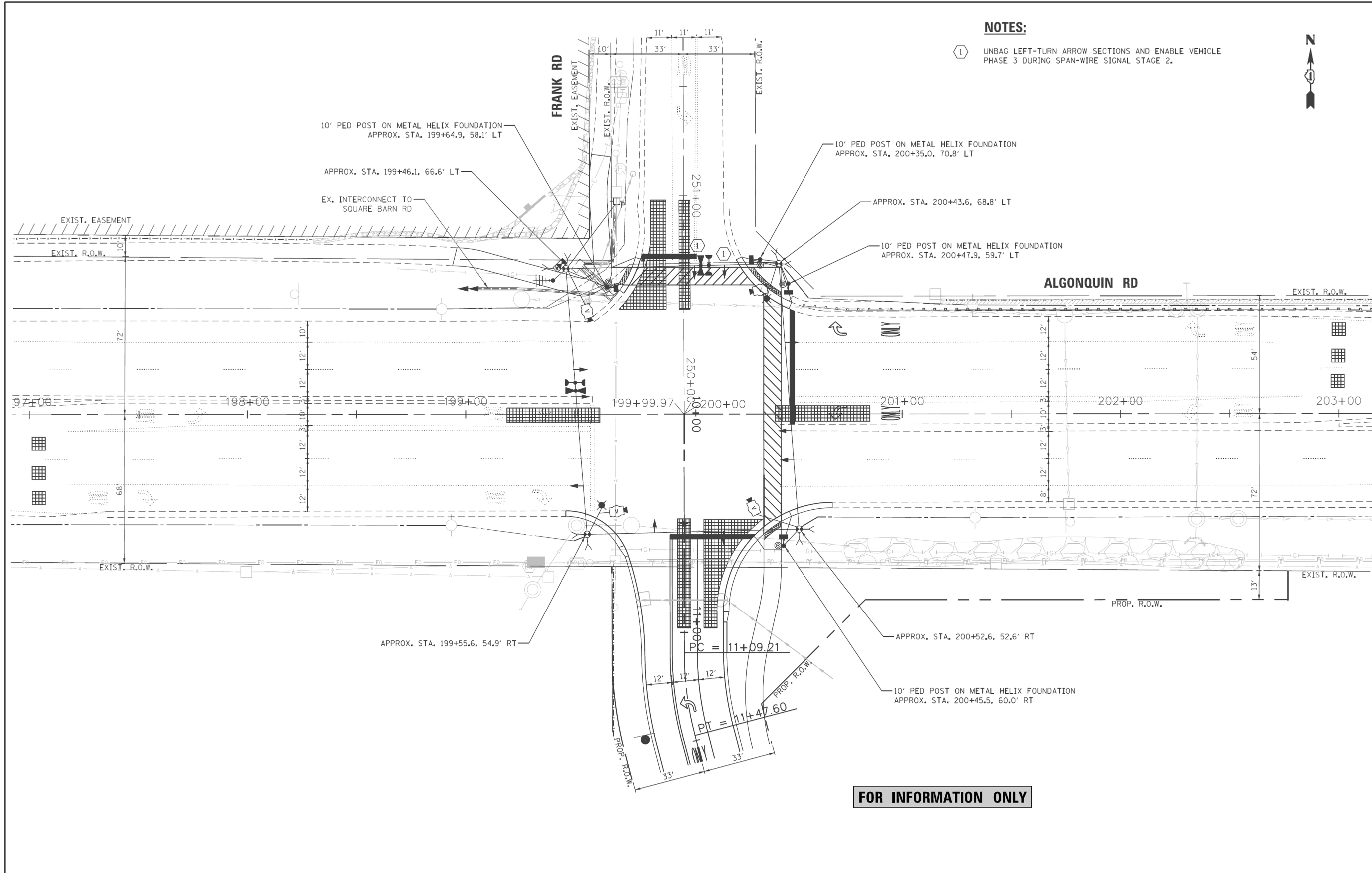
CONTRACT NO. 61H50

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY
		FILE	FILE	FILE			FILE	FILE	FILE		
		PLAN	PLAN	PLAN			PLAN	PLAN	PLAN		
		NO.	NO.	NO.			NO.	NO.	NO.		
		NO.	NO.	NO.			NO.	NO.	NO.		

