03-08-13 LETTING ITEM 062

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

FOR INDEX OF SHEETS, SEE SHEET NO. 2

### PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN NORTHWEST LAKE COUNTY LIGHT EMITTING DIODE (LED) INSTALLATION SECTION 2012-040TS LAKE COUNTY

C-91-487-12

### **HIGHWAY STANDARDS**

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701006-0 4 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

701101-03 OFF-ROAD OPERATIONS MULITLANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

01701-08 URBAN LANE CLOSURE MULTILANE INTERSECTION

701901-02 TRAFFIC CONTROL DEVICES

720001-01 SIGN PANEL MOUNTING DETAIL

720006-03 SIGN PANEL ERECTION DETAILS

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

862001-01 UNITERRUPTABLE POWER SUPPLY (UPS)

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

880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

LAKE COUNTY LOCATION MAP SEE SHEET NO. 3 ACO DAYSETS STEPRESON REMERACO DOOK NO HENT LAKE

CARDOLL

OCIE

WHITESIDO

LEX

WHOTESIDO

WE PARE

STADE

MACCOCE

WASCOCE

WAS

2012-040TS

LAKE X 60 1

ILLINOIS CONTRACT NO. 60185 400-4=50

D-91-487-12

062-060958 SIgned DANIEL WIKTORZAK, P.E. IL. Lic. No. 062-060950

Expires 11-30-2013

Date 121112

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED

DEPUTY OFFICETOR OF HIGHWAYS, REGION ENGINEER

LO 13

JOHN D. BATANZOUL, PE BE
CHANGE ENGINEER OF DESIGN AND ENVIRONMENT

FED 1 2013

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

Regina Webster & Associates. Inc.

PROJECT ENGINEER: SUDUD MAHMOUD
PROJECT MANAGER: DARYLE DREW

CONTRACT NO. 60T85

1-800-892-0123

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FRE NAME

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### INDEX OF SHEETS

1 COVER SHEET
2 INDEX OF SHEETS
3 LOCATION MAP
4-8 SUMMARY OF QUANTITIES
9-14 DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

### TRAFFIC SIGNAL PLANS:

PAGE*	TS.	INTERSECTION NAME
15		IL ROUTE 59 AT IL ROUTE 173
16	6847	IL ROUTE 173 AT WALMART ENTRANCE IL ROUTE 59 AT GRASS LAKE ROAD
17		
18 19		IL ROUTE 173 AT SAVAGE ROAD/DEERCREST DRIVE IL ROUTE 173 AT DEEP LAKE ROAD
20	~~~	US DAVIE AN AL DOUTE SO AT MARTINA BAAR
21	559	US ROUTE 12-IL ROUTE 59 AT IL ROUTE 134 (BIG HOLLOW ROAD) HS ROUTE 12 AT GRAND AVENUE
22	945	US ROUTE 12 AT GRAND AVENUE
23		IL ROUTE 59 AT GRAND AVENUE/WASHINGTON STREET
24	12290	US ROUTE 12 AT EAGLE POINT ROAD/SAYTON ROAD
25	221 30	IL ROUTE 59 AT DEVLIN ROAD
	12305	US ROUTE 45 AT IL ROUTE 120
27	12315	US ROUTE 45 AT IL ROUTE 120 IL ROUTE 83 AT WASHINGTON STREET
28	13739	IL ROUTE 83 AT LIBRARY LANE IL ROUTE 83 AT CENTER STREET
29	13740	IL ROUTE 83 AT CENTER STREET
30	13741	IL ROUTE 83 AT FREDERICK ROAD
31	13742-	IL ROUTE 120 AT LAKE STREET DELETED
32	13746	IL ROUTE 120 AT ALLEGHANY STREET
33		IL ROUTE 83 AT LAKE STREET
34		IL ROUTE 83 AT SHOREWOOD ROAD
35		IL ROUTE 120 AT IL ROUTE 134 DELETED
36 37		-I <del>L-ROUTE-120-AT-HAINSVILLE-ROAD</del>
38	6615 7080	IL ROUTE 132 (GRAND AVENUE) AT DEEP LAKE ROAD
		IL ROUTE 120 (BELVEDERE ROAD) AT DARRELL ROAD
40		US ROUTE 45 AT SAND LAKE ROAD/STEARNS SCHOOL ROAD
41	7075	IL ROUTE 132 (GRAND AVENUE) AT GRANADA BLVD. /LINDENHURST DR.
	7048	IL ROUTE 173 AT HUNT CLUB ROAD
43	21 755	US ROUTE 45 AT GRASS LAKE ROAD
44	21 756	US ROUTE 45 AT MILLBURN ROAD
45	6908	IL ROUTE 60 AT CEDAR LAKE ROAD
46		IL ROUTE 134 AT FAIRFIELD ROAD
47	21625	IL ROUTE 134 AT HART ROAD
48		IL ROUTE 120 AT WILSON ROAD
49		IL ROUTE 83 AT BRIGHTON LANE/GRAYSLAKE HIGH SCHOOL
50 51	21 991	IL ROUTE 83 AT MILLSTONE DRIVE/HOME DEPOT  THE ROUTE 83 AT HOOK DRIVE/OLD ROLEINS ROAD DELETED
52	6690	US ROUT 45 AT ROLLINS ROAD
53	557	IL ROUTE 134 AT WILSON ROAD
54	717	IL ROUTE 59 AT MONAVILLE ROAD
55	6840	IL ROUTE 59 AT IL ROUTE 132
56	6857	IL ROUTE 59 AT BEACH GROVE ROAD
57	6912	IL ROUTE 60 AT FAIRFIELD ROAD
58		IL ROUTE 59 AT WILSON ROAD/RIDGE AVENUE
59		IL ROUTE 120 AT FAIRFIELD ROAD
60	14016	IL ROUTE 21 AT NORTH FIRE STATION/ ADLER PARK

### **GENERAL NOTES:**

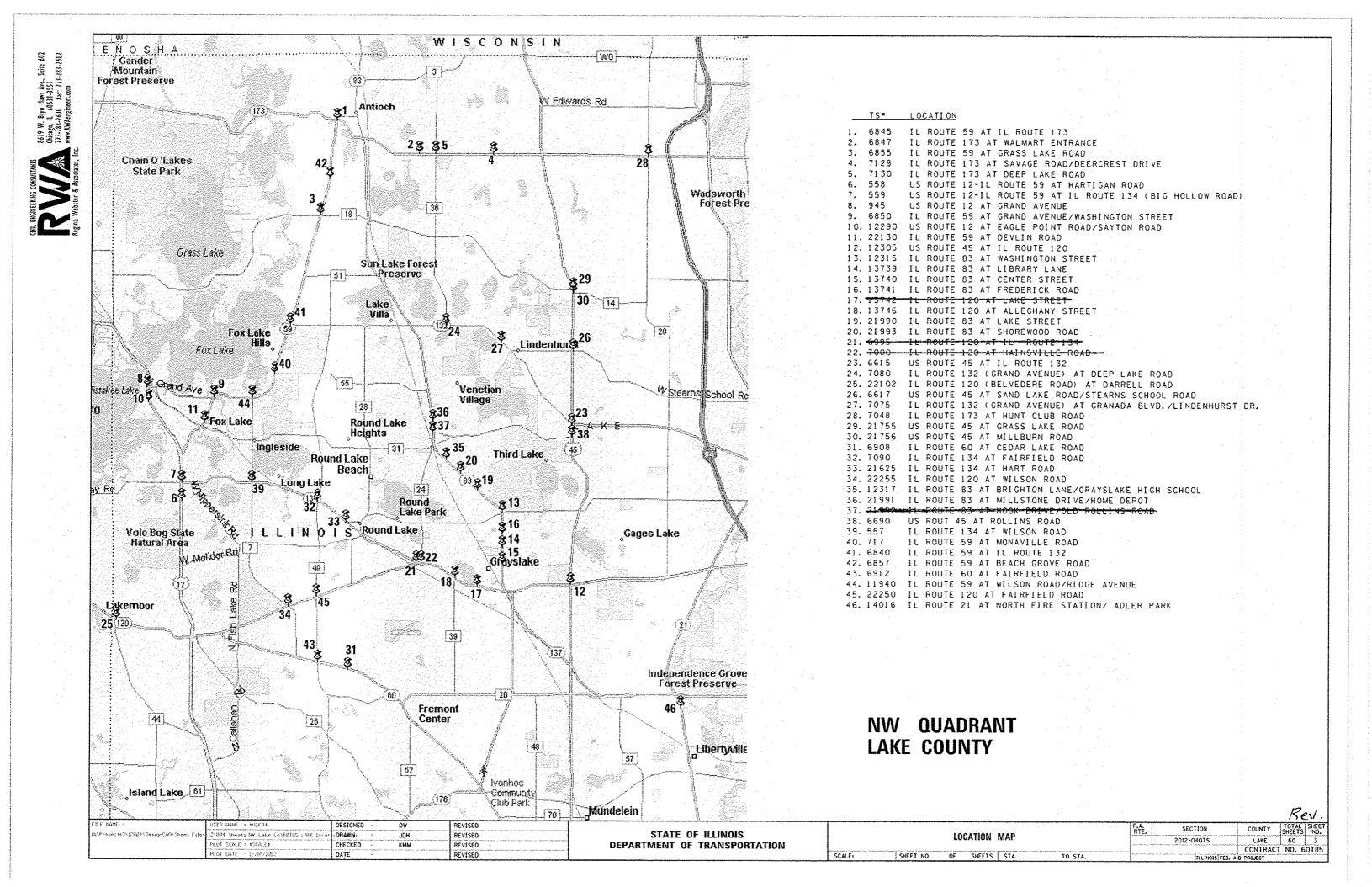
- I. CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEAD INTERSECTIONS OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING SIGNAL HEAD, LED, RETROFIT PAY ITEM OF THE TYPE AND NUMBER OF SIGNAL HEADS, FACES, AND SECTIONS AS SPECIFIED IN THE PLANS.
- 2. CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO A 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.
- 3. DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS, CONTRACTORSHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION, ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATION: 559 - US ROUTE 12-IL ROUTE 59 AT IL ROUTE 134 (BIG HOLLOW RD.)

VILLAGE OF FOX LAKE 66 THILLEN DRIVE FOX LAKE, IL 60020 847-587-2237 REDFLEX TRAFFIC SYSTEMS, INC. 23751 N. 23RD AVE, STE 150 PHOENIX, AZ 85085-1854 623-207-2000

- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING BOLT PATTERN ON EXISTING FOUNDATIONS THAT ARE SPECIFIED TO BE RE-USED.
- 5. ANY ADDITIONAL CABLE LENGTHS NECESSARY FOR THE PROPOER INSTALLATION OF AN UNINTERRUPTABLE 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 UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED PAY ITEM.
- 6.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- 7. 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 REDUIRED).
- 8. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND 100T.

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COLUMN NUMBER		INTERSECTION	STATE	LAKE	ANTIOCH	FOX	GRAYSLAKE	LAKE VILLA	LAKEMOOR	LINDENHURST	ROUND LAKE	ROUND LAKE BEACH	ANTIOCH TWP.	GRANT TWP.	LIBERTYVILLE
5	6845	IL ROUTE 59 AT IL ROUTE 173	97.5%		2.5%	1									
6	6847	IL ROUTE 173 AT WALMART ENTRANCE	96. 7%		3. 3%										
4	6855	IL ROUTE 59 AT GRASS LAKE ROAD	95%	5%											
7	7129	IL ROUTE 173 AT SAVAGE ROAD/DEERCREST DRIVE	95%		5%					i i					
4	7130	IL ROUTE 173 AT DEEP LAKE ROAD	95%	5%											
8	558	US ROUTE 12-1L ROUTE 59 AT HARTIGAN ROAD	95%			5%		-					,		
2	559	US ROUTE 12-16 ROUTE 59 AT 16 ROUTE 134 (BIG HOLLOW ROAD)	97.5%	2.5%											
8 .	945	US ROUTE 12 AT GRAND AVENUE	95%			5%									
8	6850	IL ROUTE 59 AT GRAND AVENUE/WASHINGTON STREET	95%			5%					<u> </u>				
8	12290	US ROUTE 12 AT EAGLE POINT ROAD/SAYTON ROAD	95%			5%									
8	22130	IL ROUTE 59 AT DEVLIN ROAD	95%			5%			L						
1	12305	US ROUTE 45 AT IL ROUTE 120	100%				·								
4	12315	IL ROUTE 83 AT WASHINGTON STREET	95%	5%				,	<u> </u>						
9	13739	IL ROUTE 83 AT LIBRARY LANE	96.7%				3, 3%								
11	13740	IL ROUTE 83 AT CENTER STREET	95%	2.5%		<u></u>	2, 5%		<u> </u>		<u> </u>				
9	13741	IL ROUTE 83 AT FREDERICK ROAD	96. 7%			L	3. 3%				<u> </u>				
11	13746	IL ROUTE 120 AT ALLEGHANY STREET	95%	2, 5%		<u> </u>	2.5%		<u> </u>						
10	21990	IL ROUTE 83 AT LAKE STREET	95%			<u> </u>	5%								
10	21993	IL ROUTE 83 AT SHOREWOOD ROAD	95%				5%				<u> </u>				
1	6615	US ROUTE 45 AT IL ROUTE 132	100%						<u> </u>						
13	7080	IL ROUTE 132 (GRAND AVENUE) AT DEEP LAKE ROAD	95%	2.5%		<u> </u>		2.5%	<u> </u>						
14	22102	IL ROUTE 120 (BELYEDERE ROAD) AT DARRELL ROAD	95%	2.5%	<u> </u>				2, 5%		ļ	<u> </u>			
4	6617	US ROUTE 45 AT SAND LAKE ROAD/STEARNS SCHOOL ROAD	95%	5%		<u> </u>									
15	7075	1L ROUTE 132 (GRAND AVENUE) AT GRANADA BLVD./LINDENHURST DR.	95%	2.5%						2.5%					
4	7048	IL ROUTE 173 AT HUNT CLUB ROAD	95%	5%											
3	21755	US ROUTE 45 AT GRASS LAKE ROAD	96. 7%	3. 3%											
3	21756	US ROUTE 45 AT MILLBURN ROAD	96. 7%	3. 3%							<u> </u>				
_22	6908	IL ROUTE 60 AT CEDAR LAKE ROAD	95%	2.5%							<b>Z.</b> 5%				· · · · · · · · · · · · · · · · · · ·
4	7090	IL ROUTE 134 AT FAIRFIELD ROAD	95%	5%									· · ·		
16	21625	IL ROUTE 134 AT HART ROAD	95%								5%		, , , , , , , , , , , , , , , , , , , ,		
4 .	22255	IL ROUTE 120 AT WILSON ROAD	95%	5%							<b></b>				
17	12317	IL ROUTE 83 AT BRIGHTON LANE/GRAYSLAKE HIGH SCHOOL	95%									5%			
	21991	IL ROUTE 83 AT MILLSTONE DRIVE/HOME DEPOT	95%		<u></u>	ļ		·				5%			
4	6690	US ROUTE 45 AT ROLLINS ROAD	95%	5%											
4	557	IL ROUTE 134 AT WILSON ROAD	95%	5%		ļ			-		<u> </u>	ļ			
3	717	IL ROUTE 59 AT MONAVILLE ROAD	96, 7%	3, 3%		ļ									
1	6840	IL ROUTE 59 AT IL ROUTE 132	100%			ļ								ļ	
	6857	IL ROUTE 59 AT BEACH GROVE ROAD	95%										5%		
	6912	JE ROUTE 60 AT FAIRFIELD ROAD	95%	5%	· 							ļ			
20	11940	IL ROUTE 59 AT WILSON ROAD/RIDGE AVENUE	95%	2, 5%					ļ					2, 5%	
4	22250	IL ROUTE 120 AT FAIRFIELD ROAD	95%	5%											
21	14016	IL ROUTE 21 AT NORTH FIRE STATION/ ADLER PARK	95%			<u> </u>			L		L			L	5%

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CINIL ENGINEERING CONSULTANTS

8619 W. Bryn Hawr Are., Snite 602

Chicago, IL 60631-3551

Chicago, IL 60631-3551

Thi-383-1400 Fax: 713-283-2682

Regina Webster & Associates, Inc.

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1028200	UNDERGROUND CONDUIT. GALVANIZED STEEL, 2" DIA.	FOOT	10									10	***************************************												
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6400100	TRANSCEIVER - FIBER OPTIC	EACH	2			- The second sec			4	2														***************************************	
7502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH:	2	-			1			1															
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7502490	TRAFFIC SIGNAL POST. GALVANIZED STEEL 15 FT.	EACH	1	<u> </u>						ľ		-									-				
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7502500	TRAFFIC SIGNAL POST. GALVANIZED STEEL 16 FT.	EACH	1						_			_		-			1								
7502520	TRAFFIC SIGNAL POST. GALVANIZED STEEL 18 FT.	EACH	-1				1												-	_					_
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7900200	DRILL EXISTING HANDHOLE	EACH	- 1			_						1	_												
8030020	SIGNAL HEAD. LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15				3			5		_			3		4								
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8030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	12	***************************************			3 1		WATER STREET	l		***************************************		_	2	-							$\downarrow \downarrow$		_
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3030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	3	***************************************			2					***************************************			1					_				-	$\bot$
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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8619 W. Brp. Haw Ave., Suite 602 Chicago, N. 60631-3551 773-283-2600 Fax: 773-283-2602 www.RWkengineers.com
CML ENGINEERING CONFULIANTS 80 TO

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88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED																						
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88030100	SIGNAL HEAD, LED. 1-FACE. 5-SECTION. BRACKET MOUNTED	· .			_																		
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	13				4		3					2		4							
88030110	SIGNAL HEAD, LED. 1-PACE, 5-SECTION, MAST AND INCOME															-						<u> </u>	
	SIGNAL HEAD. LED. 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	. 2						2													<u> </u>	1
88030210	SIGNAL HEAD. LED. 2-FACE, 3 SECTION, S.M.S.																					<b> - </b> -	1
00020020	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	3						2					1						_		<u> </u>	1
88030230	SIGNAL HEAD, ELD. 2 (ACC. ) 5 CC.																			_		<b> </b>  -	1
0030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH.	. 4				4									_		_			_	-	
88030240	STORAL READ, ELD. E. M. S.														-								+
B803031	SIGNAL HEAD, LED. 3-FACE. 3-SECTION, BRACKET MOUNTED	EACH	1						1		-						11			_			-
8803031											_	1-1-					1		-	$\dashv$		-	-
8803032	SIGNAL HEAD. LED. 3-FACE. 1-3 SECTION. 1-4 SECTION. 1-5 SECTION BRACKET MOUNTED	EACH	1						1							_	1-1						
0003032									_				_				1-1		-			-	
	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4				-		2					2			-	_				++	-
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8805517	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2	-			_							2			-		-				
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8805519	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	_		_	_					-	_	2		_	44	_	-	_		++	-
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8805520	OPTICALLY PROGRAMMED SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2	-				-	2	1-1	_	11	_	-				_	+				
				_		_	_ -		_					+	-	-		-	+		<del></del>		
8806042	COMBINATION SIGNAL HEAD, LED. 3-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 2-3 SECTION. BRACKET MOUNTED	DEACH	2		-		-		2	-	-	-			$\left  \cdot \right $	+	-				<del>                                     </del>	1	+
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881027	7 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE. BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	26	_	-	4	2	2	2	2	2 4	4	$\vdash \vdash$	-	2	4	4 2					1-1	-
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88102747	PEDESTRIAN SIGNAL HEAD. LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	12		1				1	1	4	4			. 1									
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88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	32			5	4		7				8		***************************************		8							
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88500100	INDUCTIVE LOOP DETECTOR	EACH	21	***************************************					21															
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88800100	PEDESTRIAN PUSH-BUTTON	EACH	35		2	2		2	13	2 4	1 4						4	2						
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89100400	ILLUMINATED SIGN, LED	EACH	8			4								4										
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89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	37	3	1 1	1 1	1	1 1	3	2 2	1	1	1	1 /	2	1	1	1 (						
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89502375	REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT	EACH	20	-	2	2	1	1	4	.1 2	2 2	1	1		1		1	1						
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X0326310	RELOCATE EXISTING SWITCH (SPECIAL)	EACH	2						2															
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X0327406	RELOCATE EXISTING VIDEO ENCODER. SPECIAL	EACH	2	_					2															
x8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2						2		_		_					ļ						
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x8620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	1 .								1													
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x8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	38	3	1 1	11	1	1 1	5	2 2		1	1	1 1	2	1	1	1						
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X8803040	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	17	5		12		_					_					-				_		
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X8803051	SIGNAL HEAD, LED. 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	2	2	_		-				-		NAMES AND ADDRESS OF THE PARTY		-		-			_			1-1	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

(SHEET 4 OF 5)

SCALE: | SHEET NO. OF SHEETS | STA. YO STA.

