06-16-2017 LETTING ITEM 264

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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STATE OF ILLINOIS

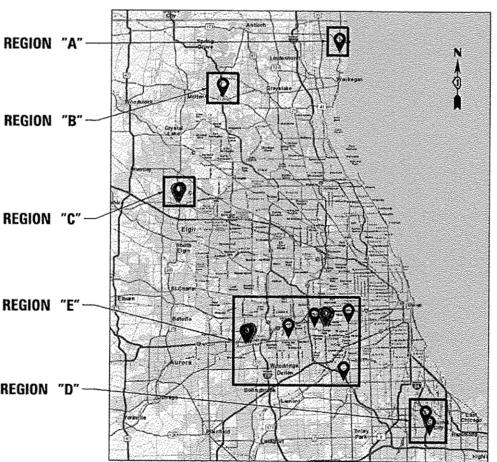
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED

VARIOUS LOCATIONS IN DISTRICT 1 CONTRACT NO. 1 2017-004TS TROMBONE MAST ARM REPLACEMENT

C-91-181-17



VARIOUS TOWNSHIPS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Expires 11-30-2017

DEPARTMENT OF TRANSPORTATION

2017-00415

ILLINOIS CONTRACT NO. 62098

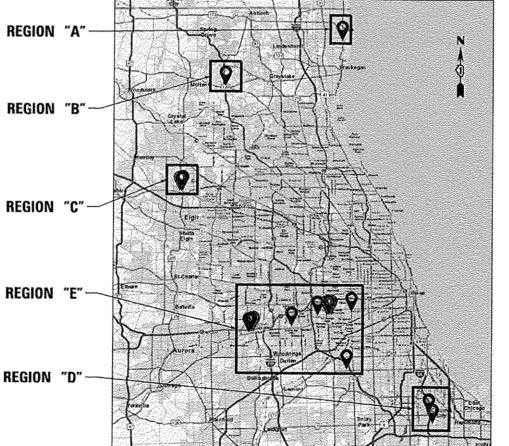
VAR

LOCATION OF SECTION INDICATED THUS:

D-91-181-17

HIGHWAY PLANS

VARIOUS COUNTIES



FOR LOCATION MAPS SEE SHEET NO. 3 - 4

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

OR 811

PROJECT ENGINEER: IOVAN PLASCENCIA PROJECT MANAGER: LUKASZ POCIECHA

CONTRACT NO. 62D98

MODELNAME

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USER NAME : USERNAME.

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 - CABLE PLAN AND SCHEDULE OF QUANTITIES
- 54 ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

701101-05 OFF-ROAD OPERATIONS MULITLANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

701701-10

701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE

701901-06 TRAFFIC CONTROL DEVICES

720001-01 SIGN PANEL MOUNTING DETAIL

814001-03 HANDHOLES

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

873001-02 TRAFFIC SIGNAL CROUNDING & BONDING

877001-06 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'

878001-10 CONCRETE FOUNDATION DETAILS

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

701006-05 OFF-ROAD OPERATIONS 2L. 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

URBAN LANE CLOSURE MULTILANE INTERSECTION

STATE OF ILLINOIS RTMENT OF TRANSPORTATION INDEX OF SHEETS & GENERAL NOTES

SHEETS STA.

GENERAL NOTES:

REQUIREDS

HOURS IN ADVANCE OF BEGINNING WORK.

DURING CONSTRUCTION AT THEIR EXPENSE.

STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

NOMINAL AND ONLY TO BE UTILIZED AS APPROVED BY THE ENGINEER

GOVERNMENT AGENCIES AND IDOT.

PRIOR TO THE START OF CONSTRUCTION,

525 - US RTE 12-20 AT ROBERTS RD

11830 - US RTE 34 AT YACKLEY AVE

3475 - IL RTE 83 AT LINCOLN AVE/MICHIGAN CITY RD

RLR CAMERA LOCATION:

RLR CAMERA LOCATION:

RLR CAMERA LOCATION:

VILLAGE OF LISLE 925 BURLINGTON AVE LISLE, IL 60532

630-271-4100

OF

SCALE:

VILLAGE OF DOLTON

14122 CHICAGO RD DOLTON, IL 60419 708-849-4000

VILLAGE OF HICKORY HILLS 8652 W. 95TH ST HICKORY HILLS, IL 60457 708-598-4800

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 CAS. 48 HOUR NOTIFICATION

2. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470, 72

3. 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

4. THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE

FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES, THE

5. IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR

FACILITIES PRIOR TO PERFORMING ANY WORK, IF THIS CONTRACT DOES NOT REQUIRE THE

SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL

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

OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL

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.

APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH

SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN

9. PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL

10. AT LOCATIONS ON THE PLANS WHERE TRAFFIC SIGNAL POST REMOVAL AND NEW TRAFFIC SIGNAL POSTINSTALLATIONS ARE SPECIFIED. THE CONTRACTOR SHALL INSPECT THE EXISTING POST

CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING

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

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED

INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN

ANCHOR BOLT IS ACCEPTABLE FOR REUSE WITH A NEW POST. IF THE EXISTING ANCHOR BOLT

FOUNDATIONS. PRIOR TO REMOVING THE EXISTING TRAFFIC SIGNAL POST TO BE REPLACED THE

CONDITION IS NOT ACCEPTABLE. THE CONTRACTOR SHALL REPLACE ANCHOR BOLT AS DIRECTED BY

LOCATIONS, CONTRACTOR SHALL NOTIFY THE VILLAGE AND RER CAMERA COMPANY PRIOR TO THE STARY OF CONSTRUCTION. THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA

CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS

REDSPEED ILLINOIS 400 EISENHOWER LANE NORTH LOMBARD, IL 60148 630-317-5700

SAFESPEED. LLC 150 N. UPPED WACKER DR

60606

400 EISENHOWER LANE NORTH LOMBARD, IL 60148

CHICAGO, 1L 6

REDSPEED II INDIS

630-317-5700

TO STA.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR

UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY

OWNED EQUIPMENT. LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND

CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR BIL. IN THE CITY OF CHICAGO CONTACT

DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION

SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.

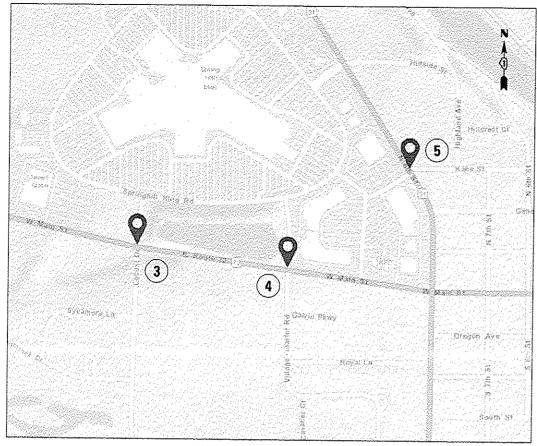
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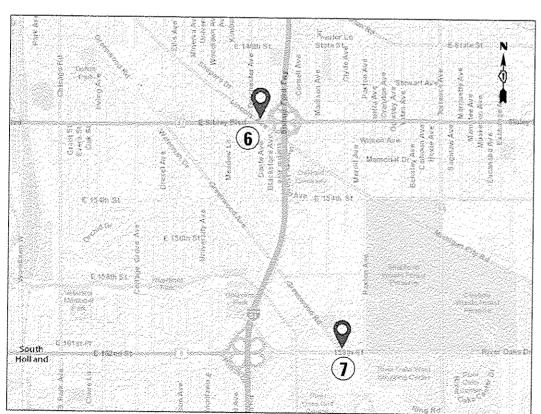
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DESIGNED - DW

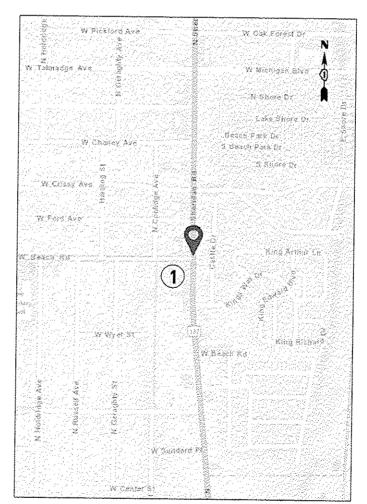


REGION "C"



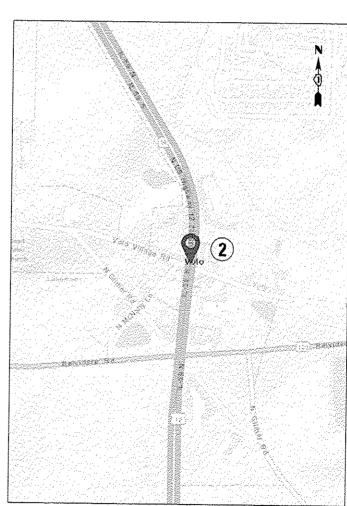
REGION "D"

LOCATION NO.	REGION	PAGE NO.	TS NO.	LOCATION	MUNICIPALITY	COUNTY
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16. 17. 18.	F F F	48 50 52	3770 2395 525	31ST ST AT KEMMAN AVE/GRAND BLVD IL RTE 43 (HARLEM AVE) AT RIVERSIDE DR/LONGCOMMON RD US RTE 12-20 (95TH ST) AT ROBERTS RD	LA GRANGE PARK RIVERSIDE HICKORY HILLS	COOK COOK COOK



REGION "A"

SCALE:



REGION "B"

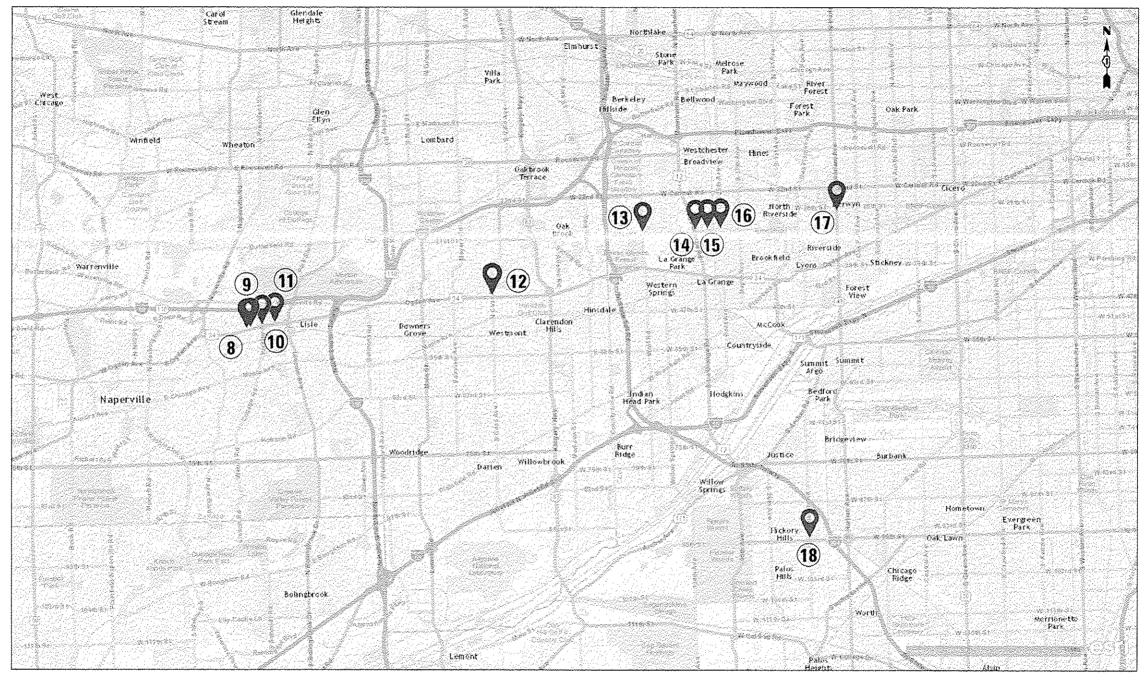
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STATE	OF	ILLINOIS
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GENERAL COOK DUPAGE KANE LAKE HICKORY HILLS CODE TOTAL TRAFFIC SIGNAL ITEM NO. UNIT QUANTITY 0021 URBAN 42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH SQ FT 215 100 115 60255500 MANHOLES TO BE ADJUSTED EACH 1 67000400 ENGINEER'S FIELD OFFICE, TYPE A CAL MO 6 67100100 MOBILIZATION LSUM 70102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 L SUM 1 70102640 TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM 1 81028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. FOOT 46 81028220 UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. FOOT 1169 497 420 149 103 81400100 HANDHOLE EACH 6 81400200 EACH HEAVY-DUTY HANDHOLE 1 85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH 18 2 3 85100600 PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT EACH 2 2 85100701 EACH PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER 2 2 87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C FOOT 2851 691 1871 289

FILE NAME:

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET OF SHEETS STA. TO STA.

100% STATE

100% CITY OF

F.A.P. SECTION COUNTY TOTAL SHEET NO. VAR 2017-004TS VAR 54 5

CONTRACT NO. 62D98

[ILLINGIS] FED. AID PROJECT

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87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	7518		3877	2525	666	450	The second secon
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87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	20146		8824	6482	2356	2484	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	9574		3713	3310	1852	699	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	5007	vietetavinimuses		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM				
3733,000	CLEONIO OF COMPON, ELAD-III, NO. 14 1 PAIR	FOOT	145					145	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1941		826	710	247	158	

87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	7		3	4			
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87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3				1	2	
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87700130	STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.	EACH	4		1				
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87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	2		2				
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2		2		on the second se		
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87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	4		2	1	77	1	THE PROPERTY OF THE PROPERTY O
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1			1			
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	3		1	1		1	
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	4			4			
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

SUMMARY OF QUANTITIES

OF SHEETS STA. TO STA.

F.A.P. SECTION

VAR 2017-004TS

| ILLINOIS|FED. AI

				GENERAL	соок	100% STATE	KANE	LAKE	100% CITY OF HICKORY HILLS
CODE			TOTAL		1	TRA	FFIC SIGNAL		
NO.	ITEM	UNIT	QUANTITY				0021 URBAN		

87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	7	The second secon	3	1	2	1	
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	11	-	5	3	2	1	
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87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	4	Average de la constitución de la	2	2			
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	3	7-2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	2	Account of the state of the sta	40		
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	3		4	2	The state of the s		
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1		of the second se		The state of the s		
					WAY A PARKET AND A				
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	2			444			
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1		or de	1	NA VIENNA PARA PARA PARA PARA PARA PARA PARA P		
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT,	EACH	1	·			4		
87700310	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1		1	And a second sec			
		an managaman and an analas							
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	40.0		12.0	24.0		4.0	
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	491.5		218.5	168.5	54.0	50.5	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	160.0		67.0	52.0	41.0		
87900200	DRILL EXISTING HANDHOLE	EACH	62	A THE STATE OF THE	26	23	7	6	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

SUMMARY OF QUANTITIES

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88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	83		35	31	9	8	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2				2		
			The state of the s	ļ					
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2				1	1	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5	The state of the s	1		3	1	
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88055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	- Andrews - Andr	3				
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88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6		6				
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60000200	OPTICALLY PROGRAMMED SIGNAL HEAD. LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2		2				
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	96		44	31	12	9	
					or and a second		-		
88500100	INDUCTIVE LOOP DETECTOR	EACH	ţ				THE STATE OF THE S	40	
88600100	DETECTOR LOOP, TYPE I	FOOT	96		Account of the second			96	
89500100	RELOCATE EXISTING SIGNAL HEAD	54011							
22300100	HELOOME EVOISSO GIGINE LEMD	EACH	64		22	22	10	10	
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	25		8	13	2	2	

89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	20		6	11	1	2	
							-		
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2			2			
			la de cue de servicio de servi					ļ	

100% STATE

DUPAGE

KANE

LAKE

GENERAL

COOK

FILE NAME :

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE

SUMMARY OF QUANTITIES

| F.A.P. | SECTION | COUNTY | SHEETS | NO. |
| VAR | 2017-004TS | VAR | 54 | 8 |
| CONTRACT NO. 62098 |
| SHEET OF SHEETS STA. TO STA. | SHEETS | SECTION | COUNTY | SHEETS | NO. |
| VAR | 2017-004TS | VAR | 54 | 8 |
| CONTRACT NO. 62098 |

100% CITY OF HICKORY HILLS

			-		·	100% STATE		<u> </u>	
,,,,,				GENERAL	соок	DUPAGE	KANE	LAKE	100% CITY OF HICKORY HILLS
CODE			TOTAL			TRA	FFIC SIGNAL		<u> </u>
NO.	ITEM	UNIT	QUANTITY				0021	.****	
			A CONTRACTOR OF THE CONTRACTOR				URBAN		
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	18		8	5	3	2	
89502200	MODIFY EXISTING CONTROLLER	EACH	2				444	1	
						TAXABATA AND AND AND AND AND AND AND AND AND AN			Territoria
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	22174		8932	8374	2882	1986	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	18		8	5	3	2	
· · · · · · · · · · · · · · · · · · ·			,,,				S	-	And the state of t
89502380	REMOVE EXISTING HANDHOLE	EACH	2				1	1	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	55		23	20	8		
		27011			25	20	8	4	
Z0030850	TEMPORARY INFORMATION SIGNING	SQFT	616.8		308.4	102.8	102.8	102.8	
Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	2	VI III III III III III III III III III			4		
	TRAINEES - TRAINING PROGRAM GRADUATE	Hour	500	500			*	1	
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	4385		2189	1383	666	147	
X8100863	INTERCEPT EXISTING CONDUIT	EACH	6				6	ever and the second sec	
							•		
X8130125	REMOVE EXISTING JUNCTION BOX	EACH	6				6		
		And the second s			and the state of t	and the state of t			
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PLOT DATE = 4/24/2017 CHECKED - JH
DATE - 2/06/2017 REVISED -SMODELNAMES REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

F.A.P. RTE. VAR SECTION SUMMARY OF QUANTITIES 2017-004T\$ SHEET SHEETS STA. OF TO STA.

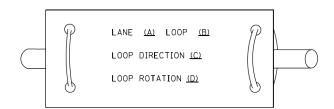
TRAFFIC SIGNAL LEGEND

<u> </u>				(NOT TO SCALE)				
LIEM	EXISTING	PROPOSED	LIEM	EXISTING	PROPOSED	LIEM	EXISTING	PROPOSED
CONTROLLER CABINET	\boxtimes	B	HANDHOLE -SQUARE	D 8		SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R	RR
COMMUNICATION CABINET	ECC	CC	-ROUND			J. J		R R Y G G G • Y • Y • G • G
MASTER CONTROLLER	EMC	MC	HEAVY DUTY HANDHOLE -SOUARE -ROUND		E 0			47 47 40 40 P
MASTER MASTER CONTROLLER	EARC	MMC	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE		[]
UNINTERRUPTABLE POWER SUPPLY	Ø	2	JUNCTION BOX	0	0	-(PB) RETROREFLECTIVE BACKPLATE		R R Y Y
SERVICE INSTALLATION	-□- [°]	- ■ -	RAILROAD CANTILEVER MAST ARM	2=2==2= 2	141-1-1	S. S. A. C. Marie Language Constitution of the	(Attotal)	Y G G G G G G G G G G G G G G G G G G G
-(P) POLE MOUNTED SERVICE INSTALLATION	_	 -	RAILROAD FLASHING SIGNAL	∑o ₹	X+X		면 별 별 8 R	P RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	⊠ ^G ⊠ ^{GM}	™ ^e ™ ew	RAILROAD CROSSING GATE	∑⊙∑ >	X+3-	PEDESTRIAN SIGNAL HEAD	FE)	
TELEPHONE CONNECTION	[ET]	T	RAILROAD CROSSBUCK	ざ	*	AT RAILROAD INTERSECTIONS	P	<u>▶</u>
STEEL MAST ARM ASSEMBLY AND POLE	<u> </u>	•	RAILROAD CONTROLLER CABINET		><	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	(A) 5 (A) 5	● C ★ D
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL	The Revision of	Marian			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	0-)\$	•*	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		(9)
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	 ● 8M 	SYSTEM LITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14. UNLESS NOTED OTHERWISE.	<u> (s) </u>	
WOOD POLE	⊗	•	INTERSECTION ITEM REMOVE ITEM	I	IP O	ALL DETECTOR LOOP CABLE TO BE SHIELDED GROUND CABLE IN CONDUIT.		_
GUY WIRE	>	>-	RELOCATE ITEM		RL	NO. 6 SOLID COPPER (GREEN)	(1#6)	1=6
SIGNAL HEAD	→>	*	ABANDON ITEM		A	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	-1-
SIGNAL HEAD WITH BACKPLATE	+(>	+-	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	<u> </u>	- C-
SIGNAL HEAD OPTICALLY PROGRAMMED	→ +D P		MAST ARM POLE AND			VENDOR CABLE		
FLASHER INSTALLATION -(FS) SOLAR POWERED	00 00 FS	F FS	FOUNDATION TO BE REMOVED		RMF	COPPER INTERCONNECT CABLE.		_
	oct octs	₽₽ ^F ₽₽ ^{FS}	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	NO. 18, 3 PAIR TWISTED. SHIELDED	(6*18)	——————————————————————————————————————
PEDESTRIAN SIGNAL HEAD	-0	~1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125. MM12F -NO. 62.5/125. MM12F SM12F	12F)—	——————————————————————————————————————
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP	(P) (P)	P P	~NO. 62.5/125, MM12F SM24F	-(24F)-	—24F)—
RADAR DETECTION SENSOR	(E)1	R	SAMPLING (SYSTEM) DETECTOR	<u>(S</u>) (\$)	S S		—(36F)—	—(36F)—
VIDEO DETECTION CAMERA	(V)	**	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	[15] (16)	रा हा			
RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING (SYSTEM) DETECTOR	<u>વિંકી</u> જીંકે	<u>05</u>	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	±° ₹ ^M ₹° ₹°	T T T S
PAN, TILT, ZOOM (PTZ) CAMERA	<u>चिंदी</u> 1	PTZ*	WIRELESS DETECTOR SENSOR	⊗	⊕	-(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	\approx	-	WIRELESS ACCESS POINT		-			
CONFIMATION BEACON	o()	⊷•						
WIRELESS INTERCONNECT	>-1 	•+1				·		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						
								•
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#MODELNAME# PLOT DATE > 4/5/2017		2/06/2017 REVISED -			SCALE: NONE	SHEET 1 OF 7 SHEETS STA. TO STA.	FED, ROAD DIST. NO. 1 ILL	

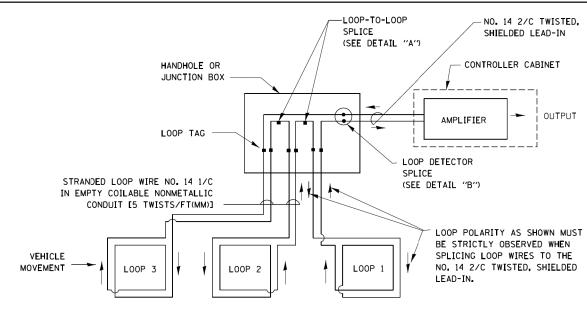
LOOP DETECTOR NOTES

- 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.