CHRISTOPHER B. BURKE
 ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 923-5930

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE	BY	SURVEYED	ALIGNED	CHECKED
		FILE	FILE	FILE			FILE	FILE	FILE
		PLAN	PLAN	PLAN			PLAN	PLAN	PLAN
		NO.	NO.	NO.			NO.	NO.	NO.
		NO.	NO.	NO.			NO.	NO.	NO.

TS SHT NO. 10



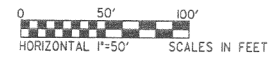
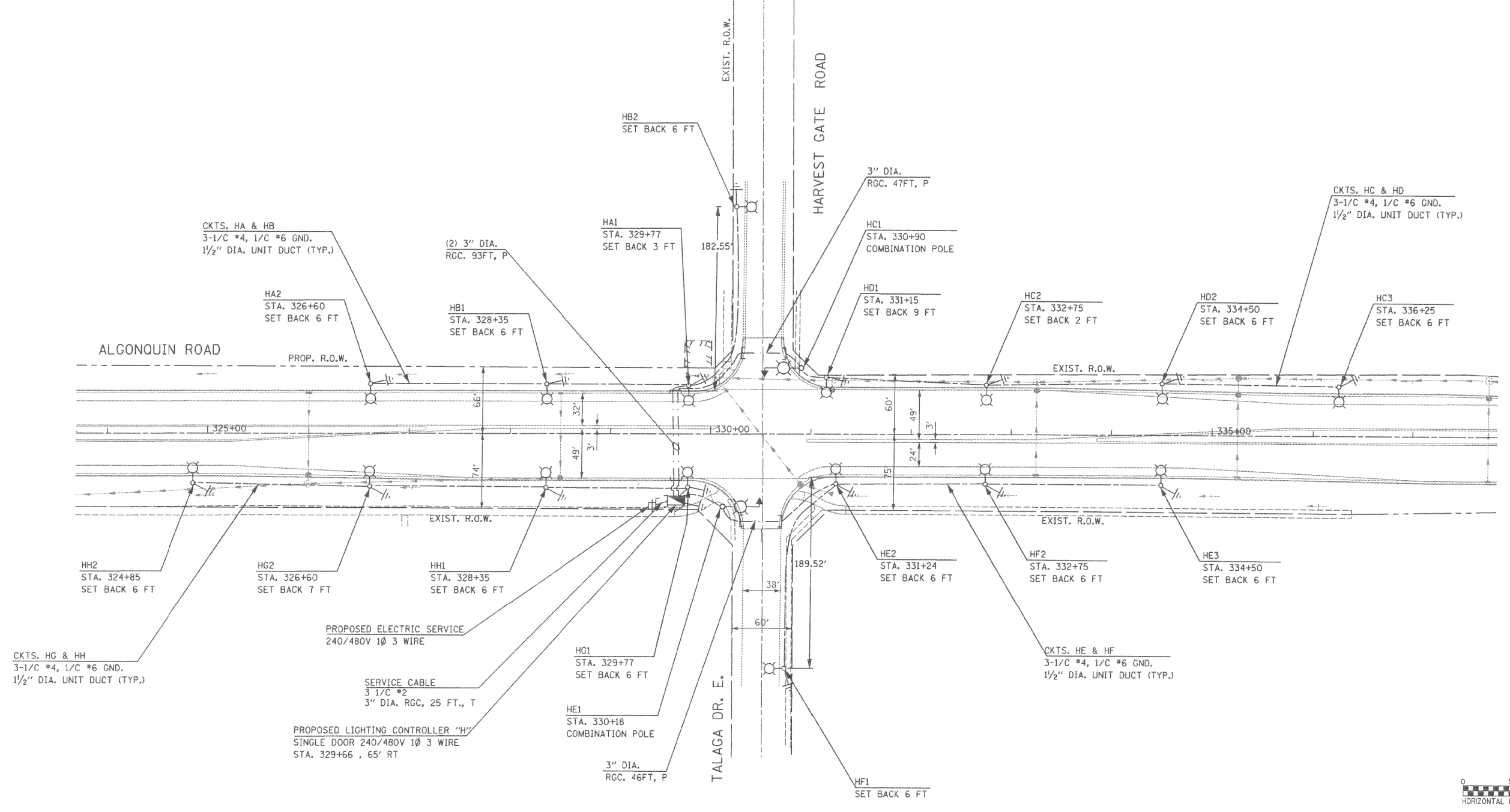
FOR INFORMATION ONLY