F.A. SECTION COUNTY TOTAL SHEET NO. 2012-040TS LAKE 60 7 CONTRACT NO. 60T85

CONSTRUCTION CODE

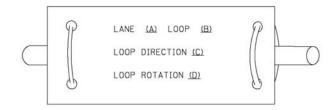
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X8803082 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	5					3		1					1					
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X8803084 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	42	7	20			3		5	4				3					
X8803086 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED, RETROFIT	EACH	6		6															- advantage
		T Q				***************************************			***************************************							4444			
X8803088 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	40	9	20		4	1		3	4				3		***************************************			
X8803090 SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2					2												 
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X8803210 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	19		8			1		3	4				3					
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X8803280 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED, RETROFIT	EACH	8		8												-			
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X8803910 SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT	EACH	1	1				-												
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X8880015 PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	17		3				3	4 4			3	***************************************						
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		PLOT SCALE 4 48,8888 1/ in.	CHECKED -	KNM	REVISED -	-	DEPARTMENT OF TRANSPORTATION			(SHEET 5 OF 5)		1		CONTRAC	T NO.	60185
-		PLOT DATE > 1/9/2013	DATE -		REVISED -			SCALE:	SHEET NO.	OF SHEETS STA.	TO STA.		ILLINOIS F	ED. AID PROJECT		

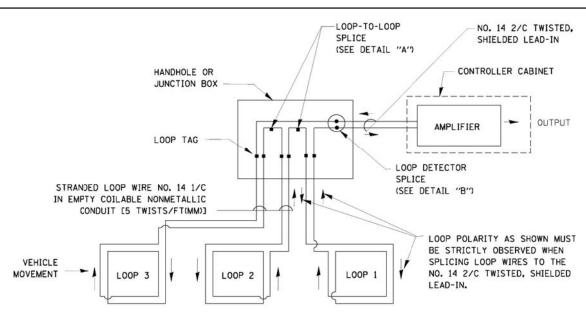
### LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

### LOOP LEAD-IN CABLE TAG

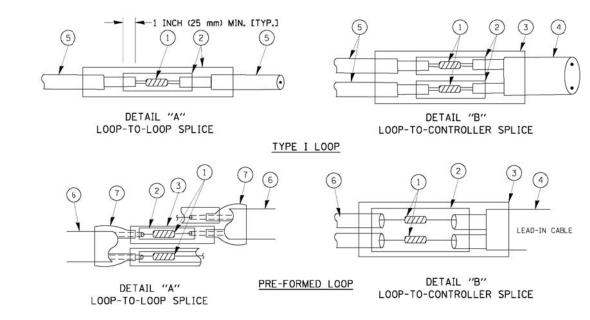


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



### DETECTOR LOOP WIRING SCHEMATIC

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



### LOOP DETECTOR SPLICE

- UNESTERN 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) NC. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- TL POLYOLEFIN 2 CONDUCTOR
  BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

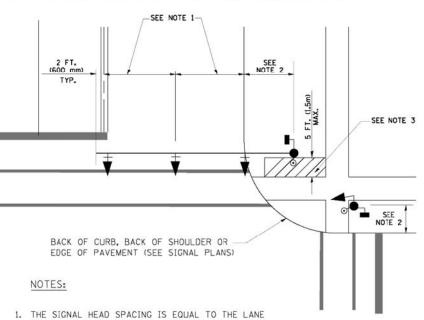
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STATI	E OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DISTRICT O	NE – STANDAI	D TDAEEL	CICNIAL D	ESIGN DETAILS		2012-040TS	LAKE	60	9
טוטוחוטו ט	INE - STAINDAI	U INAFFIC	SIGNAL D	ESIGN DETAILS			CONTRACT	NO. 6	OT85
SCALE: N.T.S.	SHEET NO. 1 OF	6 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

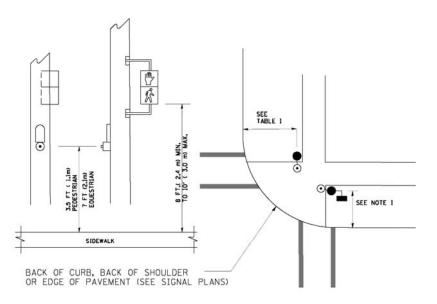
### TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



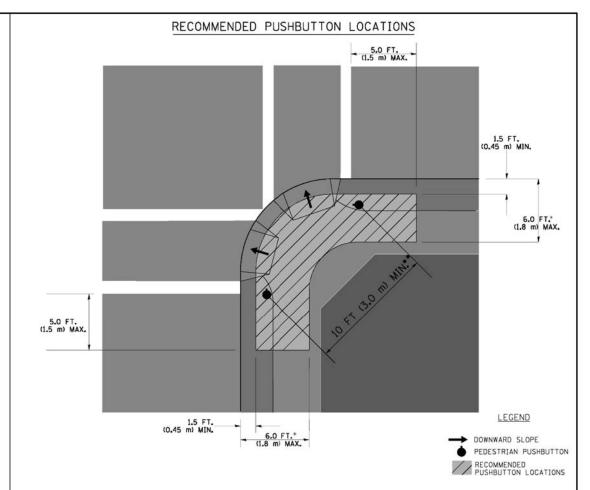
- WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF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

### PEDESTRIAN SIGNAL POST PEDESTRIAN PUSH BUTTON POST



### NOTES:

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



- 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:

- 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.
- 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.
- 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.
- 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.
- . 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

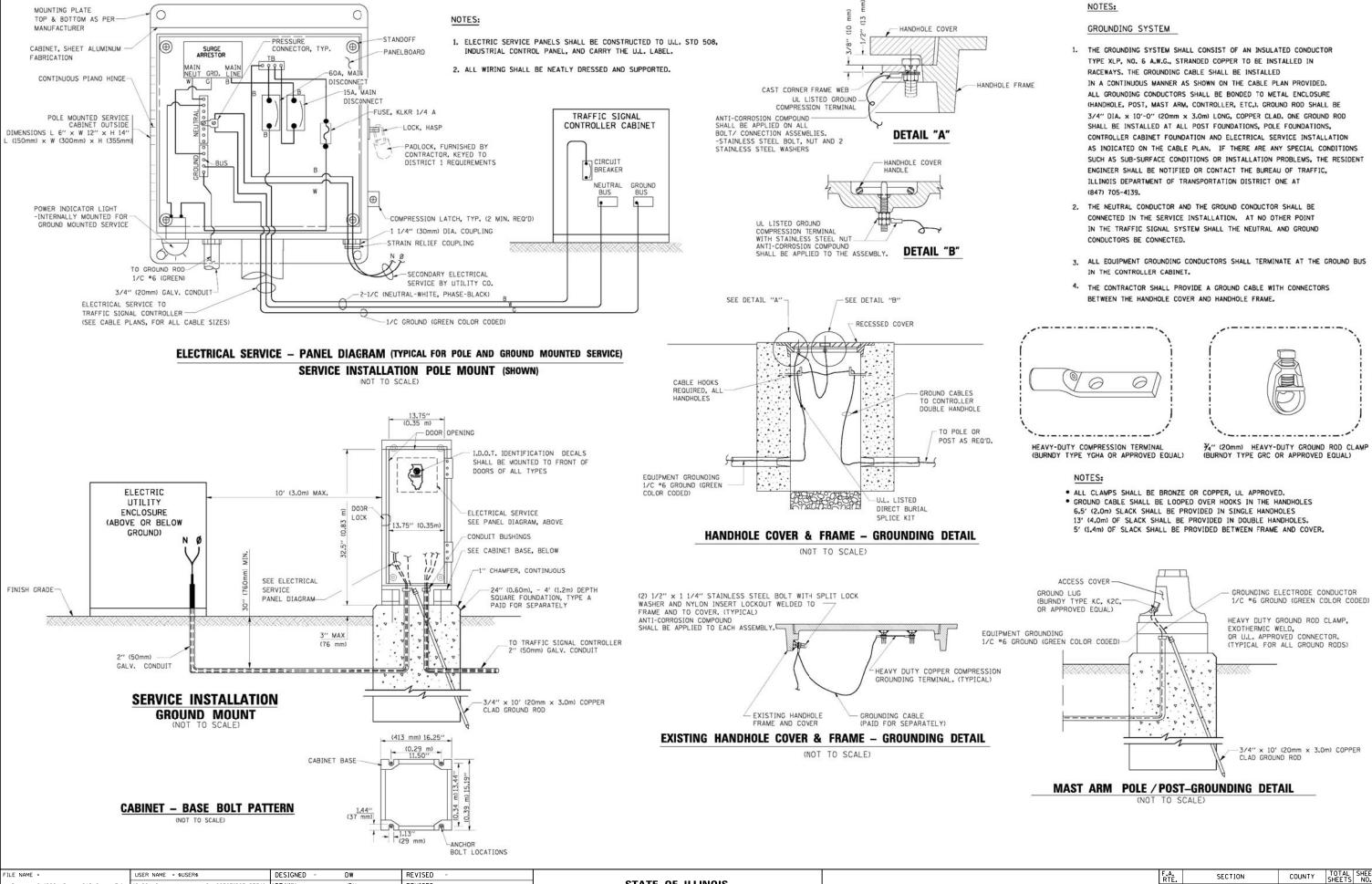
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COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
	(MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)  6 FT (1.8m)  4 FT (1.2m)  4 FT (1.2m)  4 FT (1.2m)  6 FT (1.8m)  6 FT (1.8m)  6 FT (1.8m)

### NOTES:

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

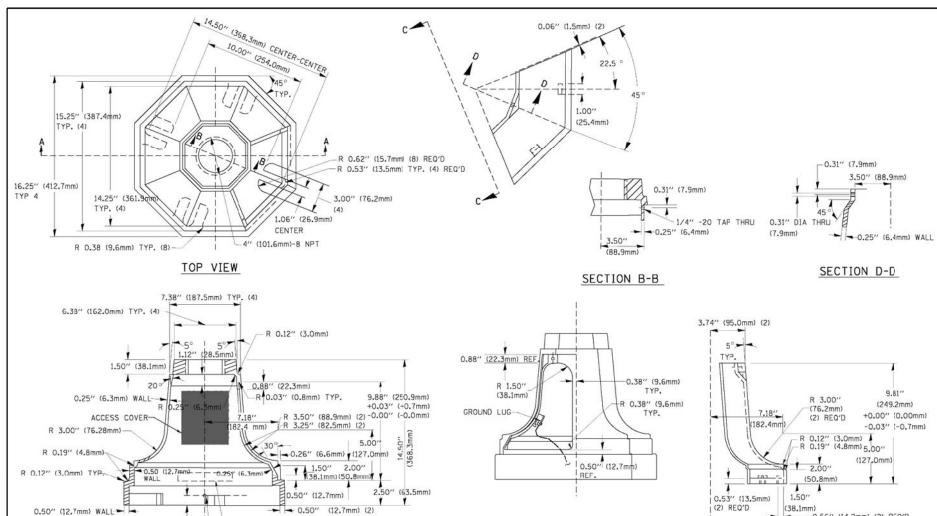
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	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. 2 OF 6 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	-

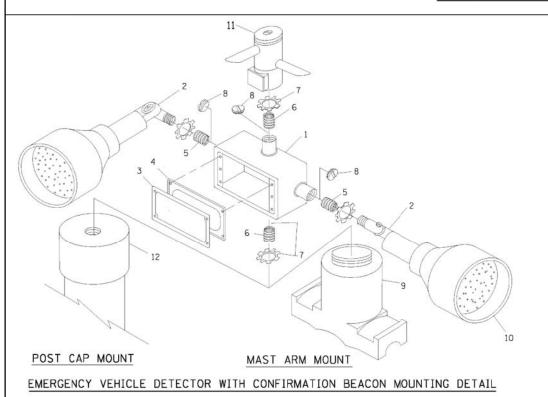




STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\60T85IDOT DETAIL BRAWN JDH REVISED 2012-040TS LAKE 60 DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS CHECKED KMM REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60T85 SHEET NO. 3 OF 6 SHEETS STA. PLOT DATE = 12/10/2012 DATE REVISED







CAST IN 1/8" (3.0mm) HIGH CHARACTERS

NAME OF COUNTRY OF ORIGIN

-1/4"-20 TAP THRU

1.00" (25.4mm)

SECTION A-A

ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU.IN, (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

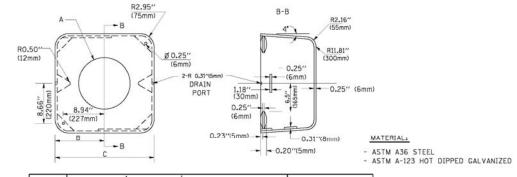
- 0.56" (14.2mm) (2) REQ'D

### NOTES:

VIEW C-C

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

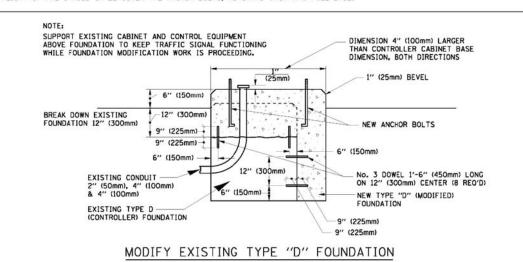
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS "2 AND "11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM \*9 SHALL NOT BE REQUIRED.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

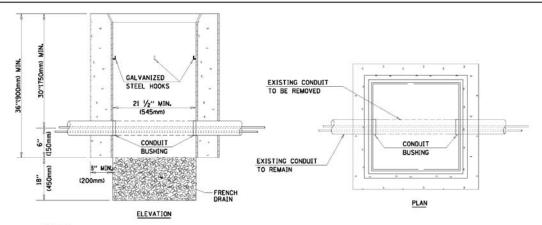


Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

### SHROUD

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



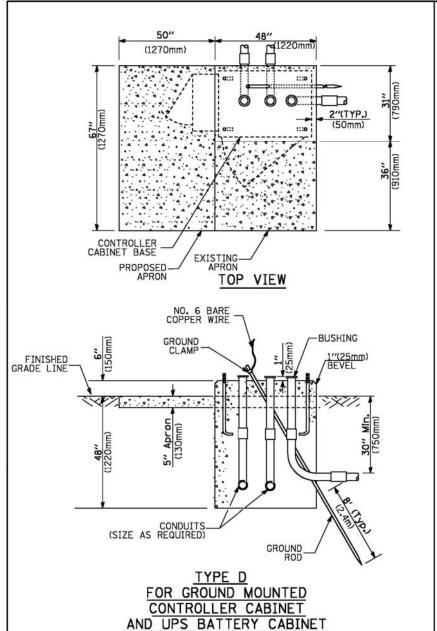


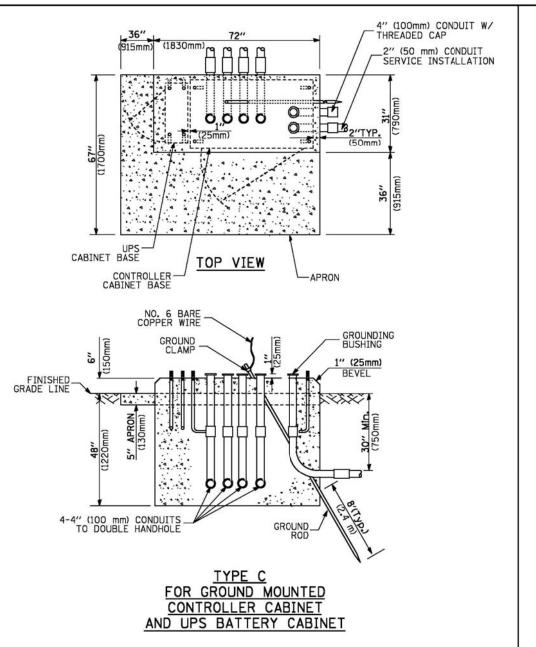
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

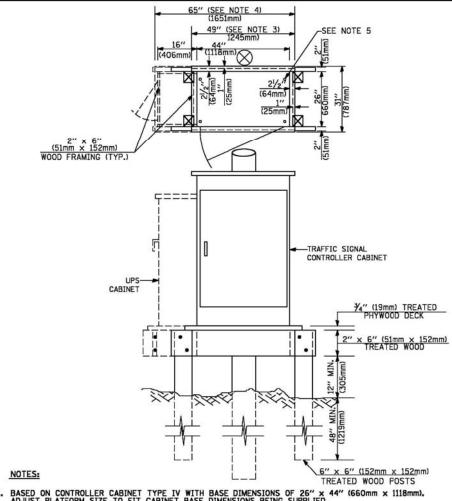
### HANDHOLE TO INTERCEPT EXISTING CONDUIT

								27							
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -							F.A.	SECTION	COUNTY	TOTAL S SHEETS	HEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\60T85IDOT DETAIL	-4DR§AWN -	JDH	REVISED -	STATE OF ILLINOIS	D.0.				NON DETAILS	1,1,1,2	2012-040TS	LAKE	60	12
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	ופוע	TRICT ONE – STAN	IDAKD IKAFFIC	SIGNAL DES	SIGN DETAILS			CONTRAC	T NO. 60	T85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T	SHEET NO. 4	OF 6 SHEETS	STA.	TO STA.		ILLINOIS FED.	. AID PROJECT		









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

### TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

### VERTICAL CABLE LENGTH

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

### DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

### NOTES:

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

### DEPTH OF MAST ARM FOUNDATIONS, TYPE E

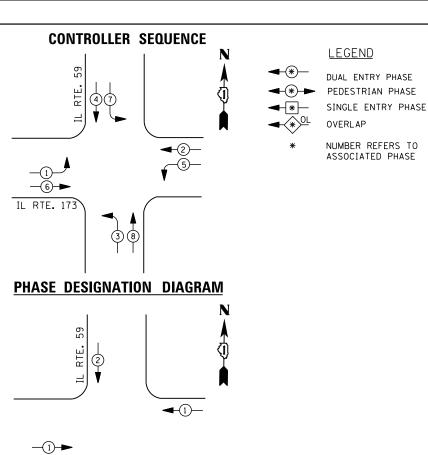
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -						F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet File	12-004 Sheets NW Lake Co\60T85 IDOT DETAI	L_BRAWN -	JDH	REVISED -	STATE OF ILLINOIS	DIOTRICT	ONE OTANDARD TRAFFIC	OLONIAL DEGLON	DETAILO		2012-040TS	LAKE	60	13
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	DISTRICT	ONE – STANDARD TRAFFIC	SIGNAL DESIGN	DETAILS			CONTRAC	T NO. 6	0185ء
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. 5 OF 6 SHEETS	STA. TO	STA.		ILLINOIS FED.	. AID PROJECT		

## CIVIL ENGINEERING CONSULTANTS 8619 W. Bryn Mawr Ave., Suite 602 Chicago, IL 60631-3551 773-883-2600 Ras: 773-283-2602 www.RWAengineers.com Regina Webster & Associates, Inc.