LOOP LEAD-IN CABLE TAG

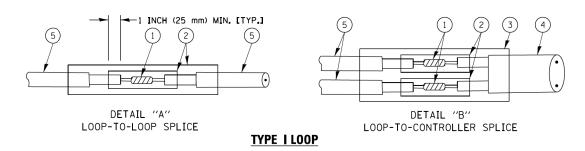


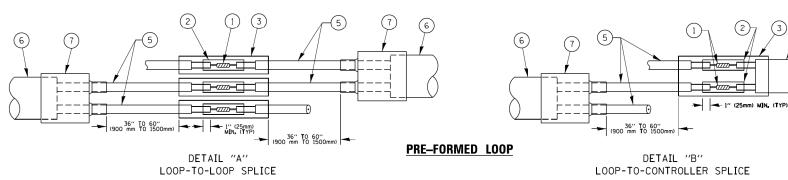
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.





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.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

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

COUNTY

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CONTRACT NO. 62D98

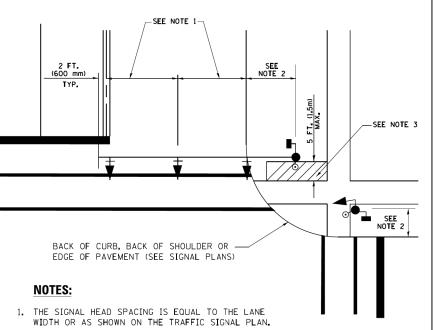
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

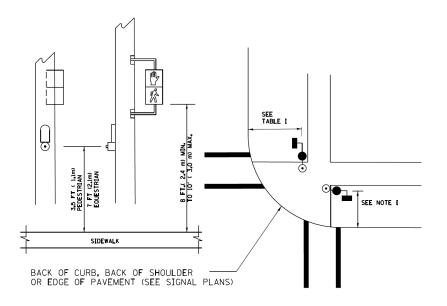
SHEET 2 OF 7 SHEETS STA. TO STA. FED. ROAD DIST, NO. 1 ILLINDIS FEE

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.

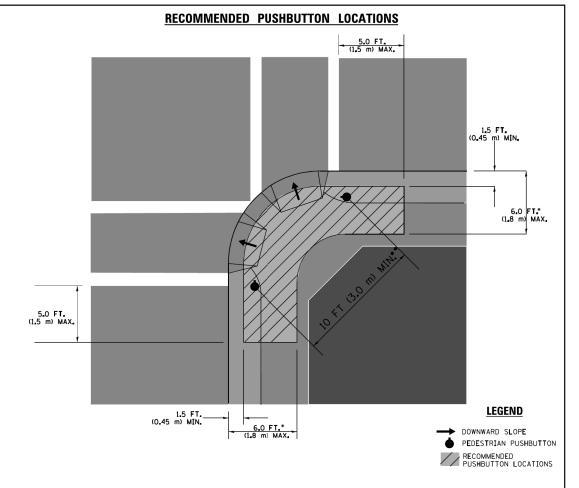


- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK. ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO 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

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



- 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."



- * 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 $\operatorname{\textbf{HE}ADS}$ 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

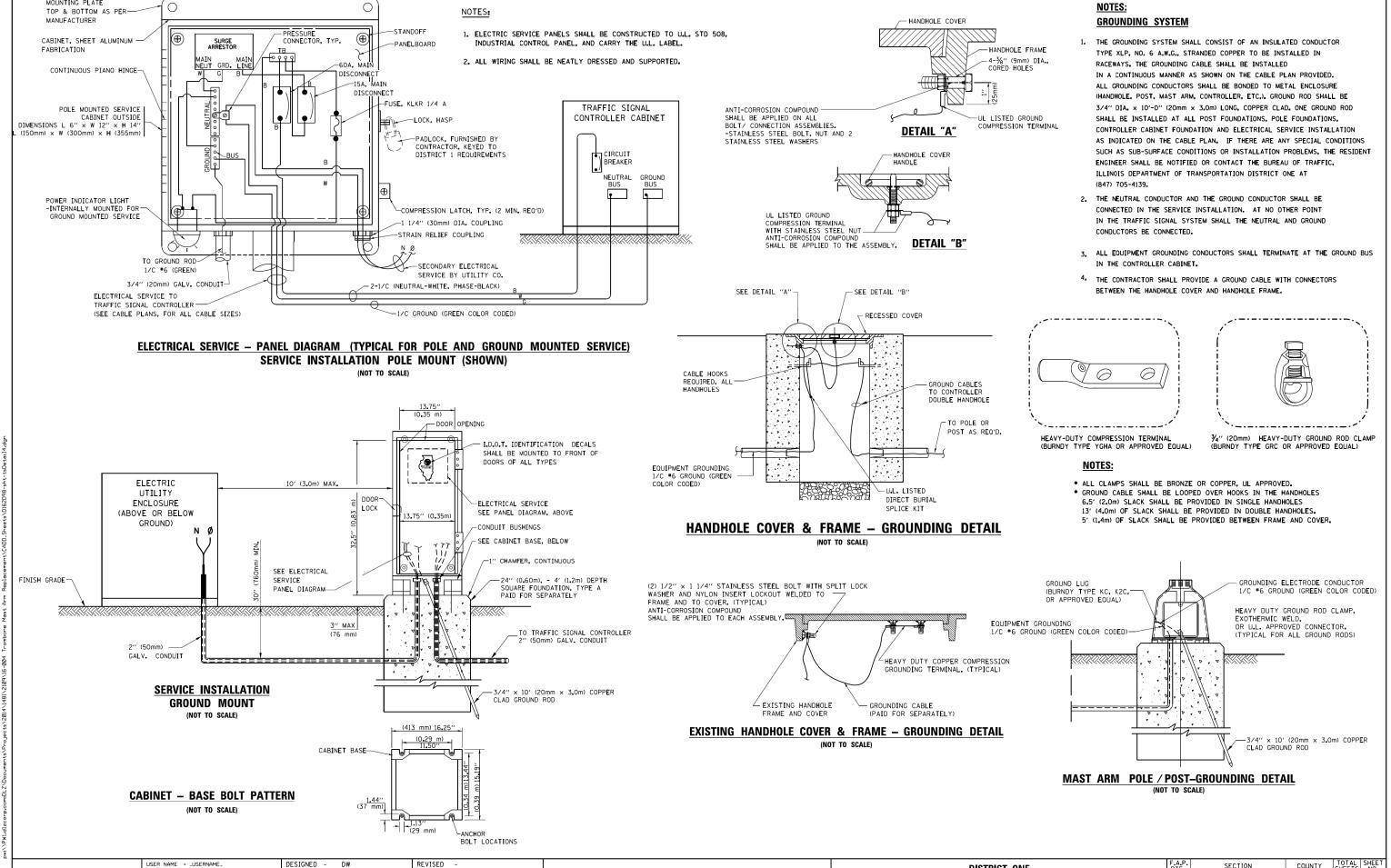
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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 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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MOUNTING PLATE



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SECTION

2017-004TS

VAR

DISTRICT ONE

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

4 OF 7 SHEETS STA.

SCALE: NONE

COUNTY

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CONTRACT NO. 62D98

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PLOT SCALE = 2.0000 '/ in.

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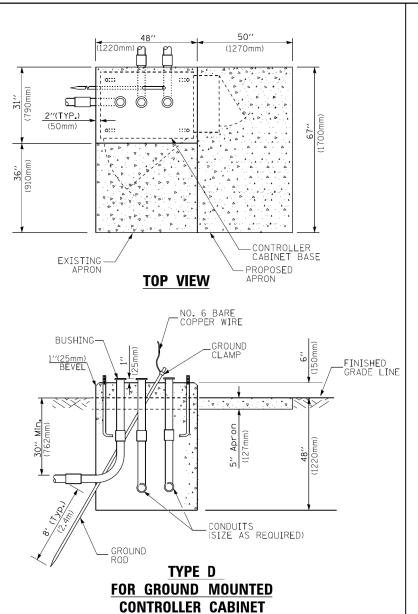
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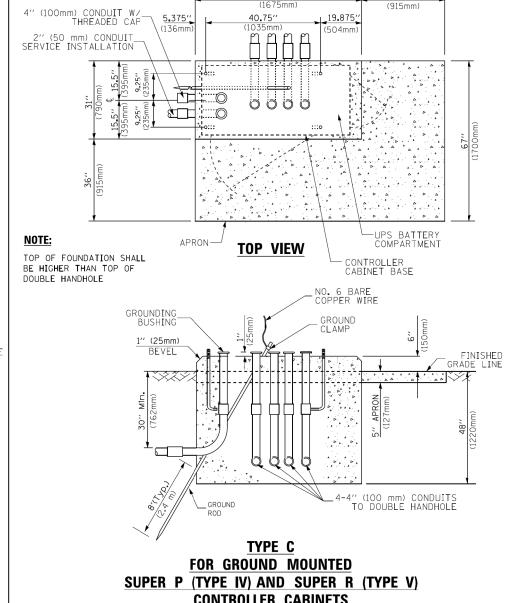
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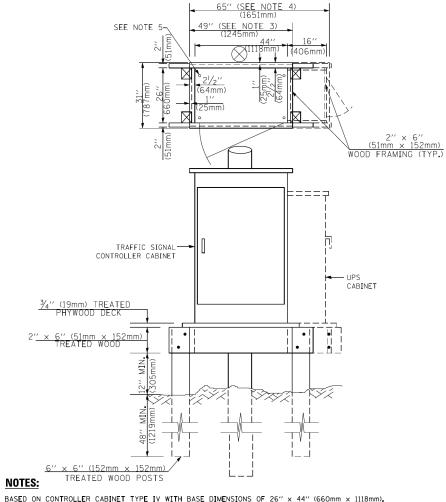
REVISED



AND UPS BATTERY CABINET



CONTROLLER CABINETS



- 1. 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
- 2. 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.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. 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.
- 6. 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

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

CABLE SLACK

	FEET	METER	F	OUNDATION
			T	YPE A - Signal Post
	20.0+L	6.0+L	T	YPE C - CONTROLLER W/ UPS
	13.0	4.0	T	YPE D - CONTROLLER
	6.0	2.0	S	ERVICE INSTALLATION.
	13.5	4.1		ROUND MOUNT,
	13.5	4.1	LT	YPE A - SQUARE
	6.0	2.0		
ID MOUNT)	3.0	1.0		DEPTH OF FOUND

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diame t er	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	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 50′ (15.2 m) and up to 55′ (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42'' (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0'' (7 . 6 m)	42'' (1060mm)	36" (900mm)	16	8(25)

4'-0'' (1.2m)

4'-0'' (1.2m)

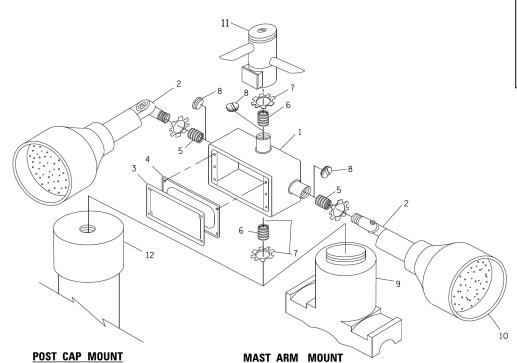
- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination most arm assemblies under 55 feet (16.8 m) shall use $36^{\prime\prime}$ (900 mm) diameter foundations.
- 3. 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 most arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

"		USER NAME = _USERNAME_	DESIGNED - DW	REVISED -	· ·	DISTRICT ONE	F.A.P. SECTION	COUNTY TOTAL SHEET
			DRAWN - XT	REVISED -	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR 2017-004TS	VAR 54 14
		PLOT SCALE = 2.0000 '/ in.	CHECKED - JH	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		CONTRACT NO. 62D98
\$MODELNAN	ME\$	PLOT DATE = 4/5/2017	DATE - 2/06/2017	REVISED -		SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT

- 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

USER NAME = _USERNAME. DESIGNED -REVISED DRAWN - XT REVISED CHECKED -REVISED PLOT DATE = 4/5/2017 DATE REVISED - 2/06/2017

PROPOSED APRON -CONTROLLER CABINET BASE **TOP VIEW** NO. 6 BARE COPPER WIRE NO. 3 DOWEL 18" (450mm)
LONG (8 REQ.) BUSHING -_GROUND CLAMP / EXISTING ANCHOR BOLTS 1"(25mm) BEVEL -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(1675mm)

40.75"

(1035mm)

(136mm

(915mm 19.875"

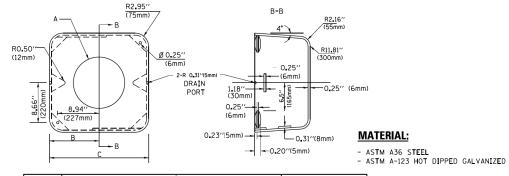
(504mm

(NOT TO SCALE)

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 REDUCING BUSHING 3/4"(19 mm) CLOSE NIPPLE /4"(19 mm) LOCKNUT 8 34"(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 12 POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

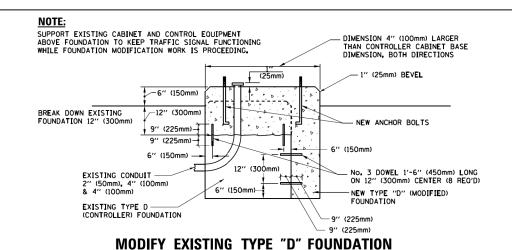
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION 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.



А	В	С	HEIGHT	WEIGHT
VARIES	9 . 5′′(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13 . 0''(330mm)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5''(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

- 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 VERIFIED 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.



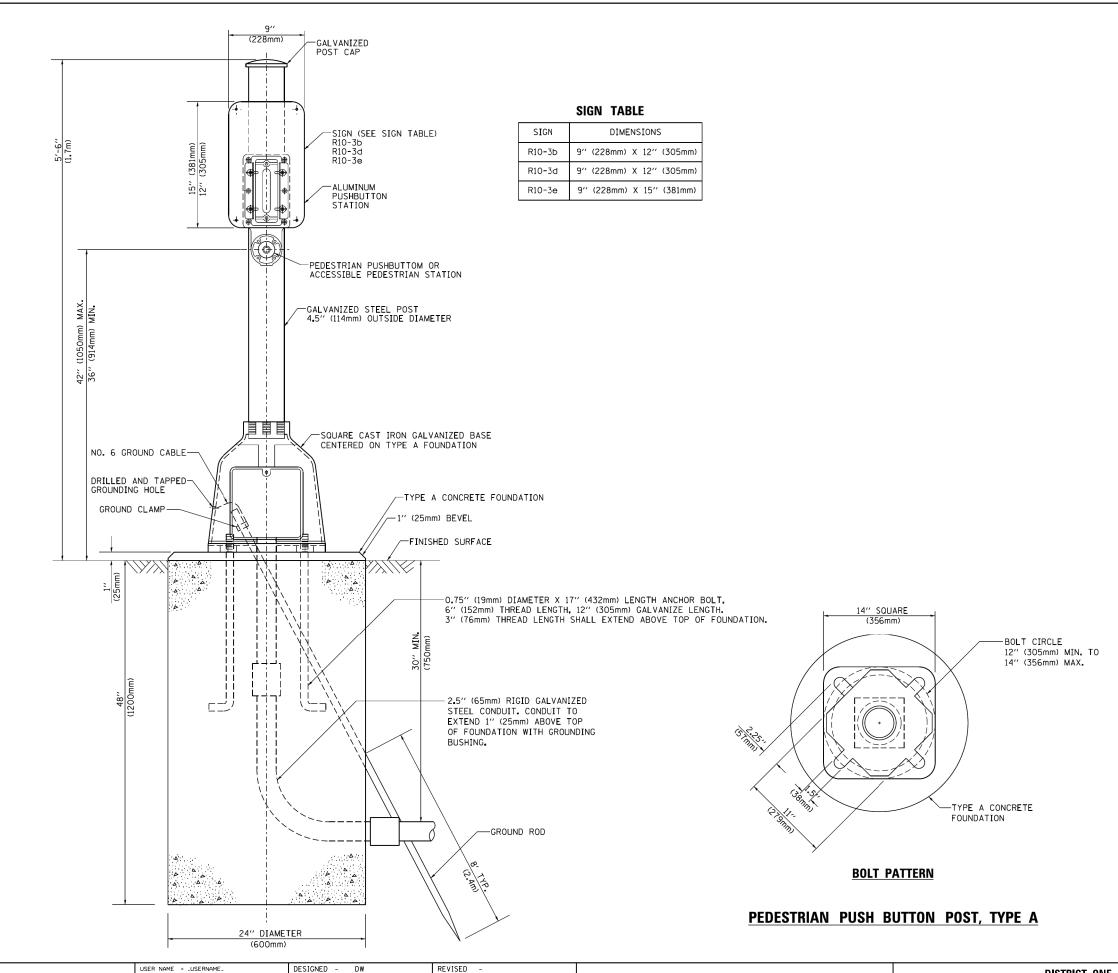
GALVANIZED STEEL HOOKS EXISTING CONDUIT TO BE REMOVED CONDUIT EXISTING CONDUIT TO REMAIN PLAN ELEVATION

- 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

	•			D	ISTR	RICT OF	VE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OIS		S1	ANDARD	TRAFF	IC :	SIGNAL	DESIGN	DETAILS	VAR	2017-004TS	VAR	54	15
SPORTATION									-		CONTRACT	NO.	62D98
	SCALE: NO	NE	SHEET	6 OF	7	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT		

STATE OF ILLINO **DEPARTMENT OF TRANSI**



DRAWN - XT

- 2/06/2017

CHECKED -

DATE

PLOT SCALE = 2.0000 '/ in.

PLOT DATE = 4/5/2017

REVISED

REVISED

REVISED

SCALE: NONE

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 7 OF 7 SHEETS STA.

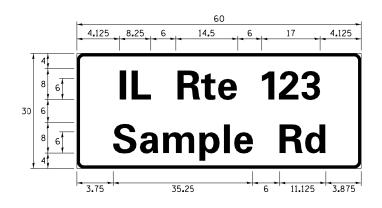
COUNTY TOTAL SHEET NO.