FILE NAME = 10 - TempStg2 Algonquin_Frank.dgn	USER NAME = dschnabel	DESIGNED - DS	REVISIONS	<p>Kenig, Lindgren, O'Hara, Aboona, Inc.</p>	9575 West Higgins Road, Suite 400 Rosemont, Illinois 60018 P: (847) 518-9990 F: (847) 518-9987 PROJECT # 19-272	SPAN-WIRE MOUNTED TRAFFIC SIGNAL INSTALLATION PLAN (STAGE 2) ALGONQUIN RD AND FRANK RD		F.A.S. RTE. 339	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 40,0000' / in.	CHECKED - LA	REVISIONS	MCHENRY			TS-12	TS-10					
PLOT DATE = 3/18/2021	DATE - 03/18/2021	REVISIONS	CONTRACT NO.									
ILLINOIS FED. AID PROJECT												

FILE NAME = REC.180176.08	USER NAME = pandrews	DESIGNED - AJD	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RECORD DRAWINGS ALGONQUIN ROAD AT FRANK ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = N.T.S.	CHECKED - AJD	REVISIONS	18-00480-00-TL			MCHENRY	132	127		
PLOT DATE = 1/31/2022	DATE -	REVISIONS	CONTRACT NO. 61H50							
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT										

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	00-00257-00-WR	McHENRY	251	162
STA. 324+50		TO STA. 336+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY



McHENRY COUNTY DIVISION OF TRANSPORTATION

**ALGONQUIN ROAD AT
HARVEST GATE ROAD/ TALAGA DRIVE E.
PROPOSED LIGHTING PLAN**

SCALE: 1"=50' DRAWN BY: RDP
DATE: 01/05/07 CHECKED BY: PKG

REVISIONS	
NAME	DATE

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY CHECKED	ADD. FILE NAME
DATE	BY	SURVEYED	GRADES CHECKED	BLM. NOTED	STRUCTURE NOTATIONS OK'D	PROFILE

FILE NAME = REC.180176_09

USER NAME = pandrews
DESIGNED - AJD
DRAWN - RJJ
CHECKED - AJD
DATE - 1/12/2022

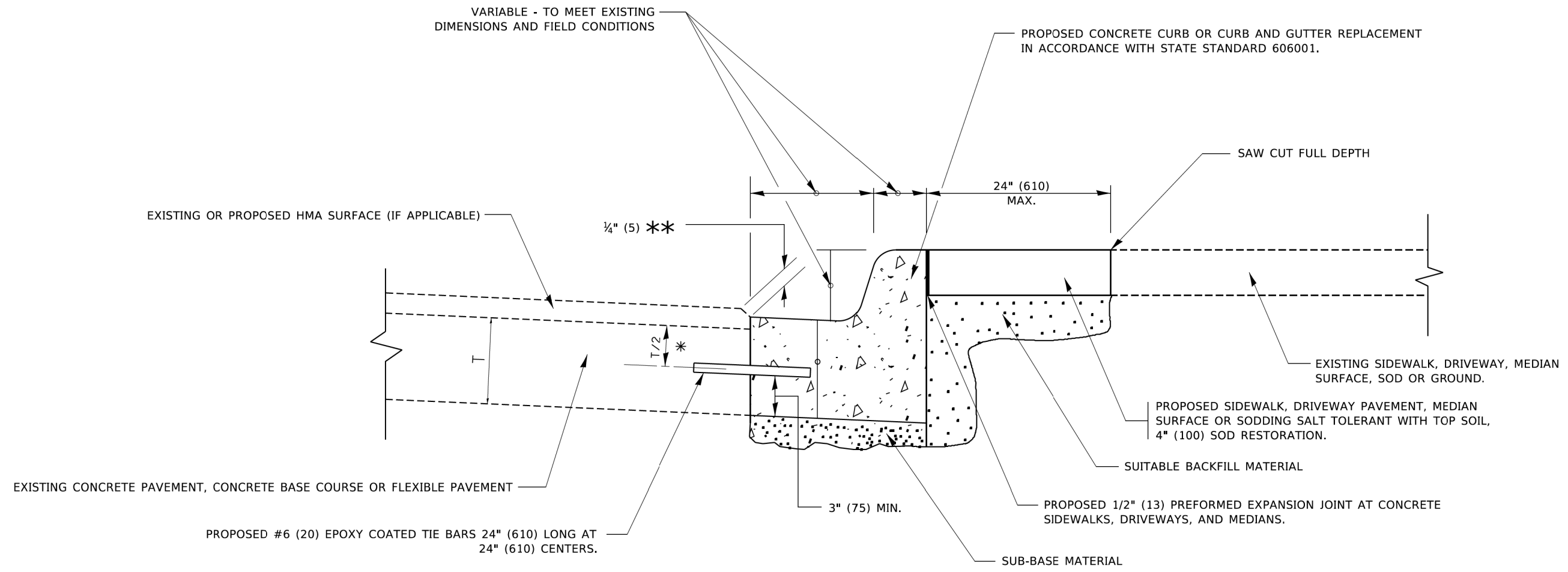
DESIGNED - AJD
DRAWN - RJJ
CHECKED - AJD
DATE - 1/12/2022

