04-25-14 LETTING ITEM 010

INDEX OF SHEETS

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN NORTH COOK COUNTY #6 LIGHT EMITTING DIODE (LED) INSTALLATION **SECTION 2013-053TS COOK COUNTY**

C-91-051-14

LOCATION MAP

SEE SHEET NO. 3

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE 701101-04 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE

701701-09 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701901-03 TRAFFIC CONTROL DEVICES

IDOT STANDARDS

720001-01 SIGN PANEL MOUNTING DETAILS

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

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

PROJECT ENGINEER: SHAR-DAY SMITH PROJECT MANAGER: SUDUD MAHMOUD

CONTRACT NO. 60X28

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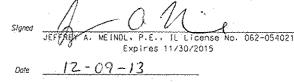


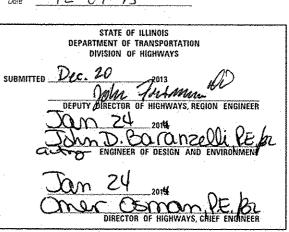
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GENERAL NOTES

- 1. CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM PAINTED POSTS
 THAT ARE INDICATED FOR REPLACEMENT TO NEW POSTS AS SHOWN ON THE
 PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL,
 RELOCATION, AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE
 THIS WORK SHALL BE INCLUDED IN THE TRAFFIC SIGNAL POST, GALVANIZED
 STEEL PAY ITEM OF THE LENGTH AS SPECIFIED IN THE PLANS.
- 2. IT SHALL BE THE CONTRACTOR'S RESPONSBLITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE VERIFYING THE EXISTING BOLT PATTERN ON EXISTING FOUNDATIONS SPECIFIED TO BE RE-USED.
- 3. THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES, THE CONTRACTOR SHALL CALL JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- 4. ANY ADDITIONAL CABLE LENGTHS NECESSARY FOR THE PROPER INSTALLATION OF AN UNINTERUPTIBLE POWER SUPPLY, GROUND MOUNTED DUE TO THE LARGER DISTANCE AWAY FROM THE CONTROLLER CABINET SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNINTERUPTIBLE POWER SUPPLY, GROUND MOUNTED PAY ITEM.
- 5, THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- 6. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND, ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
- 7. CONTRACTOR SHALL REPLACE ALL TRAFFIC SIGNAL HEAD METAL BRACKETS TO NEW POLYCARBONATE BRACKETS AT.ALL RETROFIT SIGNAL HEAD INTERSECTIONS OR AS DIRECTED BY THE ENGINEER, THE COST OF THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING SIGNAL HEAD. LED, RETROFIT PAY ITEM OF THE TYPE AND NUMBER OF SIGNAL HEADS, FACES, AND SECTIONS AS SPECIFIED IN THE PLANS.
- B. THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT FROM AN EXISTING TRAFFIC SIGNAL CONTROLLER CABINET TO A NEW TRAFFIC SIGNAL CONTROLLER CABINET. AS INDICATED IN THE PLANS. THE WORK SHALL INCLUDE DISCONNECTING THE EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT(S) AND RECONNECTING IT TO A NEW WIRING HARNESS WHICH IS TO BE FACTORY WIRED INTO THE NEW TRAFFIC SIGNAL CONTROLLER CABINET. THE EMERGENCY VEHICLE SYSTEM IS NOT TO BE INOPERATIVE FOR MORE THAN 8 HOURS AND THE CONTRACTOR MUST NOTIFY THE MUNICIPALITY OR FIRE PROTECTION DISTRICT 72 HOURS PRIOR TO THE DISCONNECTION OF THE EQUIPMENT. THE CONTRACTOR MUST DEMONSTRATE TO THE SATISFACTION OF THE ENGINEER THAT THE EMERGENCY VEHICLE SYSTEM OPERATES PROPERLY.
- AT LOCATIONS ON THE PLANS WHERE TRAFFIC SIGNAL POST REMOVAL AND NEW TRAFFIC SIGNAL POST INSTALLATIONS ARE SPECIFIED, THE CONTRACTOR SHALL INSPECT THE EXISTING POST FOUNDATIONS. PRIOR TO REMOVING THE EXISTING TRAFFIC SIGNAL POST TO BE REPLACED, THE CONTRACTOR SHALL VERIFY THAT THE EXISTING CONDITION OF THE ANCHOR BOLTS IS ACCEPTABLE. IF THE EXISTING ANCHOR BOLT CONDITION IS NOT ACCEPTABLE, THE CONTRACTOR SHALL USE THE APPROVED METHOD TO REPLACE ANCHOR BOLTS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE PAID FOR THE NUMBER OF TRAFFIC SIGNAL POSTS. INSTALLED AND NO OTHER COMPENSATION WILL BE PROVIDED.
- 10. THE CONTRACTOR SHALL RELOCATE ANY EXISTING TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, AND PEDESTRIAN PUSH BUTTONS FROM THE PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO NEW POSTS AS SHOWN ON THE PLANS, EXCEPT AS SHOWN TO BE REPLACED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION, AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE TRAFFIC SIGNAL POST PAY ITEM.

SCALE:

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

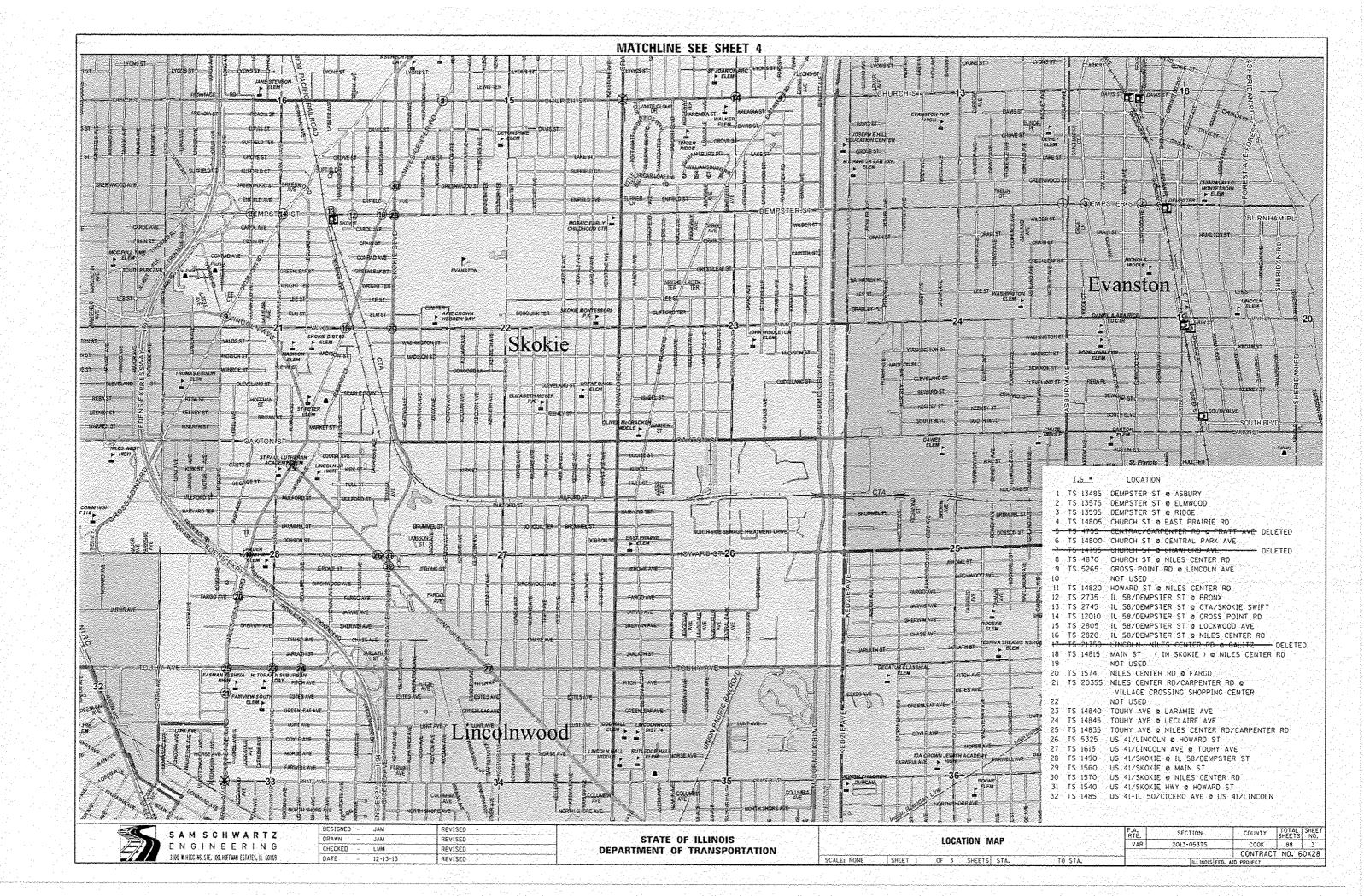
RLR CAMERA LOCATION: TS *1615 - US 41/LINCOLN AVENUE AT TOUHY AVENUE

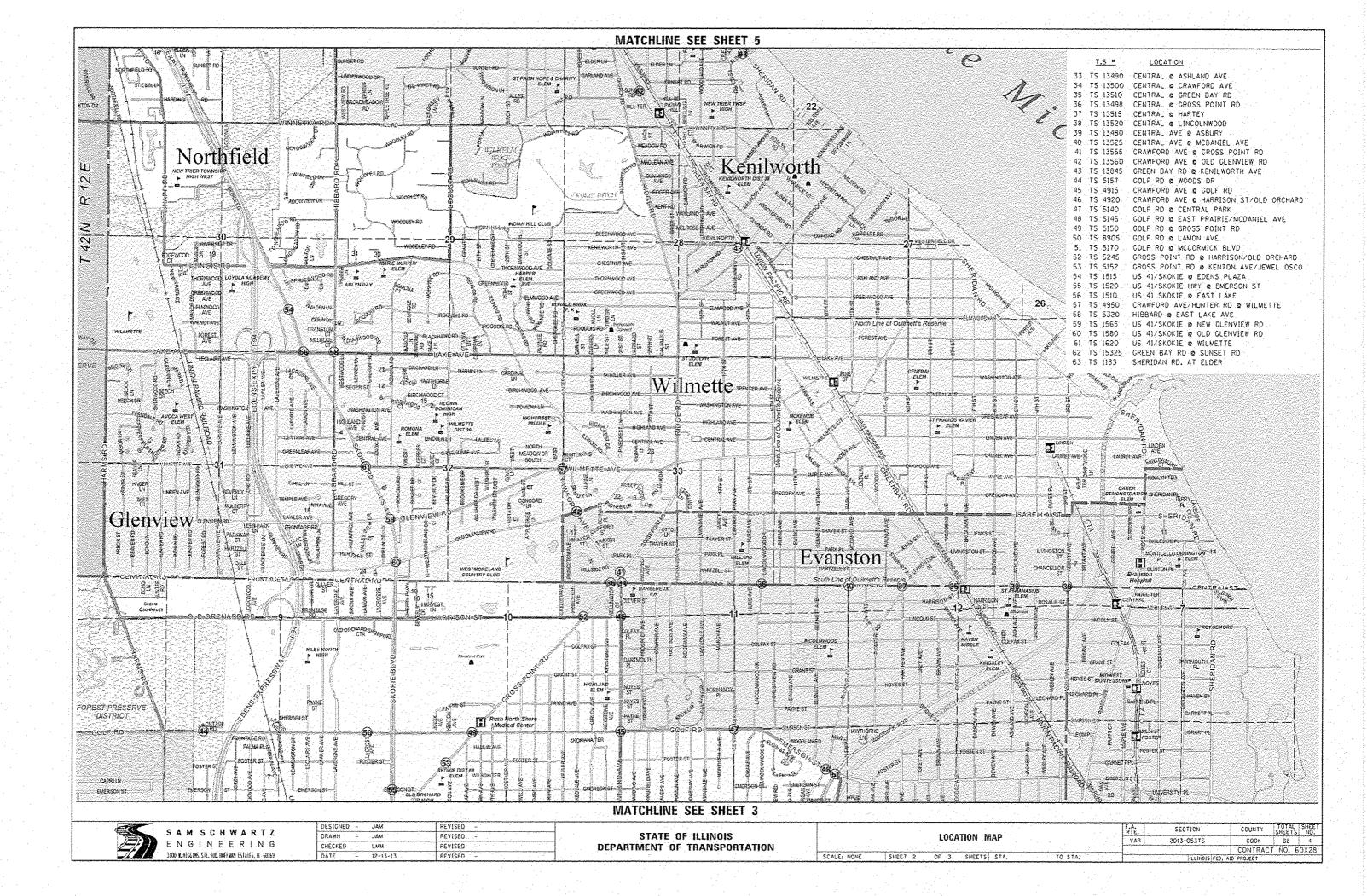
VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE, IL 60077 1847) 673-0500 ATS (AMERICAN TRAFFIC SOLUTIONS) 1300 WEST SOUTHERN AVENUE TEMPE, ARIZONA 85282 847-912-1193 ATTN: PETER SOPKOVICH

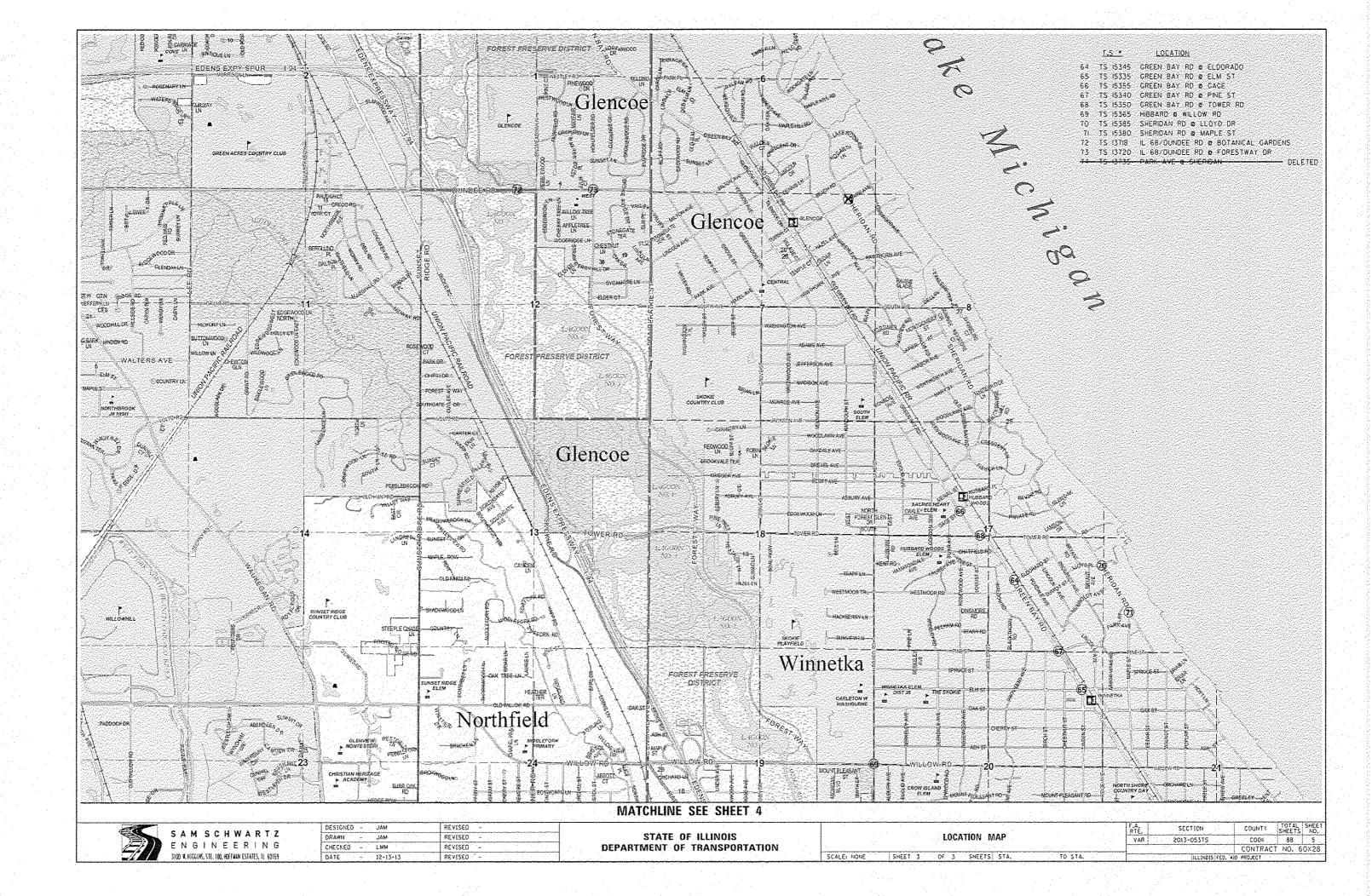
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	BUDEY OF OUTEYO	AND OFFICER			F.A. RTÉ.	SECTION	COUNTY	TOTAL	SHEE NO.
	INDEX OF SHEETS	AND GENERAL	NOTES		VAR.	2013-05315	COOK	58	2
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OLUMN	TS NO.	INTERSECTION	STATE	EVANSTON	GLENCOE	KENILWORTH	SKOKIE	WILMETTE	WINNETKA	DEVELOPER DIVERSIFIED REALTY CORP	CENTER	WESTFIEL OLD ORCHARD
2	TS 13490	CENTRAL & ASHLAND AVE	95%	5%	*************							
2	TS 13500	CENTRAL @ CRAWFORD AVE	95%	5%	-						annine a ghannan chaoitean irrestratha christian irrestration i	
2	TS 13510	CENTRAL & GREEN BAY RD	95%	5%	-			1	70 304 0			
2	TS 13498	CENTRAL & CROSS POINT RD	95%	5%	A STATE OF THE PARTY OF THE PAR			1				
3	TS 13515	CENTRAL & HARTREY	96.7%	3.3%			olimatica contraction and agricultural contraction of the section				-	
2	TS 13520	CENTRAL @ LINCOLNWOOD	95%	5%								
2	TS 13480	CENTRAL AVE & ASBURY	95%	5%			***************************************					
2	TS 13525	CENTRAL AVE & MCDANIEL AVE	95%	5%				<u> </u>			** •	
2	TS 13555	CRAWFORD AVE & GROSS POINT RD	95%	5%		İ		1				
SI	TS 13560	CRAWFORD AVE & OLD GLENVIEW RD	92.5%	7.5%				 				
2	TS 13485		95%	5%				<u> </u>				
2	TS 13575		95%	5%			· · · · · · · · · · · · · · · · · · ·	1			in spin minn juli shamin belancires sensitati	-
2		DEMPSTER ST & RIDGE	95%	5%	 	 						
5	TS 13718		96.7%	 	3.3%	-						
6		IL 68/DUNDEE RD & FORESTWAY DR	95%	,,	5%			<u> </u>				
7	TS 13845				5/4	E **	· · · · · · · · · · · · · · · · · · ·	 				
		GREEN BAY RD & KENILWORTH AVE	95%	ļ		5%	· 2 21,	ļ				· · · · · · · · · · · · · · · · · · ·
8	TS 5157	GOLF RD @ WOODS DR	96.7%			ļ	3,3%	ļ				
9		CHURCH ST @ EAST PRAIRIE RD	95%			ļl	5%				··	
9		CHURCH ST & CENTRAL PARK AVE	95%				5½					-
10	TS 4870	CHURCH ST & NILES CENTER RD	97.5%		·		2.5%	<u> </u>				
1	TS 4915	CRAWFORD AVE & GOLF RD	100%									
2	TS 4920	CRAWFORD AVE & HARRISON ST/OLD ORCHARD	95%	5%	energy had english may night in 1990, mgs							
12	T.S 5140	GOLF RD & CENTRAL PARK	95%	2.5%			2.5%					
12	TS 5145	GOLF RD D EAST PRAIRIE/MCDANIEL AVE	95%	2.5%			2.5%					
1	TS 5150	GOLF RD & GROSS POINT RD	100%			· · · · · · · · · · · · · · · · · · ·						
20	TS 8905	GOLF RD O LAMON AVE	95%			and a second						5%
4	TS 5170	GOLF RD & MCCORMICK BLVD	97,5%	2.5%								
4	TS 5245	GROSS POINT RD @ HARRISON/OLD ORCHARD	97.5%	2.5%								
9	TS 5152	GROSS POINT RD & KENTON AVE/JEWEL OSCO	95%				57					
9	TS 5265	GROSS POINT RD & LINCOLN AVE	95%		· .		5%					
9	TS 14820.	HOWARD ST & NILES CENTER RD	95%				5%	***************************************				***************************************
9	TS 2735	IL 58/DEMPSTER ST & BRONX AVE	95%	<u> </u>			5%					
9	TS 2745	IL 58/DEMPSTER ST @ CTA/SKOKIE SWIFT	95%				5%		Name of Street, Street			
		IL 58/DEMPSTER ST & GROSS POINT RD	95%				5%					
9		IL 58/DEMPSTER ST 0 LOCKWOOD AVE	95%	<u> </u>			5%					-
10		IL 58/DEMPSTER ST & NILES CENTER RD	97.5%	 		 	2.5%			· · · · · · · · · · · · · · · · · · ·		
11		MAIN ST (IN SKOKIE) @ NILES CENTER RD			······	 	·			·		
9			92.5%	 	**************************************		7.5%					
		NILES CENTER RD & FARGO	95%				5%					 .
		NILES CENTER RD/CARPENTER RD & VILLAGE CROSSING SHOPPING CENTER	95%				~			5%		***************************************
		TOUHY AVE & LARAMIE AVE	95%		· · · · · · · · · · · · · · · · · · ·		5%			**************************************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		TOUHY AVE & LECLAIRE AVE	95%	 		 	5%					
		TOUHY AVE & NILES CENTER RD/CARPENTER RD	100% :			<u> </u>						
9	~~~~	US 41/LINCOLN & HOWARD ST	95%		·		5%					···
1 .	TS 1615	US 41/LINCOLN AVE & TOUHY AVE	100%				·					·
19	TS 1515	US 41/SKOKIE @ EDENS PLAZA	96.7%								3.3%	
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F.A. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
VAR	2013-05315	CODK	88	6
		CONTRACT	NO. 6	0X28
	ILLINOIS FED. A	D PROJECT		
	f.A. RIE. VAR	VAR 2013-0531\$	VAR 2013-05315 COOK	VAR 2013-053TS CODK 88 CONTRACT NO. 6

							FUNDING PA	ARTICIPATION				
OLUMN IUMBER	TS NO.	INTERSECTION	STATE	EVANSTON	GLENCOE	KENILWORTH	SKOKJE	WILMETTE	WINNETKA	DIVERSIFIED	EDENS CENTER ASSOCIATES	OLD.
1	TS 1490	US 41/SKOKIE & IL 58/DEMPSTER ST	100%									
9	TS 1560	US 41/SKOKIE @ MAIN ST	95%				5%					
10	TS 1570	US 41/SKOKIE @ NILES CENTER RD	97.5%		1 11		2.5%					
9	TS 1520	US 41/SKOKIE HWY & EMERSON ST	95%				5%					
9	TS 1540	US 41/SKOKIE HWY & HOWARD ST	95%		·		5%					-
1	TS 1485	US 41-IL 50/CICERO AVE @ US 41/LINCOLN	100%								******	
1	TS 1510	US 41 SKOKIE @ EAST LAKE	100%				***************************************					,
13	TS 4950	CRAWFORD AVE/HUNTER RD & WILMETTE	97,5%					2.5%			***************************************	
1	TS 5320	HIBBARD & EAST LAKE AVE	100%									-
13	TS 1565	US 41/SKOKIE O NEW GLENVIEW RD	97.5%					2,5%	and the second second second second second			
14	TS 1580	US. 41/SKOKIE @ OLD GLENVIEW RD	95%				***************************************	5%				
14	TS 1620	US 41/SKOKIE & WILMETTE	95%					5%				
15	TS 15345	GREEN BAY RO & ELDORADO	96.7%						3.3%			
16	TS 15335	GREEN BAY RD @ ELM ST	95%	T .		<u> </u>		-	5%			
16	TS 15355	GREEN BAY RD & GAGE ST	95%					1	5%			
16		GREEN BAY RD & PINE ST	95%	 					5%			
16		GREEN BAY RD & SUNSET RD	95%						5%			
17		GREEN BAY RD & TOWER RD	95.7%						4.3%			**************************************
16	TS 15365		95%				***************************************	<u> </u>		-		
16	TS 15385	SHERIDAN RD & LLOYD DR	95%					<u> </u>	5%			
			<u></u>	 		<u> </u>		 	5%			
15	,:;->,,,,	SHERIDAN RD & MAPLE ST	96.7%				·····		3.3%			
16	TS 1183	SHERIDAN RD, AT ELDER LN.	95%						5%			
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-05315	COOK	88	7
		CONTRACT	NO. 6	0X28
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67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6			·			-											
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70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1																	
		100000000000000000000000000000000000000																			
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	67	8	12	1	2 1	1 1		1	15	4 1	.2	. 2	2	2	7	1	1 1	1	1
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87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	18								5	2 2	5					1	1 2		
		Contract of the state of the st															-				
87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	2:	2																	
		AAAA AAAA									-						-	de anticolocido de la constante de la constant			
8.7502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	41	14			4				4			4	8			-	3 2	2	
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88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	55	11	11						7	6	2	2	4	6		3 .	3		
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	71	7	15		4				14	4	2			11		6	1 2	1	4
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH.	28		3		4				6			4	8				2	1	
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88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	64	18	4		4			and the same	14	2 2		4	8			1	3, 2	2	
		and the same																			
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	34	3	8					- denotes	3	5 2	- 4			2			2	1	4
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88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6	2							2								1	1	
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	27	13	1						7	1 2						3			
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DATE	-	12-13-13	REVISED -

SUMMARY OF QUANTITIES

SHEET 3 OF 5

SCALE: NONE SHEET OF SHEETS STA.

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38030310	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	-					-	ļ									1			$\dashv$
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8030325	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 1-4 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	1				1										1				***	 [ ·
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3030330	SIGNAL HEAD, LED. 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2				1													2	- Inches	,
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8055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	1								2	-						1			
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3055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6									5										
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8055190	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		To the second se		-				1											
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055200	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1		and the same of th		· veneral research	-				1										
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8060110	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	5	1			***************************************					4										
y en gan dan ar er gegenden e		-	***************************************	ļ.				***************************************								-					-	
8060130	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED	EACH	2	1								1	-									
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8060180	COMBINATION SIGNAL HEAD, LED. 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1					-				1								Deliaskelija andrijakalena	·-	
01/07/17	DESCRIPTION CLOSE HEAD LED A FACE PRACTED WOUNTED WITH COUNTROWS THESE	E . CU	070	24	20			-			<i>C.C.</i>	16	-	10					_		+-	
08102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	232	24	36.	b	8 2	2			66	16		12	10	4	4	20	6	4	2	_
8102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	101	12	26		4	3		2	28				3	6		12	-	1	+	
0102141	TEDESTITIAN STONAL HEAD, EED, 2 FACE, BRACKET MOUNTED WITH COUNTDOWN TIMEN	LACIT	101	1.14	20		7				- 20					0		14	1	1	+-	
8200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	125	30	15		4				21	14	2	3	6	12	6	-	4	6	2)
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3800100	PEDESTRIAN PUSH-BUTTON	EACH	116	16	8		8 2				40	10	anapolitica de pagas	12	8		2	10			+	
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	F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
. :	VAR	2013-05315	. COOK	88	9
			CONTRACT	NO. 6	0X28
		ILLINOIS FED. A	O PROJECT		

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89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	61	8	12	1	-	1	1		16	3	1	1	2	2 3	2 5			1	1 1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH		-	10	4	0				1.0	-	The state of the s					7			
03302373	NEMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6.6	8	12	-	2	1			16	3	There will be a sound of the so	2,	2	2 2	2 7	1			
X8620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	7 -		3	1	1										1				
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X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	54	8	9			1	1	1	15	3	1	1	2	2	1 5	-	1	1 !	1 1
X8803040	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	7	1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7						6				***************************************	VA managa				-	-
X8803082	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	10									Treasure of the same of the sa				And the second s					
.40003002	STOWAL BEAD, LED, I"FACE, S"SECTION, BRACKET MUDINTED, RETRUFT	EACH	12	and and		-	Artendom Arten	-			9				2		-			Art reason of the second of th	
X8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	38	5							31				2						
X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	25	3	THE PARTY AND A PA					-	22				·						
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X8803090	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	5								***************************************				4					,	
X8803210	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	18	2		Acceptance of the Control of the Con		***	-	ofteniore remains and remains and	16				Anna Piter Anna Para Para Para Para Para Para Para P	And the second s				-	

X8880015	PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	184	29	32		4	5		4	54	. 7			5	11 3	3 15	5 7	5		3
7007/0/00/	TRAINEES- TRAINING PROGRAM GRADUATE	1/4/16	(s a	<i>C</i> 40	A CONTRACTOR OF THE CONTRACTOR		***************************************													-	
20070004	INMINEED TRAINING FROGRAM GRADUATE	HOUR	5:00.	500					and the state of t												
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	ි වි				The state of the s										ව				
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 12-13-13
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 5 OF 5

SCALE: NOME SHEET OF SHEETS STA.

RTE. SECTION COUNTY TOTAL SHEET NO.

VAR 2013-0531S COOK 88 10

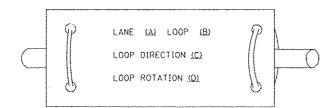
CONTRACT NO. 60X28

| ILLINOIS|FED. AID PROJECT

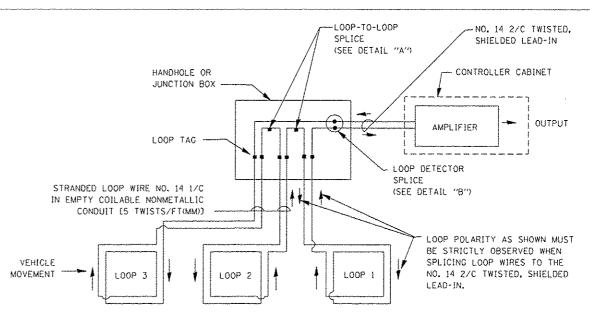
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE, SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT I 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

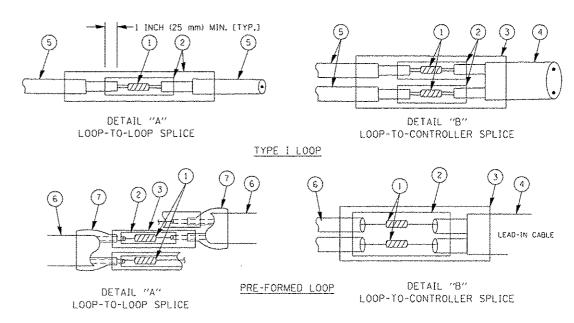


- A. LANE I IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP "I IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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

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

ST

SCALE:

- XL POLYOLEFIN 2 CONDUCTOR
- BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME 4	USER NAME = kenthaphixaybo	DESIGNED - DAD	REVISED -	
GS118b/JSYAXIHONTAANTHAPHXAYSC\d81126	4\traffic_lagand_v7.dgn	DRAWN - BCK	REVISED -	
	PLOT SCALE = 20.0000 '/ IN.	CHECKEO - DAD	REVISED -	
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -	

STATI	E OF	: ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

DISTRICT ONE	F.A. RTE.	SECTION
TANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR	2013-053TS
SHEET NO. 1 OF 6 SHEETS STA. TO STA.	FED. RO.	AD DIST. NO. HULINOIS

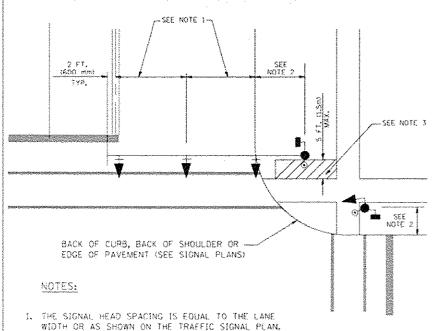
TOTAL SHEE SHEETS NO.

COUNTY COOK

CONTRACT NO. 60X28

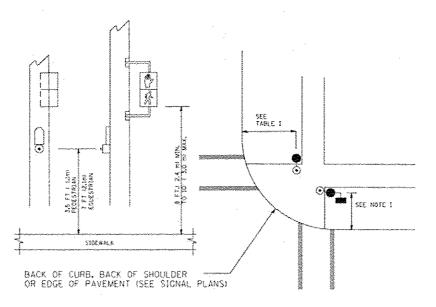
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



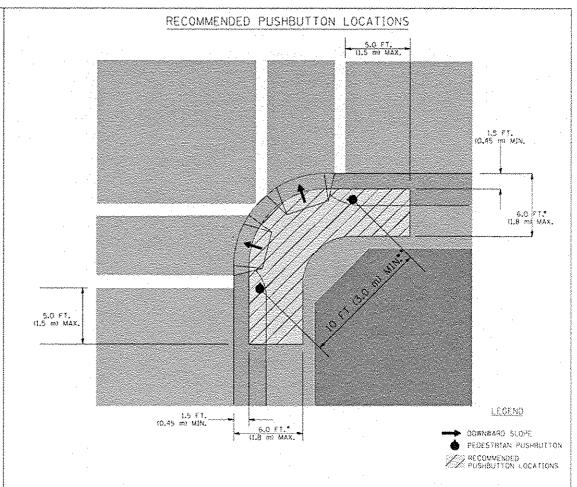
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK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

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- Z. PPOVIDE 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.
- 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 MUTCO AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY CUIDELINES 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 HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2,4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK. ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT, (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- I, 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.
- S. 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.