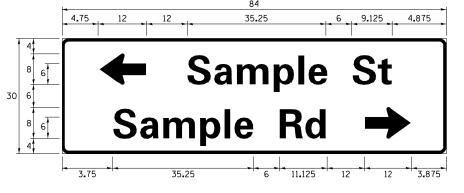
VAR 54 16 SECTION VAR 2017-004TS CONTRACT NO. 62D98

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SIGN PANEL - TYPE 1 OR TYPE 2

3.75 35.25 60 11.125 3.875 Sample Rd





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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH	(INCH)	
NAME	ADDREVATION	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	ΙL	7.000	8. 250	
LANE	Ln	9.125	10.750	
PARKWAY	Pkwy	23. 375	27.375	
PLACE	PI	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 ¾" 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 SCREWS
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER

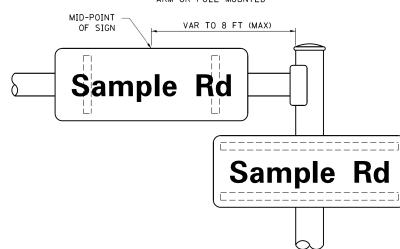
- WESTERN REMAC, INC.
BRACKETS
PART #HPNO34 (UNIVERSAL)

WOODRIDGE, IL CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

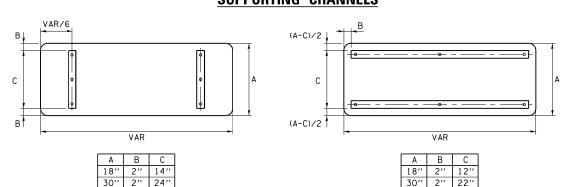
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION





SUPPORTING CHANNELS



SCALE: NONE

STANDARD ALPHABETS SPACING CHART

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

	FHWA SEF	KIEZ "C	1	FHWA SERIES "D"					
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACIN (INCH)		
Α	0.240	5.122	0.240	Α	0.240	6.804	0.240		
В	0.880	4. 482	0.480	В	0.960	5.446	0.400		
С	0.720	4. 482	0.720	С	0.800	5.446	0.800		
D	0.880	4.482	0.720	D	0.960	5.446	0.800		
E	0.880	4.082	0.480	E	0.960	4.962	0.400		
F	0.880	4.082	0.240	F	0.960	4.962	0.240		
G	0.720	4.482	0.720	G	0.800	5.446	0.800		
H I	0.880	4.482	0.880	H	0.960	5.446	0.960		
J	0.880 0.240	1.120 4.082	0.880 0.880	I J	0.960 0.240	1.280 5.122	0.960		
K	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		
M	0.880	5. 284	0.880	М	0.960	6. 244	0.960		
N	0.880	4. 482	0.880	N	0.960	5. 446	0.960		
0	0.720	4. 722	0.720	0	0.800	5. 684	0.800		
P	0.880	4. 482	0.720	P	0.960	5. 446	0.240		
Q	0.720	4. 722	0.720	Q	0.800	5. 684	0.800		
R	0.880	4. 482	0.480	R	0.960	5.446	0.400		
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		
Х	0.240	4.722	0.240	X	0.400	5.446	0.400		
Υ	0.240	5. 122	0.240	Y	0.240	6.884	0.240		
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400		
а	0.320	3.842	0.640	a	0.400	4.562	0.720		
Ь	0.720	4.082	0.480	Ь	0.800	4.802	0.480		
С	0.480	4.002	0.240	С	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		
i	0.720	1.120	0.720	ī	0.800	1.280	0.800		
j	0.000	2.320	0.720	j	0.000	2.642	0.800		
k	0.720	4.322	0.160	k	0.800	5.122	0.160		
1	0.720	1.120	0.720	1	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		
Р	0.720	4.082	0.480	Р	0.800	4.802	0.480		
q	0.480	4.082	0.720	q	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	0.080	+	0.080	3. 202	0.080		
u	0.640	4.082	0.720	u	0.720	4.722	0.800		
٧	0.160	4. 722	0.160	٧	0.160	5.684	0.160		
W	0.160	7.524	0.160	W	0.160	9.046	0.160		
X	0.000	5. 202	0.000	×	0.000	6. 244	0.000		
<u>у</u>	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		
2	0.720	1.680 4.482	0.880 0.480	1	0.800 0.800	2.000 5.446	0.960		
3	0.480	4.482	0.480	3	1.440	5.446	0.800		
4	0.480	4.482	0.480	4	0.160	6.004	0. 960		
5		4. 482		5		5. 446			
6	0.480 0.720	4.482	0.480	6	0.800	5.446	0.800		
7	0.720	4.482	0.720 0.720	7		5. 446	0.560		
8	0.240	4.482	0. 120	8	0.560 0.800	5.446	0. 800		
9	0.480	4.482	0.480	9	0.800	5.446	0.800		
0	0.480	4. 482	0.480	0	0.800	5. 684	0.800		
-	0.720	2. 802	0. 720	-	0.800	2.802	0.800		
	0.240	Z. 0UZ	0.240	_	0.240	2.002	0.240		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		DIS	TRICT ON	E		F.A.P. RTE.	SECTION	COUNTY	T0 SHE
N	MAST ARM	MOUN	ITEN STR	EET NIAN	WE SIGNS	VAR	2017-004TS	VAR	
MAST ARM MOUNTED STREET NAME SIGNS							CONTRACT	N	
	SHEET	OF	SHEETS	STA.	TO STA.	EED D	OAD DIST NO 1 THE INDIS EED A	ID PROJECT	

TS 7190 ECON LAKE COUNTY SYSTEM

	USER NAME = _USERNAME_	DESIGNED - DW	REVISED -		TDAEEIC CI	MAI EOU	IDMENIT	DEMOVAL	AND MO	DIFICATION PLAN	F.A.P.	SECTION	COUNTY	TOTAL SH	ξET
		DRAWN - XT	REVISED -	STATE OF ILLINOIS	INAFFIC SI			RIDAN RD)			VAR	2017-004TS	LAKE	54	18
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JH	REVISED -	DEPARTMENT OF TRANSPORTATION		IL NIL IS	37 (SIILI	NIDAN ND)	AI BLAC	טח וו			CONTRAC	T NO. 62D	98
\$MODELNAME\$	PLOT DATE = 4/5/2017	DATE - 2/06/2017	REVISED -		SCALE: 1" = 20'	SHEET	0F	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

LEGEND:

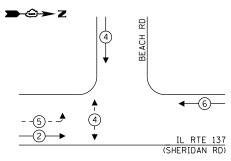
★PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

♦ OL OVERLAP

PROPOSED CONTROLLER SEQUENCE



ELECTRICAL SERVICE REQUIREMENTS									
	NO. OF	LED	7.	TOTAL					
Έ	LAMPS	WATTAGE	OPERATION	WATTAGE					
NAL (RED)	12	11	50	66.0					
(YELLOW)	12	20	5	12.0					
(GREEN)	12	12	45	64.8					
MISSIVE ARROW	4	10	10	4.0					
. SIGNAL	2	20	100	40.0					
ITROLLER	1	100	100	100.0					
	1	25	100	25.0					
EO SYSTEM	-	150	100	-					
NK-OUT SIGN	-	25	5	-					
CAMERA	1	15	100	15.0					
EET NAME SIGN	-	120	50	-					
IINAIRE	-	-	-	-					
		•	TOTAL =	326.8					

ENERGY COSTS TO:

VILLAGE OF BEACH PARK 11270 W. WADSWORTH ROAD

BEACH PARK, IL 60099-3358 ENERGY SUPPLY: CONTACT: TERRI BLECK

PHONE: 847-816-5239 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER:

USER NAME = _USERNAME_ DESIGNED - DW REVISED -DRAWN - XT REVISED CHECKED -REVISED PLOT DATE = 4/5/2017 DATE - 2/06/2017 REVISED

1200

FOOT

EACH

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL RTE 137

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES IL RTE 137 (SHERIDAN RD) AT BEACH RD SCALE: N.T.S. SHEET

COUNTY TOTAL SHEET NO. LAKE 54 19 SECTION 2017-004TS VAR CONTRACT NO. 62D98 OF SHEETS STA.

-EX. INTERCONNECT TO WADSWORTH RD

-TRACER CABLE

TS 7190

ECON LAKE COUNTY SYSTEM

(SHERIDAN RD)

SCHEDU	LE OF	QUANTITIES
<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u> ≡P
46	FOOT	UNDERGROUND CONDUIT. GALVANIZED STEEL. 2" DIA.
52	FOOT	UNDERGROUND CONDUIT. GALVANIZED STEEL. 3" DIA.
1	EACH	HEAVY-DUTY HANDHOLE
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
289	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
303	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1162	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
203	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
145	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
85	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
23.5	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
4	EACH	DRILL EXISTING HANDHOLE
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
3	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
1	EACH	INDUCTIVE LOOP DETECTOR
96	FOOT	DETECTOR LOOP, TYPE I
6	EACH	RELOCATE EXISTING SIGNAL HEAD
2	EACH	
2	EACH	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON
1	EACH	
1	EACH	MODIFY EXISTING CONTROLLER
1000		

REMOVE ELECTRIC CABLE FROM CONDUIT

REMOVE EXISTING CONCRETE FOUNDATION

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

EX. INTERCONNECT -TO YORK HOUSE RD

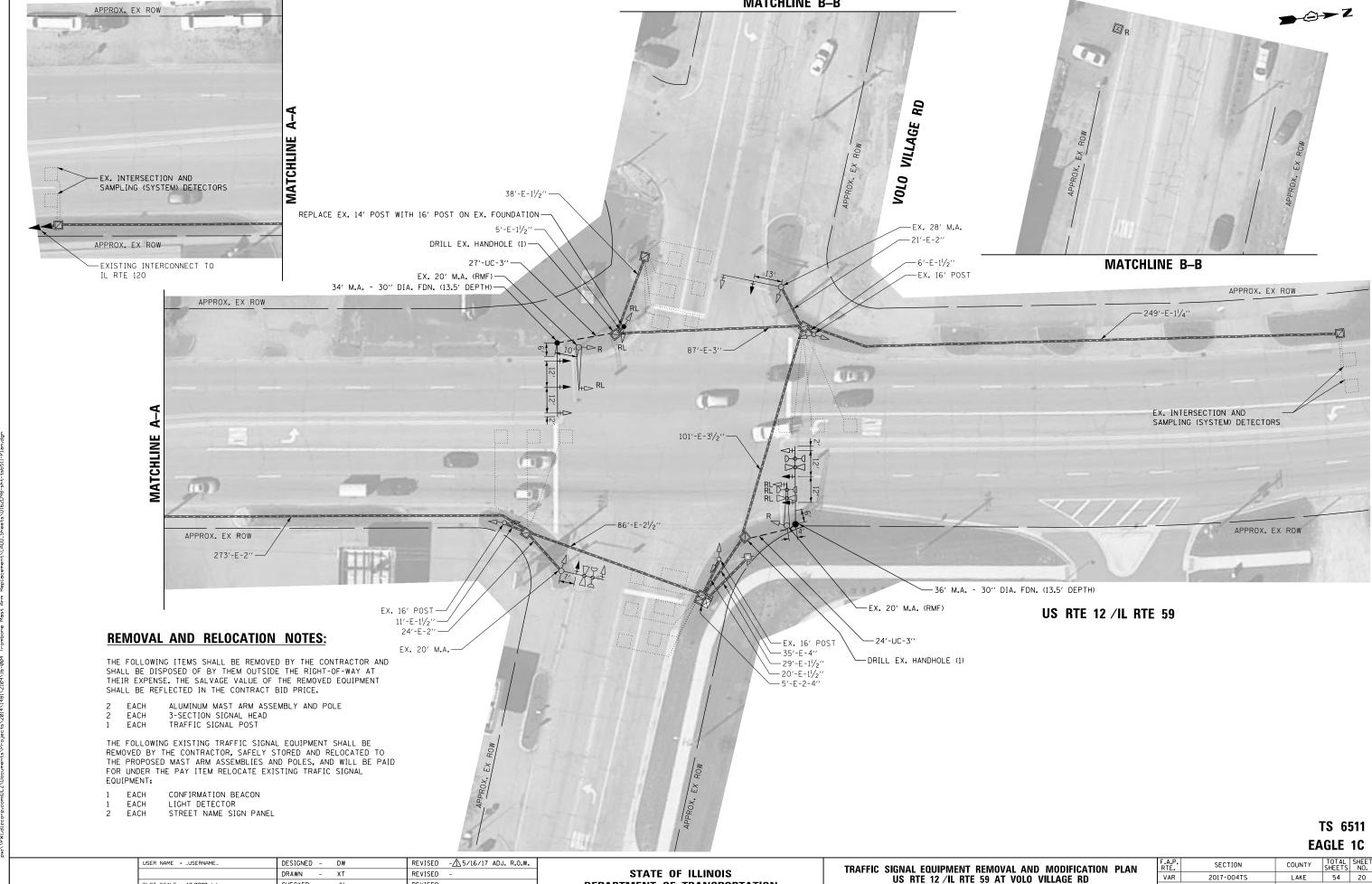
TRACER CABLE

CABLE PLAN (NOT TO SCALE)

BEACH

↑ ↑ 0 ≺ 2

SIGNAL PERMISSIVE ARROW PED. SIGNAL CONTROLLER VIDEO SYSTEM BLANK-OUT SIGN PTZ CAMERA STREET NAME SIGN LUMINAIRE



DEPARTMENT OF TRANSPORTATION

SCAEE20'

OF SHEETS STA.

CONTRACT NO. 62D98

MATCHLINE B-B

CHECKED -

DATE - 2/06/2017

PLOT DATE = 5/23/2017

REVISED

REVISED

LEGEND:

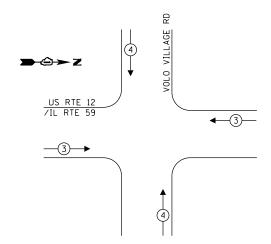
←(*)— PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√- (*)- PEDESTRIAN PHASE

♦ OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



- ELECTRICA		C SIGN. /ICE RE		NTS
	NO. OF	LED	7	TOTAL

	1101 01		/ *	10171
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
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	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	379.0

ENERGY COSTS TO:

VILLAGE OF VOLO 500 SOUTH FISH LAKE ROAD VOLO, IL 60073

ENERGY SUPPLY: CONTACT: TERRI BLECK

PHONE: 847-816-5239 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER:

INDIVIDEIX.				
	USER	NAME	=	_USERNAME_

USER NAME = _USERNAME_	DESIGNED - DW	REVISED -	
	DRAWN - XT	REVISED -	
PLOT SCALE = 40.0000 '/ in.	CHECKED - JH	REVISED -	
PLOT DATE = 4/5/2017	DATE - 2/06/2017	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES US RTE 12 /IL RTE 59 AT VOLO VILLAGE RD SCALE: N.T.S. SHEET OF SHEETS STA.

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COUNTY TOTAL SHEET NO.

LAKE 54 21 SECTION 2017-004TS VAR CONTRACT NO. 62D98

TS 6511

EAGLE 1C

-EX. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

EX. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

TRACER CABLE

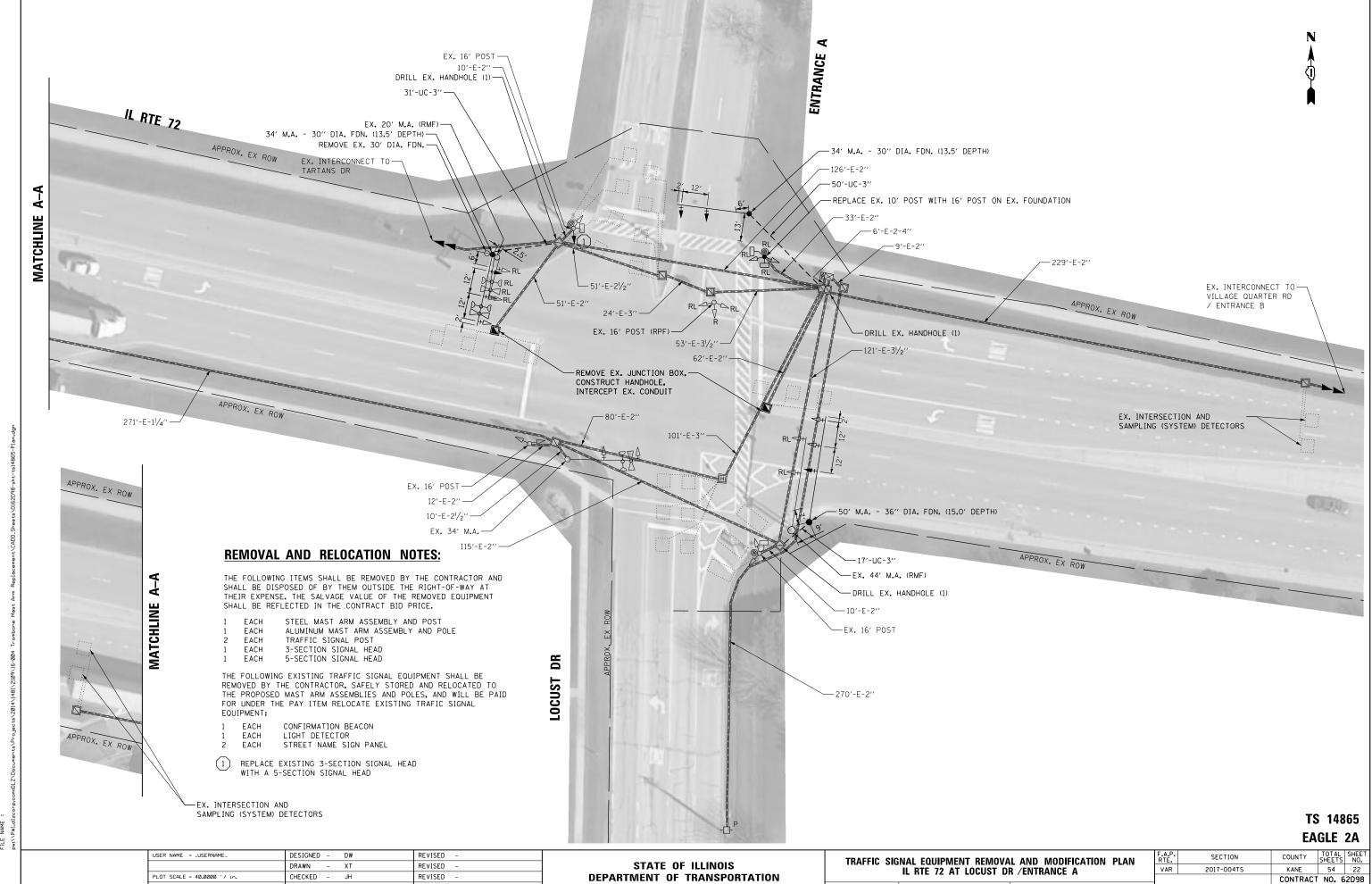
EXISTING INTERCONNECT TO IL RTE 120 (BELVIDERE RD)

EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

SCHEDU	LE OF O	<u>NUANTITIES</u>	M /	. — — — — — — — — — — — — — — — — — — —	
51 1 147 1322 496 73 1	UNIT FOOT EACH FOOT FOOT FOOT FOOT EACH EACH	ITEM UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. STEEL MAST ARM ASSEMBLY AND POLE. 34 FT.		VOLO VILLAGE	=
1 27 2 6 6 4 1 786 1 1 2	EACH FOOT EACH EACH EACH EACH FOOT EACH EACH EACH EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC RELOCATE EXISTING SIGNAL HEAD RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING HANDHOLE REMOVE EXISTING CONCRETE FOUNDATION REMOVE AND REPLACE ANCHOR BOLTS		CABLE PLAN (NOT TO SCALE)	