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RECORD DRAWINGS
ALGONQUIN ROAD AT HARVEST GATE ROAD**
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	McHENRY	132	128
CONTRACT NO. 61H50				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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TS SHT NO. 1



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

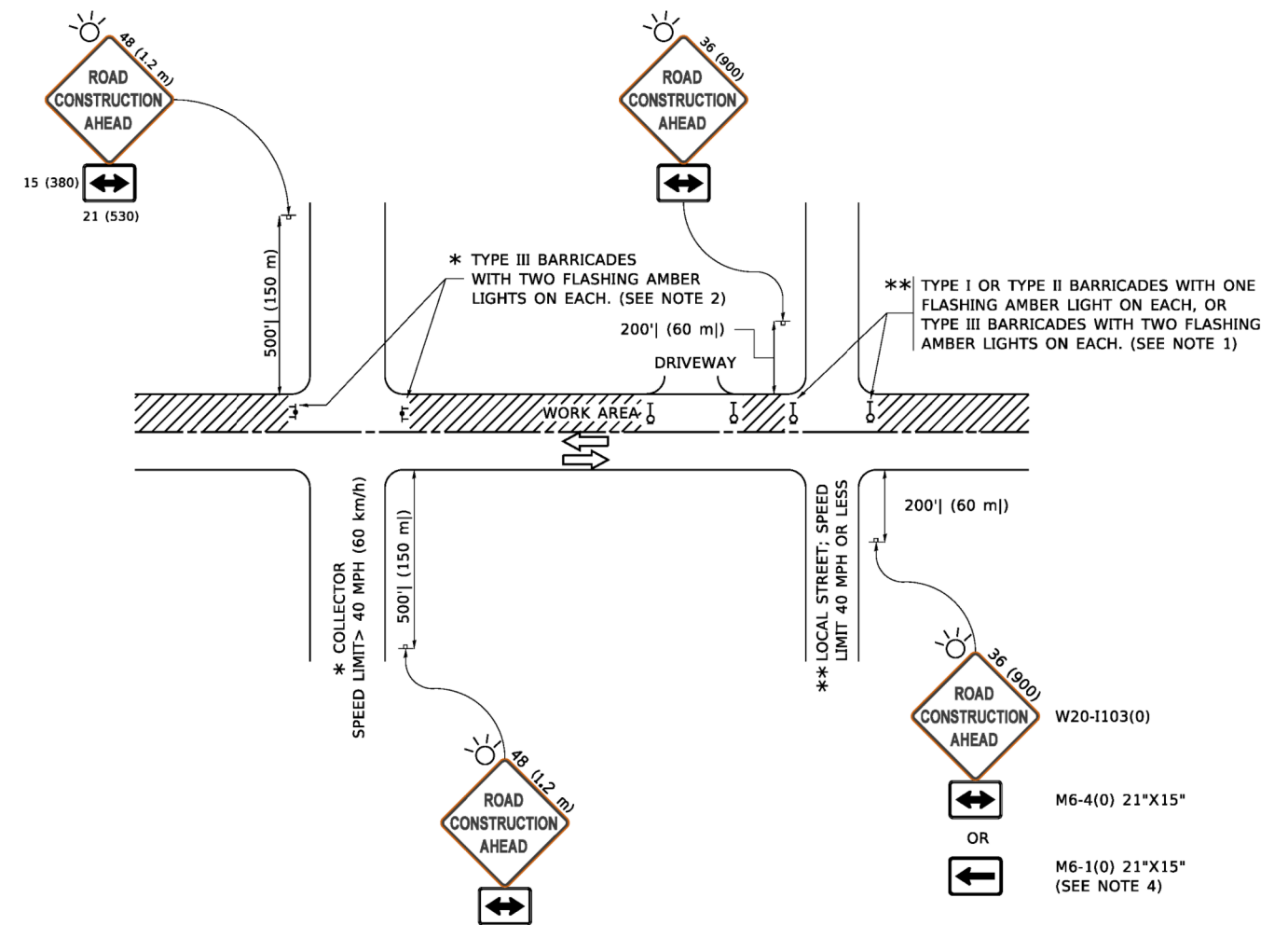
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	129
BD600-06 (BD-24)			CONTRACT NO. 61H50	
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