### TRAFFIC SIGNAL LEGEND

FILE NAME = N:\Projects3\12004\DesignCAD\Sheet File:	USER NAME = \$USER\$ 12-004 Sheets NW Lake Co\6 PLOT SCALE = \$SCALE\$	60185 IDOT DETAIL . 6.R	SIGNED - DW  AMIN - JDH  HECKED - KMM	REVISED REVISED REVISED	STATE DEPARTMENT	OF ILLINOIS		nie	STRICT ONE – STANDARD TRAFFIC SIGNAL DESIGN DET/	F.A. RTE.	SECTION 2012-040TS	COUNTY TOTAL SHE SHEETS NO
WIRELESS ACCESS POINT		R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				3333000		· u ·	
WIRELESS DETECTOR SENSOR		RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		,	_	CROSSBUCK		<del>202</del>	*
PAN, TILT, ZOOM CAMERA			PT	PIII O	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,				CROSSING GATE		X <del>0</del> X>	<del>X0</del> X
		R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL	2	X <del>o</del> X	X <del>OX</del>
VIDEO DETECTION ZONE		<u>``</u>			RADIO INTERCONNECT	<del>    </del> 0	###0	<del>   +•</del>	RAILROAD CONTROL CABINET	7	XOX X	
VIDEO DETECTION CAMERA		R [V]]	[V]	<b>V</b>	SYMBOL, WITH COUNTDOWN TIMER	ı. R			RAILROAD CONTROL CABINET		EXISTING	PROPOSED
MICROWAVE VEHICLE SENSOR		R [M]]	<u>M</u> 1	<b>₩</b>	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL		(C) C	<u>₽</u> C				DDODOGEO
PREFORMED DETECTOR LOOP			P	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		<b>(</b>	*	RAILROAD	SYMBO	DLS	
DETECTOR LOOP, TYPE I					INTERNATIONAL SYMBOL, OUTLINED			_	PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS
ILLUMINATED SIGN "NO RIGHT TURN"		R R			WALK/DON'T WALK SYMBOL  12" (300mm) PEDESTRIAN SIGNAL HEAD		(M)		(SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN "NO LEFT TURN"		R		$\odot$	12" (300mm) PEDESTRIAN SIGNAL HEAD			"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT PREFORMED INTERSECTION AND SAMPLING	OR		in c
ACCESSIBLE PEDESTRIAN PUS	HBUTTON DETECTOR	R	<pre> @APS</pre>	APS  O  APS  APS			(P)	<b>4</b> G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		[PP]	
PEDESTRIAN PUSHBUTTON DE	FECTOR	R	<b>©</b>	<b>©</b>	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			G	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR	Р	
PEDESTRIAN SIGNAL HEAD		R -□	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		S	S
(S DENOTES SOLAR POWER)		O-⊠''F''	O- <b>(&gt;</b> "F"	<b>●→</b> "F"			<b>€</b> 5		INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SIGNAL HEAD OPTICALLY PRO FLASHER INSTALLATION	GRAMMED	R →□>''P''	— <b>&gt;</b> ′′P′′	<b>-►</b> "P"	SIGNAL FACE		(G)	G ← Y ← G	TO BE REMOVED	RMF O		
SIGNAL HEAD WITH BACKPLAT		+R	+1>	+-			R	R	FOUNDATION TO BE REMOVED  SIGNAL POST AND FOUNDATION	Duc		
SIGNAL HEAD CONSTRUCTION NUMBERS INDICATE THE CON				<b>→</b> <sup>2</sup>	YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O-X		
SIGNAL HEAD		R ⊢⇔	>	-	12" (300mm) RED WITH 8" (200mm)		R		FOUNDATION TO BE REMOVED	C RMF		
GUY WIRE		R	>-	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED  ALUMINUM MAST ARM POLE AND	RMF		
TEMPORARY WOOD POLE (CLA BETTER) 45 FOOT (13.7m) MII		R⊗	$\otimes$	•	RELOCATE ITEM  ABANDON ITEM	KL A			STEEL MAST ARM POLE AND	RMF		
SIGNAL POST		RO	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL COMBINATION MAST AN ASSEMBLY AND POLE WITH P	RM TZ CAMERA	R PTA	PT	PI	INTERSECTION ITEM		I	IP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			c∥ <b>⊢</b> •
STEEL COMBINATION MAST A ASSEMBLY AND POLE WITH L		<sup>R</sup> O¤	0-¤	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		S	CNC S	GROUND ROD AT (C) CONTROLLER,		C	Cu
ALUMINUM MAST ARM ASSEME	LY AND POLE	R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		<del>-</del>	
(P) POLE OR (G) GROUND MOL			<u> </u>	•——	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R			NO. 62.5/125, MM12F SM12F		<u> </u>	—(24F)—
TELEPHONE CONNECTION	NT	R	P	P T	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				NO. 62.5/125, MM12F FIBER OPTIC CABLE		-/	
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOL	NT	- <u> </u>	P	- <b>■</b> P	JUNCTION BOX	R 🔘		•	FIBER OPTIC CABLE		<u></u>	C
JNINTERRUPTIBLE POWER SUF		R UPS	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		<u>_6</u> _	<u>—6</u> —
MASTER CONTROLLER			EMC EMMC	MC MMC	HEAVY DUTY HANDHOLE	R	Н	H	VENDOR CABLE FOR CAMERA			
COMMUNICATIONS CABINET MASTER CONTROLLER		ccr	E C C	СС	HANDHOLE	R □			COANTAL CABLE			
RAILROAD CONTROL CABINET				R►∢R	CONFIRMATION BEACON	R <sub>0</sub> →0	0-0		COAXIAL CABLE		_<	—©—
CONTROLLER CABINET		$\bowtie^{R}$	$\bowtie$		EMERGENCY VEHICLE LIGHT DETECTOR	R≪	$\otimes$	<b>~</b>	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
<u>ITEM</u>												





### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2		
MOVEMENT	<del></del>	<b> </b>		

IL RTE. 173

ENERGY COSTS-

ENERGY SUPPLY -

	TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL	SERVI CE	REQUIR	EMENTS							
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	13	1 35	17	0.50	111						
(YELLOW)	13	1 35	25	0.25	81						
( GREEN)	13	1 35	15	0.25	49						
ARROW	16	1 35	12	0.10	19						
PED. SIGNAL		90	25	1.00							
CONTROLLER	1	100	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00							
FLASHER LED											
				TOTAL =	360						

BILLED TO: IDOT DISTRICT 1

CONTACT TERRI BLECK

PLOT DATE = 12/10/2012

847-816-5239

PHONE

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

I. D. O. T.

### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

-NO. 6 GREEN

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

1 EACH SIGNAL HEAD, 3 - SECTION 4 EACH SIGNAL HEAD, 5 - SECTION

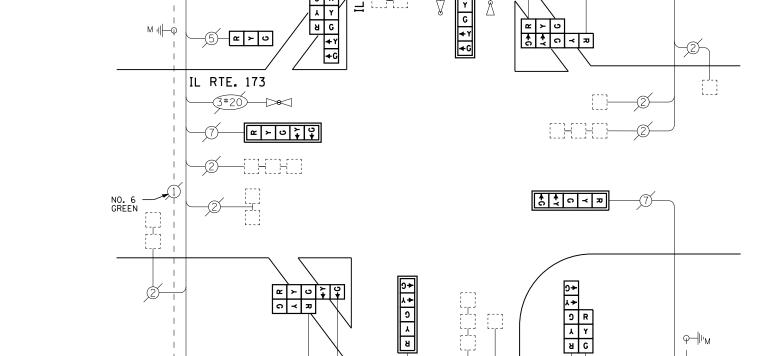
4 EACH SIGNAL HEAD, 2 - FACE, 1 - 3 SECTION, 1 - 5 SECTION

4 EACH TRAFFIC SIGNAL BACKPLATE

REVISED

DATE

TS# 6845 ANTIOCH



59

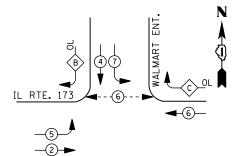
RTE.

### **CABLE PLAN**

NO. 6 GREEN







### **LEGEND**

DUAL ENTRY PHASE

PEDESTRIAN PHASE

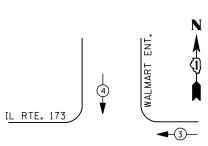
SINGLE ENTRY PHASE

OVERLAP

### NUMBER REFERS TO ASSOCIATED PHASE

### PHASE DESIGNATION DIAGRAM

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION
OVERL	_AP	PERMISS	IVE	PROTECTED
LETTE	R	PHASE		PHASE
В	=	4	+	5
С	=	6	+	7





ENERGY COSTS-

ENERGY SUPPLY -

### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	<b>—</b>	<b>1</b>						

		I. D. O									
	TRAFFIC S	I GNAL I	NSTALLA	TION							
	ELECTRICAL SERVICE REQUIREMENTS										
TYPE											
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	10	1 35	17	0.50	85						
(YELLOW)	10	1 35	25	0.25	63						
( GREEN)	10	1 35	15	0.25	38						
ARROW	8	1 35	12	0.10	10						
PED. SIGNAL	2	90	25	1.00	50						
CONTROLLER	1	100	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00							
FLASHER LED											
				TOTAL =	346						

BILLED TO: VILLAGE OF ANTIOCH

847-816-5239

CONTACT TERRI BLECK

PHONE

874 MAIN STREET
ANTIOCH, IL 60002

COMMONWEALTH EDISON

### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
QUANTITI	UNII	TIEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

INTERSECTION AND -SAMPLING (SYSTEM) DETECTOR (TYP.)

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

(E) (\$)

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

2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

GREEN

**CABLE PLAN** 

Ë

WALMART

**≫** •

NO. 6-GREEN

υ **Δ** 

TS# 6847 ANTIOCH

GREEN

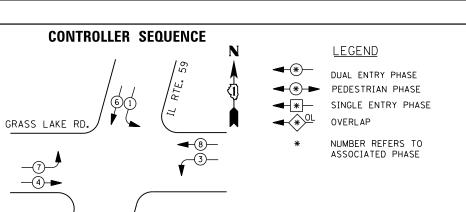
TRACER CABLE

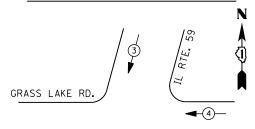
INTERCONNECT TO IL RTE. 173/ DEEP LAKE RD.

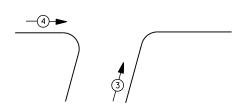
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FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 173 AT WALMART ENTRANCE	F.A.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\6847_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1,,,,,	2012-040TS	LAKE	60 16
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRAC	
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		TILL INDIS EED. AT	ID PROJECT	

IL RTE. 173









### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	3	4							
MOVEMENT		<b>+</b>							

		I. D. O	. т.								
TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	16	1 35	17	0.50	136						
(YELLOW)	16	1 35	25	0.25	100						
( GREEN)	16	1 35	15	0.25	60						
ARROW	16	1 35	12	0.10	19						
PED. SIGNAL		90	25	1.00							
CONTROLLER	1	1 00	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM	į	150	-	1.00							
FLASHER LED											
				TOTAL =	415						

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

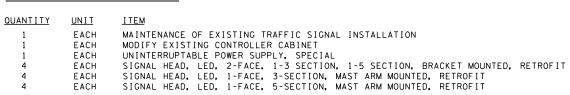
201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE 847-816-5239

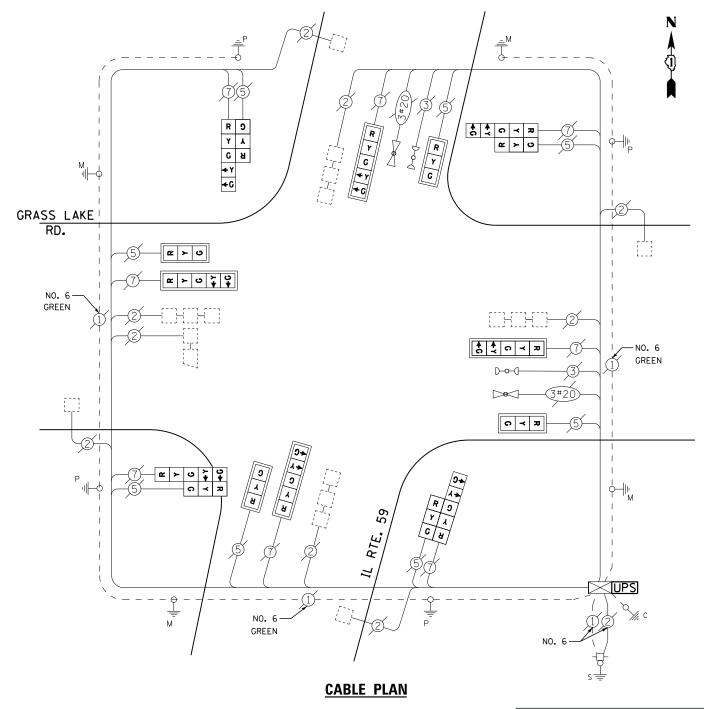
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES



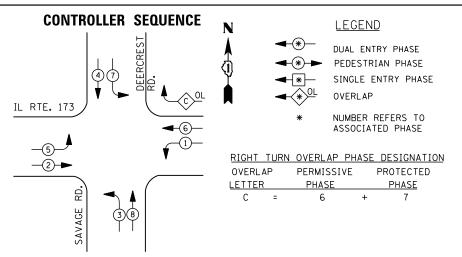
### TS# 6855 ANTIOCH

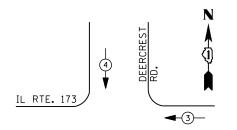
									Ai	WIN I TOCII
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 59 AT GRASS LAKE ROAD	F.A.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\6855_CAB_LAKE.dg	r DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	100	2012-040TS	LAKE	60 17
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				T NO. 60T85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	1	ILLINOIS FED. AIR		

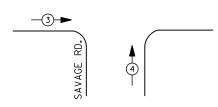


RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.









### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	<b>†</b> 1

I. D. O. T.											
TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	16	1 35	1 7	0.50	136						
(YELLOW)	16	1 35	25	0.25	100						
( GREEN)	16	1 35	15	0.25	60						
ARROW	20	1 35	12	0.10	24						
PED. SIGNAL		90	25	1.00							
CONTROLLER	1	100	100	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM	1	150	ı	1.00	1						
FLASHER LED											
				TOTAL =	420						

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: VILLAGE OF ANTIOCH

874 MAIN STREET ANTIOCH, IL 60002

CONTACT TERRI BLECK

PHONE 847-816-5239

COMMONWEALTH EDISON

### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u> EACH

EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS#	7129
ANTI	

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 173 AT SAVAGE ROAD /DEERCREST DRIVE	F.A. RTE.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\07129_CAB_LAKE.dg		JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-040TS	LAKE 60 18
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	. AID PROJECT

IL RTE. 173

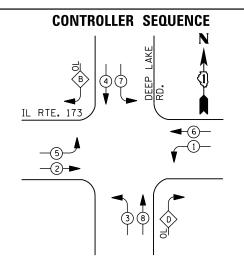
GREEN

DEERCREST

NO. 6 — GREEN

**CABLE PLAN** 





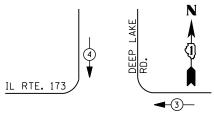
### <u>LEGEND</u>

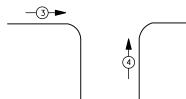
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION	ļ	
OVERLAP		PERMIS	SIVE	PROTECTED		
LETTER		PHASE		PHASE		
В	=	4	+	5		
D	=	8	+	1		

### PHASE DESIGNATION DIAGRAM





### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	3	4							
MOVEMENT	<del></del>	<b> </b>							

I. D. O. T.											
TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	14	1 35	17	0.50	119						
( YELLOW)	14	1 35	25	0.25	88						
( GREEN)	14	1 35	15	0.25	53						
ARROW	24	1 35	12	0.10	29						
PED. SIGNAL		90	25	1.00							
CONTROLLER	1	100	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM	1	150	-	1.00							
FLASHER LED											
				TOTAL =	389						

ENERGY COSTS-

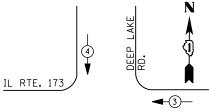
BILLED TO: IDOT DISTRICT 1

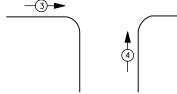
201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON





EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	3	4							
MOVEMENT	-								

### SCHEDULE OF QUANTITIES

**QUANTITY** <u>UNIT</u> <u>ITEM</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH MODIFY EXISTING CONTROLLER CABINET EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS# 7130 ANTIOCH

-INTERSECTION AND SAMPLING (SYSTEM) DETECTOR

-NO. 6

GREEN

R > G \( \forall \)

NO. 6 -GREEN

**CABLE PLAN** 

LAKE

DEEP LA

											1110011	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 173 AT DEEP LAKE ROAD	F.A.	SECTION	COUNTY	TOTAL SHEET	
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\7130_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1,112	2012-040TS	LAKE	60 19	
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT	NO. 60T85	
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.	$\overline{}$	ILL INOIS FED			

NO. 6 -GREEN

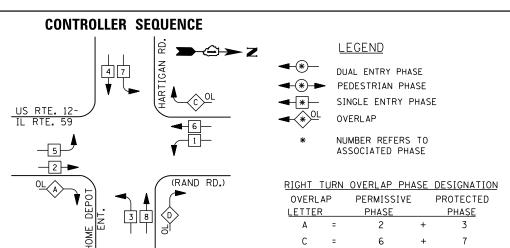
INTERCONNECT TO

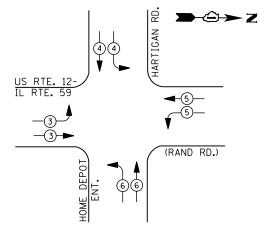
IL RTE. 173/ WALMART INTERSECTION

TRACER CABLE

IL RTE. 173







### EMERGENCY VEHICLE PREEMPTION SEQUENCE

TRAFFIC SIGNAL INSTALLATION							
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS			
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	20	1 35	1 7	0.50	170		
(YELLOW)	20	1 35	25	0.25	125		
( GREEN)	20	1 35	15	0.25	75		
ARROW	12	1 35	12	0.10	14		
PED. SIGNAL		90	25	1.00			
CONTROLLER	1	100	100	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00			
FLASHER LED							
				TOTAL =	484		

I. D. O. T.

ENERGY COSTS-

BILLED TO: VILLAGE OF FOX LAKE 66 THILLEN DRIVE

FOX LAKE, IL 60020

ENERGY SUPPLY -

CONTACT TERRI BLECK 847-816-5239 COMMONWEALTH EDISON **SCHEDULE OF QUANTITIES** 

<u>QUANTITY</u> <u>UNIT</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH EACH

> TS# 558 FOX LAKE

INTERCONNECT TO
IL RTE. 134

-EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

GREEN

TRACER CABLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			US ROUTE 12 – IL ROUTE 59 AT HARTIGAN ROAD	F.A.	SECTION	COUNTY	TOTAL	SHEET NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\00558_CAB_LAKE.d	nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1112	2012-040TS	LAKE	60	20
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. 60	JT85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

US RTE. 12-IL RTE. 59

					TIGAN ROAD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE						2012-040TS	LAKE	60	20	
	AND EIVIEI	NGENUT	VEHICLE P	KEEWIPTIU	N SEGUENCE			CONTRACT	NO. 6	OT85
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		
 							1221.1010 1221 11	D		

(RAND RD.)