US RTE 12 /IL RTE 59

RL



- 2/06/2017

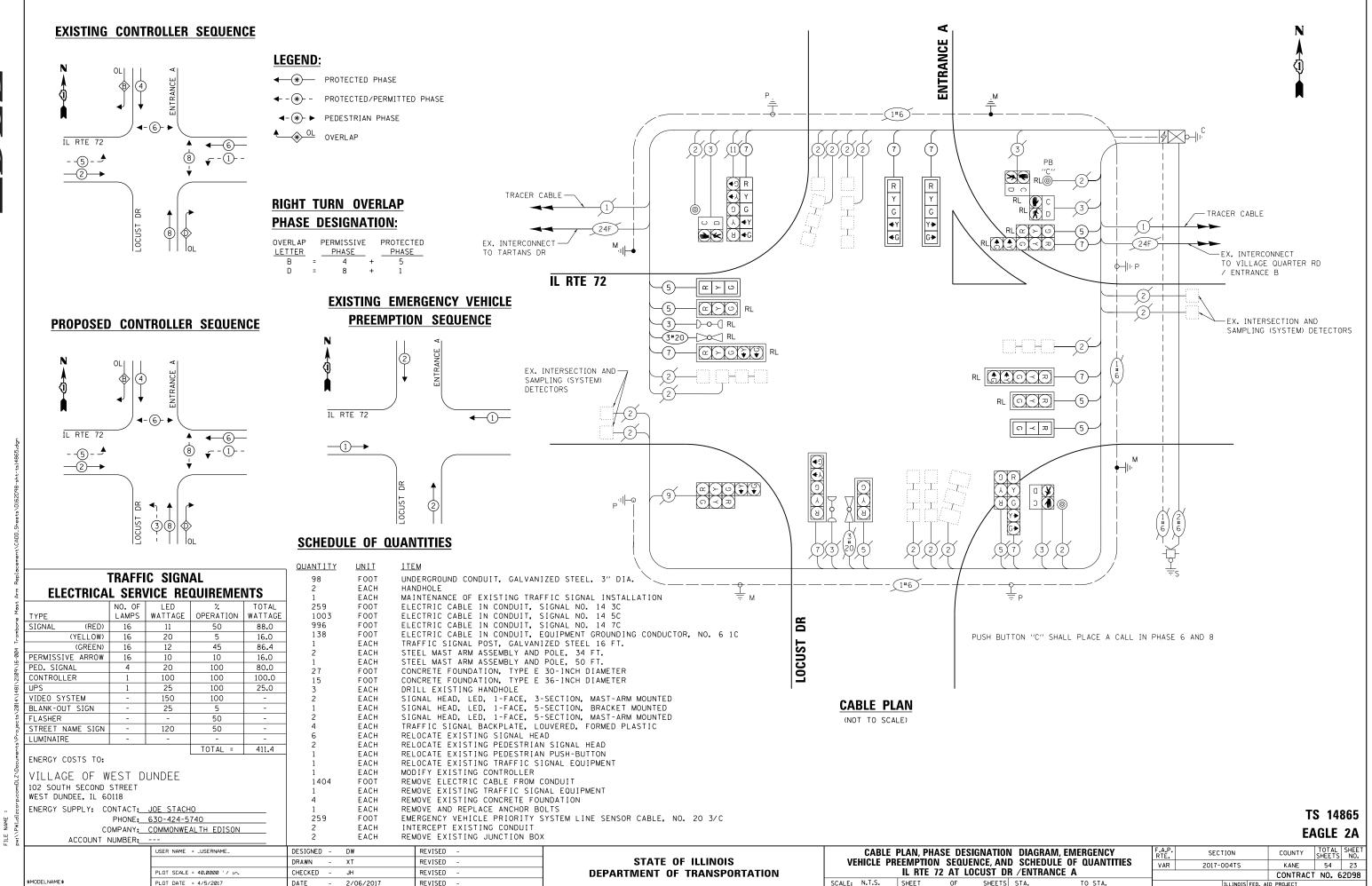
REVISED

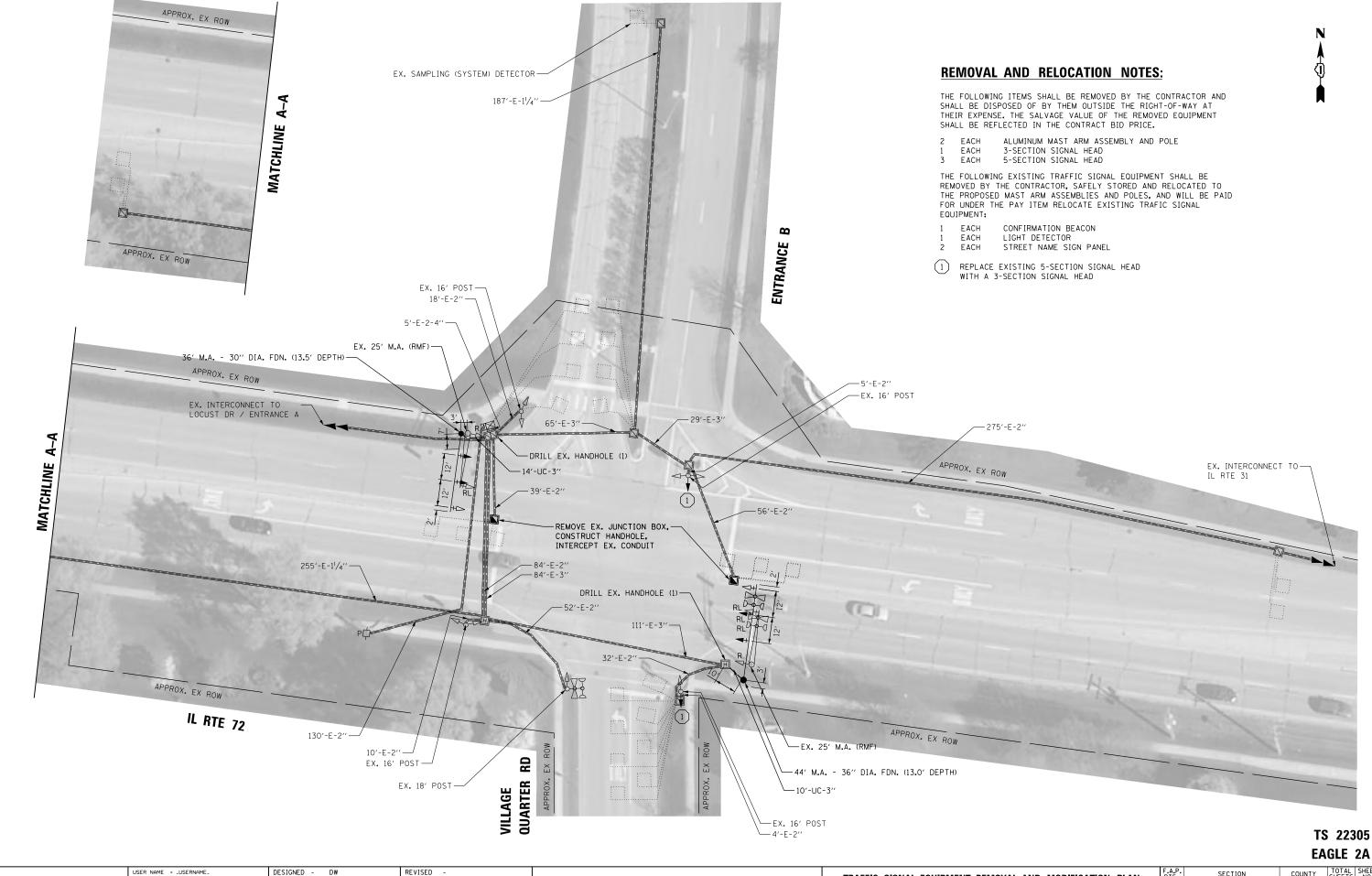
DATE

PLOT DATE = 4/5/2017

SCALE: 1" = 20' SHEET

OF SHEETS STA.





STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DRAWN

DATE

PLOT DATE = 4/5/2017

CHECKED -

- XT

- 2/06/2017

REVISED

REVISED

REVISED

COUNTY TOTAL SHEET NO.

KANE 54 24 CONTRACT NO. 62D98

SECTION

2017-004TS

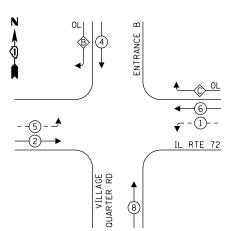
VAR

TRAFFIC SIGNAL EQUIPMENT REMOVAL AND MODIFICATION PLAN

IL RTE 72 AT VILLAGE QUARTER RD /ENTRANCE B

OF SHEETS STA.

SCALE: 1" = 20' SHEET



LEGEND:

◆ (*) PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

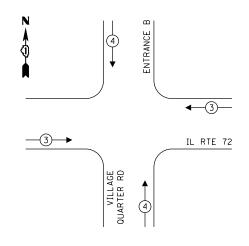
√-(*)- ► PEDESTRIAN PHASE

♦ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP PERMISSIVE PROTECTED <u>PHASE</u> <u>PHASE</u> + 5 <u>LETTER</u> CONTINOUS FLOW

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL

TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	0	20	100	0.0
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 -	22F /

VILLAGE OF WEST DUNDEE 102 SOUTH SECOND STREET

ENERGY SUPPLY: CONTACT: JOE STACHO

PHONE: 630-424-5704 COMPANY: COMMONWEALTH EDISON **SCHEDULE OF QUANTITIES** QUANTITY <u>UNIT</u>

FOOT UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. 24 HANDHOLE EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH 308 FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C 475 FOOT 53 FOOT EACH STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.

STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.

CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER

CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER

DRILL EXISTING HANDHOLE

SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED

SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED

SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED

TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC

RELOCATE FXISTING SIGNAL HEAD EACH 13.5 FOOT FOOT EACH EACH FACH FACH EACH RELOCATE EXISTING SIGNAL HEAD
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH EACH REMOVE ELECTRIC CABLE FROM CONDUIT 967 FOOT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH REMOVE EXISTING CONCRETE FOUNDATION EACH 308 FOOT EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C INTERCEPT EXISTING CONDUIT REMOVE EXISTING JUNCTION BOX

TS 22305 **EAGLE 2A**

USER NAME = _USERNAME_ DESIGNED - DW REVISED DRAWN - XT REVISED PLOT SCALE = 40.0000 '/ in. CHECKED -REVISED PLOT DATE = 4/5/2017 DATE - 2/06/2017 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

EX. SAMPLING (SYSTEM)

(1#6)

[1#6]

CABLE PLAN

QUARTER

ENTRANCE

DETECTOR

- TRACER CABLE

INTERCONNECT TO LOCUST DR/ ENTRANCE A

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CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES VAR IL RTE 72 AT VILLAGE QUARTER RD /ENTRANCE B SCALE: N.T.S. SHEET OF SHEETS STA.

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COUNTY TOTAL SHEET NO. KANE 54 25 SECTION 2017-004TS CONTRACT NO. 62D98

-TRACER CABLE

-EX. INTERCONNECT

TO IL RTE 31

IL RTE 72

36F

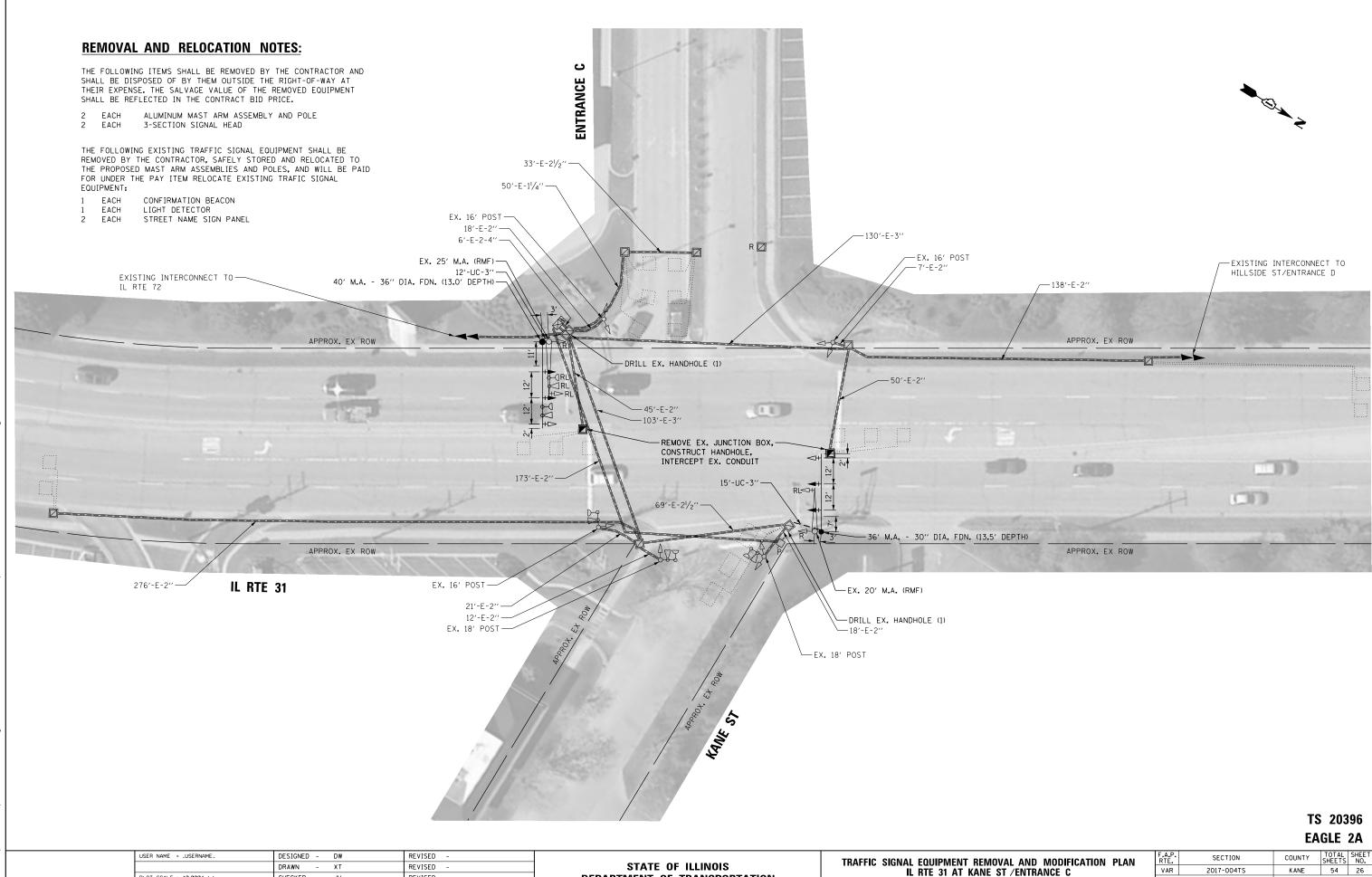
ELECTRICAL SERVICE REQUIREMENTS NO. OF LED % TOTAL

TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	0	20	100	0.0
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 =	335.4

ENERGY COSTS TO:

WEST DUNDEE, IL 60118

ACCOUNT NUMBER:



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL AND MODIFICATION PLAN

IL RTE 31 AT KANE ST /ENTRANCE C

OF SHEETS STA.

SCALE: 1" = 20' SHEET

2017-004TS

CONTRACT NO. 62D98

VAR

TO STA.

DRAWN - XT

DATE - 2/06/2017

CHECKED -

PLOT DATE = 4/5/2017

REVISED

REVISED

REVISED

LEGEND:

←(*)— PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

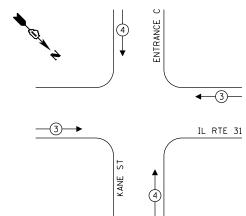
√-(*)- ► PEDESTRIAN PHASE

OVERLAP OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

 $\begin{array}{c|cccc} \text{OVERLAP} & \text{PERMISSIVE} & \text{PROTECTED} \\ \underline{\text{LETTER}} & \underline{\text{PHASE}} & \underline{\text{PHASE}} & \underline{\text{PHASE}} \\ B & = & 4 & + & 5 \end{array}$

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



IL RTE 31

TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	7.	TOTAL
TYPE	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	12	10	10	12.0
PED. SIGNAL	0	20	100	0.0
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 =	303.6

ENERGY COSTS TO:

VILLAGE OF WEST DUNDEE 102 SOUTH SECOND STREET WEST DUNDEE, IL 60118

ENERGY SUPPLY: CONTACT: JOE STACHO

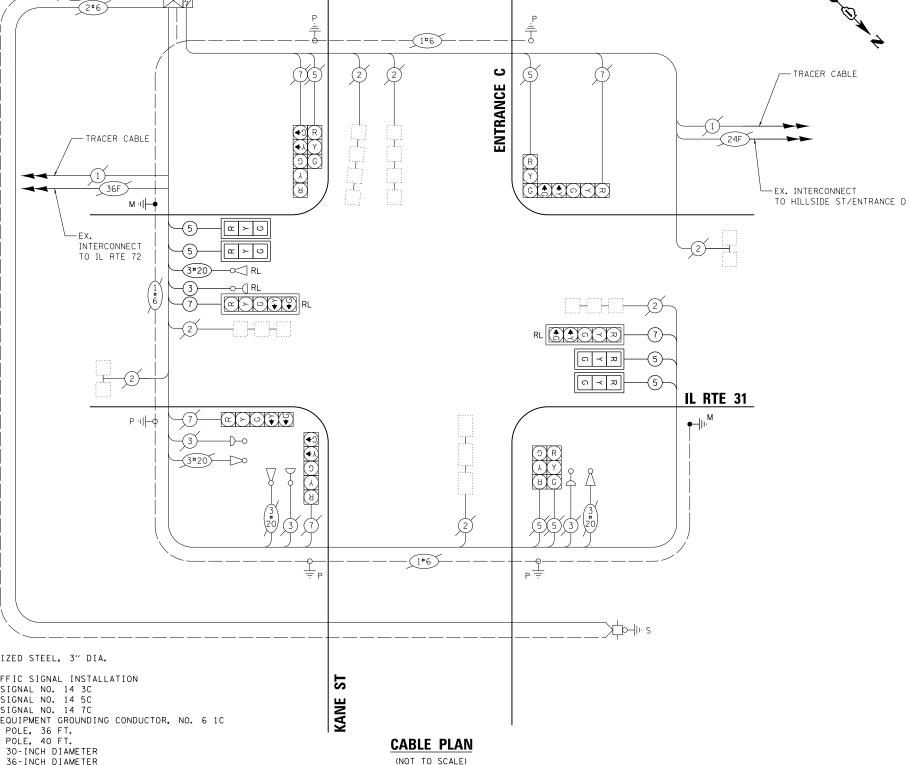
PHONE: 630-424-5704 COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:

USER NAME = _USERNAME_ DESIGNED - DW REVISED DRAWN - XT REVISED PLOT SCALE = 40.0000 '/ in. CHECKED - JH REVISED PLOT DATE = 4/5/2017 DATE - 2/06/2017 REVISED

SCHEDULE OF QUANTITIES

<u>YTITMAUC</u>	<u>UNIT</u>	<u>ITEM</u>
27	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
2	EACH	HANDHOLE
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
99	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
690	FOOT	ELECTRIC CABLE IN CONDUIT. SIGNAL NO. 14 5C
381	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
56	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 10
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
13.5	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
13	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
2	EACH	DRILL EXISTING HANDHOLE
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
2	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
511	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
2	EACH	REMOVE EXISTING CONCRETE FOUNDATION
99	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
2	EACH	INTERCEPT EXISTING CONDUIT
2	EACH	REMOVE EXISTING JUNCTION BOX

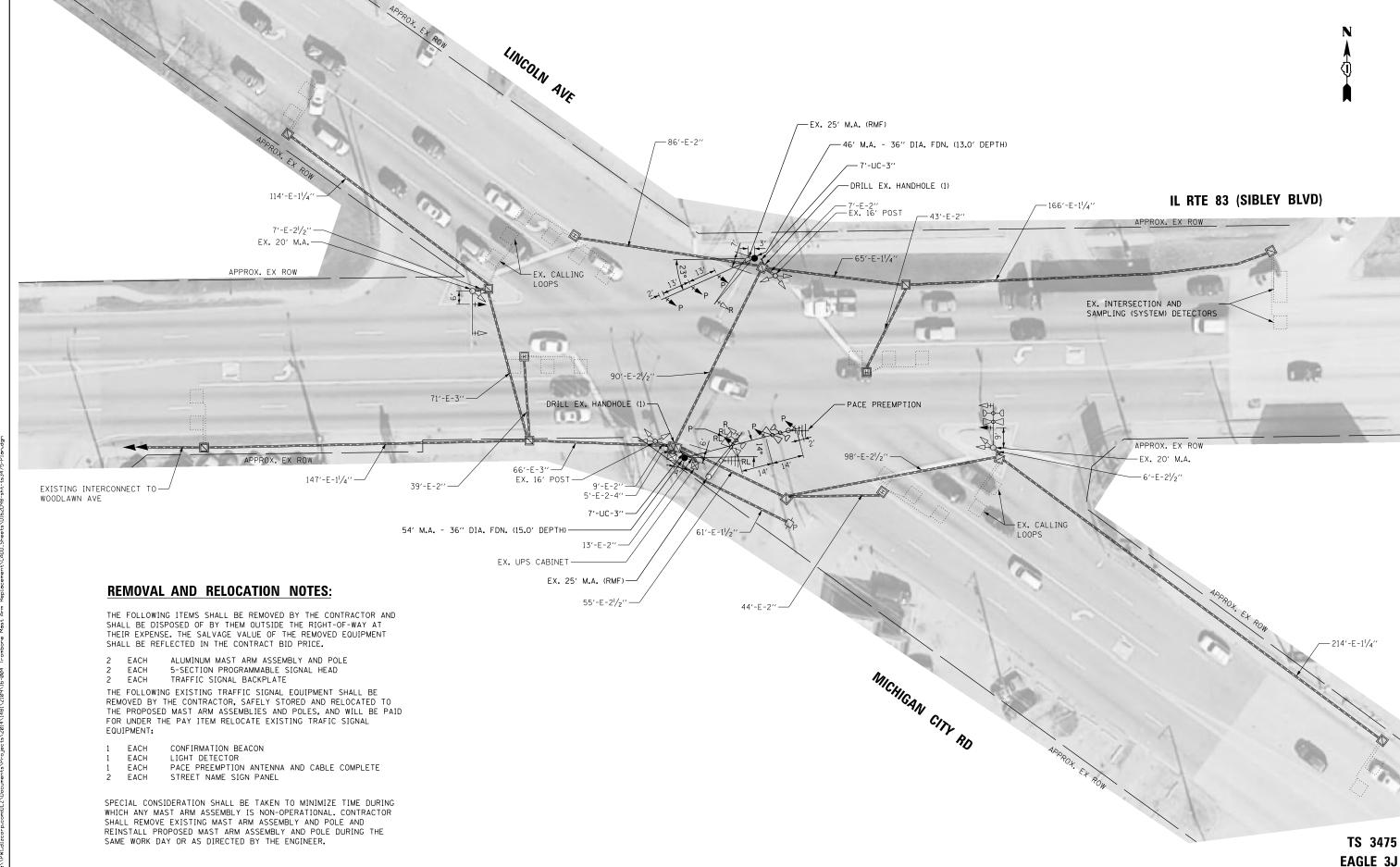


TS 20396 **EAGLE 2A**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES IL RTE 31 AT KANE ST /ENTRANCE C STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SCALE: N.T.S. SHEET OF SHEETS STA.