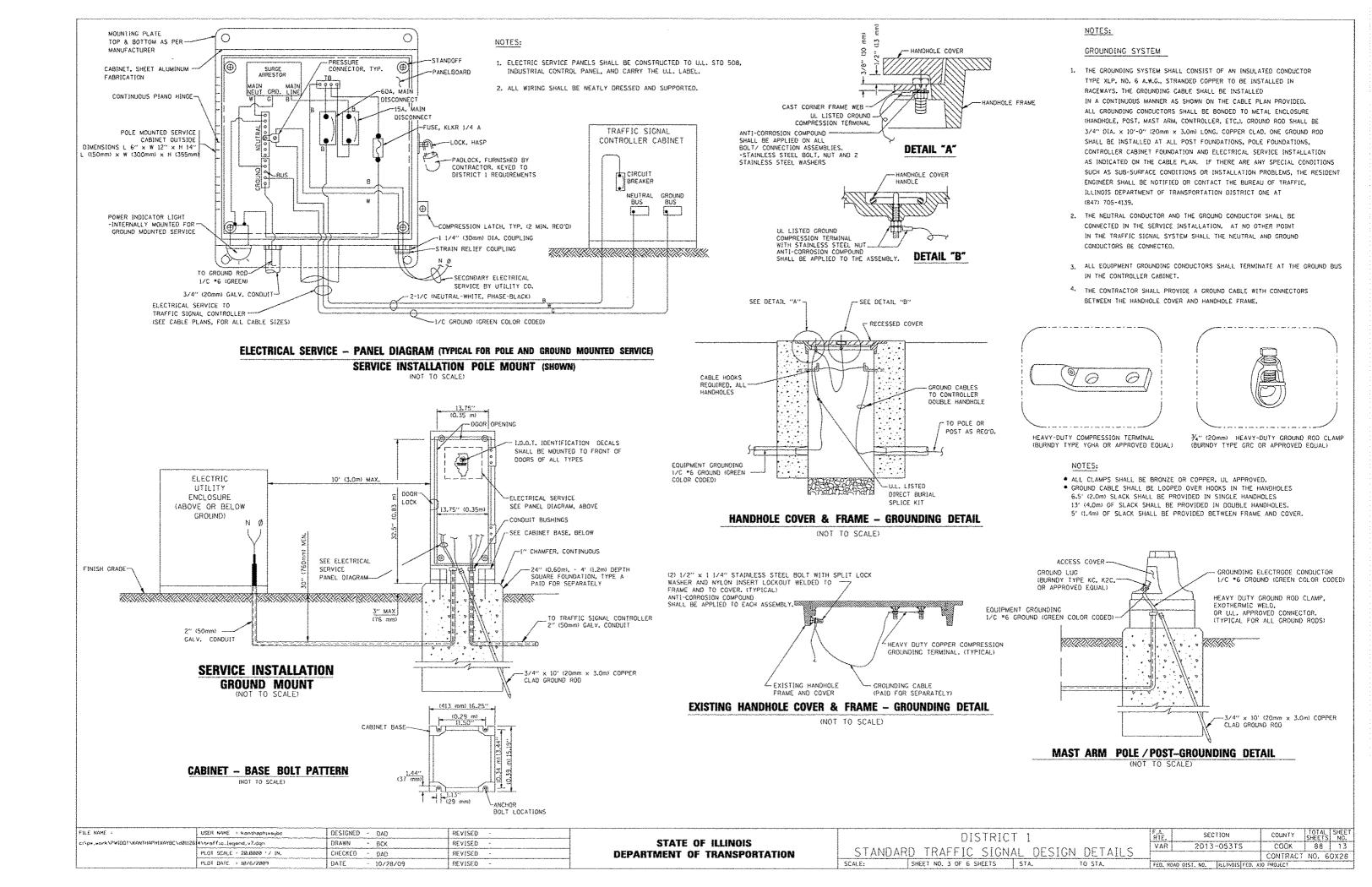
TRAFFIC SIGNAL EQUIPMENT OFFSET

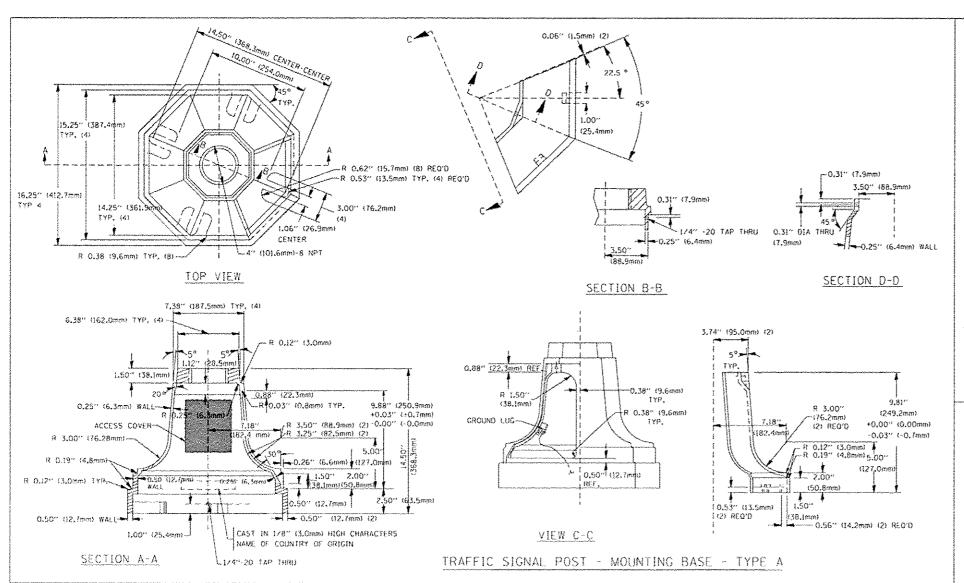
·	TOTAL TO STORME EXCENTINENT	<i>ur ∈ 3</i> 0 ×
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (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 (O.Gm), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (L.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (O.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) WINIWUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (L8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION. GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

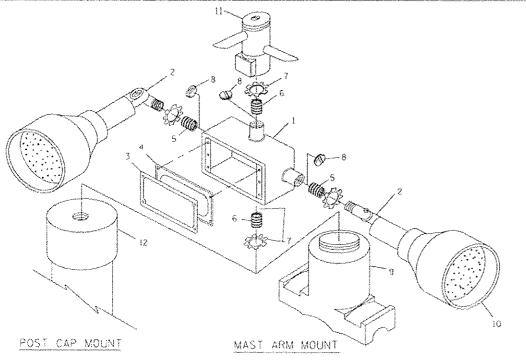
NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION,
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARM 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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cshe-sorth PWICCT NEW I HAPRIXATEC NOCHIZE	Ahtraffic, Jagend, villagn	DRAWN - BO	CK .	REVISED -	STATE OF ILLINOIS		Q10III			VAR	2013-05315	F 1753	50 12	2 4
	PLOT SCALE : 20.0000 1/ IN.	CHECKED . DA	AD GA	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDA	ARD TRAFFIC S	IGNAL DE	SIGN DETAILS	Yen	£0:3"033:3	CONTRACT	NO. 60X28	-4
	PLQ! CATE - 18/6/2009	DATE - 10	3/28/09	NCAIRED -		SCALE:	SHEET NO. 2 OF 6 SHE	ETS STA.	10 514.	FEO. 8040	BIST, SO. ILLINOISISEO.	\$10 890,00T	Standard Company of the Standard Standard Standard	







EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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Pt.OI CATE - 10/6/2004

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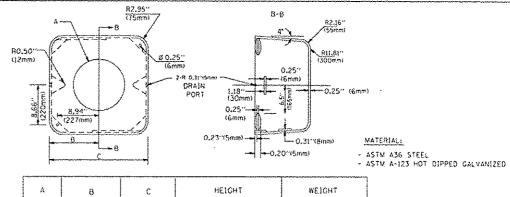
ITEM NO. IDENTIFICATION 1 OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER CASKET 5 REDUCING BUSHING 6 Ya''(19 mm) LOSE NIPPLE 7 Ya''(19 mm) LOCKNIT 8 Xa''(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST CAP (18 FT. (5.4 m) POST MIN.I

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS "2 AND "1) SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM *1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM *2- MULBERRY CON-O-SHADE LAMP SHIELD OR EDUIVALENT 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 X-019 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.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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	DISTRICT 1		F.A. RTE.	SECTION
STANDAR	D TRAFFIC SIGNAL DE		VAR	2013-053TS
SCALE:	SHEET NO. 4 OF 6 SHEETS STA.	ATZ OT	a market my market and option	AD BIST, NO. TELLINOISTED, A

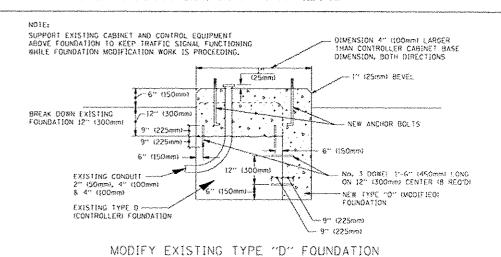


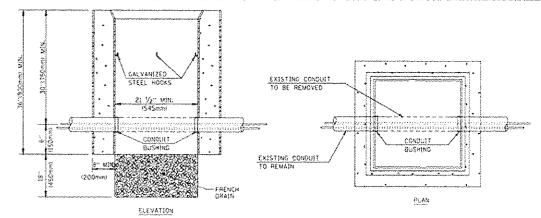
A	8	¢	HEIGHT	WEIGHT
VARIES	9.5"(24)mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10,75/1273mm)	21,5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (3) kg/
VARIES	13.0"(330mm)	26"(660mm)	?" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(47Qmm)	37'1940mm)	?" (178mm) - 12" (300mm)	126 (bs (57 kg)

SHROUD

NOTES:

- 1. DIMENSION "A" IS COURL 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.





HANDHOLE TO INTERCEPT EXISTING CONDUIT

COUNTY

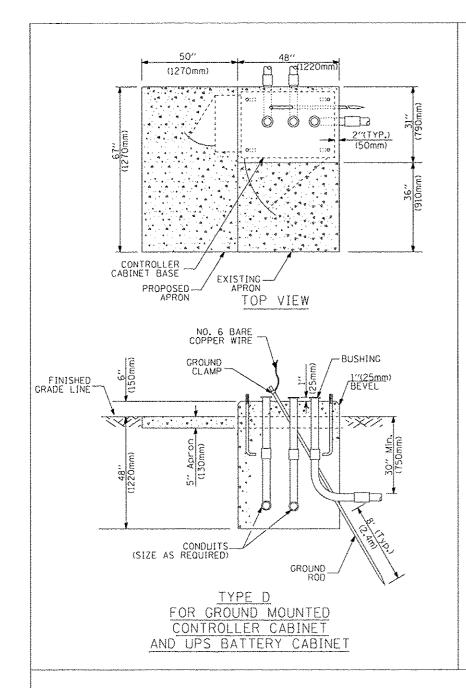
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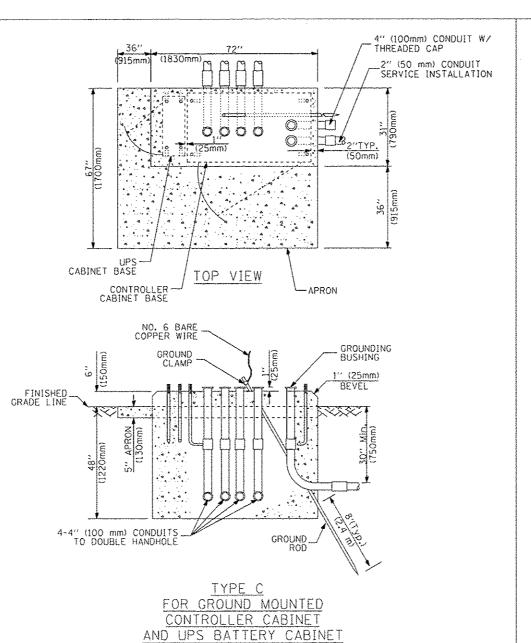
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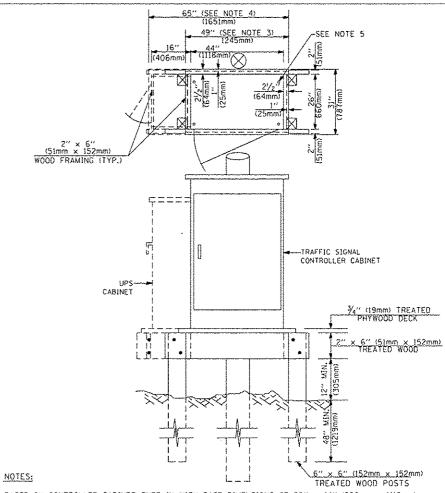
CONTRACT NO. 60X28

NOTES:

- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.







- 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" \times 25" (406mm \times 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. ORILLED 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

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4,]
SERVICE INSTALLATION CROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1,0

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

ST

SCALE:

Most Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Repors	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 55' (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)

NOTES:

- These foundation depths are for sites which have cohesive soils (clayer sit, sandy clay, etc.) doing
 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 Burbau of Bridges & structures should be contacted for a revised
 design if other conditions are encountered.
- 2. Combination mast arm assembles under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination most arm assembles 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.

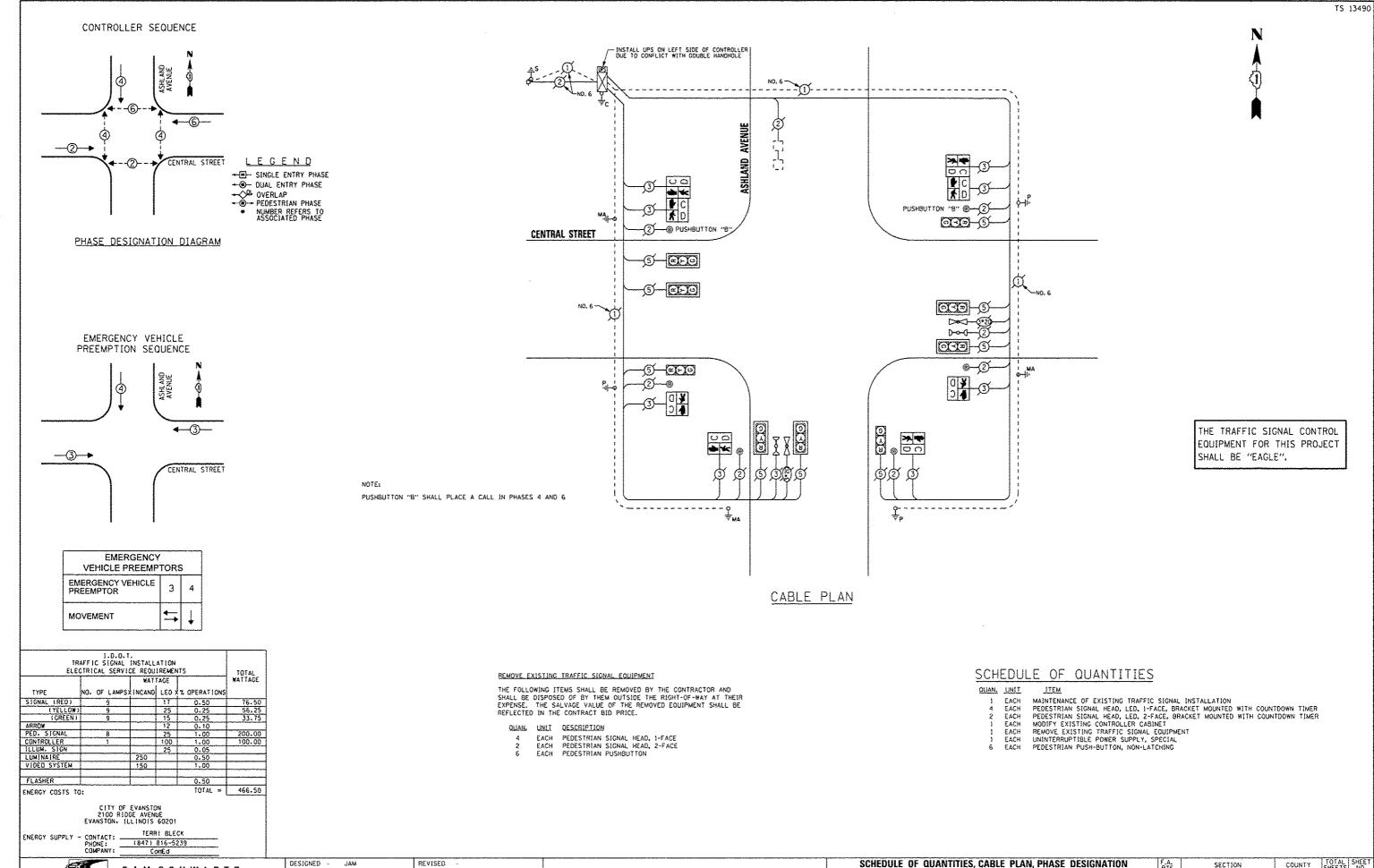
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = konthophixaybc	DESIGNED -	DAG	REVISED -	
ci/pw.work/PWIDOT/KANTHAPHIXAYBC/d81(26	4\traffic_legend_v7.dgn	DRAWN -	BCK	REVISED -	
	PLOT SCALE + 29.0980 ' / IN.	CHECKED -	DAD	REVISED -]
	PLOT DATE - 18/6/2889	DATE -	10/28/09	REVISED -	1

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DISTRICT 1	F.A. RTÉ,	SECTION	COUNTY	TOTAL SHEETS	SHEE
ANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR	2013-053T\$	COOK	88	15
ANDARD TRAFFIC STONAL DESIGN DETAILS			CONTRACT	NO. 6	60X2
SHEET NO S OF A SHEETS STA TO STA	ECO 8	OAD DIST NO TRANSCISSO A	ID DOOLECT	-	

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITFM	REMOVAL	EXISTING	PROPOSED	ITEM	BEMOVAL	EVICTING	PROPOSEO
ITEM	_			ITEM	R ≪			ELECTRIC CABLE IN CONDUIT, TRACER,	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	\sim_ "			EMERGENCY VEHICLE LIGHT DETECTOR	e⊂i R _{o−(i}	∞	• ∢	NO. 14 1/C. UNLESS NOTED OTHERWISE		- 0-	
RAILROAD CONTROL CABINET COMMUNICATIONS CABINET	R.	≥ ≤ 3 EC d	E CC	CONFIRMATION BEACON		0-0	⊷ 4	COAXIAL CABLE		<u> </u>	<u> </u>
MASTER CONTROLLER	[CC]	EKC		HANDHOLE	R⊠	Ø				•	Ŭ
MASTER MASTER CONTROLLER		EMMC	MC MMC	HEAVY DUTY HANDHOLE	R [H]	H	8	VENDOR CABLE FOR CAMERA		⊸ Ø—	(V)
UNINTERRUPTIBLE POWER SUPPLY	UPS R	EUPS	<u>[UPS]</u>	DOUBLE HANDHOLE	R	22		COPPER INTERCONNECT CABLE,		-6-	6
SERVICE INSTALLATION,	-D ^R	-D ²	- #	JUNCTION BOX	^R O		6)	NO. 18 3 PAIR TWISTED. SHIELDED FIBER OPTIC CABLE		,	\smile
(P) POLE OR (G) GROUND MOUNT TELEPHONE CONNECTION			_	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				NO. 62.5/125, MM12F		− (25)−	
(P) POLE OR (G) GROUND MOUNT	R	f	'n	TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		-245-	(24F)
STEEL MAST ARM ASSEMBLY AND POLE	R O	0	•	AND CABLE	are of solid - endings are seen.	mineral a manife desired representations	manuscript and a second se	FIBER OPTIC CABLE NO. 62.5/125.			
ALUMINUM MAST ARM ASSEMBLY AND POLE	Q	0		COMMON TRENCH			CT	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		- Ø-	-0-
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	^R O-¤——	O-X	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		\$	CNC S	GROUND ROD AT (C) CONTROLLER,			
STEEL COMBINATION MAST ARM	RQ	Q	•	INTERSECTION ITEM		ŗ	IP.	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C,	C ₁
ASSEMBLY AND POLE WITH PTZ CAMERA	P	PIZD	PIZ	REMOVE ITEM	R	1	11-	CONTROLLER CABINET AND	RCF		
SIGNAL POST	R _O	0	•	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED	\bowtie		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	^R ⊗	8	₩.	ABANDON ITEM	А			STEEL MAST ARM POLE AND	RMF		
GUY WIRE	>9-	>	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED ALUMINUM MAST ARM POLE AND			
SIGNAL HEAD	- → - →	\rightarrow	***	12" (300mm) RED WITH 8" (200mm)		R		FOUNDATION TO BE REMOVED	RMF		
SIGNAL HEAD CONSTRUCTION STACES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2	YELLOW AND GREEN TRAFFIC SIGNAL FACE		ğ	, -	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF		
SIGNAL HEAD WITH BACKPLATE	+⇔ R	+	+				R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD OPTICALLY PROGRAMMED	−D.,b.,			SIGNAL FACE		Q	G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	O 6 "F"	O-€ ^{″F} "	•• "F"				4 Y	INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD	A	-0	~ I		-	(R)	R	SAMPLING (SYSTEM) DETECTOR		151	S
PEDESTRIAN PUSHBUTTON DETECTOR	8	©	®	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			Y	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	'AD	[P]	۳
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	(APS			E	e Y e G	***************************************	QR	├	
ILLUMINATED SIGN "NO LEFT TURN"	S	8	9				''p''	EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR	Pρ	
ILLUMINATED SIGN	R			12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		Pis	PIS
"NO RIGHT TURN"	®	8	®	12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS
DETECTOR LOOP, TYPE I		r		INTERNATIONAL SYMBOL, OUTLINED			- Americans		· · · · · · · · · · · · · · · · · · ·		·
PREFORMED DETECTOR LOOP		P - 9	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			*	RAILROAD	SYMBO	OLS	
MICROWAVE VEHICLE SENSOR	R MD	[M])	M	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		© C D	₽ C K D			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	R Vþ	(V)	(V)	RADIO INTERCONNECT	- 0	##•0		RAILROAD CONTROL CABINET			
VIDEO DETECTION ZONE						1.	,.	RAILROAD CANTILEVER MAST ARM	,	X 0X 	X QX X
	R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL	•	X o X	X-X
PAN, TILT, ZOOM CAMERA	PTZD	PU	PZ	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		(5)	(5)			*	
WIRELESS DETECTOR SENSOR	RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		~	<u> </u>	CROSSING GATE		X0X=	>
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			(1)	CROSSBUCK		*	*
ILE NAME : USER NAME : konthophixoyi shpw.work\PWIDOT\KANTHAPHIXAYBC\d81126 4\troffic.logand.v7.dgn PLOT SCALE : 28.3988 ' / ii PLOT DATE : 18/6/2889	DR)	SIGNED - DAG/BCK AWN - BCK ECKED - DAD TE - 10/28/09	REVISED - REVISED - REVISED - REVISED -	STATE DEPARTMENT	OF ILLINOIS OF TRANSPO		SCALE: NO	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL NE SHEET NO. 6 OF 6 SHEETS STA. TO STA.		SECTION 2013-053TS D DIST. NO. FILLINDIS FEE	COUNTY TOTAL SHEETS NO COOK 88 16 CONTRACT NO. 60X2



SAMSCHWARTZ
ENGINEERING
3100 KHCCINS, SIE. 100, NOTEWAH ESTAIES, IL 60169

 DRAWN
 JAM
 REVISED

 CHECKED
 LMM
 REVISED

 DATE
 12-13-13
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, CENTRAL STREET AT ASHLAND AVENUE

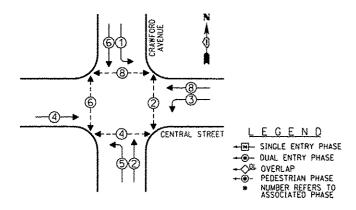
NONE SHEET OF SHEETS STA. TO STA.

A. SECTION COUNTY TOTAL SHEET NO.

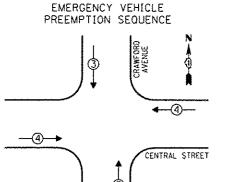
VAR 2013-053TS COOK 88 17

CONTRACT NO. 60X28

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMP		S
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	J.	←

		WAT	AGE		WATTAGE
TYPE	NO. OF LAMPS	INCAND	LE0 X	% OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	12		12	0.10	14.40
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO				TOTAL =	536.40

CITY OF EVANSION 2100 RIDGE AVENUE EVANSION. ILLINOIS 60201

ENERGY SUPPLY - CONTACT:

TERRI BLECK (847) 816-5239 NOTE:

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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.

CENTRAL STREET ------**633**-6 **9∃** ভানতাইত PUSHBUTTON "A" @-(2) 0 **¥** vo INSTALL UPS ON LEFT SIDE OF CONTROLLER DUE TO CONFLICT WITH WAST ARM POLE ÷₩A CABLE PLAN

±WA

SCHEDULE OF QUANTITIES

OUAN. UNIT ITEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH

EACH EACH EACH EACH

UNINTERRUPTIBLE POWER SUPPLY, SPECIAL PEDESTRIAN PUSH-BUTTON, NON-LATCHING

QUAN. UNIT DESCRIPTION

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

TRACER CABLE

EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SAM SCHWARTZ ENGINEERING 3100 W. HIGGENS, SIE, 100, HOFFMAN ESTATES, IL 60169

 DESIGNED	-	JAM	REVISED	-
DRAWN	-	JAM	REVISED	*
CHECKED	-	LMM	REVISED	*
DATE	-	12-13-13	REVISED	-
 				

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, CENTRAL STREET AT CRAWFORD AVENUE

TOTAL SHEETS NO. SECTION COUNTY COOK 88 18 2013-053TS VAR CONTRACT NO. 60X28 ILLINOIS FED. AID PROJECT

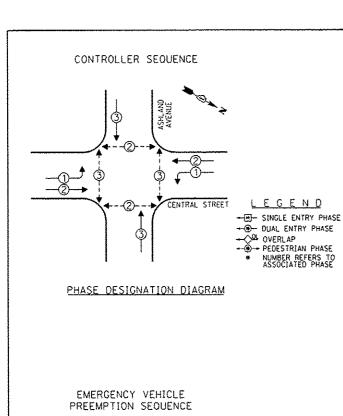
THE TRAFFIC SIGNAL CONTROL

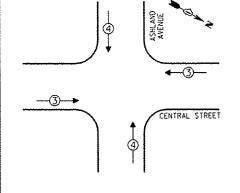
EQUIPMENT FOR THIS PROJECT

SHALL BE "EAGLE".

SHEETS STA.







EMERGENCY VEHICLE PREEMP		 S
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	+	↓ ↑

TR ELEC	TOTAL				
		1 1	FAGE		WATTAGE
TYPE	NO. OF LAMPS	KINCAND	LED >	7 OPERATIONS	
SIGNAL IRED)	13		17	0.50	110.50
(YELLOW)	13		25	0.25	81.25
(GREEN)	13		15	0.25	48.75
ARROW .	12		12	0.10	14,40
PED. SICHAL	8		25	1.00	200.00
CONTROLLER	1		100	1,00	100.00
ILLUM. SIGN			.25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1,00	
FLASHER				0.50	
ENERGY COSTS TO):			TOTAL =	554.90

TERRI BLECK ENERGY SUPPLY - CONTACT: TERRI BLECK PHONE: (841) 616-5239 COMPANY: COMEd

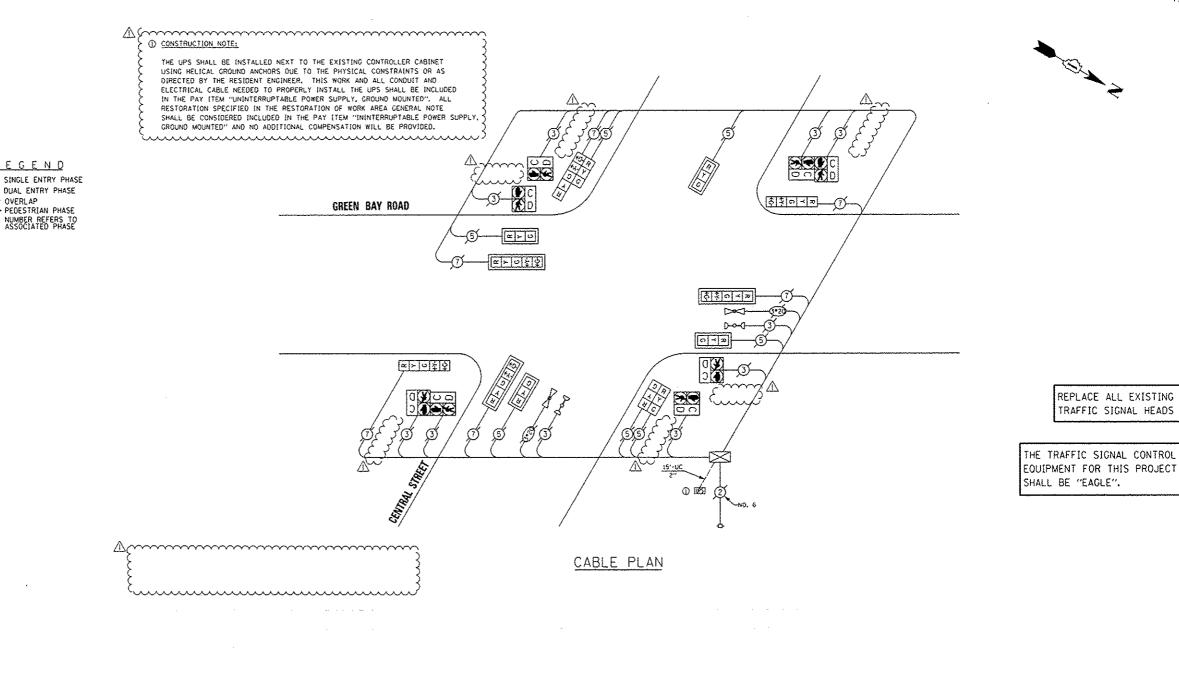
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DRAWN	-	JAM	REVISED	-
CHECKED	-	LMM	REVISED	*
 DATE	-	12-13-13	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, CENTRAL STREET AT GREEN BAY ROAD SHEETS STA. SHEET

COUNTY TOTAL SHEET NO.
COOK 88 19 SECTION COUNTY VAR 2013-053TS CONTRACT NO. 60X28 ILLINOIS FED. AID PROJECT

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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 BIO PRICE.

QUAN. UNII DESCRIPTION

EACH SIGNAL HEAD, 1-FACE, 3-SECTION EACH SIGNAL HEAD, 1-FACE, 5-SECTION

EACH

SIGNAL HEAD, 2-FACE, 3-SECTION SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION

TRAFFIC SIGNAL BACKPLATE

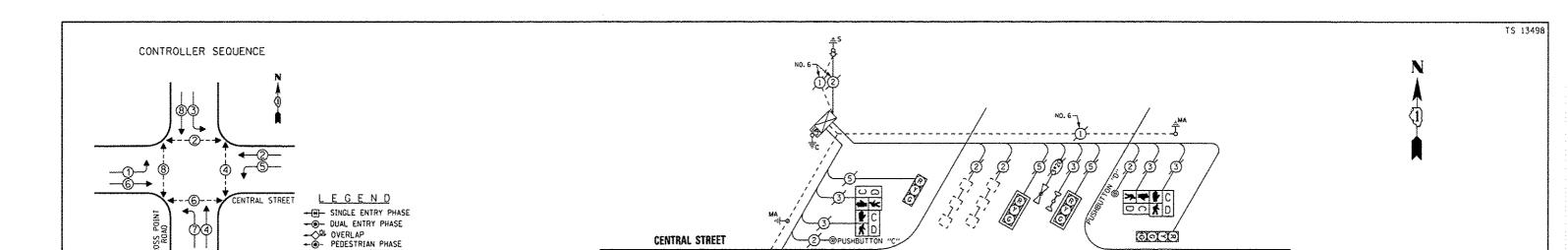
SCHEDULE OF QUANTITIES

OUAN, UNIT ITEM EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

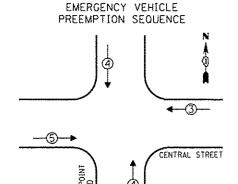
1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4 EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
3 EACH SIGNAL HEAD, LED, 2-FACE, 5-SECTION, MAST ARM MOUNTED
1 EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1 EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1 EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1 EACH MOUNTE STITING CONTROLLER CABINET
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1 EACH UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED

SAM SCHWARTZ ENGINEERING 3100 M. HICCIRS, STE. 100, HOFFMAN ESTATES, IL 60169



@D@

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	
MOVEMENT	4	‡ ↑	-	

1.0.0.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL
TYPE	NO. OF LAMPS	WATI		% OPERATIONS	WATTAGE
SIGNAL (RED)	18		17	0.50	153.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45,00
ARROW			12	0.10	
PED. SIGNAL	8		25	1,00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER		<u> </u>		0.50	
ENERGY COSTS TO):			TOTAL =	573.00

CITY OF EVANSTON 2100 RIDGE AVENUE EVANSTON. ILLINOIS 60201

TERRI BLECK ENERGY SUPPLY - CONTACT: TERR! BLECK
PHONE: (847) 816-5239
COMPANY: COMEd NOTE:

NUMBER REFERS TO ASSOCIATED PHASE

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8 PUSHBUTTON "O" SHALL PLACE A CALL IN PHASES 2 AND 8

÷₩A

@F-1019)

CABLE PLAN

(MOCE)

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

DEPARTMENT OF

QUAN. UNII DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN, UNIT ITEM

TRACER CABLE

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH EACH

EACH EACH EACH EACH



DESIGNED	-	JAM	REVISED	**
DRAWN	-	JAM	REVISED	*
CHECKED	-	LIMIN	REVISED	-
DATE	-	12-13-13	REVISED	-

STATE	OF.	ILLINOIS	
MENT	OF 7	TRANSPORTATION	Į

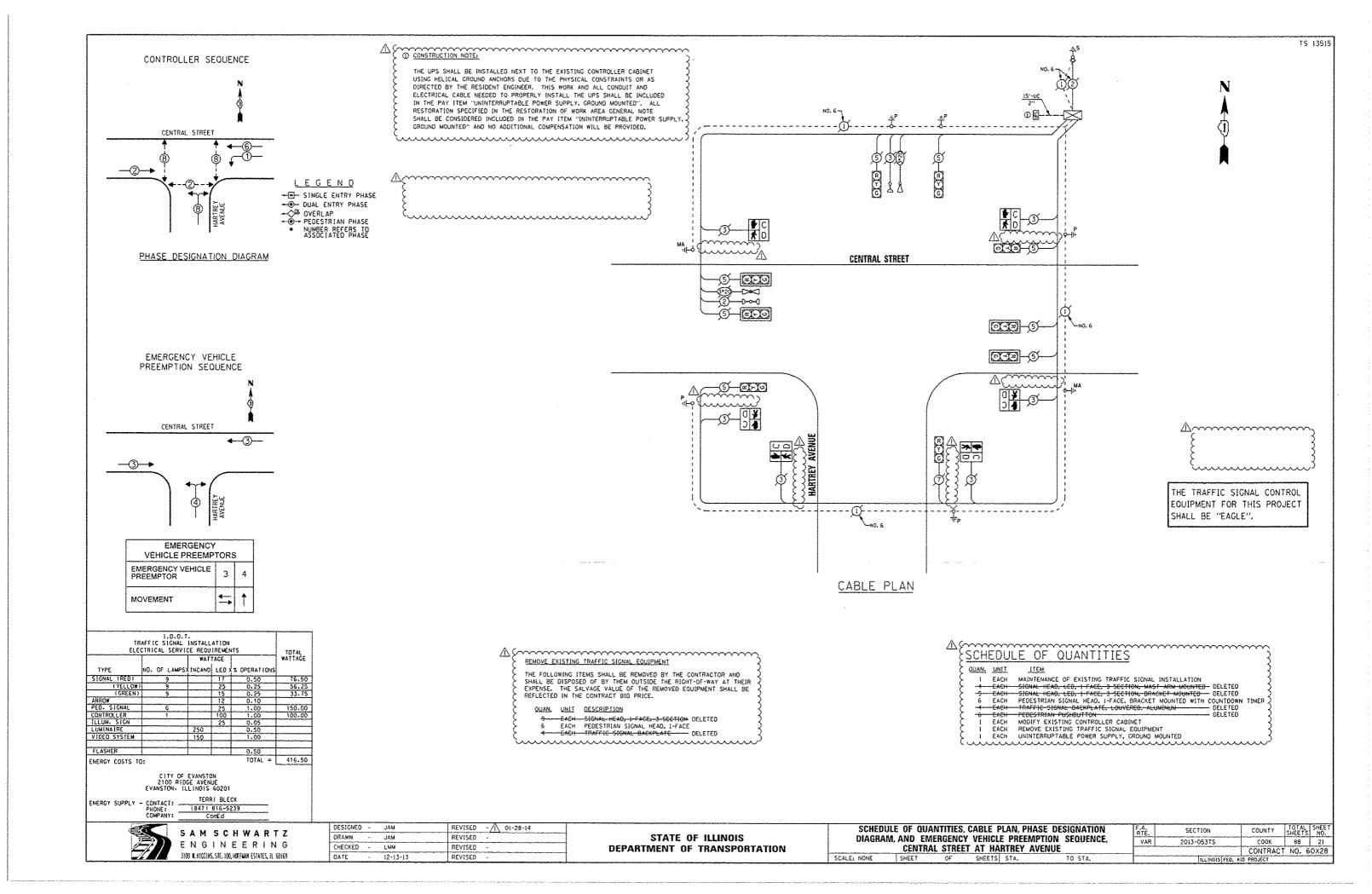
			CABLE PLAN, PHA	
	CENTRAL	STREET	AT GROSS POINT	ROAD
NONE	SHEET	٥F	SHEETS STA.	TO STA.