HARTIGAN

GREEN

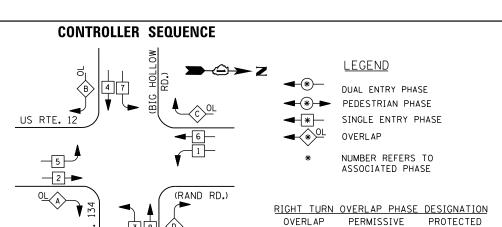
GREEN

**CABLE PLAN** 

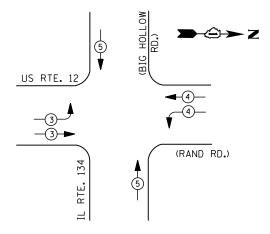
<u>_</u>	IVIENGENCT V	/ENIULE	FNEEIVI	<u> FIIUIN</u>	SEUUEIN	<u>U</u>
	ЕМЕ	RGENCY VE	HICLE PREE	MPTORS		
	EMERGENCY VEHICLE PREEMPTOR	3 4		5	6	
	MOVEMENT			<b>—</b>	1	

EXISTING INTERSECTION-AND SAMPLING (SYSTEM) DETECTORS





•				_		
비 부위 %	LETTER	₹	PHASE		PHASE	
۳ ۱ ۱ ۵ ا	Α	=	2	+	3	
ㄹ' '	В	=	4	+	5	
PHASE DESIGNATION DIAGRAM	С	=	6	+	7	
	D	=	8	+	1	



### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4	5		
MOVEMENT					

I. D. O. T.								
	TRAFFIC SIGNAL INSTALLATION							
ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	18	1 35	1 7	0.50	153			
(YELLOW)	18	1 35	25	0.25	113			
( GREEN)	18	1 35	15	0.25	68			
ARROW	24	1 35	12	0.10	29			
PED. SIGNAL		90	25	1.00				
CONTROLLER	1	100	100	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				
FLASHER LED								
1				TOTAL =	463			

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

FILE NAME =

CONTACT TERRI BLECK
PHONE 847-816-5239

USER NAME = \$USER\$

PLOT DATE = 12/10/2012

N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\00559\_CAB\_LAKE.dqnDRAWN

847-816-5239 COMMONWEALTH EDISON

DESIGNED -

CHECKED

DATE

DW

JDH

KMM

### SCHEDULE OF QUANTITIES

REVISED

REVISED

REVISED

REVISED

OUANTITY UNIT ITEM

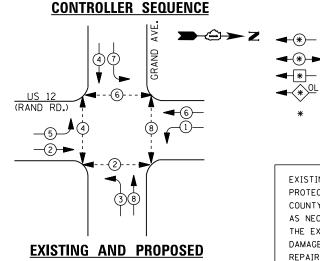
1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

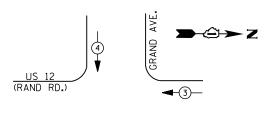
TS# 559 FOX LAKE

STATE OF ILLINOIS		US ROUTE 12 - IL ROUTE 59 AT IL ROUTE 134 (BIG HOLLOW ROAD)						SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCH	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE						2012-040TS	LAKE	60	21
		AND EIVIE	NUCIVUT		NECIVIE I IU				CONTRAC	T NO. 6	50T85
	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

	D - 1/1		<u>≓</u> M	<b>→</b> ⊕→Z
INTERCONNECT TO HARTIGAN RD.		NO. 6 GREEN		
	++++++++++++++++++++++++++++++++++++++			
TRACER CABLE	(BIG HO	R V G V •V		NO. 18 NO. 8
M   -0				NO. 10
	#20			CAT5
	3)—— 5)———————————————————————————————			
			( <b>EED</b> 5	ф Р 1 — CAT5
	2			NO. 6
			(RAND RD.)	
 			(R ½)+ (Y ¼+ (G ½)	
				NO. 6
	γ			QUPS ?
	M <sup>=</sup>	NO. 6 (2) GREEN [] HIH	P = CAT5	NO. 6
		CABLE PLAN	COAXIAL	Z
			F = CAM NO. 8	NO. 8 S







**-**3 → (4)

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE** 

EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	<b>←</b>	<b> </b>		

TRAFFIC SIGNAL INSTALLATION							
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS			
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	12	1 35	1 7	0.50	102		
(YELLOW)	12	1 35	25	0.25	75		
( GREEN)	12	1 35	15	0.25	45		
ARROW	16	1 35	12	0.10	19		
PED. SIGNAL	8	90	25	1.00	200		
CONTROLLER	1	100	1 00	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM	1	150	-	1.00	150		
FLASHER LED							
				TOTAL =	691		

I. D. O. T.

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: VILLAGE OF FOX LAKE

66 THILLEN DRIVE

FOX LAKE, IL 60020

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON **LEGEND** 

DUAL ENTRY PHASE

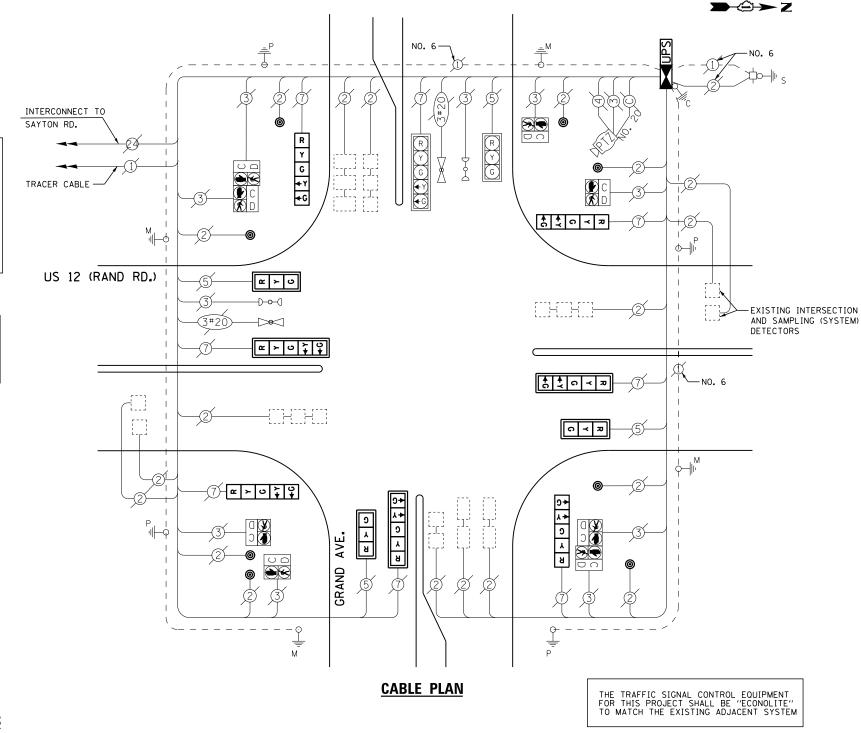
PEDESTRIAN PHASE SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

EXISTING FIBER OPTIC SPLICE BOX, POWER SUPPLIES, PTZ SURGE PROTECTORS, ALL NECESSARY WIRING/CABLES AND ANY ADDITIONAL LAKE COUNTY EQUIPMENT SHALL BE RELOCATED TO NEW CONTROLLER CABINET AS NECESSARY, OR AS DIRECTED BY THE ENGINEER IN ORDER TO MAINTAIN THE EXISTING INTERCONNECT SYSTEM. CARE SHOULD BE TAKEN TO NOT DAMAGE EXISTING FIBER OPTIC CABLE, SPLICES OR TERMINATIONS. REPAIR OF ANY DAMAGED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.

CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT TO A NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.



### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
11	EACH	INDUCTIVE LOOP DETECTOR
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	RELOCATE EXISTING SWITCH (SPECIAL)
1	EACH	RELOCATE EXISTING VIDEO ENCODER, SPECIAL
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

REMOVAL OF 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.

SIGNAL HEAD, 3 - SECTION SIGNAL HEAD, 5 - SECTION FACH FACH EACH PEDESTRI AN PUSH-BUTTON

TRAFFIC SIGNAL BACKPLATE EACH

CONTROLLER AND CABINET (COMPLETE) EACH

> TS# 945 FOX LAKE

										ON LANCE
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 12 AT GRAND AVENUE Schedule of Quantities, Cable Plan, Phase designation Diagram		SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	.12-004 Sheets NW Lake Co\00945_CAB_LAKE.dg	nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS			2012-040TS	LAKE	60 22
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. 60T85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID		



### CONTROLLER SEQUENCE

IL RIE. 59

**2** 

DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE
OUT OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION
OVERLAP PERMISSIVE PROTECTED
LETTER PHASE PHASE

### LEGEND

TYPE A CONCRETE FOUNDATION.

(2) REPLACE 15 FT. PAINTED POST. RE-USE EXISTING

2 REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

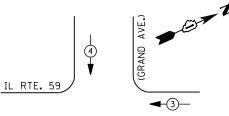
1 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING

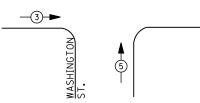
3 REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

### PHASE DESIGNATION DIAGRAM

4





### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY	VEHICLE I	PREEMPTOR	RS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	<b>—</b>	•	1

I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS WATTAGE % OPERATIONS TOTAL								
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	15	1 35	1 7	0.50	128				
(YELLOW)	15	1 35	25	0.25	94				
( GREEN)	19	1 35	15	0.25	71				
ARROW	4	1 35	12	0.10	5				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	1	150	ı	1.00	1				
	•								
FLASHER LED									

ENERGY COSTS
BILLED TO: VILLAGE OF FOX LAKE

66 THILLEN DRIVE

N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\06850\_CAB\_LAKE.do

ENERGY SUPPLY -

FILE NAME =

FOX LAKE, IL 60020

CONTACT TERRI BLECK
PHONE 847-816-5239

USER NAME = \$USER\$

PLOT DATE = 12/10/2012

COMMONWEALTH EDISON

TOTAL =

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

### SCHEDULE OF QUANTITIES

REVISED

REVISED

REVISED REVISED

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 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
3	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

### REMOVAL OF 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.

WASHINGTON

3 EACH SIGNAL HEAD, 1 - FACE, 3 - SECTION
1 EACH SIGNAL HEAD, 1 - FACE, 4 - SECTION
1 EACH SIGNAL HEAD, 1 - FACE, 5 - SECTION
2 EACH SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-4 SECTION
1 EACH SIGNAL HEAD, 3 - FACE, 1-3 SECTION, 1-4 SECTION, 1-5 SECTION
1 EACH SIGNAL HEAD, 3 - FACE, 3-3 SECTION
3 EACH TRAFFIC SIGNAL BACKPLATE

-NO. 6 GREEN

> G ◆G

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IL RTE. 59

2 EACH SIGNAL POST

NO. 6 -GREEN

**CABLE PLAN** 

H SIGNAL PUST

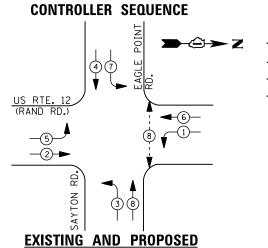
	-	850 AKE
OUNTY	TOTAL SHEETS	SHEET NO.
LAKE	60	23

-NO. 6

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

									1	OA L	AIL
IL ROUTE 59 AT GRAND AVENUE/WASHINGTON STREET								SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM								2012-040TS	LAKE	60	23
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE									CONTRAC	T NO. 6	8T0
SCALE:	N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		





### LEGEND

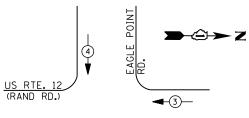
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

OVFRI AP

NUMBER REFERS TO ASSOCIATED PHASE

EXISTING AND PROPOSED
PHASE DESIGNATION DIAGRAM

\_3-►



EXISTING FIBER OPTIC SPLICE BOX, POWER SUPPLIES, PTZ SURGE PROTECTORS, ALL NECESSARY WIRING/CABLES AND ANY ADDITIONAL LAKE COUNTY EQUIPMENT SHALL BE RELOCATED TO NEW CONTROLLER CABINET AS NECESSARY, OR AS DIRECTED BY THE ENGINEER IN ORDER TO MAINTAIN THE EXISTING INTERCONNECT SYSTEM. CARE SHOULD BE TAKEN TO NOT DAMAGE EXISTING FIBER OPTIC CABLE, SPLICES OR TERMINATIONS. REPAIR OF ANY DAMAGED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.

4

EXISTING AND PROPOSED
EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>↓</b> ↑

I. D. O. T.

TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

PE NO. LAMPS WATTAGE % OPERATIONS TO INCAND. LED

( RED) 13 135 17 0.50

TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	13	1 35	17	0.50	111			
(YELLOW)	13	1 35	25	0.25	81			
( GREEN)	13	1 35	15	0.25	49			
ARROW	16	1 35	12	0.10	19			
PED. SIGNAL	2	90	25	1.00	50			
CONTROLLER	1	100	100	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM	1	150	-	1.00	150			
FLASHER LED								

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: VILLAGE OF FOX LAKE

66 THILLEN DRIVE

FOX LAKE, IL 60020

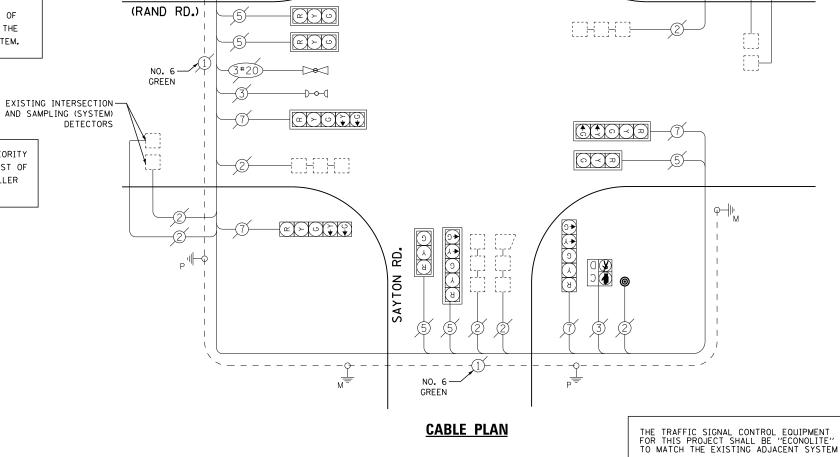
CONTACT TERRI BLECK
PHONE 847-816-5239

847-816-5239 COMMONWEALTH EDISON

TOTAL =

560

CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT TO A NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.



NO. 6

R.

POINT

EAGLE

### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
10	EACH	INDUCTIVE LOOP DETECTOR
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	RELOCATE EXISTING SWITCH (SPECIAL)
1	EACH	RELOCATE EXISTING VIDEO ENCODER, SPECIAL
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIA
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

### REMOVAL OF 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.

2 EACH PEDESTRIAN PUSH-BUTTON

1 EACH CONTROLLER AND CABINET (COMPLETE)

TS# 12290 FOX LAKE

INTERCONNECT TO GRAND AVE.

TRACER CABLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			US ROUTE	12 AT E/	AGLE POII	NT ROAD	SAYTON ROAD	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\12290_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		11.12	2012-040TS LAKE		60	24				
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE					CONTRAC	T NO. f	60T85			
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

ΑL

US RTE. 12



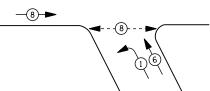


DEVLIN RD.

DUAL ENTRY PHASE PEDESTRIAN PHASE

**LEGEND** 

SINGLE ENTRY PHASE



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

EACH FACH EACH

PEDESTRIAN SIGNAL HEAD EACH

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

<u>UPS</u>

**2** ≻ ∪

### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	COMBINATION SIGNAL HEAD, LED, 3-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 2-3 SECTION, BRACKET MOUNTED
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
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
3	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

NO. 6 GREEN

DEVLIN RD.

SCALE: N.T.S.