COUNTY TOTAL SHEET NO.

KANE 54 27 SECTION 2017-004TS VAR CONTRACT NO. 62D98



FILE NAME =

\$MODELNAME\$

 USER NAME
 = LUSERNAME.
 DESIGNED
 DW
 REVISED

 DRAWN
 XT
 REVISED

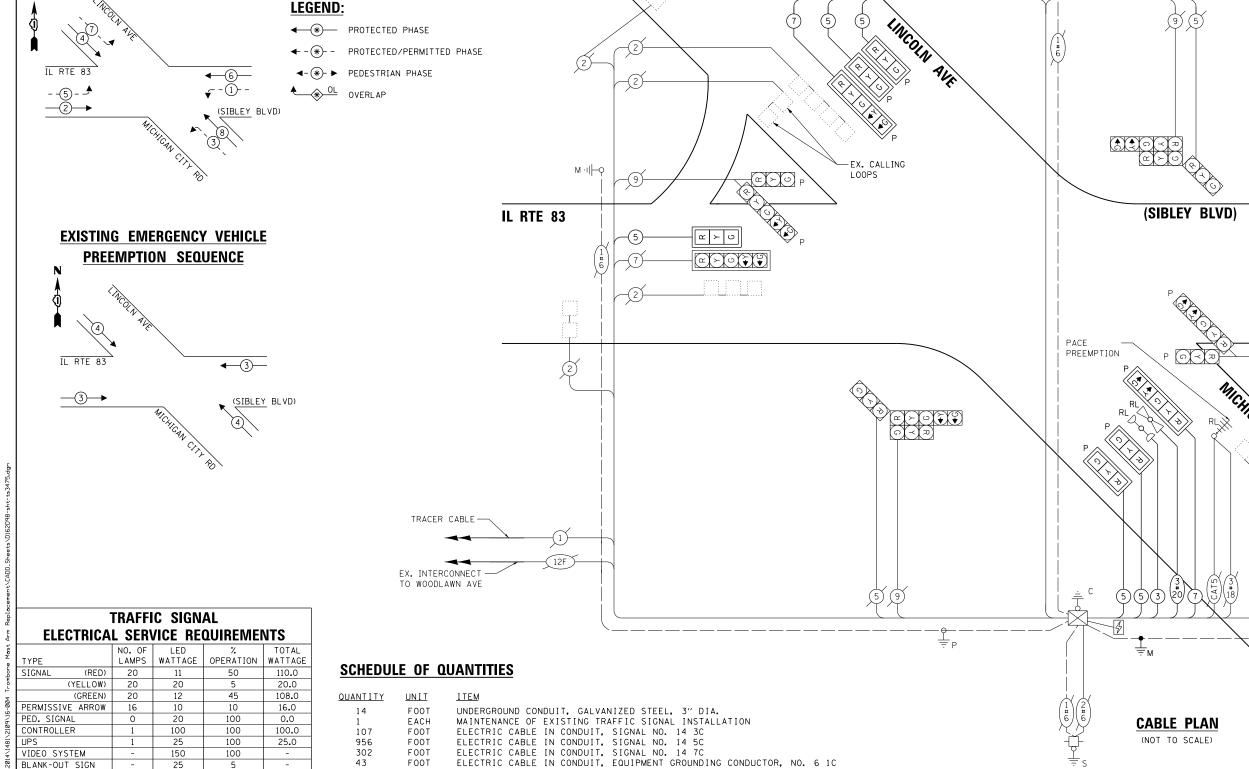
 PLOT SCALE = 40.0000 ' / in.
 CHECKED
 JH
 REVISED

 PLOT DATE
 = 4/5/2017
 DATE
 2/06/2017
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL AND MODIFICATION PLAN IL RTE 83 (SIBLEY BLVD) AT LINCOLN AVE /MICHIGAN CITY RD

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



STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.

CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER

DRILL EXISTING HANDHOLE
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT

EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.

REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

REMOVE EXISTING CONCRETE FOUNDATION

BLANK-OUT SIGN 25 FLASHER 50 STREET NAME SIGN 120 50 LUMINAIRE TOTAL = 379.0

EXISTING CONTROLLER SEQUENCE

ENERGY COSTS TO:

VILLAGE OF DOLTON 14122 CHICAGO ROAD

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN

ACCOUNT NUMBER:

USER NAME = _USERNAME_ DESIGNED - DW REVISED DRAWN - XT REVISED CHECKED -REVISED PLOT DATE = 4/5/2017 DATE REVISED - 2/06/2017

187

107

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES IL RTE 83 (SIBLEY BLVD) AT LINCOLN AVE/MICHIGAN CITY RD SCALE: N.T.S. SHEET SHEETS STA. OF

SECTION COUNTY COOK 54 29 2017-004TS CONTRACT NO. 62D98

VAR

TS 3475

EAGLE 3J

-EX. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

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CALLING

L00PS

DOLTON, IL 60419

PHONE: 708-235-2692 COMPANY: COMMONWEALTH EDISON

EACH

EACH

FOOT

FACH

EACH EACH

EACH

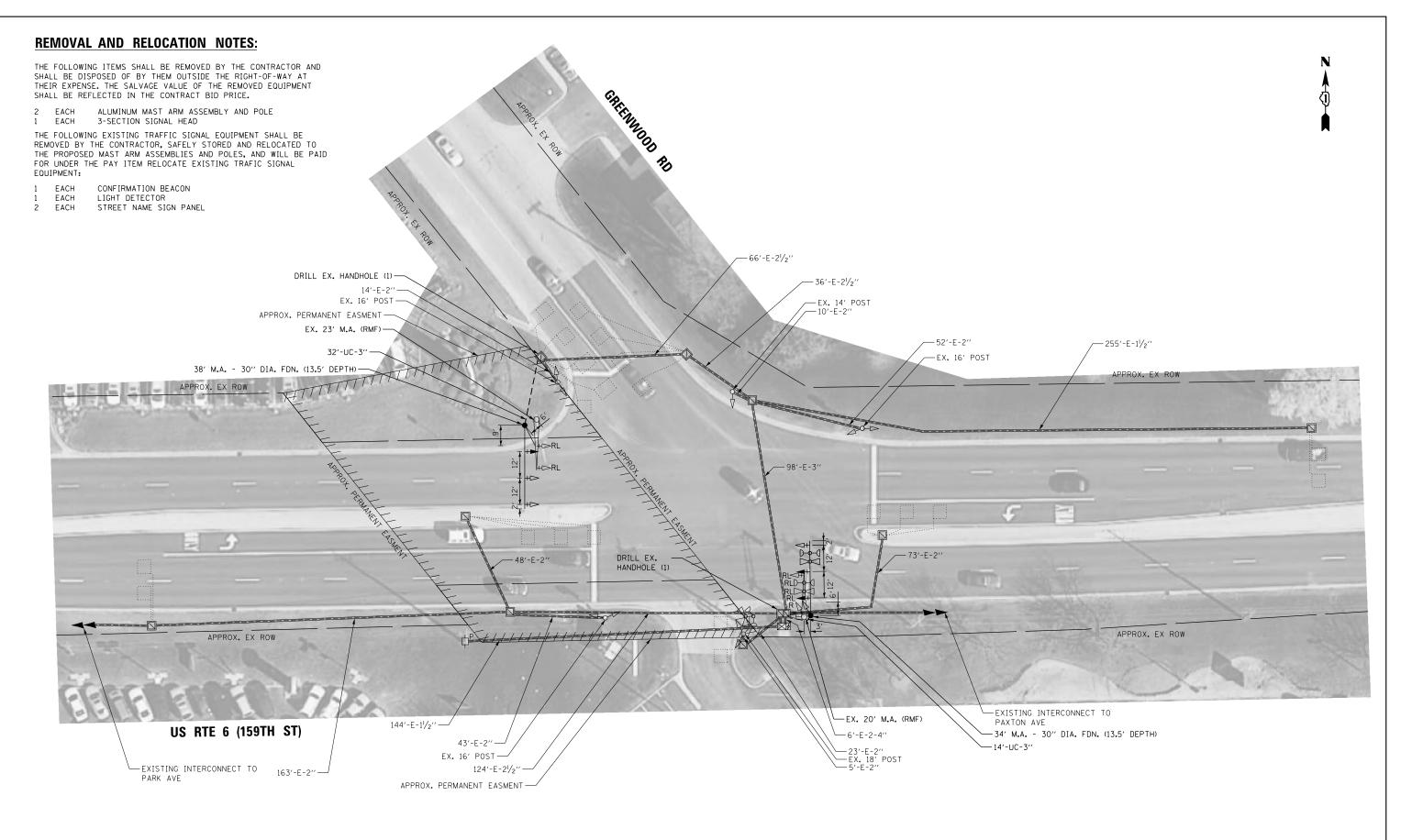
EACH

FOOT

EACH

EACH



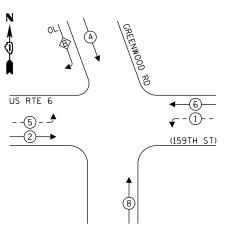


TS 230 ECON 49

USER NAME = _USERNAME_	DESIGNED - DW	REVISED - <u>1</u> 5/16/17 ADJ. R.O.W.		TDAEEIC CIC	NIAI EAIII	DMENT	DEMOVA	I AND MOI	DIFICATION PLAN	F.A.P.	SECTION	COUNTY	SHEETS	NO.
	DRAWN - XT	REVISED -	STATE OF ILLINOIS	INAFFIC SIC	US RTE 6			GREENWOOI		VAR	2017-004TS	соок	54	30
PLOT SCALE = 40.0000 '/ in.	CHECKED - JH	REVISED -	DEPARTMENT OF TRANSPORTATION		00 1111 0	(133111	טון או	dilLLivvooi	5 HB			CONTRACT	NO. 6	2D98
\$MODELNAME\$ PLOT DATE = 5/16/2017	DATE - 2/06/2017	REVISED -		SCALE: 1" = 20'	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



EXISTING CONTROLLER SEQUENCE



LEGEND:

◆ (*) PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

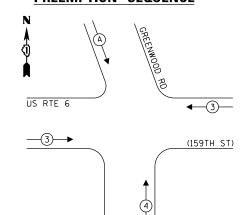
√-(*)- ► PEDESTRIAN PHASE

OVERLAP OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP		PERMISSIVE		PROTECTED
LETTER		PHASE		PHASE
	_		+	

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS** NO. OF LED % TOTAL

TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL		20	100	-
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 =	327.4

ENERGY COSTS TO:

CITY OF CALUMET CITY 204 PULASKI RD

CALUMET CITY, IL 60409

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN

PHONE: 708-235-2692 COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:

USER NAME = _USERNAME_ DESIGNED - DW REVISED DRAWN - XT REVISED CHECKED - JH REVISED PLOT DATE = 4/5/2017 DATE - 2/06/2017 REVISED

431

654

FOOT EACH

FACH

EACH EACH

FACH

FOOT

EACH

EACH

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C

CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER DRILL EXISTING HANDHOLE

DRILL EXISTING HANDHOLE
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
RELOCATE EXISTING SIGNAL HEAD
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT

STEEL MAST ARM ASSEMBLY AND POLE, 34 FT. STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.

REMOVE ELECTRIC CABLE FROM CONDUIT

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING CONCRETE FOUNDATION

ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C

EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES US RTE 6 (159TH ST) AT GREENWOOD RD SCALE: N.T.S. SHEET

COUNTY TOTAL SHEET NO.

COOK 54 31 SECTION 2017-004TS VAR CONTRACT NO. 62D98 OF SHEETS STA.

US RTE 6	-5 <u>a</u> >0	
	-5	
		$\begin{array}{c c} RL & \hline \\ \hline \\ RL & \hline \\ \hline \\ \hline \\ RL & \hline \\ \hline$
	<u> 2</u> HH	RL 3#20
		(159TH ST)
	7	RL 5
EXISTING INTERCONNECT TO PARK AVE P.II		EXISTING INTERCONNECT TO PAXTON AVE
TRACER CABLE		TRACER CABLE
SCHEDULE OF QUANTITIES	S -III-0 1#6	
QUANTITY UNIT ITEM 46 FOOT UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.		
1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLA	ATION	

CABLE PLAN

(NOT TO SCALE)

(1#6)

R (49) Y (4), G (9)

GREENWOOD RD

TS 230 ECON 49

TS 11840 ECON 48

۱ ۱		USER NAME = _USERNAME_	DESIGNED - DW	REVISED -					DE11011			F.A.P.	SECTION	COUNTY	TOTAL	SHEET
			DRAWN - XT	REVISED -	STATE OF ILLINOIS	TRAFFIC SIGNAL EQUIPMENT REMOVAL AND MODIFICATION PLAN US RTE 34 (OGDEN AVE) AT OLD TAVERN RD		VAR	2017-004TS	DUPAGE	54 54	32				
		PLOT SCALE = 40.0000 ' / in.	CHECKED - JH	REVISED -	DEPARTMENT OF TRANSPORTATION	0	S HIL S	+ (OGDLI	W AVL) A	I OLD IA	WENN ND			CONTRAC	T NO. F	2D98
L	\$MODELNAME\$	PLOT DATE = 4/24/2017	DATE - 2/06/2017	REVISED -		SCALE: 1" = 20'	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

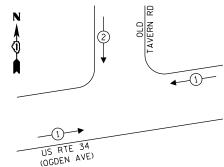
EX. 18' POST-

-EX. 20' M.A. (RMF)

LEGEND:

- **★**PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √-(*)- ► PEDESTRIAN PHASE
- OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



US RTE 34 (OGDEN AVE)

TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	7.	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	2	20	100	40.0
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 =	311.8

ENERGY COSTS TO:

VILLAGE OF LISLE 925 BURLINGTON AVE LISLE, IL 60532

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN

PHONE: 708-235-2692 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER: --

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
12	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
1	FACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
673	FOOT	ELECTRIC CABLE IN CONDUIT. SIGNAL NO. 14 5C
197	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
23	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.
13.5	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
1	EACH	DRILL EXISTING HANDHOLE
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
2	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
518	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING CONCRETE FOUNDATION
197	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

US RTE 34 (OGDEN AVE)

CABLE PLAN

(NOT TO SCALE)

B

TS 11840 ECON 48

COUNTY TOTAL SHEET NO.

DUPAGE 54 33

CONTRACT NO. 62D98

— EX. SAMPLING (SYSTEM) DETECTORS

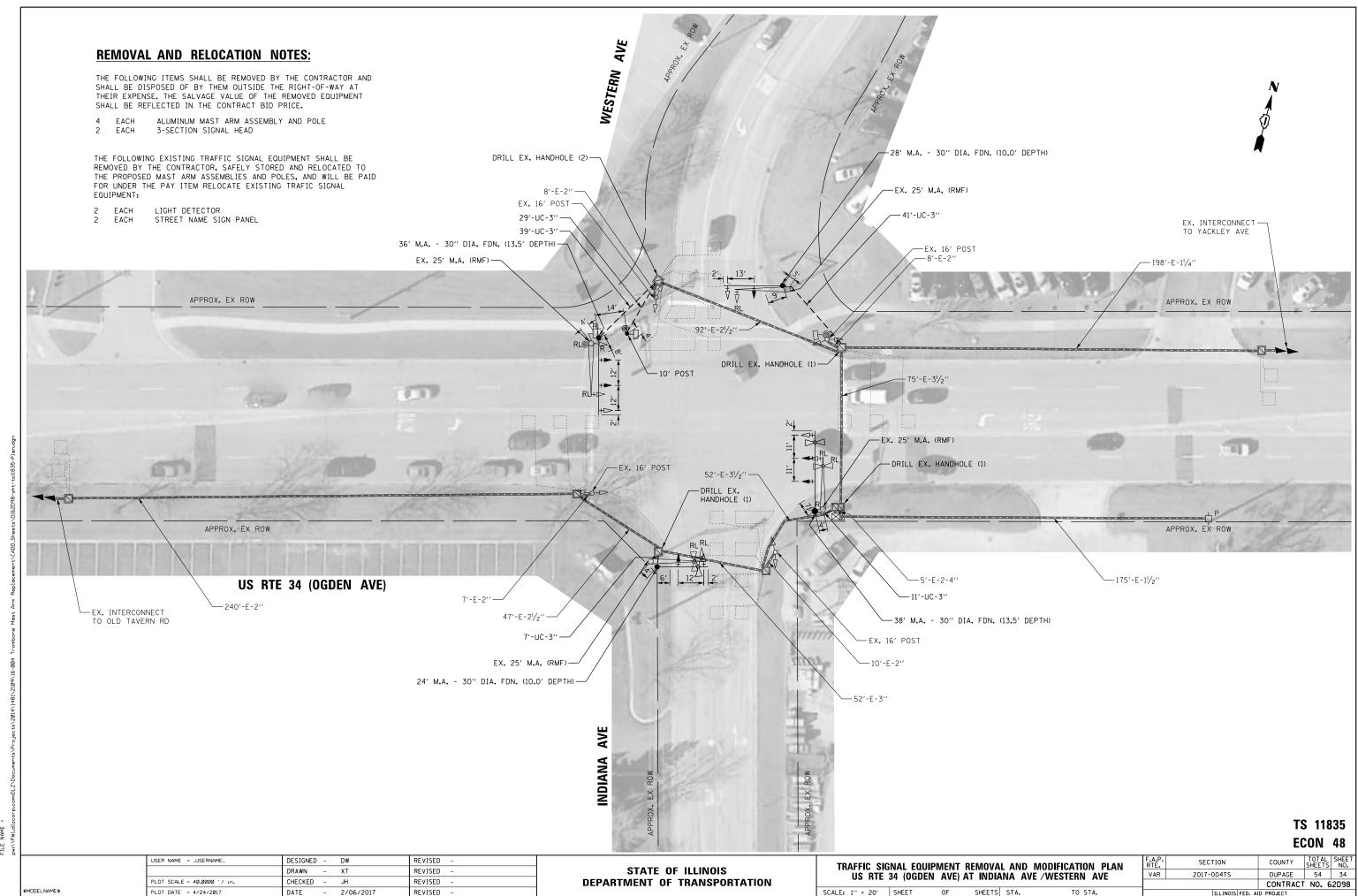
-EX. INTERCONNECT TO WESTERN/INDIANA AVE

TRACER CABLE

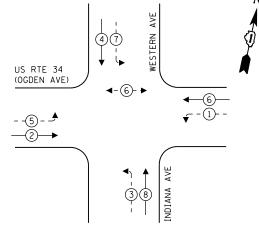
USER NAME = _USERNAME_ DESIGNED - DW REVISED DRAWN - XT REVISED PLOT SCALE = 40.0000 '/ in. CHECKED - JH REVISED PLOT DATE = 4/24/2017 DATE - 2/06/2017 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES SECTION 2017-004TS VAR US RTE 34 (OGDEN AVE) AT OLD TAVERN RD SCALE: N.T.S. SHEET OF SHEETS STA.