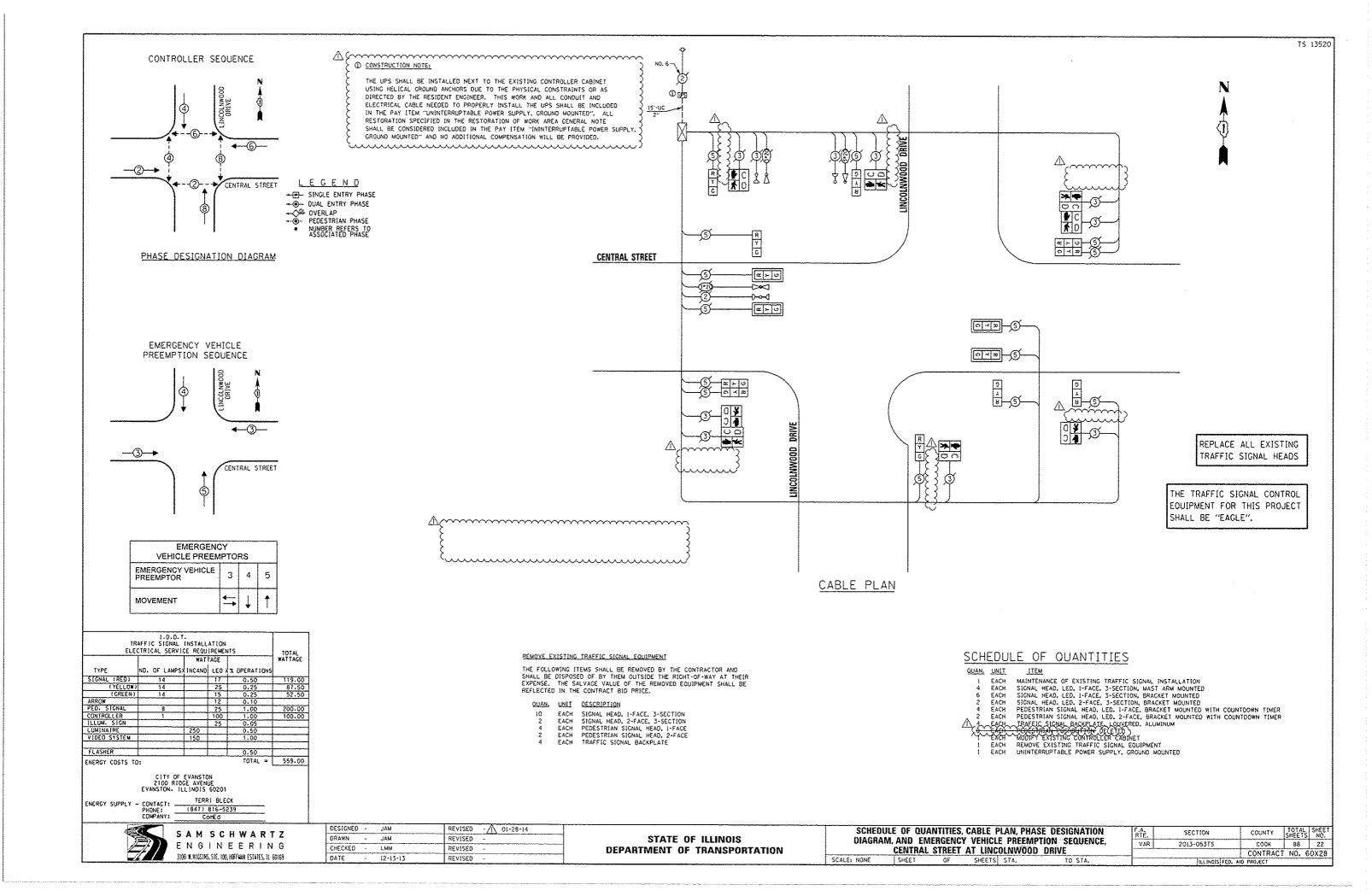
- Control	F.A. RTE.	SECTION .	COUNTY	TOTAL SHEETS	SHEET NO.
1	VAR	2013-053TS	COOK	88	20
_			CONTRACT	NO. 6	0X28
- 1		ILLINOIS FED. A	O PROJECT		

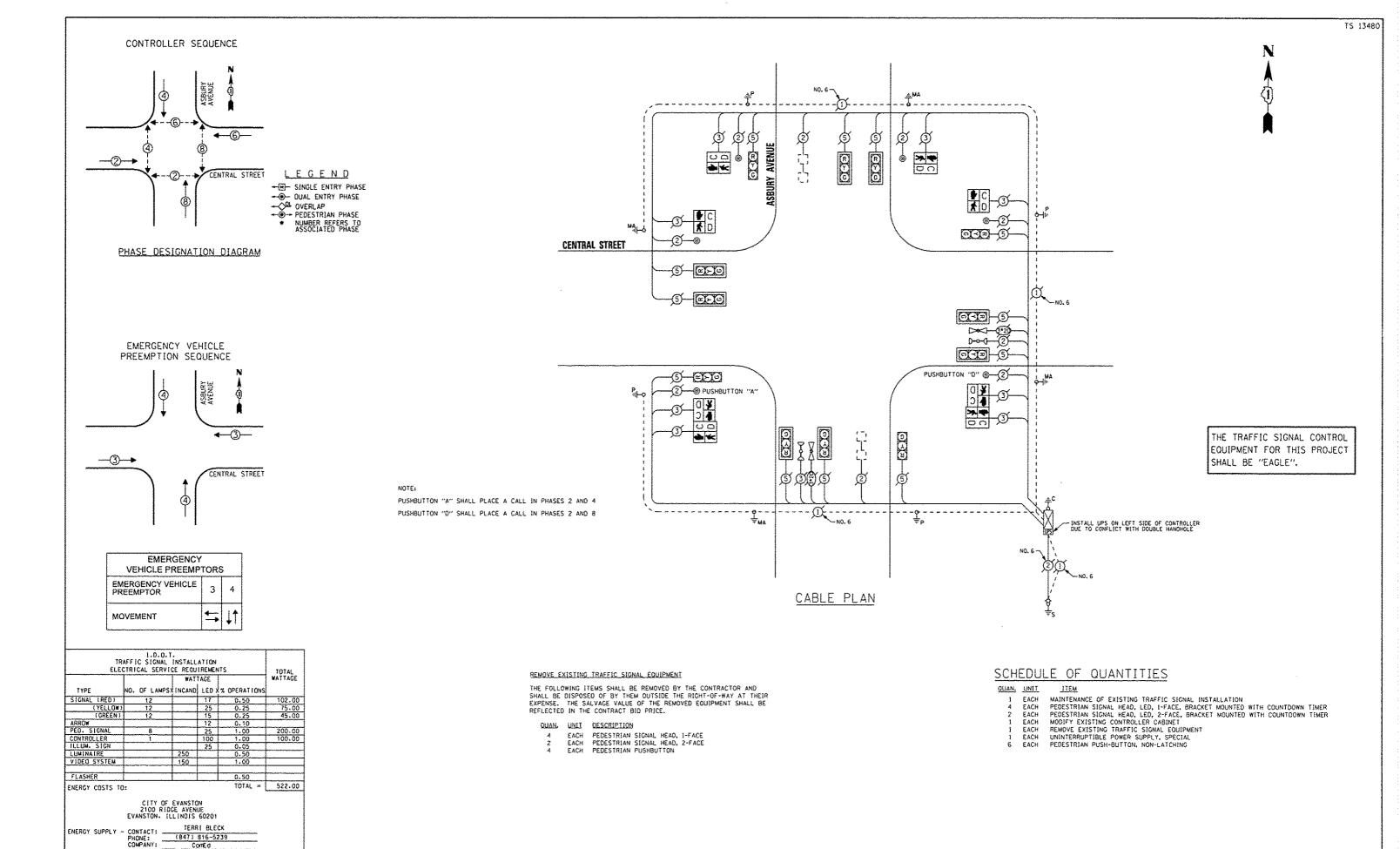
THE TRAFFIC SIGNAL CONTROL

EOUIPMENT FOR THIS PROJECT

SHALL BE "EAGLE".







SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE. 100, HOFFMAN ESTATES, IL 60169

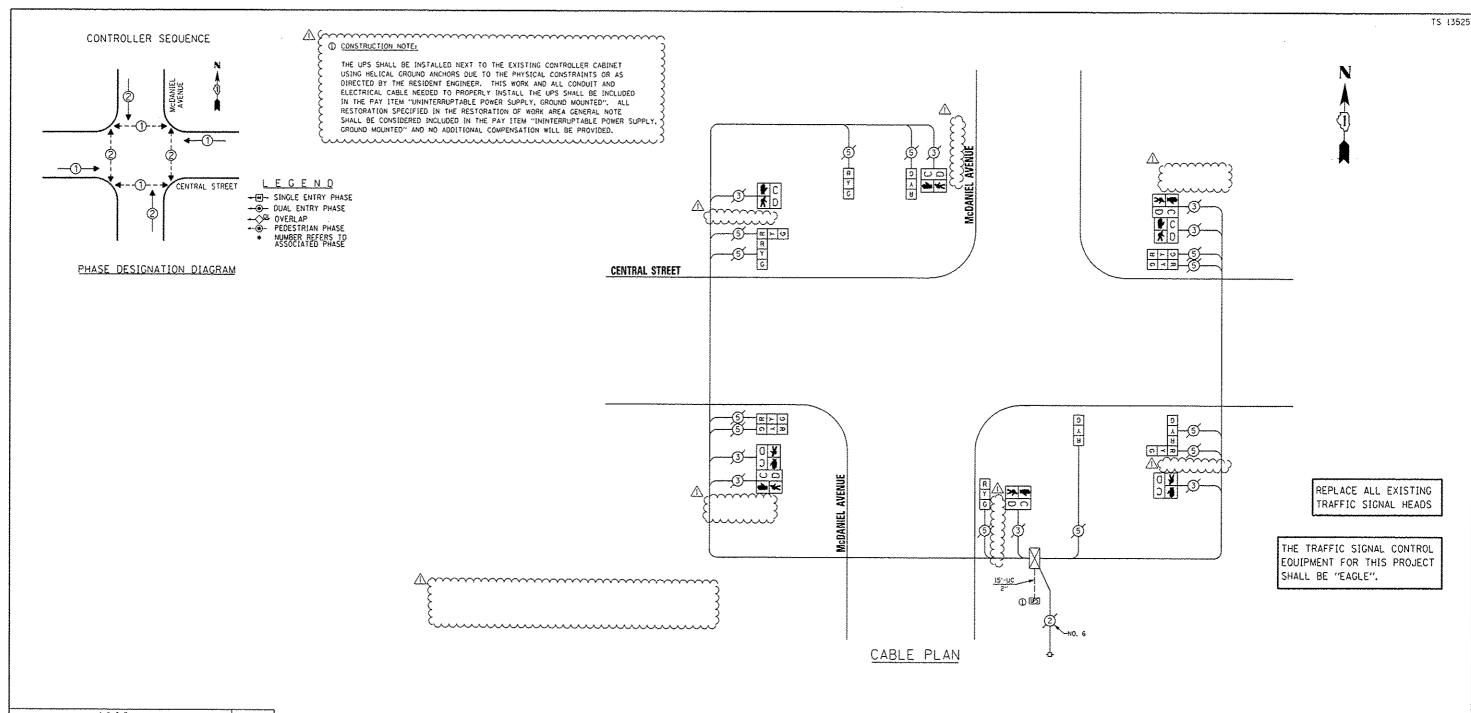
(847) 816~5239

DESIGNED -JAM REVISED DRAWN JAM REVISED CHECKED LMM REVISED DATE 12-13-13 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, CENTRAL STREET AT ASBURY AVENUE SHEETS STA. SHEET

SECTION VAR 2013-053TS COOK 68 23 CONTRACT NO. 60X28



	1.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS)		TAGE LED >	% OPERATIONS	TOTAL WATTAGE	
SIGNAL IRED)	15		17	0.50	102.00	
(YELLOW)	12		25	0.25	75.00	
(GREEN)	12		15	0.25	45.00	
ARROW			12	0.10		
PED. SIGNAL	8		25	1,00	200.00	
CONTROLLER	1		100	1.00	100.00	
ILLUM. SIGN			25	0.05		
LUMINAIRE		250		0.50		
VIDEO SYSTEM		150		1.00		
FLASHER				0.50		
ENERGY COSTS TO):	····		TOTAL =	522.00	

CITY OF EVANSION 2100 RIDGE AVENUE EVANSION. ILLINOIS 60201

TERRI BLECK ENERGY SUPPLY

(847) 816-5239

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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 BIO PRICE.

QUAN. UNIT DESCRIPTION

- EACH SIGNAL HEAD, 1-FACE, 3-SECTION EACH SIGNAL HEAD, 2-FACE, 3-SECTION EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE

SCHEDULE OF QUANTITIES

QUAN. UNIT

- EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

- EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
 EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
 EACH SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
 EACH MODIFY EXISTING TRAFFIC SIGNAL
 EACH MODIFY EXISTING TRAFFIC SIGNAL EQUIPMENT
 EACH UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED

DESIGNED - JAM REVISED - 1 01-28-14 SAM SCHWARTZ DRAWN -JAM REVISED CHECKED -LMM REVISED 12-13-13 REVISED

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, CENTRAL STREET AT McDANIEL AVENUE

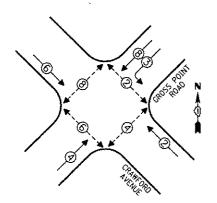
SECTION 2013-05375 COOK 88 24 CONTRACT NO. 60X28

STATE OF ILLINOIS

ENGINEERING 3100 M. HICCEINS, STE, 100, HOFFTMAN ESTATES, 11, 60169

DEPARTMENT OF TRANSPORTATION

CONTROLLER SEQUENCE

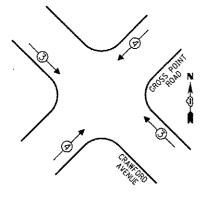


EGEND

- FI SINGLE ENTRY PHASE - DUAL ENTRY PHASE
- OVERLAP
 PEDESTRIA PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	1	<u>.</u> / 7		

TR. ELEC	TOTAL					
TYPE	NO. OF LAMPS	1 .	LED :	% OPERATIONS	WATTAGE	
SIGNAL (RED)	. 12		1?	0.50	102-00	
(YELLOW)	12		25	0.25	75.00	
(GREEN)	12		15	0.25	45.00	
ARROW	4		12	0.10	4.80	
PED. SIGNAL	8		25	1.00	200.00	
CONTROLLER	1		100	1.00	100.00	
ILLUM. SIGN			25	0.05		
LUMINAIRE		250		0.50		
VIDEO SYSTEM		150		1.00	···	
FLASHER				0.50		
ENERGY COSTS TO):			TOTAL =	526.80	

CITY OF EVANSTON 2100 RIDGE AVENUE EVANSTON: ILLINOIS 60201

ENERGY SUPPLY - CONTACT: ____ PHONE: COMPANY:

TERRI BLECK (847) 816-5239

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4

PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

CABLE PLAN

TRACER CABLE -

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE".

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUAN. UNII DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH EACH EACH

EACH

SAM SCHWARTZ ENGINEERING 3100 M. HEGGINS, STE. 100, HOFFMAN ESTATES, IL 60169

	DESTONED	~	JAM.	KEVIDEU		
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	CHECKED		FMM	REVISED		
	DATE	~	12-13-13	REVISED	4	
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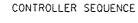
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

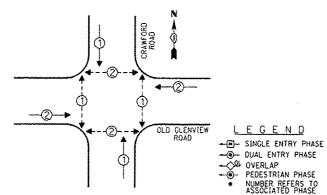
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, GROSS POINT ROAD AT CRAWFORD AVENUE
SHEET OF SHEETS STA. TO SHEET

COUNTY TOTAL SHEET NO.

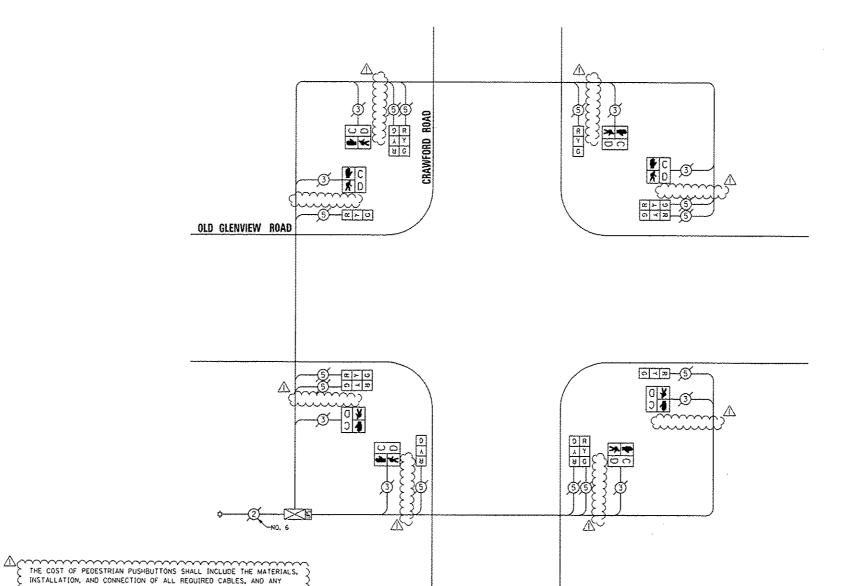
COOK 88 25 SECTION COUNTY 2013-053TS VAR CONTRACT NO. 60X28







PHASE DESIGNATION DIAGRAM



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE".

	AFFIC SIGNAL CTRICAL SERVI				TOTAL
		WAI	AGE		WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED)	7 OPERATIONS	
SIGNAL (RED)	12		1?	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	15		15	0,25	45.00
ARROW			12	0.10	
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
(ELUM, SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDED SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO	1.			TOTAL =	522.00

CITY OF EVANSTON 2100 RIDGE AVENUE EVANSTON: ILLINOIS 60201

TERRI BLECK ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: 18471 816-5239
COMPANY: Comed

REMOVE EXISTING TRAFFIC SIGNAL FOULPMENT

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.

QUAN. UNIT DESCRIPTION

MODIFICATIONS TO EXISTING POSTS OR POLES THAT MAY BE REQUIRED TO PROPERLY MOUNT THE PUSHBUTTONS.

EACH SIGNAL HEAD, 1-FACE, 3-SECTION EACH SIGNAL HEAD, 2-FACE, 3-SECTION EACH PEDESTRIAN SIGNAL HEAD, 1-FACE

SCHEDULE OF QUANTITIES

QUAN. UNIT

i EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

4 EACH SIGNAL HEAD, LED. 1-FACE. 3-SECTION, BRACKET MOUNTED

4 EACH SIGNAL HEAD, LED. 2-FACE, 3-SECTION, BRACKET MOUNTED

5 EACH SEDESTRIAN SIGNAL HEAD, LED, 1-FACE. BRACKET MOUNTED WITH COUNTDOWN TIMER

6 CACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE. BRACKET MOUNTED WITH COUNTDOWN TIMER

6 CACH PEDESTRIAN SIGNAL TEAD.

1 EACH MODIFY EXISTING CONTROLLER CABINET

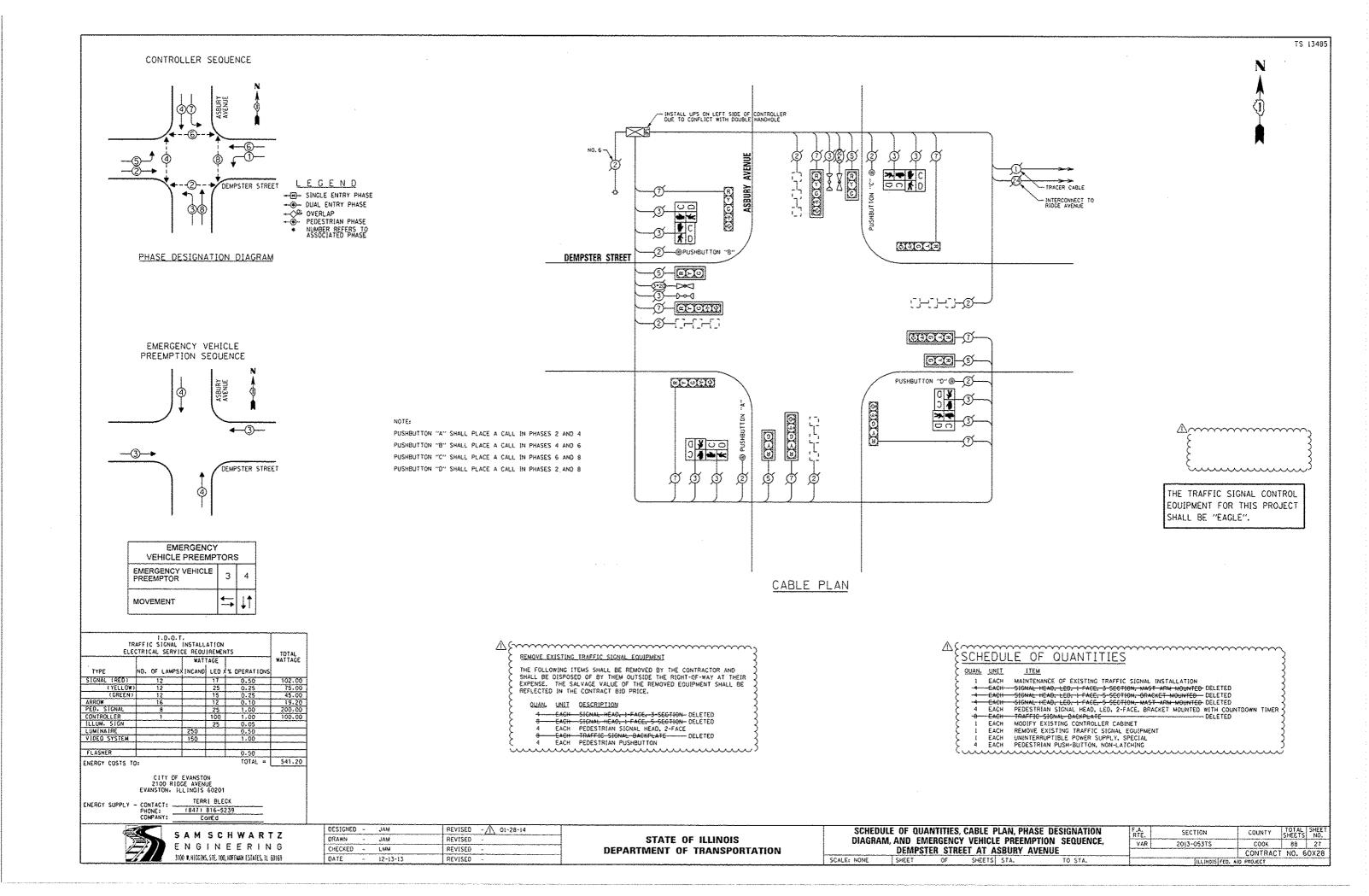
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

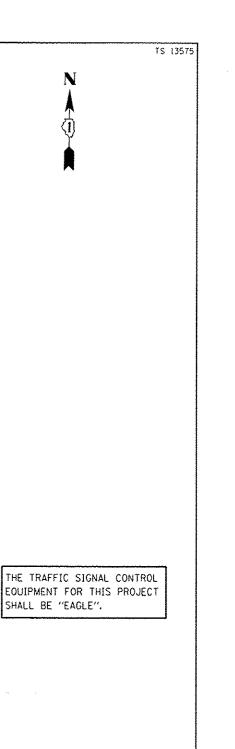
1 EACH UNINTERRUPTIBLE POWER SUPPLY. SPECIAL

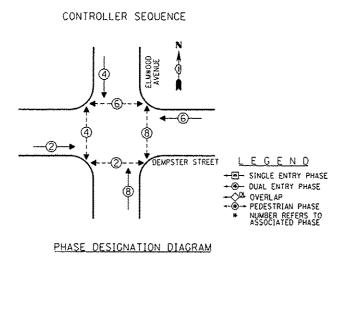
SAM SCHWARTZ ENGINEERING 3100 M, HIGGINS, STE, 100, HOFFMAN ESTATES, 11, 60169

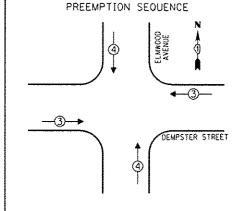
 DESIGNED	-	JAM	REVISED	- 1 01-28-14
DRAWN	4	JAM	REVISED	-
CHECKED	_	LMM	REVISEO	*
DATE	-	12-13-13	REVISED	-

_										
					I HAVE DESIGNATION	F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO,
					EMPTION SEQUENCE,	VAR	2013-05375	COOK	88	26
	···		KUAD	AT OLD GLEN				CONTRACT	NO. 6	0X28
	SCALE: NONE	SHEET	QF	SHEETS STA,	TO STAL		ILLINOIS FEO. A	O PROJECT	-in-rathiesed-run	and made a









EMERGENCY VEHICLE

EMERGENCY VEHICLE PREEMP		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		Į†

TR ELEC	TOTAL				
TYPE	NO. OF LAMPS)	1	TAGE	* ODEDATIONS	WATTAGE
SIGNAL (RED)	12	1 ETECHINO	17	0.50	102,00
					
(YELLOW)			25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW			12	0.10	
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM, SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDED SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO):			TOTAL =	522.00

CITY OF EVANSTON 2100 RIDGE AVENUE EVANSTON: ILLINOIS 60201

TERRI BLECK - CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: ComEd ENERGY SUPPLY

> SAM SCHWARTZ ENGINEERING 3100 T. HICCHES, STE. 100, HOFFMAN ESTATES, IL 60169

DESIGNED - JAM REVISED - 1 01-28-14 DRAWN - JAM REVISED CHECKED - LMM REVISED 12-13-13 REVISED

STATE OF ILLINOIS

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, DEMPSTER STREET AT ELMWOOD AVENUE

SHEETS STA.

SHEET

COUNTY TOTAL SHEE NO. SECTION RTE. COOK 88 28 2013-053TS VAR CONTRACT NO. 60X28

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

SCHEDULE OF QUANTITIES

OUAN. UNIT TLEW

I EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

8 FACH PEDESTRIAN SIGNAL HEAD, LED, L-EACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

6 FACH FEDESTRIAN PESIBELITIAN OFFICE CABINET

1 EACH MODITY EXISTING CONTROLLER CABINET

1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

EACH UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

DEMPSTER STREET

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.

QUAN. UNIT DESCRIPTION 8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE

DEPARTMENT OF TRANSPORTATION

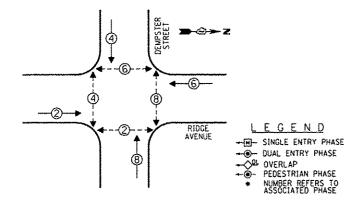
NO. 6 -

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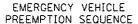
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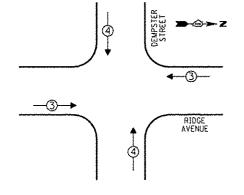
CABLE PLAN





PHASE DESIGNATION DIAGRAM





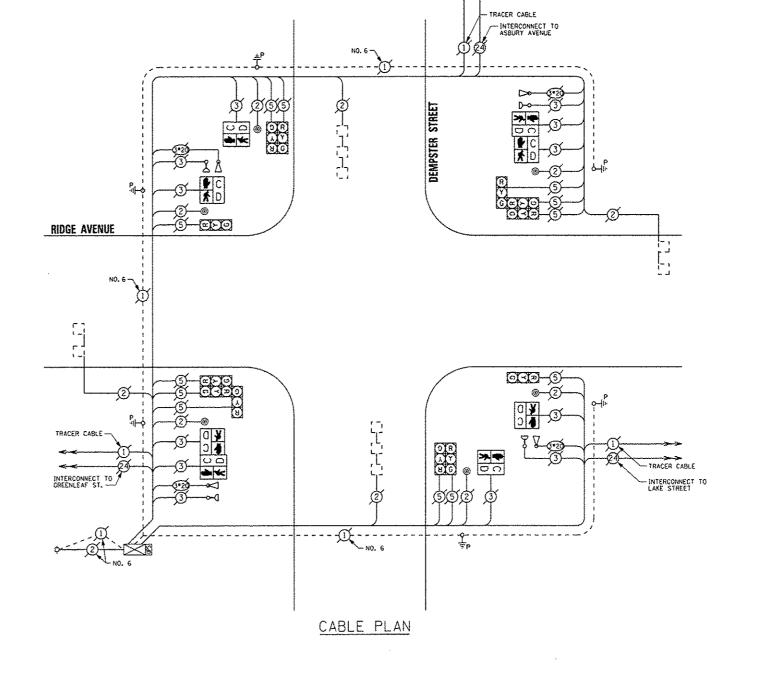
EMERGENCY VEHICLE PREEMP		3
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	-	Į†

TR ELE(TOTAL				
*		WAT			WATTAGE
TYPE	NO. OF LAMPS	CINCAND	LED I	% OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW			12	0.10	
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER	l			0.50	
ENERGY COSTS TO):			TOTAL =	522.00

CITY OF EVANSTON 2100 RIDGE AVENUE EVANSTON, ILLINOIS 60201

ENERGY SUPPLY - CONTACT: __

TERRI BLECK (847) 816-5239



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNIT DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN, UNIT ITEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH EACH

EACH

UNINTERRUPTIBLE POWER SUPPLY, SPECIAL PEDESTRIAN PUSH-BUTTON, NON-LATCHING

EACH EACH EACH EACH



SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE. 100, HOFFWAN ESTATES, IL 60169

DESIGNED	-	JAM	REVISED	-
DRAWN	~	JAM	REVISED	*
CHECKED	-	LMM	REVISED	-
 DATE	-	12-13-13	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DEMPSTER STREET AT RIDGE AVENUE SHEET OF SHEETS STA. SHEET

	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AR.	2013-053TS	COOK	88	29
		CONTRACT	NO. E	OX28
	ILLINOIS FED. AL	O PROJECT		

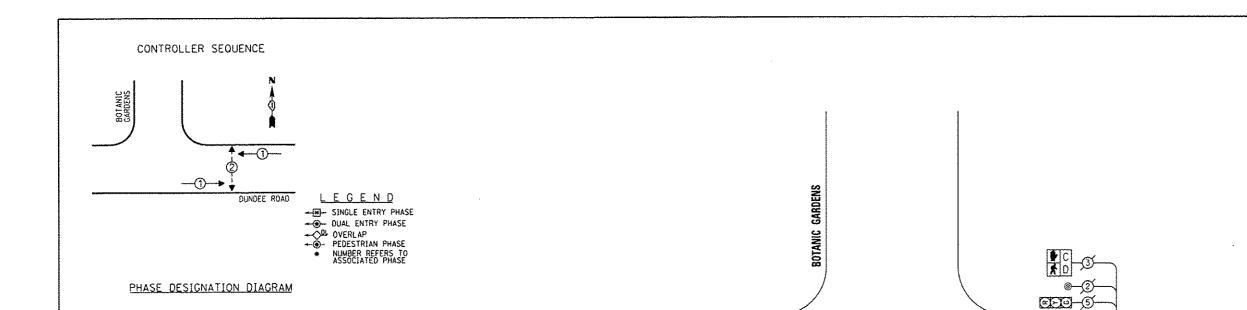
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT

SHALL BE "EAGLE".

TS 13595

→ ② > Z

DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE,



CABLE PLAN

DUNDEE ROAD

TR Ele	TOTAL				
TYPE	NO. OF LAMPS	1	LED >	% OPERATIONS	WATTAGE
SIGNAL (RED)	4		17	0.50	34.00
(YELLOW)	4		25	0.25	25.00
(GREEN)	4		15	0.25	15.00
ARROW			12	0.10	
PED, SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINATRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO):			TOTAL =	224.00

VILLAGE OF CLENCOE 675 VILLAGE COURT GLENCOE. ILLINOIS 60022

TERRI BLECK ComEd

3100 M. HIGGINS, STE, 100, HOTEMAN ESTATES, IL 60169

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUAN, UNIT DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

OLIAN. UNIT

<u>edero</u> – 20-

<u> 0336</u>-0

ITEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN PUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL EACH EACH EACH EACH EACH

ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: Comed SAM SCHWARTZ ENGINEERING

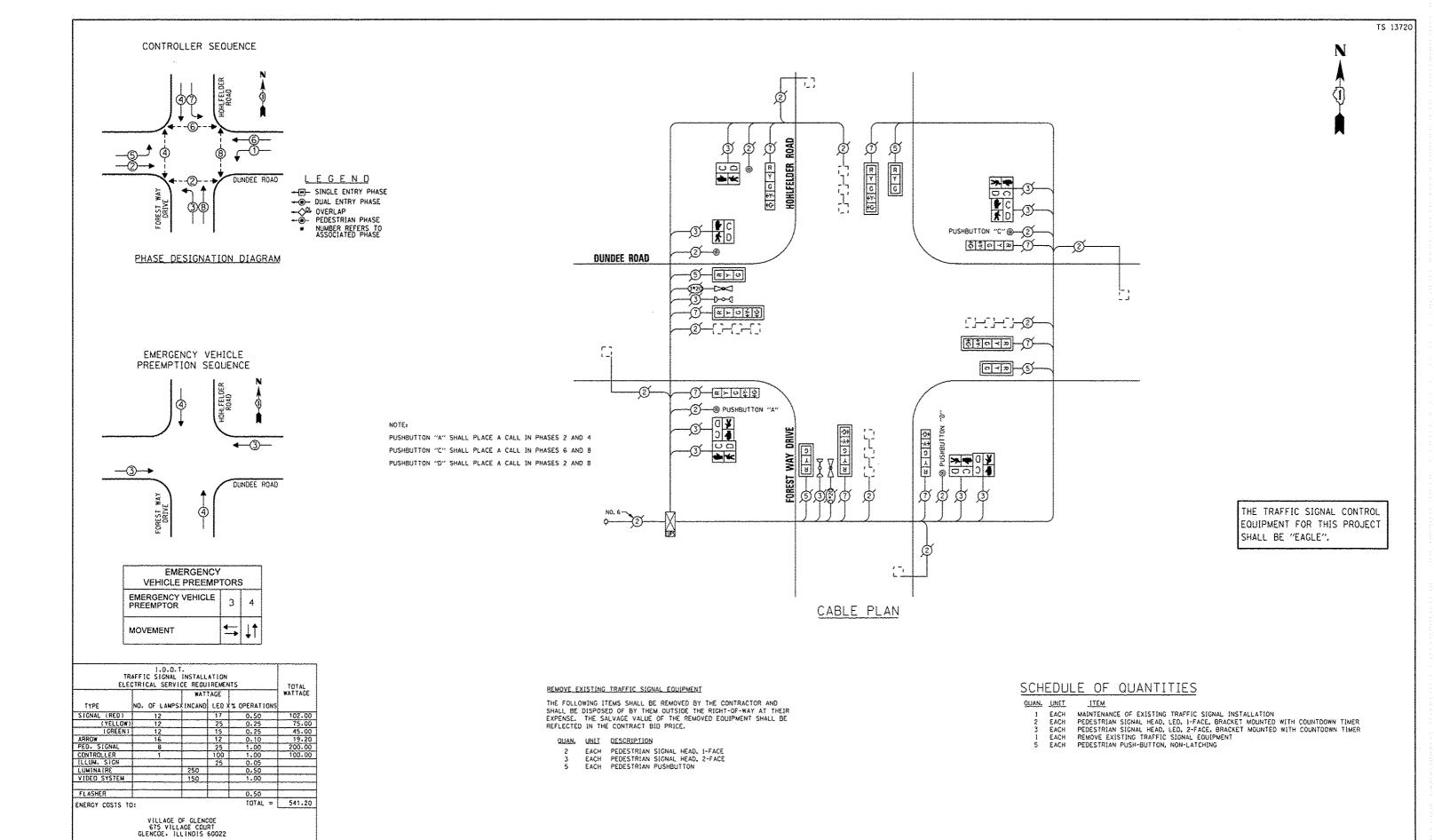
DESIGNED	~	JAM	REVISED	~
DRAWN	-	JAM	REVISED	-
CHECKED	~	LMM	REVISED	-
DATE	_	12-13-13	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, DUNDEE ROAD AT BOTANIC GARDENS PATH
SHEET OF SHEETS STA. TO

	F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	VAR	2013-053TS	COOK	88	30
,			CONTRACT	NO. 6	0X28
		ILLINOIS FED. A	O PROJECT		

TS 13718



ENERGY SUPPLY - CONTACT: TERRE BLECK
PHONE: (847) 816-5239
COMPANY: CORED

SAM SCHWARTZ ENGINEERING 3100 T. HICCINS, STE, 100, ROFFWAN ESTATES, IL 60169

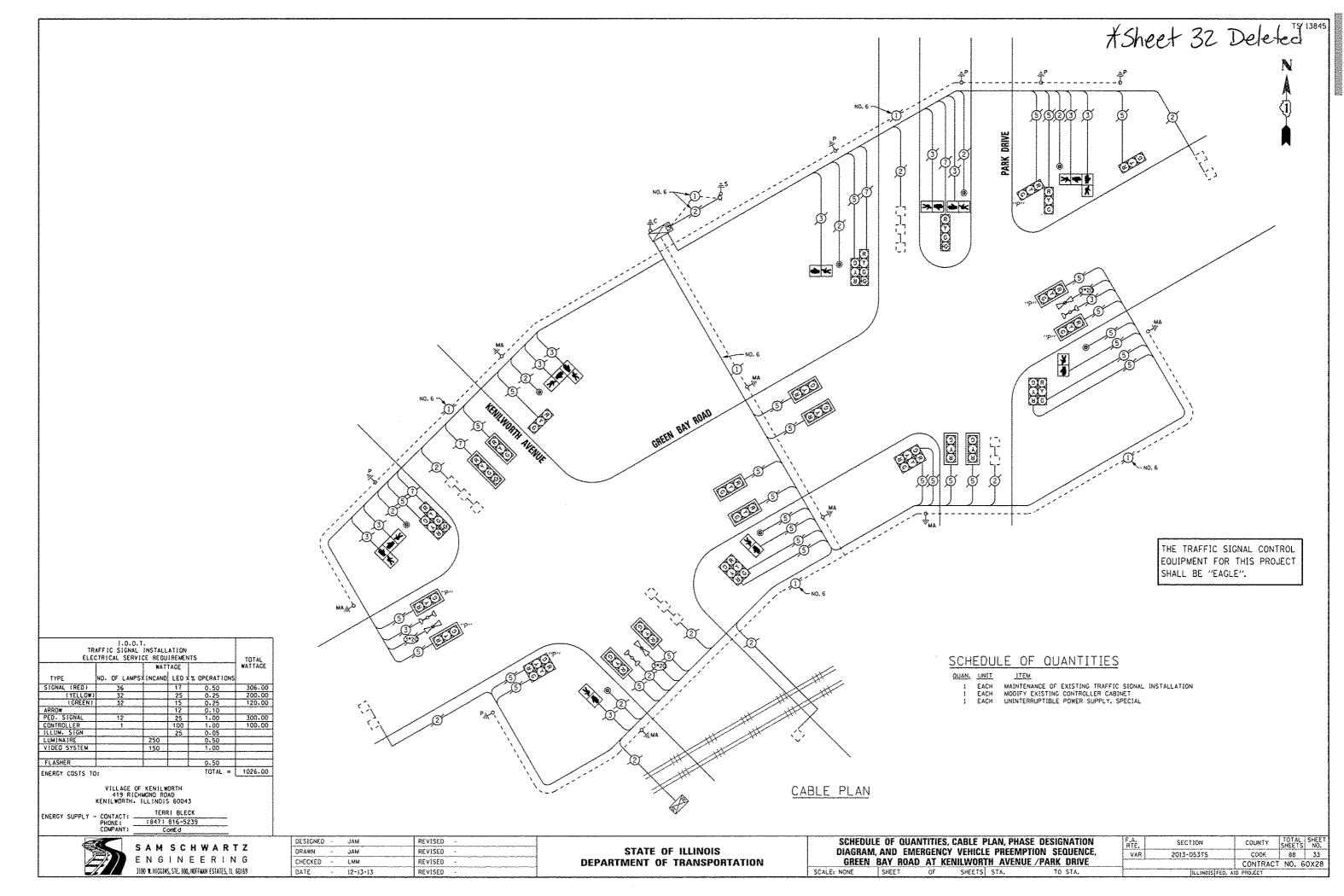
TERRI BLECK

DESIGNED -JAM REVISED DRAWN REVISED CHECKED -REVISED LMM DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE. **DUNDEE ROAD AT FOREST WAY DRIVE** SHEETS STA.