TS# 22130 FOX LAKE

- NO. 6 GREEN

	PHONE	COMMONWEALTH EDISON	_				
FILE NAME =	USER NAME	= \$USER\$	DESIGNED	-	DW	REVISED	-
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Shee	ts NW Lake Co\22130_CAB_LAKE.dg	DRAWN	-	JDH	REVISED	-
	PLOT SCALE	= \$SCALE\$	CHECKED	-	KMM	REVISED	-
	DI OT DATE	- 12/10/2012	DATE	_		DEVICED	_

TOTAL =

470

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

								1 0	^ LA	- I
	-			EVLIN ROAD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM							2012-040TS	LAKE	60	25
	ANL	) PHAS	E DESIGNA	TION DIAGRA	AIVI	_		CONTRACT	NO. 6	OT85
	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

**CABLE PLAN** 

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

TRAFFIC SIGNAL BACKPLATE EACH

PEDESTRIAN PUSH-BUTTON

I. D. O. T. TRAFFIC SIGNAL INSTALLATION

ELECTRICAL SERVICE REQUIREMENTS WATTAGE % OPERATIONS TOTAL WATTAGE INCAND. LED SIGNAL (RED) 17 119 1 35 0.50 25 0.25 (YELLOW) 1 35 14 88 (GREEN) 14 1 35 15 0.25 53 ARROW 1 35 0.10 10 PED. SIGNAL 1.00 100 CONTROLLER 100 1 00 1.00 100 ILLUM. SIGN 252 0.05 VIDEO SYSTEM 1.00 150 --FLASHER LED

BILLED TO: VILLAGE OF FOX LAKE ENERGY COSTS-

ENERGY SUPPLY -

66 THILLEN DRIVE FOX LAKE, IL 60020

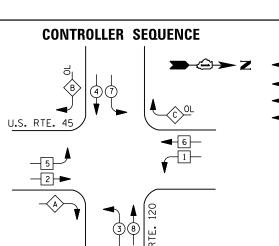
CONTACT TERRI BLECK

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM





### <u>LEGEND</u>

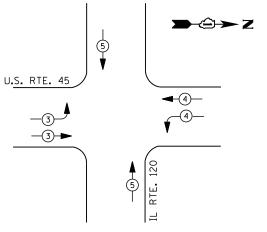
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERL	AΡ	PERMISSIVE		PROTECTED		DISPLAY
LETTER		PHASE		PHASE		PHASE
Α	=	2	+	3	-	2
В	=	4	+	5	-	4
С	=	6	+	7	_	6

### **PHASE DESIGNATION DIAGRAM**



### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENO	CY VEHICLI	E PREEMPTOR	RS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT		<b>—</b>	1

		I. D. 0	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUI R	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	18	1 35	1 7	0.50	153
(YELLOW)	18	1 35	25	0.25	113
( GREEN)	18	1 35	15	0.25	68
ARROW	20	1 35	12	0.10	24
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	1	150	ı	1.00	-
FLASHER LED					
				TOTAL =	458

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

### SCHEDULE OF QUANTITIES

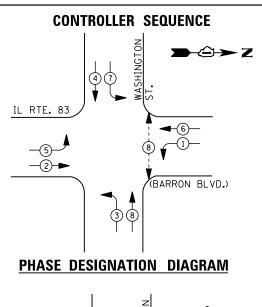
<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT

TS# 12305 GRAYSLAKE

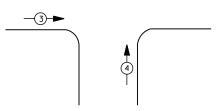
									ONATSEANE
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 45 AT IL ROUTE 120	F.A.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	.12-004 Sheets NW Lake Co\12305_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-040TS	LAKE 60 26
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILL INOIS FED	

P ( ) H ( ) NO. 6 M M M M M M M M M M M M M M M M M M	<b>→</b> ②→ Z
M	5 -   1/p
INTERSECTION AND SAMPLING (SYSTEM) DETECTORS  DO 3#2	\$\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
INTERCONNECT TO POLY ARBOR BLVD.  TRACER CABLE  US RTE. 45	INTERCONNECT TO CENTER ST./ DEERPATH RD.  TRACER CABLE
NO. 6  NO. 6  CABLE PLAN	RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D





### IL RTE. 83



### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEH	IICLE PREI	EMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	<del></del>	↓↑				

	I. D. O. T.					
	TRAFFIC SIGNAL INSTALLATION					
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS		
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL	
		INCAND.	LED		WATTAGE	
SIGNAL (RED)	16	1 35	17	0.50	136	
(YELLOW)	16	1 35	25	0.25	100	
( GREEN)	16	1 35	15	0.25	60	
ARROW	16	1 35	12	0.10	19	
PED. SIGNAL	2	90	25	1.00	50	
CONTROLLER	1	100	100	1.00	100	
ILLUM. SIGN		252	25	0.05		
VIDEO SYSTEM	1	150	-	1.00	150	
FLASHER LED						

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239

COMMONWEALTH EDISON

### INTERCONNECT TO LAKE ST. WASHINGTON -TRACER CABLE (BARRON BLVD.) EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS 3#20 GREEN EXISTING INTERSECTION— AND SAMPLING (SYSTEM) DETECTORS IL RTE. 83 INTERCONNECT TO FREDERICK STREET R Y O TRACER CABLE NO. 6 -GREEEN EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS **CABLE PLAN**

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

### SCHEDULE OF QUANTITIES

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

### REMOVAL OF 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 SIGNAL HEAD

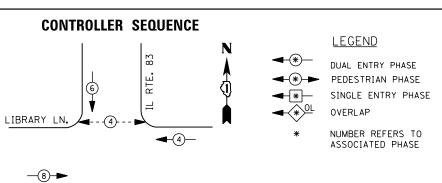
2 EACH PEDESTRIAN PUSH-BUTTON

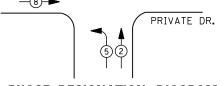
TS# 12315 GRAYSLAKE

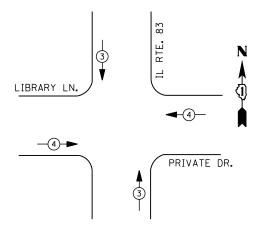
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FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			II RO	NITE 83	IIHPAW TA	NGTON STE	REET	F.A.	SECTION	COUNTY	TOTAL	. SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\12315_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHED	ULE OF QUANT	ITIES, CA	BLE PLAN,	PHASE DES	IGNATION DIAGRAM	RIE.	2012-040TS	LAKE	SHEETS 60	
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMER	GENCY V	EHICLE PRI	EEMPTION	SEQUENCE		2012 04013	CONTRAC		
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FEE	AID PROJECT	- 1101	30.00









### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	<b>←</b>

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	11	1 35	17	0.50	94					
(YELLOW)	11	1 35	25	0.25	69					
( GREEN)	11	1 35	15	0.25	41					
ARROW	4	1 35	12	0.10	5					
PED. SIGNAL	2	90	25	1.00	50					
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										

ENERGY COSTS-

BILLED TO: VILLAGE OF GRAYSLAKE

10 SOUTH SEYMOUR AVENUE GRAYSLAKE, ILLINOIS 60030

TOTAL =

359

CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239

COMMONWEALTH EDISON

### REMOVAL OF 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.

2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

### PRIVATE DR. (E) Y **CABLE PLAN** TRACER CABLE

∪ <u>0</u>

LIBRARY LN.

NO. 6-GREEN

NO. 6 GREEN

TRACER CABLE -

 $\bigcirc$ 

INTERCONNECT TO FREDERICK RD.

GREEN

### SCHEDULE OF QUANTITIES

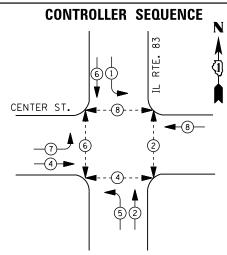
<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

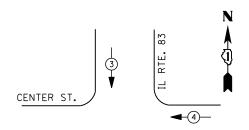
TS# 13739 GRAYSLAKE

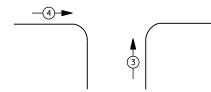
COUNTY TOTAL SHEETS NO.

LAKE 60 28 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW IL ROUTE 83 AT LIBRARY LANE SECTION STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\13739\_CAB\_LAKE.dg DRAWN JDH REVISED 2012-040TS **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T85 SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 12/10/2012 REVISED DATE









### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	<b>—</b>	<b>↓</b>	

I. D. O. T. TRAFFIC SIGNAL INSTALLATION

	ELECTRICAL	ELECTRICAL SERVICE REQUIREMENTS							
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	17	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
( GREEN)	12	1 35	15	0.25	45				
ARROW	12	1 35	12	0.10	14				
PED. SIGNAL	8	90	25	1.00	200				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	1	150	-	1.00	150				
FLASHER LED									

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

686

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239

COMMONWEALTH EDISON

### REMOVAL OF 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.

PEDESTRIAN SIGNAL HEAD EACH

EACH PEDESTRI AN PUSH-BUTTON

### **SCHEDULE OF QUANTITIES**

		FUSH BUTTON
<b>QUANTITY</b>	<u>UNIT</u>	<u>ITEM</u> PUSH BUTTON
10	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	DRILL EXISTING HANDHOLE
4	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	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED
1	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

83 RTE. R Y G +Y +G R Y G +Y +G R G **↑ ↑** 0 ≺ **₽** 20 ☐ ★ ← ↑ C ↑ D CENTER ST. -NO. 6 ت × يم ا GREEN NO. 6 GREEN ດ ≺ ສ C V ٦ ک ы GREEN 2" UNDERGROUND CONDUIT, GALVANIZED STEEL **CABLE PLAN** 

INTERCONNECT TO FREDRICK RD.

-TRACER CABLE

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

SCALE: N.T.S.

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

UPS SHALL BE INSTALLED ON A SEPARATE FOUNDATION DUE TO PHYSICAL CONSTRAINTS, OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED"

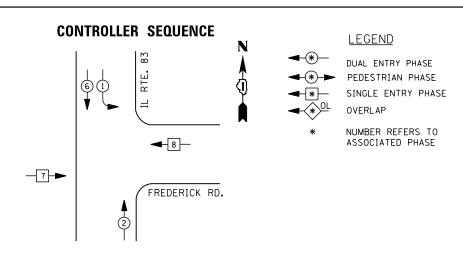
TS# 13740 GRAYSLAKE

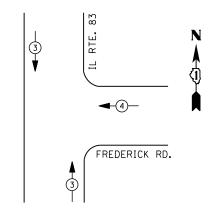
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N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\13740_CAB_LAKE.dg	DRAWN -	JDH	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -
	PLOT DATE = 12/10/2012	DATE -		REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

										0117	1 5 6	¬1\L
IL ROUTE 83 AT CENTER STREET SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE						F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
							2012-040TS	LAKE	60	29		
	AND	CIVIENUE	NCT V	ENICLE FI	IEEIVIF I JOIN	SEQUENCE				CONTRACT	NO. 6	50T85
s.	SHEET N	NO.	OF	SHEETS	STA.	TO	STA.		ILL INOIS FED.	AID PROJECT		







### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4					
MOVEMENT	1	<b>*</b>					

I. D. O. T.												
	TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS												
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL							
		INCAND.	LED		WATTAGE							
SIGNAL (RED)	12	1 35	17	0.50	102							
(YELLOW)	12	1 35	25	0.25	75							
( GREEN)	12	1 35	15	0.25	45							
ARROW	4	1 35	12	0.10	5							
PED. SIGNAL		90	25	1.00								
CONTROLLER	1	1 00	1 00	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM		150	-	1.00								
FLASHER LED												
				TOTAL =	327							

ENERGY COSTS-

BILLED TO: VILLAGE OF GRAYSLAKE

10 SOUTH SEYMOUR AVENUE GRAYSLAKE, ILLINOIS 60030

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

NO. 6 — GREEN R Y G ت ≻ ت ت <u>≻</u> ت **∞** ≻ ∪ FREDERICK RD. R V ດ ≺ ⊅ R V −NO. 6 GREEN **CABLE PLAN** TRACER CABLE -

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

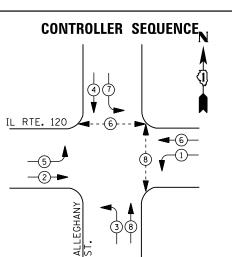
TS# 13741 GRAYSLAKE

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-	
N:\Projects3\12004\DesignCAD\Sheet Files	.12-004 Sheets NW Lake Co\13741_CAB_LAKE.dg	DRAWN	-	JDH	REVISED	-	STATE OF ILLINOIS
	PLOT SCALE = \$SCALE\$	CHECKED	-	KMM	REVISED	-	DEPARTMENT OF TRANSPORTATION
	PLOT DATE = 12/10/2012	DATE	-		REVISED	-	

IL ROUTE 83 AT FREDERICK ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

F.A. RTE.	SECTION		COUNTY	TOTAL	SHEE NO.
	2012-040TS	LAKE	60	30	
			CONTRACT	NO. 6	OT85
	ILLINOIS	FED. Al	D PROJECT		





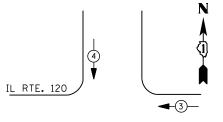
### <u>LEGEND</u>

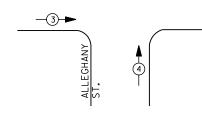
DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE
OVERLAP

NUMBER REFERS TO

NUMBER REFERS TO ASSOCIATED PHASE

### PHASE DESIGNATION DIAGRAM





### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>1</b>

I. D. O. T.						
	TRAFFIC SIGNAL INSTALLATION					
	ELECTRICAL	SERVI CE	REQUI R	EMENTS		
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL	
		INCAND.	LED		WATTAGE	
SIGNAL (RED)	16	1 35	1 7	0.50	136	
(YELLOW)	16	1 35	25	0.25	100	
( GREEN)	16	1 35	15	0.25	60	
ARROW	16	1 35	12	0.10	19	
PED. SIGNAL	4	90	25	1.00	100	
CONTROLLER	1	100	100	1.00	100	
ILLUM. SIGN		252	25	0.05		
VIDEO SYSTEM	1	150	ı	1.00	1	
FLASHER LED						

ENERGY COSTS-

BILLED TO: VILLAGE OF GRAYSLAKE

10 SOUTH SEYMOUR AVENUE GRAYSLAKE, ILLINOIS 60030

TOTAL =

515

ENERGY SUPPLY -

CONTACT <u>TERRI BLECK</u>
PHONE <u>847-816-5239</u>

COMMONWEALTH EDISON

### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

### REMOVAL OF 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.

4 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

-NO. 6 GREEN

**CABLE PLAN** 

-NO. 6 GREEN

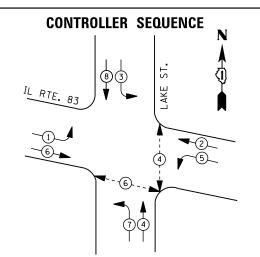
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IL RTE. 120

GREEN

TS# 13746 GRAYSLAKE

										GIVA	JLANL	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 120 AT ALLEGHANY ST	REET	F.A. RTF.	SECTION	COUNTY	TOTAL SHEET	1
N:\Projects3\12004\DesignCAD\Sheet File:	s 12-004 Sheets NW Lake Co\13746_CAB_LAKE.do	gr DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DI	SIGNATION DIAGRAM	1,1,2	2012-040TS	LAKE	60 32	1
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION	SEQUENCE		2012 01010		NO. 60T85	1
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA.	TO STA.	$\vdash$	ILL INOIS FED.	. AID PROJECT		-



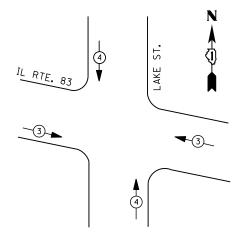
### **LEGEND**

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

### PHASE DESIGNATION DIAGRAM



### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	*	<b> </b>		

TRAFFIC SIGNAL INSTALLATION						
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS		
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL	
		INCAND.	LED		WATTAGE	
SIGNAL (RED)	16	1 35	17	0.50	136	
(YELLOW)	16	1 35	25	0.25	100	
( GREEN)	16	1 35	15	0.25	60	
ARROW	16	1 35	12	0.10	19	
PED. SIGNAL	4	90	25	1.00	100	
CONTROLLER	1	100	100	1.00	100	
ILLUM. SIGN		252	25	0.05		

I. D. O. T.

VIDEO SYSTEM 150 1.00 FLASHER LED TOTAL =

ENERGY COSTS-BILLED TO: VILLAGE OF GRAYSLAKE

ENERGY SUPPLY -

10 SOUTH SEYMOUR AVENUE GRAYSLAKE, ILLINOIS 60030

CONTACT TERRI BLECK

PHONE 847-816-5239

### COMMONWEALTH EDISON

### **SCHEDULE OF QUANTITIES**

		<del></del>
QUANTITY	<u>UNIT</u>	ITEM
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	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

### IL RTE. 83 NO. 6-GREEN INTERCONNECT TO SHOREWOOD RD. INTERCONNECT TO □ ¥ ⊃ 4 → • WASHINGTON ST. TRACER CABLE TRACER CABLE NO. 6-GREEN **CABLE PLAN** PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

ST.

-NO. 6

GREEN

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

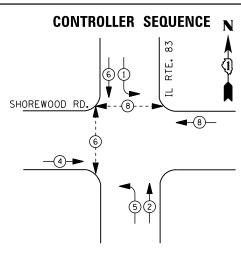
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

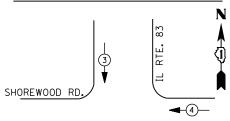
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 3 EACH PEDESTRIAN PUSH-BUTTON

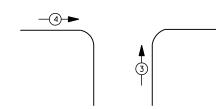
TS# 21990 GRAYSLAKE

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FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 83 AT LAKE STREET	F.A. RTF	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\21990_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2	012-040TS	LAKE 60 33
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT









### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>↓</b> ↑	<b>—</b>

	]	I. D. O. T.	
	TRAFFIC SI	IGNAL INSTALLA	TION
	ELECTRICAL S	SERVICE REQUIR	EMENTS
E.	NO. LAMPS	WATTAGE	% OPERAT
		TNICANID	

	ELECTRICAL SERVICE REGULATION				
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	16	1 35	17	0.50	136
(YELLOW)	16	1 35	25	0.25	100
( GREEN)	16	1 35	15	0.25	60
ARROW	8	1 35	12	0.10	10
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

ENERGY COSTS-

BILLED TO: VILLAGE OF GRAYSLAKE

TOTAL =

506

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

10 SOUTH SEYMOUR AVENUE GRAYSLAKE, ILLINOIS 60030

# SHOREWOOD RD.

EXISTING INTERSECTION-

AND SAMPLING (SYSTEM)

83

RTE.

### **SCHEDULE OF QUANTITIES**

QUANTIT	Y <u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

-TRACER CABLE

-NO. 6 GREEN

INTERCONNECT TO

N

INTERCONNECT TO

-NO. 6 GREEN

R > 0 7 9

NO. 6-GREEN EXISTING INTERSECTION -AND SAMPLING (SYSTEM)

DETECTORS **CABLE PLAN** 

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

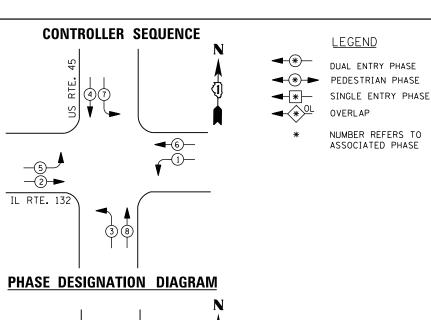
4 EACH PEDESTRIAN PUSH-BUTTON

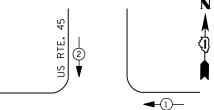
TRACER CABLE -

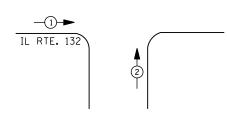
TS# 21993 GRAYSLAKE

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N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\21993_CAB_LAKE.de	1 -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDU	JLE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2	2012-040TS	LAKE 60 34
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT NO. 60T85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT









### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	<b>—</b>	1

TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	16	1 35	1 7	0.50	136				
(YELLOW)	16	1 35	25	0.25	100				
( GREEN)	16	1 35	15	0.25	60				
ARROW	16	1 35	12	0.10	19				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	1	150	-	1.00	150				

I. D. O. T.

ENERGY COSTS-

FILE NAME =

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

565

ENERGY SUPPLY -CONTACT TERRI BLECK

847-816-5239

**SCHEDULE OF QUANTITIES** 

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFI
2	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFI
2	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

TS# 6615 LAKE VILLA

COUNTY TOTAL SHEET NO.

LAKE 60 37

CONTRACT NO. 60185 US ROUTE 45 AT IL ROUTE 132 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION 2012-040TS SHEET NO. OF SHEETS STA.

