

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN DISTRICT 1 CONTRACT NO. 3 SECTION 2018–099–TS PROJECT STP–TH35(673) TROMBONE MAST ARM REPLACEMENT VARIOUS COUNTIES

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C-91-250-19

FOR LOCATION MAPS SEE SHEETS NO. 3-5

VARIOUS TOWNSHIPS

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT

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 EXCAVATORS 1-800-892-0123 OR 811

PROJECT ENGINEER: IOVAN PLASCENCIA (847) 705–4504 PROJECT MANAGER: LUKASZ POCIECHA (847) 705–4420

CONTRACT NO. 62H46

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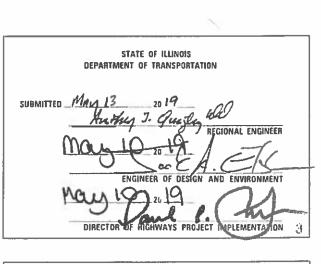
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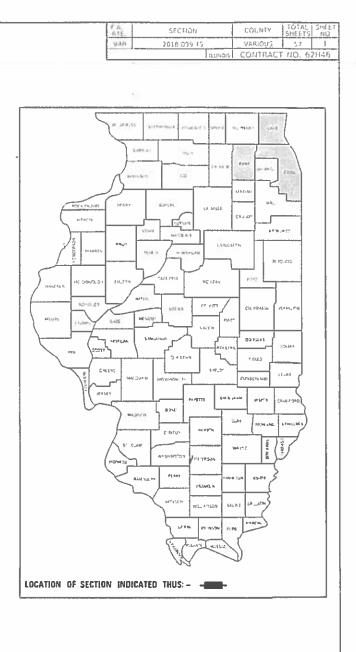
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INDEX OF SHEETS

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<u>SHT NO.</u>	<u>TS NO.</u>	INTERSECTION NAME
19-23 24-28 29-33 34-38 39-42 43-47 48-51 52-55	5630 5620 5625 1285 5830 6805 7020 755	PALATINE RD AT WINDSOR DR PALATINE RD AT SCHOENBECK RD PALATINE RD AT WHEELING RD US RTE 14 AT RAND RD/NORTHWEST HWY TOUHY AVE AT DEE RD IL RTE 176 (ROCKLAND RD) AT IL RTE 43 (WAUKEGAN RD) IL RTE 176 (ROCKLAND RD) AT IL RTE 131 (GREEN BAY RD) IL RTE 38 (STATE ST) AT IL RTE 25 (BENNETT ST)
<u>SHT NO.</u>		DESCRIPTION
56		TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS,

AND DRIVEWAYS (TC-10) 57 ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STD. NO.	TITLE
000001-07	STANDARD SYMBOLS, ABREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS MULITLANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701701-10	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAIL
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-07	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-10	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

RLR NOTES

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS. CONTRACTOR SHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATION:

TS 5625 PALATINE RD AT WHEELING RD

VILLAGE OF WHEELING 2 COMMUNITY BLVD WHEELING, IL 60090 (847) 459-2600

RED SPEED, LLC. 400 EISENHOWER LANE LOMBARD, ILLINOIS 60148 (630) 317-5700

GENERAL NOTES

REOUIRED.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470, 72 HOURS IN ADVANCE OF BEGINNING WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.

ALL EXISTING R.O.W. SHOWN IS APPROXIMATE AND MAY NEED TO BE VERIFIED IN THE FIELD. ANY R.O.W. CONFLICTS SHALL BE COORDINATED WITH THE RESIDENT ENGINEER.

THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK FOR LOCATIONS OF LITUITIES LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES, THE CONTRACTOR SHALL CALL JULIE AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR UNDERGROUND AND OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE AREA ENGINEER. THE RESIDENT ENGINEER AND ANY IMPACTED UTILITY COMPANY OF THE CONFLICT. AND SHALL COORDINATE AND RESOLVE THE ISSUE PRIOIR TO ORDERING MATERIALS, AND PRIOR TO POURING FOUNDATIONS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

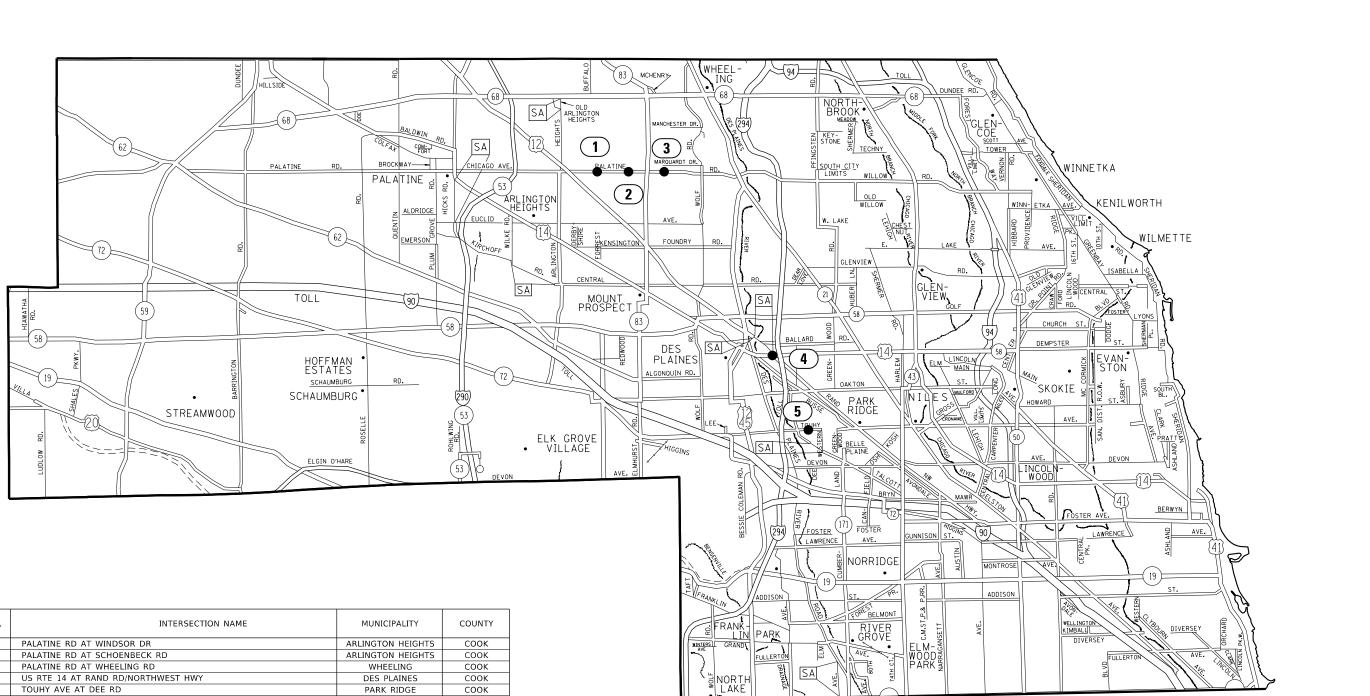
AT LOCATIONS ON THE PLANS WHERE TRAFFIC SIGNAL POST AND/OR MAST ARM AND POLE REMOVAL IS IDENTIFIED AND NEW TRAFFIC SIGNAL POST INSTALLATIONS ARE SPECIFIED, THE CONTRACTOR SHALL INSPECT THE EXISTING FOUNDATIONS PRIOR TO REMOVING THE EXISTING FOUNDATIONS. CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING ANCHOR BOLT IS ACCEPTABLE FOR REUSE WITH A NEW POST. IF THE EXISTING ANCHOR BOLT CONDITION IS NOT ACCEPTABLE, THE CONTRACTOR SHALL REPLACE ANCHOR BOLT AS DIRECTED BY THE ENGINEER. ANCHOR BOLT REPLACEMENT WILL BE PAID FOR AS "REMOVE AND REPLACE ANCHOR BOLTS". "REMOVE AND REPLACE ANCHOR BOLTS" PAY ITEM QUANTITIES SHOWN ARE NOMINAL AND ONLY TO BE UTILIZED AS APPROVED BY THE ENGINEER.

LOCATIONS WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO INSURE ADA COMPLIANCE.

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	DRAWN -	IP	REVISED -	STATE OF ILLINOIS	INDEX OF	SHEETS, H	IGHWAY	STAND	AR
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PLOT DATE = 5/10/2019	DATE -	3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	ST.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS. 48 HOUR NOTIFICATION IS

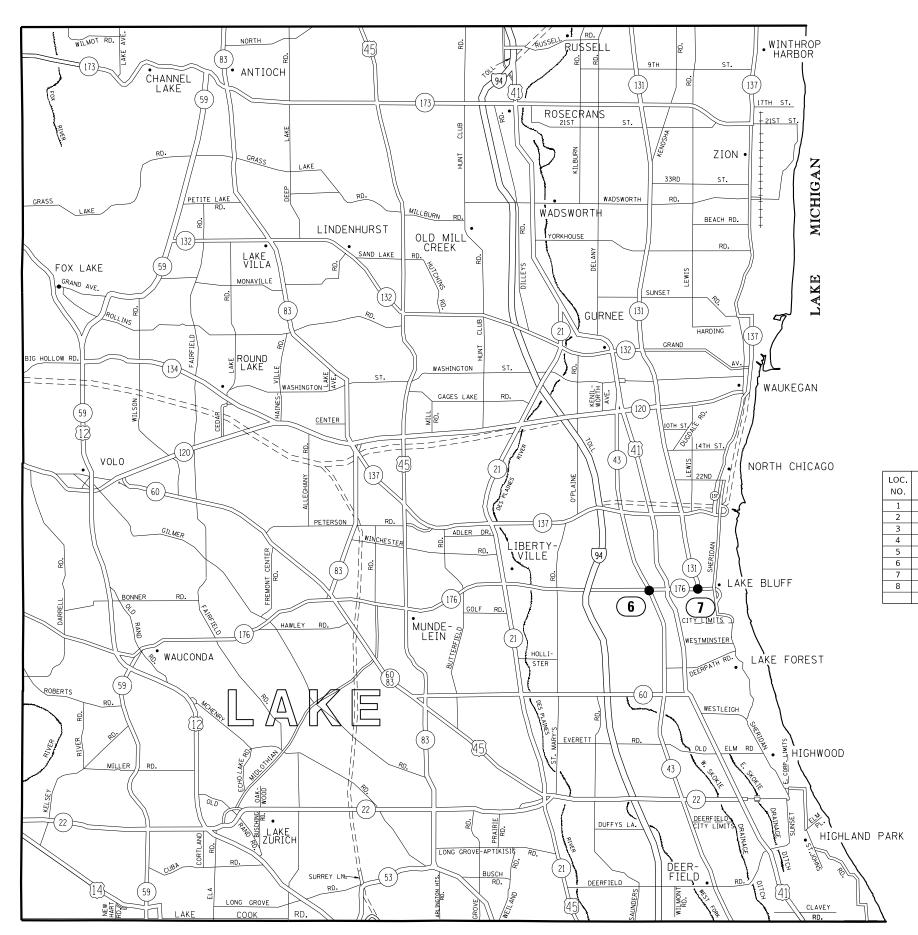
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11	DARDS 8	& GENERAL NOTES	VAR	2018-0	99-TS		VARIOUS	57	2
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LOC. NO.	TS NO.	INTERSECTION NAME	MUNICIPALITY	COUNTY
1	5630	PALATINE RD AT WINDSOR DR	ARLINGTON HEIGHTS	СООК
2	5620	PALATINE RD AT SCHOENBECK RD	ARLINGTON HEIGHTS	COOK
3	5625	PALATINE RD AT WHEELING RD	WHEELING	СООК
4	1285	US RTE 14 AT RAND RD/NORTHWEST HWY	DES PLAINES	СООК
5	5830	TOUHY AVE AT DEE RD	PARK RIDGE	СООК
6	6805	IL RTE 176 (ROCKLAND RD) AT IL RTE 43 (WAUKEGAN RD)	LAKE BLUFF	LAKE
7	7020	IL RTE 176 (ROCKLAND RD) AT IL RTE 131 (GREEN BAY RD)	LAKE BLUFF	LAKE
8	755	IL RTE 38 (STATE ST) AT IL RTE 25 (BENNETT ST)	GENEVA	KANE

USER NAME = plascenciai	DESIGNED -	IP	REVISED -			LOCATION MAP North Cook County		F.A. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.		
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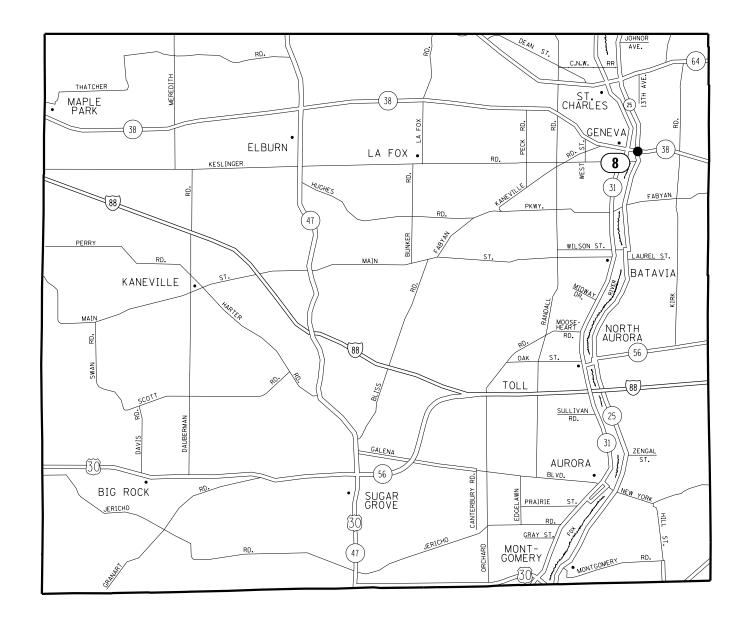
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LOC. NO.	TS NO.	INTERSECTION NAME	MUNICIPALITY	COUNTY
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				VARIOUS	80% FED	80% FED	CONSTRU 80% FED	
				COUNTIES	20% STATE	20% STATE	20% STATE	
ſ			1	1	COOK COUNTY	LAKE COUNTY	KANE COUNTY	
	CODE	ITEM	UNIT	TOTAL			TRAFFI	
	NO.			QUANTITY				002 IRB/
								T
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	105	48	41	16	
								+
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	3	1	1	1	T
			EACH		-	-	-	_
	66001001				0.57	0.20	0.14	+
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	0.57	0.29	0.14	
								+
*	66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	7	4	2	1	
-								_
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	0.57	0.29	0.14	
-								+
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	1	1	1	
								+
	67100100	MOBILIZATION	L SUM	1	0.62	0.25	0.13	
								-
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.62	0.25	0.13	
								_
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.50	0.25	0.25	+
	70102040			1	0.50	0.25	0.25	_
-								+
*	72000100	SIGN PANEL - TYPE 1	SQ FT	75	75			
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	724	249	402	73	
								_
	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	508	318	147	43	
								+
								\perp
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	629	530	99		
								+
	81400200	HEAVY-DUTY HANDHOLE	EACH	11		8	3	
								+
ı	*= SPECIAL	TY ITEM						

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			VARIOUS	0.00/ 555	0.00/ 555	CONSTRU	
			COUNTIES	80% FED 20% STATE COOK COUNTY	80% FED 20% STATE LAKE COUNTY	80% FED 20% STATE KANE COUNTY	
CODE	ITEM	UNIT	TOTAL				C S
NO .			QUANTITY				RB/
81400300	DOUBLE HANDHOLE	EACH	1	1			t
							-
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	8	5	2	1	+
							-
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,155	1,756	825	574	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	5,479	3,095	1,434	950	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	11,441	7,814	2,157	1,470	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	7,312	4,013	2,104	1,195	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3,340	1,340	1,440	560	_
							_
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,795	1,285	380	130	_
							_
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	14	9	1	4	_
							_
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	4	2	2		_
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1		1		
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	4	3		1	_
							_
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	2			2	_
							+
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2	2			_

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			VARIOUS	80% FED 20% STATE	80% FED 20% STATE	CONSTRU 80% FED 20% STATE	Ť
			COUNTIES	COOK COUNTY	LAKE COUNTY	KANE COUNTY	
CODE	ITEM	UNIT	TOTAL -			TRAFFI	C :
NO.			QUANTITY -				RB.
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87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2	2			+
37700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2	1		1	_
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	2		2		-
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1		1		+
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2	2			_
87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1		1		+
07702310			-		-		+
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	28	24		4	1
87800400			212	120	20	E 4	_
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	212	128	30	54	+
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	76	26	50		
87900200	DRILL EXISTING HANDHOLE	EACH	56	26	21	9	_
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	41	24	11	6	+
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	17	12	1	4	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	25	12	9	4	+
							+
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	25	12	9	4	\downarrow

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				80% FED 20% STATE COOK COUNTY	80% FED 20% STATE LAKE COUNTY	80% FED 20% STATE KANE COUNTY	
CODE	ITEM	UNIT	TOTAL			TRAFFI	
NO.		UNTI	QUANTITY)0 RB
							T
88055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8	8			_
88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	28	28			_
							-
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	94	64	20	10	
88600100	DETECTOR LOOP, TYPE I	FOOT	1,185		905	280	_
			1,105				_
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8			8	+
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	27	11	8	8	_
89300200	RELOCATE EXISTING FEDESTRIAN SIGNAL HEAD	EACH	27	11	0	0	-
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	14	11	3		
20501250		5101					_
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	7	4	2	1	_
89502200	MODIFY EXISTING CONTROLLER	EACH	2	2			+
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	2	2			_
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	19,620	10,720	5,400	3,500	_
			19,020	10,720	5,400	3,500	-
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1,385	500	885		Ť
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8	5	2	1	_
89502380	REMOVE EXISTING HANDHOLE	EACH	11	7	1	3	+
							+

USER NAME = plascenciai	DESIGNED - IP	REVISED -			S	UMMAR	Y OF QUANTITIES		F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
	DRAWN - IP	REVISED -	STATE OF ILLINOIS			(SHI	EET 4 OF 5)		VAR	2018-099-TS	VARIOUS	57	9
PLOT SCALE = 100.0000 / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION			(511			_		CONTRAC	T NO. 6	62H46
PLOT DATE = 5/13/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED	AID PROJECT		

TION CODE]
SIGNALS	
021 BAN	

						CONSTRUC	ст
			VARIOUS COUNTIES	80% FED 20% STATE COOK COUNTY	80% FED 20% STATE LAKE COUNTY	80% FED 20% STATE KANE COUNTY	
CODE	ITEM	UNIT	TOTAL			TRAFFIC	C :
NO.			QUANTITY			UF	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	29	15	9	5	+
							+
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	2,152	1,295	581	276	t
							T
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	250		250		
							-
X8130125	REMOVE EXISTING JUNCTION BOX	EACH	7		4	3	
							+
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8		8		-
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	668.2	359.8	205.6	102.8	+
							-
Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	5	2	1	2	-
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	9	4	4	1	-
X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	36	16	16	4	Ť
							T
							+
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L		1	1	1	1	1	

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	DRAWN - IP	REVISED -	STATE OF ILLINOIS		-		IEET 5 OF 5)		VAR	2018-099-TS	VARIOUS	57	10
PLOT SCALE = 100.0000 / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION			101					CONTRACT	T NO. 62	2H46
PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

TION CODE]
SIGNALS	
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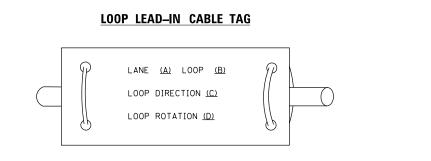
TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