TOTAL SHEET SHEETS NO. SECTION COUNTY 2013-05375 COOK 88 31 VAR CONTRACT NO. 60X28



PEDESTRIAN SIGNALS CROSSING GREEN BAY H H H H #P **FH H H

PHASE 2-6 SHALL BE PLACED ON RECALL.

- * TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION
- ** FLASHING IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.
- P = ILLUMINATED PERSON = WALK
- FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
- H = [LLUMINATED SCLID HAND = DON'T WALK

						MPTOR BER 3			PREEMPTOR				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL MUMBER		1		4	A	ar v		S. A.	200				
CHANCE FROM EMERGENCY VEHICLE PREEMPTION SECLENCE OF OPERATION INTERVAL NUMBER				. (4)		2		3					
RAILROAD PREEMPTION SECUENCE OF OPERATION INTERVAL NUMBER	14	18	10	10	18	1,5	1 G	1 H	2	3	4	3	CLÉAR TO
CHANCE TO RAILFOAD PREEMPTION SECUENCE OF OPERATION INTERVAL NUMBER	18	2	10	2	15	2	1H	2	3	4	5		NORWAL SEQUENCE
TREEN BAY ROAD N/B ALL SIGNALS	Y	R	R	я	y	ন	R	7	Ř	Я	R	G	Δ
OREEN BAY ROAD 5/8 ALL SIGNALS	Y	R	a	37	Y	R	R	7	я	R	Я	G	Δ
KENILWORTH AVENUE E/B ALL STONALS	R	R	Y	3	R	R	Y	R	R	₹	3	R	Δ
KENILWORTH AVENUE W/B FAR RIGHT AND NEAR RIGHT SIGNALS	R	R	G	5	A	Ŗ	C	Ģ	G	۲	R	R	Δ
KEMILWORTH AVENUE #/8 FAR LEFT AND END MAST ARM SIGNALS	R	R	6	5	R	R	G	Ģ	G → G	Y	Я	B	Δ
PARK DRIVE E/0 ALL SIGNALS	R	я	Ÿ	Я	R	3	Y	R	Я	R	3	R	Δ
PARK DRIVE W/9 FAR RIGHT AND NEAR RIGHT SIGNALS	R	Я	G	G	Я	Я	G	G	G	Y	R	R	۵
PARK DRIVE W/3 FAR LEFT AND WID LEFT STONALS	я	R	С	G	R	ล	G	G	G →G	Y	8	R	Δ
PECESTRIAN SIGNALS CROSSING KENTLWORTH AVE, ON WEST SIDE OF CREEN BAY ROAD	FН	н	Н	н	Н	H	н	н	Н	H	Н	н	Δ
PEDESTRIAN SIGNALS CROSSING PARK ORIVE ON WEST SIDE OF GREEN BAY ROAD	FH	Н	Ħ	н	Ħ	н	Н	н	Н	H	Н	н	Δ
PEDESTRIAN SIGNALS CROSSING GREEN BAY ROAD ON NORTH SIDE OF KENILWORTH AVE.	Н	н	FH	н	Н	н	н	н	н	н	н	н	Δ
PEDESTRIAN SIGNALS CROSSING GREEN BAY ROAD ON SOUTH SIDE OF KENILWORTH AVE.	н	н	FH	Н	н	н	н	н	н	н	Н	Н	Δ
PEDESTRIAN SIGNALS CROSSING GREEN BAY ROAD ON NORTH SIDE OF PARK DRIVE	н	Н	FH	н	н	H	14	н	н	н	H	н	Δ

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

EMERGENCY VEHICLE PRE	EMPT	ION	SEQ	JENC	E OF	OPE	RATIC	M		PREEMPTOR	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER			1			4		4	60% Hart * 70 % of 5	manatage Market	CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	14	18	10	10	iε	15	16	18	2	3	NORMAL SEGUENCE
CHANGE TO EMERGENCY YEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1¢	:0	3	1F	1 G	2	3	2500		◊
GREEN BAY ROAD N/B ALL SIGNALS	G	G	Y	A	R	R	R	я	G	R	◊
GREEN BAY ROAD 5/8 ALL SIGNALS	3	G	Y	8	R	R	R	7	G	8	◊
KENILHORTH AVENUE E/B ALL SIGNALS	7	9	8	3	3	Y	я	Ģ	3	ĵ	◊
KENILHORTH AVENUE W/9 FAR RIGHT AND BEAR BISHT SIGNALS	3	я	9	3	S	Y	P	å	2	G	¢
KENTLHORTH AVENUE #/8 FAR LEFT AND END WAST ARM SIGNALS		R	R	ą	3	Y	3	G	я	¢	0
PARK DELYE E/3 ALL SISMALS	R	R	F	3	3	Y	*	ŝ	R	5	0
PAFK BRIVE #78 PAR PEGIT AND NEAR RESHT SEGNALS	R	R	A	a	3	Υ	Ħ	G	я	5	\(\)
PARK DRIVE #73 FAR CERT DAID MED LEFT STENALS		R	R	Я	S	¥	ı f	ű	8	G	٥
PEDESTRIAN SIGNALS CROSSING MEMILINGSTH AVE, ON MEST SIGE OF GREEN DAY ROAD	برج	FH	*	4	н	н	u	: :	,,	#	\$
PECESTRIAN GIONALS CROSSING PARK OPIVE ON MEST SIDE OF GREEN BAY ROAD	Ēн	FН	H	si	id	:1	74	н	ķŧ	8	\(\)
PEDESTRIAN SIGNALS CROSSING GREEN BAY ROAD ON NORTH SIDE OF KENELHORTH AVE.	н	, m²	н	111	PH.	14	ļš	s _H	ŝ÷	ч	0
PEDESTRIAN SIGNALS CROSSING GREEN BAY ROAD ON SOUTH SIDS OF KENILWORTH AVE.	4	4	н	4	FЧ	:4	÷4	Ç14	Ļŧ	31	◊
PEDESTRIAN SIGNALS CROSSING GREEN BAY BYRING MARK BOS SIGNATION NO GACK	н	Н	И	4	FH	i+	14	FH	н	K	◊
				Laca							

- EMERGENCY VEHICLE SECUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SECUENCE OF CAFRATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.
 - P = (LLUMINATED PERSON = WALK
 - FH = [LIBMINATED FLASHING HAND = FLASHING DEN'T WALK
 - H = SELUMINATED STEED HAND = DON'T WALK

	5	A	М	S	c	H	W	A	R	T	
	Ε	Ν	G	1	Ν	Ε	Ε	R	ŧ	Ν	
///	310) T.	HICCH	15,51	E. 100), KG	}##N	ESTA	KŽ,	11 50)

DESIGNED	-	JAM	REVISED -
DRAWN	-	JAM	REVISED -
CHECKED	-	L MAN	REVISED -
DATE	~	12-13-13	REVISED -

SCHEDULI	OF QUAN	TITIES	, CABLE P	LAN, PHAS	E DESIGNATION	
DIAGRAM,	AND EME	RGENC	Y VEHICL	e preempt	TON SEQUENCE,	
GREEN	BAY ROAD	AT K	ENILWORT	TH AVENUE	/PARK DRIVE	
SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	

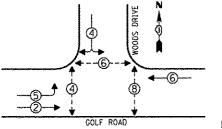
A. TE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
VAR	2013-053TS	cook	88	34					
CONTRACT NO. 60X28									
	ILLINOIS FED. AID PROJECT								







CONTROLLER SEQUENCE



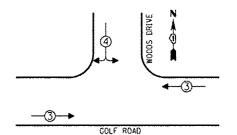
LEGEND

- - SINGLE ENTRY PHASE - DUAL ENTRY PHASE OVERLAP

PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

NOTE:

TRACER CABLE -PUSHBUTTON "C" ®-2 (**13039**-0 -3----**63939 GOLF ROAD EED** (E) \(\int \) 0 **¥** 0 **4**

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

CABLE PLAN

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	=	ļ				

IR. ELEC	TOTAL				
TYPE	NO. OF LAMPS)	WAT		% OPERATIONS	WATTAGE
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	4		12	0.10	4.80
PEO. SIGNAL	6		25	1.00	150.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINATRE		250		0.50	
VIDEO SYSTEM		150		1,00	
FLASHER				0.50	
ENERGY COSTS TO):			TOTAL =	439.80

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE: ILLINGIS 60077

ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: 1847) 816-5239
COMPANY: Comed

TERRI BLECK ComEd

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN. UNLI DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON 2

SCHEDULE OF QUANTITIES

QUAN. UNIT

TTEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH EACH EACH EACH EACH

JAM REVISED

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE. GOLF ROAD AT WOODS DRIVE SHEETS STA.

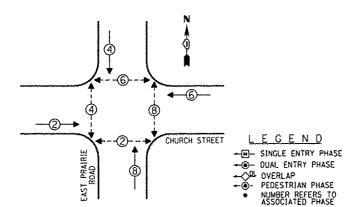
TOTAL SHEET SHEETS NO. SECTION COUNTY VAR 2013-05375 COOK 88 35 CONTRACT NO. 60X28

SAM SCHWARTZ ENGINEERING 3100 W. HIGGEINS, STE. 100, HOFFWAN ESTATES, IL 60169

DRAWN REVISED JÁM CHECKED - LMM REVISED DATE REVISED

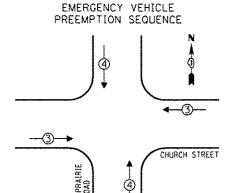
DESIGNED -





PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE

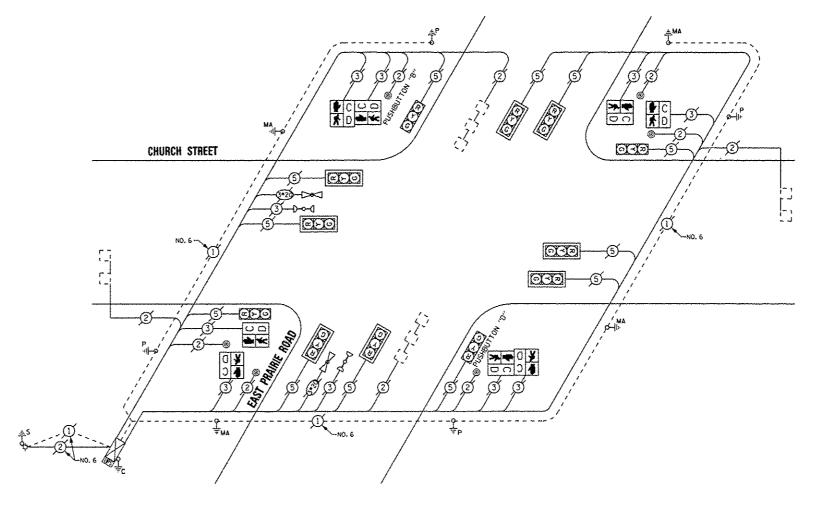


EMERGENCY VEHICLE PREEMP		}
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	=	↓ ↑

TR Ele	TOTAL				
		TAW	TAGE		WATTAGE
TYPE	NO. OF LAM	IPSX INCAND	LE0	% OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW			12	0.10	
PED. SIGNAL	. 8	1	25	1.00	200,00
CONTROLLER	1		100	1.00	100.00
ILLUM: SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO	1:			TOTAL =	522.00

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE, ILLINOIS 60077

TERRI BLECK ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COMEd



PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

QUAN. UNII CESCRIPTION

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

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

CABLE PLAN

SCHEDULE OF QUANTITIES

QUAN. UNIT

ITEM

EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE. BRACKET MOUNTED WITH COUNTDOWN TIMER
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH EACH EACH EACH EACH



SAM SCHWARTZ ENGINEERING JIOO W, HIGGINS, STE. 100, HOFFMAN ESTATES, IL 60169

٦	DESIGNED	~	MAL	REVISED -
	DRAWN	y•	JAM	REVISED -
	CHECKED	~	LMM	REVISED -
ľ	DATE	2	12-13-13	REVISED -

STATE OF ILLINOIS

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE. CHURCH STREET AT EAST PRAIRIE ROAD SHEETS STA.

TOTAL SHEET SHEETS NO. SECTION COUNTY COOK 88 36 CONTRACT NO. 60X28 2013-053TS

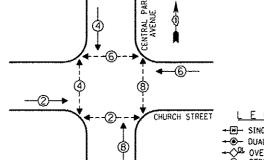
THE TRAFFIC SIGNAL CONTROL

EQUIPMENT FOR THIS PROJECT

SHALL BE "EAGLE".

DEPARTMENT OF TRANSPORTATION





LEGEND

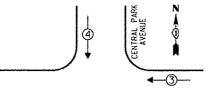
+- SINGLE ENTRY PHASE +®- DUAL ENTRY PHASE OVERLAP

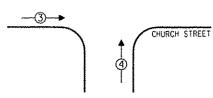
PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE





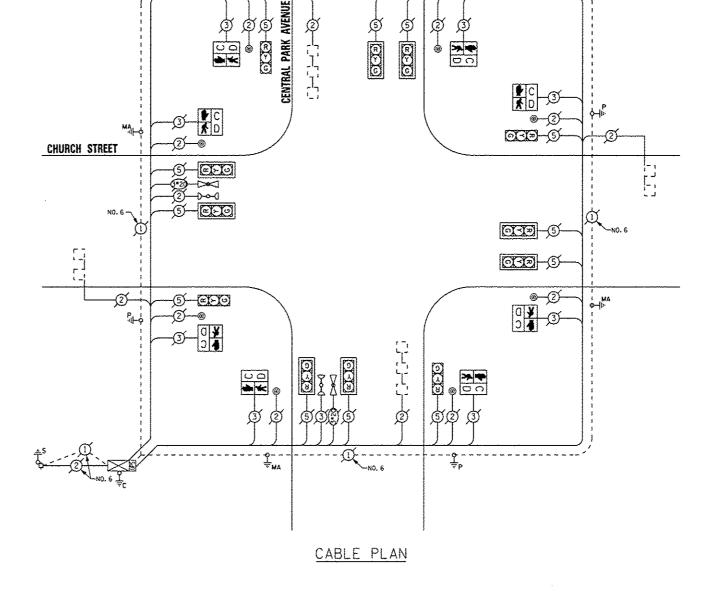
EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	=	↓ ↑		

1.0.0.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENT				its	TOTAL
		WAY	FAGE		WATTACE
TYPE	NO. OF LAMPS	INCAND	(ED)	% OPERATIONS	
SIGNAL (RED)	12		17	0.50	102,00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW			12	0.10	
PED SIGNAL	8		25	1.00	200,00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			. 25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO);			TOTAL =	522.00

VILLAGE OF SKOKIE 5127 DAKTON STREET SKOKIE: ILLINOIS 60077

ENERGY SUPPLY - CONTACT: ____ PHONE: ____ COMPANY: ____

TERRI BLECK (847) 816-5239



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUAN. UNII DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD. 1-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

ITEM QUAN. UNIT

EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN PUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

EACH EACH EACH EACH



SAM SCHWARTZ ENGINEERING 3100 M. HICCINS, STE. 100, HOFFWAN ESTATES, IL 60169

DESIGNED	_	JAM	REVISED	
DRAWN	-	JAM	REVISED	-
CHECKED	-	LMM	REVISED	-
DATE	-	12-13-13	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE. CHURCH STREET AT CENTRAL PARK AVENUE SHEETS STA.

	F.A. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.			
***************************************	VAR 2013-053TS		COOK	88	38			
•	CONTRACT NO. 60X28							
ļ	ILLINOIS FED. AID PROJECT							

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT

SHALL BE "ECONOLITE".

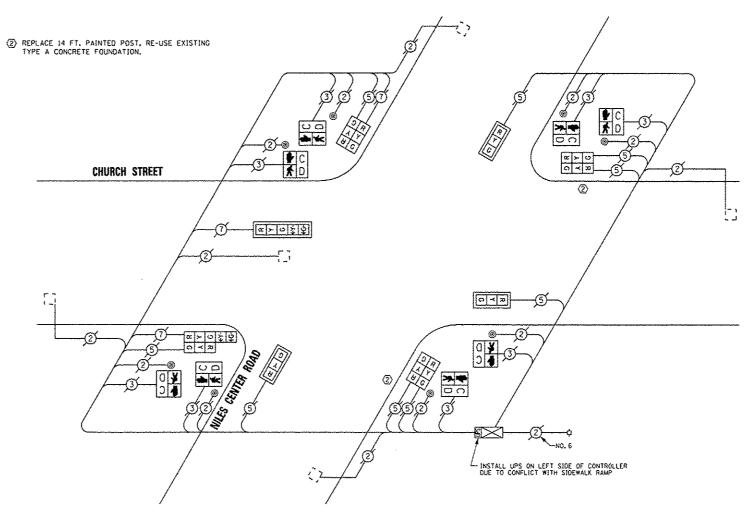
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CONTROLLER SEQUENCE

LEGEND - - SINGLE ENTRY PHASE

--- DUAL ENTRY PHASE OVERLAP
PEDESTRIAN PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPSXINCAND LED X% OPERATIONS SIGNAL (RED) ARROW PED SIGNAL CONTROLLER
ILLUM. SIGN
LUMINAIRE VIDEO SYSTEM FLASHER TOTAL = 526.80 ENERGY COSTS TO:

VILLAGE OF SKOKIE S127 OAKTON STREET SKOKIE: ILLINGIS 60077

ENERGY SUPPLY ~ CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COMEd

TERRI BLECK

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

ritioni	Tad a be	c commact our mice,
QUAN.	UNII	DESCRIPTION
2	EACH	TRAFFIC SIGNAL POST
3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
1	EACH	SIGNAL HEAD. 1-FACE. 5-SECTION
3	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
8	EACH	PEDESTRIAN SIGNAL HEAD. 1-FACE
4	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

2011		LE OF COMMITTEE
QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
Ì	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
ž.	EACH	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, LED. 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
ł	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
ŧ	EACH	UNINTERRUPTIBLE POWER SUPPLY. SPECIAL



SAM SCHWARTZ ENGINEERING 3100 M. HICGINS, STE. 100, HOFFMAN ESTATES, IL GOIGS

DESIGNED	^	JAM	REVISED	-
DRAWN	-	JAM	REVISED	
CHECKED	+	L MM	REVISED	~
DATE	-	12-13-13	REVISED	_

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	AND EN	ERGENCY	VEHICLE		ESIGNATION SEQUENCE, AD
SCALE: NONE	SHEET	OF	SHEETS S	TA.	TO STA.

Ė,	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AR	2013-053TS	COOK	88	40
		CONTRACT	NO. 6	0X28
	ILLINOIS FED. A	O PROJECT		

NOTE:

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 8 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 2 AND 4

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPSKINCAND LED X 7 OPERATIONS SIGNAL (RED) ARROW PED SIGNAL CONTROLLER ILLUM, SIGN VIDED SYSTEM FLASHER TOTAL = 615.20 ENERGY COSTS TO:

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE, ILLINDIS 60077

- CONTACT: — PHONE: — COMPANY: ENERGY SUPPLY

(847) 816-5239 SAM SCHWARTZ

TERRI BLECK

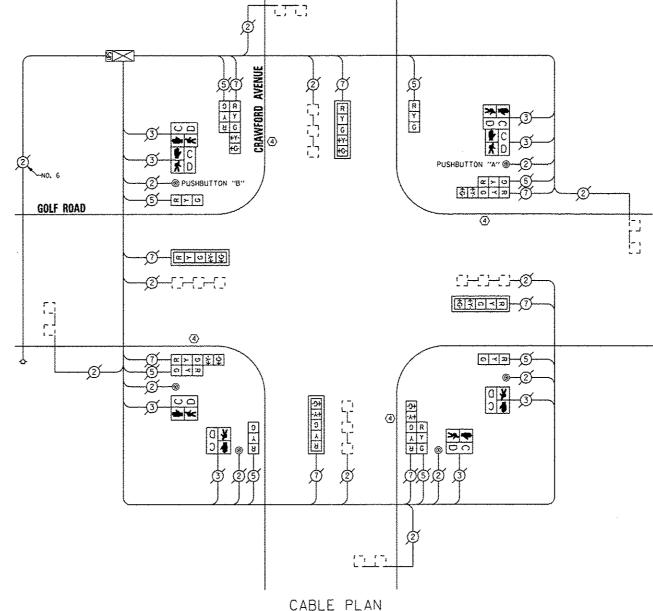
DESIGNED - JAM REVISED REVISED CHECKED - LMM REVISED DATE 12-13-13 REVISED

STATE OF ILLINOIS

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, **GOLF ROAD AT CRAWFORD AVENUE** SHEETS STA. SHEET OF

SECTION COUNTY YAR 2013-053TS COOK 88 41 CONTRACT NO. 60X28 ILLINOIS FED. AID PROJECT

(4) REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNIT DESCRIPTION

EACH

TRAFFIC SIGNAL POST SIGNAL HEAD, 1-FACE, 3-SECTION SIGNAL HEAD, 1-FACE, 5-SECTION EACH

EACH SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION

PEDESTRIAN SIGNAL HEAD, 1-FACE

EACH PEDESTRIAN SIGNAL HEAD. 2-FACE TRAFFIC SIGNAL BACKPLATE

EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN. UNIT ITEM

EACH

EACH

EACH EACH

TIEM

TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.

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

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

SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED

PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

TRAFFIC SIGNAL BACKET ACTUAL TO INTERED.

EACH EACH

EACH EACH

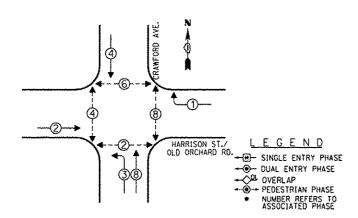
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTIBLE POWER SUPPLY. SPECIAL EACH

PEDESTRIAN PUSH-BUTTON, NON-LATCHING

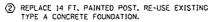
TS 4915

ENGINEERING 3100 M. HICCINS, STE, 100, HOFFMAN ESTATES, IL 60169

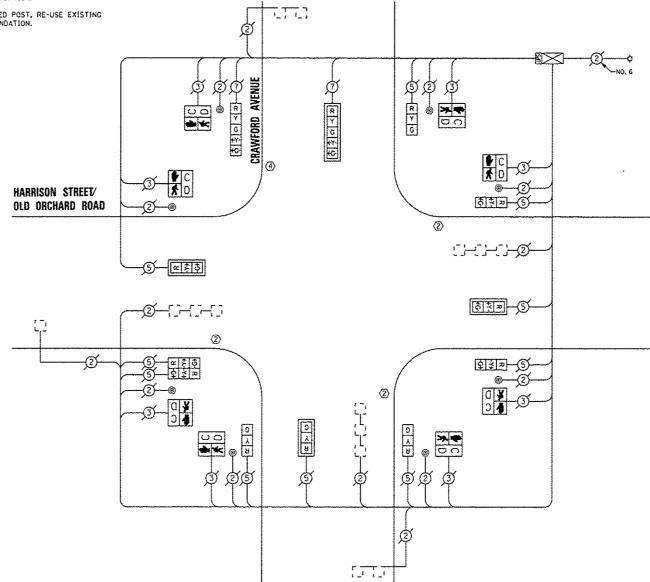
DEPARTMENT OF TRANSPORTATION



PHASE DESIGNATION DIAGRAM



(REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPSXINCAND LED XX OPERATIONS SIGNAL (RED) ARROW PED, SIGNAL CONTROLLER ILLUM. SIGN 25 VIDEO SYSTEM 1,00 FLASHER 0.50 526.80 ENERGY COSTS TO:

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE. ILLINOIS 60077

ENERGY SUPPLY - CONTACT: | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 | 15.00.1 |

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN.	UNIT	DESCRIPTION
4	EACH	TRAFFIC SIGNA
8	EACH	SIGNAL HEAD,

EACH TRAFFIC SIGNAL POST EACH SIGNAL HEAD, 1-FACE, 3-SECTION EACH SIGNAL HEAD, 1-FACE, 3-SECTION EACH SIGNAL HEAD, 1-FACE, 5-SECTION EACH PEDESTRIAN SIGNAL HEAD, 1-FACE

TRAFFIC SIGNAL BACKPLATE PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN. UNIT ITEM LIEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.

TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.

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, BRACKET MOUNTED

SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED

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

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

PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM

PEDESTRIAN PUSH-BUTTON

MODIFY EXISTING CONTROL HER CARINET EACH EACH

EACH EACH EACH EACH EACH

EACH

EACH EACH EACH

MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL



SAM SCHWARTZ ENGINEERING 3100 W. HICCINS, SIE. 100, HOFFMAN ESTATES, IL 60169

DESIGNED	-	JAM	REVISED	-
DRAWN	-	JAM	REVISED	*
CHECKED	-	FMM	REVISED	-
DATE	-	12-13-13	REVISED	*

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE. HARRISON STREET /OLD ORCHARD ROAD AT CRAWFORD AVENUE SCALE: NONE SHEET SHEETS STA.

λ. ξ.	SECTION	COUNTY	TOTAL	SHEET NO,		
AR	2013-053TS	COOK	88	42		
CONTRACT NO. 60X28						
THE INDISTRED AID PROJECT						

(2) REPLACE 14 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION. CENTRAL PARK AVENUE Ÿ 2 **GOLF ROAD** <u>-⊕_____</u> নিবনী-জ ¥ € X Y Y ② 99 CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

1.0.0.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPSKINCAND LED X% OPERATIONS SIGNAL (RED) ARROW
PED. SIGNAL
CONTROLLER
ILLUM. SIGN
LUMINAIRE VIDEO SYSTEM FLASHER TOTAL = 422.00 ENERGY COSTS TO:

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE: ILLINOIS 60077

ENERGY SUPPLY ~ CONTACT: ___ PHONE: ___ COMPANY:

TERRI BLECK (847) 816-5239

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNII DESCRIPTION

EACH TRAFFIC SIGNAL POST EACH SIGNAL HEAD, 1-FACE, 3-SECTION

EACH SIGNAL HEAD, 2-FACE, 3-SECTION EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH TRAFFIC SIGNAL BACKPLATE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED EACH EACH EACH

PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM

EACH PERESTRIAN PHISH-RUTTON

EACH

MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE. 100, HOFFWAN ESTATES, IL GOIGO

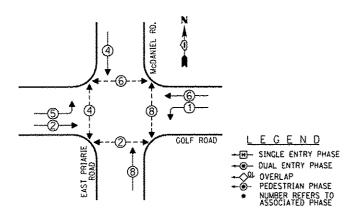
DESIGNED	-	JAM	REVISED	*
DRAWN	-	JAM	REVISED	-
CHECKED	-	LMM	REVISED	-
 DATE	-	12-13-13	REVISED	*

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

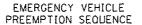
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, **GOLF ROAD AT CENTRAL PARK AVENUE**

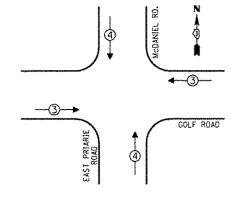
SHEETS STA.

F.A. RTE.	SECTION	COUNTY	SHEETS	SHEE NO.
VAR	2013-05318	COOK	88	43
		CONTRACT	NO. 6	0X28
	WILLIAMOTE EST 11	O DOAKAT		



PHASE DESIGNATION DIAGRAM





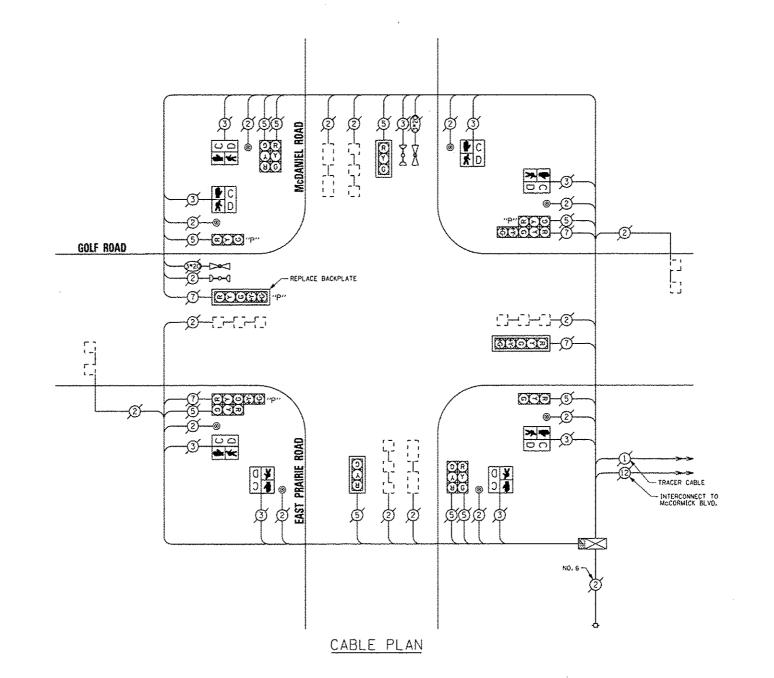
EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	-	↓ ↑	

TR ELE		TOTAL			
	<u> </u>	WAT	FACE		WATTAGE
TYPE	NO. OF LAMP	SXINCAND	LED)	% OPERATIONS	
SIGNAL (RED)	14		17	0.50	119.00
(YELLOW)	14		25	0.25	87.50
(GREEN)	14		15	0.25	52.50
ARROW	8		12	0.10	9.60
PED. SIGNAL	. 8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1,00	
FLASHER	<u> </u>			0.50	
ENERGY COSTS TO);			TOTAL =	568.60

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE: ILLINOIS 60077

TERRI BLECK





SCHEDULE OF QUANTITIES

EACH EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED. 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALLMINUM

PEDESTRIAN PUSH-BUTTON
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH TRAFFIC SIGNAL BACKPLATE EACH PEDESTRIAN PUSHBUTTON

QUAN, UNIT DESCRIPTION

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE,

TOTAL SHEE SHEETS NO. SECTION COUNTY COOK 88 44 CONTRACT NO. 60X28 2013-053TS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT

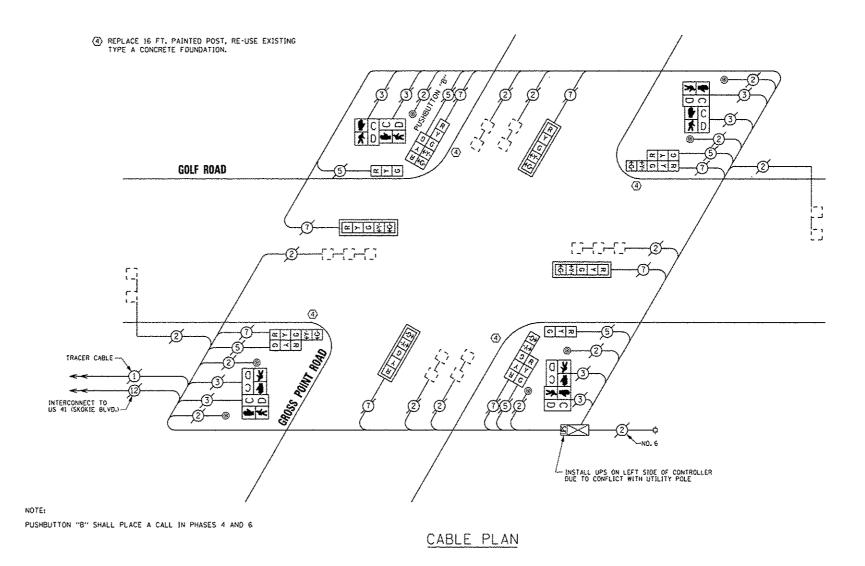
SHALL BE "ECONOLITE".

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E	N	G	ł	Ν	E	E	R	1	N		G
3100) F, 1	HCCH	SS	E. 100	, HO	[UAN	ESTA	HES,	Il	80	169

DESIGNED - JAM REVISED DRAWN REVISED CHECKED -LMM REVISED DATE - 12-13-13 REVISED

VAR GOLF ROAD AT EAST PRAIRIE ROAD/McDANIEL ROAD
SCALE: NONE SHEET OF SHEETS STA. TO STA.

ENERGY SUPPLY - CONTACT: __ PHONE: __ COMPANY; (847) 816-5239 SAM SCHWART:



REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPSKINGAND LED X% OPERATIONS SIGNAL (RED) ARROW
PEO. SIGNAL
CONTROLLER
ILLUM. SIGN
LUMINAIRE VIDEO SYSTEM FLASHER TOTAL = 578.20 ENERGY COSTS TO:

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE: ILLINGIS 60077

ENERGY SUPPLY - CONTACT: -

TERRI BLECK (847) 816-5239

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNLI DESCRIPTION

EACH TRAFFIC SIGNAL POST
EACH SIGNAL HEAD, 1-FACE, 3-SECTION
EACH SIGNAL HEAD, 1-FACE, 5-SECTION
EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
EACH PEDESTRIAN SIGNAL HEAD, 2-FACE

TRAFFIC SIGNAL BACKPLATE PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN, UNIT ITEM

EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
PEDESTRIAN PLISH-RUITTON. MODI-TATCHING EACH EACH EACH

EACH

EACH EACH

PEDESTRIAN PUSH-BUTTON, NON-LATCHING

SAM SCHWARTZ ENGINEERING 3100 W. HIGGINS, STE. 100, HOFFWAN ESTATES, IL 60169

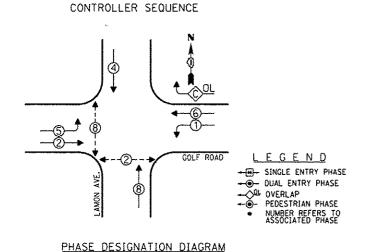
DESIGNED	-	JAM	REVISED	-
DRAWN	-	JAM	REVISED	-
CHECKED	-	LMM	REVISED	*
DATE	-	12-13-13	REVISED	**
	DRAWN CHECKED	CHECKED -	DRAWN - JAM CHECKED - LMM	DRAWN - JAM REVISED CHECKED - LMM REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

				LAN, PHASE D	
DIAGRA				E PREEMPTION POINT ROAD	
SCALE: NONE	SHEET	OF	SHEETS		TO STA.