H   G   C   C   C   C   C   C   C   C   C	
NO. 6 GREEN (1)	IL RTE. 132
No. 6    O	9+

### **CABLE PLAN**

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

COMMONWEALTH EDISON

FLASHER LED

PLOT DATE = 12/10/2012

PHONE

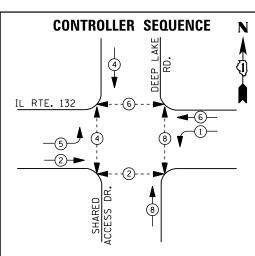
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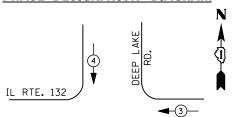
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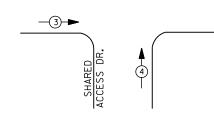
REVISED JDH REVISED CHECKED REVISED DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 









### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	

	I. D.	0.	т.
TRAFFIC	SI GNAL	IN	STALLATION
ELECTRICAL	. SERVI	CE I	REQUIREMENTS

ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	12	1 35	17	0.50	102			
(YELLOW)	12	1 35	25	0.25	75			
( GREEN)	12	1 35	15	0.25	45			
ARROW	8	1 35	12	0.10	10			
PED. SIGNAL	8	90	25	1.00	200			
CONTROLLER	1	100	1 00	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				
FLASHER LED								

ENERGY COSTS-

BILLED TO: VILLAGE OF LAKE VILLA

65 CEDAR AVENUE LAKE VILLA, IL 60046

ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE <u>847-816-5239</u>

COMMONWEALTH EDISON

TOTAL =

### SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	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	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

### GREEN INTERCONNECT TO INTERCONNECT TO MUNN RD. TRACER CABLE --TRACER CABLE IL RTE. 132 -EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS -NO. 6 EXISTING INTERSECTION AND SAMPLING (SYSTEM) GREEN DETECTORS ACCESS SHARED NO. 6 GREEN **CABLE PLAN**

NOTES:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASED 2 AND 4 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASED 4 AND 6 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASED 6 AND 8 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASED 2 AND 8

### REMOVAL OF 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.

8 EACH PEDESTRIAN SIGNAL HEAD

4 EACH PEDESTRIAN PUSH-BUTTON

TS# 7080 LAKE VILLA

1											LANI	. L A 11	LLA
ſ	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 132 (GRAND AVENUE) AT DEEP LAKE ROAD	F.A.	SECTION	COUNTY	TOTAL	SHEET
١	N:\Projects3\12004\DesignCAD\Sheet Files	.12-004 Sheets NW Lake Co\7080_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-040TS	LAKE	60	38
١		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. (	60T85
١		PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	. AID PROJECT		

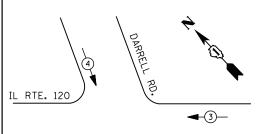


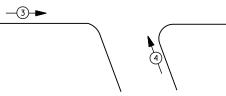


IL RTE. 120

\_5\_\_\_\_ **-2**→

### PHASE DESIGNATION DIAGRAM





### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS	
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	<b>—</b>	<b> </b>	

TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	17	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
( GREEN)	12	1 35	15	0.25	45				
ARROW	16	1 35	12	0.10	19				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									

I. D. O. T.

ENERGY COSTS-

BILLED TO: VILLAGE OF LAKEMOOR 28874 W. IL ROUTE 120, SUITE C & D

LAKEMOOR, IL 60051

ENERGY SUPPLY -CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

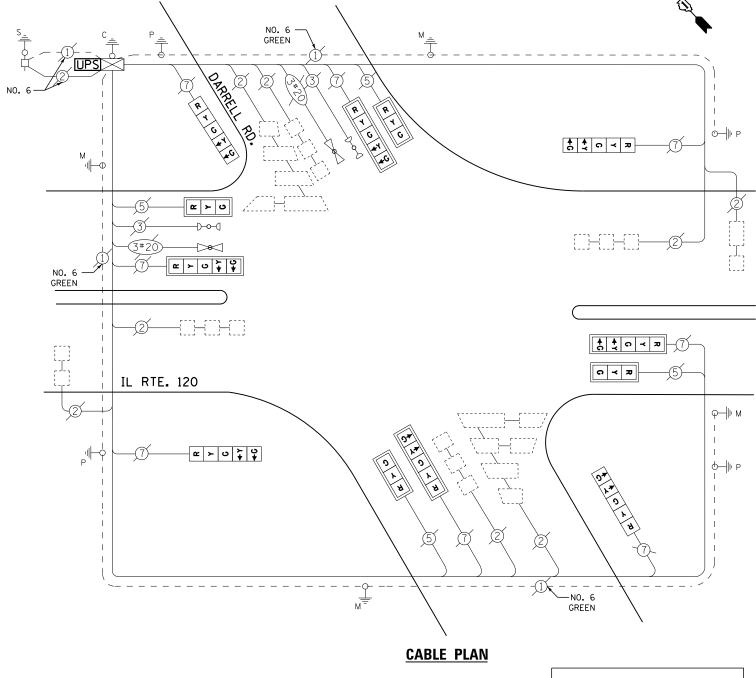
TOTAL =

341

### **LEGEND**

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE



RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE 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

### REMOVAL OF 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.

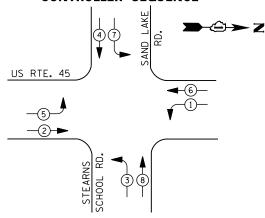
8 EACH TRAFFIC SIGNAL BACKPLATE

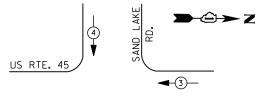
TS# 22102 LAKEMOOR

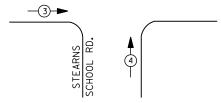
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 120 (BELVEDERE ROAD) AT DARRELL ROAD	F.A. RTE.	SECTION	COUNTY TOTAL SHEET	
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\22102_CAB_LAKE.d		JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			2012-040TS	LAKE 60 39	
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EWENGENCY VEHICLE PRECIVIPITION SEQUENCE			CONTRACT NO. 60T85		
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		











# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b> </b>

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE % OPERATIONS TOTAL WATTAGE INCAND. LED SIGNAL (RED) 17 102 1 35 0.50 25 0.25 (YELLOW) 1 35 75 12 (GREEN) 1 35 15 0.25 45 12 1 35 0.10 16 19 PED. SIGNAL CONTROLLER 100 100 1.00 100 ILLUM. SIGN 0.05

I. D. O. T.

VIDEO SYSTEM 1.00 150 FLASHER LED TOTAL = 341

ENERGY COSTS-

ARROW

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239

COMMONWEALTH EDISON

**SCHEDULE OF QUANTITIES** 

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFI
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFI
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

TS# 6617 LINDENHURST

FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\06617\_CAB\_LAKE.dgn DRAWN JDH REVISED **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED PLOT DATE = 12/10/2012 DATE REVISED

US ROUTE 45 AT SAND LAKE ROAD/STEARNS SCHOOL ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

COUNTY TOTAL SHEET NO. LAKE 60 40 COUNTY CONTRACT NO. 60T85

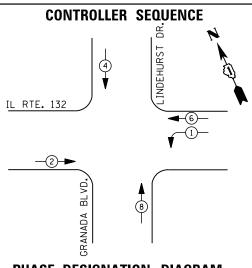
SECTION

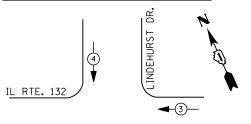
2012-040TS

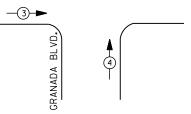
Y G Y G Y G A A A A A A A A A A A A A A	7
W.	
	NO. 6 GREEN
	d—III <sub>M</sub>
	1 1 1 1
SCHOOL R	1   1   1   1
S CREEN STEAM STEA	
CABLE PLAN	RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

GREEN









# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>↓</b> ↑

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

I. D. O. T.

LIFE	NU. LAMPS	WATTAGE		1. OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	14	1 35	17	0.50	119
(YELLOW)	14	1 35	25	0.25	88
( GREEN)	14	1 35	15	0.25	53
ARROW	4	1 35	12	0.10	5
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	-
FLASHER LED					

ENERGY COSTS-

BILLED TO: VILLAGE OF LINDENHURST 2301 EAST SAND LAKE ROAD

LINDENHURST, IL 60046

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

TOTAL =

365

# GREEN INTERCONNECT TO DR. LINDENHURST TRACER CABLE TRACER CABLE INTERCONNECT TO SAND LAKE RD. IL RTE. 132 GREEN BL VD. GRANADA GREEN **CABLE PLAN**

# **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u> <u>UNIT</u>

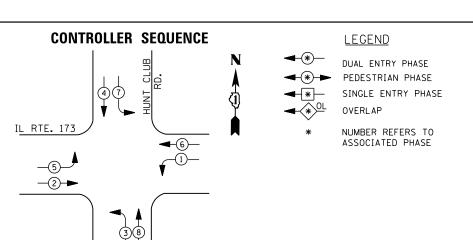
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH EACH

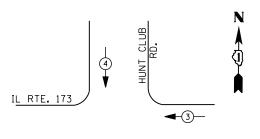
EACH

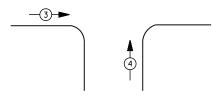
TS# 7075 LINDENHURST

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 132 (GRAND AVE.) AT GRANADA BLVD./LINDENHURST DR.	F.A. SECTION	COUNTY TOTAL SHEET SHEET NO.
N:\Projects3\12004\DesignCAD\Sheet File	s 12-004 Sheets NW Lake Co\07075_CAB_LAKE.c	1	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2012-040TS	LAKE 60 41
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		CONTRACT NO. 60T85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. A	AID PROJECT









# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	<b>—</b>	1				

1. 0. 1.								
TRAFFIC SIGNAL INSTALLATION								
	ELECTRICAL SERVICE REQUIREMENTS							
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	12	1 35	1 7	0.50	102			
(YELLOW)	12	1 35	25	0.25	75			
( GREEN)	12	1 35	15	0.25	45			
ARROW	16	1 35	12	0.10	19			
PED. SIGNAL		90	25	1.00				
CONTROLLER	1	1 00	100	1.00	100			
ILLUM. SIGN		252	25	0.05	-			
VIDEO SYSTEM		150	-	1.00	1			
FLASHER LED								

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096

TOTAL =

DESIGNED

CHECKED

JDH

KMM

DRAWN

DATE

ENERGY SUPPLY -

FILE NAME =

CONTACT TERRI BLECK PHONE

PLOT DATE = 12/10/2012

N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\07048\_CAB\_LAKE.dg

847-816-5239 COMMONWEALTH EDISON

# **SCHEDULE OF QUANTITIES**

REVISED

REVISED

REVISED

REVISED

COUNTY TOTAL SHEET NO.

LAKE 60 42 IL ROUTE 173 AT HUNT CLUB ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION COUNTY STATE OF ILLINOIS 2012-040TS **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60T85 SCALE: N.T.S. SHEET NO. OF SHEETS STA.

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL

	TS# 7048

**CABLE PLAN** 

-NO. 6 GREEN

ф<del>-</del>∥⊩<sub>М</sub>

B.

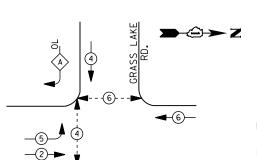
CLUB

IL RTE. 173

GREEN







### LEGEND

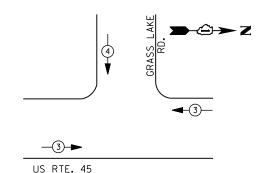
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED LETTER PHASE PHASE

# PHASE DESIGNATION DIAGRAM

US RTE. 45



# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	•

		I. D. 0	. T.				
TRAFFIC SIGNAL INSTALLATION							
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS			
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	11	1 35	17	0.50	94		
(YELLOW)	11	1 35	25	0.25	69		
( GREEN)	11	1 35	15	0.25	41		
ARROW	8	1 35	12	0.10	10		
PED. SIGNAL	4	90	25	1.00	100		
CONTROLLER	1	100	100	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00	-		
FLASHER LED							
				TOTAL =	414		

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

# **SCHEDULE OF QUANTITIES**

<u>QUANT I TY</u>	<u>UNIT</u>	<u>ITEM</u>
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	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

# NO. 6 GREEN GRASS LAKE RD. TRACER CABLE -C ○ ○ ★ D ◆ ← INTERCONNECT TO GRASS LAKE RD. NO. 6 -GREEN -EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR US RTE. 45 **TENTO** 5 (a)(~)(b) ∟N0. 6 GREEN **CABLE PLAN**

PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

## REMOVAL OF 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 SIGNAL HEAD

EACH PEDESTRIAN PUSH-BUTTON

TS# 21755 OLD MILL CREEK

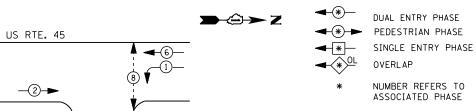
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			S LAKE ROA	AD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\21755_CAB_LAKE.do	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				2012-040TS	LAKE	60	43			
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMER	iENCY VI	EHICLE PKI	EMPTION S	EUVENCE			CONTRAC	T NO. 6	OT85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	_		





**-2-**

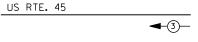
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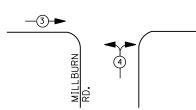


RIGHT	TURN	OVERLAP	PHASE	DESIGNATION	
OVER	LAP	PERMISS	SIVE	PROTECTED	
LETT	ER	PHASE		PHASE	

# PHASE DESIGNATION DIAGRAM







# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>+</b>	

		I. D. O	. т.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	10	1 35	17	0.50	85
(YELLOW)	10	1 35	25	0.25	63
( GREEN)	10	1 35	15	0.25	38
ARROW	8	1 35	12	0.10	10
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					
				TOTAL =	346

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239 COMMONWEALTH EDISON

# **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN PUSH-BUTTON
1	FACH	REMOVE EXISTING TRAFFIC SIGNAL FOULPMENT

EXISTING INTERSECTION-

AND SAMPLING (SYSTEM)

# REMOVAL OF 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.

**>**-**2**→**Z** 

GREEN

US RTE. 45

MILLBURN

NO. 6 GREEN

**CABLE PLAN** 

2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

TS# 21756 OLD MILL CREEK

TRACER CABLE

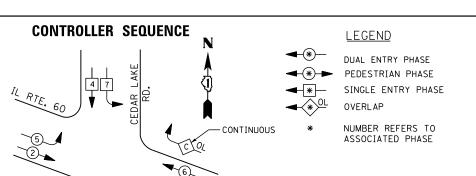
NO. 6

GREEN

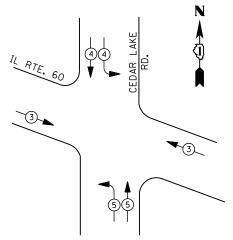
INTERCONNECT TO GRASS LAKE RD.

									ALD MITTE	L CI	\\
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 45 AT MILLBURN ROAD	F.A. RTF	SECTION	COUNTY	TOTAL	L SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\21756_CAB_LAKE.do	gr DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-040TS	LAKE	60	44
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	I NO.	60T85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	<b>—</b>	ILL INOIS FED. AIR			





3 8



# EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	3	4	5						
MOVEMENT	<b>—</b>		1						

		I. D. O	. T.		·
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND. LED			WATTAGE
SIGNAL (RED)	19	1 35	1 7	0.50	162
( YELLOW)	19	1 35	25	0.25	119
( GREEN)	20	1 35	15	0.25	75
ARROW	8	1 35	12	0.10	10
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	i	150	-	1.00	
FLASHER LED					
				TOTAL =	466

ENERGY COSTS-

BILLED TO: VILLAGE OF ROUND LAKE 442 N. CEDAR LAKE ROAD

ROUND LAKE, IL 60073

ENERGY SUPPLY -

FILE NAME =

CONTACT TERRI BLECK PHONE

USER NAME = \$USER\$

PLOT DATE = 12/10/2012

N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\06908\_CAB\_LAKE.dg

847-816-5239 COMMONWEALTH EDISON

DESIGNED

CHECKED

DRAWN

DATE

# SCHEDULE OF QUANTITIES

REVISED

REVISED

REVISED

REVISED

QUANTITY MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH

> TS# 6908 ROUND LAKE



	INTERCONNECT TO AMARIAS DRIVE  TRACER CABLE  N O O O O O O O O O O O O O O O O O O
THE LAKE	NO. 6 GREEN  EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS   T  T  T  T  T  T  T  T  T  T  T  T

### SEQUENCE OF OPERATION

	,					-						
MOVEMENT &		4—6 2—→			3		4					F
PHASE		2 + 6			3			4				
INTERVAL	1	2A	2B	3	4A	48	5	6A	68	60	6D	A S
CHANGE TO		3 4			2+			2+6		-6		н
ILL. RTE. 134 E/B ALL SIGNALS	G	Υ	R	R	R	R	R	R	R	R	R	R
ILL. RTÉ. 134 W/B ALL SIGNALS	G	Υ	R	R	R	R	R	R	R	R	R	R
FAIRFIELD ROAD N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	G ⊸≕-G	γ	R	R	R	R	R	R	R
FAIRFIELD ROAD N/B FAR RIGHT SIGNAL	R	R	R	G	Υ	R	R	R	R	R	R	Ŗ
FAIRFIELD ROAD WORTH OF TRACKS) S/B ALL SIGNALS	R	R	R	R	R	R	G	Υ	R	R	R	R
FAIRFIELD ROAD (SOUTH OF TRACKS) S/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	G G	G ⊸as-G	G G	Y	R	R
FAIRFIELD ROAD (SOUTH OF TRACKS) S/B FAR RIGHT SIGNAL	R	R	R	R	R	R	G	G	G	Y	R	R

NAILROAD PREEMPTION SEQUENCE OF OPEN	ATIO	Ā					PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		3		5					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	18	10	10	1E	1F	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	16	2	10	2	1F	2	3	4	5		NORMAL SEQUENCI
ILL. RTE. 134 E/B ALL SIGNALS	Y	R	R	R	R	R	R	R	R	G	Δ
ILL. RTE. 134 W/B ALL SIGNALS	Y	R	R	R	R	R	R	R	R	G	Δ
FAIRFIELD ROAD N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	Y	R	R	R	R	R	R	R	Δ
FAIRFIELD ROAD N/B FAR RIGHT SIGNAL	R	R	Υ	R	R	A	R	R	R	R	Δ
FAIRFIELD ROAD (NORTH OF TRACKS) S/B ALL SIGNALS	R	R	R	R	Y	R	R	R	R	R	Δ
FAIRFIELD ROAD (SOUTH OF TRACKS) S/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	G 	G G	G ⊸G	Υ	R	R	Δ
FAIRFIELD ROAD (SOUTH OF TRACKS) S/B FAR RIGHT SIGNAL	R	R	R	R	G	G	G	Υ	R	R	Δ
INTERNALLY ILLUMINATED NRT SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	Δ
INTERNALLY ILLUMINATED NLT SIGNS	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	Δ
		4	A.		<b></b>	harr	<u> </u>			HOLD	

	I. D.	0. T.	
TRAFFIC	SIGNAL	INSTALLA	ATION
ELECTRICAL	SERVI	CE REQUIF	REMENTS

TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL							
		INCAND.	LED		WATTAGE							
SIGNAL (RED)	15	1 35	35 17 0.50									
(YELLOW)	15	1 35	0.25	94								
( GREEN)	19	1 35	15	0.25	71							
ARROW		1 35	12	0.10								
PED. SIGNAL		90	25	1.00								
CONTROLLER	1	100	100	1.00	100							
ILLUM. SIGN	4	252	25	0.05	5							
VIDEO SYSTEM		150	-	1.00	1							
FLASHER LED												

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

398

ENERGY SUPPLY -

CONTACT TERRI BLECK

PHONE 847-816-5239

COMMONWEALTH EDISON

PHASES 2 AND 6 SHALL BE PLACED ON RECALL.