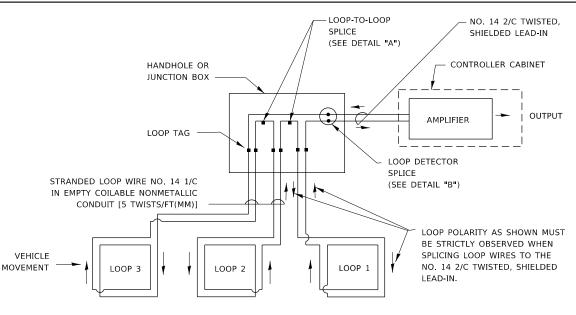
ITEM EXISTING CONTROLLER CABINET Image: Control cabinet COMMUNICATION CABINET Image: Control cabinet MASTER CONTROLLER Image: Control cabinet MASTER MASTER CONTROLLER Image: Control cabinet UNINTERRUPTABLE POWER SUPPLY Image: Control cabinet SERVICE INSTALLATION Image: Control cabinet	CC CC MC MMC E	ITEM HANDHOLE -SQUARE -ROUND HEAVY DUTY H, -SQUARE -ROUND DOUBLE HANDH JUNCTION BOX		EXISTING S H D	PROPOSED	ITEM SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		R R Y Y G G Y Y G G Y Y
COMMUNICATION CABINET ECC MASTER CONTROLLER EMC MASTER MASTER CONTROLLER EMC UNINTERRUPTABLE POWER SUPPLY Image: Control cont	23 [2M DMM S Q Q	-SQUARE -ROUND HEAVY DUTY H, -SQUARE -ROUND DOUBLE HANDH					R Y C V	Y Y
MASTER CONTROLLER EMCC MASTER MASTER CONTROLLER EMCC UNINTERRUPTABLE POWER SUPPLY SERVICE INSTALLATION -(P) POLE MOUNTED	 Д РР	HEAVY DUTY H. -SQUARE -ROUND DOUBLE HANDH		H ®	H 0			G G
MASTER MASTER CONTROLLER EMMC UNINTERRUPTABLE POWER SUPPLY SERVICE INSTALLATION -(P) POLE MOUNTED	р р	-ROUND DOUBLE HANDF	IOLE	H (f)	E O			
UNINTERRUPTABLE POWER SUPPLY	P		IOLE				€G €G P	€ G € G P
SERVICE INSTALLATION -(P) POLE MOUNTED -(P)	Р Р	JUNCTION BOX				SIGNAL HEAD WITH BACKPLATE	R R R	R R R
-(P) POLE MOUNTED	РР				0	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		R R R Y Y Y G G G
	·	RAILROAD CAN	TILEVER MAST ARM	X CX X X	Xei X			
SERVICE INSTALLATION		RAILROAD FLAS	HING SIGNAL	XoX	X+X		P RB	P RB
-(G) ground mounted (GM) ground mounted metered $\ensuremath{\boxtimes}^{\mbox{${\rm G}$}}\ensuremath{\boxtimes}^{\mbox{${\rm G}$}}$	^{GM} ⊠ ^G ⊠ ^G	M RAILROAD CRO	SSING GATE	X oX >	X • 3	PEDESTRIAN SIGNAL HEAD		*
TELEPHONE CONNECTION	Т	RAILROAD CRO	SSBUCK	本	¥	AT RAILROAD INTERSECTIONS	X	×
STEEL MAST ARM ASSEMBLY AND POLE	- •	RAILROAD CON	TROLLER CABINET			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C C D	₩ C ★ D
ALUMINUM MAST ARM ASSEMBLY AND POLE	>	UNDERGROUND GALVANIZED ST						
STEEL COMBINATION MAST ARM $ ho$ ASSEMBLY AND POLE WITH LUMINAIRE	- • x	TEMPORARY SP. TETHER WIRE,				ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY O	• • BM			S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
WOOD POLE 🛞	θ		ITEM	Ι	IP	GROUND CABLE IN CONDUIT,		
GUY WIRE >	\succ	REMOVE ITEM RELOCATE ITEM			RL	NO. 6 SOLID COPPER (GREEN)	1#6	<u> </u>
SIGNAL HEAD ->>		ABANDON ITEM			A	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	
SIGNAL HEAD WITH BACKPLATE +>	+►	CONTROLLER C			RCF	COAXIAL CABLE	— <u>c</u>	—C—
SIGNAL HEAD OPTICALLY PROGRAMMED	+> P +>				NCr			-
	+⊳ ^{FS} •►	FS FOUNDATION TO			RMF	VENDOR CABLE	—(v)—	
-(FS) SOLAR POWERED		FS SIGNAL POST A FOUNDATION TO			RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
PEDESTRIAN SIGNAL HEAD –	-1	DETECTOR LOO	P, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F	12F	12F
PEDESTRIAN PUSH BUTTON (© ©	APS © AF	S PREFORMED DE	TECTOR LOOP	Р	9 9	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	24F	
RADAR DETECTION SENSOR		SAMPLING (SYS	TEM) DETECTOR	s s	S S			
VIDEO DETECTION CAMERA		INTERSECTION (SYSTEM) DETE		IS (IS	IS (IS)			
RADAR/VIDEO DETECTION ZONE		QUEUE AND SA	MPLING	QS (QS	QS (QS	GROUND ROD -(C) CONTROLLER	÷ ^C ÷ ^M ÷ ^P ÷ ^S	$\stackrel{\pm}{\uparrow}^{C} \stackrel{\pm}{\uparrow}^{M} \stackrel{\pm}{\uparrow}^{P} \stackrel{\pm}{\uparrow}^{S}$
PAN, TILT, ZOOM (PTZ) CAMERA] PTZ	(SYSTEM) DETE				-(M) MAST ARM -(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR		WIRELESS DETE			®			
CONFIMATION BEACON		WIRELESS ACCE	SS PUINT					
WIRELESS INTERCONNECT	-							
	RR							

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

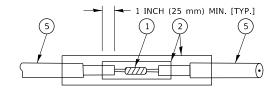


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.



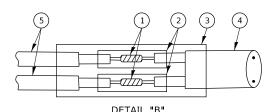
DETAIL "A" LOOP-TO-LOOP SPLICE

(6) 36" TO 60" 1" (25mm) MIN. (TYP) 36" TO 60" DETAIL "A" LOOP-TO-LOOP SPLICE

LOOP DETECTOR SPLICE

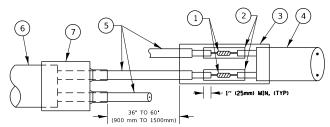
- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm),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

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PLOT DATE = 5/10/2019	DATE -	REVISED -		SCALE: NONE	SHEET 2	OF 7	SHEETS	S STA.	TO STA.		ILLINOIS FE	ED. AID PROJECT	



LOOP-TO-CONTROLLER SPLICE

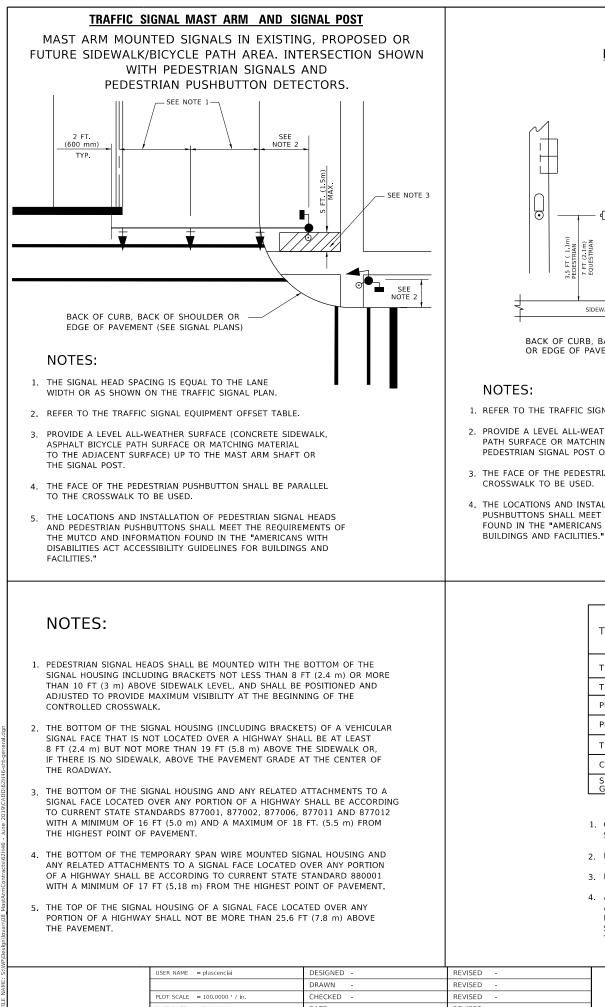
TYPE I LOOP

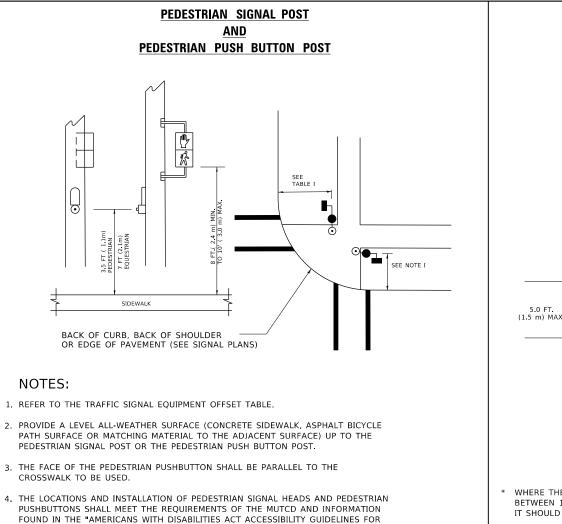


PRE-FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE

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





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BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.
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TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOU
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOU
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOU
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOU
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOU
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOU
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOU
NOTES		

NOTES:

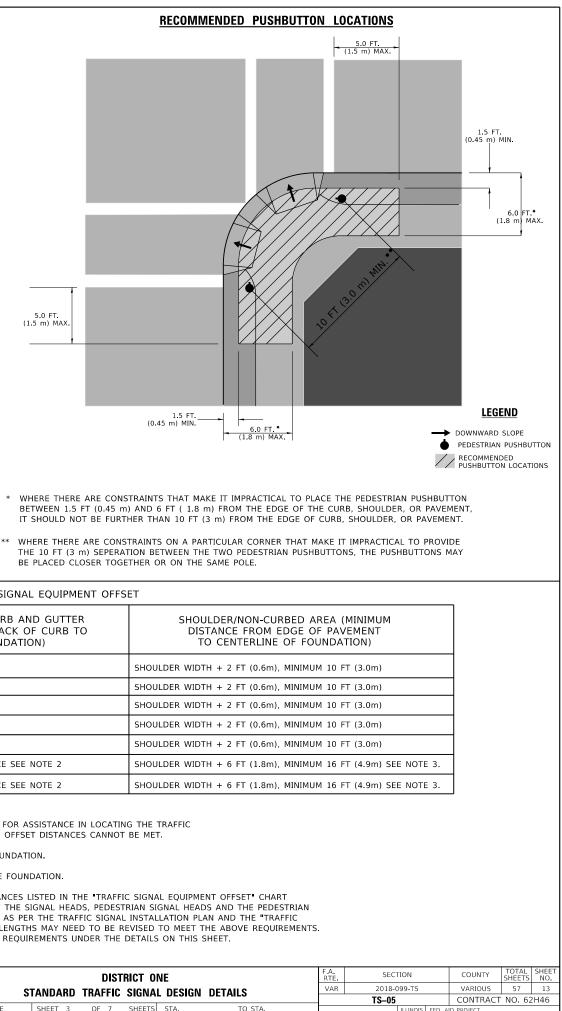
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.

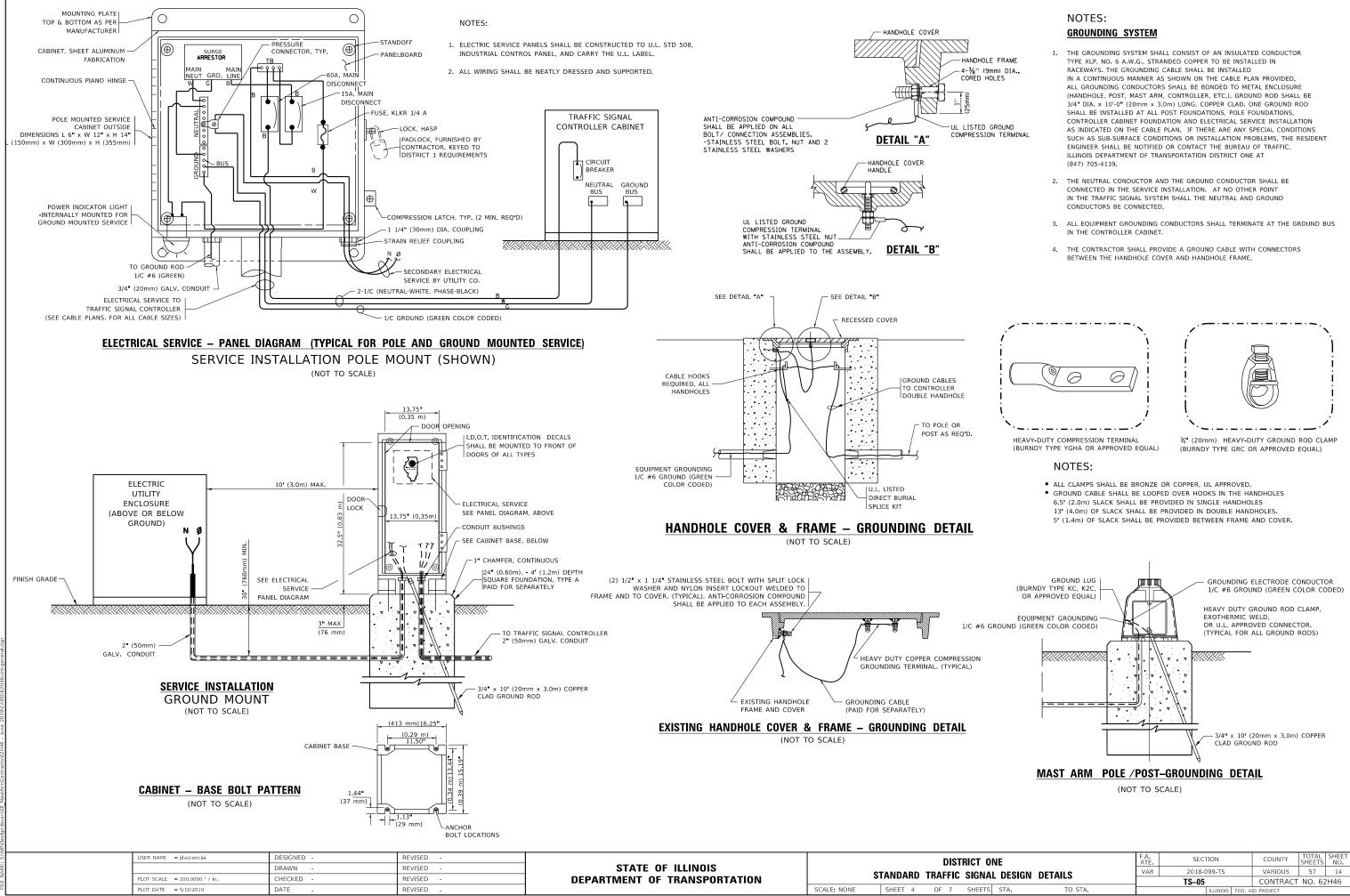
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.

3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.

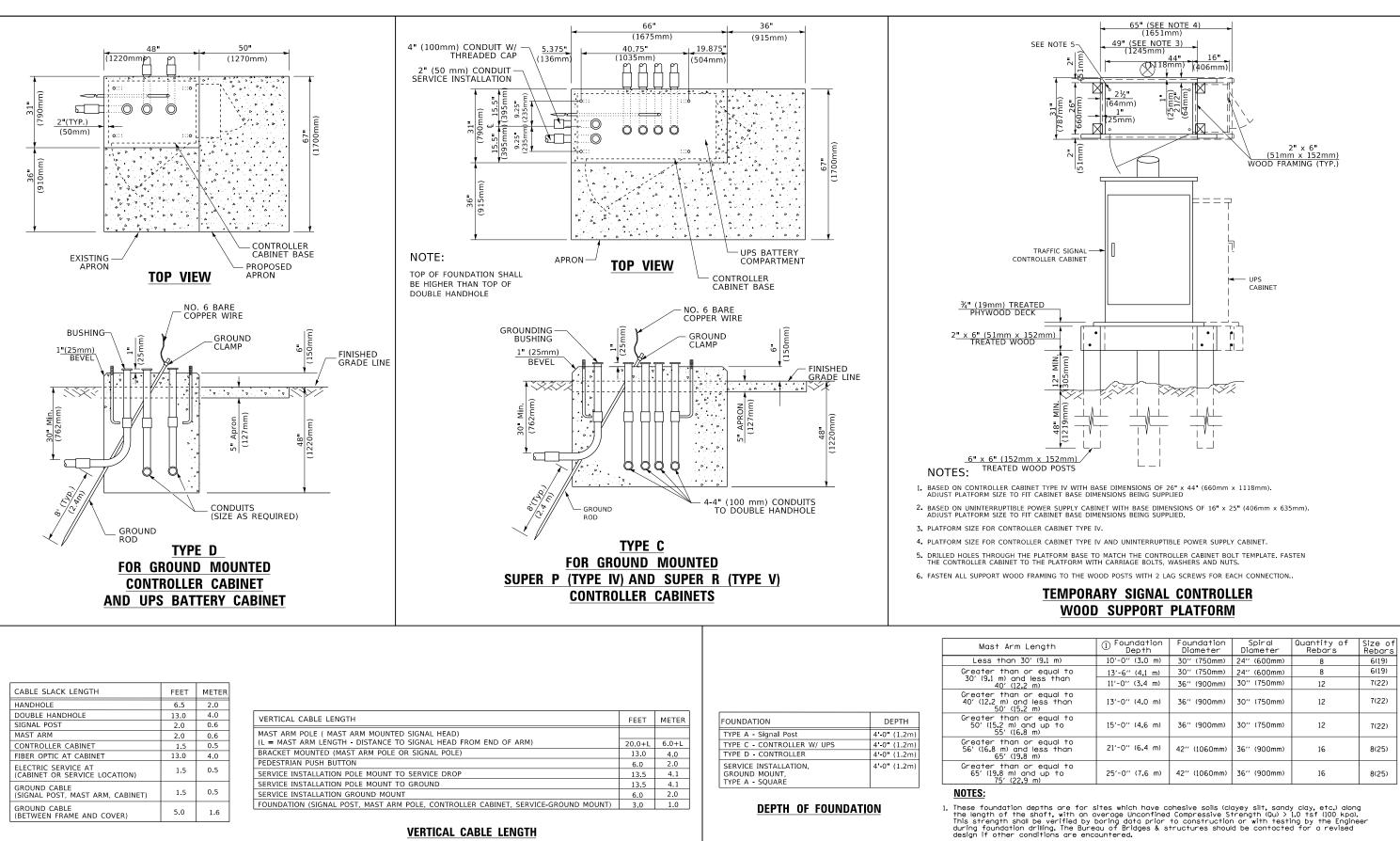
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS, THE SIGNAL HEAD PLACEMENT 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

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01	NE		F.A. RTE	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
171	L DESIGN	DETAILS	VAR	2018-0)99-TS		VARIOUS	57	14
	. DESIGN	DETAILS		TS05			CONTRACT	NO. 62	2H46
TS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



CABLE SLACK

VERTICAL CABLE LENGTH

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

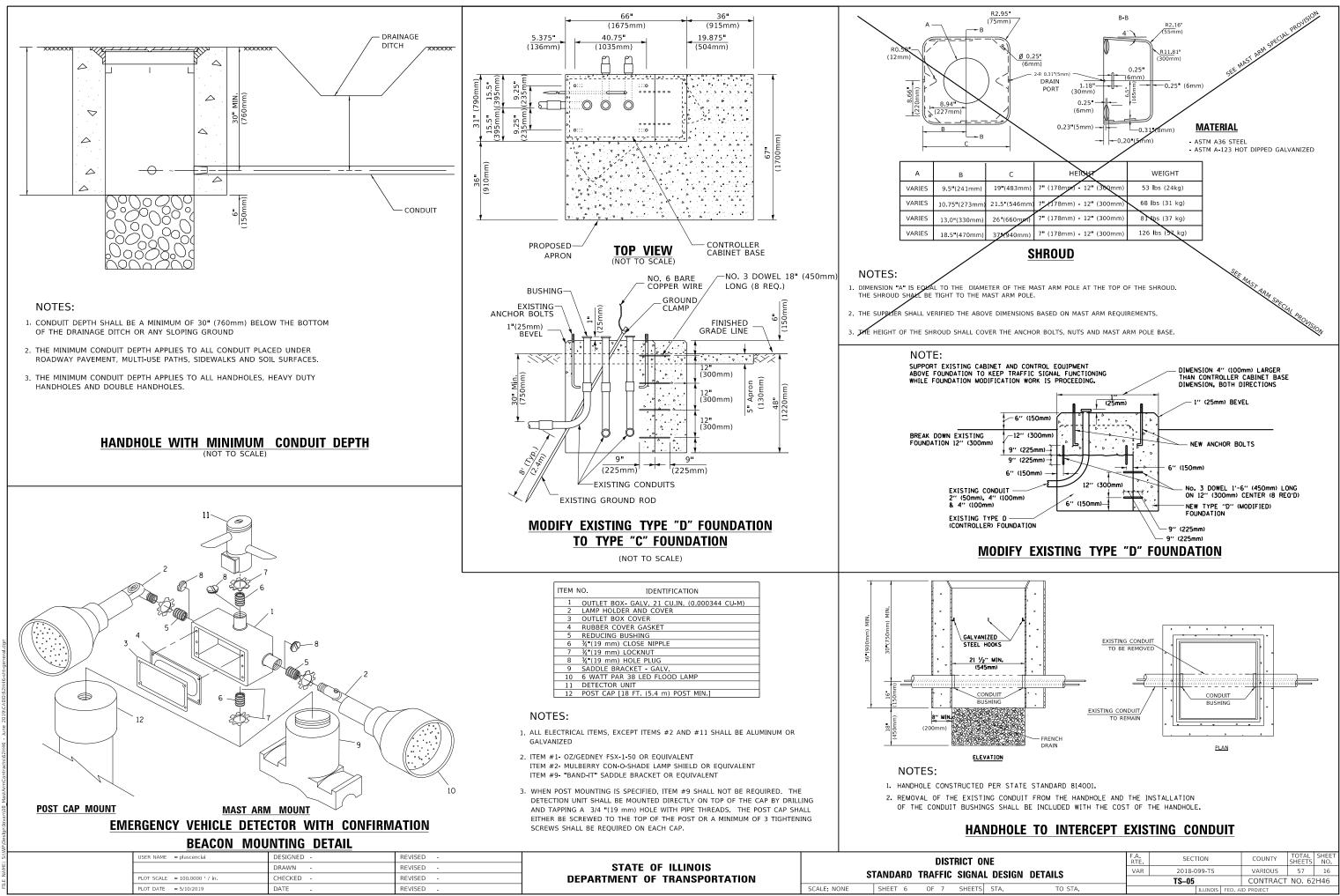
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	DRAWN -	REVISED -	STATE OF ILLINOIS							VAR	2018-099-TS	VARIOUS 51	57 15
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PLOT DATE = 5/10/2019	DATE -	REVISED -		SCALE: NONE	SHEET 5	OF 7	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