É.	SECT	10N	COUNTY	TOTAL SHEETS	SHEET NO.				
AR	2013-0)53TS	COOK	88	45				
CONTRACT NO. 60X28									
	THE INDISTRED AND PROJECT								



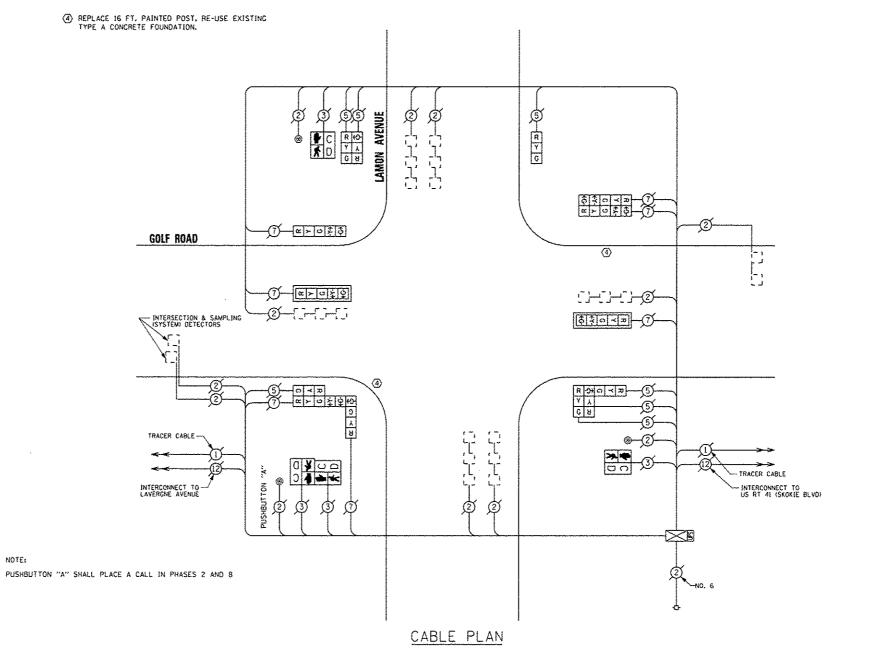


OVERLAP PERMISSIVE PROTECTED

C = 6 + 1

PHASE PHASE

LETTER



REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

| TRAFFIC SIGNAL INSTALLATION | ELECTRICAL SERVICE REQUIREMENTS | TOTAL | WATTAGE | TOTAL | WATTAGE | TOTAL | WATTAGE | WATTAG

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE: ILLINOIS 60077

ENERGY SUPPLY - CONTACT: ____ PHONE: ___ COMPANY:

TERRI 8LECK (847) 816~5239 ComEd

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN.	UNLI	DESCRIPTION
2	EACH	TRAFFIC SIGNAL POST
1	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
3	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, LED. 3-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, LED. 3-FACE, 1-3 SECTION, 1-4 SECTION, 1-5 SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
1	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
2	EACH	TRAFFIC SIGNAL BACKPLATE
3	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	LTEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED. 2-FACE. 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED. 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED. 3-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 1-4 SECTION, 1-5 SECTION BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
3	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING



SAM SCHWARTZ ENGINEERING 3100 ILHGGIKS, STE. 100, HOFFWAN ESTAFES, TL GOLFA

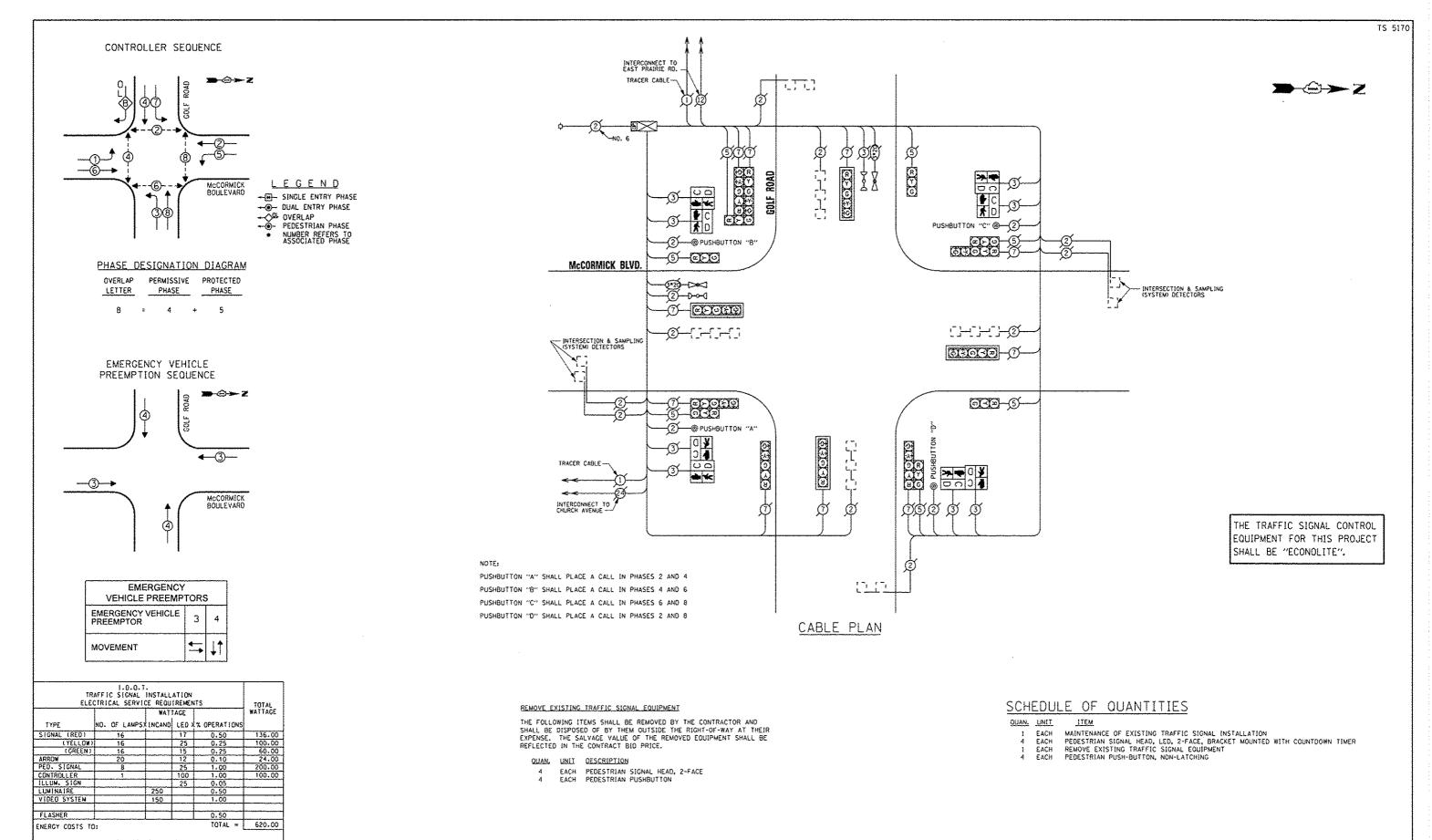
DESIGNED	-	JAM	REVISED	-
DRAWN	-	JAM	REVISED	-
CHECKED	-	LMM	REVISED	~
DATE	-	12-13-13	REVISED	+

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, GOLF ROAD AT LAMON AVENUE

NONE SHEET OF SHEETS STA. TO STA.

RTÉ.	SECTION	COUNTY	SHEETS	NO.
VAR	2013-053TS	COOK	88	46
		CONTRACT	NO. 6	QX28
	THE INDICIOUS A	D 990 KTY		



VILLAGE OF SKOKIE 5127 DAKTON STREET SKOKIE: ILLINDIS 60017

PHONE: COMPANY:

ENERGY SUPPLY - CONTACT: [EHR] DLLUM [847] 816-5239 ComEd

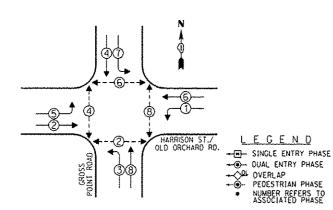
> SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE, 100, HOFFWAH ESTATES, IL 60169

 DESIGNED	~	MAL	REVISED	~
DRAWN	~	JAM	REVISED	^
CHECKED	-	LMM	REVISED	*
DATE	-	12-13-13	REVISED	м

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Andrew Street, Square, Street,		AND EN	ERGENC		HASE DESIGNATION MPTION SEQUENCE,	_
ł		UULF N L	IAU AI	INICOUNTATION DE	JULEVANU	
	SCALE: NONE	SHEET	. OF	SHEETS STA.	TO STA.	

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-053TS	COOK	88	47
		CONTRACT	NO. 6	0X28
	ILLINDIS FED. A	O PROJECT		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,



(D CONSTRUCTION NOTE:

THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE RESIDENT ENGINEER. THIS WORK AND ALL CONDUIT AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED". ALL
RESTORATION SPECIFIED IN THE RESTORATION OF WORK AREA GENERAL NOTE
SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM "ININTERRUPTABLE POWER SUPPLY, CROUND MOUNTED" AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

TOTAL = 541.20

(4) REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION. HARRISON STREET/OLD ORCHARD ROAD - (e) F (g) ैं ३०≺⊅ -(5)-**೧** ≺ ୭ − (사 이 수 의 ∪ ∩ • ***** CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

ELECTRICAL SERVICE REQUIREMENTS TOTAL WATTAGE NO. OF LAMPSXINCAND LED X% OPERATIONS SIGNAL (RED) LUMINAIRE VIDEO SYSTEM

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION

FLASHER ENERGY COSTS TO:

VILLAGE OF SKOKIE 5127 DAKTON STREET SKOKIE- ILLINDIS 60077

ENERGY SUPPLY - CONTACT: ...

TERRI BLECK (847) 816-5239

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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 SALYAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUAN. UNLI DESCRIPTION

EACH TRAFFIC SIGNAL POST EACH SIGNAL HEAD, 1-FACE, 3-SECTION

SIGNAL HEAD, I-FACE, 5-SECTION PEDESTRIAN SIGNAL HEAD, I-FACE TRAFFIC SIGNAL BACKPLATE PEDESTRIAN PUSHBUTTON EACH EACH EACH

SCHEDULE OF QUANTITIES

OUAN, UNIT ITEM

EACH EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED EACH EACH EACH EACH EACH

PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKFLATE, LOUVERED, ALUMINUM PEDESTRIAN PUSH-BUTTON

MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED EACH EACH EACH

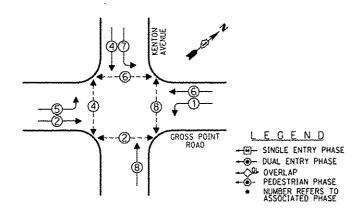
SAM SCHWARTZ ENGINEERING 3100 M. HISGINS, STE, 100, HOFFRAN ESTATES, IL 60169

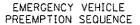
DESIGNED	-	JAM	REVISED	-/1 01-28-14
DRAWN	-	JÁM	REVISED	*
CHECKED	-	LMM	REVISEO	*
DATE	-	12-13-13	REVISED	P

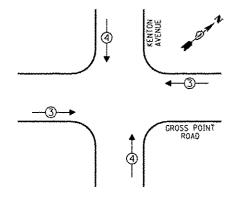
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE. HARRISON STREET /OLD ORCHARD ROAD AT GROSS POINT ROAD SCALE: NONE SHEET SHEETS STA.

COUNTY TOTAL SHEET NO.
COOK 88 48 SECTION VAR 2013-053TS CONTRACT NO. 60X28







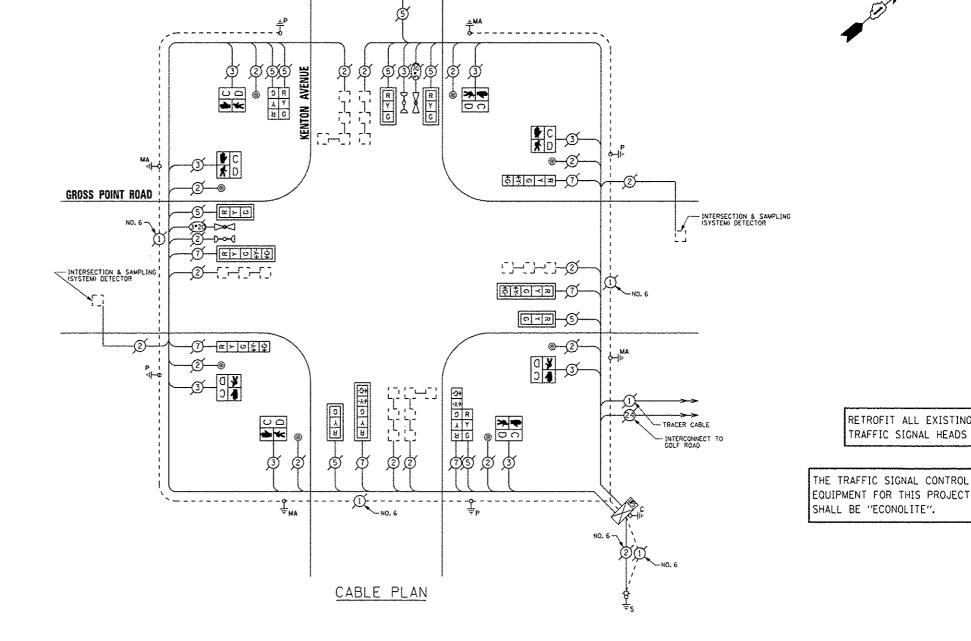
EMERGENCY VEHICLE PREEMP		3
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	=	↓ ↑

	The state of the s	/ICE REOU	TAGE		TOTAL WATTAGE
		#A!	AUL		HAITAUE
TYPE	NO. OF LAME	ONA JNC AND	LED X	% OPERATIONS	
SIGNAL (RED)	15		17	0.50	127.50
(YELLOW)	15		25	0.25	93.75
(GREEN)	15		15	0.25	56.25
ARROW	12		12	0.10	14.40
PEO. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM, SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER		+		0.50	·······
ENERGY COSTS TO				TOTAL =	591.90

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE. ILLINOIS 60077

ENERGY SUPPLY - CONTACT: __

TERRI BLECK (847) 816-5239



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN. UNII DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

UNIT M3T1 QUAN. EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN PUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

EACH EACH EACH

EACH EACH EACH EACH EACH



SAM SCHWARTZ ENGINEERING 3100 M. HICCHIS, STE. 100, HOFFWAN ESTATES, IL 60169

DESIGNED	-	MAL	REVISED	~
DRAWN	-	JAM	REVISED	^
CHECKED	-	LMM	REVISED	-
DATE	-	12-13-13	REVISED	~

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULI	OF QL	JANTITI	ES, CABLE I	PLAN, PH	ASE DESIGNATION
			NCY VEHICL ROAD AT	=	APTION SEQUENCE,
	はいいろう	TVII¥ I	NUMU MI	VEIA ! AIA	AVENUE
SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-05375	COOK	88	49
		CONTRACT	NO. 6	0X28

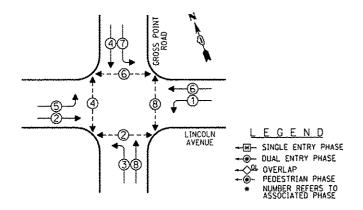
RETROFIT ALL EXISTING

TRAFFIC SIGNAL HEADS

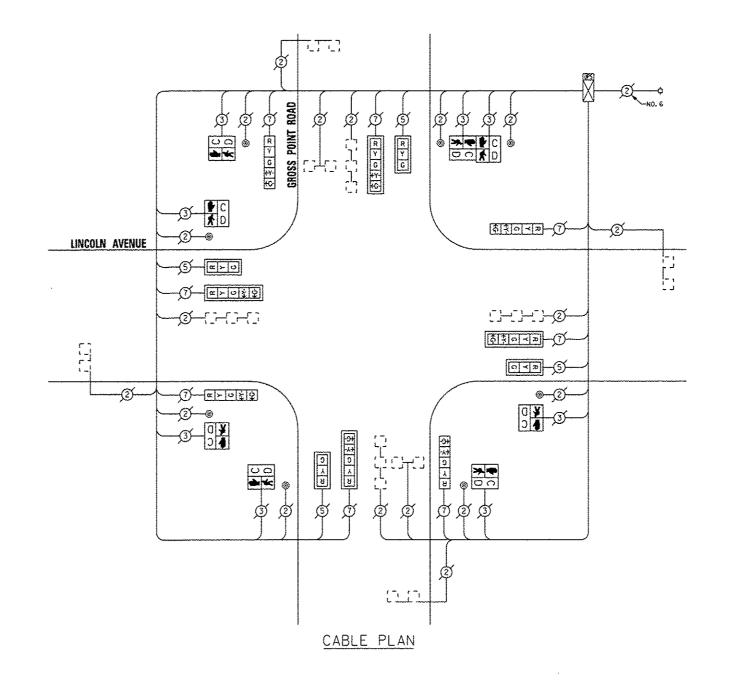
THE TRAFFIC SIGNAL CONTROL

SHALL BE "ECONOLITE".

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNII DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN, UNIT ITEM

EACH EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN PUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

EACH EACH EACH EACH EACH EACH EACH

NO. OF LAMPSX	INCAND	LED X	% OPERATIONS	
12		17	0.50	102.0
12		25	0.25	75.0
12		15	0.25	45.0
16		12	0.10	19,2
8		25	1.00	500.0
1		100	1.00	100.0
		25	0.05	
	250		0.50	
	150		1.00	
			0.50	
):			TOTAL =	541.2
VILLAGE (1011E - [
	12 12 12 16 8 1	12 12 12 16 8 1 250 150	12 17 12 25 12 15 16 12 8 25 1 100 25 25 1 150	12 25 0.25 12 15 0.25 16 16 12 0.10 8 25 1.00 1 100 1.00 25 0.05 250 0.50 150 1.00 1 0.050 1 0.50 1 0.50 1 0.71

ENERGY SUPPLY - CONTACT: -

WATTAGE

1.0.0.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TOTAL WATTAGE

SAM SCHWARTZ ENGINEERING 3100 M. HECCINS, STE. 100, HOFFWAN ESTATES, IL 60169

TERRI BLECK

18471 816-5239

	DESIGNED	-	JAM	REVISED -
į	DRAWN	+	JAM	REVISED -
-	CHECKED	~	LMM	REVISED -
	DATE	-	12-13-13	REVISED -
-				

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

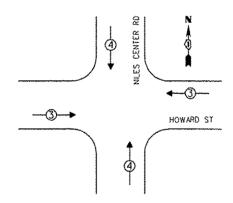
SCHEDULI	E OF	QUANTITIE	S, CABLE	PLAN, PH	ASE DESIGN	ATION
,					IPTION SEQ	UENCE,
	GROS	S POINT	ROAD AT	LINCOLN	AVENUE	
	1					

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-053TS	COOK	88	50
		CONTRACT	NO. 6	0X28
	ILLINOIS FED. AL	D PROJECT	,	

SCALE: NONE

EXISTING EMERGENCY VEHICLE

PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT		 		

	1.D.O AFFIC SIGN TRICAL SE	IAL INST			TOTAL
TYPE	NO. OF LAMPS		LED X	CPERATIONS	WATTAGE
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	f		100	1.00	100.00
ILLUM, SIGN			0	0	0
VIDEO VEH. SENSOR			0	0	. 0
FLASHER			0	0	0
ENERGY COSTS TO:				TOTAL =	541.20
	VILLAGE 5127 GA SKOKIE:	KTON ST	•		

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUANTITY UNIT DESCRIPTION

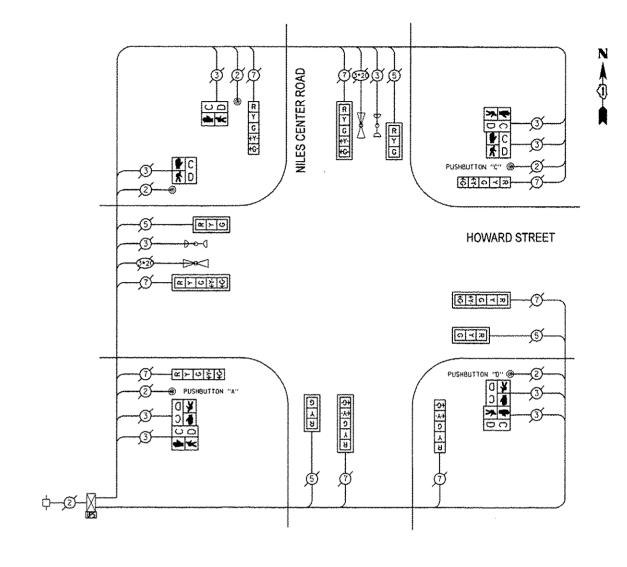
EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUANTITY UNIT

1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD. LED. 1-FACE. 5-SECTION. MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

PEDESTRIAN PUSH-BUTTON, NON LATCHING



CABLE PLAN

PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 2 & 4 PUSHBUTTON "C" SHALL PLACE A CALL TO PHASES 6 & 8 PUSHBUTTON "D" SHALL PLACE A CALL TO PHASES 2 & 8

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

ENERGY SUPPLY - CONTACT: TERRIBLECK
PHONE: (847) 816-5239
COMPANY: ComEd

2690 Warrewille Road, Solte 283, Bowners Grove, 11. 60515-1161 639.705.0110 veice, 639.339.2566 fs1 www.mpt-ll.com

DESIGNED - .INP REVISED DRAWN JNP REVISED CHECKED . TVN REVISED MILLENNIA PROFESSIONAL SERVICES DATE 12/9/2013 REVISED

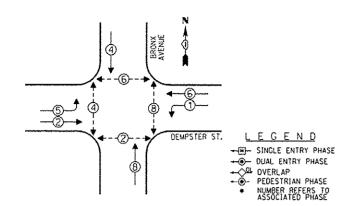
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE HOWARD STREET AT NILES CENTER ROAD SCALE: N/A SHEETS STA.

SECTION COOK 88 51 CONTRACT NO. 60X28 2013-05375

N





PHASE DESIGNATION DIAGRAM

A (CONSTRUCTION NOTE:

THE UPS SHALL BE INSTALLED NEXT TO THE EXISTING CONTROLLER CABINET USING HELICAL GROUND ANCHORS DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE RESIDENT ENGINEER. THIS WORK AND ALL CONDUIT AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED", ALL RESTORATION SPECIFIED IN THE RESTORATION OF WORK AREA GENERAL NOTE SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM "ININTERRUPTABLE POWER SUPPLY. GROUND MOUNTED" AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

(S)(S) BRONX AVENUE (S)—@>10 DEMPSTER STREET INTERSECTION & SAMPLING (ইইন্স্ ®--2-TRACER CABLE ---9 R 4 Y **≯**• □ C - TRACER CABLE INTERCONNECT TO ØØ **SS** CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

TOTAL WATTAGE

NO. OF LAMPS INCAND LED X TOPERATIONS SICHAL (RED)

I.O.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

FLASHER ENERGY COSTS TO:

TERRI BLECK ENERGY SUPPLY - CONTACT: -PHONE: -COMPANY: (847) 816-5239 Com€d

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE- ILLINDIS 60077

SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE, 100, HOFFMAN ESTATES, IL 60169

DESTONED	-	JAM	REVISED - 101-28-14
DRAWN	-	JAM	REVISEO -
CHECKED	-	LMM	RÉVISED -
DATE	-	12-13-13	REVISED -

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, DEMPSTER STREET AT BRONX AVENUE

SHEETS STA.

SECTION COOK RAV 88 52 CONTRACT NO. 60X28

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUAN. UNIT DESCRIPTION

EACH SIGNAL HEAD, 1-FACE, 3-SECTION EACH SIGNAL HEAD, 1-FACE, 5-SECTION EACH SIGNAL HEAD, 2-FACE, 3-SECTION EACH SIGNAL HEAD, LED, 2-FACE, 1-3 S

SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION

PEDESTRIAN SIGNAL HEAD, 1-FACE TRAFFIC SIGNAL BACKPLATE EACH EACH

EACH PEDESTRIAN PUSHBUTTON

EACH EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
PEDESTRIAN FUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT
UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED EACH EACH EACH EACH EACH

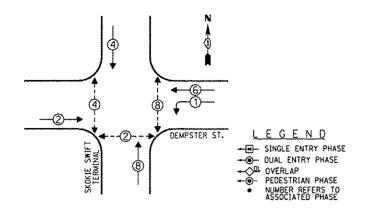
SCHEDULE OF QUANTITIES

EACH EACH EACH EACH

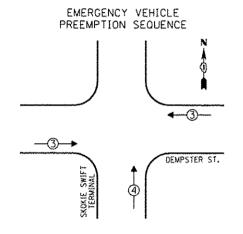
VIDEO SYSTEM

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

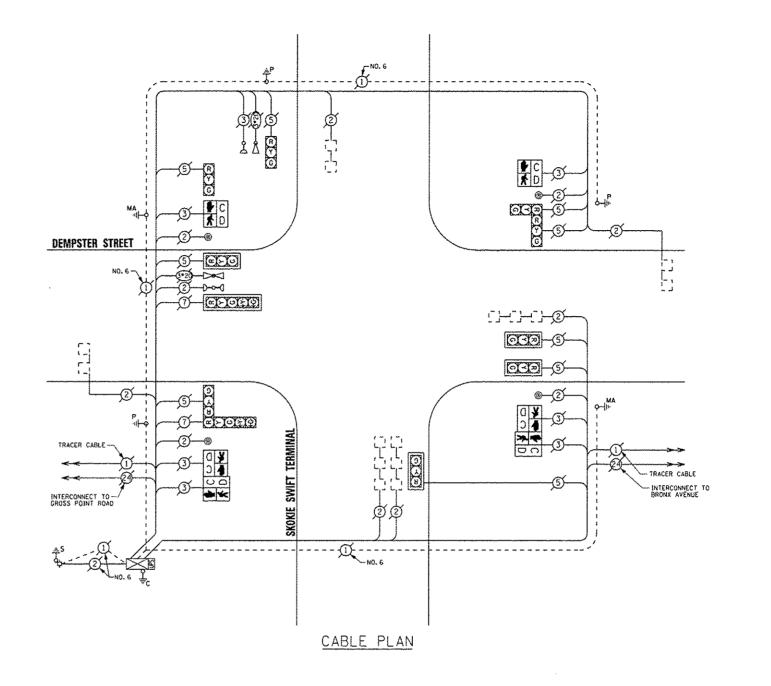


EMERGENCY VEHICLE PREEMP		;
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	=	↑

			INSTALL CE REOU		its	TOTAL
			WAT:	AGE		WATTAGE
TYPE	NO. OF	LAMPS)	INCAND	LEO X	% OPERATIONS	
SIGNAL (RED)	1	1		17	0.50	93.50
(YELLOW)	1	1		25	0.25	68.75
(GREEN)	1	1		15	0.25	41.25
ARROW		4		12	0.10	4.80
PED. SIGNAL		6		25	1.00	150.00
CONTROLLER		1		100	1,00	100.00
ILLUM. SIGN				25	0.05	
LUMINAIRE		***************************************	250	****	0.50	
VIDEO SYSTEM			150		1.00	
FLASHER					0.50	
ENERGY COSTS TO	1+				TOTAL =	458.30

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE. ILLINDIS 60077

TERRI BLECK ENERGY SUPPLY - CONTACT: TERR! BLECK PHONE: (847) 816-5239
COMPANY: COMEd



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNIT DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN, UNIT ITEM

PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTIBLE POWER SUPPLY, SPECIAL PEDESTRIAN PUSH-BUTTON, NON-LATCHING

EACH EACH EACH EACH EACH EACH



***************************************	DESIGNED	-	JAM	REVISED	-
-	DRAWN	-	JAM	REVISED	-
-	CHECKED	-	LMM	REVISED	-
	DATE	-	12-13-13	REVISED	*

STATE	0F	ILLINOIS	
DEPARTMENT (OF T	RANSPORTATION	

-	SCHEDULI	E OF QU	ANTITIES	, CABLE P	LAN, PH	IASE DESIGNATION
P-Berly Arrhendary						MPTION SEQUENCE, T TERMINAL
-	SCALE: NONE	SHEET	OF	SHEETS		TO STA.

	F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
İ	VAR	2013-053TS	COOK	88	53
			CONTRACT	NO. 6	0X28
į		ILLINOIS FEO. A	D PROJECT		

NOTE:

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4

PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

GROSS POINT ROAD (A) (A) (E) (A) IL58 (DEMPSTER STREET) -(C) \$ (3) INTERSECTION & SAMPLING (SYSTEM) DETECTORS -(7)—<u>ল্লেনভাইাই</u> - INTERSECTION & SAMPLING (SYSTEM) DETECTORS **টিয়ি**ন্ন - (7) **野宝可工型—①** ₹ 9 ¢ 7 × 9 ¢ - TRACER CABLE - INTERCONNECT TO SKOKIE SWIFT NO. 6 -CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

TS 12010

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNIT DESCRIPTION	
ESOLUTION NUMBER OF THE PROPERTY OF THE PROPER	
2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION	
8 EACH SIGNAL HEAD, 1-FACE, 5-SECTION	
2 EACH SIGNAL HEAD, 2-FACE, 5-SECTION	
2 EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 S	SECTION
4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE	
2 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE	
7 EACH TRAFFIC SIGNAL BACKPLATE	
9 EACH PEDESTRIAN PUSHBUTTON	

SCHEDULE OF QUANTITIES

		· · · · · · · · · · · · · · · · · · ·
QUAN,	UN!T	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	SIGNAL HEAD, LED. 1-FACE, 3-SECTION, MAST ARM MOUNTED
5	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
3	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME!
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME
7	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
3	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
9	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING



SIGNAL (RED)

ARROW
PED. SIGNAL
CONTROLLER
ILLUM. SIGN
LUMINAIRE

VIDEO SYSTEM FLASHER

ENERGY COSTS TO:

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE: ILLINOIS 60077

NO. OF LAMPSKINGAND LED X% OPERATIONS

SAM SCHWARTZ
ENGINEERING
3100 1.HIGGINS, STE. 100, HOFFWAH ESTATES, TL 60169

TERRI BLECK

1847) 816-5239

669.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

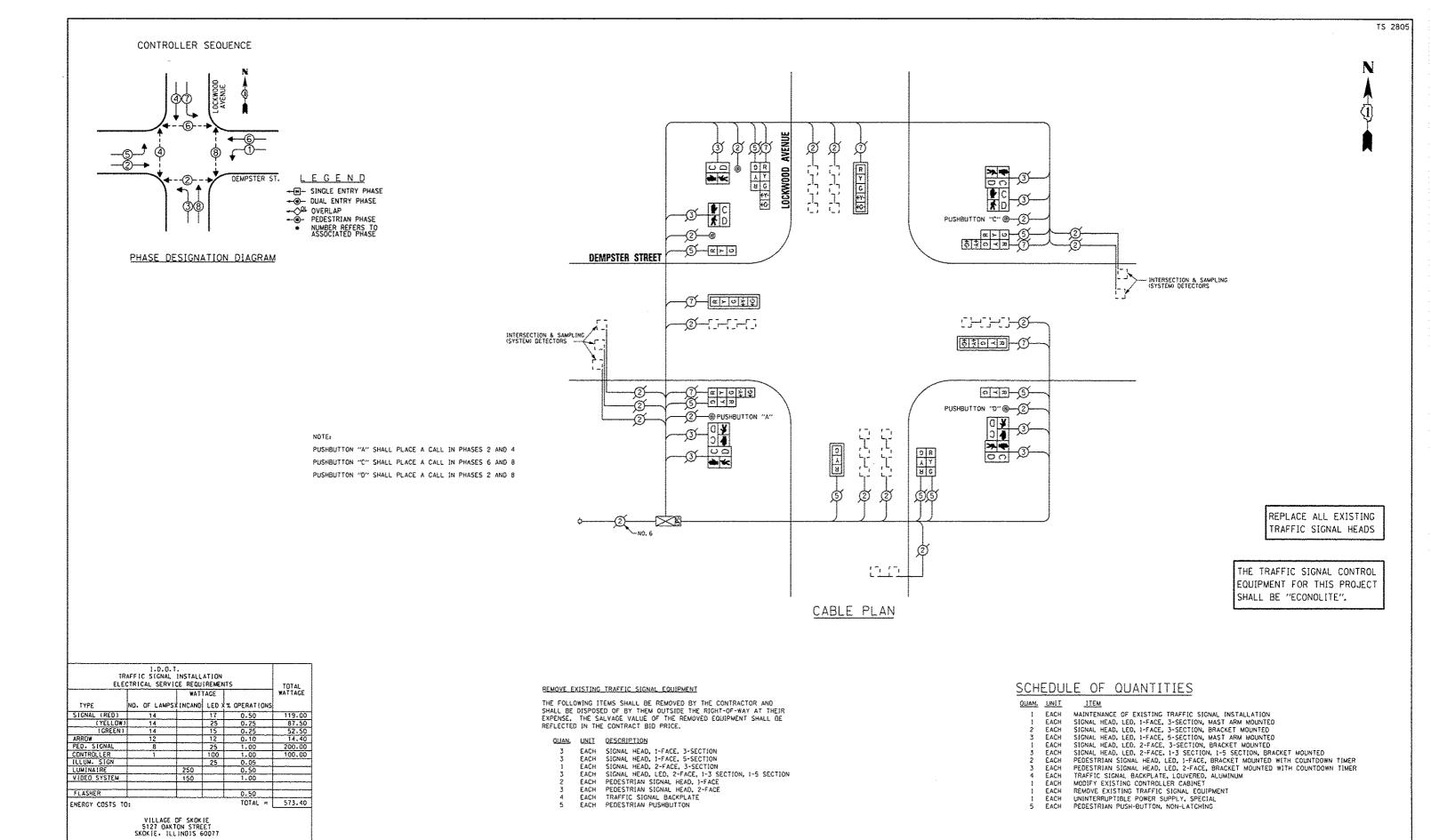
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL58 (DEMPSTER STREET) AT GROSS POINT ROAD

NONE SHEET OF SHEETS STA. TO STA.

A. SECTION COUNTY TOTAL SHEETS NO.

VAR 2013-053TS COOK 88 54

CONTRACT NO. 60X28



ENERGY SUPPLY - CONTACT:
PHONE:
COMPANY:

SAMSCH
ENGINE

SAM SCHWARTZ
ENGINEERING
3100 T.HIGGING, STE, 100, HOD TANNI CSTATES, 11 60169

 DESIGNED - JAM
 REVISED

 DRAWN - JAM
 REVISED

 CHECKED - LMM
 REVISED

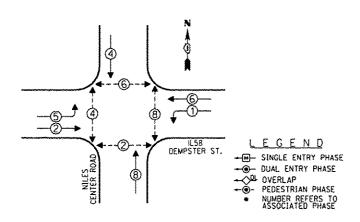
 DATE - 12-13-13
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

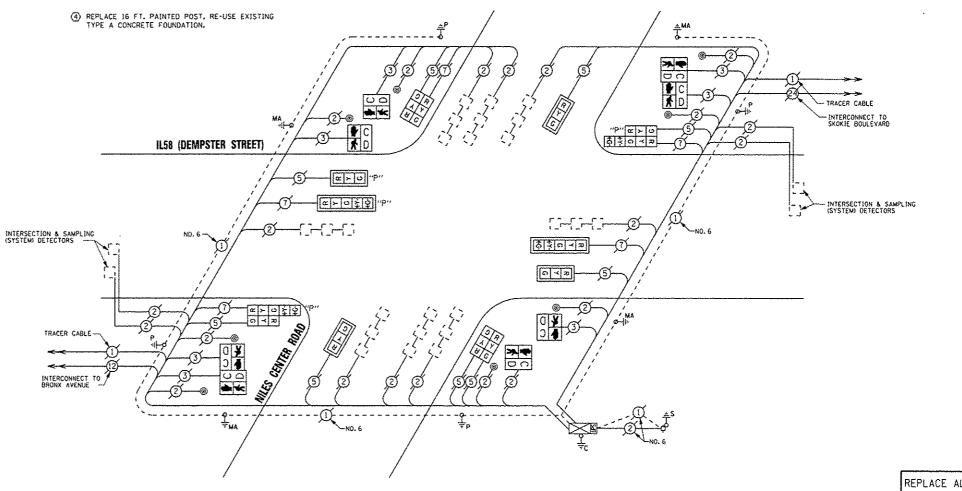
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, DEMPSTER STREET AT LOCKWOOD AVENUE

NONE | SHEET OF SHEETS | STA. TO STA.