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

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

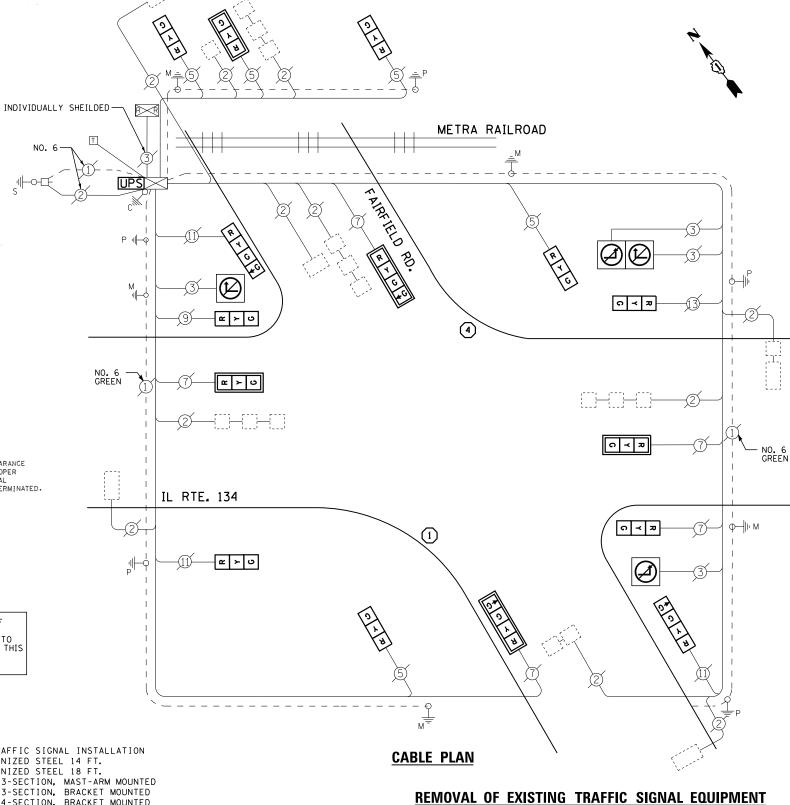
NRT = "NO RIGHT TURN" OR NLT = "NO LEFT TURN" OR

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.

CONTRACTOR SHALL CONTACT METRA PRIOR TO START OF CONSTRUCTION AND REQUEST THEIR FLAGGING SERVICES. PAYMENT WILL BE MADE BY THE CONTRACTOR DIRECTLY TO METRA, AND THE CONTRACTOR WILL BE REIMBURSED FOR THIS COST ACCORDING TO SECTION 109.05 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

# **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED
5	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
4	EACH	ILLUMINATED SIGN, LED
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL



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.

11 EACH SIGNAL HEAD, 3 - SECTION SIGNAL HEAD, 4 - SECTION EACH EACH TRAFFIC SIGNAL BACKPLATE SIGNAL POST EACH

EACH

TS# 7090 ROUND LAKE

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet Fil 12-004 Sheets NW Lake Co\07090\_CAB\_LAKE.do DRAWN JDH REVISED CHECKED REVISED PLOT DATE = 12/10/2012 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

COUNTY TOTAL SHEET NO. LAKE 60 46 ILL ROUTE 134 AT FAIRFIELD ROAD SECTION SEQUENCE OF OPERATIONS, EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS
AND RAILROAD PREEMPTION SEQUENCE OF OPERATIONS 2012-040TS CONTRACT NO. 60T85 SHEET NO. OF SHEETS STA.

ILLUMINATED SIGN



DUENCE OF OPERATION																				
MOVEMENT	5	او	<b>~</b>	1	*	6 1	5 - 2 -		2	<del></del> (			<i>7</i> 3			,	4			F
PHASE		1	+ 5		1	+ 6	2 -	+ 5	1	2 + 6			3				4			L
INTERVAL	1	2	3	4	5	6	7	8	9	104	108	11	12A	128	13	14A	148	14C	14D	s
CHANGE TO		1+6	2+5	2+6		2+6		2+6		3			1+ 1+ 2+ 2+	-6 -5			1+ 1+ 2+ 2+	6 5		+
ILL. RTE. 134 E/B END MAST ARM AND FAR LEFT SIGNALS	₽ ⊸•G	R — Y	R ⊸ G	R — Y	В	В	G ⊸≪ G	G ~* Y	c	Y	P	R	R	Ŗ	R	R	P	p	P	R
ILL. RTE. 134 E/8 FAR RIGHT SIGNAL	А	R	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	Ŕ
ILL. RTE. 134 W/B END MAST ARM AND FAR LEFT SIGNALS	F →•G	R G	R Y	R — Y	G G	G Y	R	R	G	Υ	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 134 W/B FAR RIGHT SIGNAL	R	R	R	R	G	G	В	R	G	Y	R	R	R	R	В	R	R	R	R	8
HART ROAD N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G G	Y	R	R	R	R	R	R	R
HART ROAD 'M/B	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R
HART ROAD (NORTH OF TRACKS) S/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	R	R	R
HART ROAD (SOUTH OF TRACKS) S/B END MAST ARM AND FAR LEFT SIGNALS	R /	R	R	R	R	R	R	R	R	R	R	R	R	R	G 	G ⊶≢ G	G ⊸≄G	Y	R	R
HART ROAD (SOUTH OF TRACKS) S/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	C	G	C	γ	R	R

AILROAD PREEMPTION SEQUENCE OF OPE	RATIO	į										PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		7		9	1	1	1	3					po
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	14	18	10	10	IE	1F	1G	114	IJ	įκ	H.	2	3	4	5	CLEAR
CHANGE TO MAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	10	2	1E.	2	1G	2 `	13	2	1L	2	3	4	5		NORMAL SEQUENCE
ILL. RTE. 134 E/B END MAST ARM AND FAR LEFT SIGNALS	R 	R	R	Υ	R	Υ	R	В	R	R	R	R	R	R	G	Δ
ILL. RTE. 134 E/B FAR RIGHT SIGNAL	R	R	R	Y	R	Υ	R	R	8	R	R	R	R	R	G	Δ
ILL. RTE. 134 W/B END MAST ARM AND FAR LEFT SIGNALS	- ¥	Υ	R	R	R	Y	R	R	R	R	R	R	R	R	G	Δ
ILL, RTE, 134 W/B FAR RIGHT SIGNAL	R	Y	R	R	R	Υ	R	R	R	R	R	R	R	R	G	Δ
HART, ROAD N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Δ
HART ROAD N/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	¥	R	R	R	R	R	R	R	Δ
HART ROAD (NORTH OF TRACKS) S/B ALL SIGNALS	R	R	я	R	R	R	R	R	R	Y	R	R	R	R	R	Δ
HART ROAD (SOUTH OF TRACKS) S/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	€	G ⊸=+G	G G	Υ	R	R	Δ
HART ROAD (SOUTH OF TRACKS) S/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	R	Δ
INTERNALLY ILLUMINATED NRT SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	MET	NRT	NRT	Δ
INTERNALLY ILLUMINATED NLT SIGNS	NLT	NLT	NLT.	NET	NL.T	NLT	NLT	NLT	NLT	NLT	NLT	HLT	MLT	NLT	NLT	Δ
	J	A					.h		1					-	HOLD	

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

TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	16	1 35	17	0.50	136
(YELLOW)	16	1 35	25	0.25	100
( GREEN)	20	1 35	15	0.25	75
ARROW	8	1 35	12	0.10	10
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	4	252	25	0.05	5
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

TOTAL = 426

ENERGY COSTS-

BILLED TO: VILLAGE OF ROUND LAKE 442 N. CEDAR LAKE ROAD

ROUND LAKE, IL 60073

ENERGY SUPPLY -

N:\Projects3\12004\DesignCAD\Sheet File

FILE NAME =

CONTACT TERRI BLECK PHONE 847-816-5239

s 12-004 Sheets NW Lake Co\21625\_CAB\_LAKE.dg

USER NAME = \$USER\$

PLOT DATE = 12/10/2012

COMMONWEALTH EDISON

DESIGNED

CHECKED

JDH

DRAWN

DATE

<u>QUANTITY</u>	<u>UN I T</u>	NO. 6 — NO. 6 — GREEN
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	ILLUMINATED SIGN, LED
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	FΔCH	INTERRIPTARIE POWER SUPPLY SPECIAL

SECTION

ILL ROUTE 134 AT HART ROAD
SEQUENCE OF OPERATIONS, EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS
AND RAILROAD PREEMPTION SEQUENCE OF OPERATIONS SHEET NO. OF SHEETS STA.

**CABLE PLAN** 

COUNTY TOTAL SHEET NO.

LAKE 60 47 2012-040TS CONTRACT NO. 60T85

TS# 21625 ROUND LAKE

INDIVIDUALLY SHEILDED

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DEPART	
1	

TMENT OF TRANSPORTATION

CONTRACTOR SHALL CONTACT METRA PRIOR TO START OF CONSTRUCTION AND REQUEST THEIR FLAGGING SERVICES. PAYMENT WILL BE MADE BY THE CONTRACTOR DIRECTLY TO METRA, AND THE CONTRACTOR WILL BE REIMBURSED FOR THIS COST ACCORDING TO SECTION 109.05 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. **SCHEDULE OF QUANTITIES** 

REVISED

REVISED

REVISED

REVISED

**~** ≻ ∪ ↓ ♀ ...

METRA RAILROAD

1

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2 × 0 × 0

IL RTE. 134

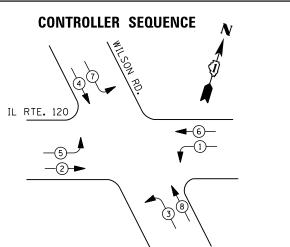
A RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO 015PLAY AN EMPGRENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

PHASES 2 AND 6 SHALL BE PLACED ON RECALL.

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

STATE OF ILLINOIS





<u>LEGEND</u>

DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

OVERLAP

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE % OPERATIONS TOTAL WATTAGE INCAND. LED SIGNAL (RED) 1 35 17 0.50 136 (YELLOW) 1 35 25 0.25 100 16 (GREEN) 16 1 35 15 0.25 60 ARROW 16 1 35 0.10 19 PED. SIGNAL 1.00 CONTROLLER 100 100 1.00 100 25 ILLUM. SIGN 252 0.05

150

TOTAL = 415

--

1.00

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1

VIDEO SYSTEM

FLASHER LED

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT TERRI BLECK

CONTACT <u>TERRI BLECK</u>
PHONE 847-816-5239

COMMONWEALTH EDISON

# NO. 6 GREEN INTERCONNECT TO FAIRFIELD RD. -TRACER CABLE ↑ ↑ ∩ ≺ π α ≻ υ - INTERSECTION AND SAMPLING (SYSTEM) DETECTOR IL RTE. 120 - E > O INTERSECTION AND SAMPLING (SYSTEM) DETECTOR - x v > v NO. 6 GREEN **CABLE PLAN**

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

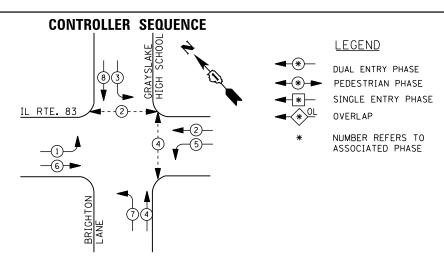
# SCHEDULE OF QUANTITIES

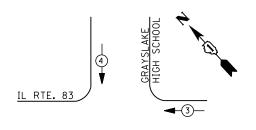
QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT

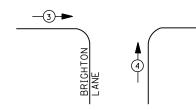
TS# 22255 ROUND LAKE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			II	L ROUTE 120	AT W	ILSON ROAD		F.A. RTF.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files		nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN AND				2012-040TS	LAKE	60 48			
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	PHASE DESIGNATION DIAGRAM					CONTRAC	CT NO. 60T85			
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF SH	IEETS	STA.	TO STA.		ILL INOIS FE	D. AID PROJECT	









# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>↓</b> ↑

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	14	1 35	17	0.50	119					
(YELLOW)	14	1 35	25	0.25	88					
( GREEN)	14	1 35	15	0.25	53					
ARROW	16	1 35	12	0.10	19					
PED. SIGNAL	4	90	25	1.00	100					
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00	-					
FLASHER LED										

**ENERGY COSTS-**

BILLED TO: VILLAGE OF ROUND LAKE BEACH 1937 NORTH MUNICIPAL WAY

ENERGY SUPPLY -

CONTACT TERRI BLECK 847-816-5239 PHONE

COMMONWEALTH EDISON

ROUND LAKE BEACH, IL 60073

TOTAL =

**SCHEDULE OF QUANTITIES** 

<u>UN I T</u> 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 FACH EACH FACH FACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING

# -NO. 6 GREEN TRACER CABLE INTERCONNECT TO SHOREWOOD RD. IL RTE. 83 INTERSECTION AND SYSTEM (SAMPLING) DETECTORS GREEN INTERSECTION AND SYSTEM-(SAMPLING) DETECTORS IL RTE. 83 NO. 6 -GREEN BRIGHTON LANE

GRAYSLAKE HIGH SCHOOL

# **CABLE PLAN**

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASED 2 AND 4

### REMOVAL OF 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.

- 4 EACH PEDESTRIAN SIGNAL HEAD
- 3 EACH PEDESTRIAN PUSH-BUTTON

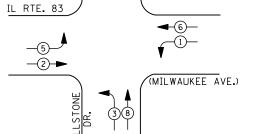
TS# 12317 ROUND LAKE BEACH

FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW COUNTY IL ROUTE 83 AT BRIGHTON LANE/GRAYSLAKE HIGH SCHOOL SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\12317\_CAB\_LAKE.dg DRAWN JDH REVISED SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM 2012-040TS LAKE 60 49 **DEPARTMENT OF TRANSPORTATION** AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CHECKED KMM REVISED CONTRACT NO. 60T85 SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 12/10/2012 REVISED DATE

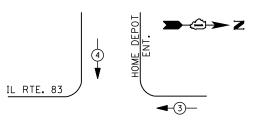


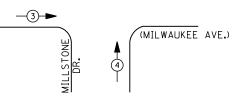


NUMBER REFERS TO



# PHASE DESIGNATION DIAGRAM





# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	<b>—</b>	<b>1</b>						

I. D. O. T. TRAFFIC SIGNAL INSTALLATION

	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	17	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
( GREEN)	12	1 35	15	0.25	45				
ARROW	16	1 35	12	0.10	19				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									

ENERGY COSTS-

BILLED TO: VILLAGE OF ROUND LAKE BEACH 1937 NORTH MUNICIPAL WAY

TOTAL =

341

ENERGY SUPPLY -

ROUND LAKE BEACH, IL 60073 CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

# **LEGEND**

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

OVERLAP

ASSOCIATED PHASE

NO. 6-GREEN TRACER CABLE INTERCONNECT TO HOOK DR./OLD ROLLINS RD. IL RTE. 83 NO. 6-GREEN  $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ (MILWAUKEE AVE.) 

**CABLE PLAN** 

MILLSTONE DR.

-NO.6 GREEN

HOME DEPOT ENTRANCE

# SCHEDULE OF QUANTITIES

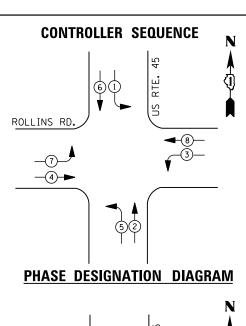
QUANTITY <u>UNIT</u> <u>ITEM</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

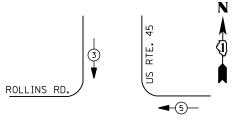
TS# 21991 ROUND LAKE BEACH

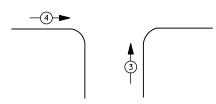
**→**②→ Z

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 83 AT MILI	LLSTONE DRIVE/HOME	DEPOT	F.A.	SECTION	COLINITY	TOTAL SHEET SHEETS NO.			
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\21991_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS						SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		11122	2012-040TS	LAKE	60 50
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEH	HICLE PREEMPTION SE	EQUENCE			CONTRACT	NO. 60T85			
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SH	HEETS STA.	TO STA.		ILLINOIS FED	. AID PROJECT				









# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4	5				
MOVEMENT	<b>↓</b> †	-	-				

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	14	1 35	1 7	0.50	119					
(YELLOW)	14	1 35	25	0.25	88					
( GREEN)	14	1 35	15	0.25	53					
ARROW	16	1 35	12	0.10	19					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM	2	150	ı	1.00	300					
FLASHER LED										

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

679

ENERGY SUPPLY -

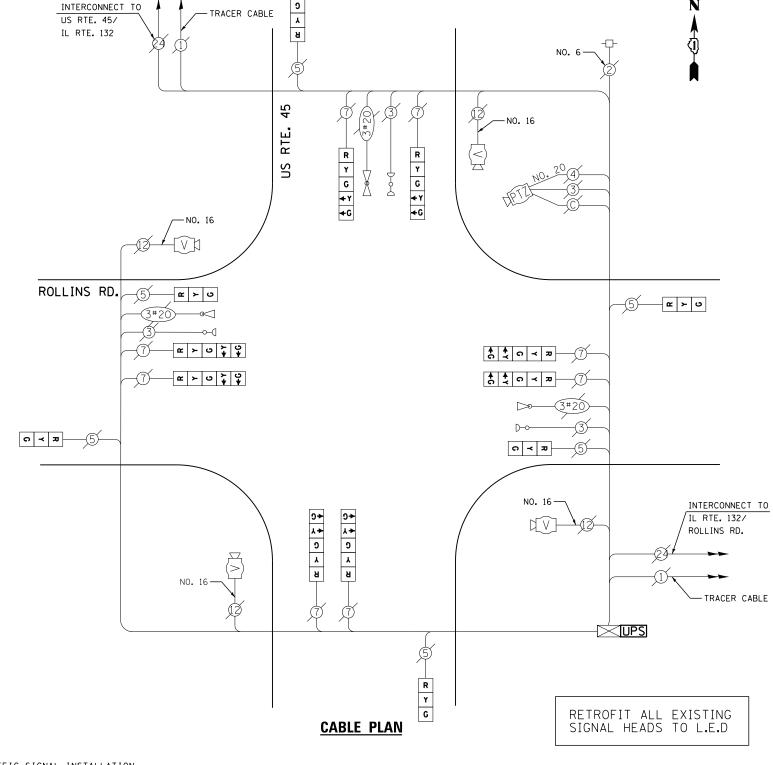
CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

# **LEGEND**

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE



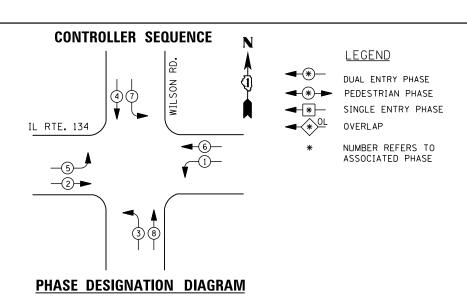
QUANTITY <u>ITEM</u> <u>UNIT</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED, RETROFIT EACH EACH

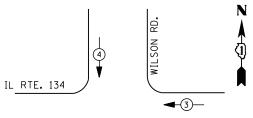
**SCHEDULE OF QUANTITIES** 

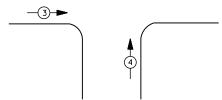
TS# 6690 THIRD LAKE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 45 AT ROLLINS ROAD	F.A. SECTION	COUNT	Y TOTAL S	SHEET NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\6690_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2012-040TS	S LAKE	60	52
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		CONTR	RACT NO. 60	T85
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.   SHEET NO. OF SHEETS   STA. TO STA.	ILLI	NOIS FED. AID PROJECT		









EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	<b>—</b>	<b>↓</b> ↑						

	TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	16	1 35	1 7	0.50	136					
(YELLOW)	16	1 35	25	0.25	100					
( GREEN)	16	1 35	15	0.25	60					
ARROW	16	1 35	12	0.10	19					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05	-					
VIDEO SYSTEM	1	150	ı	1.00	-					
FLASHER LED										
				TOTAL =	415					

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

N:\Projects3\12004\DesignCAD\Sheet Fil

FILE NAME =

CONTACT TERRI BLECK PHONE

s 12-004 Sheets NW Lake Co\00557\_CAB\_LAKE.do

USER NAME = \$USER\$

PLOT DATE = 12/10/2012

847-816-5239 COMMONWEALTH EDISON

# **SCHEDULE OF QUANTITIES**

**QUANTITY** <u>UNIT</u>

REVISED

REVISED

REVISED

REVISED

EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

EACH MODIFY EXISTING CONTROLLER CABINET

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

IL ROUTE 134 AT WILSON ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION STATE OF ILLINOIS 2012-040TS **DEPARTMENT OF TRANSPORTATION** SCALE: N.T.S. SHEET NO. OF SHEETS STA.

