08-02-13 LETTING ITEM 016

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	1
	ILLINOIS	CONTRACT NO. 60W23		

INDEX OF SHEETS

SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

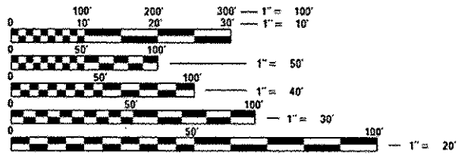
PROPOSED
HIGHWAY PLANS

VARIOUS LOCATIONS IN
NORTHWEST COOK COUNTY, CONTRACT #1
LIGHT EMITTING DIODE (LED) INSTALLATION
SECTION 2013-005-I
COOK COUNTY

C-91-218-13

IDOT STANDARDS

701006-04	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-03	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

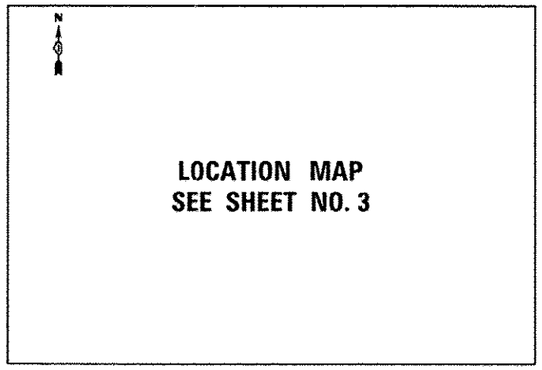


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

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

CONTRACT NO. 60W23



LOCATION MAP
SEE SHEET NO. 3

LOCATION OF SECTION INDICATED THUS: -

JEFFREY A. MEINDL
062-054021
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Signed Jeffrey A Meindl
JEFFREY A. MEINDL, P.E., IL License No. 062-054021
Expires 11/30/2013

Date 5-15-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 17 2013
John Fortman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 28 2013
John D. Baranzelli, P.E. /b
actg
ENGINEER OF DESIGN AND ENVIRONMENT

June 28 2013
Omer Osman, P.E. /b
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