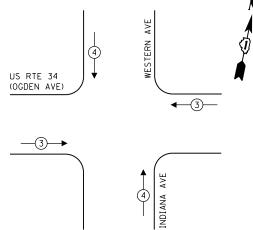






EXISTING CONTROLLER SEQUENCE

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



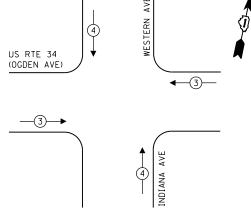
LEGEND:

←(*)— PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

* OL OVERLAP



TRAFFIC SIGNAL

		NO. OF	LED	7	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	18	11	50	99.0
	(YELLOW)	18	20	5	18.0
	(GREEN)	18	12	45	97.2
PERMISSI'	VE ARROW	16	10	10	16.0
PED. SIGN	NAL	2	20	100	40.0
CONTROLL	.ER	1	100	100	100.0
UPS		1	25	100	25.0
VIDEO SY	STEM	-	150	100	-
BLANK-OU	IT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET N	NAME SIGN	-	120	50	-
LUMINAIR	E	-	-	-	-
	-			TOTAL =	395.2

ELECTRICAL SERVICE REQUIREMENTS

ENERGY COSTS TO:

VILLAGE OF LISLE 925 BURLINGTON AVE LISLE, IL 60532

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN PHONE: 708-235-2692

COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER:

USER NAME = _USERNAME_ PLOT DATE = 4/24/2017

SCHEDULE OF QUANTITIES

REVISED

REVISED

REVISED

REVISED

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u> CABLE
127	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
1	EACH	
262	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
269	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1104	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
796	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
189	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
47	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
5	EACH	DRILL EXISTING HANDHOLE
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
4	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
1	EACH	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
1269	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	REMOVE EXISTING CONCRETE FOUNDATION
290	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES VAR US RTE 34 (OGDEN AVE) AT INDIANA AVE /WESTERN AVE SCALE: N.T.S. SHEET OF SHEETS STA.

TS 11835 ECON 48

DESIGNED - DW

DRAWN - XT

DATE - 2/06/2017

CHECKED -

EX. INTERCONNECT TO OLD TAVERN RD

US RTE 34 (OGDEN AVE)

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

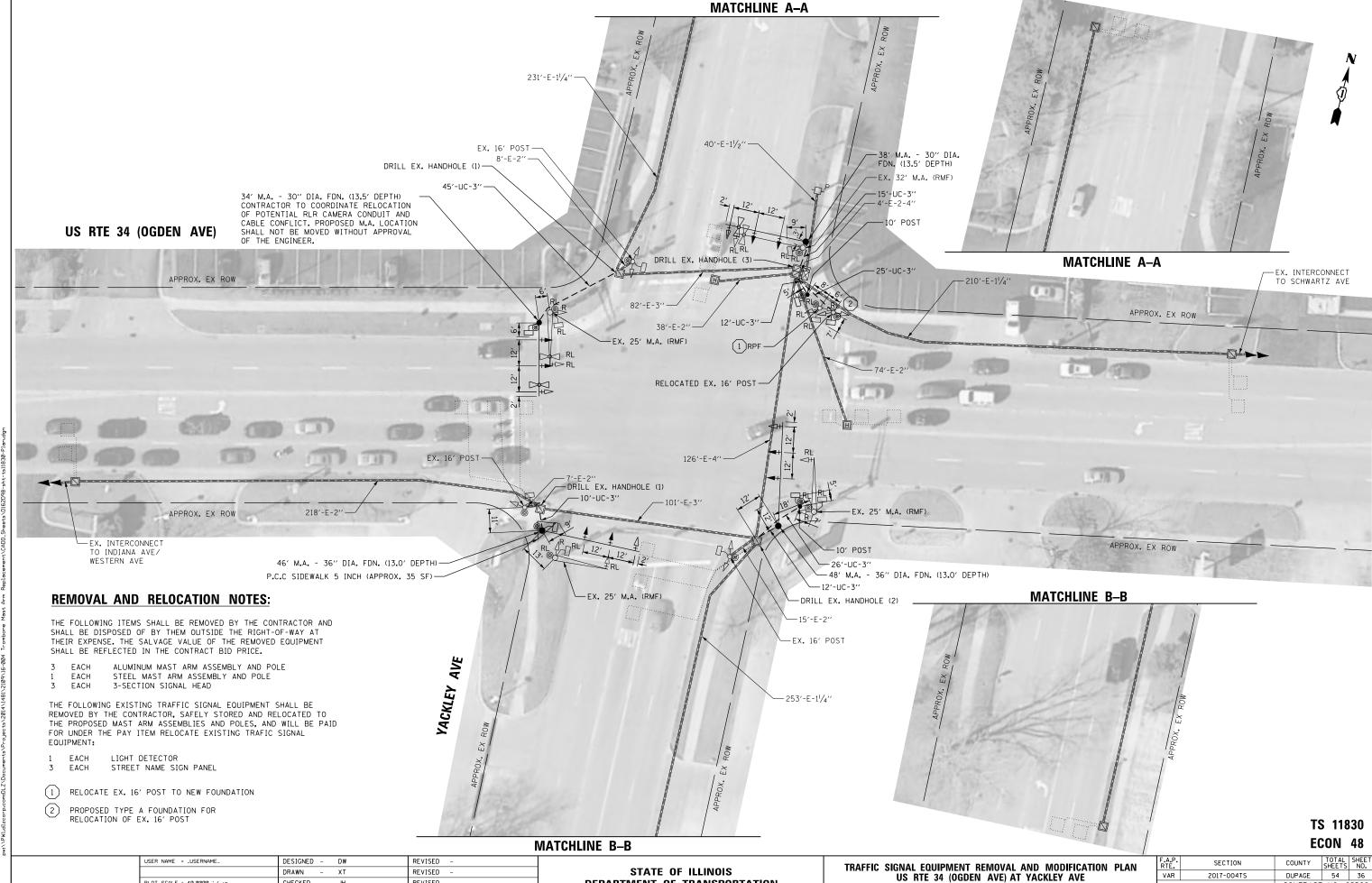
CABLE PLAN (NOT TO SCALE)

> COUNTY TOTAL SHEET NO.
>
> DUPAGE 54 35 SECTION 2017-004TS CONTRACT NO. 62D98

TRACER CABLE

-EX. INTERCONNECT

TO YACKLEY AVE



DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20' SHEET

OF SHEETS STA.

CONTRACT NO. 62D98

PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 4/24/2017

CHECKED -

DATE

- 2/06/2017

REVISED

REVISED

EXISTING CONTROLLER SEQUENCE

LEGEND:

←(*)— PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

◆
◆
PEDESTRIAN PHASE

Output

Description

PEDESTRIAN

PHASE

Output

Description

PHASE

P

* OL OVERLAP

YACKLEY AVE US RTE 34 (OGDEN AVE) EX. INTERCONNECT -TO INDIANA AVE/ WESTERN AVE **SCHEDULE OF QUANTITIES** TRACER -CABLE QUANTITY <u>UNIT</u> SQ FT PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION 145 NO OF LED % TOTAL

Т	RAFFIC	SIGN	AL	
ELECTRICAL	SERVIC	E REC	QUIREMEN	ITS

	I NO. OF	l LED	/•	IOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
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 =	539.0

ENERGY COSTS TO:

VILLAGE OF LISLE 925 BURLINGTON AVE

LISLE, IL 60532 ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN PHONE: 708-235-2692

COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER:

USER NAME = _USERNAME_

PLOT DATE = 4/24/2017

DRAWN

CHECKED -

- XT

DATE - 2/06/2017

REVISED

REVISED

REVISED

	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
	741	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
	776	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
	1724	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
	965	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
	245	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.
	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.
	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.
	12	FOOT	CONCRETE FOUNDATION, TYPE A
	27	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
	26	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
	7	EACH	DRILL EXISTING HANDHOLE
	8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
	6	EACH	RELOCATE EXISTING SIGNAL HEAD
	5	EACH	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
	5	EACH	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON
	1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL POST
	1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
	2440	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
	5	EACH	REMOVE EXISTING CONCRETE FOUNDATION
	318	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
	DESIGNED - DW		REVISED -
_			

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

TS 11830 ECON 48

-EX. INTERCONNECT TO SCHWARTZ AVE

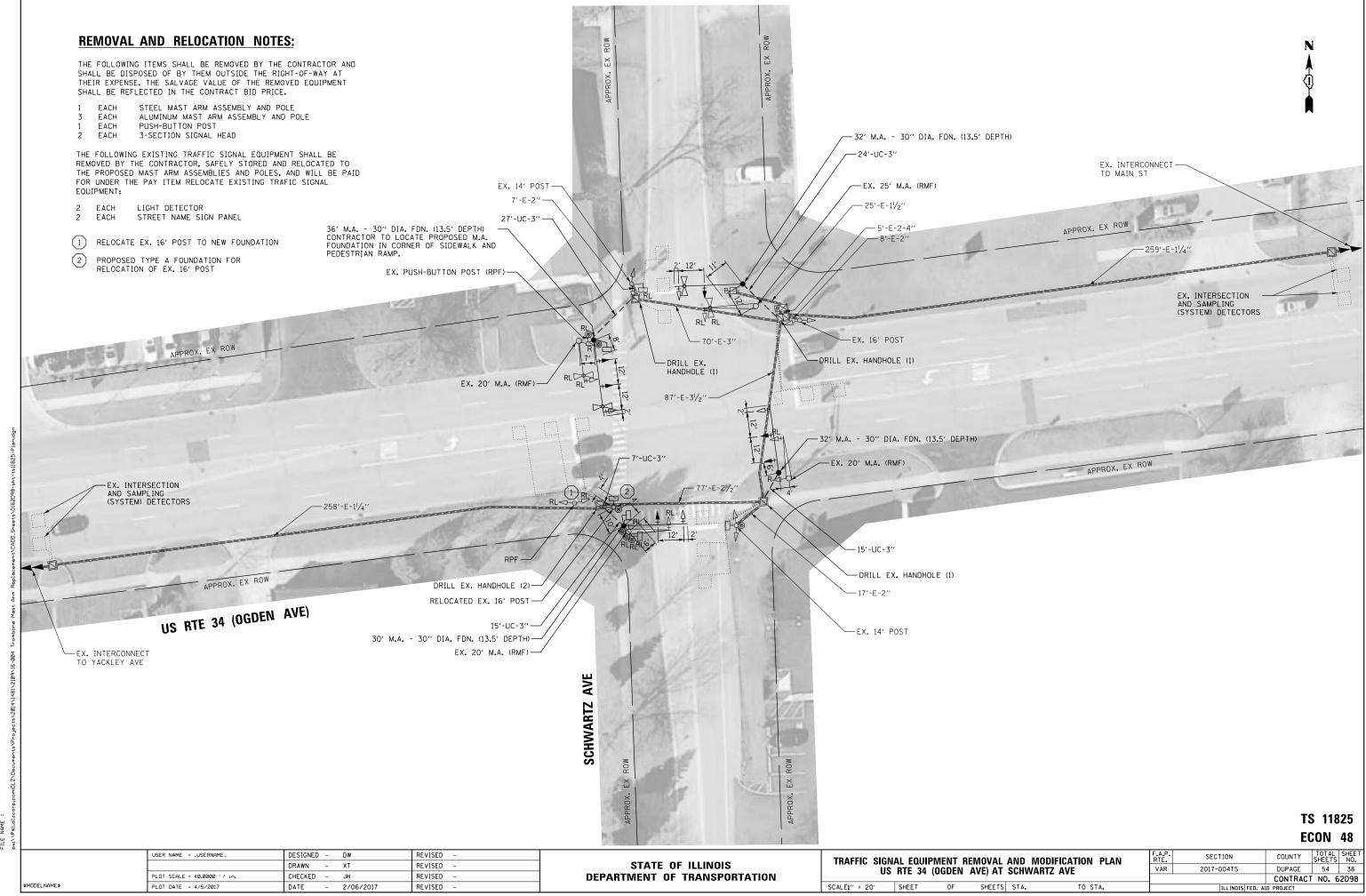
-TRACER CABLE

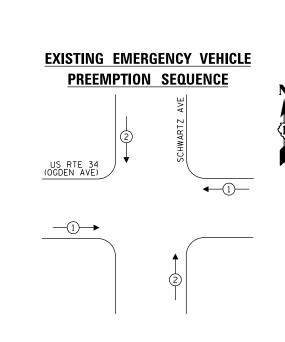
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES US RTE 34 (OGDEN AVE) AT YACKLEY AVE SCALE: N.T.S. SHEET OF SHEETS STA.

CABLE PLAN (NOT TO SCALE)

0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-004TS	DUPAGE	54	37
		CONTRACT	NO. 6	2D98
	ILLINOIS FED. AI	D PROJECT		





	11101 01		/ *	10171
TYPE	LAMPS	WATTAGE	OPERATION	WATTAG
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	4	20	100	80.0
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 -	127.2

LISLE, IL 60532

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN

USER NAME = _USERNAME_ DESIGNED - DW DRAWN - XT CHECKED - JH

←(*)— PROTECTED PHASE

SCHEDULE OF QUANTITIES

REVISED

REVISED

REVISED

REVISED

QUANTITY	<u>UNIT</u>	ITEM
88	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
1	EACH	
589	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
601	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1609	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
600	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
150	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
54	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
5	EACH	
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
6	EACH	RELOCATE EXISTING SIGNAL HEAD
3	EACH	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
3	EACH	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL POST
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
2200	FOOT	
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6	EACH	REMOVE EXISTING CONCRETE FOUNDATION
287	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
1 2200 1 6	EACH FOOT EACH EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE ELECTRIC CABLE FROM CONDUIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING CONCRETE FOUNDATION

TS 11825 ECON 48

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES US RTE 34 (OGDEN AVE) AT SCHWARTZ AVE SCALE: N.T.S. SHEET OF SHEETS STA.

CABLE PLAN

(NOT TO SCALE)

COUNTY TOTAL SHEET NO.

DUPAGE 54 39 SECTION 2017-004TS VAR CONTRACT NO. 62D98

-TRACER CABLE

-EX. INTERCONNECT TO MAIN ST

-EX. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

COMPANY: COMMONWEALTH EDISON

EXISTING CONTROLLER SEQUENCE

▼ 4-2)- **▶**

US RTE 34 (OGDEN AVE)

LEGEND:

US RTE 34

(OGDEN AVE)

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SCHWARTZ AVE

9 R A Y U

7

A (C)

EX. INTERCONNECT — TO YACKLEY AVE

TRACER-CABLE

EX. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

* OL OVERLAP

√-(*)- ► PEDESTRIAN PHASE

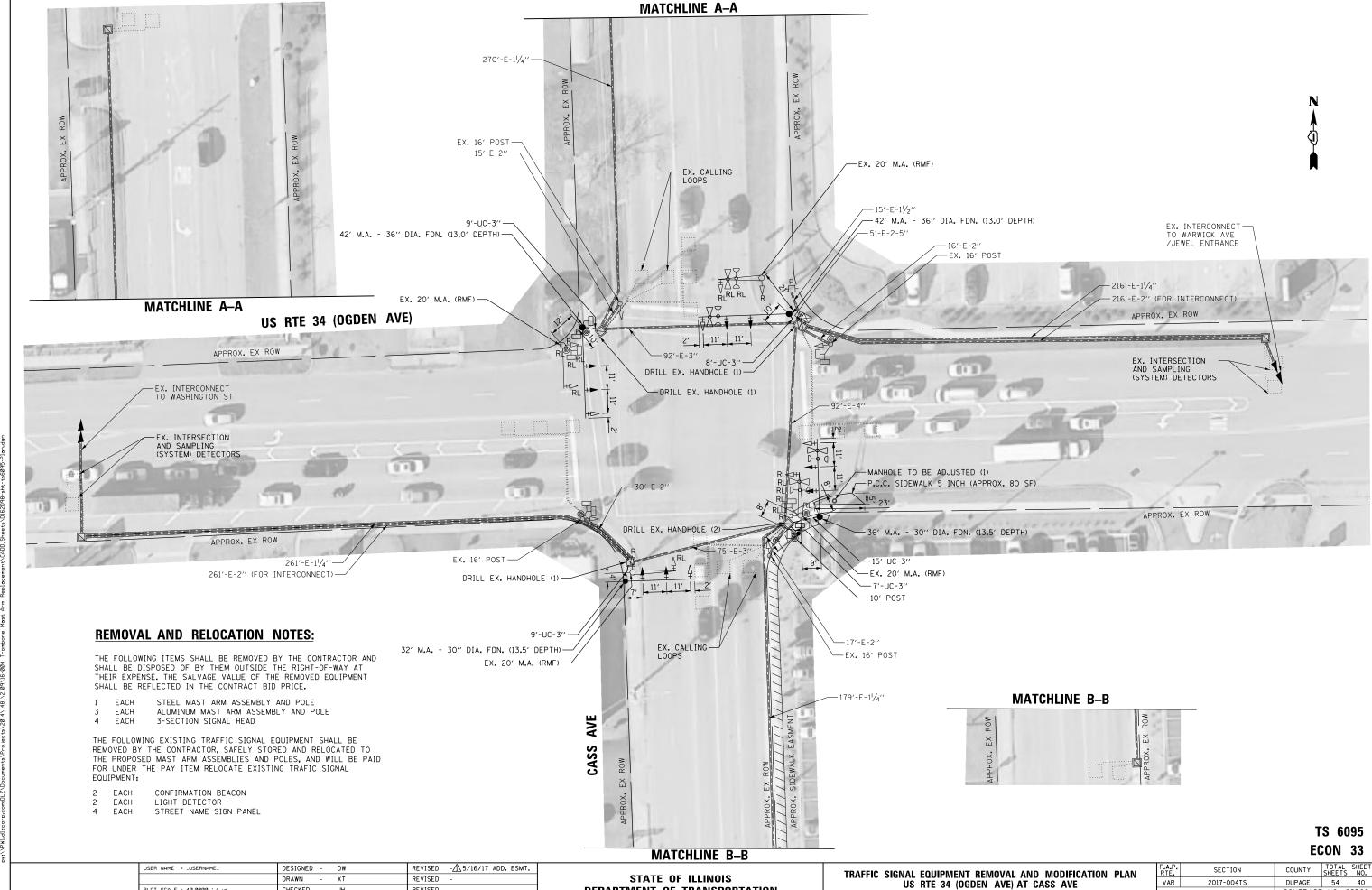
← -(*)- - PROTECTED/PERMITTED PHASE

TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS** NO. OF LED

TOTAL = 427.2 ENERGY COSTS TO: VILLAGE OF LISLE 925 BURLINGTON AVE

> PHONE: 708-235-2692 ACCOUNT NUMBER:

PLOT DATE = 4/5/2017 DATE - 2/06/2017



DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20' SHEET

OF SHEETS STA.