CONTROLLER SEQUENCE



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

| 1.0.0.T. | TRAFFIC SIGNAL INSTALLATION | ELECTRICAL SERVICE REQUIREMENTS | TOTAL WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WATTAGE | WAT

VILLAGE OF SKOKIE 5127 DAKTON STREET SKOKIE, ILLINDIS 60077

ENERGY SUPPLY - CONTACT: ____ PHONE: ___ COMPANY: ___

1847) 816-5239 ConEd

SAM SCHWARTZ

TERRE BLECK

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

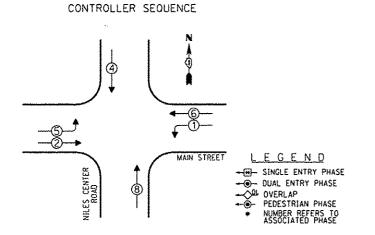
QUAN.	UNII	DESCRIPTION
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
6	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
1	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
6	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

<u> </u>		22 0. 40/11/120
UAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
J	EACH	SIGNAL HEAD, LED, 1-FACE, S-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD. LED. 1-FACE, 3-SECTION. MAST ARM MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD. LED, 1-FACE, S-SECTION, MAST ARM MOUNTED
1	EACH	COMBINATION SIGNAL HEAD, LED. 2-FACE. 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED
1	EACH	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
ĺ	EACH	PEDESTRIAN SIGNAL HEAD. LED. 2-FACE. BRACKET MOUNTED WITH COUNTDOWN TIMER
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
?	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SAM SCHWARTZ
ENGINEERING
3100 V. HICCHS, SIE. 100, HEEFWAN ESTATES, IL 60169



(2) REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. \$13 6 4 3 8 7 0 8 7 0 MAIN STREET - E > 0 Ø--(1-(1-(1) \$ \$ 0 × 2 o ≺ ⊅

CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

* Sheet 57 Deleted TS 14815

	1.0.0.T AFFIC SIGNAL CTRICAL SERVI	INSTALL			TOTAL
TYPE	NO. OF LAMPS:	1	TAGE LED	% OPERATIONS	WATTAGE
SIGNAL (RED)	14		17	0.50	119.00
(YELLOW)	14		25	0.25	87.50
(GREEN)	14		15	0.25	52,50
ARROW	8		12	0.10	9.60
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM, SIGN		·	25	0.05	
LUMINATRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER		<u> </u>		0.50	
ENERGY COSTS TO) :			TOTAL =	368.60

VILLAGE OF SKOKIE 5127 DAKTON STREET SKOKIE, ILLINDIS 60077

ENERGY SUPPLY - CONTACT: ---

TERRI BLECK (847) 816-5239

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNLI DESCRIPTION

EACH TRAFFIC SIGNAL POST
EACH SIGNAL HEAD, 1-FACE, 3-SECTION
EACH SIGNAL HEAD, 1-FACE, 5-SECTION
EACH SIGNAL HEAD, 2-FACE, 3-SECTION
EACH SIGNAL HEAD, 2-FACE, 3-SECTION
EACH TRAFFIC SIGNAL BACKPLATE

SCHEDULE OF QUANTITIES

QUAN. UNIT ITEM

EACH EACH

EACH EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, MAST ARM MOUNTED
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL EACH

EACH

REVISED

DESIGNED -

DRAWN

DATE

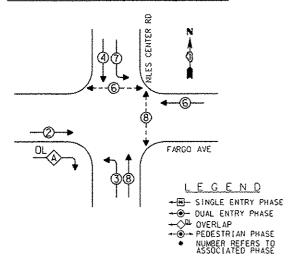
JAM REVISED REVISEO STATE OF ILLINOIS JAM CHECKED - LMM REVISED **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, MAIN STREET AT NILES CENTER ROAD

SHEETS STA.

TOTAL SHEET SHEETS NO. SECTION COUNTY RIE. COOX 88 58 2013-053TS VAR CONTRACT NO. 60X28 ILLINOIS FED. ATO PROJECT

SAM SCHWARTZ ENGINEERING 3100 W. HIGGINS, STE. 100, HOFFMAN ESTATES, IL 60169



RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

EXISTING PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISS PHASE	341	PROTECTED PHASE
	^		-

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

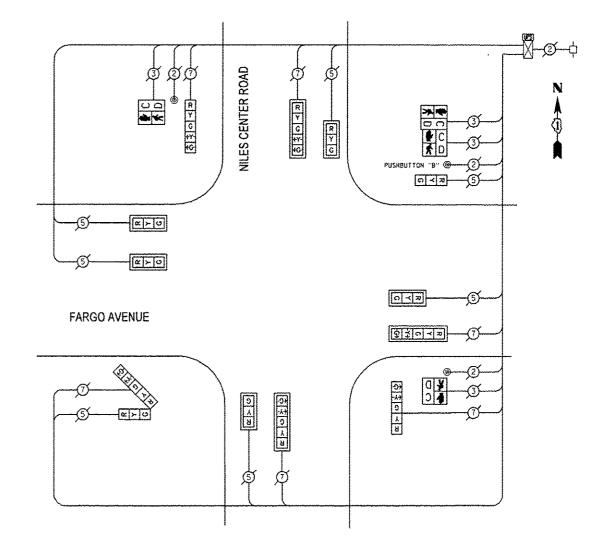
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY	UNIT	DESCRIPTION
----------	------	-------------

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

UUANITIT	UNII	11EM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED. 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, WAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED. RETROFIT
3	FACH	DEDESTRIAN PUSH-RUTTON NON LATCHING



CABLE PLAN

PUSHBUTTON "8" SHALL PLACE A CALL TO PHASES 6 & 8

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

	AFFIC SIGN	IAL INST		1	
ELECTRICAL SERVICE REQUIREMENTS NO. WATTAGE ! TYPE OF LAMPSXINCAND LED X 7 OPERATIONS!					
SIGNAL (RED)	13		17	0.50	110.50
(YELLDW)	. 13		25	0.25	81.2
(GREEN)	13		15	0.25	48.75
ARROW	12		12	0-10	14.40
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	. 1		100	1.00	100.00
ILLUM. SIGN			0	0	(
VIDEO VEH. SENSOR			0	0	(
FLASHER			0	0	
ENERGY COSTS TO:				FOTAL =	454.96
	VILLAGE : 5127 GA SKOKIF,	KTON ST.			

ENERGY SUPPLY - CONTACT: TERRIBLECK
PHONE: (847) 816-5239
COMPANY: ComEd

2688 Warreaville Read, Suite 283, Howners Grove, \$1, 68515-1763 630.785.8118 voice, 639.839.2566 faz www.mps-fl.com

DESIGNED - JNP REVISED DRAWN · JNP REVISED CHECKED TVN REVISED MILLENNIA PROFESSIONAL SERVICES DATE - 12/9/2013 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM NILES CENTER ROAD AT FARGO AVENUE SCALE: N/A SHEET OF SHEETS STA. . TO STA.

COUNTY SHEETS NO.
COOK 88 59
CONTRACT NO. 60X28 SECTION 2013-053TS VAR

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

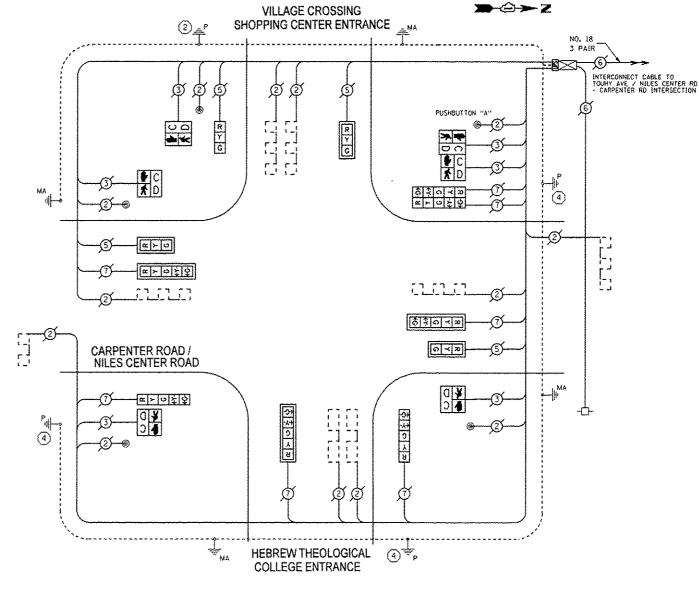
EACH PEDESTRIAN PUSH-BUTTON, NON LATCHING

QUANTITY	UNII	DESCRIPTION		
4	EACH	TRAFFIC	SIGN	

TRAFFIC SIGNAL POST SIGNAL HEAD, 1-FACE, 3-SECTION SIGNAL HEAD, 1-FACE, 5-SECTION SIGNAL HEAD, 2-FACE, 5-SECTION EACH EACH EACH EACH TRAFFIC SIGNAL BACKPLATE PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	1TEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3	EACH	TRAFFIC SIGNAL POST, CALVANIZED STEEL 16 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, I-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, I-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL



CABLE PLAN

PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 2 & 4

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

LEGENDS

- REPLACE 14 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION
- REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

TR. ELEC	TOTAL			
TYPE	C% OPERATIONS	WATTAGE		
SIGNAL (RED)	11	17	0.50	93.50
(YELLOW)	11	25	0.25	68.75
(GREEN)	11	15	0.25	41.25
ARROW	14	12	0.10	16.80
PEO. SIGNAL	8	25	1.00	150.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN		0	0	. 0
VIDEO VEH. SENSOR		0.	0	0
FLASHER		0	0	0
ENERGY COSTS TO:			TQTAL ≈	470-30

VILLAGE OF SKOKIE 5127 OAKTON ST. SKOKIE+ IL 60077

ENERGY SUPPLY - CONTACT: TERRIBLECK
PHONE: (847) 816-5239
COMPANY: ComEd

2690 Warrenville Road, Suite 203, Downers Grove, 11. 60815-1761 630.705.0110 voice, 630.839.2566 far

MILLENNIA PROFESSIONAL SERVICES

REVISED DRAWN REVISED JINP CHECKED TVN REVISED 12/9/2013 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN. AND PHASE DESIGNATION DIAGRAM VAR NILES CENTER RD CARPENTER RD AT VILLAGE CROSSING SHOPPING CENTER SHEET OF SHEETS STA. . TO STA.

SECTION COUNTY COGK 88 60 2013-053TS CONTRACT NO. 60X28 FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

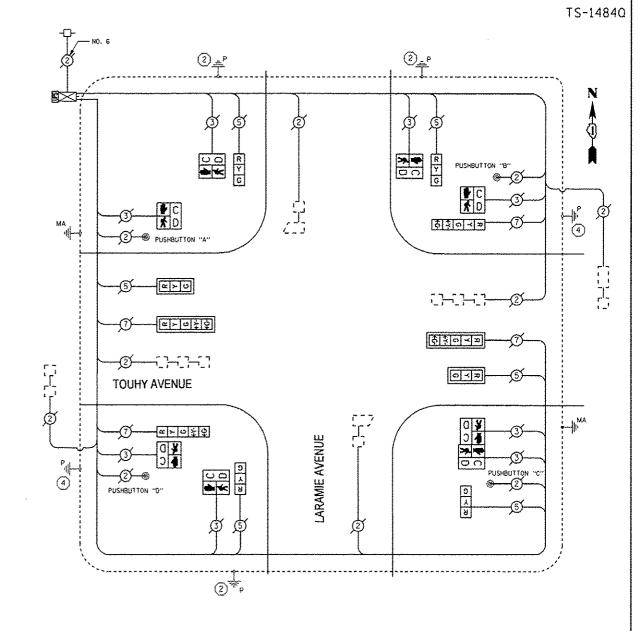
QUANTITY	UNIT	DESCRIPTION
5	EACH	TRAFFIC SIGNAL POST
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
6	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
1	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

EACH

		
YTITMAUC	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, I-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, S-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY. SPECIAL

PEDESTRIAN PUSH-BUTTON, NON LATCHING



CABLE PLAN

PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 2 & 8 PUSHBUTTON "B" SHALL PLACE A CALL TO PHASES 2 & 8 PUSHBUTTON "C" SHALL PLACE A CALL TO PHASES 6 & 8 PUSHBUTTON "D" SHALL PLACE A CALL TO PHASES 6 & 8

LEGENDS

- REPLACE 14 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION
- REPLACE 16 FT, PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

	TRA					
	ELEC	TOTAL				
	1YPE	NO. OF LAMPS	WATT		OPERATIONS	WATTAGE
	SIGNAL (RED)	10		17	0.50	85.00
	(YELLOW)	10		25	0,25	62.50
	(GREEN)	10		15	0.25	37.50
	ARROW	- 8		12	0.10	9.60
	PED. SIGNAL	8		25	1.00	200.00
6	CONTROLLER	3		100	1.00	100.00
*	ILLUM. SICH			0	0	0
Š	VIDEO VEH. SENSOR			0	0	0
ř	FLASHER			0	0	. 0
02550	ENERGY COSTS TO:				TOTAL =	494.60
5		VILLAGE	OF SKOK: KTOM ST			

SKOKIE. IL 60077

***. mps · li.com

ENERGY SUPPLY - CONTACT: TERRIBLECK
PHONE: (847) 816-5239
COMPANY: COMEd

. 2690 Warreaville Road, Soite 203, Downeez Grove, 11, 60515-1761 639.705.0110 voice, 630.839.2566 fea DRAWN JNP CHECKED TVN

DESIGNED - JINP REVISED REVISED REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM TOUHY AVENUE AT LARAMIE AVENUE SHEET OF

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR

THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SCALE: 'N/A

SECTION COOK 88 61 CONTRACT NO. 60X28 VAR 2013-053TS

MILLENNIA PROFESSIONAL SERVICES DATE 12/9/2013 REVISED

ME12814

SHEETS STA.

TO STA FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT P1\2812\ME12814_PT8162_18_Schwortz\CA00\Ph84_NorthCook_LED_6\Shta\68X28-sht-TS-Touhy

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

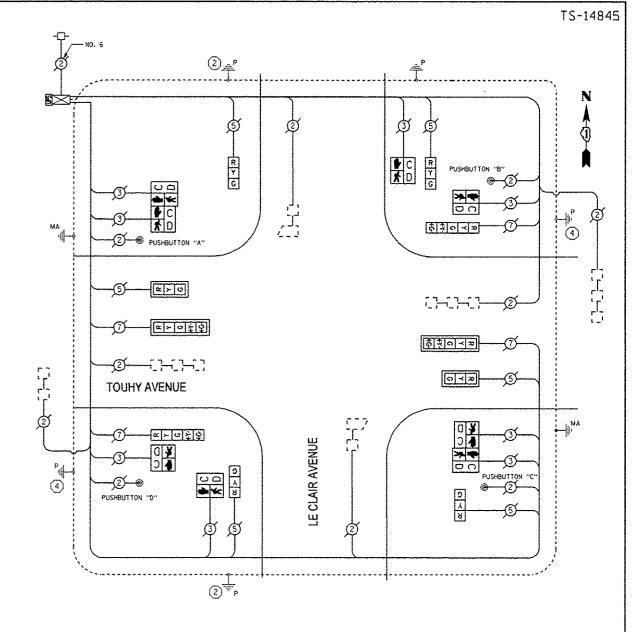
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY	UNIT	DESCRIPTION
4	EACH	TRAFFIC SIGNAL POST
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
3	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

OUANTITY	UNIT	LYEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT,
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
\$	EACH	MODIFY EXISTING CONTROLLER CABINET
I	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
ŧ	EACH	UNINTERRUPTIBLE POWER SUPPLY. SPECIAL

PEDESTRIAN PUSH-BUTTON, NON LATCHING



CABLE PLAN

PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 2 & 8 PUSHBUTTON "B" SHALL PLACE A CALL TO PHASES 2 & 8 PUSHBUTTON "C" SHALL PLACE A CALL TO PHASES 6 & 8 PUSHBUTTON "D" SHALL PLACE A CALL TO PHASES 6 & 8

LEGENDS

REPLACE 14 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

TR. ELEC	TOTAL				
TYPE	NO. OF LAMPS	WATT		X OPERATIONS	WATTAGE
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62,50
(GREEN)	10	I	15	0.25	37,50
ARROW	8	II	12	0.10	9.60
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM, SIGN			0	0	0
VIOED VEH. SENSOR		I	.0.	0	0
FLASHER			0	0	0
ENERGY COSTS TO:				TOTAL =	494.60

I.D.O.T.

VILLAGE OF SKOKIE S127 DAKTON ST. SKOKIE. IL BOOTT

ENERGY SUPPLY - CONTACT: TERRIBLECK
PHONE: (847) 816-5239
COMPANY: ComEd

DESIGNED . JNP REVISED DRAWN q_[4] REVISED CHECKED - TYN REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SCHEDULE OF QUANTITIES, CABLE PLAN. AND PHASE DESIGNATION DIAGRAM TOUHY AVENUE AT LE CLAIR AVENUE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR

THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SCALE: N/A

TOTAL SHEE NO. SECTION COUNTY COOK 2013-053TS VAR COOK 88 62 CONTRACT NO. 60X28

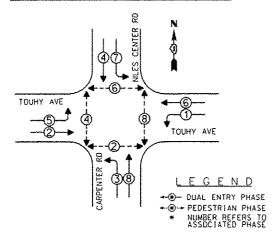
жиж. mas-il.com MILLENNIA PROFESSIONAL SERVICES DATE

2688 Warrewille Road, Suite 203, Dempers Grave, 11. 60515-1761 639.795.8110 voice, 639.839.2566 fay

REVISED

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 2.2012\ME12014.P78162_18_Sohwarex\CADD\Ph04_NorthCook_LED_6\St

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUANTITY	UNIT	DESCRIPTION
4	EACH	TRAFFIC SIGNAL POST
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
6	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3-SECTION, 1-5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION
10	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
6	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	SIGNAL HEAD, LED. 1-FACE, 3-SECTION, MAST ARM MOUNTED
6	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED. 2-FACE. BRACKET MOUNTED WITH COUNTDOWN TIMER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
i	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
6	EACH	PEDESTRIAN PUSH-BUTTON, NON LATCHING

(4)=P NILES CENTER ROAD Ø PUSMBUTTON "A" # \ (4) ပ <u>ဝ</u> **★** おきゃ
な > ロ を 各 **TOUHY AVENUE** টুইন≺ফ কিই। না এফা R 37 Y - 27 G 0 Y - 24 Y - 24 B 30 B 30 CARPENTER ROAD TRAFFIC SIGNAL SYSTEM— INTERCONNECT CABLE NG. 18, 3 PAIR TO ENTRANCE "C" 4 CABLE PLAN

PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 6 & 8 PUSHBUTTON "B" SHALL PLACE A CALL TO PHASES 2 & 4

REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

THE PROGRAMMED HEADS WILL BE REPLACED WITH STANDARD LED HEADS.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TR/ ELEC	TOTAL				
TYPE	WATTAGE				
SIGNAL (RED)	18	17	0.50	153.00	
(YELLOW)	18	25	0.25	112.50	
(CREEN)	18	15	0.25	67.50	
_ARROW	24	12	0.10	28.80	
PED. SIGNAL	8	25	1.00	200.00	
CONTROLLER	ŧ	100	1.00	100.00	
ILLUM. SICN		0	0	0	
VIDEO VEH. SENSOR		0	0	0	
FLASHER		. 0	0	0	
FUEDEN POSTS TO: TOTAL 2					

ENERGY COSTS TO:

VILLAGE OF SKOKIE 5127 OAKTON ST. SKOKIE, IL 60077

CONTACT: TERRIBLECK
PHONE: (847) 816-5239
COMPANY: Corned ENERGY SUPPLY - CONTACT:

2690 Warrearille Road, Saite 203, Downere Grove, 11, 60515-1761 630.705.0310 valce, 630.839.2566 fax wan.mos-il.com MILLENNIA PROFESSIONAL SERVICES

5	DATE 12/5/2013	REVISED .
	CHECKED . TVN	REVISED .
	DRAWN - JNP	REVISED .
	DESIGNED . JNP	REVISED .

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

-	SCHED	ULE OF QL	IANTITIES, CABLE P	LAN,	F,A.P, RTE.
	AND	PHASE D	ESIGNATION DIAGR	AM	VAR
DUHY	AVENUE	AT NILES	CENTER ROAD /C/	ARPENTER ROAD	
	CUECT	۸۲	SHEETS STA	AT2 07	650 000

COOK 88 63 CONTRACT NO. 60X28

TO SCALE: -N/A

SHEETS STA. TO STA. FEB. ADAD BIST, NO. 1 [ILLINOIS] FED. AID PROJECT
PIXEBIZNEIZBI4.PTBI62.18.Schwartz\CADD\Ph84.NorthCook.LED.6\Shts\68x20-sht-TS-Touhyhvo.NilesCoi

SECTION

DUAL ENTRY - ALL LEGS
PROTECTED/PERMITTED LEFT TURN PHASING

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUANTITY	UNII	DESCRIPTION	1		
4	EACH	PEDESTRIAN	SIGNAL	HEAD,	1-FACE
2	EACH	PEDESTRIAN	SIGNAL	HE AD,	2-FACE
6	EACH	PEDESTRIAN	PUSHBU	MOTTL	

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	TTEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
į.	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
3	EACH	SIGNAL HEAD, LED. 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
7	EACH	SIGNAL HEAD, LED, I-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST ARM MOUNTED. RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
6	EACH	PEDESTRIAN PUSH-BUTTON, NON LATCHING

INTERCONNECT TO SKOKJE BLVD, & HOWARD ST. NO. 62:5/125.12F FIBER OPTIC CABLE - INTERSECTION AND SAMPLING (SYSTEM) DETECTORS **হাই।ল**≺৯-- CALLING LOOPS HOWARD STREET **€** ≻ 0 (K) (V) CALLING LOOPS -**₹**0≺¤ - CALLING LOOPS ন ≺ ফ CALLING LOOPS - (x > 0 PUSHBUTTON "D' **(2)** CABLE PLAN

PUSHBUTTON "B" SHALL PLACE A CALL TO PHASES 4 & 6 PUSHBUTTON "D" SHALL PLACE A CALL TO PHASES 2 & 8 $\,$

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SCALE: -N/A

TR. ELEC	TOTAL				
TYPE	TYPE OF LAMPS X INCAND LED X % OPERATIONS				
SIGNAL (RED)	12	17	0,50	102.00	
(YELLOW)	12	25	0.25	75.00	
(GREEN)	12	15	0.25	45.00	
ARROW	4	12	0.10	4.80	
PED. SIGNAL	. 8	25	1.00	200.00	
CONTROLLER	1	100	1.00	100.00	
ILLUM, SIGN		0	0	0	
VIDEO VEH. SENSOR		0	0	0	
FLASHER		0	0	0	
ENERGY COSTS TO:			TOTAL ≈	526.80	

ENERGY COSTS TO:

VILLAGE OF SKOKIE S127 DAKTON ST, SKOKIE. IL GOO77

ENERGY SUPPLY ~ CONTACT: TERRIBLECK
PHONE: (847) 816-5239
COMPANY: ComEd

05 Warrewille Road, Spite 203, Des	oners Grave, 11. 60515-1761
0.705.0110 valce, 630.839.2566 fax	
w.mps-il.com	COVOLLY OND

DESIGNED	-	JNP	REVISED -
DRAWN	•	JNP	REVISED .
CHECKED	-	TVN	REVISED .
DATE		12/9/2013	REVISED .

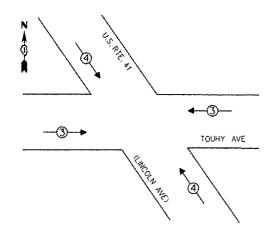
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

			JANTITIES, CABLE P		F
	AN	ID PHASE D	ESIGNATION DIAGR	AM	
S	ROUTE	41/LINCOLN	AVENUE AT HOWA	RD STREET	
_	SHEET	OF	SHEFTS STA.	TO STA.	

COUNTY SHEETS NO.
COOK 88 64
CONTRACT NO. 60X28 SECTION 2013-053TS FED. ROAD DIST. NO. 1 HLINOIS FED. AID PROJECT

MILLENNIA PROFESSIONAL SERVICES

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMP	TORS	}
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						
TYPE	ND.	WAT	AGE I	% OPERATIONS	TOTAL WATTAGE	
SIGNAL (RED)	16		17	0.50	136.00	
(YELLOW)	16		25	0.25	100.00	
(GREEN)	16		15	0.25	60.00	
ARROW	12		12	0.10	14.40	
PED. SIGNAL	2		25	1.00	50.00	
CONTROLLER	1		100	1.00	100.00	
ILLUM SIGN			0	Đ	0	
VIDEO VEH. SENSOR			0	0	0	
FLASHER			0	0	0	
ENERGY COSTS TO:				TQTAL ≈	460.40	
	VILLAGE (5127 OAK SKOKIE,	KTON ST	•	·		

4)__P (3) -[@X-X@] "P" TOUHY AVENUE EXISTING INTERCONNECT TO TOURY AVE, AT KOSTNER AVE, (\$\f\) NO. 62.5/125 (3) NO. 62.5/125 EXISTING SERVICE LOCATION AT INTERSECTION OF TOUNY AVE, & KOSTNER AVE. 4 = p EXISTING SERVICE TO U.S. RTE. 41 (LINCOLN AVE.) AT KOSTNER AVE. CABLE PLAN THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUANTITY UNIT DESCRIPTION 4 EACH TRAFFIC SIGNAL POST

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
ł	EACH	MODIFY EXISTING CONTROLLER CABINET
i	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY. SPECIAL

LEGENDS

THIS SIGNAL SHALL BE "EAGLE" TO MATCH

THE EXISTING ADJACENT SYSTEM.

- REPLACE IS FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION
- REPLACE 16 FT, PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION

2600 Warrewille Read, Suite 203, Downerz Grave, 11, 60515-1761 630.705,0110 voice, 630.839.2566 fax ини.моз-il.com

DESIGNED - JNP REVISED REVISED CHECKED - TVN REVISED MILLENNIA PROFESSIONAL SERVICES DATE

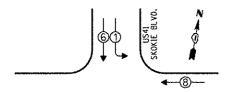
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE US ROUTE 41/LINCOLN AVENUE AT TOUHY AVENUE SHEETS STA.

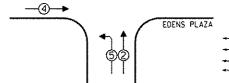
COUNTY SHEETS NO.
COOK 88 65 SECTION COUNTY 2013-053TS VAR CONTRACT NO. 60X28 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

TS-1615

REVISED

ENERGY SUPPLY - CONTACT: TERRIBLECK
PHONE: (847) 816-5239
COMPANY: Comed



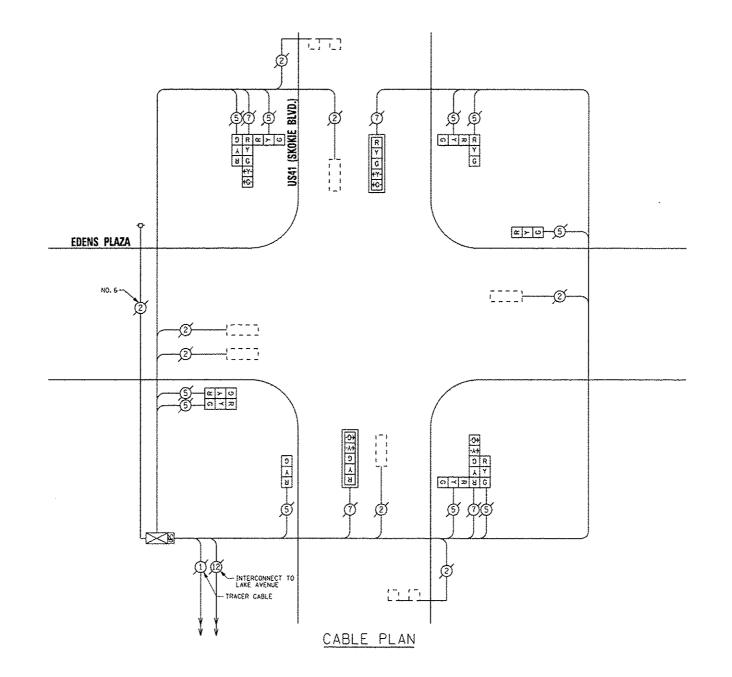


LEGEND

PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE

- - SINGLE ENTRY PHASE - DUAL ENTRY PHASE OVERLAP
PEDESTRIA

PHASE DESIGNATION DIAGRAM



REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

1.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPS INCAND LED X TOPERATIONS SIGNAL IREDI ARROW
PED. SIGNAL
CONTROLLER
ILLUM. SIGN
LUMINAIRE VIDEO SYSTEM 0.50 TOTAL = 368.60 FLASHER ENERGY COSTS TO:

VILLAGE OF SKOKIE S127 OAKTON STREET SKOKIE: ILLINOIS 60077

ENERGY SUPPLY - CONTACT: ---PHONE: ---COMPANY:

TERRI BLECK (847) 816-5239 ComEd

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN. UNII DESCRIPTION

EACH TRAFFIC SIGNAL POST EACH SIGNAL HEAD, 1-FACE, 3-SECTION

EACH SIGNAL HEAD, 1-FACE, 5-SECTION EACH SIGNAL HEAD, 2-FACE, 3-SECTION EACH SIGNAL HEAD, 2-FACE, 2-3 SECTION EACH TRAFFIC SIGNAL BACKPLATE

SCHEDULE OF QUANTITIES

QUAN, UNIT 1TEM

EACH EACH

EACH EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EOUPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

EACH

UNINTERRUPTIBLE POWER SUPPLY, SPECIAL



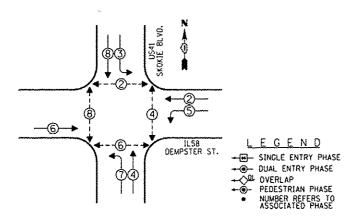
SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE. 100, HOFFWAN ESTATES, IL 60169

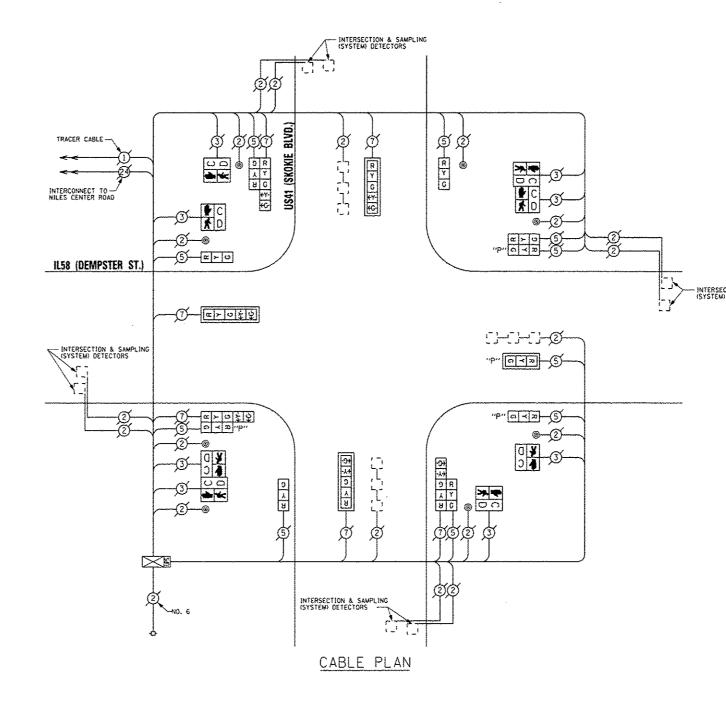
DESIGNED	-	JAM	REVISED	~
DRAWN	-	JAM	REVISED	-
CHECKED		LMM	REVISED	*
DATE	-	12-13-13	REVISED	**

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US41 (SKOKIE BOULEVARD) AT EDENS PLAZA SHEETS STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-053TS	СООК	88	66
		CONTRACT	NO. 6	0X28
	HILLMOSELECO A	D DOO KET		





REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

1.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPSXINCAND LED X2 OPERATIONS SIGNAL (RED) (YELLOW) ARROW PED. SIGNAL CONTROLLER 25 UMINAIRE VIDEO SYSTEM 150 FLASHER TOTAL = 610.40 ENERGY COSTS TO:

VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE. ILLINDIS 60077

TERRI BLECK ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: Confd

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUAN, UNIT DESCRIPTION

EACH TRAFFIC SIGNAL POST EACH SIGNAL HEAD, 1-FACE, 3-SECTION

EACH EACH SIGNAL HEAD, 1-FACE, 5-SECTION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE

PEDESTRIAN SIGNAL HEAD, 2-FACE EACH

TRAFFIC SIGNAL BACKPLATE

SCHEDULE OF QUANTITIES

QUAN. UNIT ITEM

EACH EACH

EACH EACH EACH EACH EACH EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
PEDESTRIAN PUSH-BUTTON

EACH

EACH PEDESTRIAN PUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET

EACH EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTIBLE POWER SUPPLY, SPECIAL



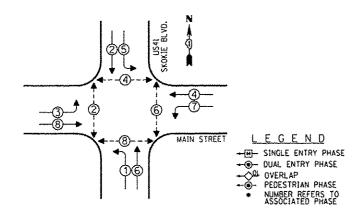
SAM SCHWARTZ ENGINEERING 3100 M. HEGGINS, STE. 100, HOFFWAN ESTATES, IL GOTGO

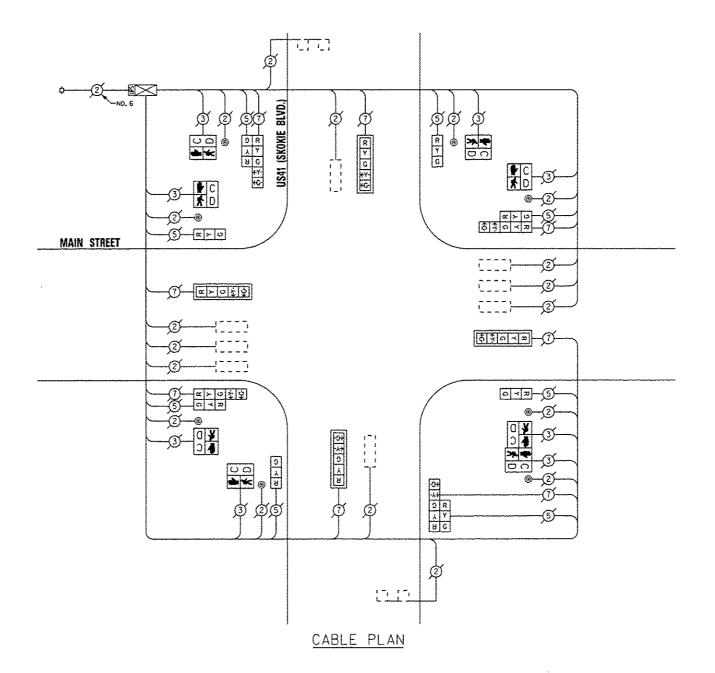
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DRAWN	~	MAL	REVISED	
CHECKED	-	TMM	REVISED	+
DATE	-	12-13-13	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE. US41 (SKOKIE BOULEVARD) AT IL58 (DEMPSTER STREET) SHEETS STA.