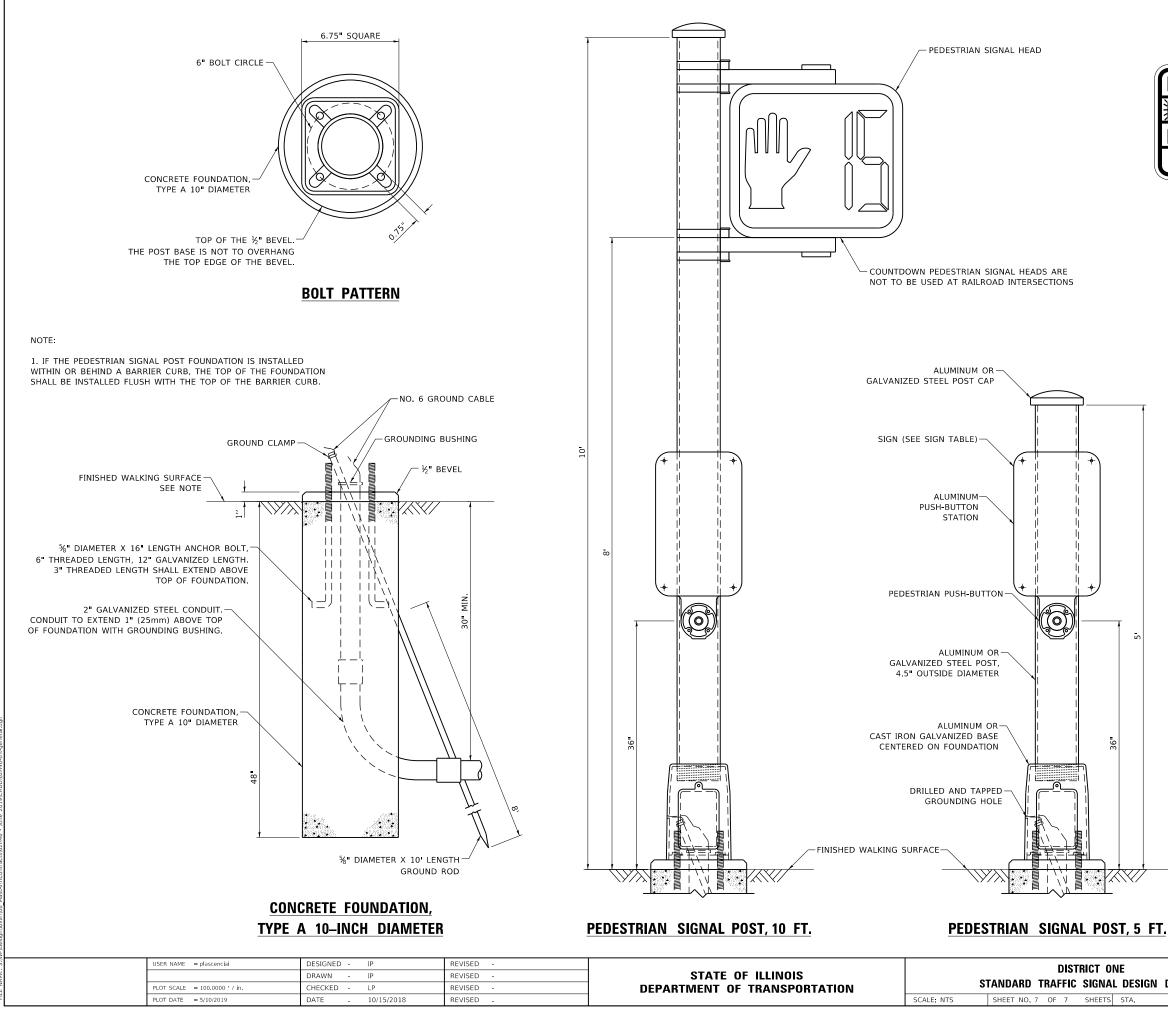
ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
′(9.1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
r equal to	13'-6" (4.1 m)	30'' (750mm)	24'' (600mm)	8	6(19)
less than m)	11'-0'' (3.4 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	13'-0'' (4.0 m)	36'' (900mm)	30" (750mm)	12	7(22)
r equal to nd up to m)	15'-0'' (4.6 m)	36'' (900mm)	30" (750mm)	12	7(22)
r equal to less than m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
r equal to nd up to m)	25'-0'' (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

2. 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

4. For mast arm assemblies with dual arms refer to state standard 878001.







R10-3b

R10-3d

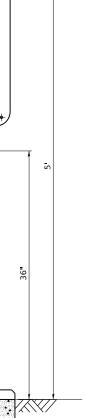
R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:

- 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
- 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE **BI-DIRECTIONAL**
- 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.



10	NE		F.A. RTE	F.A. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
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				TS05			CONTRACT	NO. 62	2H46
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SIGN PANEL – TYPE 1 OR TYPE 2 60 3.75 35.25 11.125 3.875 Sample Rd 60 14.5 4.125 4.125 8.25 17 **Rte 123** 30 Rd Sample 3.75 3.875 35.25 6 11.125 84 35.25 6 9.125 4.875 4.75 12 12 Sample St 6 30 Sample Rd 3.75 3.875 35.25 6 11.125 12 12 DESIGN AREA SIGN PANEL SHEETING QTY. TYPE REQUIRED SERIES (SQ FT) TYPE

D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

		WIDTH	(INCH)
NAME	ABBREVATION	SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	C+	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	ΡI	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	S†	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

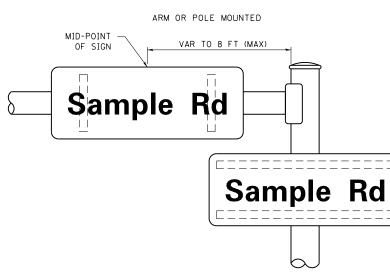
GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" × 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-O". ALL BORDERS SHALL BE ⅔4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6". IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-O" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-O" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-O" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- 5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

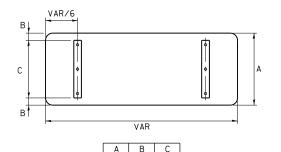
LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL SIGN SCREWS	PART #HPN053 (MED. CHANNEL) 1/4″ × 14 × 1″ H.W.H. #3
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	SELF TAPPING WITH NEOPRENE WASHER PART *HPNO34 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

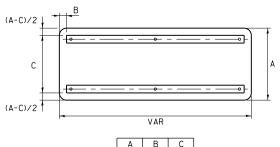


SUPPORTING CHANNELS



18" 2" 14"

30'' 2'' 24''



18''

2" 12"

30" 2" 22"

USER NAME = plascenciai	DESIGNED - IP	REVISED -		DISTRICT ONE			SECTION	COUNTY TOTAL SHEET
	DRAWN - IP	- IP REVISED - STATE OF ILLINOIS			VAR	2018-099-TS	VARIOUS 57 18	
PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS			TS-02	CONTRACT NO. 62H46
PLOT DATE = 5/10/2019	DATE - 10/15/2018	REVISED -		SCALE: NTS	SHEET NO. 7 OF 7 SHEETS STA. TO STA.		ILLINOIS FI	ED. AID PROJECT

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

	FHWA SEF	RIES "C"			FHWA SEF	RIES "D"	
HARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
<u>C</u>	0.720	4.482	0.720	C	0.800	5.446	0.800
D E	0.880	4.482	0.720	DE	0.960	5.446 4.962	0.800
F	0.880	4.082	0.240	F	0.960	4.962	0.400
G	0.000	4.482	0.720	G	0.800	5.446	0.240
Н	0.880	4.482	0.880	Н	0.960	5.446	0.960
Ι	0.880	1.120	0.880	Ι	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
К	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
М	0.880	5.284	0.880	М	0.960	6.244	0.960
<u>N</u>	0.880	4.482	0.880	N	0.960	5.446	0.960
0 P	0.720	4.722	0.720	0 P	0.800	5.684 5.446	0.800
<u>Р</u> Q	0.880	4.482	0.720	Q	0.960	5.684	0.240
 R	0.720	4. 482	0. 120	R	0.800	5.446	0.800
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
٧	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y 7	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z a	0.480	4.482 3.842	0.480	Z	0.400	5.446 4.562	0.400
 b	0. 720	4.082	0.480	b	0.400	4.802	0. 120
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
е	0.480	4.082	0.320	е	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h ·	0.720	4.082	0.640	h ·	0.800	4.722	0.720
1	0.720	1.120	0.720	ī t	0.800	1.280	0.800
j k	0.000	2.320	0.120	j k	0.000	2.642	0.800
	0.720	1.120	0.720		0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
0	0.480	4.082	0.480	0	0.480	4.882	0.480
P	0.720	4.082	0.480	p	0.800	4.802	0.480
P	0.480	4.082	0.720	P	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s †	0.320	3.362	0.240	s †	0.320	3.762	0.240
 	0.080	2.882 4.082	0.080	u I	0.080	3.202 4.722	0.080
v	0.160	4.722	0.120	v	0.120	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
×	0.000	5.202	0.000	×	0.000	6.244	0.000
У	0.160	4.962	0.160	У	0.160	6.004	0.160
Z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3 4	0.480	4.482	0.480	3	1.440	5.446 6.004	0.800
5	0.240	4. 982	0. 120	5	0.180	5.446	0.960
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
		4 700	0 700		0 000	5 6 9 4	0 000
0	0.720	4.722	0.720	0	0.800	5.684 2.802	0.800

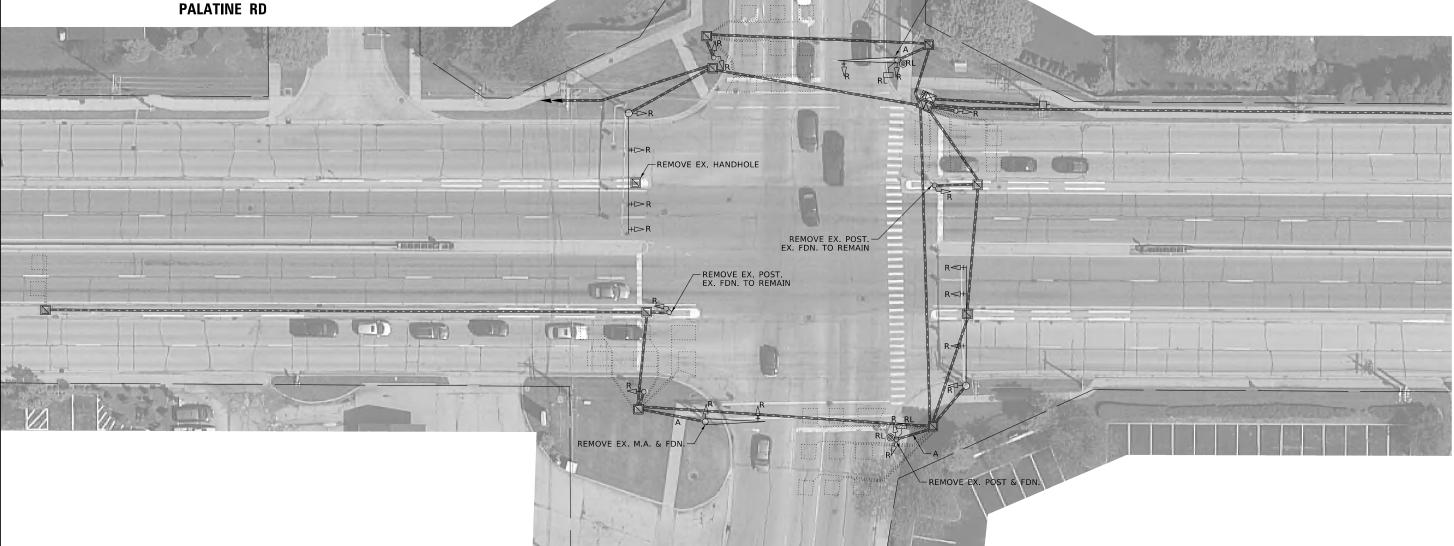
REMOVAL AND RELOCATION NOTES:

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.

- 2 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE TRAFFIC SIGNAL POST
- 3 EACH
- 20 EACH 3-SECTION SIGNAL HEAD

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES AND POLES, AND WILL BE PAID UNDER THE PAY ITEM RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT:

4 EACH STREET NAME SIGN PANEL



DR

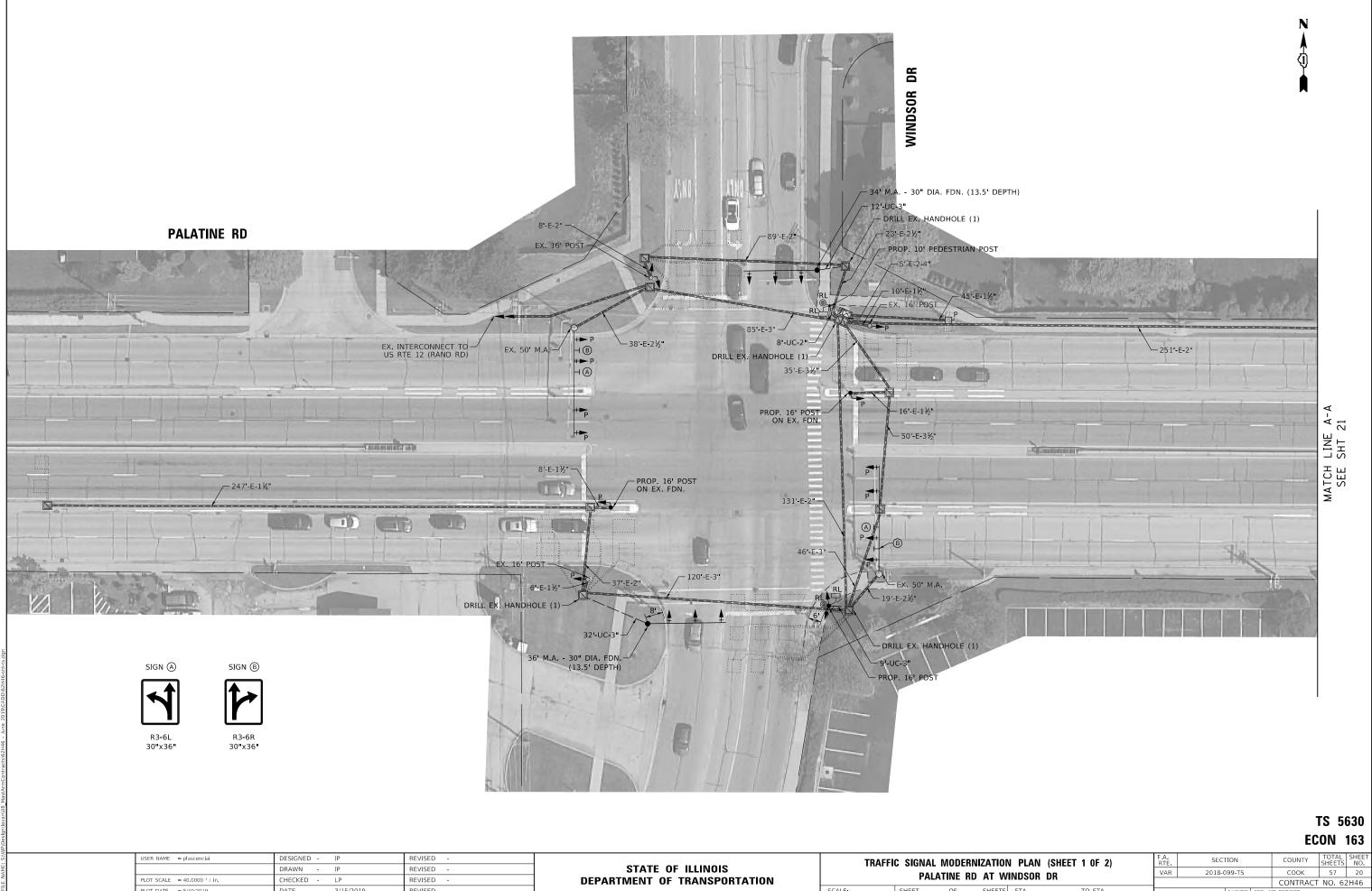
WINDSOR

-REMOVE EX. M.A. & FDN.

USER NAME = plascenciai	DESIGNED -	IP	REVISED -			TRAI	FFIC SIG	NAL REN	10VAL PLAN		F A BTE	SECTION	COUNTY	TOTAL S	HEET NO.
	DRAWN -	IP	REVISED -	STATE OF ILLINOIS	PALATINE RD AT WINDSOF				VAR	2018-099-TS	соок	57	19		
PLOT SCALE = 40,0000 ' / in.	CHECKED -	LP	REVISED -	DEPARTMENT OF TRANSPORTATION			INDOOR DR				CONTRACT	NO. 62H	146		
PLOT DATE = 5/10/2019	DATE -	3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

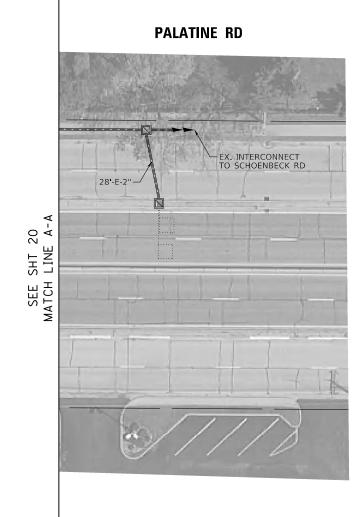
TS 5630 ECON 163

N



TO STA.

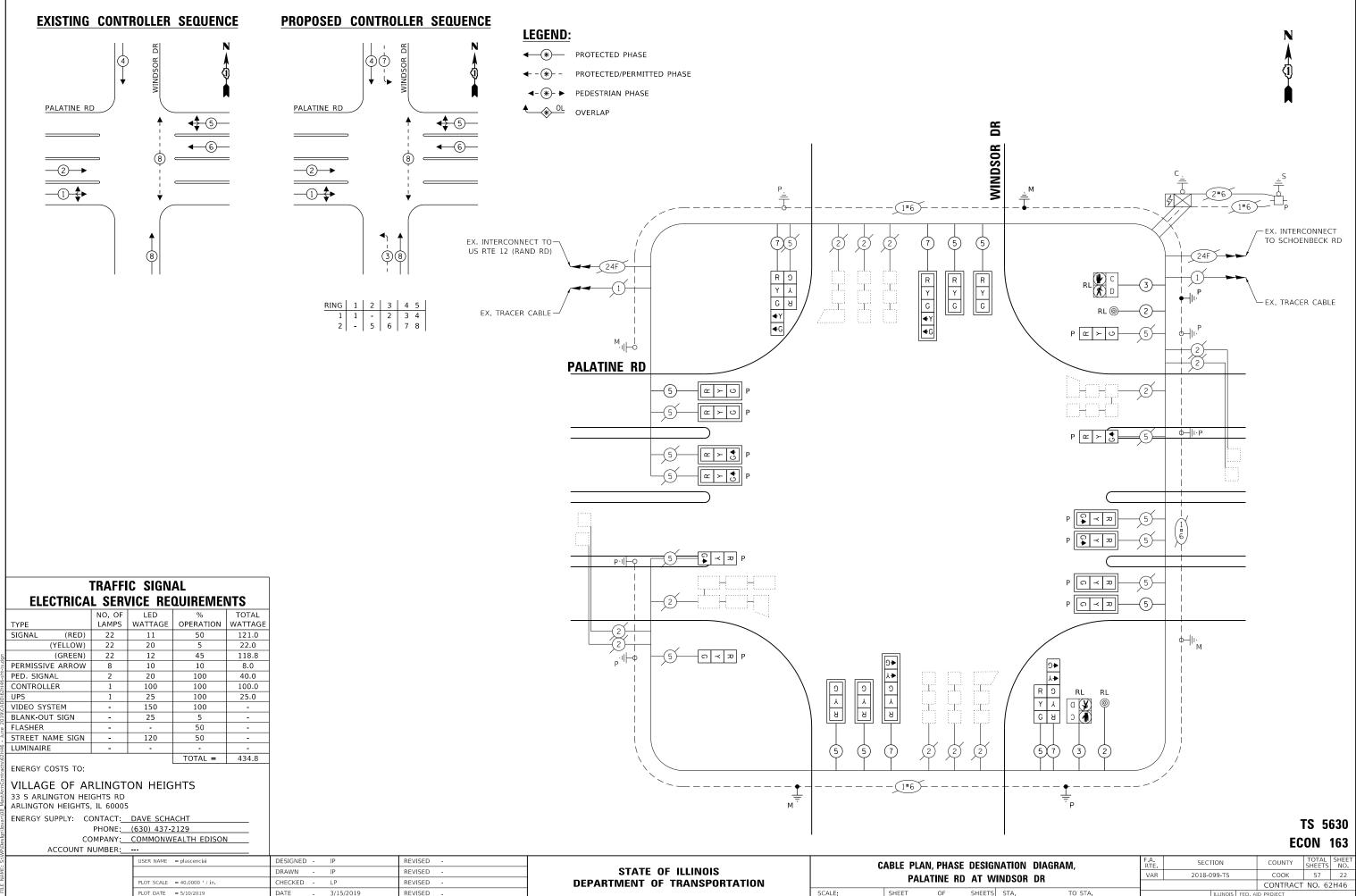
		USER NAME = plascenciai PLOT SCALE = 40.0000 ' / in.	DESIGNED - DRAWN - CHECKED -	IP IP LP	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFI		MODERN TINE RD		PLAN DSOR
PLOT DATE = 5/10/2019 DATE - 3/15/2019 REVISED - SCALE: SHEET OF SHEETS STA	P	PLOT DATE = 5/10/2019	DATE -	3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS STA	Α.