CONTRACT NO. 62D98

CHECKED - JH

DATE - 2/06/2017

PLOT DATE = 5/16/2017

REVISED

REVISED

PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 4/5/2017

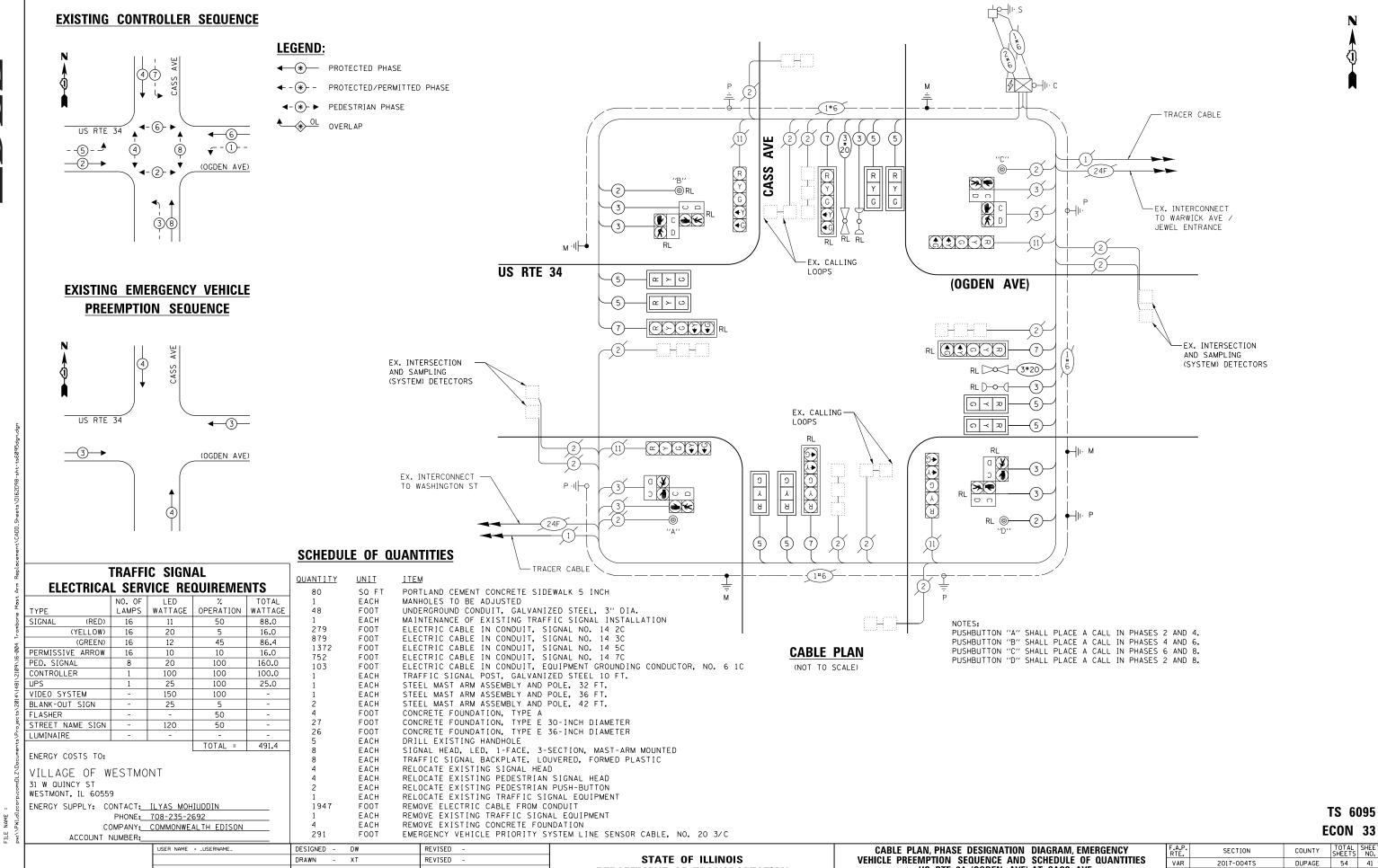
CHECKED -

- 2/06/2017

DATE

REVISED

REVISED



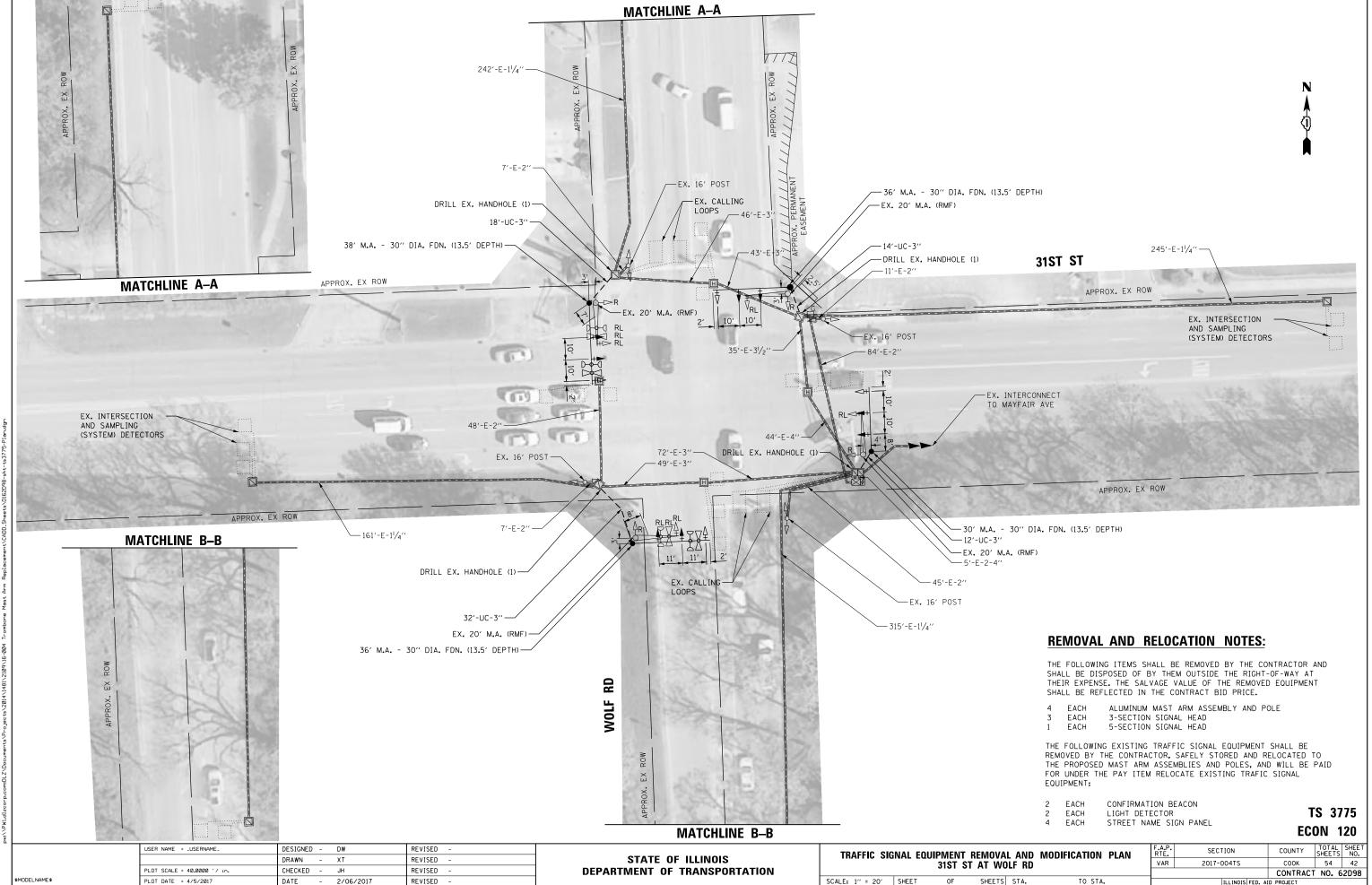
DEPARTMENT OF TRANSPORTATION

US RTE 34 (OGDEN AVE) AT CASS AVE

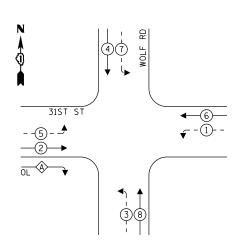
SHEET

SHEETS STA.

CONTRACT NO. 62D98



FILE NAME =



←(*)— PROTECTED PHASE

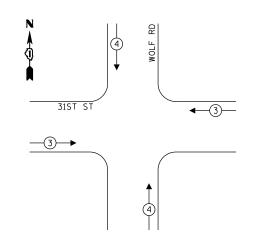
← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

◆ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS** NO. OF LED % TOTAL

TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	-	20	100	-
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 =	383.0

ENERGY COSTS TO:

VILLAGE OF WESTCHESTER 10300 WEST ROOSEVELT RD WESTCHESTER, IL 60154

ENERGY SUPPLY: CONTACT: JOE STACHO

PHONE: 630-424-5704 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER:

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
76	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
545	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1450	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
888	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
127	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 10
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
54	FOOT	
4	EACH	
7	EACH	
1	EACH	
8	EACH	,,
4	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	
1766	FOOT	
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	
536	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

31ST ST

EX. INTERSECTION

(SYSTEM) DETECTORS

AND SAMPLING

TS 3775 **ECON 120**

COUNTY TOTAL SHEET NO.

COOK 54 43

CONTRACT NO. 62D98

N

EX. INTERSECTION AND SAMPLING

(SYSTEM) DETECTORS

TRACER CABLE

EX. INTERCONNECT

TO MAYFAIR AVE

USER NAME = _USERNAME_ DESIGNED - DW REVISED DRAWN - XT REVISED PLOT SCALE = 40.0000 '/ in. CHECKED - JH REVISED PLOT DATE = 4/5/2017 DATE - 2/06/2017 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

<u>~</u> ≻ ∪

-COC RL

CEXT SOLVE RL

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES SECTION 2017-004TS VAR 31ST ST AT WOLF RD SHEETS STA. OF

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(7)

EX. CALLING

EX. CALLING-

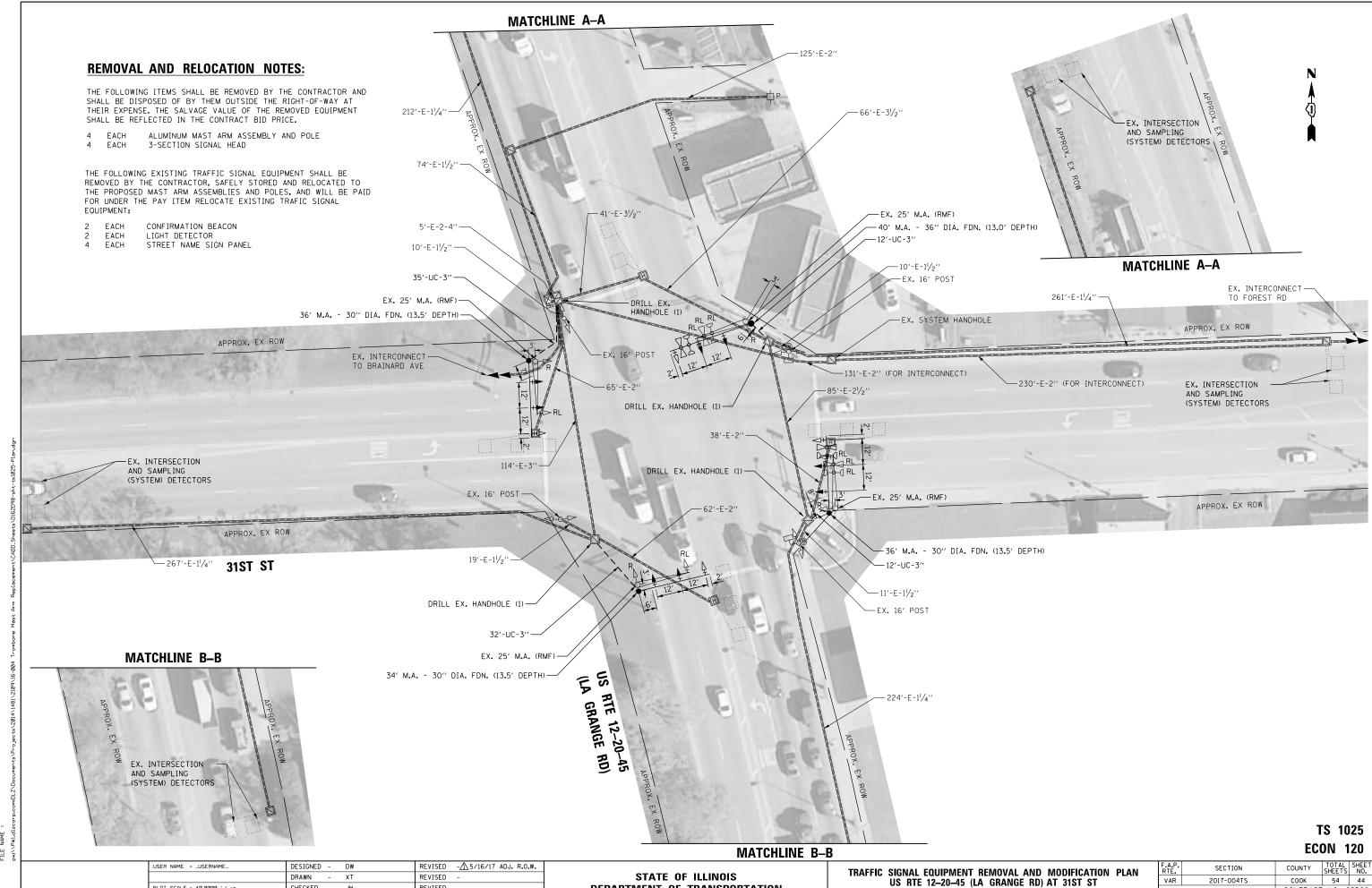
LOOPS

CABLE PLAN (NOT TO SCALE)

L00PS

R Y G

WOLF



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

US RTE 12-20-45 (LA GRANGE RD) AT 31ST ST

OF SHEETS STA.

SCALE: 1" = 20' SHEET

VAR

2017-004TS

CONTRACT NO. 62D98

DRAWN

DATE

PLOT DATE = 5/16/2017

CHECKED -

- XT

- 2/06/2017

REVISED

REVISED

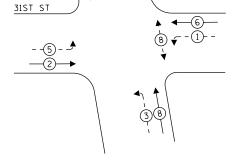
REVISED

EXISTING CONTROLLER SEQUENCE

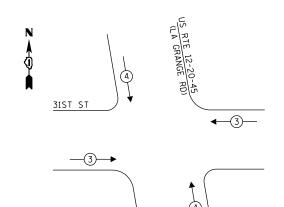
LEGEND: **★** PROTECTED PHASE ← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

♦ OL OVERLAP



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL							
ELECTRICAL SERVICE REQUIREMENTS							
	NO. OF	LED	7.	TOTAL			

TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	2	20	100	40.0
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 =	419.0

ENERGY COSTS TO:

VILLAGE OF LA GRANGE PARK

447 N CATHERINE AVE LA GRANGE PARK, IL 60526

ENERGY SUPPLY: CONTACT: JOE STACHO

PHONE: 630-424-5704 COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:

USER NAME = _USERNAME_ DESIGNED - DW REVISED DRAWN - XT REVISED PLOT SCALE = 40.0000 '/ in. CHECKED - JH REVISED PLOT DATE = 4/5/2017 DATE - 2/06/2017 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES US RTE 12-20-45 (LA GRANGE RD) AT 31ST ST SCALE: N.T.S. SHEET OF SHEETS STA.

COUNTY TOTAL SHEETS NO.

COOK 54 45 SECTION 2017-004TS VAR CONTRACT NO. 62D98

TS 1025

ECON 120

-TRACER CABLE

EX. INTERCONNECT TO FOREST RD

-EX. INTERSECTION

AND SAMPLING (SYSTEM) DETECTORS

TRACER-

31ST ST

CABLE

EX. INTERCONNECT TO BRAINARD AVE

EX. INTERSECTION AND SAMPLING

(SYSTEM) DETECTORS

		,
<u>SCHEDUI</u>	LE OF	US RTE 12-20-45 (LA GRANGE RD) QUANTITIES
QUANTITY	UNIT	<u>ITEM</u>
91	FOOT	UNDERGROUND CONDUIT. GALVANIZED STEEL. 3" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
519	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1590	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
867	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
142	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
40.5	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
13	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
4	EACH	DRILL EXISTING HANDHOLE
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
4	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
1837	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING CONCRETE FOUNDATION
4 519	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

CABLE PLAN

EX. INTERSECTION
AND SAMPLING
(SYSTEM) DETECTORS

(3) (5)

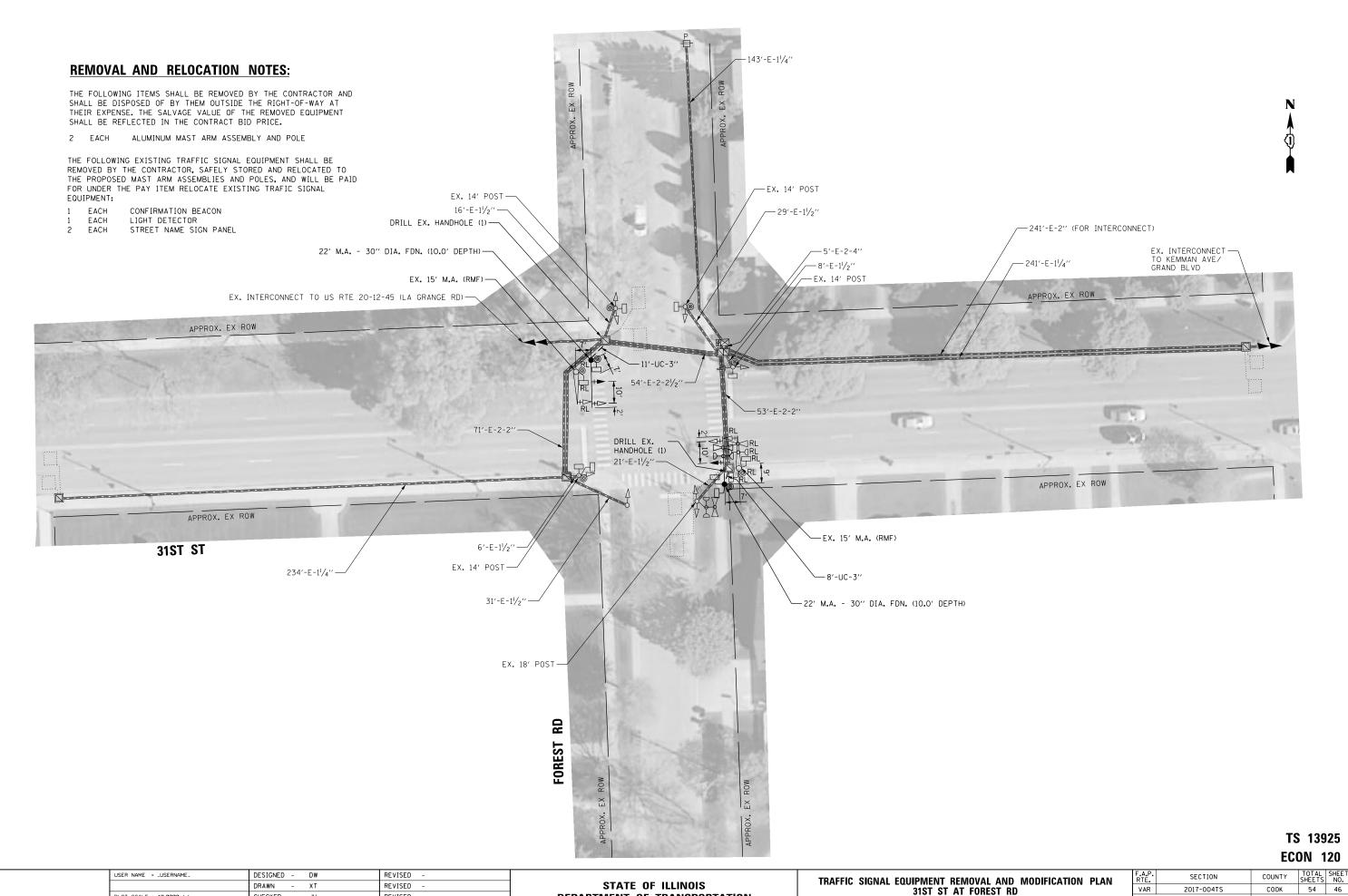
(NOT TO SCALE)

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EX. INTERSECTION AND SAMPLING

(SYSTEM) DETECTORS



PLOT DATE = 4/5/2017

DESIGNED - DW REVISED DRAWN - XT REVISED CHECKED -REVISED DATE REVISED - 2/06/2017

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION TRAFFIC SIGNAL EQUIPMENT REMOVAL AND MODIFICATION PLAN 31ST ST AT FOREST RD VAR 2017-004TS CONTRACT NO. 62D98 SCALE: 1" = 20' SHEET SHEETS STA. TO STA.