A. TE.	SECTION	COUNTY	TOTAL	SHEET NO.			
/AR	2013-053TS	COOK	88	67			
CONTRACT NO. 60X28							
IN INDISIES AND PROJECT							





RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

1.0.0.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS NO. OF LAMPSKINGAND LED XX OPERATIONS SIGNAL (RED) (CREEN) ARROW PED. SIGNAL CONTROLLER
ILLUM. SIGN
LUMINAIRE VIDEO SYSTEM FLASHER TOTAL = 615.20 ENERGY COSTS TO:

VILLAGE OF SKOKIE 5127 DAKTON STREET SKOKIE: ILLINOIS 60077

TERRI BLECK ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: ComEd

SAM SCHWARTZ

ENGINEERING

3100 M. HIGGENS, STE, 100, HOFFMAN ESTATES, IL GOTES

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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 SALVACE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUAN. UNII DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON 4

SCHEDULE OF QUANTITIES

OUAN. UNIT ITEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN PUSH-BUITON
MODIFY EXISTING CONTROLLER CABINET EACH EACH

EACH EACH EACH

EACH

MODIFY EXISTING CONTROLLER CABINE!
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 1-7ACE, 3-SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT

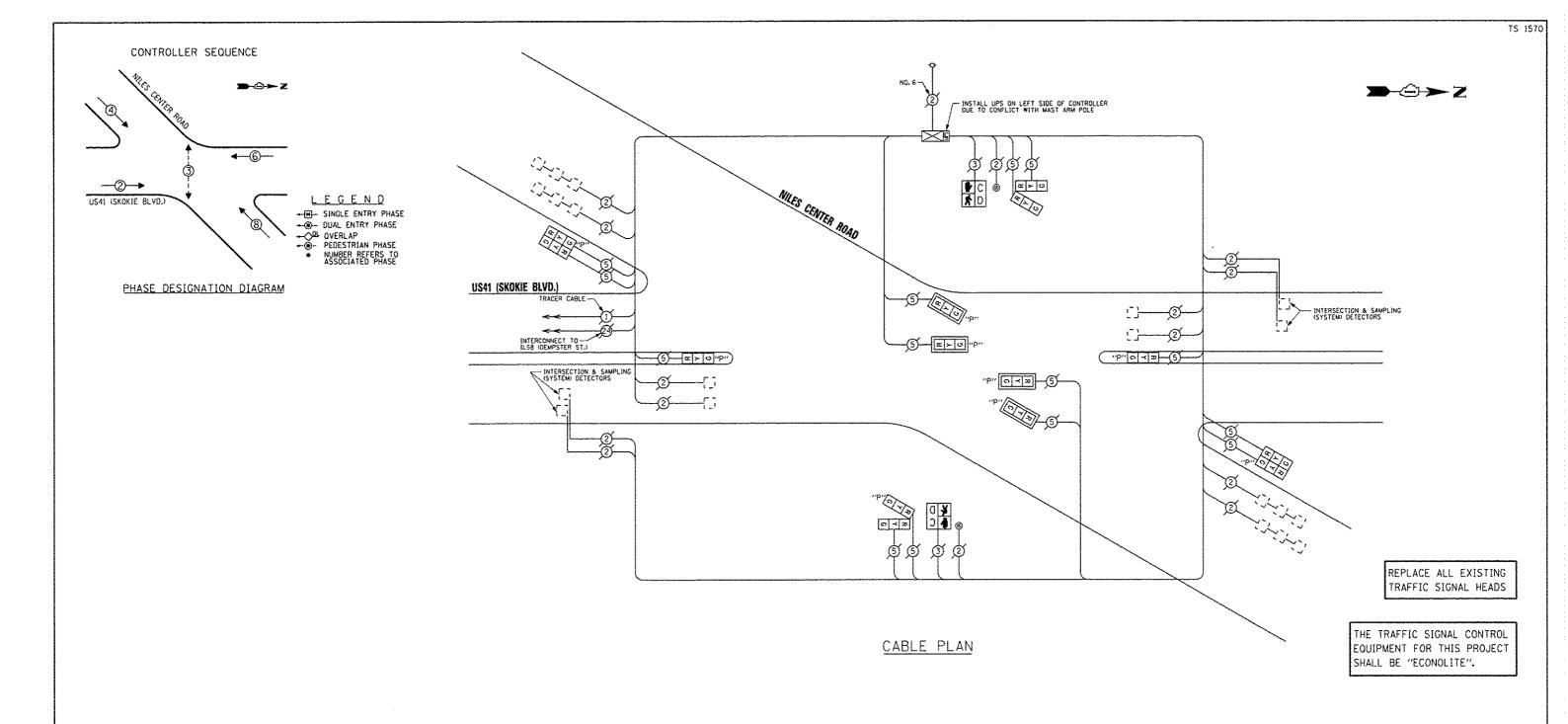
EACH EACH

DESIGNED	~	Jam	REVISED	-
DRAWN		JAM	REVISED	-
CHECKED	-	LMM	REVISED	-
DATE	-	12-13-13	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US41 (SKOKIE BLVD.) AT MAIN STREET SCALE: NONE SHEET SHEETS STA.

	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
٩R	2013-053TS	COOK	88	68		
		CONTRACT	NO. 6	0X28		
ILLINOIS FEO. AID PROJECT						



I.O.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL	
		₩AĬ	FACE		WATTAGE	
TYPE	NO. OF LAMPS	INCAND	LED)	% OPERATIONS		
SIGNAL (RED)	14		17	0.50	119,00	
(YELLOW)	14		25	0.25	87.50	
(GREEN)	14		15	0.25	52.50	
ARROW			12	0,10		
PED. SIGNAL	2		25	1.00	50.00	
CONTROLLER	t		100	1.00	100.00	
ILLUM. SIGN			25	0.05		
LUMINAIRE		250		0.50		
VIDEO SYSTEM		150		1.00		
FLASHER				0.50		
ENERGY COSTS TO):			TOTAL =	409.00	

VILLAGE OF SKOKIE 5127 DAKTON STREET SKOKIE: ILLINGIS 60077

ENERGY SUPPLY - CONTACT: ____ PHONE: ___ COMPANY: ___

TERR! BLECK (847) 816-5239 ComEd

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUAN. UNIT DESCRIPTION

EACH SIGNAL HEAD, 1-FACE, 3-SECTION EACH SIGNAL HEAD, LED, 2-FACE, 3-SECTION EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH TRAFFIC SIGNAL BACKPLAYE

EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN. UNIT ITEM

EACH EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, I-FACE, 3-SECTION, BRACKET MOUNTED
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, I-FACE, 3-SECTION, MAST ARM MOUNTED
COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, I-3 SECTION, BRACKET MOUNTED
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

EACH

EACH

EACH EACH

PEDESTRIAN SIGNAL HEAVELED, FACE, BRACKET ME TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE. 100, HOFFWAN ESTATES, IL 60169

٦	DESIGNED	~	JAN	REVISED	~
	DRAWN	~	JAM	REVISED	*
	CHECKED	~	FMM	REVISED	-
1	DATE	-	12-13-13	REVISED	4

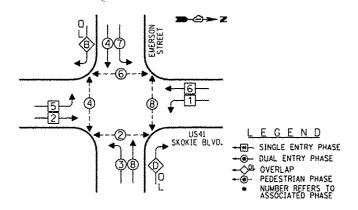
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US41 (SKOKIE BOULEVARD) AT NILES CENTER ROAD
SHEET OF SHEETS STA. TO STA

RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
VAR	2013-05315	COOK	88	69
		CONTRACT	NO. 6	0X28
	ILLINOIS FED. AI	O PROJECT		

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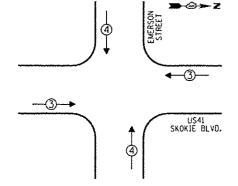




PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
8	2	4	+	5
ก	_			

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	4	↓ ↑		

TR ELEC	TOTAL							
	WATTAGE							
TYPE	NO. OF LAMPSX	INCAND	LED X	% OPERATIONS				
SIGNAL (RED)	18		17	0.50	153,00			
(YELLOW)	18		25	0.25	112.50			
(GREEN)	18		15	0.25	67.50			
ARROW	16		12	0.10	19,20			
PED. SIGNAL	8		25	1.00	200.00			
CONTROLLER	1		100	1.00	100.00			
ILLUM, SIGN			25	0.05				
LUMINAIRE		250		0.50				
VIDEO SYSTEM		150		1.00				
FLASHER				0.50				
ENERGY COSTS TO):			TOTAL =	652.20			
	VILLAGE OF SKOKIE 5127 OAKTON STREET SKOKIE. ILLINDIS 60077							

TERRI BLECK ENERGY SUPPLY - CONTACT: --PHONE: --COMPANY: (847) 816-5239

Ø *** ₽** CU □ (US41 (SKOKIE BLVD.) -9-<u>999</u> -® PUSHBUTTON "A" (हाराजराज) (ভাইনের বা TRACER CABLE -TRACER CABLE PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4 NO. 6 -PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8 CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNIT DESCRIPTION

NOTE:

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

OUAN.	UNIT	ITEM			

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
MODIFY EXISTING CONTROLLER CABINET EACH

EACH EACH

EACH EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTIBLE POWER SUPPLY. SPECIAL

PEDESTRIAN PUSH-BUTTON, NON-LATCHING



SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE. 100, HOFFWAN ESTATES, IL 60169

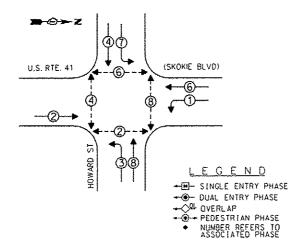
DESIGNED -JAM REVISEO DRAWN REVISED CHECKED - LMM REVISED DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US14 (SKOKIE BOULEVARD) AT EMERSON STREET SHEETS STA.

RTE.	SECTION	COUNTY	SHEETS	SHEET			
VAR	2013-053TS	COOK	88	70			
		CONTRACT	NO. 6	0X28			
	ILLINOIS FED. AID PROJECT						

EXISTING CONTROLLER SEQUENCE



RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

EXISTING PHASE DESIGNATION DIAGRAM

DUAL ENTRY - ALL LEGS
PROTECTED/PERMITTED LEFT TURN PHASING

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

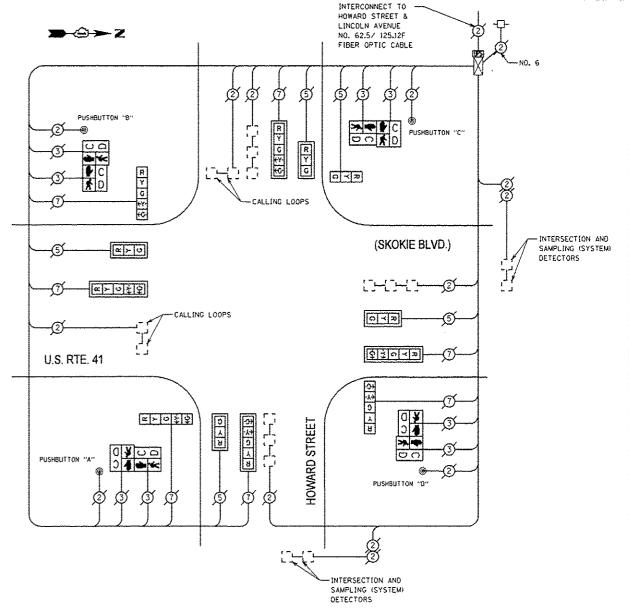
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY UNIT DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
. 4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
i	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
Ī	EACH	SIGNAL HEAD, LED. 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
4	EACH	PEDESTRIAN PUSH-BUTTON, NON LATCHING



CABLE PLAN

PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 2 & 4 PUSHBUTTON "B" SHALL PLACE A CALL TO PHASES 4 & 6 PUSHBUTTON "C" SHALL PLACE A CALL TO PHASES 6 & 8 PUSHBUTTON "D" SHALL PLACE A CALL TO PHASES 2 & 8

TS-1540

TOTAL SHEET SHEETS NO. 88 71

COOK

CONTRACT NO. 60X28

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. I OF LAMPSX	WATTAGE INCAND LED	I X % OPERATIONS	TOTAL WAITAGE
SIGNAL (RED)	12	17	0.50	102.00
(YELLOW)	12	25	0.25	75-00
(GREEN)	12	15	0.25	45.00
ARROW	12	12	0.10	14.40
PED. SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
ILLUM, SIGN		0	0	0
VIDEO VEH. SENSOR		. 0	0	0
FLASHER		0	0	0
ENERGY COSTS TO:			TOTAL =	536.40

VILLAGE OF SKOKIE STET DAKTON ST. SKOKIE. IL 60077

ENERGY SUPPLY - CONTACT: TERRIBLECK
PHONE: (847) 816-5239
COMPANY; ComEd

2680 Warrenville Rond, Suite 203, Damaers Grove, IL 60515-1761 639.705.0110 voice, 630.839.2566 fax

DESIGNED - JNP REVISED DRAWN REVISED CHECKED TVN REVISED 12/9/2013 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, SECTION AND PHASE DESIGNATION DIAGRAM VAR 2013-0531\$ US ROUTE 41 (SKOKIE BOULEVARD) AT HOWARD STREET

A SHEET OF SHEETS STA. TO STA SCALE: ·N/A SHEET FED. ROAD DIST. NO. 1 | ILLINOIS FED. ALD PROJECT

MILLENNIA PROFESSIONAL SERVICES DATE

DUAL ENTRY - ALL LEGS
PROTECTED/PERMITTED LEFT TURN PHASING

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

EACH PEDESTRIAN PUSH-BUTTON, NON LATCHING

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 BD PRICE.

YTITMALIC	UNIT	DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

ACMIALTE	Q133	3 1 to 191
Ł	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
Ł	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
l.	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED, RETROFIT
\$	EACH	SIGNAL HEAD, LED, L-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, I-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, I-FACE. 5-SECTION. BRACKET MOUNTED, RETROFIT

∪ <u>∩</u> - CALLING LOOPS CALLING LOOPS **∞** ≻ ♡ # > 이웃일 कुँ ई छ ≺ छ ত্রিস ILL. RTE. 50 (SKOKIE BLVD.) U.S. RTE. 41 (SKOKIE BLVD.) ပေဝ ØØ

CABLE PLAN

PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 2 & 4 PUSHBUTTON "C" SHALL PLACE A CALL TO PHASES 6 & 8

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TR. ELEC	TOTAL				
3971	WATTAGE				
SIGNAL (RED)	13	17	0.50	110.50	
LYELLOW)	13	25	0.25	81.25	
(SREEN)	13	15	0.25	48.75	
ARROW	12	12	0.10	14.40	
PED. SIGNAL	8	25	1.00	200.00	
CONTROLLER	1	100	1.00	100.00	
ILLUM. SIGN	1.	0	0	0	
VIDEO VEH. SENSOR		0	0	0	
FLASHER		0	0	0	
ENERGY COSTS TO:			TOTAL ⇔	554.90	
VILLAGE OF SKOKIE 5127 DAKTON ST. SKOKIE- IL 60077					

2698 Warzenville Road, Suite 293, Downers Geore, 11. 60315-1761 639.705.0110 voice, 630.839,2566 far ***. ***. f.com

REVISED DESIGNED - JNP DRAWN REVISED CHECKED . TVN REVISED MILLENNIA PROFESSIONAL SERVICES DATE 12/9/2013 REVISED

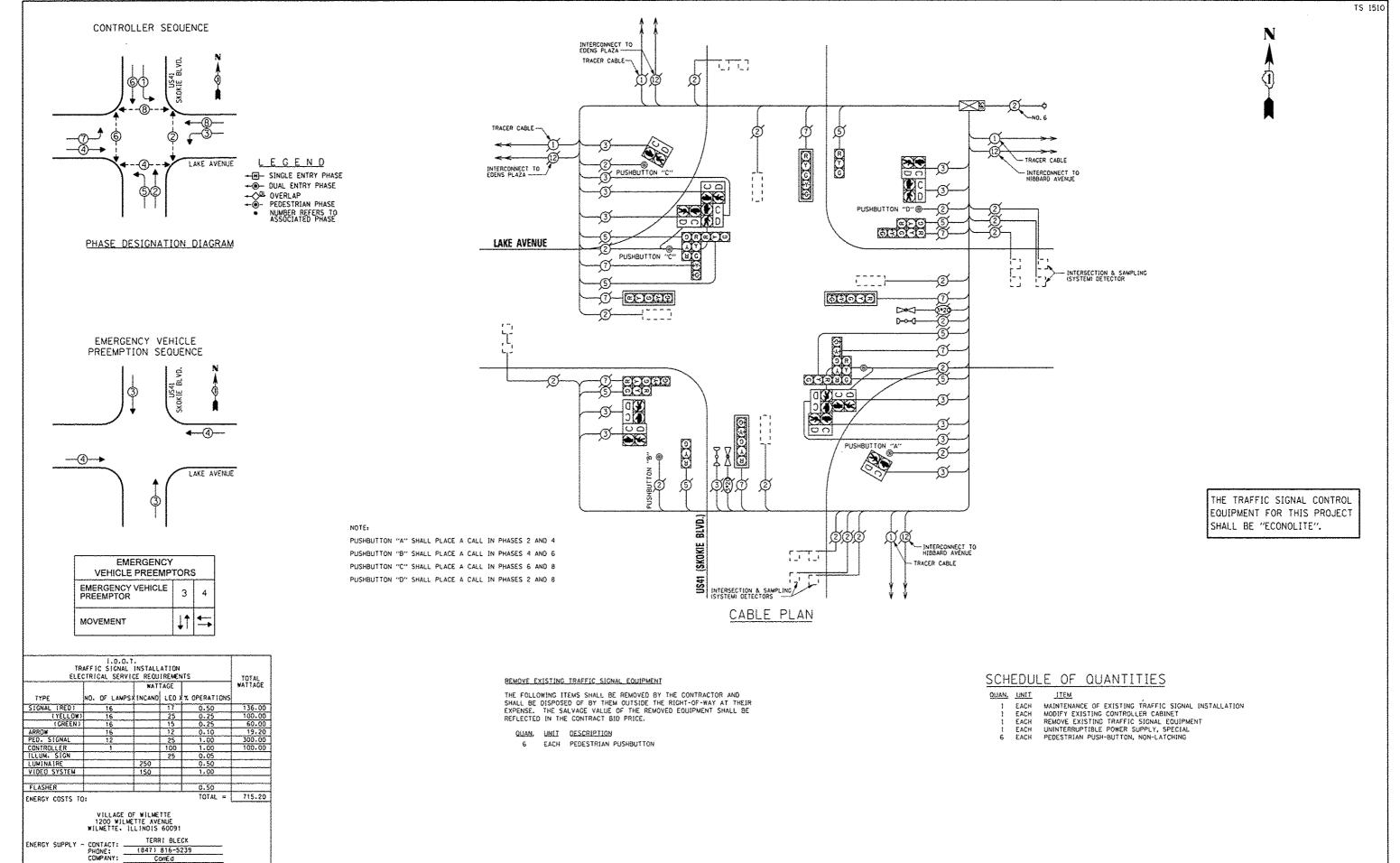
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM US RTE 41-IL 50/CICERO AVE 'AT US ROUTE 41/LINCOLN AVE SCALE; 'N/A SHEET OF SHEETS STA. TO STA.

SECTION COUNTY COOK 88 72 CONTRACT NO. 60X28 PAV 2013-053TS FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

TS-1485

ENERGY SUPPLY - CONTACT: TERRIBLECK
PHONE: (847) 816-5239
COMPANY: COMEd



SAM SCHWARTZ ENGINEERING 3100 LHICCHO, SIE. 100, HOFFWAN ESTATES, H. 60169 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US41 (SKOKIE BOULEVARD) AT LAKE AVENUE

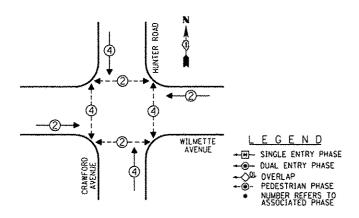
NONE SHEET OF SHEETS STA. TO STA.

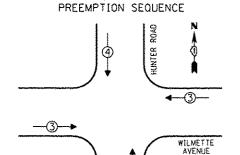
F.A. RIE, SECTION COUNTY TOTAL SHEETS NO.

VAR 2013-053TS COOK 88 73

CONTRACT NO. 60X28

| ILLINGIS| FED. AID PROJECT





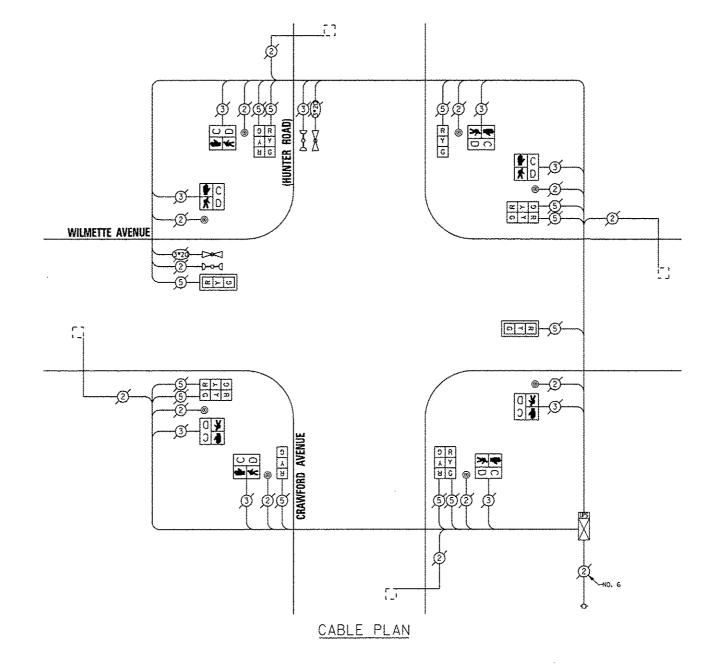
EMERGENCY VEHICLE

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4			
MOVEMENT	=	1			

TR ELEC	TOTAL.						
	WATTAGE						
TYPE	NO. OF	LAMPS	INCAND	LED)	% OPERATIONS		
SIGNAL (RED)	1:	2		17	0.50	102.00	
(YELLOW)	1	2		25	0.25	75.00	
(CREEN)	1:	2		.15	0.25	45.00	
ARROW				12	0.10		
PED. SIGNAL		8		25	1.00	200.00	
CONTROLLER		1		100	1.00	100.00	
ILLUM, SIGN				25	0.05		
LUMINAIRE			250		0.50		
VIDEO SYSTEM			150		1.00		
FLASHER					0.50		
ENERGY COSTS TO);				TOTAL ⇒	522.00	

VILLAGE OF WILMETTE 1200 WILMETTE AVENUE WILMETTE: ILLINOIS 60091

TERRI BLECK ENERGY SUPPLY ~ CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COMEd



RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNIT DESCRIPTION

EACH SIGNAL HEAD, 1-FACE, 3-SECTION EACH SIGNAL HEAD, 2-FACE, 3-SECTION EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN. UNIT

ITEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN PUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT EACH EACH

EACH EACH EACH EACH EACH EACH

SAM SCHWARTZ ENGINEERING 3100 M.HIGGINS, STE. 100, HOFFMAN ESTATES, TE 60169 DESIGNED - JAM REVISED DRAWN - JAM REVISED CHECKED - LMM REVISED DATE REVISED

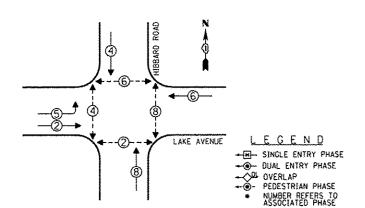
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE. CRAWFORD AVENUE (HUNTER ROAD) AT WILMETTE AVENUE

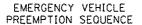
Ė.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
AR	2013-053TS	COOK	88	74			
n-Mriamon		CONTRACT	NO. 6	0X28			
. ,	the morsteen, at project						

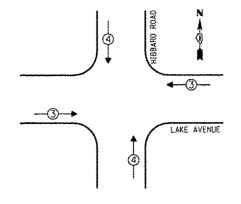
SHEET SHEETS STA.





CONTROLLER SEQUENCE



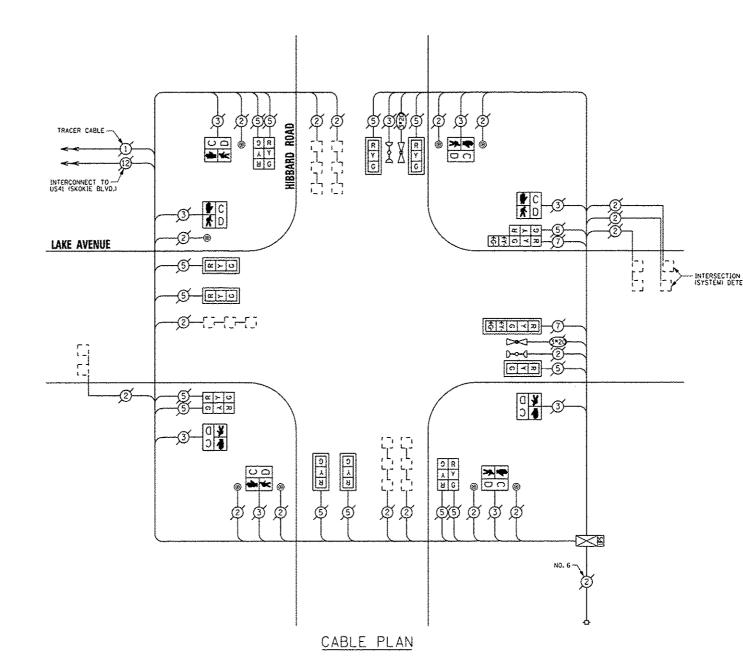


EMERGENCY VEHICLE PREEMP		3
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	=	↓ ↑

TR ELEC	TOTAL				
		WAY	AGE		WATTAGE
TYPE	NO. OF LAMPS	INCAND	LEO I	% OPERATIONS	
SIGNAL (RED)	16		\$ 7	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	4		12	0,10	4.80
PED. SIGNAL	В		25	1.00	200-00
CONTROLLER	1		100	1.00	100,00
ILLUM, SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER	 			0.50	
ENERGY COSTS TO):			TOTAL =	600.80

VILLAGE OF WILMETTE 1200 WILMETTE AVENUE WILMETTE: JLLINDIS 60091

TERRI BLECK (847) 816-5239



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN. UNLI DESCRIPTION

EACH SIGNAL HEAD, 1-FACE, 3-SECTION
EACH SIGNAL HEAD, 1-FACE, 5-SECTION
EACH SIGNAL HEAD, 2-FACE, 3-SECTION
EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION

PEDESTRIAN SIGNAL HEAD, 1-FACE EACH

TRAFFIC SIGNAL BACKPLATE
PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN, UNIT ITEM EACH

EACH

EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BAST ARM MOUNTED
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
PEDESTRIAN PUBLICADIO. EACH

EACH

PEDESTRIAN PUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL



DESIGNED	~	JAM	REVISED	-
DRAWN	~	JAM	REVISED	-
CHECKED	-	LMM	REVISED	-
DATE	-	12-13-13	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

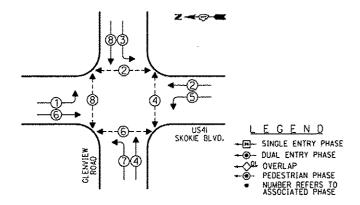
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, HIBBARD ROAD AT LAKE AVENUE EET OF SHEETS STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
VAR	2013-05315	COOK	88	75				
CONTRACT NO. 60X28								
BURNOIS FEO. AID PROJECT								

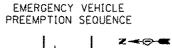
REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

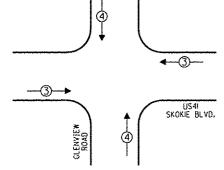
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM





MOVEMENT	=	<u></u>
EMERGENCY VEHICLE PREEMPTOR	3	4
EMERGENCY VEHICLE PREEMP		3

TR ELEC	TOTAL				
		WAT	FAGE		WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED :	% OPERATIONS	
SIGNAL (RED)	10		17	0.50	85.00
(YELLDW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINATRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	-
ENERGY COSTS TO);			TOTAL =	504.20

VILLAGE OF WILMETTE 1200 WILMETTE AVENUE WILMETTE: ILLINDIS 60091

ENERGY SUPPLY ~ CONTACT: — PHONE: COMPANY:

TERRI BLECK (847) 816-5239 ComEd

NOTE:

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

CABLE PLAN

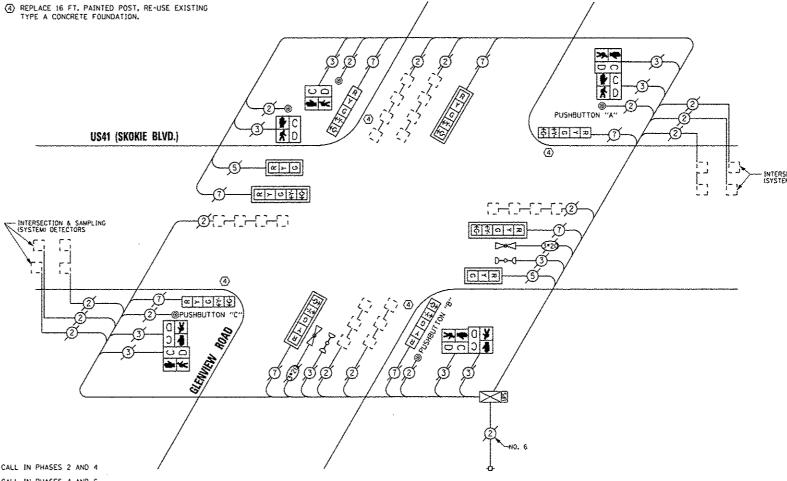
Z

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL

EQUIPMENT FOR THIS PROJECT

SHALL BE "ECONOLITE".



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUAN. UNII DESCRIPTION

EACH TRAFFIC SIGNAL POST EACH SIGNAL HEAD, 1-FACE, 3-SECTION

EACH SIGNAL HEAD, 1-FACE, 5-SECTION PEDESTRIAN SIGNAL HEAD, 1-FACE

PEDESTRIAN SIGNAL HEAD, 2-FACE TRAFFIC SIGNAL BACKPLATE

PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

UNIT ITEM QUAN.

EACH EACH

EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
MODISY EVISTING CONTROL SEC AGINET EACH EACH

EACH

EACH FACH

MODIFY EXISTING CONTROLLER CABINET

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTIBLE POWER SUPPLY, SPECIAL EACH

PEDESTRIAN PUSH-BUTTON, NON-LATCHING



SAM SCHWARTZ ENGINEERING 3100 M.HICGENS, STE, 100, HOFFWAN ESTATES, IL 60169

- 3	DESIGNED	-	JAM	REVISED	-
	DRAWN	-	JAM	REVISED	-
	CHECKED	-	LMM	REVISED	*
-	DATE	>	12-13-13	REVISED	_

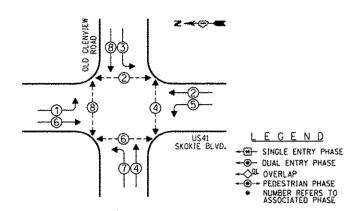
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US41 (SKOKIE BOULEVARD) AT GLENVIEW ROAD SHEETS STA.

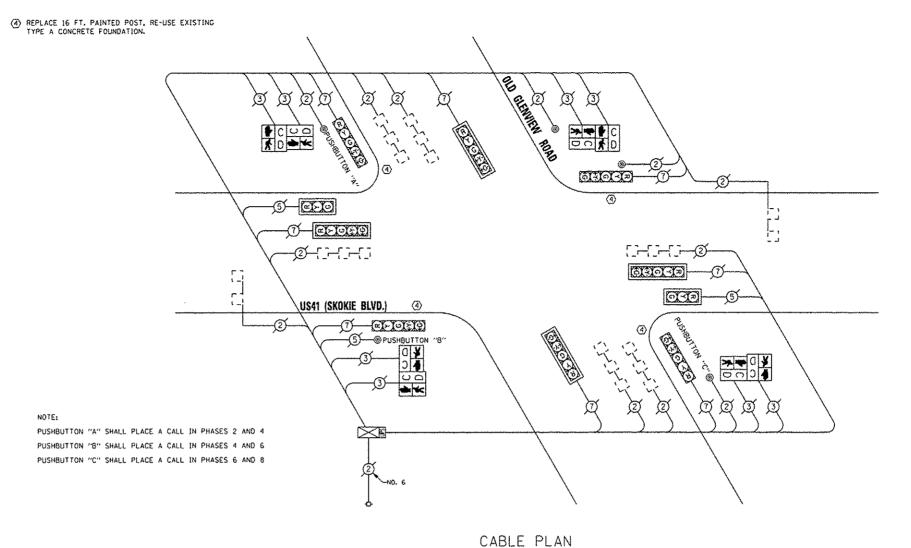
A. TE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-053TS	COOK	88	76
		CONTRACT	NO. 6	0X28
y	ILLINOIS FED. AL	O PROJECT		

Z

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

		WAT	rage		WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED)	% OPERATIONS	
SIGNAL (RED)	10		17	0.50	85.00
(AEFFOM)	10		25	0.25	62.50
(CREEN)	10		15	0.25	37.50
ARROW	16		12	0-10	19.20
PED. SIGNAL	- 8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.09	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

FLASHER ENERGY COSTS TO:

VILLAGE OF WILMETTE 1200 WILMETTE AVENUE WILMETTE, ILLINGIS 60091

504.20

TOTAL =

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNII DESCRIPTION

EACH TRAFFIC SIGNAL POST EACH SIGNAL HEAD, 1-FACE, 3-SECTION EACH SIGNAL HEAD, 1-FACE, 5-SECTION EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH TRAFFIC SIGNAL BACKPLATE

EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN. UNIT ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH

EACH

TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH EACH MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

UNINTERRUPTIBLE POWER SUPPLY, SPECIAL PEDESTRIAN PUSH-BUTTON, NON-LATCHING



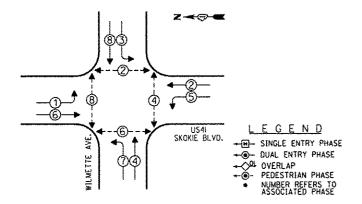
SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE. 100, HOFFWAN ESTATES, 11 60169

DESIGNED	~	JAM	REVISED	
DRAWN	-	JAM	REVISED	*
CHECKED	-	LWM	REVISED	-
DATE	-	12-13-13	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE. US14 (SKOKIE BOULEVARD) AT OLD GLENVIEW ROAD SHEET SHEETS STA.

A. TÊ.	SECTION	COUNTY	TOTAL	SHEET NO.
VAR	2013-05315	COOK	88	77
·	······································	CONTRACT	NO. 6	0X28
***************************************	ILI INOIS FFO.	AID PROJECT		



PHASE DESIGNATION DIAGRAM

(4) REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION. US41 (SKOKIE BLVD.) **ই**ইন≺ফ ি শ্ব **7, -** C

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

Z----

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

CABLE PLAN

	AFFIC S CTRICAL		INSTALL			TOTAL
			WAT	TAGE		WATTAGE
TYPE	NO. OF	LAMPS	INCAND	LED)	% OPERATIONS	
SIGNAL (RED)	1	ō .		17	0.50	85.00
(YELLOW)	1	0		25	0.25	62.50
(GREEN)	1	0		15	0.25	37.50
ARROW	1	6		12	0.10	19,20
PED. SIGNAL		8		25	1.00	200.00
CONTROLLER		1		100	1.00	100.00
fllum. Sign				. 25	0.05	
LUMINAIRE			250		0.50	
VIDEO SYSTEM			150		1.00	
FLASHER	<u> </u>				0.50	
ENERGY COSTS TO	31				TOTAL =	504-20

VILLAGE OF WILMETTE 1200 WILMETTE AVENUE WILMETTE: ILLINOIS 60091

ENERGY SUPPLY - CONTACT: _____ PHONE: ____ COMPANY: ____

TERRI BLECK (847) 816-5239

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN.	UNII	DESCRIPTION
4	EACH	TRAFFIC SIGNAL POST
2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
8	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FAC
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FAC
6	EACH	TRAFFIC SIGNAL BACKPLATE
6	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

		
QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT,
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
3	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
6	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

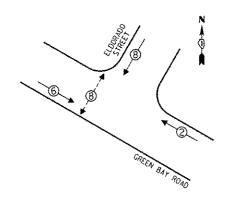


DATE		12-13-13	REVISED -
CHECKED	~	LMM	REVISED -
DRAWN	-	JAM	REVISED -
DESIGNED	-	JAM	REVISED ~

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

					HASE DESIGNATION MPTION SEQUENCE,
US	41 (SKOKIE	BOULE	VARD) AT	WILM	ETTE AVENUE
SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.