USER NAME = plascenciai DESIGNED - IP REVISED -				TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)					F.A. BTE	SECTION	COUNTY	TOTAL SHEET		
PL PL		DRAWN -	IP	REVISED -	STATE OF ILLINOIS	PALATINE RD AT WINDSOR DR					VAR	2018-099-TS	соок	57 21
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	LP	REVISED -	DEPARTMENT OF TRANSPORTATION		PAL	LATINE K	D AT WINDSOK	DK			CONTRAC	T NO. 62H46
	PLOT DATE = 5/10/2019	DATE -	3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS	FED. AID PROJECT	



TS 5630 ECON 163



10DEL: Defa

SCHEDULE OF QUANTITIES

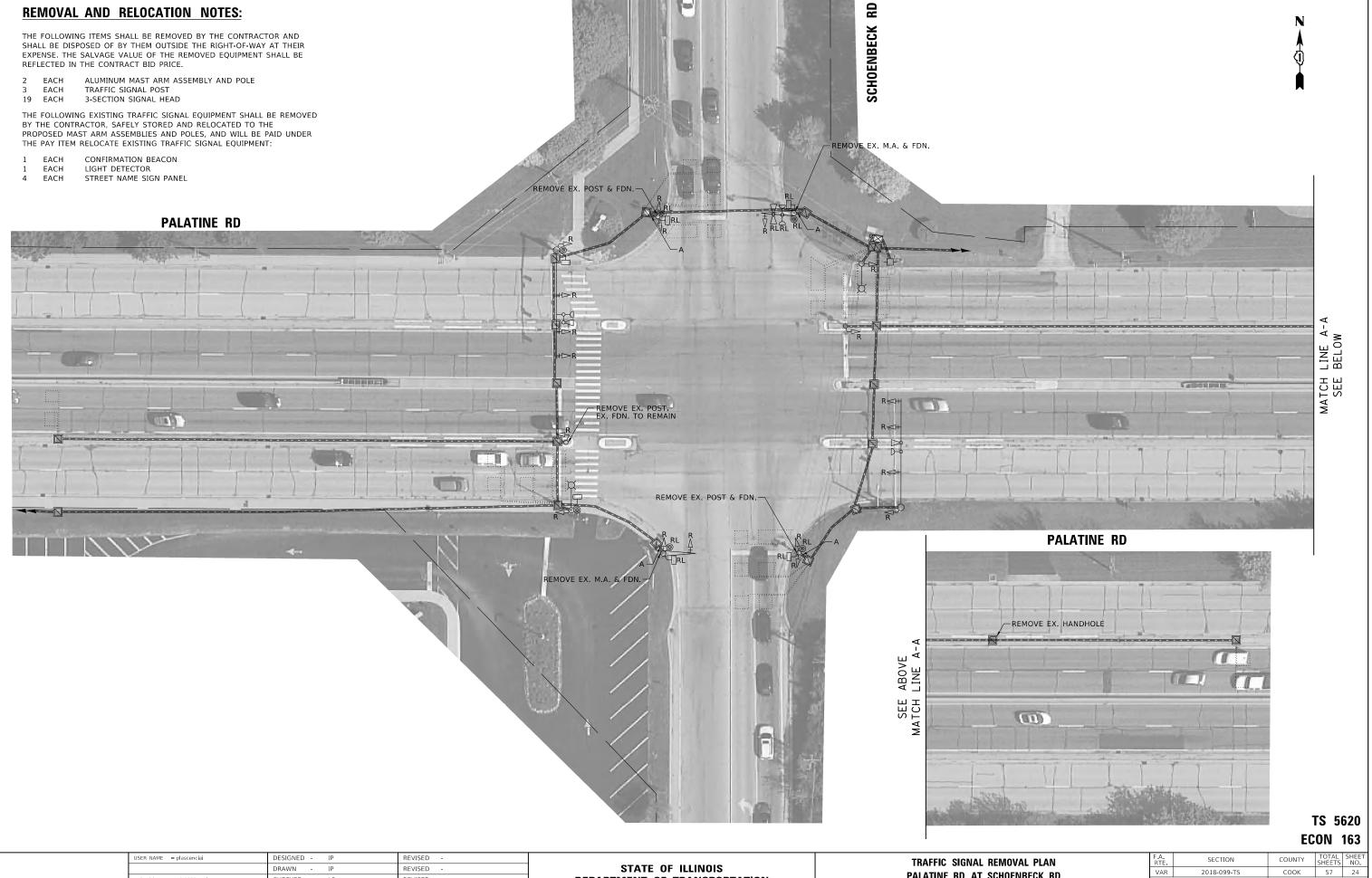
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	30
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	8
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	53
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	221
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	229
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,523
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	864
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	115
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27.0
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,000
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
REMOVE AND REPLACE ANCHOR BOLTS	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4

	USER NAME = plascenciai	DESIGNED - IP	REVISED -			9	SCHEDUI	LE OF QUANTITIES		F.A. BTE	SECTION	COUNTY	TOTAL	. SHEET
		DRAWN - IP	REVISED -	STATE OF ILLINOIS	PALATINE RD AT WINDSOR DR			VAR	2018-099-TS	соок	57	23		
	PLOT SCALE = 40.0000 / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION		PAI	ATINE M	KD AT WINDSOK DK				CONTRAC	T NO. 6	52H46
PLC	PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FEI	, AID PROJECT		

TS 5630 ECON 163

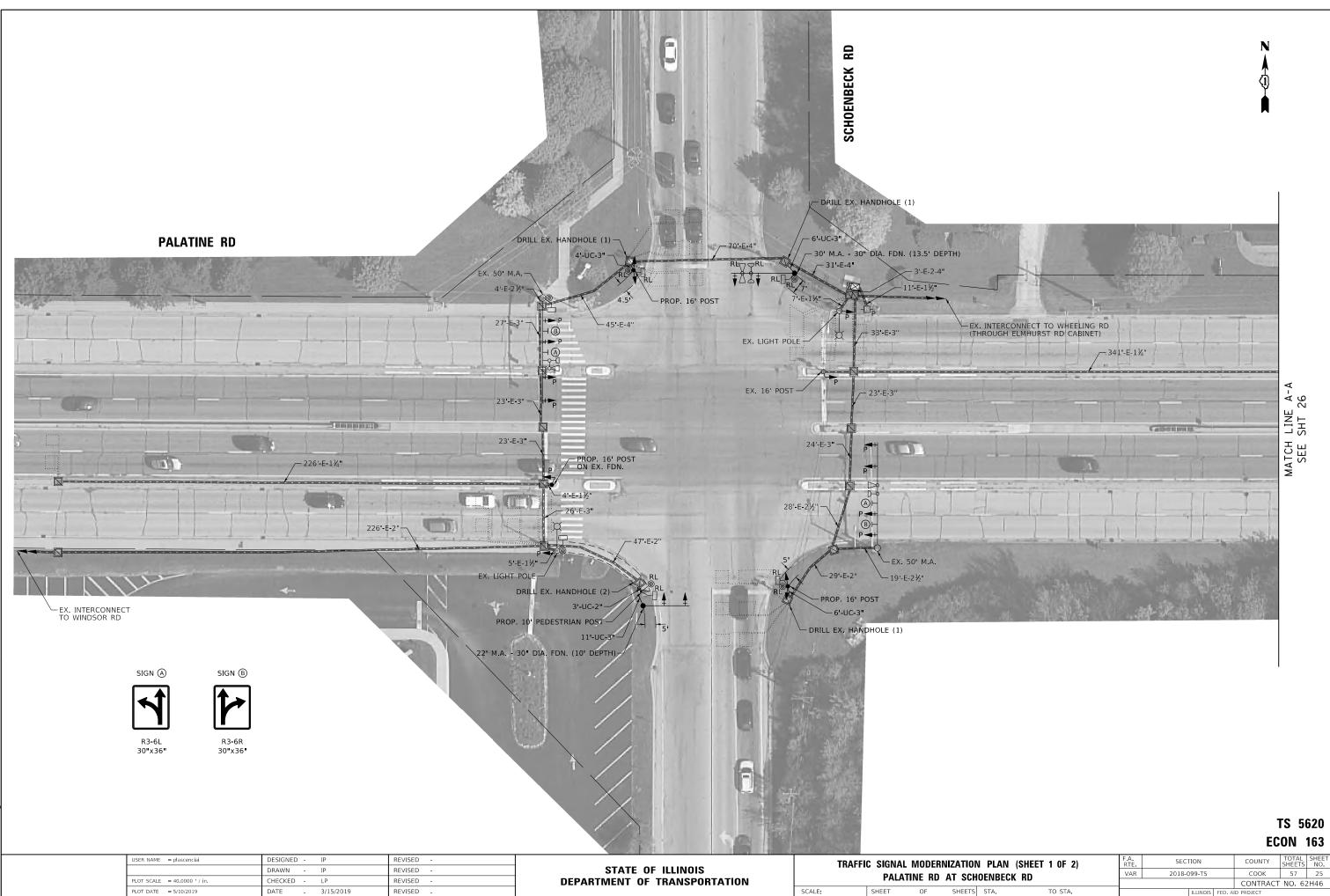


POST & FDN. V RLRL

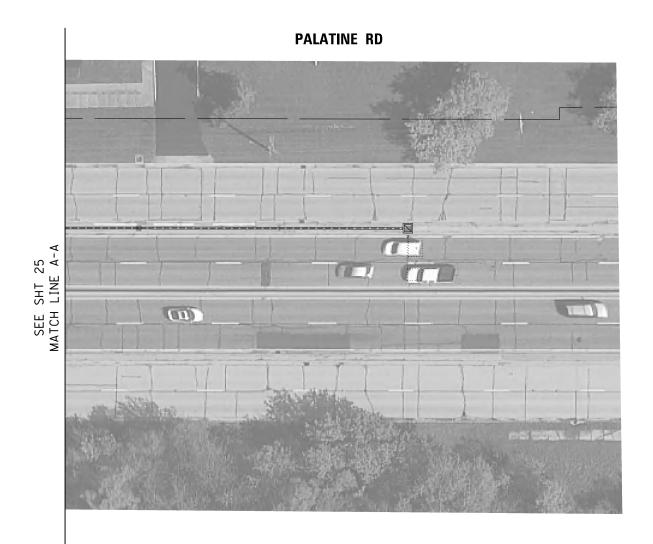


PL	USER NAME = plascenciai	DESIGNED - IP DRAWN - IP	REVISED - REVISED -	STATE OF ILLINOIS		TRAFF			
	PLOT SCALE = 40.0000 / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION		PALAIII	NE RD AT	SCHU	ENE
	PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF S	SHEETS	STA.

ENBECK RD		VAR	2018-0	99-TS		СООК	57	24
						CONTRACT	NO. 62	2H46
STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



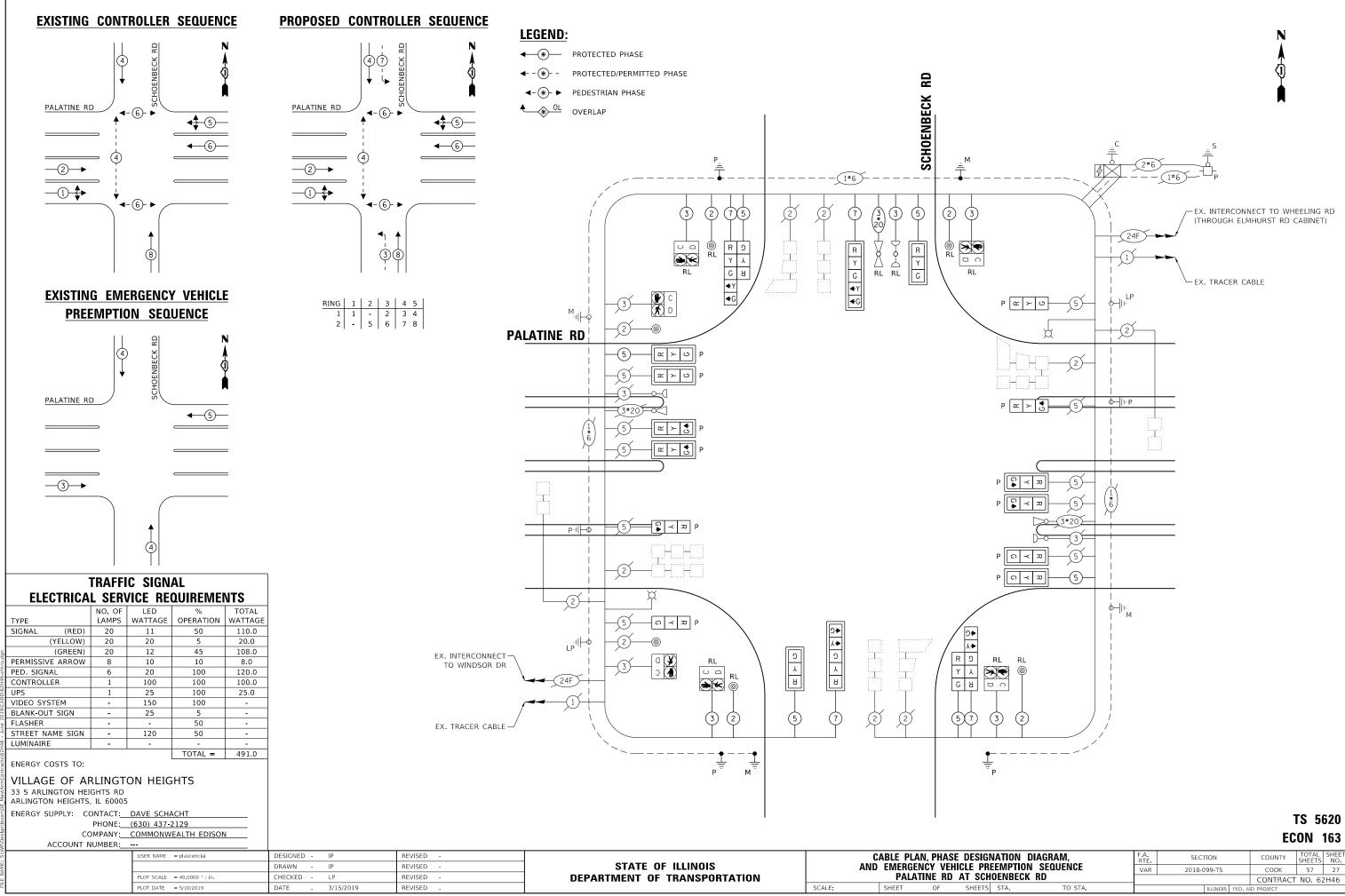
ON	I PLAN (SHEET 1 OF 2)	F.A. RTE	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
гμ	HOENBECK RD			2018-0)99-TS		соок	57	25
511	ULINDLUK	ND					CONTRACT	NO. 62	2H46
ГS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



USER NAME = plascenciai	DESIGNED -	IP	REVISED -		TBAFF	C SIGNAL	MODER	NIZATION PLAN (SHEET 2 OF 2)	F.A. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN -	IP	REVISED -	STATE OF ILLINOIS				-		VAR	2018-099-TS	соок	57 26
PLOT SCALE = 40.0000 ' / in.	CHECKED -	LP	REVISED -	DEPARTMENT OF TRANSPORTATION		PALAI	INE KU	AT SCHOENBECK	KD			CONTRACT	NO. 62H46
PLOT DATE = 5/10/2019	DATE -	3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	ID PROJECT	



TS 5620 ECON 163



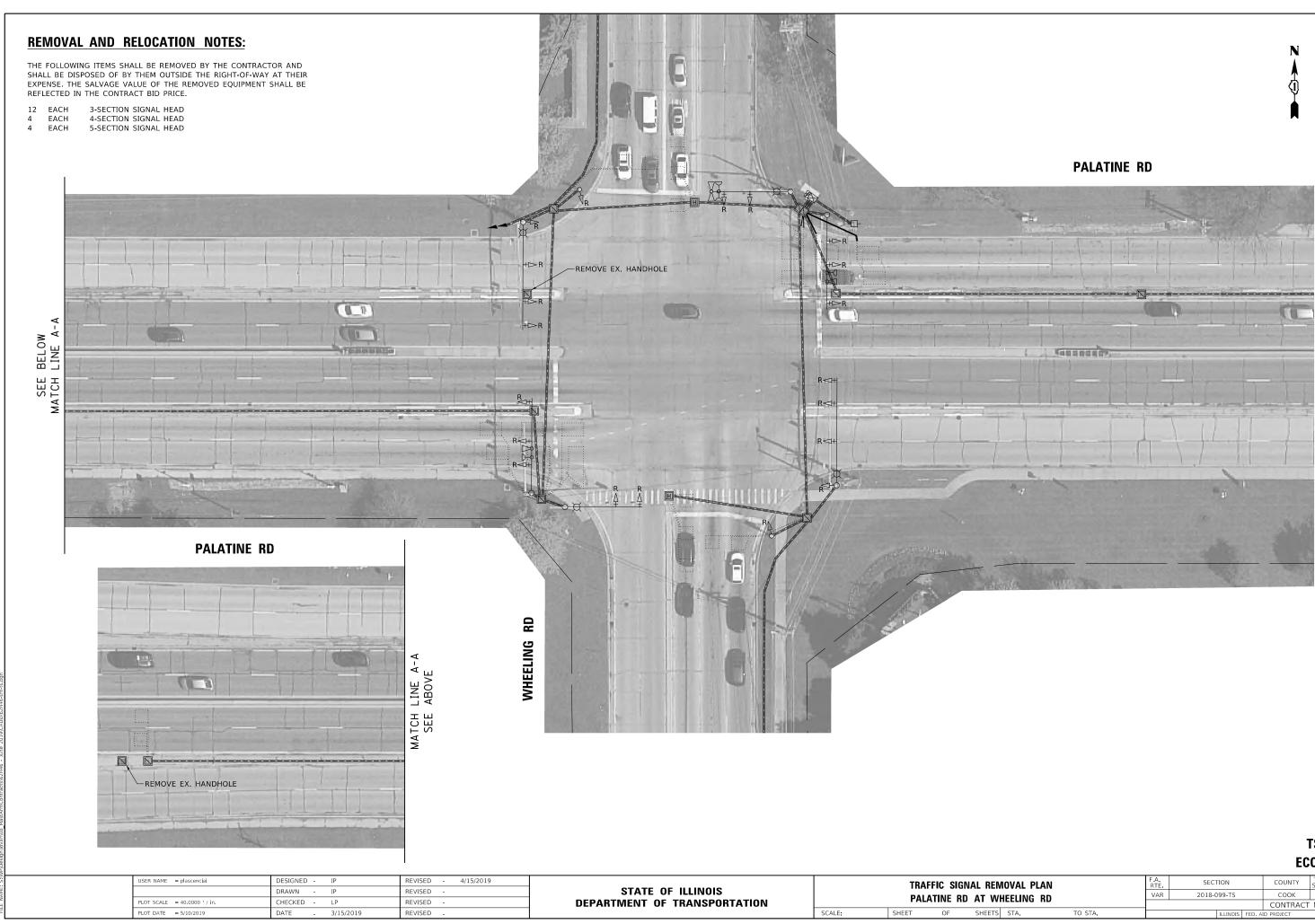
	EMPTION SEQU	JENCE	VAR	2018-0)99-TS		СООК	57	27
СH	OENBECK RD						CONTRACT	NO. 62	2H46
TS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	30
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	27
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	821
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	955
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,334
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	917
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	90
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	4
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	4
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,740
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	118
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
REMOVE AND REPLACE ANCHOR BOLTS	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4