COUNTY

★PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

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*

PEDESTRIAN PHASE

Output

Description

PEDESTRIAN

AND

Description

PEDESTRIAN

PHASE

Output

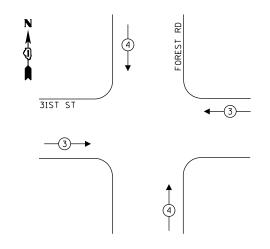
Description

PEDESTRIAN

PHASE

◆ OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL						
ELECTRICAL SERVICE REQUIREMENTS						
	NO. OF	LED	7	TOTAL		

TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	14	11	50	77.0
(Y	ELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE	ARROW	0	10	10	-
PED. SIGNAL		8	20	100	160.0
CONTROLLER		1	100	100	100.0
UPS		1	25	100	25.0
VIDEO SYSTE	М	-	150	100	-
BLANK-OUT S	SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET NAM	E SIGN	-	120	50	-
LUMINAIRE		-	-	-	-
				TOTAL =	451.6

ENERGY COSTS TO:

VILLAGE OF LA GRANGE PARK 447 N CATHERINE AVE

LA GRANGE PARK, IL 60526

ENERGY SUPPLY: CONTACT: JOE STACHO

PHONE: 630-424-5704 COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:

USER NAME = _USERNAME_ DESIGNED - DW REVISED DRAWN - XT REVISED CHECKED - JH REVISED PLOT DATE = 4/5/2017 DATE - 2/06/2017 REVISED

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

TRACER-CABLE

31ST ST

EX. INTERCONNECT — US RTE 12-20-45 (LA GRANGE RD)

SCHEDULE OF OUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
19	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
206	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
463	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
528	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
41	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 10
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.
20	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
2	EACH	DRILL EXISTING HANDHOLE
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
2	EACH	RELOCATE EXISTING SIGNAL HEAD
3	EACH	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
2	EACH	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
741	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE EXISTING CONCRETE FOUNDATION
135	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

CABLE PLAN

RD

FOREST

(NOT TO SCALE)

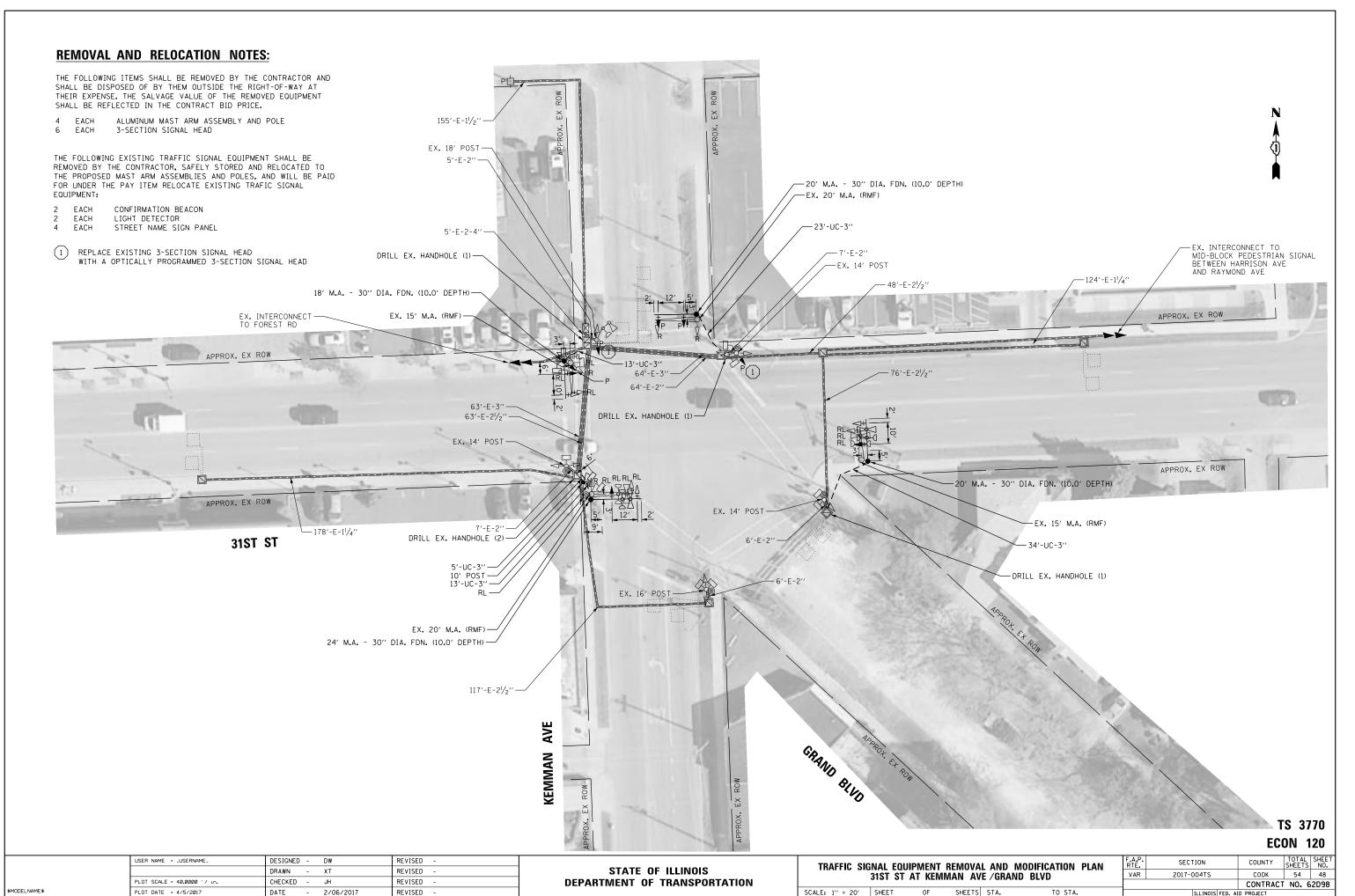
TS 13925 **ECON 120**

-TRACER CABLE

-EX. INTERCONNECT KEMMAN AVE/ GRAND BLVD

COUNTY TOTAL SHEETS NO.

COOK 54 47 CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES SECTION 2017-004TS VAR 31ST ST AT FOREST RD CONTRACT NO. 62D98 OF SHEETS STA.



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FILE NAME =

◆ PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

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PEDESTRIAN PHASE

Output

Description

PEDESTRIAN

AND

Description

AND

Description

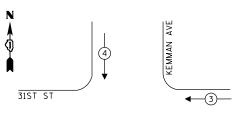
AND

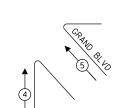
Description

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♦ OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





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	C PAND
	5 4
	4

TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	7.	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	19	11	50	104.5
(YELLOW)	19	20	5	19.0
(GREEN)	19	12	45	102.6
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	10	20	100	200.0
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	-	-	-	-
			ΤΟΤΔΙ =	555.1

ENERGY COSTS TO:

VILLAGE OF LA GRANGE PARK 447 N CATHERINE AVE

LA GRANGE PARK, IL 60526

ENERGY SUPPLY: CONTACT: JOE STACHO

PHONE: 630-424-5704 COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:

USER NAME = _USERNAME_ DESIGNED - DW REVISED DRAWN - XT REVISED CHECKED -REVISED PLOT DATE = 4/5/2017 DATE - 2/06/2017 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES VAR 31ST ST AT KEMMAN AVE / GRAND BLVD SHEET

-FOR FUTURE USE

RL D-O-()

COUNTY TOTAL SHEETS NO.

COOK 54 49 SECTION 2017-004TS CONTRACT NO. 62D98 SHEETS STA.

SCHEDULE OF QUANTITIES

FOOT

FOOT

EACH

EACH EACH

EACH

FACH FACH

EACH

FOOT

FACH EACH

FOOT

1541

458

OLIANITITY	LINITT	1750		
<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>	l a la la	•
88	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.		
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	2	NOTES:
155	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	 	PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
681	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	⋝	PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 3 AND 6
1088	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	5	PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 3
311	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	<u> </u>	
150	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	¥	
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	CADIT DIAN	
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.	<u>CABLE PLAN</u>	
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	(NOT TO SCALE)	
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.		

(E/S)(\$)(\$)

DRILL EXISTING HANDHOLE SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED

OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED

TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC

EX. INTERCONNECT

FOREST RD

TRACER:

CABLE

31ST ST

RELOCATE EXISTING SIGNAL HEAD
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
REMOVE ELECTRIC CABLE FROM CONDUIT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
REMOVE EXISTING CONCRETE FOUNDATION

CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER

EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

CONCRETE FOUNDATION, TYPE A

TS 3770 **ECON 120**

-TRACER

-EX. INTERCONNECT MID-BLOCK PEDESTRIAN

SIGNAL BETWEEN HARRISON AVE AND RAYMOND AVE

CABLE

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.

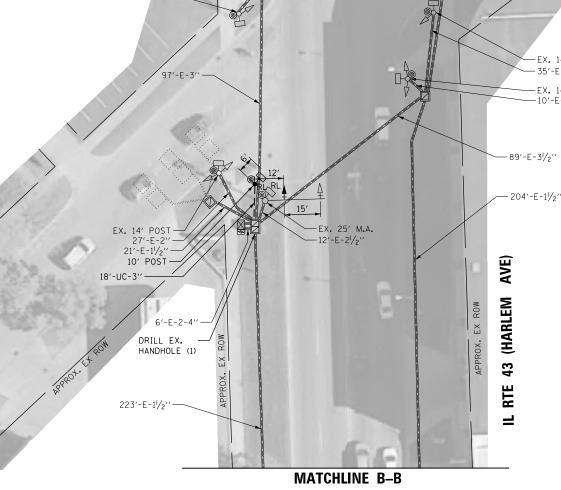
ALUMINUM MAST ARM ASSEMBLY AND POLE

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 FOR UNDER THE PAY ITEM RELOCATE EXISTING TRAFIC SIGNAL EQUIPMENT:

2 EACH STREET NAME SIGN PANEL



MATCHLINE A-A



250'-E-1¹/₂''-

EX. 14' POST-12'-E-2''-13'-E-2" EX. 14' POST- MATCHLINE A-A

-EX. INTERCONNECT TO 26TH ST

—EX. 25' M.A. (RMF) -26'-UC-3''

-24'-UC-3''

-DRILL EX.

HANDHOLE (2)

-EX. 14' POST - 35′-E-2′′

-EX. 14' POST -10'-E-2''

-24' M.A. - 30" DIA. FDN. (10.0' DEPTH)

MATCHLINE B-B

TS 2395 ECON 30

USER NAME = _USERNAME_ DESIGNED - DW REVISED -15/16/17 ADJ. R.O.W. REVISED DRAWN - XT CHECKED - JH REVISED REVISED PLOT DATE = 5/16/2017 DATE - 2/06/2017

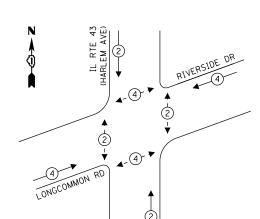
LONG COMMON RD

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL EQUIPMENT REMOVAL AND MODIFICATION PLAN IL RTE 43 (HARLEM AVE) AT RIVERSIDE DR /LONGCOMMON RD SCALE: 1" = 20' SHEET OF SHEETS STA.

COUNTY TOTAL SHEET NO.

COOK 54 50 SECTION COUNTY 2017-004TS VAR CONTRACT NO. 62D98



◆ PROTECTED PHASE

← - (*)- - PROTECTED/PERMITTED PHASE

√
→
PEDESTRIAN PHASE

Output

Description

PEDESTRIAN

PHASE

Output

Description

PHASE

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ELECTRICA	ıc	EDI	/ICE	DE	CHIDENIER	UTC
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				_		

	NO. OF	l LED	7.	IOTAL
TYPE	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	-	10	10	0.0
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 =	451.6

ENERGY COSTS TO:

VILLAGE OF RIVERSIDE 27 RIVERSIDE ROAD RIVERSIDE, IL 60546

ENERGY SUPPLY: CONTACT: JOE STACHO

PHONE: 630-424-5704

1 11011La_	030 121 3101
COMPANY:	COMMONWEALTH EDISON
ACCOUNT NUMBER:_	
	USER NAME = _USERNAME_

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
68	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
330	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
338	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
670	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
102	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR,
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
8	FOOT	CONCRETE FOUNDATION, TYPE A
10	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
3	EACH	DRILL EXISTING HANDHOLE
2 2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
1	EACH	RELOCATE EXISTING SIGNAL HEAD
2	EACH	
2	EACH	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON
1	EACH	
728	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	
1	EACH	REMOVE EXISTING CONCRETE FOUNDATION

TS 2395 ECON 30

DESIGNED - DW REVISED STATE OF ILLINOIS DRAWN - XT REVISED PLOT SCALE = 40.0000 '/ in. CHECKED - JH REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 4/5/2017 DATE - 2/06/2017 REVISED

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES IL RTE 43 (HARLEM AVE) AT RIVERSIDE DR /LONGCOMMON RD SCALE: N.T.S. SHEET OF SHEETS STA.

CABLE PLAN (NOT TO SCALE)

RTE.				SHEETS	NO.
VAR	2017-004TS		COOK	54	51
			CONTRACT	NO. 6	2D98
	ILLINOIS	FED. A	D PROJECT		

-EXISTING INTERCONNECT TO 26TH ST

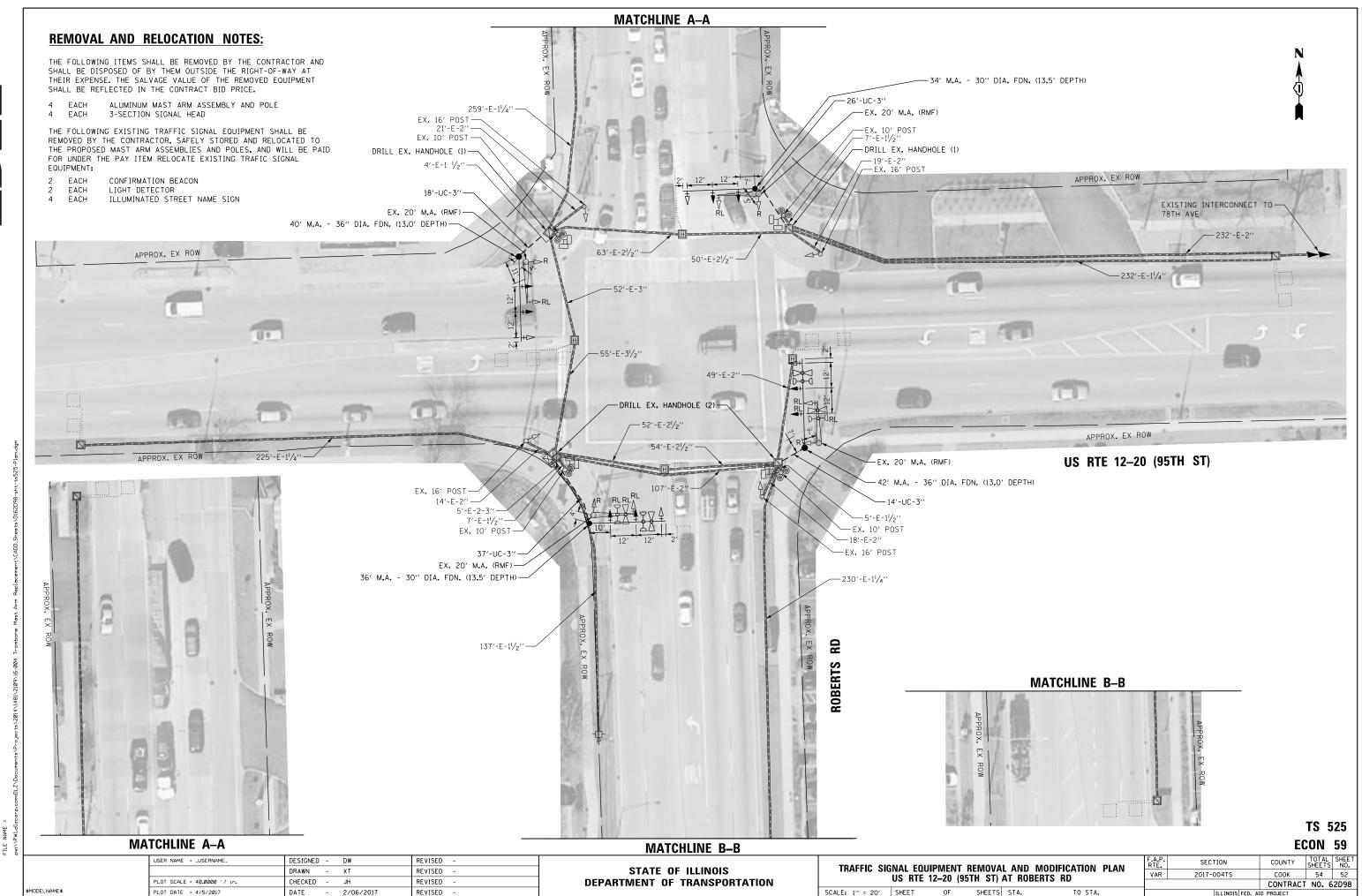
RIVERSIDE DR

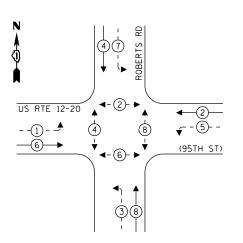
-TRACER CABLE

(5) (5)

LONGCOMMON RD

NO. 6 1C





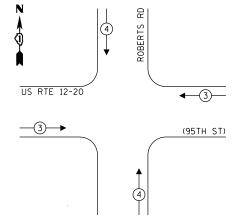
←(*)— PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

♦ OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



	ROBE
US RTE 12-20	← 3
<u>3</u> →	(95TH ST)

TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS** NO. OF LED

	110. 01	LLD	/•	IOIAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
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	4	120	50	240
LUMINAIRE	-	-	-	-
			ΤΟΤΔΙ =	731.4

ENERGY COSTS TO:

CITY OF HICKORY HILLS 8652 W 95TH STREET

HICKORY HILLS, ILLINOIS 60457-1700 ENERGY SUPPLY: CONTACT: MIKE LENOX

PHONE: 815-490-2869 COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:

USER NAME = _USERNAME_ DESIGNED - DW REVISED DRAWN - XT REVISED PLOT SCALE = 40.0000 '/ in. CHECKED - JH REVISED PLOT DATE = 4/24/2017 DATE - 2/06/2017 REVISED

* 100% COST TO THE CITY OF HICKORY HILLS

SCHEDULE OF QUANTITIES

	:	
		-
<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
95	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
* 2	EACH	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT
* 2	EACH	PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER
1129	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1697	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
914	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
146	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.
27	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
26	FOOT	
4	EACH	
8	EACH	
8	EACH	
4	EACH	
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
1478	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	
339	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

US RTE 12–20

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

TS 525 ECON 59

-TRACER CABLE

EX. INTERCONNECT

TO 78TH AVE

COUNTY TOTAL SHEETS NO.

COOK 54 53 CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES US RTE 12–20 (95TH ST) AT ROBERTS RD SECTION 2017-004TS VAR CONTRACT NO. 62D98

(5) (5)

> (*)

(95TH ST)

R R R Y G G G 95TH Street

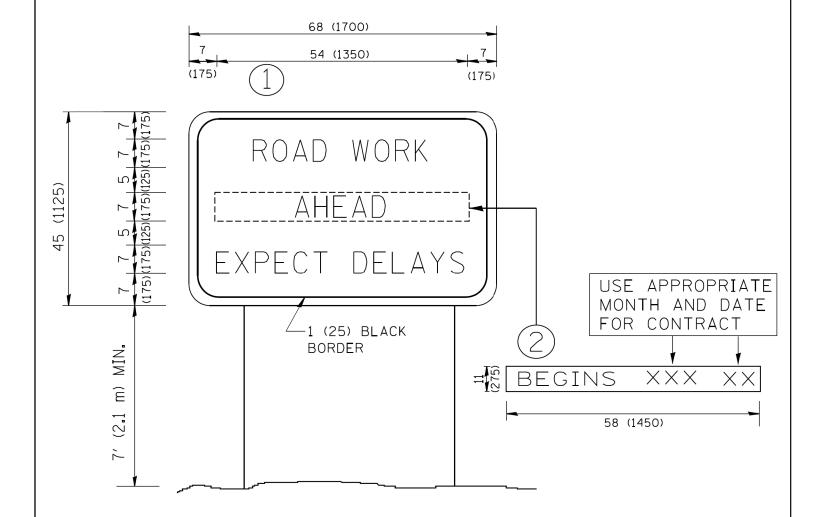
ROBERTS

1997t2 HT20

CABLE PLAN (NOT TO SCALE)

SCALE: N.T.S. SHEET

OF SHEETS STA.



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 = _USERNAME_	DESIGNED -	DW	REVISED -									F.A.P. RTE.	SECTION	COUN	TY SH	OTAL SHEE	ET).
	DRAWN -	XT	REVISED -	STATE OF ILLINOIS	INFORMATION CICAL					VAR	2017-004T	S VAF	₹	54 54	4		
PLOT SCALE = 2.0000 '/ in.	CHECKED -	JH	REVISED -	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN							TC-22	CONT	RACT N	NO. 62D98	18	
PLOT DATE = 4/5/2017	DATE -	2/06/2017	REVISED -		SCALE: NONE	SHEET	1	OF 1	SHEETS	S STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLIN	IOIS FED. AID PROJECT			