E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
AR	2013-05375	COOK	88	78		
		CONTRACT	NO. 6	0X28		
ILLINOIS FED. AID PROJECT						



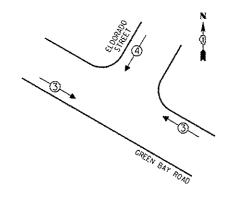
LEGEND

① CONSTRUCTION NOTE:

- - SINGLE ENTRY PHASE
- OUAL ENTRY PHASE
 OUERLAP
 PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMP		 }
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	*	1

	T	WAT	TAGE	T	TOTAL WATTAGE
TYPE	NO. OF LAMPS:	INCAND	LED :	X DPERATIONS	
SIGNAL IRED)	9		17	0.50	76.5
(YELLOW)	9		25	0.25	56.2
(GREEN)	9		15	0.25	33.7
ARROW			12	0.10	
PEO. SIGNAL	2		25	1.00	50.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER			Ī.	0.50	
ENERGY COSTS TO	3+			TOTAL =	316.5

VILLAGE OF WINNETKA SIO GREEN BAY ROAD WINNETKA. ILLINDIS 60093

ENERGY SUPPLY - CONTACT: __ PHONE: __ COMPANY: (847) 816-5239

> SAM SCHWARTZ ENGINEERING 3100 M.HIGGINS, STE. 100, HOFFWAN ESTATES, JL 60169

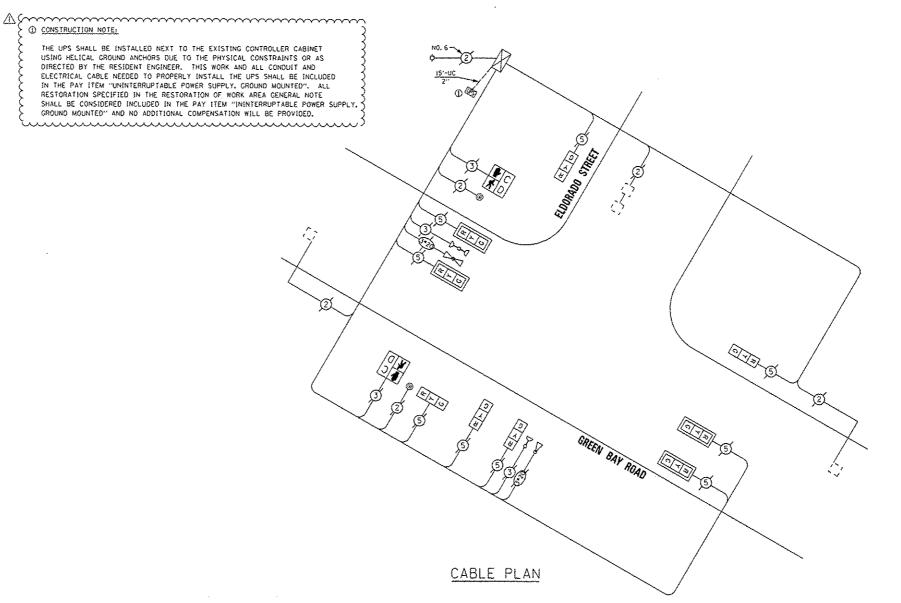
TERRI BLECK

DESIGNED - JAM REVISED - 101-28-14 DRAWN JAN REVISED CHECKED - LMM REVISED DATE 12-13-13 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, GREEN BAY ROAD AT ELDORADO STREET

SECTION COOK 88 79 VAR 2013-053TS CONTRACT NO. 60X28



REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE".

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN. UNII DESCRIPTION

EACH JIGNAL HEAD, I-FACE, 3-SECTION EACH PEDESTRIAN SIGNAL HEAD, I-FACE EACH TRAFFIC SIGNAL BACKPLATE EACH PEDESTRIAN PUSHBUTTON

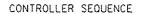
SCHEDULE OF QUANTITIES

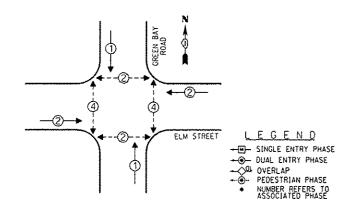
QUAN, UNIT

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

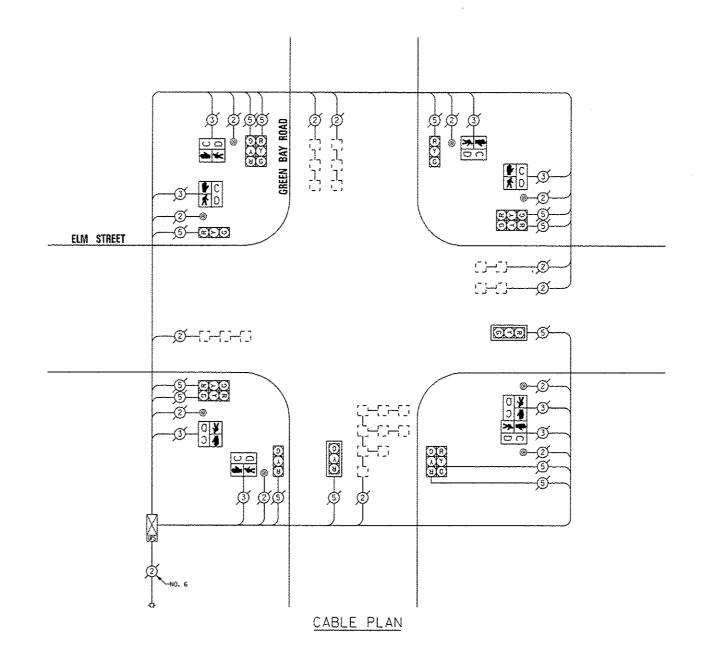
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

EACH EACH EACH EACH EACH PEDESTRIAN SIGNAL READ, LED. 1-FACE, BRACKET MOTTAFFIC SIGNAL BACKPLATE, LOUVERED. ALUMINUM PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED





PHASE DESIGNATION DIAGRAM



SCALE: NONE

SHEET

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE".

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS TOTAL WATTAGE NO. OF LAMPS INCAND LED X " OPERATIONS TYPE SIGNAL (RED) CONTROLLER ILLUM, SIGN LUMINATRE VIDED SYSTEM FLASHER 0.50 TOTAL = 540.50 ENERGY COSTS TO:

VILLAGE OF WINNETKA 510 CREEN BAY ROAD WINNETKA: ILLINDIS 60093

ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: 1847) 816-5239
COMPANY: COMED

ConEd SAM SCHWARTZ ENGINEERING

3100 M. HICCHES, STE, 100, HOFFMAN ESTATES, IL 60169

TERRI BLECK

DESIGNED - JAM REVISED - 101-28-14 DRAWN -MAL REVISED CHECKED -CMM REVISEO DATE - 12-13-13 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, GREEN BAY ROAD AT ELM STREET SHEETS STA.

COUNTY TOTAL SHEE SHEETS NO. SECTION COOK 88 80 CONTRACT NO. 60X28 2013-053TS VAR

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

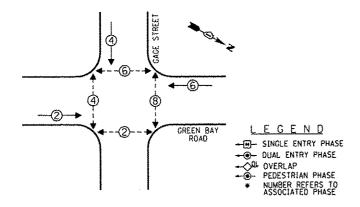
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUAN. UNII DESCRIPTION

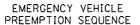
EACH PEDESTRIAN SIGNAL HEAD. 1-FACE EACH PEDESTRIAN SIGNAL HEAD. 2-FACE EACH PEDESTRIAN PUSHBUTTON

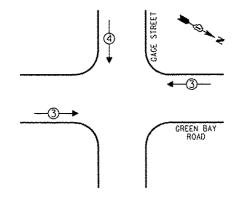
SCHEDULE OF QUANTITIES

QUAN. UNIT 1TEM



PHASE DESIGNATION DIAGRAM



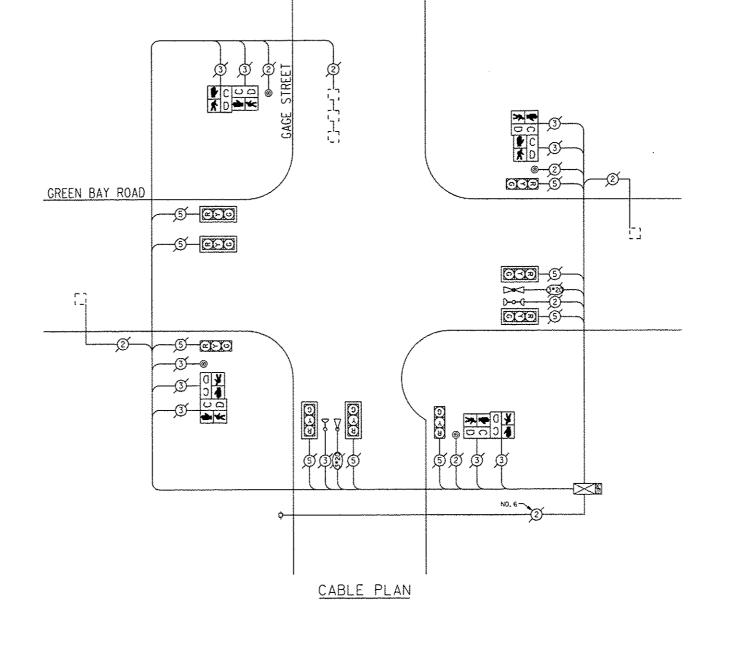


EMERGENCY VEHICLE PREEMP		}
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		Ļ

TR Ele(TOTAL				
TYPE	NO. OF LAMPS	WAT X INCAND		CA OPERATIONS	WATTAGE
SIGNAL (RED)	9		17	0.50	76.50
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW			12	0.10	
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM, SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO):			TOTAL =	466.50

VILLAGE OF WINNETKA 510 GREEN BAY ROAD WINNETKA. ILLINOIS 60093

TERRI BLECK ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COMEd



SCHEDULE OF QUANTITIES

ITEM EACH EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
PEDESTRIAN PUSH-BUTTON, NON-LATCHING

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN. UNII DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE. 100, HOFFWAN ESTATES, IL 60169

DESIGNED	-	JAM	REVISED	-
DRAWN	~	JAM	REVISED	*
CHECKED	-	LMM	REVISED	*
DATE	~	12-13-13	REVISED	-

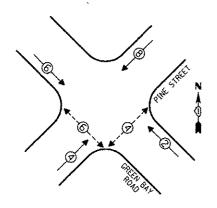
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, GREEN BAY ROAD AT GAGE STREET
SHEET OF SHEETS STA.

COUNTY TOTAL SHEET NO.
COOK 88 81
CONTRACT NO. 60X28 SECTION 2013-05315 VAR

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT

SHALL BE "EAGLE".

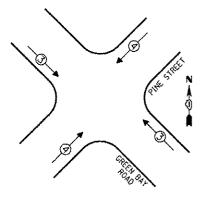


LEGEND

- H- SINGLE ENTRY PHASE -- DUAL ENTRY PHASE
- OUERLAP
 PEDESTRIAN PHASE
 NUMBER REFERS TO
 ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

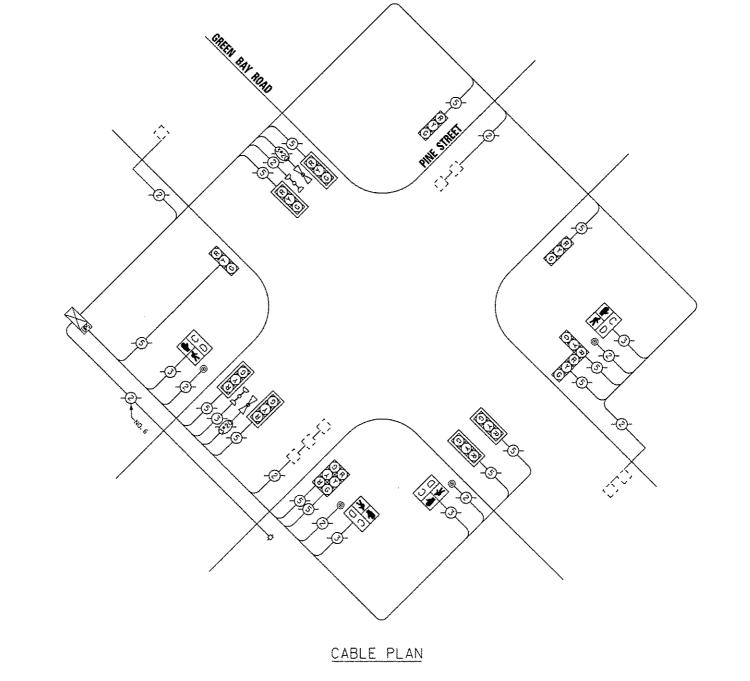


EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	←	↓ ↑				

TR ELE	TOTAL						
	1			WAT	FAGE		WATTAGE
TYPE	NO.	QF	LAMPS	INCAND	LED >	% OPERATIONS	
SIGNAL (RED)		1	3		17	0,50	110.50
(AETFOM)		1	3		25	0.25	81.25
(GREEN)	I	1	3		15	0.25	48.75
ARROW					12	0.10	
PED. SIGNAL			4		25	1.00	100.00
CONTROLLER			1	1	100	1.00	100.00
ILLUM, SIGN	[25	0.05	
LUMINATRE	1			250		0.50	
VIDEO SYSTEM				150		1.00	
FLASHER	<u> </u>	_	*******			0.50	
ENERGY COSTS TO	1:					TOTAL =	440.50

VILLAGE OF WINNETKA 510 GREEN BAY ROAD WINNETKA. ILLINGIS 60093

TERRI BLECK ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: 1847: 816-5239
COMPANY: COMEd



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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 BIO PRICE.

QUAN. UNII DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN. UNIT ITEM

EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
EACH MODIFY EXISTING CONTROLLER CABINET
EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
EACH UNINTERRUPTIBLE POWER SUPPLY, SPECIAL



SAM SCHWARTZ ENGINEERING 3100 M. HISSINS, STE. 100, HOFFMAN ESTATES, IL 60169

DESIGNED	-	JAM	REVISED	~
DRAWN	*	JAM	REVISED	-
CHECKED	-	LMM	REVISED	
DATE	-	12-13-13	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

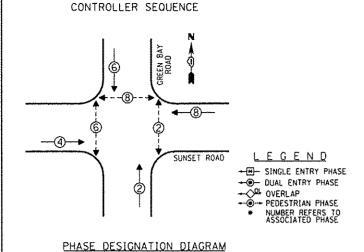
	AND EME	RGENC		E PREEN	ASE DESIGNATION IPTION SEQUENCE, IBSET
SCALE: NONE	SHEFT	OF	SHEETS	سححسسسيس	TO STA.
SCALE: NUNE	28661	Ų٢	3HEE 13	31A,	10 SIA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-05315	COOK	88	82
 		CONTRACT	NO. 6	0X28
	ILLINOIS FED. A	D PROJECT		

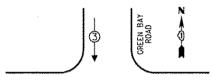
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT

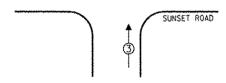
SHALL BE "EAGLE".





EMERGENCY VEHICLE PREEMPTION SEQUENCE





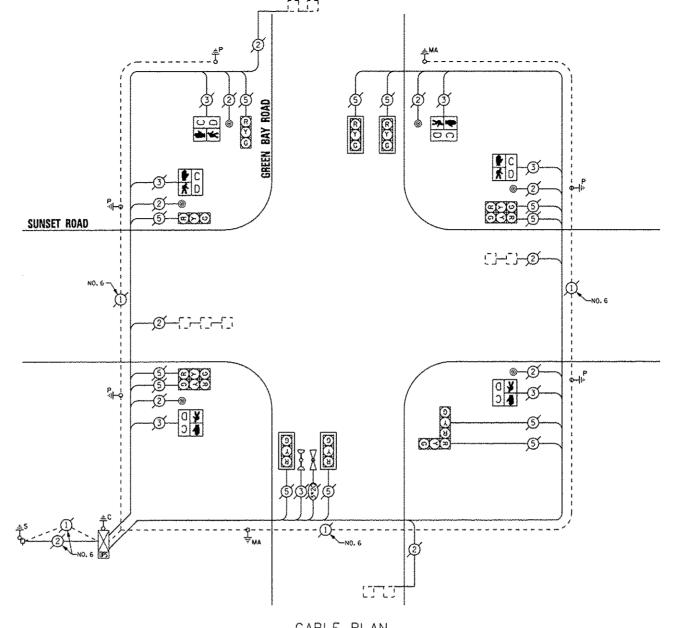
EMERGENCY VEHICLE PREEMP		3
EMERGENCY VEHICLE PREEMPTOR	3	
MOVEMENT	↓ ↑	

TR: ELEC	TOTAL				
		WAT	FAGE		WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED :	% OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(WELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW			12	0.10	
PEO. SIGNAL	6		25	1,00	150-00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO):			TOTAL =	472.00

VILLAGE OF WINNETKA 510 GREEN BAY ROAD WINNETKA: ILLINDIS 60093

ENERGY SUPPLY - CONTACT: --PHONE: --COMPANY:

TERRI BLECK (847) 816-5239



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE".

CABLE PLAN

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN, UNIT DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN. UNIT

ITEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LEO, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN PUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

EACH EACH EACH EACH EACH

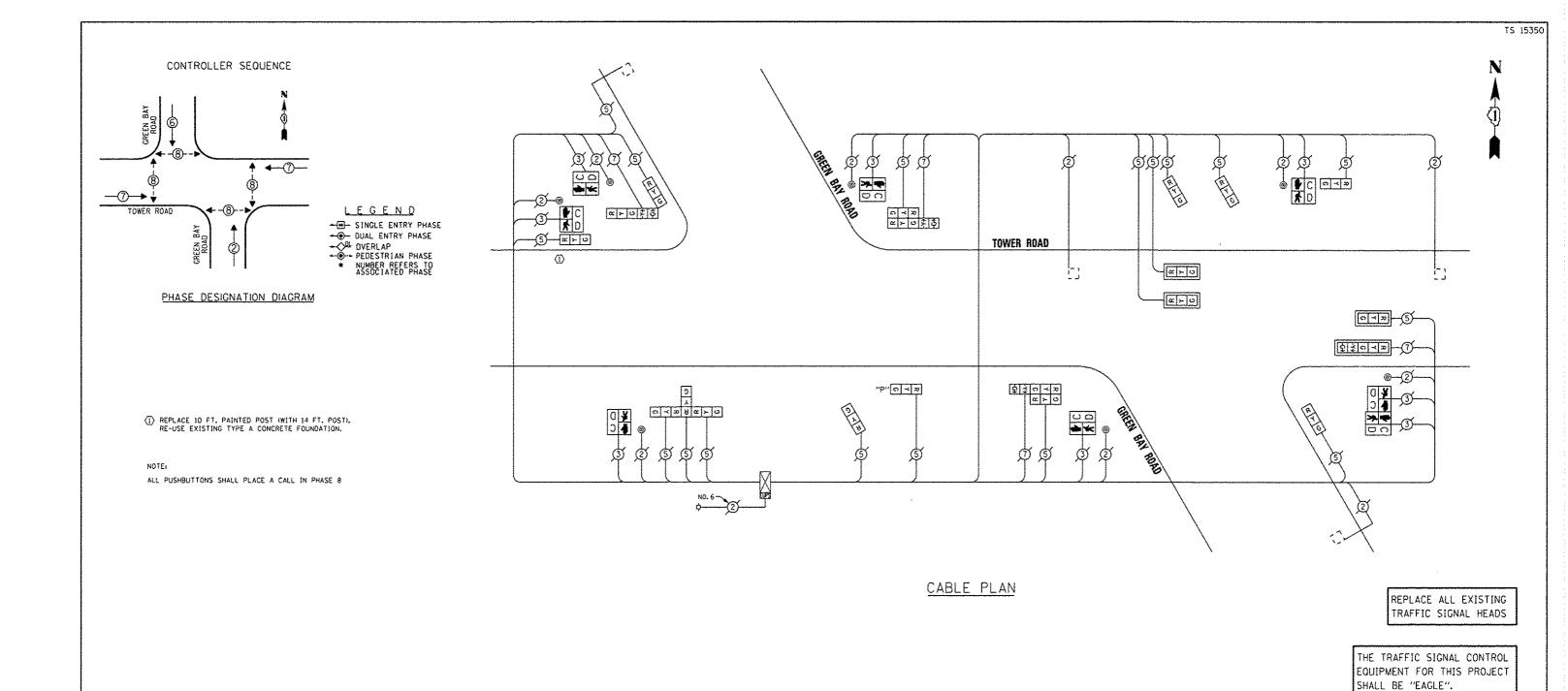
SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE, 100, HOTEMAN ESTATES, IL 60169

DESIGNED	-	JAM	REVISED	~
DRAWN	~	JAM	REVISED	-
CHECKED	-	FMM	REVISED	-
DATE	-	12-13-13	REVISED	*

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, GREEN BAY ROAD AT SUNSET ROAD
HEET OF SHEETS STA.

SECTION COUNTY COOK 88 83 CONTRACT NO. 60X28 2013-053TS



1.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS INCANO LED X % OPERATIONS SIGNAL (RED) (CREEN) ARROW PED. SIGNAL CONTROLLER ILLUM, SIGN LUMINAIRE VIDEO SYSTEM FLASHER

VILLAGE OF WINNETKA STO GREEN BAY ROAD WINNETKA, ILLINOIS 60093

ENERGY COSTS TO:

ENERGY SUPPLY - CONTACT: 1ERM: 1255...
PHONE: (847) 816-5239
Conf.d

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUAN. UNII DESCRIPTION EACH TRAFFIC SIGNAL POST EACH SIGNAL HEAD, 1-FACE, 3-SECTION EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION EACH SIGNAL HEAD, 3-FACE, 3-SECTION PEDESTRIAN SIGNAL HEAD, 1-FACE PEDESTRIAN SIGNAL HEAD, 2-FACE EACH EACH TRAFFIC SIGNAL BACKPLATE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
i	EACH	SIGNAL HEAD, LED. 3-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED. 1-FACE, 3-SECTION, BRACKET MOUNTED
6	EACH	PEDESTRIAN SIGNAL HEAD, LED. 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
;	EACH	PEDESTRIAN SIGNAL HEAD, LED. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, SIE. 100, HOFFMAN ESTATES, IL GOIG9

TOTAL = 679.60

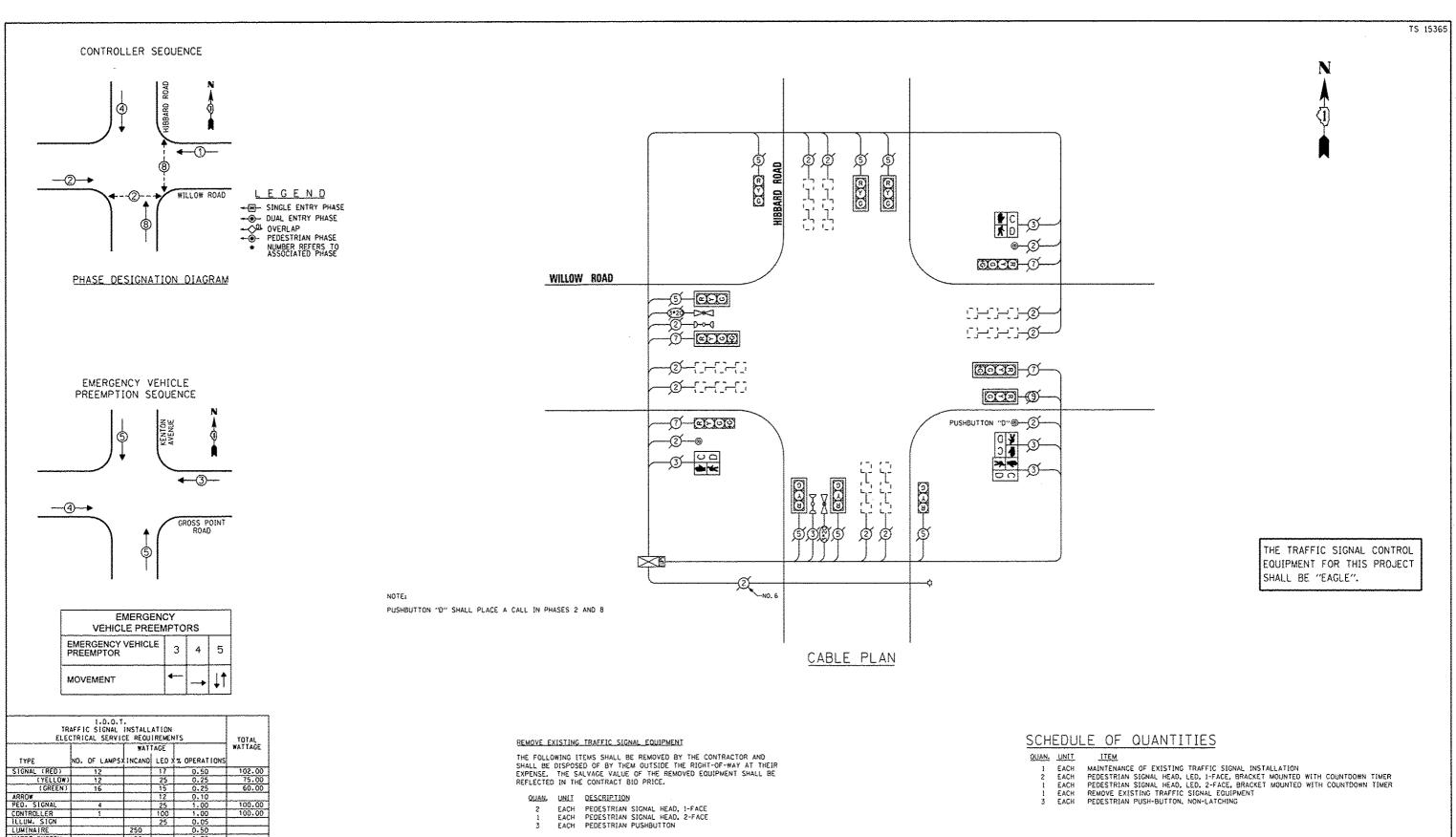
DESIGNED -JAM REVISED DRAWN JAM REVISED CHECKED -LMM REVISED 12-13-13 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, GREEN BAY ROAD AT TOWER ROAD

SHEETS STA.

COUNTY TOTAL SHEET NO.
COOK 88 84
CONTRACT NO. 60X28 SECTION 2013-053TS VAR ILLINOIS FED. AID PROJECT



VILLAGE OF WINNETKA 510 GREEN BAY ROAD WINNETKA. ILLINOIS 60093

VIDEO SYSTEM FLASHER

ENERGY COSTS TO:

TERRI BLECK ENERGY SUPPLY - CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COMES

> SAM SCHWARTZ ENGINEERING 3100 M. HIGGING, STE. 100, HOFFMAN ESTATES, IL 60169

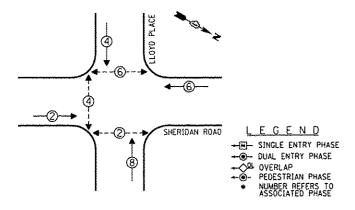
TOTAL = 437.00

DESIGNED	~	JAM	REVISED	-	
DRAWN	-	JAM	 REVISED	-	
CHECKED	-	LMM	 REVISED	~	
DATE	-	12-13-13	 REVISED	-	

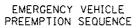
STATE	: OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

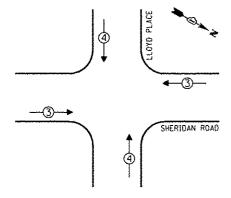
	AND E	UANTITIES, C MERGENCY BARD ROAD	VEHICL	E PREE	MPTION		
SCALE: NONE	SHEET	٥۶	SHEETS	STA.		TO STA.	

	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	VAR	2013-053TS	COOK	88	85
_			CONTRACT	NO. E	0X28
		ILLINOIS FEO. A	ID PROJECT		



PHASE DESIGNATION DIAGRAM



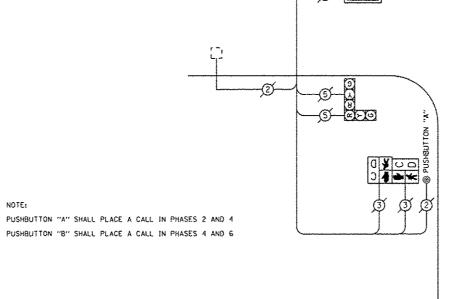


EMERGENCY VEHICLE PREEMP		3
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	_

I.O.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
		WAT	AGE		WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED >	% OPERATIONS	
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW			12	0.10	
PED. SIGNAL	6		25	1.00	150.00
CONTROLLER	1		100	1.00	100,00
ILLUM, SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO) :			TOTAL =	435.00

VILLAGE OF WINNETKA 510 GREEN BAY ROAD WINNETKA. ILLINDIS 60093

TERRI BLECK ENERGY SUPPLY - CONTACT: TERR! BLECK PHONE: 1847) 816-5239 COMPANY: Coned



LLOYD PLACE <u>oce</u> - 62-SHERIDAN ROAD ত্ৰভ্ৰভ CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE".

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

QUAN UNIT DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN, UNIT

ITEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEOESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
PEDESTRIAN PUSH-BUTTON, NON-LATCHING

EACH EACH EACH EACH EACH EACH



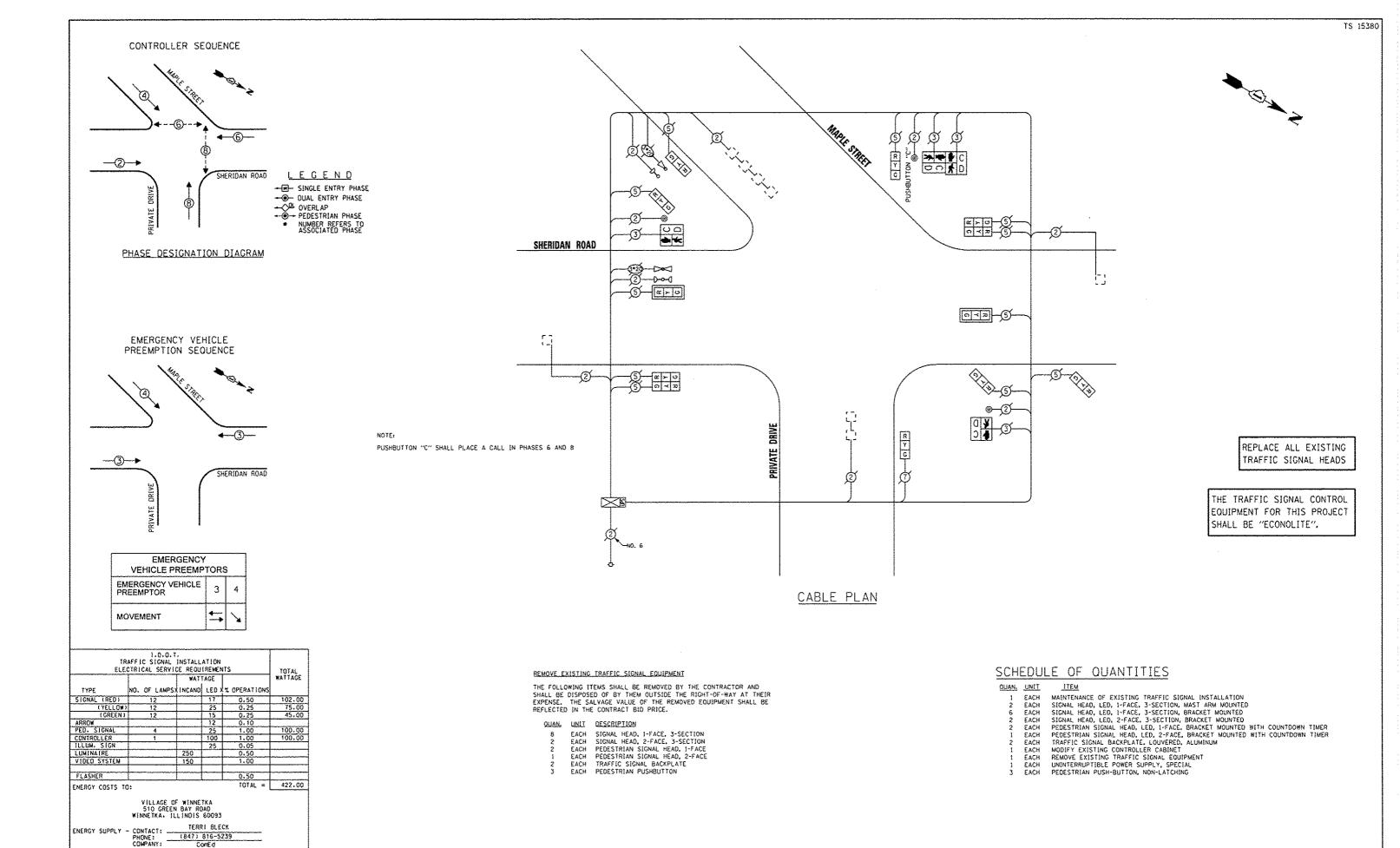
SAM SCHWARTZ ENGINEERING 3100 M. HICCINS, STE, 100, HOFFMAN ESTATES, IL SOLGO

DESIGNED		JAM	REVISED	-
DRAWN	-	JAM	REVISED	-
CHECKED	-	FWM	REVISED	*
DATE	~	12-13-13	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	AND E		Y VEHICL	E PREE	MPTION	SIGNATION SEQUENCE,	
SCALE: NONE	SHEET	OF	SHEETS	STA.		TO STA.	

RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
VAR	2013-05375	COOK	88	86
		CONTRACT	NO. 6	0X28
47	ILLINGIS FEO. A	D PROJECT		***************************************





SAM SCHWARTZ ENGINEERING 3100 M. HIGGINS, STE. 100, NOFTWAN ESTATES, IL 60169

ComEd

DESIGNED	^	JAM	REVISED	~	
DRAWN	-	JAM	REVISED	-	
CHECKED	-	FMM	REVISED	~	
DATE	-	12-13-13	REVISED	-	

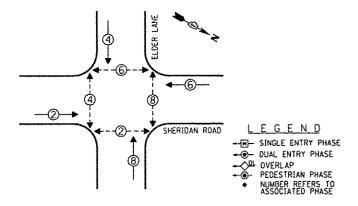
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, SHERIDAN ROAD AT MAPLE STREET SHEETS STA.

TOTAL SHEE SHEETS NO. SECTION COUNTY COOK 88 87 CONTRACT NO. 60X28 2013-05375

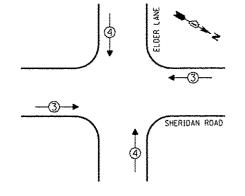






PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

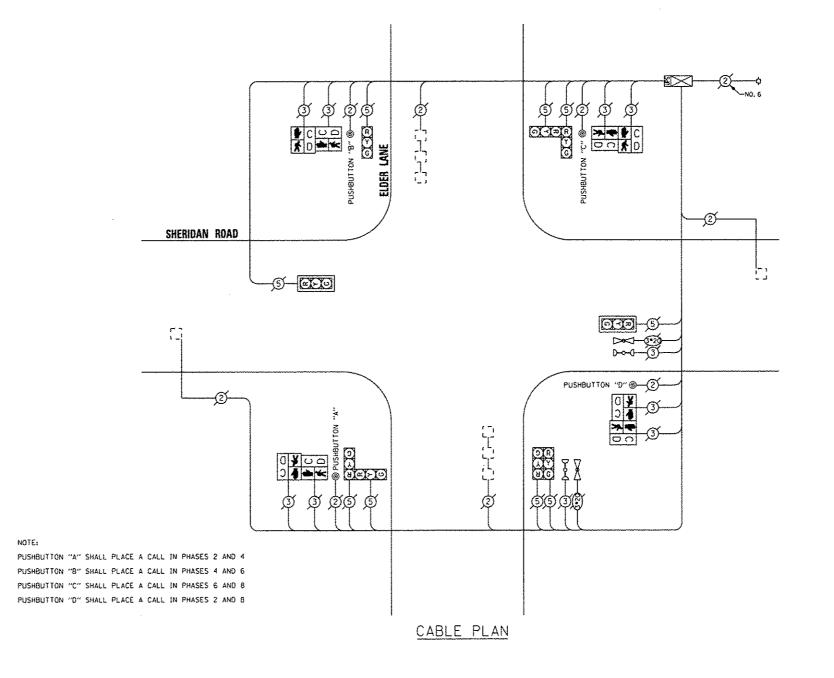


EMERGENCY VEHICLE PREEMP		3
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	=	↓ ↑

· · · · · · · · · · · · · · · · · · ·		WAT		TOTAL WATTAGE	
TYPE	NO. OF LAMPS	INCAND	LEO X 7	CPERATIONS	
SIGNAL (RED)	9		17	0.50	76.50
(YELLOW)	9		25	0.25	56.25
(CREEN)	9		15	0.25	33.75
ARROW			12	0.10	
PED. SIGNAL	8	T	25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM, SICH		\Box	25	0.05	
LUMINATRE		250		0.50	
VIDEO SYSTEM	-	150		1,00	
FLASHER				0.50	
ENERGY COSTS TO	١.			TOTAL =	466,50

VILLAGE OF WINNETKA \$10 GREEN BAY ROAD WINNETKA: ILLINDIS 60093

ENERGY SUPPLY - CONTACT: HERRI SECONO (847) 816-5239



SCHEDULE OF QUANTITIES

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
DEPETETIAN DISCURLIFITAN MOUNTER ATMINE EACH EACH

EACH

PEDESTRIAN PUSH-BUTTON, NON-LATCHING

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUAN, UNII DESCRIPTION

EACH PEDESTRIAN SIGNAL HEAD, 2-FACE EACH PEDESTRIAN PUSHBUTTON

SAM SCHWARTZ ENGINEERING 3100 M, HIGGINS, STE, 100, NORTHAN ESTATES, IL 60169

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION SHERIDAN ROAD AT ELDER LANE OF SHEETS STA. SHEET

88 (28 ILLINDIS FED. AID PROJECT

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT

SHALL BE "ECONOLITE".

DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE,

	RÎĘ.	SECTION	COUNTY	SHEETS	NO
	VAR	2013-05375	COOK	88	88
,			CONTRACT	NO. 6	OX2