**CABLE PLAN** 

GREEN

8

IL RTE. 134

GREEN

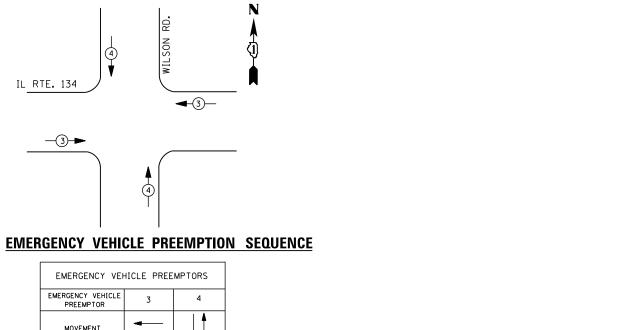
COUNTY TOTAL SHEET NO.

LAKE 60 53

CONTRACT NO. 60185

TS# 557 GRANT TWP.

- NO. 6 GREEN



DESIGNED

CHECKED

DRAWN

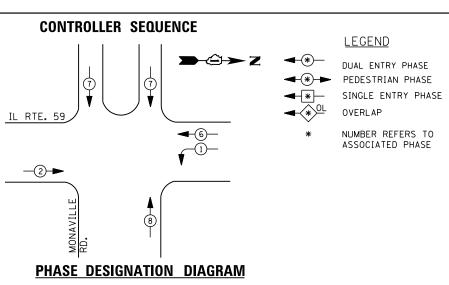
DATE

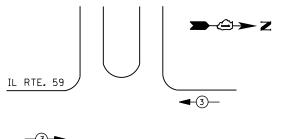
DW

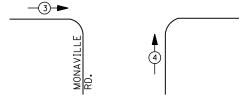
JDH

KMM









EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	1

1. D. O. 1.										
	TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	14	1 35	1 7	0.50	119					
( YELLOW)	14	1 35	25	0.25	88					
( GREEN)	18	1 35	15	0.25	68					
ARROW	4	1 35	12	0.10	5					
PED. SIGNAL	-	90	25	1.00						
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00	-					
FLASHER LED										
				TOTAL =	380					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

ENERGY SUPPLY -

FILE NAME =

CONTACT TERRI BLECK PHONE

COMMONWEALTH EDISON

# **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u> <u>UNIT</u>

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH

EACH

EACH

		TS LA	# 717 KE VILL	Α
IL ROUTE 59 AT MONAVILLE ROAD	F.A. RTE.	SECTION	COUNTY	TO SHE
DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-040TS	LAKE	6

PR.

-NO. 6 GREEN

PRIVATE

TWP. TOTAL SHEET SHEETS NO. 60 54

IL RTE. 59 NO. 6 — GREEN MONAVILLE RD.

Ŗ.

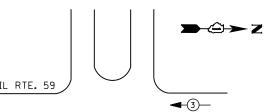
PRIVATE

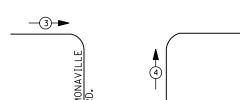
**CABLE PLAN** 

GREEN

STATE OF ILLINOIS

**EMERGENCY VEHICLE PREEMPTION SEQUENCE** 





TOTAL =

SCHAUMBURG, IL 60196-1096

847-816-5239

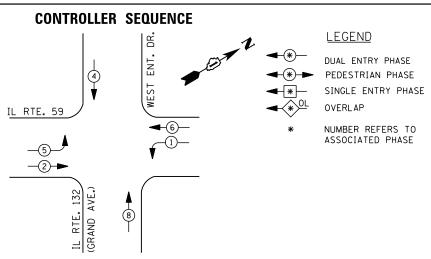
DESIGNED REVISED N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\00717\_CAB\_LAKE.dg DRAWN JDH REVISED CHECKED KMM REVISED REVISED PLOT DATE = 12/10/2012 DATE

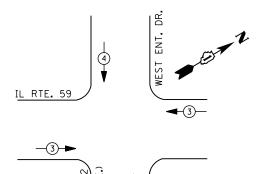
**DEPARTMENT OF TRANSPORTATION** 

AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

CONTRACT NO. 60T85







# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4					
MOVEMENT	<b>←</b>	1					

I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	13	1 35	17	0.50	111				
(YELLOW)	13	1 35	25	0.25	81				
( GREEN)	13	1 35	15	0.25	49				
ARROW	8	1 35	12	0.10	10				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	-	150	-	1.00	1				
FLASHER LED									
				TOTAL =	351				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT TERRI BLECK
PHONE 847-816-5239

COMMONWEALTH EDISON

# SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS# 6840 LAKE VILLA TWP.

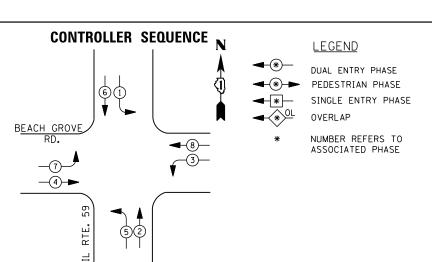
COUNTY TOTAL SHEET NO.

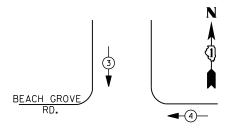
LAKE 60 55

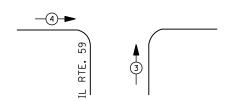
CONTRACT NO. 60185 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW IL ROUTE 59 AT IL ROUTE 132 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\06840\_CAB\_LAKE.dq DRAWN JDH REVISED 2012-040TS **DEPARTMENT OF TRANSPORTATION** CHECKED REVISED REVISED SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 12/10/2012 DATE

/	N	io. 6 REEN <u>= M</u>	
(S)(S)	WEST ENT. DR.	R R Y C	
M	/		
IL RTE. 59		3#20 D-0-1  (***********************************	NO. 6 GREEN
		(E)	
	IL RTE. 132 (GRAND AVE.)		
`` — — — — — — — — — — — — — — — — — —	NO. 6 GREEN		NO. 6
	CABLE PLA	<u>N</u>	









# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	<b>†</b>

I. D. O. T.								
TRAFFIC SIGNAL INSTALLATION								
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS				
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	12	1 35	17	0.50	102			
(YELLOW)	12	1 35	25	0.25	75			
( GREEN)	12	1 35	15	0.25	45			
ARROW	16	1 35	12	0.10	19			
PED. SIGNAL		90	25	1.00				
CONTROLLER	1	100	1 00	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				
FLASHER LED								
				TOTAL =	341			

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE 847-816-5239

COMMONWEALTH EDISON

# SCHEDULE OF QUANTITIES

OUANTITY UNIT ITEM

1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS# 6857 ANTIOCH TWP.

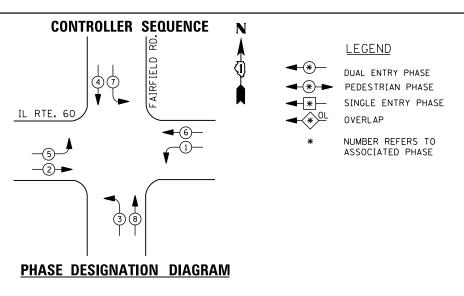
COUNTY TOTAL SHEET NO.

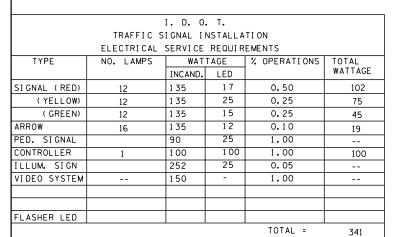
LAKE 60 56

CONTRACT NO. 60185 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED IL ROUTE 59 AT BEACH GROVE ROAD
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE DW SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\06857\_CAB\_LAKE.de nDRAWN JDH REVISED 2012-040TS **DEPARTMENT OF TRANSPORTATION** CHECKED REVISED SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 12/10/2012 DATE REVISED

BEACH GROVE RD.  S  CC  C	NO. 6 GREEN
IL RTE. 59  REEN  A COLUMN TO SERVICE TO SER	
<u>CABLE PLAN</u>	NO. 6







ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT TERRI BLECK
PHONE 847-816-5239

847-816-5239 COMMONWEALTH EDISON

# SCHEDULE OF QUANTITIES

OUANTITY UNIT ITEM

1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH UNINTERRUPTABLE 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

TS# 6912

FREMONT TWP.

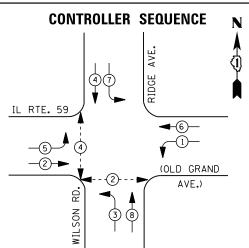
UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

COUNTY TOTAL SHEET NO.

LAKE 60 57 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW IL ROUTE 60 AT FAIRFIELD ROAD SECTION STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN AND N:\Projects3\12004\DesignCAD\Sheet Files 12-004 Sheets NW Lake Co\06912\_CAB\_LAKE.dg DRAWN JDH REVISED 2012-040TS PHASE DESIGNATION DIAGRAM **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T85 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA. REVISED PLOT DATE = 12/10/2012 DATE

NO. 6 GREEN  T  T  G  H  Y  G  H  H  H  H  H  H  H  H  H  H  H  H	FAIRFIELD RD.  Sample of the state of the st
IL RTE. 60  (5)  (2)  (1)  (2)	NO. 6 GREEN
CABLE PLAN	RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.





### LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

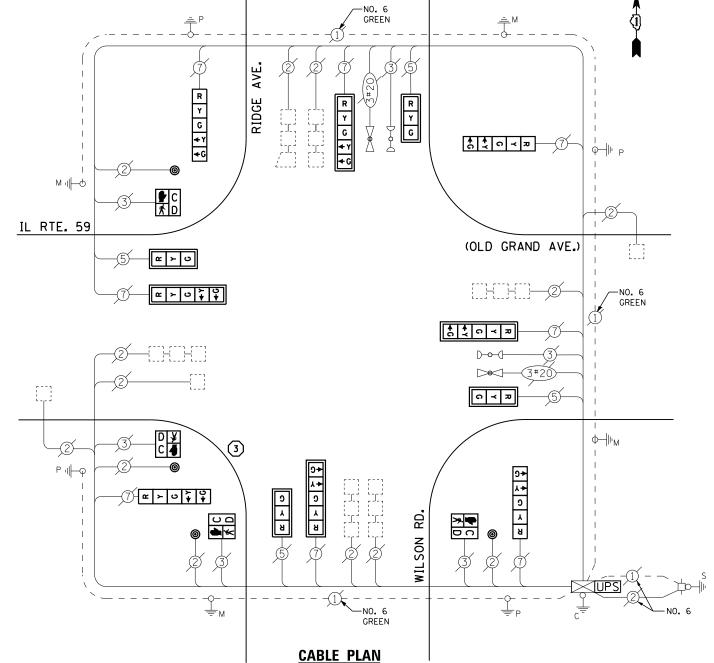
NUMBER REFERS TO ASSOCIATED PHASE

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

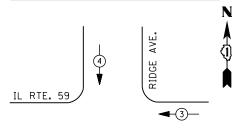
REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

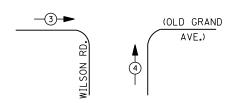
REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



# PHASE DESIGNATION DIAGRAM





# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>↓</b> ↑

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	12	1 35	1 7	0.50	102					
( YELLOW)	12	1 35	25	0.25	75					
( GREEN)	12	1 35	15	0.25	45					
ARROW	16	1 35	12	0.10	19					
PED. SIGNAL	4	90	25	1.00	100					
CONTROLLER	1	1 00	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

441

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

# **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
ī	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	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
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

# REMOVAL OF 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.

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

FACH

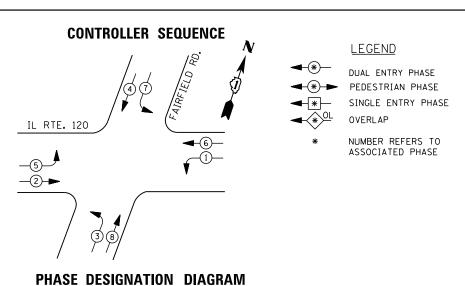
EACH PEDESTRIAN PUSH-BUTTON EACH TRAFFIC SIGNAL BACKPLATE

SIGNAL POST EACH

> TS# 11940 GRANT TWP.

															0			
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROU	TE 59 AT	WILSON	ROAD/RI	DGE AVENUE		F.A.	SECTION	COUNTY	TOTAL	L SHEET	П
N:\Projects3\12004\DesignCAD\Sheet Files	.12-004 Sheets NW Lake Co\11940_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUAN						1112	2012-040TS	LAKE	60	58	٦
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE					CONTRAC		60T85	ı				
	PLOT DATE = 12/10/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	Т	O STA.		ILLINOIS FED. AI				_





I. D. O. T.										
	TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	16		1 7	0.50	136					
(YELLOW)	16		25	0.25	100					
( GREEN)	16		15	0.25	60					
ARROW	16		12	0.10	19					
PED. SIGNAL			25	1.00						
CONTROLLER	1		100	1.00	100					
ILLUM. SIGN			25	0.05						
VIDEO SYSTEM			-	1.00						
FLASHER LED										

BILLED TO: IDOT DISTRICT 1

CONTACT TERRI BLECK

847-816-5239

PHONE

ENERGY COSTS-

ENERGY SUPPLY -

TOTAL =

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

415

-NO. 6 GREEN TRACER CABLE \*8*. 9 R 4 G 4 Y 4 G INTERCONNECT TO WILSON ROAD R Y G Y Y # ↑ C ≺ Z RYG IL RTE. 120 -EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR **∠** ≻ ∪ <del>`</del> ♀ — NO. 6 GREEN ↑ ↑ C ≺ Z EXISTING INTERSECTION — AND SAMPLING (SYSTEM) DETECTOR ດ **≺** ສ α ≻ ∪ <del>↓</del> <del>↓</del> ο ≺ π NO.6— GREEN RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D. **CABLE PLAN** 

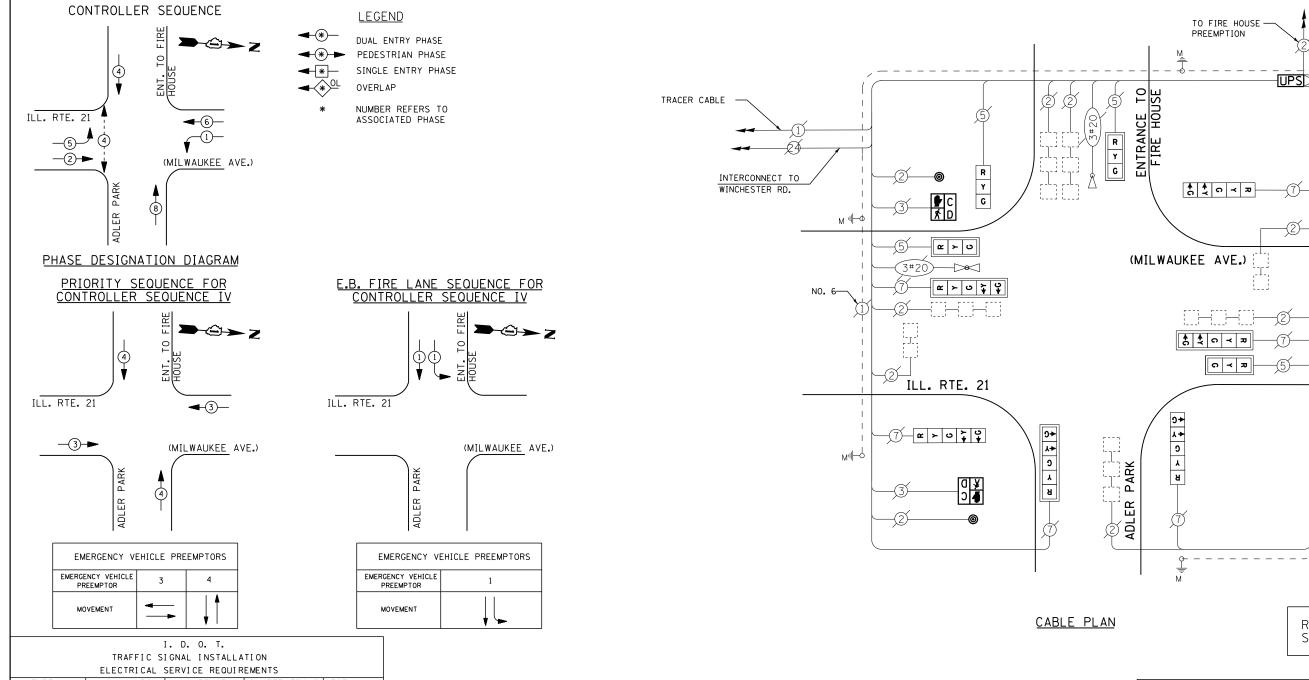
# **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
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

TS# 22250 AVON TWP.

ı	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 120 AT FAIRFIELD ROAD	F.A.	SECTION	COUNTY TOTAL SHEET
	N:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\22250_CAB_LAKE.dc	nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM  SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.			2012-040TS	LAKE 60 59
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION				2012 0 10 10	CONTRACT NO. 60T85
		PLOT DATE = 12/10/2012	DATE -		REVISED -					ILLINOIS FED. AI	





	THE STATE OF THE S											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL							
		INCAND. LED			WATTAGE							
SIGNAL (RED)	10	1 35	17	0.50	85							
(YELLOW)	10	1 35	25	0.25	63							
( GREEN)	10	1 35	15	0.25	38							
ARROW	12	1 35	12	0.10	10							
PED. SIGNAL	2	90	25	1.00	50							
CONTROLLER	1	100	1 00	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM		150	-	1.00								
FLASHER LED												

ENERGY COSTS
BILLED TO: VILLAGE OF LIBERTYVILLE
200 E. COOK AVENUE

LIBERTYVILLE, IL 60048

TOTAL =

350

ENERGY SUPPLY - CONTACT <u>TERRI BLECK</u>

PHONE 847-816-5239
COMMONWEALTH EDISON

# **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1 2	EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1 1	EACH EACH EACH	PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1 1	EACH EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
3 3 3	EACH EACH EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

**→**©→z

-TRACER CABLE

INTERCONNECT TO

ROAD)

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

IL RTE. 137 (BUCKLEY

	REMOVAL	0F	<b>EXISTING</b>	<b>TRAFFIC</b>	<b>SIGNAL</b>	<b>EQUIPMENT</b>
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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.

PEDESTRIAN SIGNAL HEAD
PEDESTRIAN PUSH-BUTTON

TS# 14016 LIBERTYVILLE

F	ILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 21	1 AT NOF	TH FIRE	STATION	ADLER PARK	F.A.	SECTION	COUNTY	TOTAL	SHEET
N	:\Projects3\12004\DesignCAD\Sheet Files	12-004 Sheets NW Lake Co\14016_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.					2012-040TS	LAKE	60	60		
		PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRAC	T NO. f	60T85		
		PLOT DATE = 12/10/2012	DATE -		REVISED -							ILLINOIS FED. AI	D PROJECT				