USER NAME = plascenciai	DESIGNED -	IP	REVISED -			\$			ANTITIES		F.A. BTE	SECTION	COUNTY	TOTAL	- SHEET
	DRAWN -	IP	REVISED -	STATE OF ILLINOIS					OENBECK RD		VAR	2018-099-TS	соок	57	28
PLOT SCALE = 40.0000 ' / in.	CHECKED -	LP	REVISED -	DEPARTMENT OF TRANSPORTATION		PALA		AI SUF	UENBECK KL				CONTRAC	T NO. F	62H46
PLOT DATE = 5/10/2019	DATE -	3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FI	D. AID PROJECT		

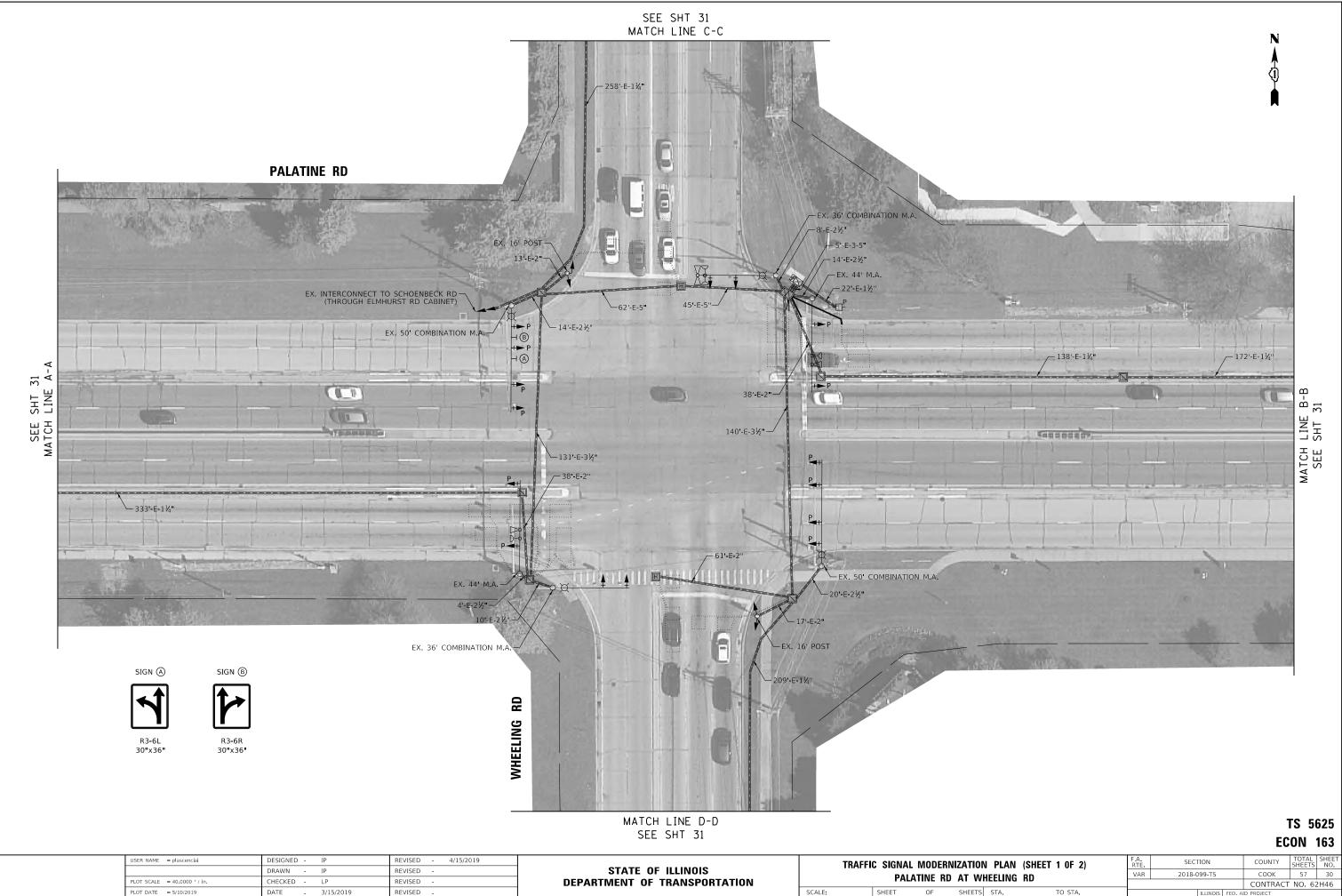
TS 5620 ECON 163





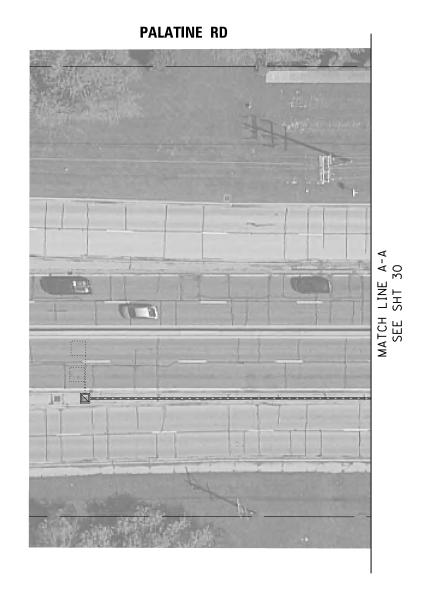
TS 5625 ECON 163

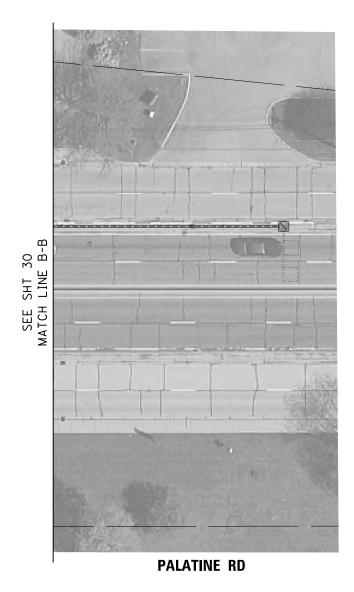
MOVAL	PLAN	F.A. RTE	SECT	FION		COUNTY	TOTAL SHEETS	SHEET NO.
VHEELING RD		VAR	2018-0	99-TS		СООК	57	29
						CONTRACT	NO. 62	2H46
IS STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		



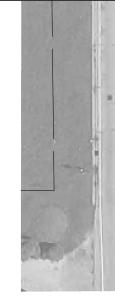
OF SHEETS SHEET

ON P	PLAN (SHEET	1 OF 2)	F.A. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
NHEE	N PLAN (SHEET 1 OF 2) /HEELING RD		VAR	2018-0	99-TS		СООК	57	30
VIILL							CONTRACT	NO. 62	2H46
rs st	Ά.	TO STA.			ILLINOIS	FED, AI	D PROJECT		





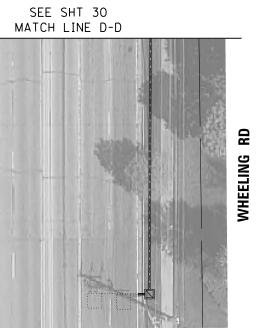




USER NAME = plascenciai	DESIGNED -	IP	REVISED - 4/15/2019		TRAFFI	C SIGNAL	MODER	NIZATION	I PLAN (S	SHEET 2 OF 2)	F.A. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN -	IP	REVISED -	STATE OF ILLINOIS		DAL	ATINE DI	א ה	HEELING R	, ,	VAR	2018-099-TS	соок	57 31
PLOT SCALE = 40.0000 / in.	CHECKED -	LP	REVISED -	DEPARTMENT OF TRANSPORTATION		FAL					_		CONTRACT	NO 62H46
PLOT DATE = 5/10/2019	DATE -	3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

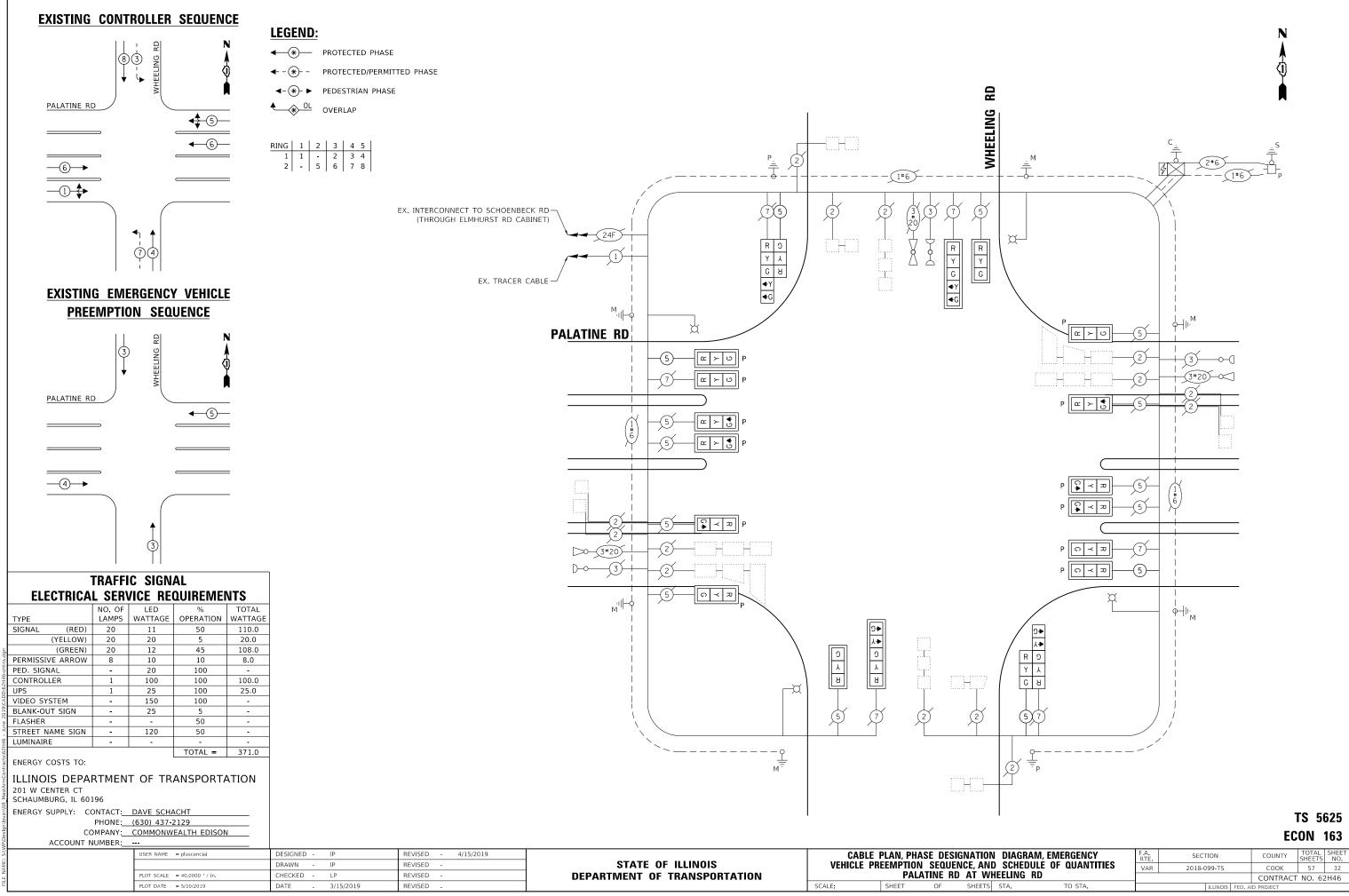
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MATCH LINE C-C SEE SHT 30



TS 5625 ECON 163

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ND SCHEDULE OF QUANTITIES Wheeling RD		VAR	2018-0	99-TS		соок	57	32	
W	IEELING KD						CONTRACT	NO. 62	2H46
TS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	796
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	16
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	800
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
TEMPORARY INFORMATION SIGNING	SQ FT	51.4

USER NAME = plascenciai	DESIGNED -	IP	REVISED - 4/15/2019			\$	CHEDIIII	E OF QUANTITIES		F.A. BTE	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	IP	REVISED -	STATE OF ILLINOIS						VAR	2018-099-TS	соок	57	33
PLOT SCALE = 40.0000 / in.	CHECKED -	LP	REVISED -	DEPARTMENT OF TRANSPORTATION		PAL	ATINE RI	D AT WHEELING RD				CONTRACT	NO. 621	H46
PLOT DATE = 5/10/2019	DATE -	3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

TS 5625 ECON 163

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 ALUMINUM MAST ARM ASSEMBLY AND POLE 3-SECTION SIGNAL HEAD
- 8 EACH
- 8 EACH 5-SECTION SIGNAL HEAD

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES AND POLES, AND WILL BE PAID UNDER THE PAY ITEM RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT:

CONFIRMATION BEACON LIGHT DETECTOR EACH 3

- 3 EACH
- 6 EACH STREET NAME SIGN PANEL

US RTE 14 (MINER ST)

01

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Ē

MOVE EX. M.A. & FD REMOVE EX. M.A. & FDN. -

MORTHNEST HMM

REMOVE EX. HANDHOLE

RAND

REMOVE EX. M.A. & FDN.

FD

NOTES:

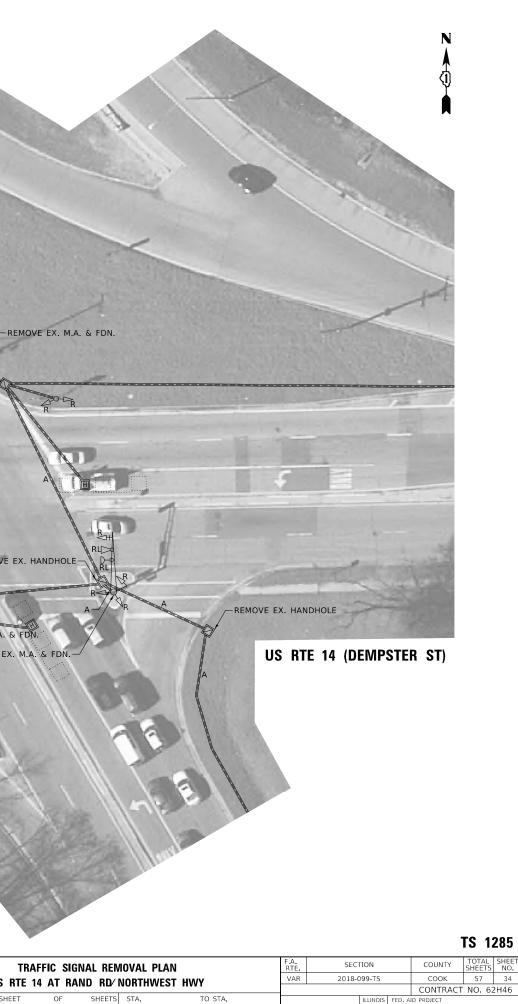
1. PULL BACK THE EVP CABLE AND THE LEAD-IN CABLE FOR THE SOUTHEASTBOUND DETECTOR LOOPS TO THIS HANDHOLE. REINSTALL THE CABLES THROUGH THE NEW CONDUIT SYSTEM.

-	USER NAME = plascenciai	DESIGNED - IP DRAWN - IP	REVISED - REVISED -	STATE OF ILLINOIS	TRAFFIC SIGNAL REMO US RTE 14 AT RAND RD/ NO					
	PLOT SCALE = 40.0000 / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION		US RIE 14	AI KA	ND RD/ NO		
	PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS		

SEE NOTE 1-

REMOVE EX. HANDHOLE-

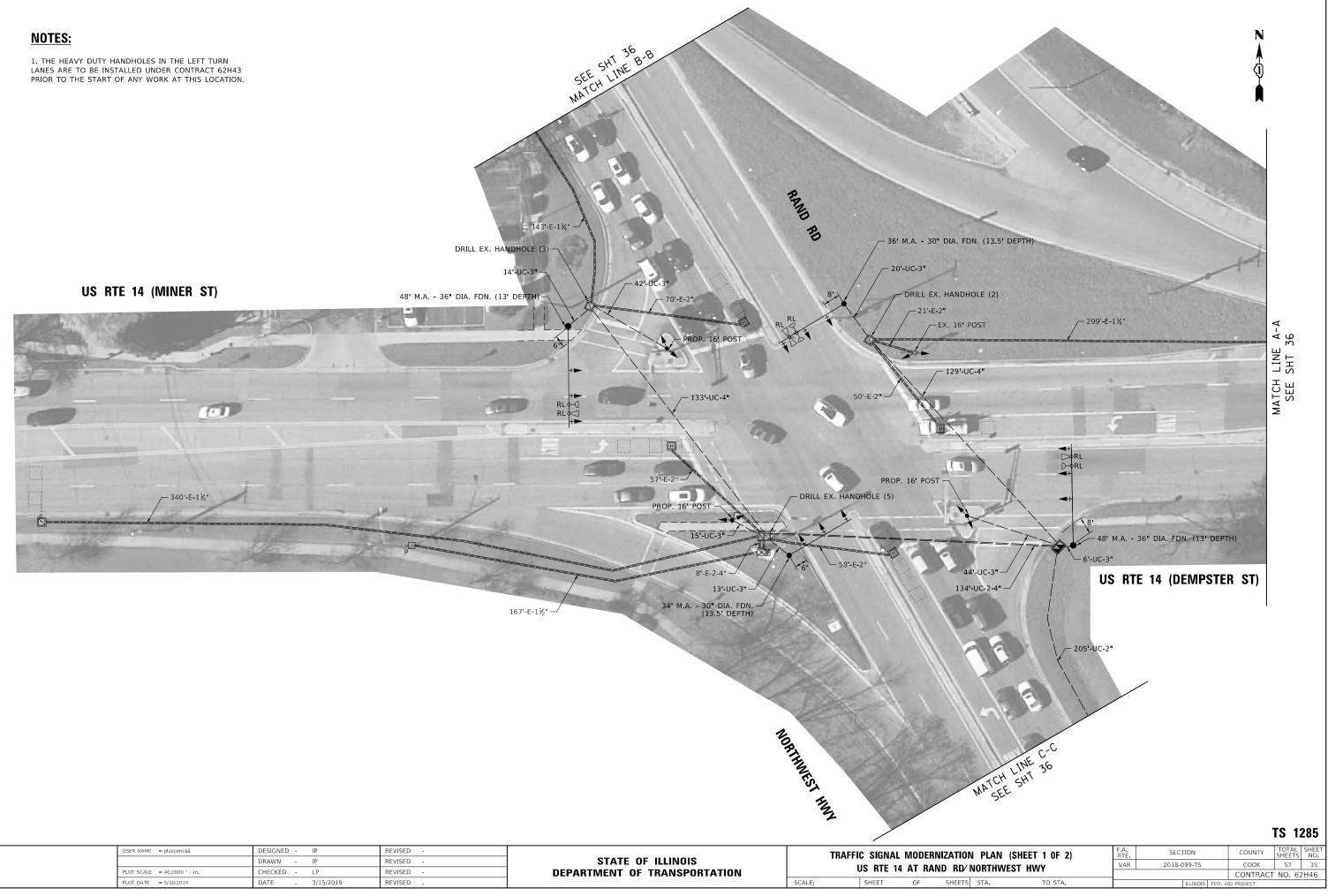
1.0



TS 1285

SHEE NO.

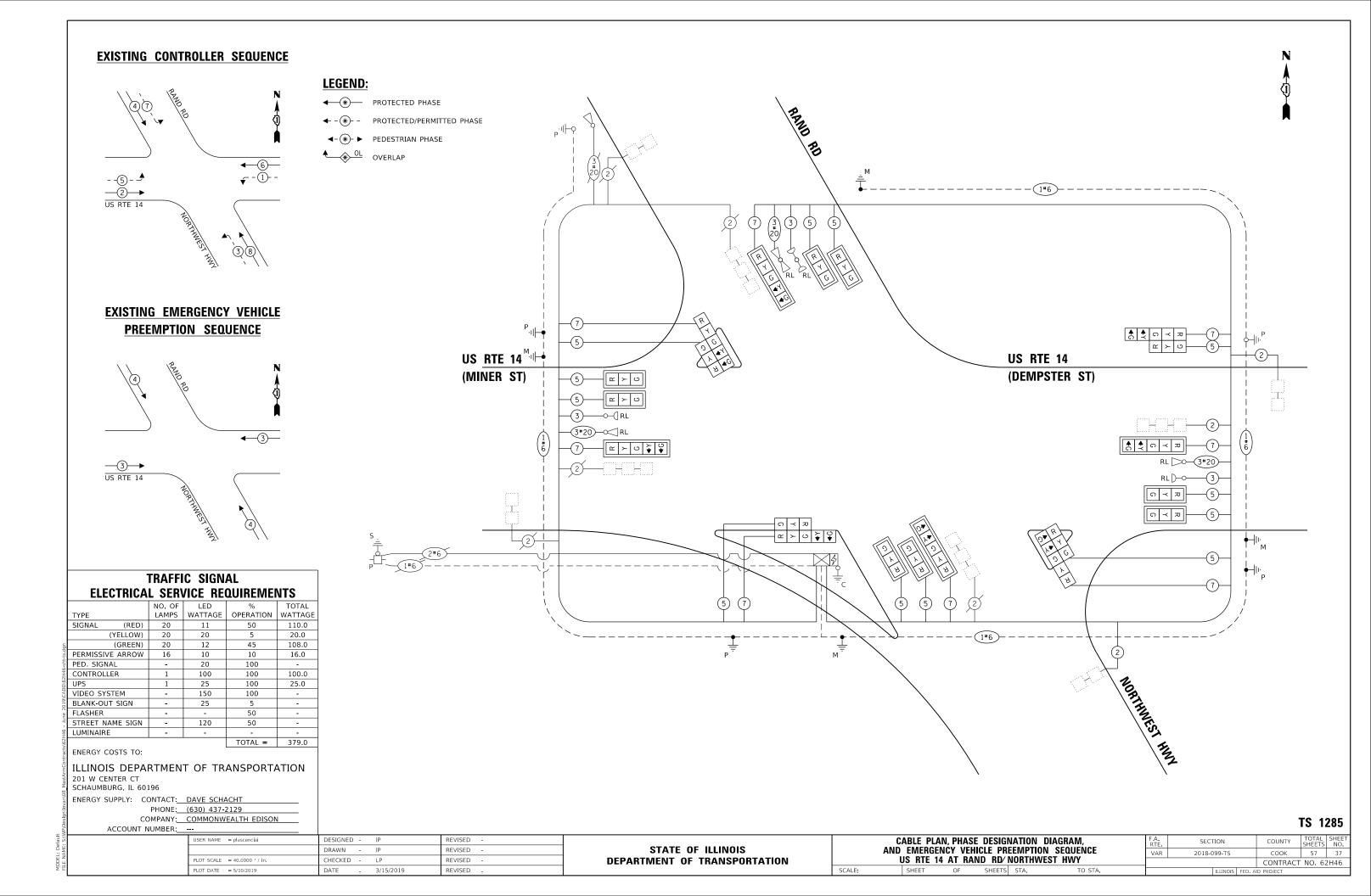
CONTRACT NO. 62H46 TO STA.