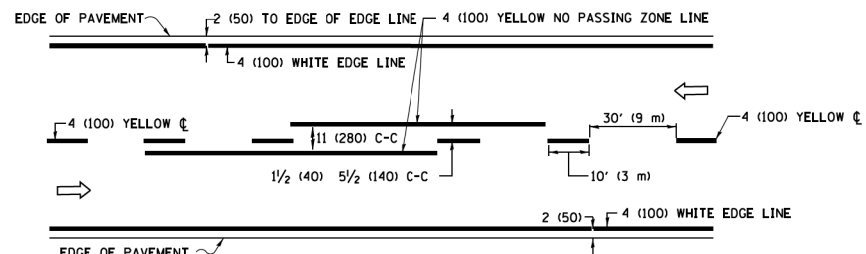
USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

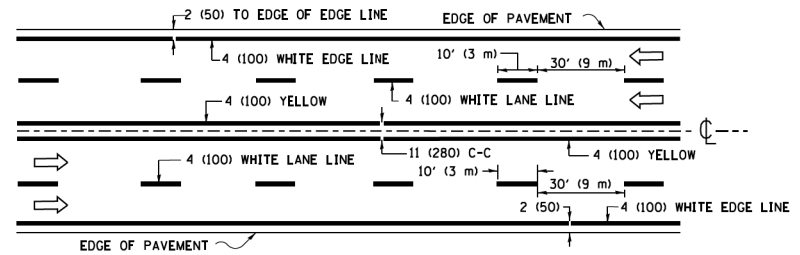
**TRAFFIC CONTROL AND PROTECTION FOR
 SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

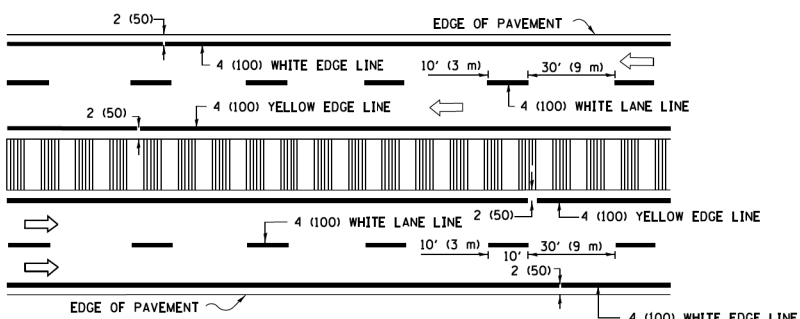
F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	130
TC-10			CONTRACT NO.	61H50
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

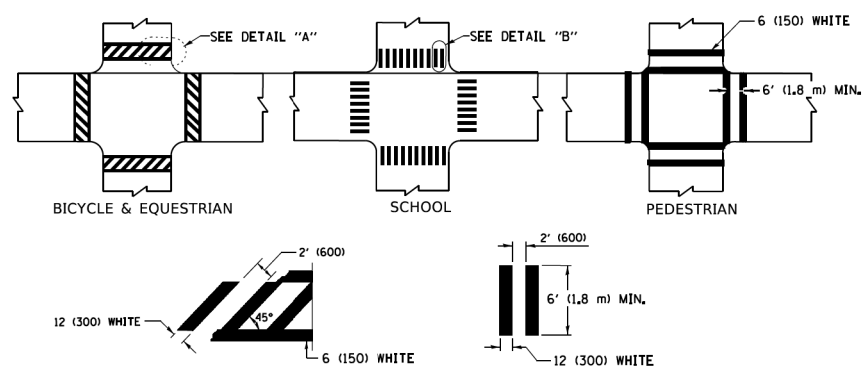


MULTI-LANE UNDIVIDED



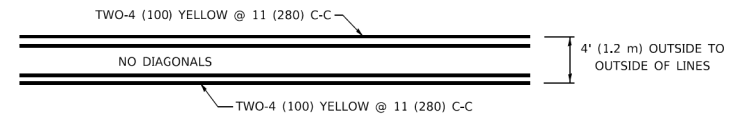
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