D/ NORTHWEST HWY		VAR	2018-0	99-TS		СООК	57		35	
						CONTRACT	NO.	62	H46	
ETS	STA.	TO STA.	ILLIN			FED. A	ID PROJECT			



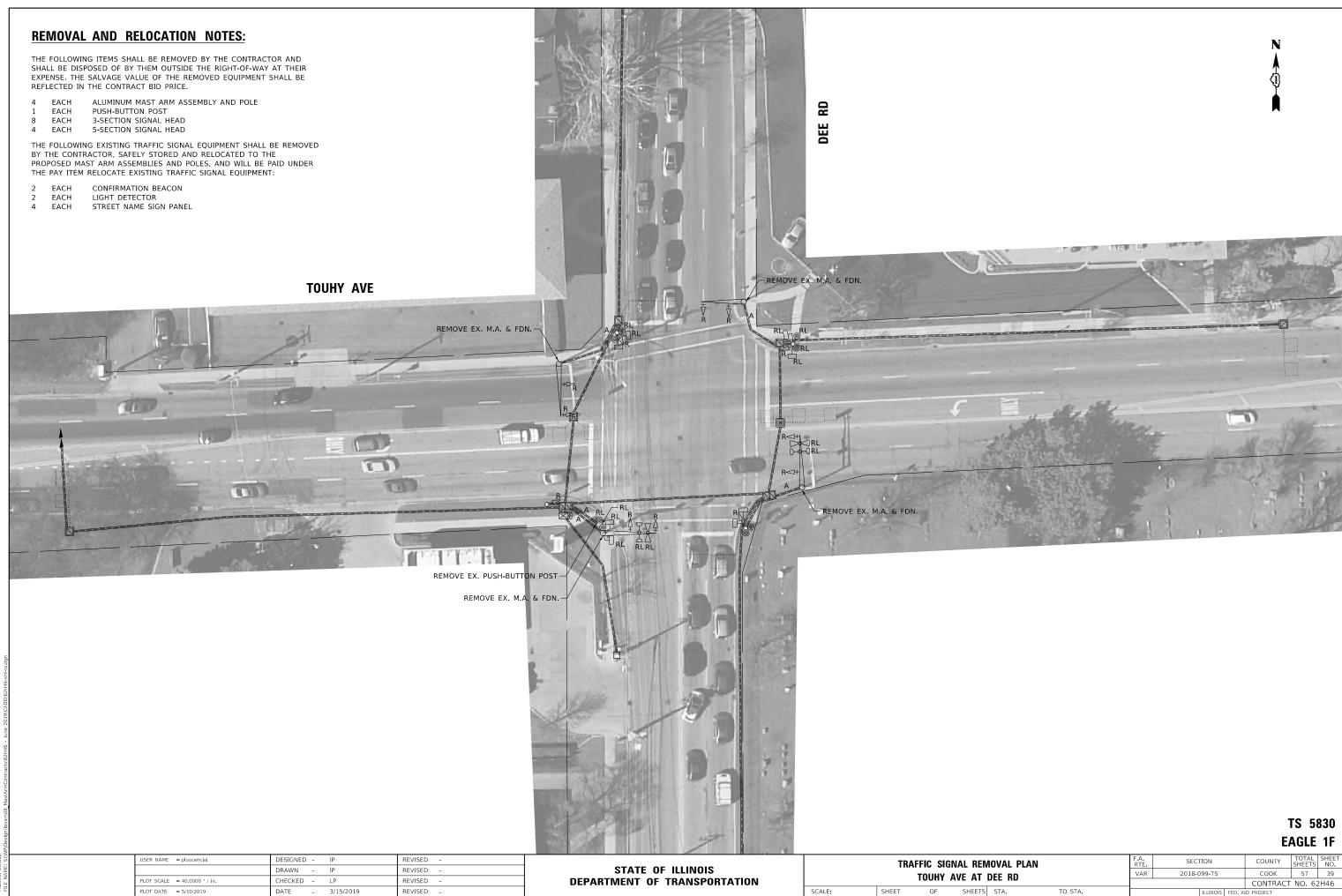
	USER NAME = plascenciai	DESIGNED - IP DRAWN - IP	REVISED - REVISED -	STATE OF ILLINOIS	TRAFFIC SIGNAL MODERNIA				
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION	l I	JS RTE 14	AT RAND		
	PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF		



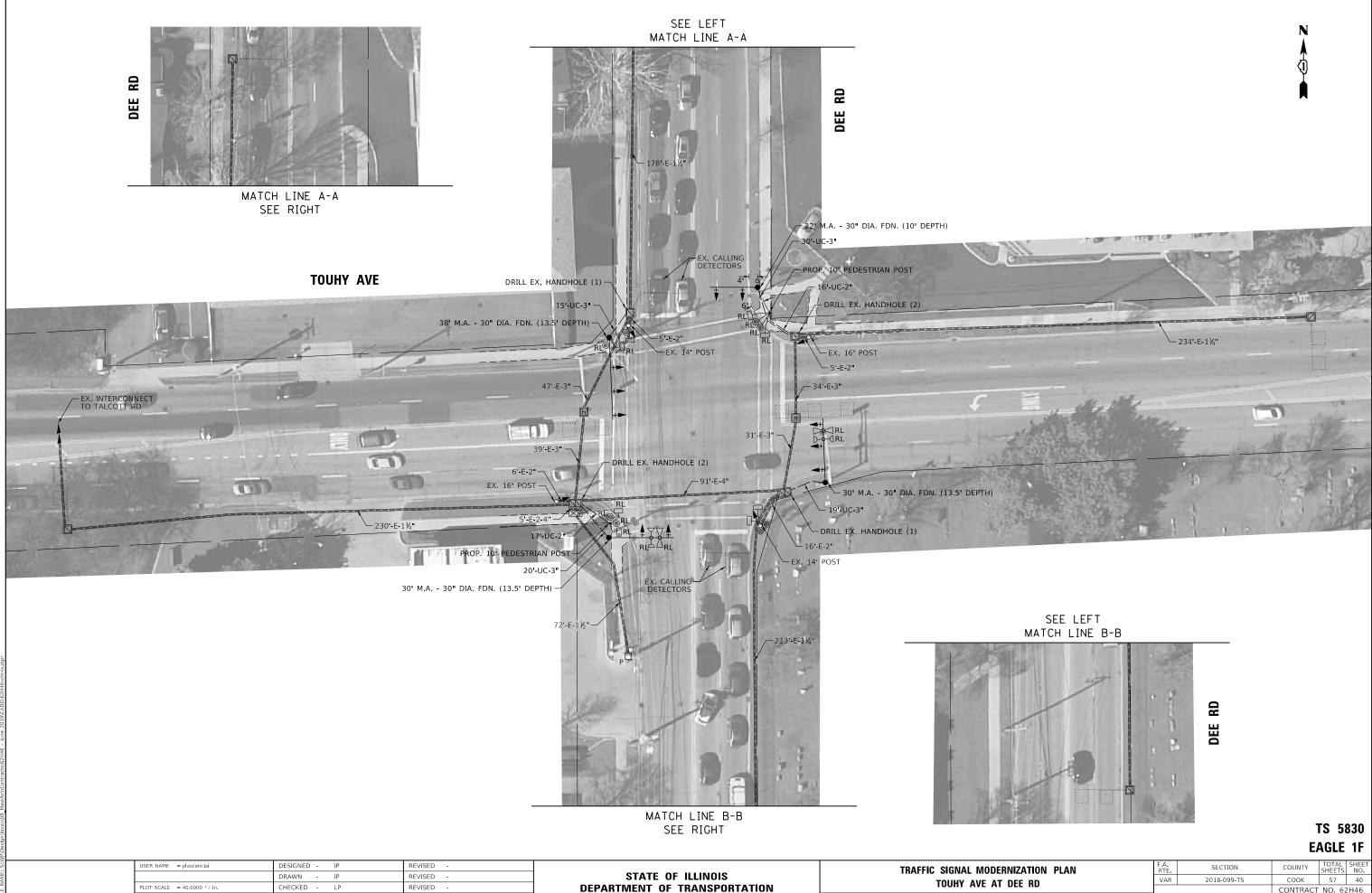
ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	205
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	154
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	530
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	882
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,695
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,835
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,340
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	870
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26.0
DRILL EXISTING HANDHOLE	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,600
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	882
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

-	USER NAME = plascenciai	DESIGNED - IP	REVISED -				SCHEDU	JLE OI	F OUA	NTITIES		F.A. RTE	SECTION	COUNTY	TOTAL SHEET!	. SHEET S NO.
		DRAWN - IP	REVISED -	STATE OF ILLINOIS							T 104/07	VAR	2018-099-TS	СООК	57	38
	PLOT SCALE = 40.0000 / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION		US RIE	14 AI K	AND		ORTHWES				CONTRAC	T NO. F	62H46
	PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF	S	SHEETS	STA.	TO STA.		ILLINOIS F	D. AID PROJECT		

TS 1285



EM	OVAL PLAN		F.A. RTE	SEC	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
r 1	DEE RD		VAR	2018-0)99-TS		СООК	57	39
						CONTRACT	NO. 62	2H46	
ГS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



SCALE:

SHEET

PLOT DATE = 5/10/2019

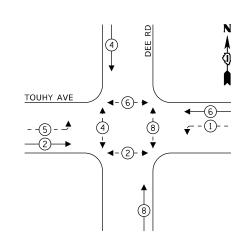
DATE

- 3/15/2019

REVISED

C SIGNAL MODER	NIZATION	PLAN	F.A. RTE	SEC	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
TOUHY AVE AT	VAR	VAR 2018-099-TS				57	40		
		_				CONTRAC	T NO. 62	2H46	
OF SHEETS STA. TO STA.					ILLINOIS	FED, AI	D PROJECT		

EXISTING CONTROLLER SEQUENCE



LEGEND:

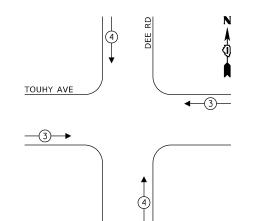
PROTECTED PHASE

← - (*)- - PROTECTED/PERMITTED PHASE

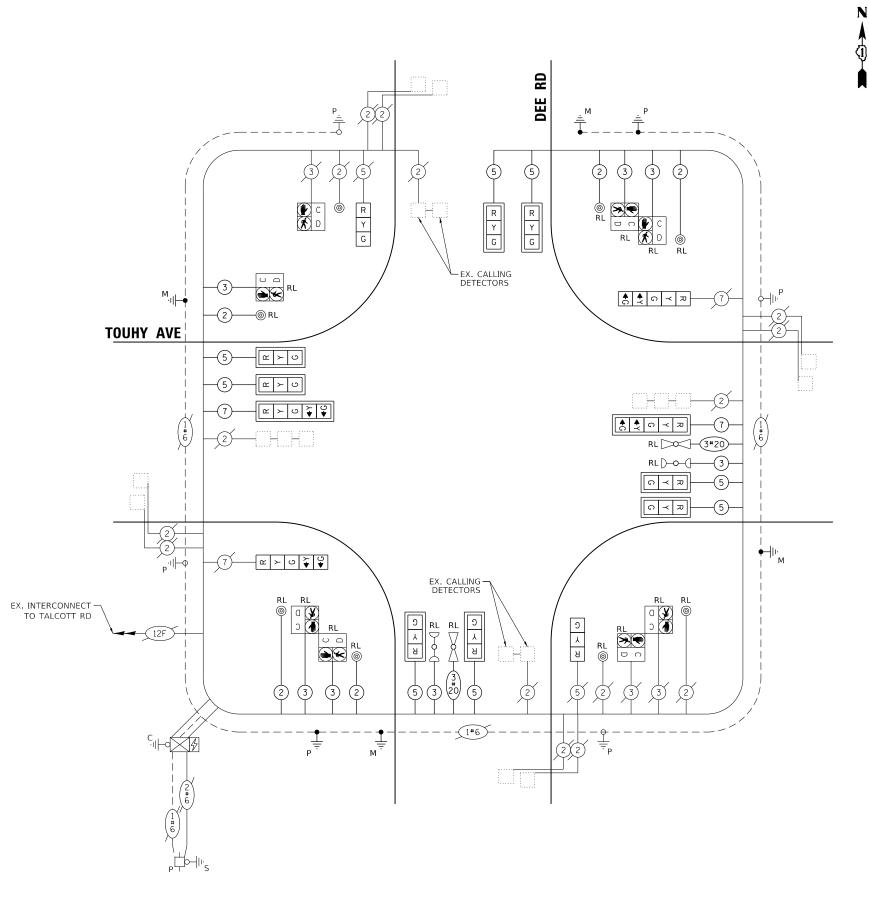
◄- (*)- ► PEDESTRIAN PHASE

♦<u>OL</u> OVERLAP





· ·	TRAFFI	C SIGN	AL	
ELECTRICA	L SERV	ICE RE	QUIREME	NTS
	NO. OF	LED	%	TOTAL
ТҮРЕ	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	459.6
ENERGY COSTS TO:				
ILLINOIS DEPA	RTMEN	T OF TR	ANSPORT	ATION
201 W CENTER CT SCHAUMBURG, IL 60	196			
ENERGY SUPPLY: C	ONTACT:	TERRI BLEC	СК	
	PHONE:	(847) 816-	5239	
CC	DMPANY:	COMMONW	EALTH EDISON	J



VP\De	ACCOUNT NUMBER									E <i>F</i>	AGLE IF
N S		USER NAME = plascenciai	DESIGNED - IP	REVISED -			ABLE PLAN, PHASE DESIGNATION DIAGRAM,	F.A. BTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
AME			DRAWN - IP	REVISED -	STATE OF ILLINOIS	AND	EMERGENCY VEHICLE PREEMPTION SEQUENCE	VAR	2018-099-TS	соок	57 41
Ч		PLOT SCALE = 40.0000 ' / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION		TOUHY AVE AT DEE RD			CONTRACT	NO. 62H46
Ē		PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. /	AID PROJECT	

TS 5830 EAGLE 1F

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	33
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	84
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	714
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,029
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,466
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	397
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	210
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	50.5
DRILL EXISTING HANDHOLE	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	5
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	5
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,580
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	295
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	8

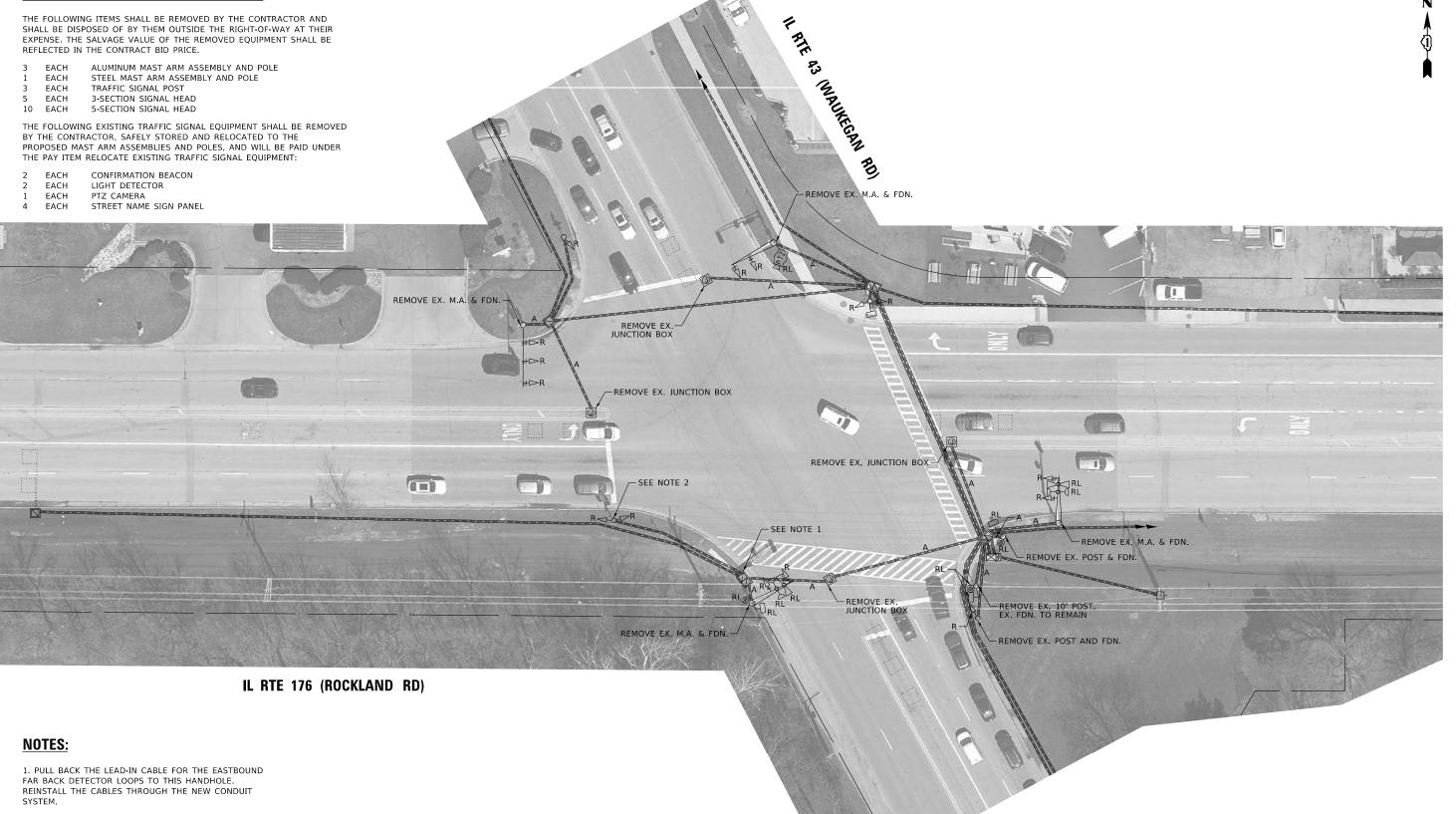
USER NAME = plascenciai	DESIGNED - IP	REVISED -			9	CHEDULI	E OF QUANTITIES		F.A. BTE	SECTION	COUNTY	TOTAL	SHEET
	DRAWN - IP	REVISED -	STATE OF ILLINOIS						VAR	2018-099-TS	соок	57	42
PLOT SCALE = 40.0000 / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION			TUUHY	AVE AT DEE RD				CONTRACT	NO. 62	2H46
PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

TS 5830 EAGLE 1F

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.

BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES AND POLES, AND WILL BE PAID UNDER

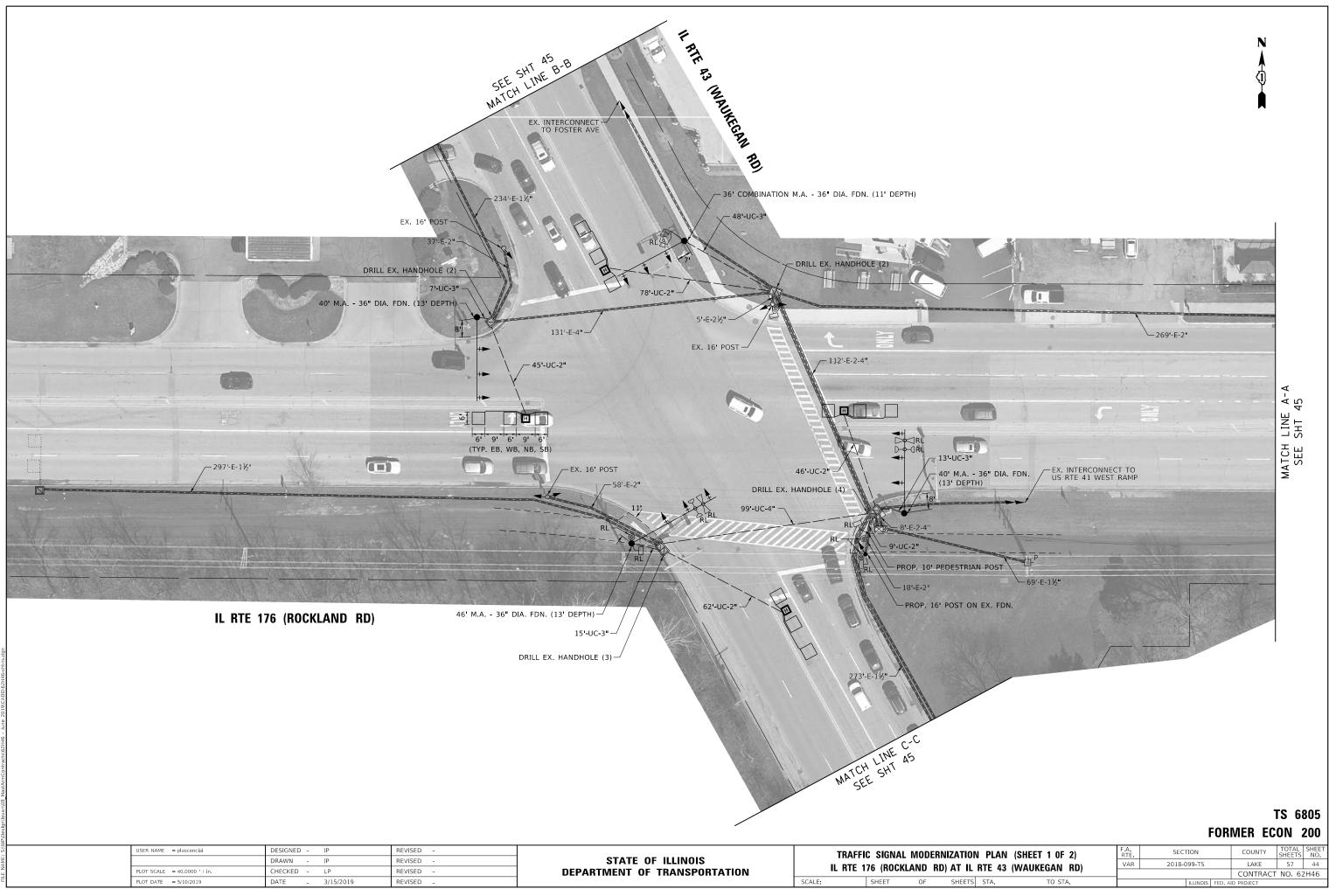


2. REMOVE EXISTING SHARED MULTI-CONDUCTOR CABLE AND REPLACE IT WITH SEPARATE 5 CONDUCTOR AND 7 CONDUCTOR CABLES THROUGH THE NEW CONDUIT SYSTEM. SEE CABLE PLAN.

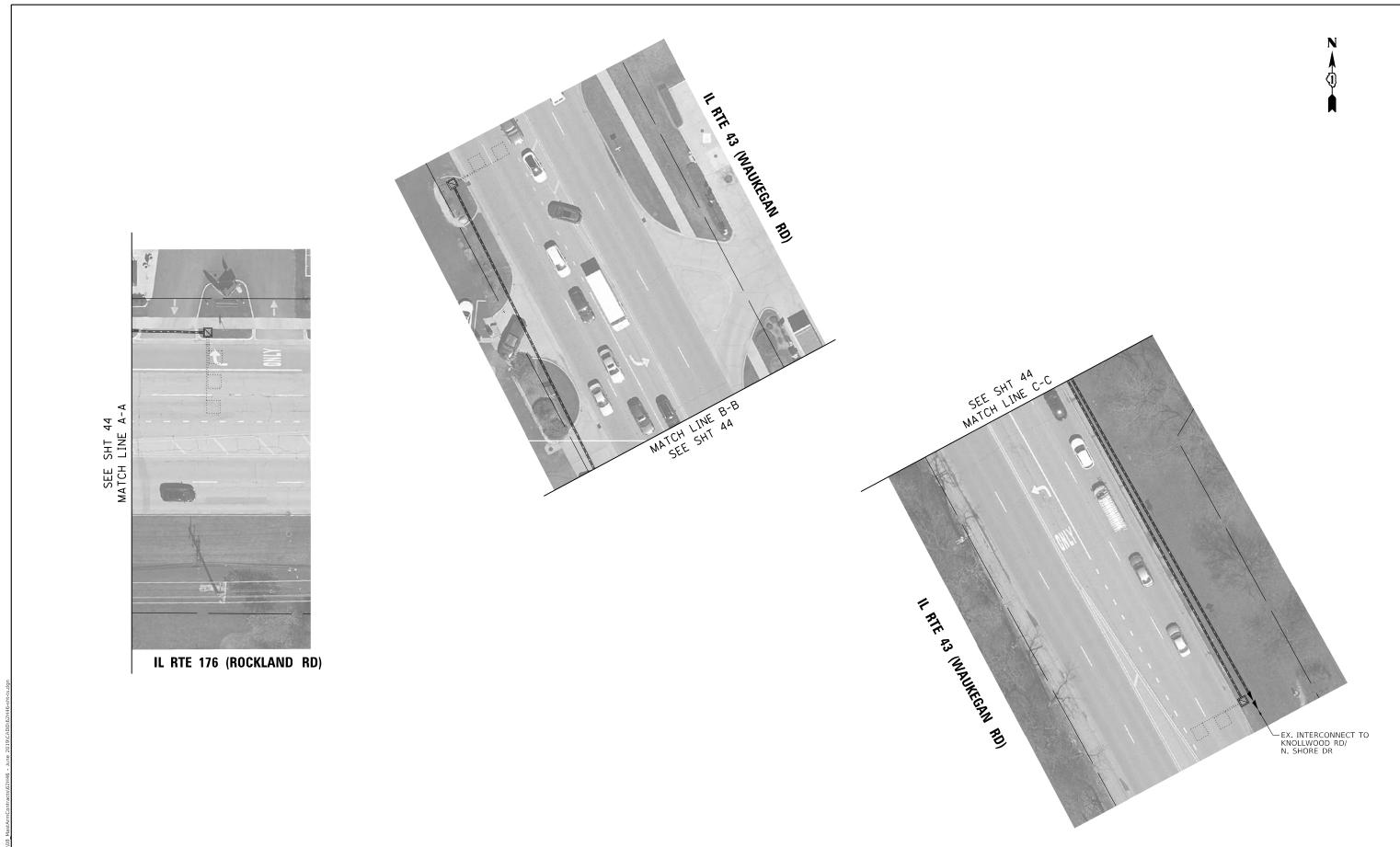
USER NAME = plascenciai	DESIGNED -	IP	REVISED -			TRA	FFIC SIG	NAL REMO	OVAL PLAN	1	F.A. BTE	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN -	IP	REVISED -	STATE OF ILLINOIS						AUKEGAN RD)	VAR	2018-099-TS	LAKE	57	43
PLOT SCALE = 40.0000 ' / in.	CHECKED -	LP	REVISED -	DEPARTMENT OF TRANSPORTATION					NIE 43 (VVA	AUKEGAN ND			CONTRACT	F NO. 6	2H46
PLOT DATE = 5/10/2019	DATE -	3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED	AID PROJECT		

TS 6805 FORMER ECON 200

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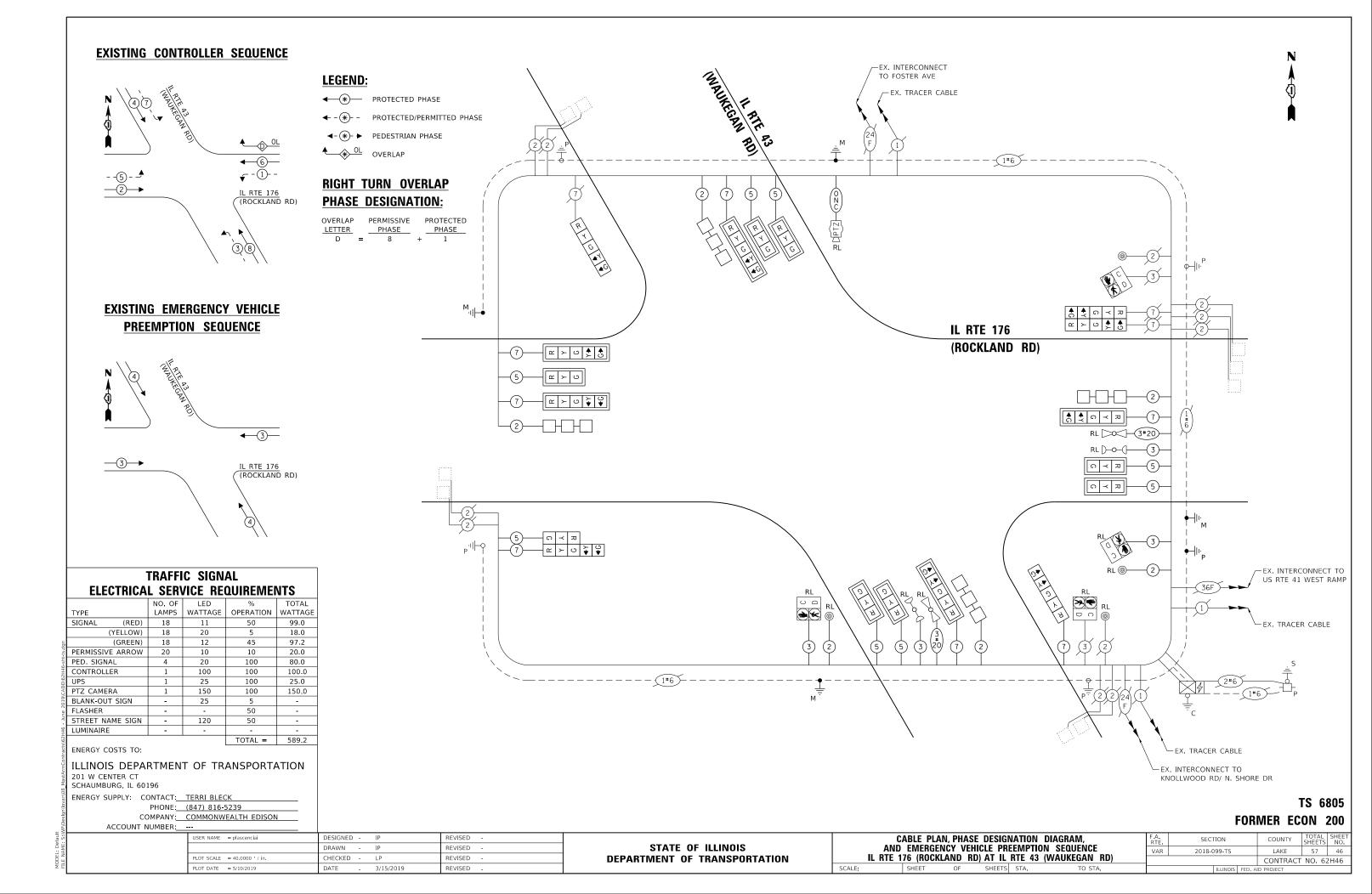


ON PLAN (SHEET 1 OF 2)	F.A. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
L RTE 43 (WAUKEGAN RD)	VAR	2018-0	99-TS		LAKE	57	44
E ITE 43 (WAOREGAN TID)					CONTRACT	NO. 62	2H46
TS STA. TO STA.			ILLINOIS	FED. A	ID PROJECT		
IS STA. TO STA.			ILLINOIS	FED. A	ID PROJECT		



USER NAME = plascenciai	DESIGNED - IP	REVISED -		TRAFFI	C SIGNAL	. MODER	NIZATIO	N PL	AN (SHEET 2 OF 2)	F.A. RTE	SECTION	COUNT	Y TOTAL SHEET	L SHEET TS NO.
PLOT SCALE = 40.0000 ' / in	DRAWN - IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 1	76 (ROCK				43 (WAUKEGAN RD)	VAR	2018-099-TS	LAKE	57	45
PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET	OF	SHEETS	S STA	. TO STA.		ILLINOIS F	ED. AID PROJECT	ACT NO. 6	62H46

TS 6805 Former Econ 200



ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	240
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	83
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	99
HEAVY-DUTY HANDHOLE	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	214
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	550
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,653
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,570
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	870
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	180
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50.0
DRILL EXISTING HANDHOLE	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
DETECTOR LOOP, TYPE I	FOOT	390
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	3
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,900
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	885
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	328
OUTDOOR RATED NETWORK CABLE	FOOT	250
REMOVE EXISTING JUNCTION BOX	EACH	4
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
REMOVE AND REPLACE ANCHOR BOLTS	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4

USER NAME = plascenciai	DESIGNED - IP	REVISED -		SCHEDULE OF QUANTITIES				F.A. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.			
	DRAWN - IP	REVISED -	STATE OF ILLINOIS							43 (WAUKEGAN RD)	VAR	2018-099-TS	LAKE	57 47
PLOT SCALE = 40.0000 / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RTE 176 (ROCKLAND RD) AT IL RTE 43 (WAUKEGAN RD)					CONTRAC	T NO. 62H46				
PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET		OF	SHEETS	S STA.	TO STA.		ILLINOIS FED. AID PROJECT		

TS 6805 Former Econ 200

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.

- EACH ALUMINUM MAST ARM ASSEMBLY AND POLE PEDESTRIAN PUSH-BUTTON 3
- 7 EACH
- 4 EACH 3-SECTION SIGNAL HEAD 8 EACH 5-SECTION SIGNAL HEAD

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES AND POLES, AND WILL BE PAID UNDER THE PAY ITEM RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT:

EACH 2

CONFIRMATION BEACON LIGHT DETECTOR STREET NAME SIGN PANEL 2 EACH 3 EACH

REMOVE EX. M.A. & FDN.-

RD) ВАҮ RTE 131 (GREEN =

USER NAME = plascenciai	DESIGNED - IP	REVISED -			TR	AFFIC SI	GNAL REMOVAL P	PLAN	F.A. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN - IP	REVISED -	STATE OF ILLINOIS						VAR	2018-099-TS	LAKE	57 48
PLOT SCALE = 40.0000 / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION	ILNIC	70 (NUC	76 (ROCKLAND RD) AT IL RTE 131 (GREEN BAY RD)					CONTRACT	T NO. 62H46
PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS STA	TO STA.		ILLINOIS FEE	D. AID PROJECT	

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REMOVE EX. HANDHOLE

-REMOVE EX. M.A. & FDN.

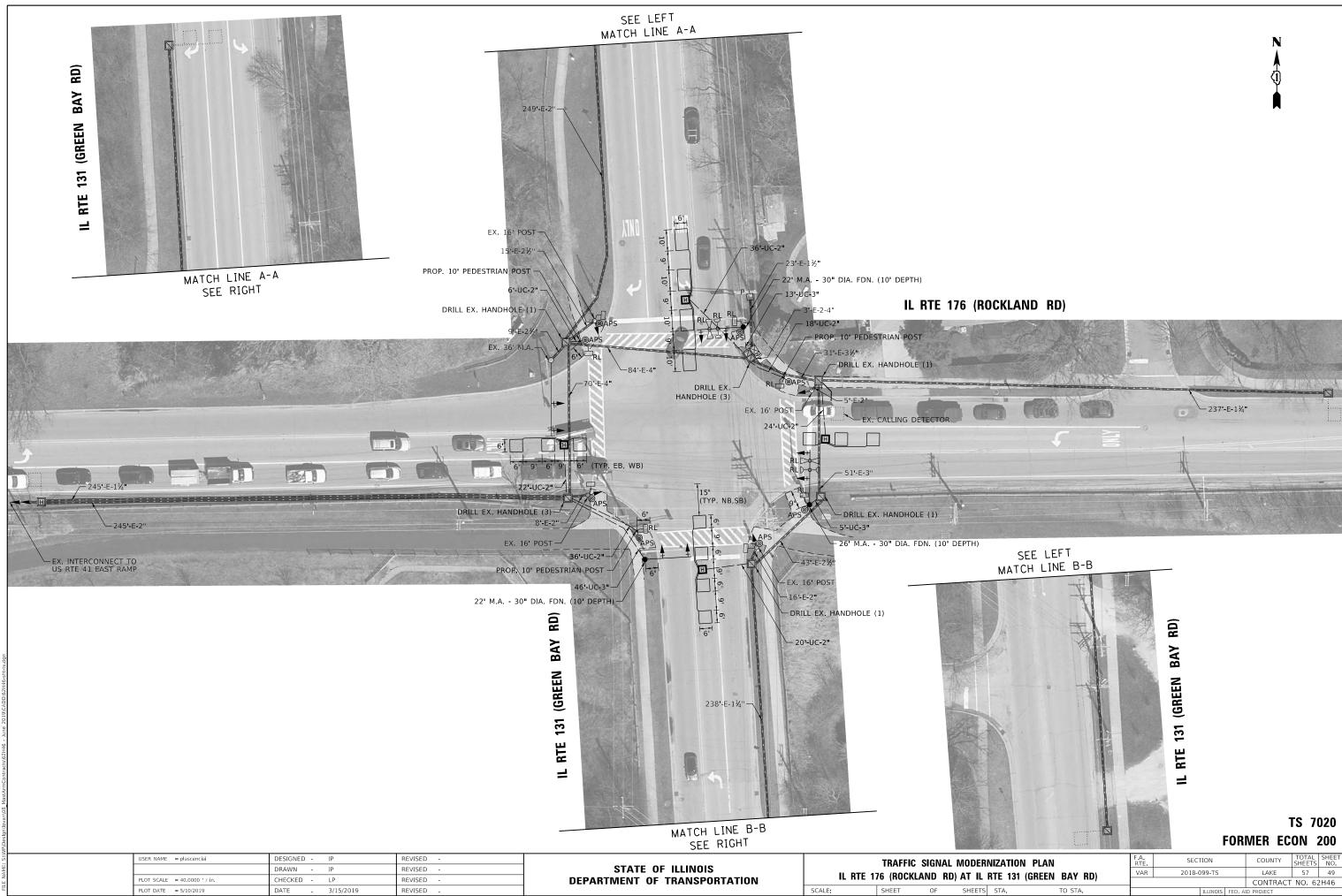
REMOVE EX. M.A. & FDN.