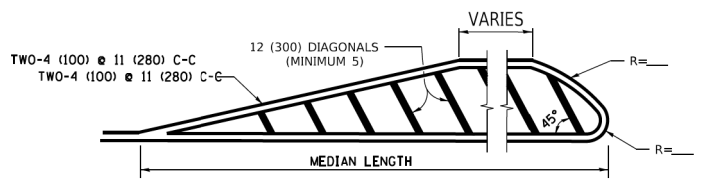


TYPICAL CROSSWALK MARKING

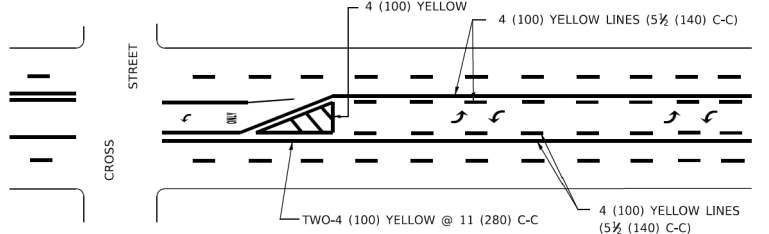
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



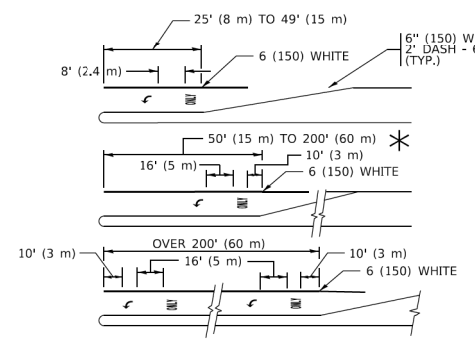
4' (1.2 m) WIDE MEDIANS ONLY



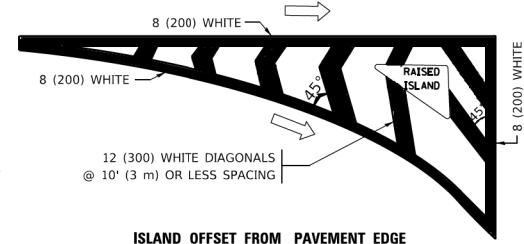
MEDIANS OVER 4' (1.2 m) WIDE



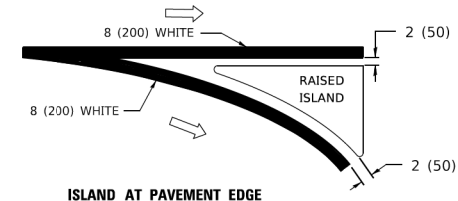
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



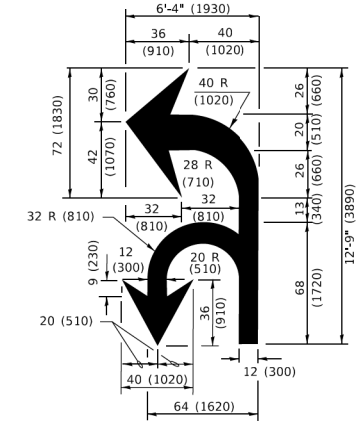
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



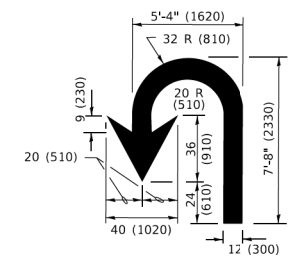
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15' 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ² EACH) *X*=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

TS SHT NO. 1
MODEL: Default
FILE: \\miller\p\work\BENTLEY\ITC\Illinois\gov\WID\Documents\DOT\Office\Bentley\Projects\Bentley\23-24\CADD\TAL\CAD\sheet\ts1.dwg

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 50.00000' / in.	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 12-21-15
	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

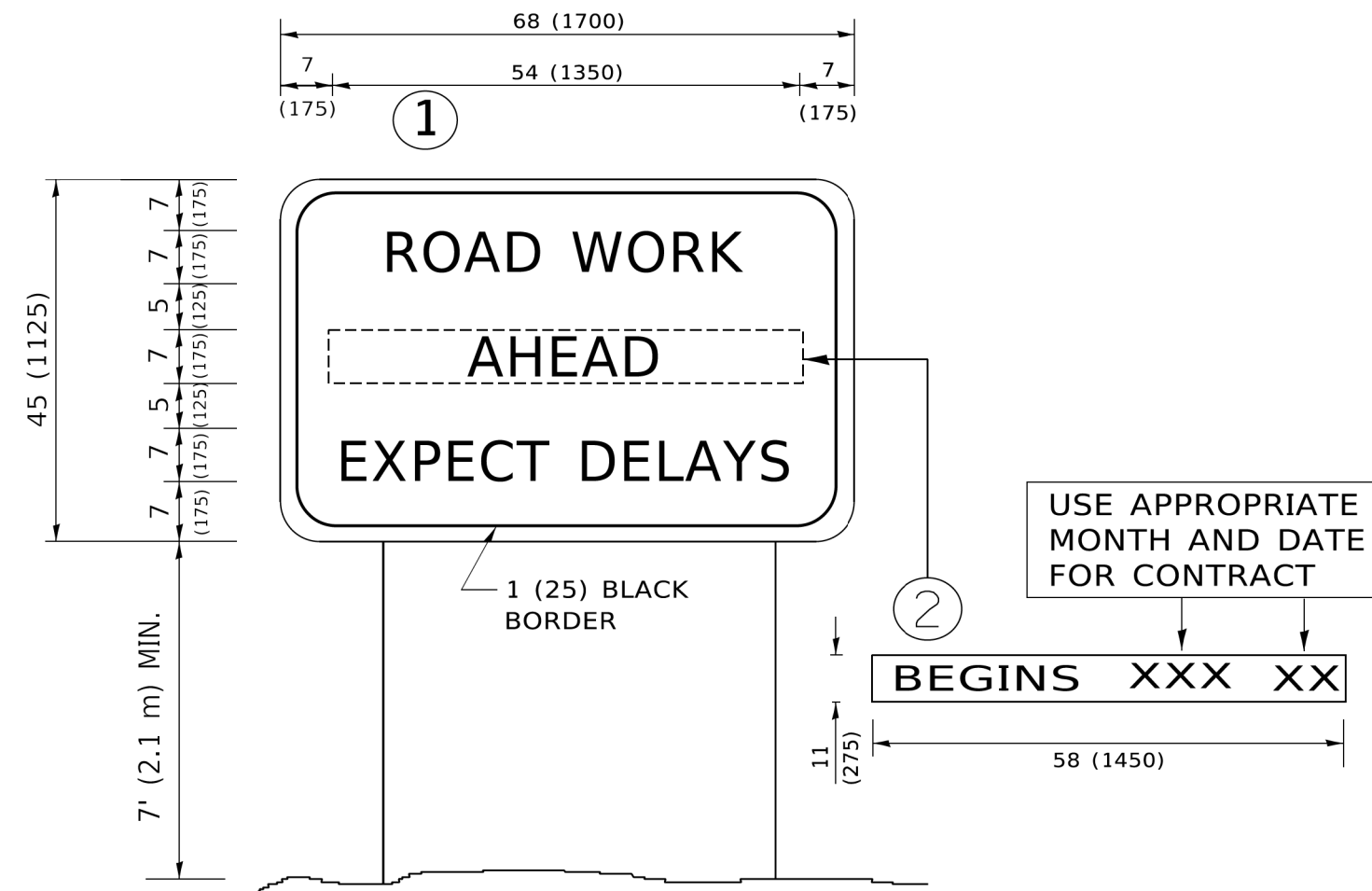
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	131
TC-13		CONTRACT NO.	61H50	
ILLINOIS FED. AID PROJECT				

MODEL: Default
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TS SHT NO. 1



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00480-00-TL	MCHENRY	132	132
TC-22		CONTRACT NO.	61H50	
ILLINOIS FED. AID PROJECT				