IL RTE 176 (ROCKLAND RD)



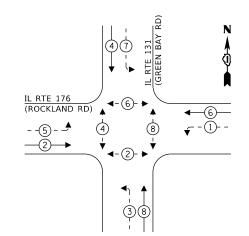
TS 7020 FORMER ECON 200

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L RTE 131 (GREEN BAY RD)				2018-099-TS	LAKE	57	49	
						CONTRACT	NO. 62	2H46
٢S	STA.	TO STA.		ILLINOI	5 FED. A	ID PROJECT		

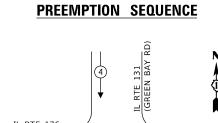
EXISTING CONTROLLER SEQUENCE



LEGEND:

← (*) PROTECTED PHASE

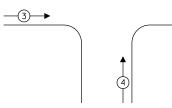
- ← (*)- PROTECTED/PERMITTED PHASE
- ◄- (*)- ► PEDESTRIAN PHASE
- OVERLAP



←3—

EXISTING EMERGENCY VEHICLE





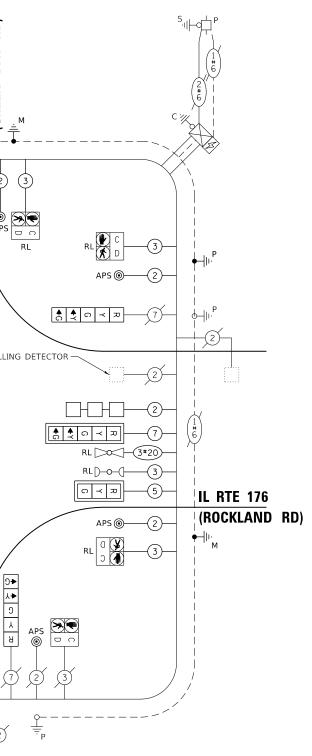
	TRAFF	C SIGN	AL								
ELECTRICA	AL SERV	VICE RE	QUIREME	NTS							
	NO. OF	LED	%	TOTAL							
ТҮРЕ	LAMPS	WATTAGE	OPERATION	WATTAGI							
SIGNAL (RED)	12	11	50	66.0							
(YELLOW)	12	20	5	12.0							
(GREEN)	12	12	45	64.8							
PERMISSIVE ARROW	16	10	10	16.0							
PED. SIGNAL	8	20	100	160.0							
CONTROLLER	1	100	100	100.0							
UPS	1	25	100	25.0							
VIDEO SYSTEM	-	150	100	-							
BLANK-OUT SIGN	-	25	5	-							
FLASHER	-	-	50	-							
STREET NAME SIGN	-	120	50	-							
LUMINAIRE	-	-	-	-							
			TOTAL =	443.8							
ENERGY COSTS TO:											
ILLINOIS DEPA 201 W CENTER CT	LINOIS DEPARTMENT OF TRANSPORTATION										
SCHALIMBURG II 60	196										

SCHAUMBURG, IL 60196 ENE

IERGY SUPPLY:	CONTACT:	TERRI BLECK
	PHONE:	(847) 816-5239
	COMPANY:	COMMONWEALTH EDISON
ACCOUN	T NUMBER	

		 ₽22	<u>1#6</u>	IL RTE 131 (GREEN BAY RD)
		G ◀Y		(3) (20) (20) (20) (20) (20) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
		● G		EX. CALLIN
EX. INTERCONNECT TO US RTE 41 EAST RAMP	2 - - - - - - - - - - - - -	 RL AP5		
		 		2

DESIGNED - IP	REVISED -		CABLE PLAN, PHASE DESIGNATION DIAGRAM,	F.A. SECTION	COUNTY TOTAL SHEET
DRAWN - IP	REVISED -	STATE OF ILLINOIS	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	VAR 2018-099-TS	LAKE 57 50
CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RTE 176 (ROCKLAND RD) AT IL RTE 131 (GREEN BAY RD)		CONTRACT NO. 62H46
DATE - 3/15/2019	REVISED -	SC.	ALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS FE	D. AID PROJECT
	DESIGNED IP DRAVN - IP CHECKED - LP DATE - 3/15/2019	DESIGNED IP REVISED - DRAWN - IP REVISED - CHECKED - LP REVISED - DATE - 3/15/2019 REVISED -	CHECKED - LP REVISED - DEPARTMENT OF TRANSPORTATION	DRAWN IP REVISED STATE OF ILLINOIS AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CHECKED LP REVISED DEPARTMENT OF TRANSPORTATION IL RTE 176 (ROCKLAND RD) AT IL RTE 131 (GREEN BAY RD)	DRAWN IP REVISED STATE OF ILLINOIS AND EMERGENCY VEHICLE PREEMPTION SEQUENCE NIL CHECKED LP REVISED DEPARTMENT OF TRANSPORTATION IL RTE 176 (ROCKLAND RD) AT IL RTE 131 (GREEN BAY RD) VAR 2018-099-TS



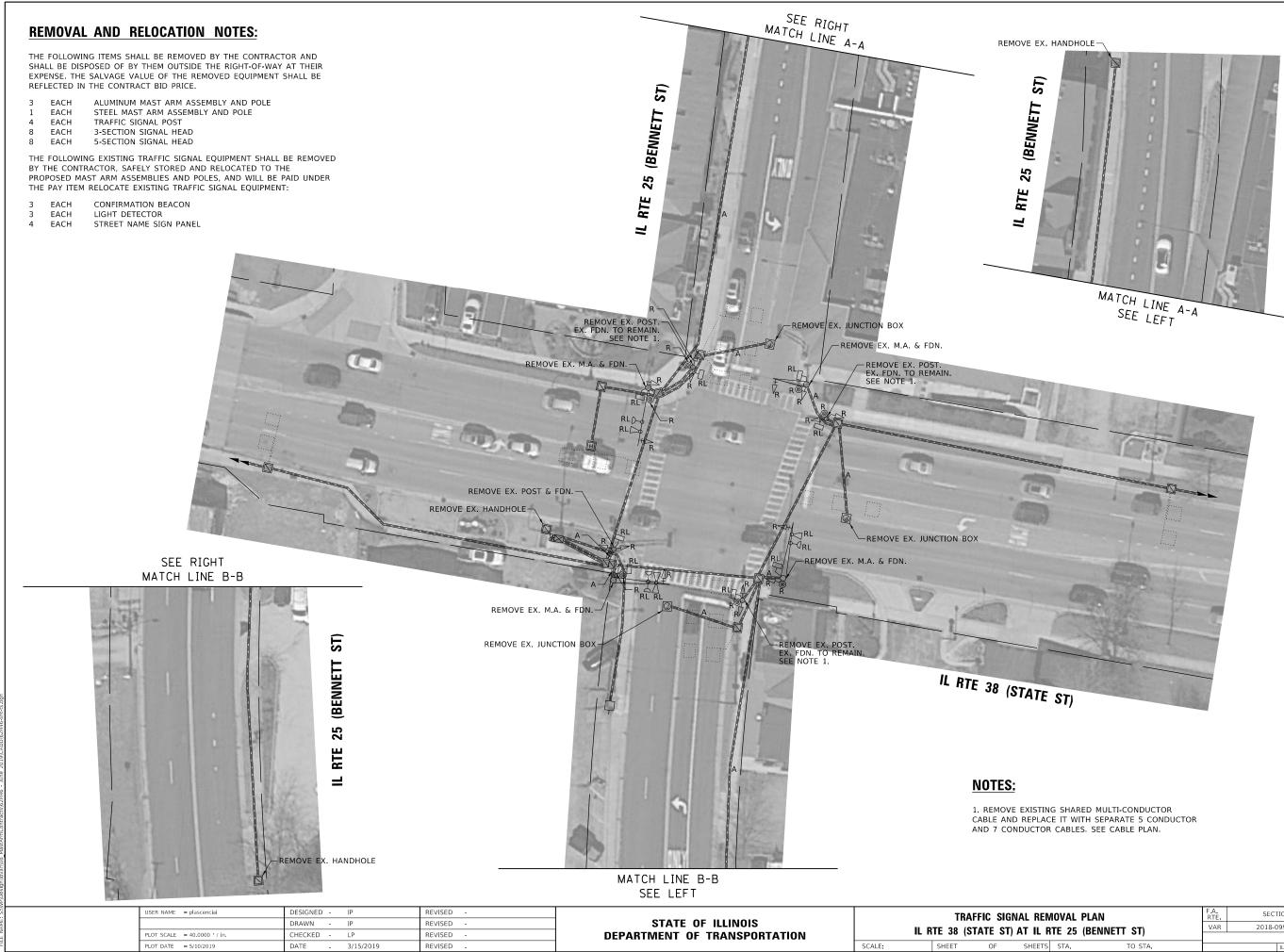
TS 7020 FORMER ECON 200

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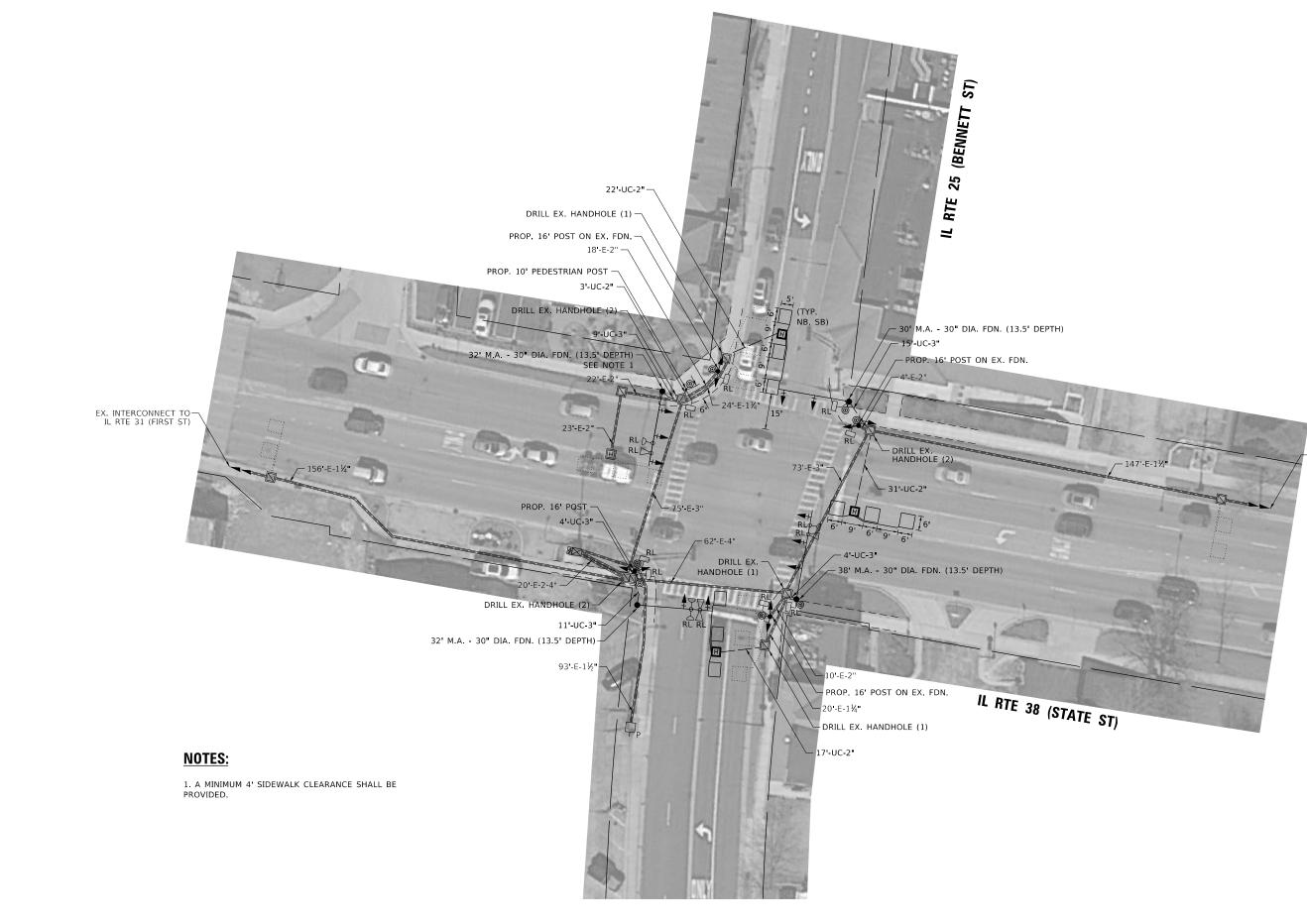
ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	162
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	64
HEAVY-DUTY HANDHOLE	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	611
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	884
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	504
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	534
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	570
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	200
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30.0
DRILL EXISTING HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
DETECTOR LOOP, TYPE I	FOOT	515
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	5
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	253
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	12

USER NAME = plascenciai	DESIGNED -	IP	REVISED -				SCHEDU	LE OF Q	UANTI	TES	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	IP	REVISED -	STATE OF ILLINOIS	и рт						VAR	2018-099-TS	LAKE	57	51
PLOT SCALE = 40.0000 ' / in.	CHECKED -	LP	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RT	E 1/6 (RUU	KLAND I	RD) AT IL		31 (GREEN BAY RD)			CONTRA	CT NO. 62	2H46
PLOT DATE = 5/10/2019	DATE -	3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEET	TS STA.	TO STA.		ILLINOIS	FED. AID PROJECT		

TS 7020 FORMER ECON 200



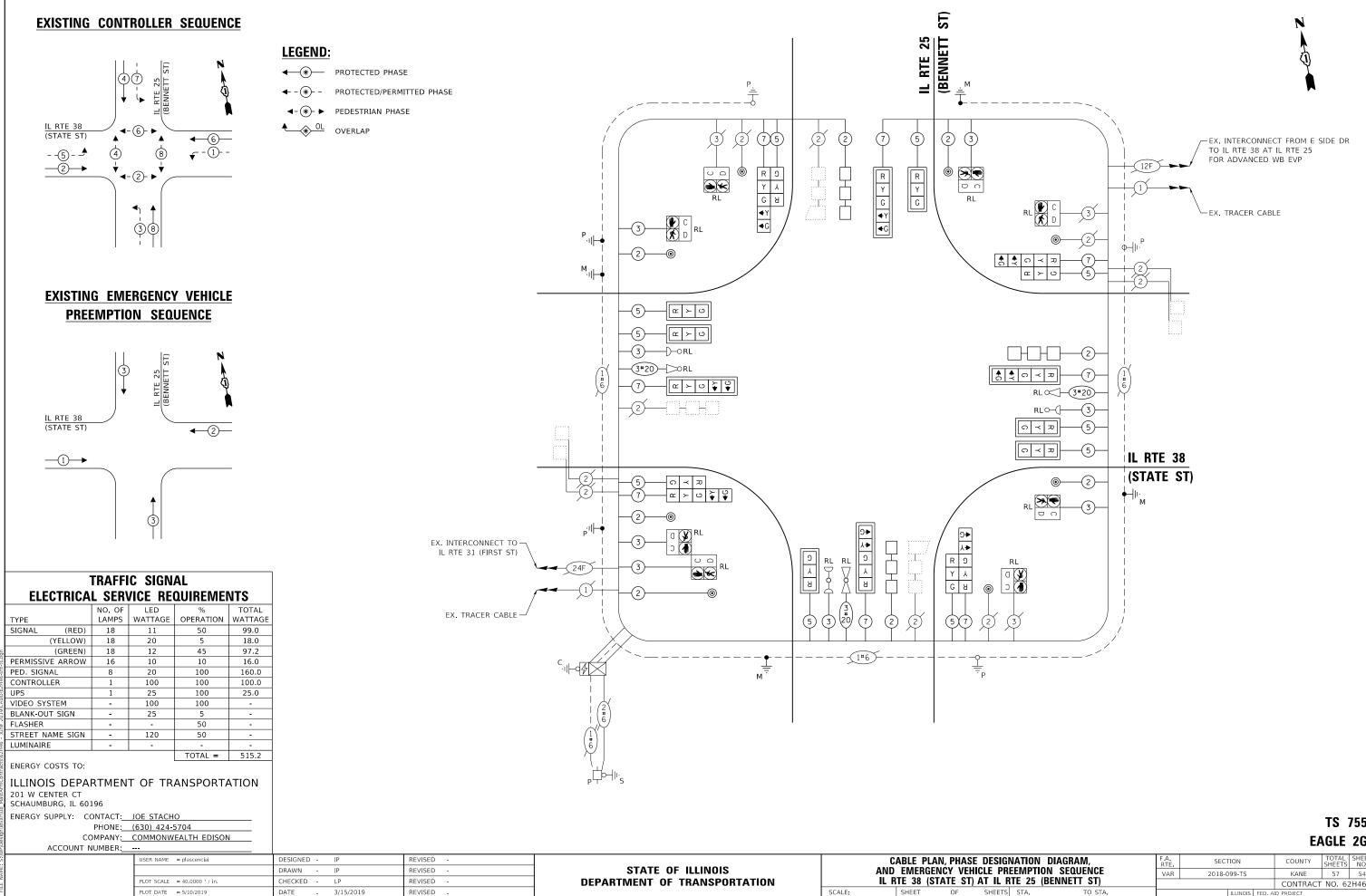
EMOVAL PLAN	F.A. RTE	F.A. SECTION COUNTY S					
RTE 25 (BENNETT ST)	E 25 (BENNETT ST)						52
THE 25 (DENNETT ST)	TE 23 (DEINNETT 31) CONTRACT				NO. 62	2H46	
TS STA. TO STA.			FED. A	AID PROJECT			



USER NAME = plascenciai	DESIGNED - IP	REVISED -			TRAFF	C SIGNA		FRNIZA	TION PLA	N	F.A. BTE	SECTION	COUNTY	TOTAL SHEET
	DRAWN - IP	REVISED -	STATE OF ILLINOIS		RTE 38 (S				25 (BENNE		VAR	2018-099-TS	KANE	57 53
PLOT SCALE = 40,0000 ' / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION		11E 30 (8	STATE 3		. NIC 4	23 (DEIVIVE	:11 31)	_		CONTRA	T NO 62H46
PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEE	TS STA	۹.	TO STA.		ILLINOIS	FED. AID PROJECT	



-EX. INTERCONNECT FROM E SIDE DR TO IL RTE 38 AT IL RTE 25 FOR ADVANCED WB EVP



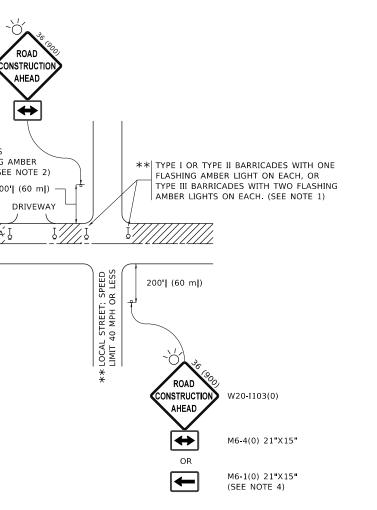
	GNATION DIAGRAM, PREEMPTION SEQUENCE			F.A. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
				2018-0	99-TS		KANE	57	54
. К	RTE 25 (BENNETT ST)						CONTRACT	NO. 62	2H46
TS STA. TO STA.				ILLINOIS	FED. AI	D PROJECT			

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	73
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	43
HEAVY-DUTY HANDHOLE	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	574
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	950
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,470
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,195
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	560
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	130
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	54.0
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, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
DETECTOR LOOP, TYPE I	FOOT	280
PEDESTRIAN PUSH-BUTTON	EACH	8
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	276
REMOVE EXISTING JUNCTION BOX	EACH	3
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
REMOVE AND REPLACE ANCHOR BOLTS	EACH	2
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4

	USER NAME = plascenciai	DESIGNED - IP	REVISED -			SCHEDULE OF QUANTITIES					F.A. BTE	SECTION	COUNTY	TOTAL	SHEET
		DRAWN - IP	REVISED -	STATE OF ILLINOIS			VAR	2018-099-TS	KANE	57	55				
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LP	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RTE 38 (STATE ST) AT IL RTE 25 (BENNETT ST)						CONTRAC	T NO. 6	52H46		
	PLOT DATE = 5/10/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS S	TA.	TO STA.		ILLINOIS FE	D. AID PROJECT		

ROAD CONSTRUCTION AHEAD 15 (380) 21 (530) 21 (530) 21 (530) (10 00 10 0
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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.
 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.
THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY 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.
WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE 4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
E OF ILLINOIS

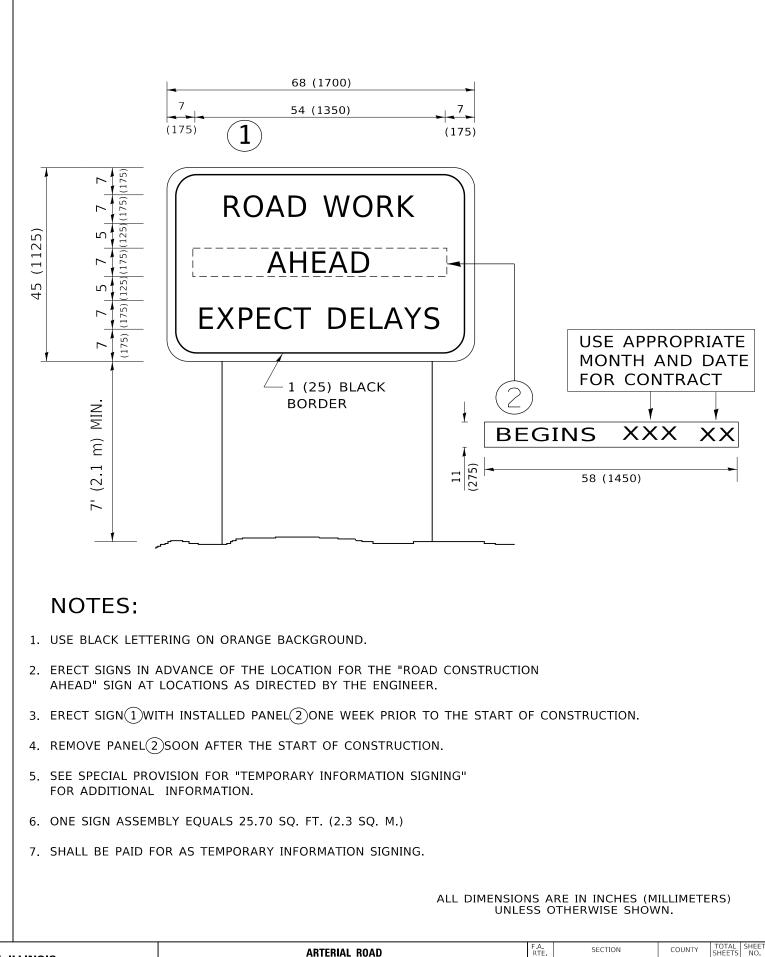
USER NAME = plasenciai DESIGNED - L.H.A. REVISED - A. HOUSEH 10-15-96	L SHEET
	56
PLOT SCALE = 100.0000 / in. CHECKED REVISED A. SCHUETZE 07-01-13 DEPARTMENT OF TRANSPORTATION SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS VAR 2018-099-15 COOK 5.	62H46
PLOT DATE = 5/10/2019 DATE - 06-89 REVISED A SCHUETZE 09-15-16 ILLINOIS FED. AID PROJECT	



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.
- 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 = plascenciai	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A. BTE	SECTION	COUNTY TOTAL SHEET	
	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN			2018-099-TS	COOK 57 57
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN			TC-22	CONTRACT NO. 62H46
PLOT DATE = 5/10/2019	DATE -	REVISED C. JUCIUS 01-31-07		SCALE: NONE SHEET 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FED. A	AID PROJECT