PAGE #	IS #	SHEET NAME
1		TITLE SHEET
2		INDEX OF SHEETS AND GENERAL NOTES
3		LOCATION MAP
4-7		SUMMARY OF QUANTITIES
8-13		IDOT DISTRICT 1 TRAFFIC SIGNAL STANDARDS
14	12540	ARLINGTON HEIGHTS RD @ CENTRAL RD
15	12565	ARLINGTON HEIGHTS RD @ EUCLID AVE
16	12585	ARLINGTON HEIGHTS RD @ LILLIAN
17	12560	ARLINGTON HEIGHTS RD @ MINER
18	12600	ARLINGTON HEIGHTS RD @ NORTH POINT SC
19	12550	ARLINGTON HEIGHTS RD @ SIGWALT
20	12535	ARLINGTON HEIGHTS RD @ WHITE OAK
21	12620	CENTRAL RD @ ARTHUR ST
22	12615	CENTRAL RD @ KIRCHOFF RD
23	2720	IL 58 GOLF RD @ ARLINGTON HEIGHTS RD
24	2765	IL 58 GOLF RD @ GOEBBERT RD
25	2705	IL 58 GOLF RD @ IL 62 ALGONQUIN RD
26	2767	IL 58 GOLF RD @ INTERNATIONAL PLAZA
27	2936	IL 62 ALGONQUIN RD @ 95 WEST/RADDISON/MARRIOT
28	2965	IL 62 ALGONQUIN RD @ GOEBBERT RD
29	2707	IL 62 ALGONQUIN RD @ LOWES
30	2966	IL 62 ALGONQUIN RD @ TONNE RD
31	3100	IL 68 DUNDEE RD @ ARLINGTON HEIGHTS RD
32	3130	IL 68 DUNDEE RD @ KENNICOTT
33	3150	IL 68 DUNDEE RD @ RIDGE AVE
34	3205	IL 68 DUNDEE RD @ WILKE RD/EAST FRONTAGE RD
35	5605	PALATINE RD @ KENNICOTT DR
36	5620	PALATINE RD @ SCHOENBECK
37	5630	PALATINE RD @ WINDSOR DRIVE
38	12700	US 12 RAND RD @ ANNEX
39	12640	US 12 RAND RD @ ARLINGTON PLAZA
40	421	US 12 RAND RD @ BEVERLY
41	415	US 12 RAND RD @ CLARENCE AVE/ DRYDEN AVE
42	12625	US 12 RAND RD @ CUB FOODS
43	400	US 12 RAND RD @ HINTZ RD
44	11295	US 12 RAND RD @ IL 53 E RAMP
45	11290	US 12 RAND RD @ IL 53 W RAMP
46	405	US 12 RAND RD @ KENNICOTT DR
47	12555	US 14 NORTHWEST HWY @ ARLINGTON HTS
48-50	12660	US 14 NORTHWEST HWY @ EUCLID AVE
51	1310	US 14 NORTHWEST HWY @ WILKE RD
52	12667	US 14 NORTHWEST HWY @ DRYDEN PL
53	12670	US 14 NORTHWEST HWY @ KENSINGTON RD DOUGLAS
54	9653	BUSSE RD @ CENTRAL RD
55	9654	CENTRAL RD @ 3 COM
56	5090	EUCLID AVE @ WOLF RD
57	5120	FOUNDRY KENSINGTON @ WOLF RD
58	2740	IL 58 GOLF RD @ BUSSE RD
59	2715	IL 58 GOLF RD @ IL 83 ELMHURST RD
60	21355	IL 62 ALGONQUIN RD @ BRIARWOOD
61	2925	IL 62 ALGONQUIN RD @ IL 83 ELMHURST
62	9665	IL 83 ELMHURST RD @ COUNCIL TRAIL
63	3420	IL 83 ELMHURST RD @ EUCLID AVE
64	3535	IL 83 ELMHURST RD @ HUNTINGTON COMMONS
65	9670	IL 83 ELMHURST RD @ LINCOLN ST
66	9625	IL 83 ELMHURST RD @ LONNQUIST BLVD
67	3500	IL 83 ELMHURST RD @ RANDHURST SHOPPING CENTER
68	5390	KENSINGTON @ WHEELING RD
69	2875	IL 58 GOLF RD @ MEIER RD
70-75	380	US 12 RAND RD @ IL 83 ELMHURST RD & FOUNDRY
76	392	US 12 RAND RD @ SCHOENBECK RD
77-81	9630	US 14 NORTHWEST HWY @ IL 83 ELMHURST RD
82	1712	US 45 DES PLAINES RIVER RD @ CAMP MC DONALD RD
83	1680	US 45 DES PLAINES RIVER RD @ EUCLID
84	1685	US 45 DES PLAINES RIVER RD @ KENSINGTON/FOUNDRY
85	420	US 12 RAND RD @ THOMAS AVE/WILLOW RD

GENERAL NOTES

1. CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION, AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE TRAFFIC SIGNAL POST, GALVANIZED STEEL PAY ITEM OF THE LENGTH AS SPECIFIED IN THE PLANS.

2. IT SHALL BE THE CONTRACTOR'S RESPONISBLITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE VERIFYING THE EXISTING BOLT PATTERN ON EXISTING FOUNDATIONS SPECIFIED TO BE RE-USED.

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

4. ANY ADDITIONAL CABLE LENGTHS NECESSARY FOR THE PROPER INSTALLATION OF AN UNINTERUPTIBLE POWER SUPPLY, GROUND MOUNTED DUE TO THE LARGER DISTANCE AWAY FROM THE CONTROLLER CABINET SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNINTERUPTIBLE POWER SUPPLY, GROUND MOUNTED PAY ITEM..

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

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

7. CONTRACTOR SHALL REPLACE 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.

8. THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT FROM AN EXISTING TRAFFIC SIGNAL CONTROLLER CABINET TO A NEW TRAFFIC SIGNAL CONTROLLER CABINET, AS INDICATED IN THE PLANS. THE WORK SHALL INCLUDE DISCONNECTING THE EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT(S) AND RECONNECTING IT TO A NEW WIRING HARNESS WHICH IS TO BE FACTORY WIRED INTO THE NEW TRAFFIC SIGNAL CONTROLLER CABINET. THE EMERGENCY VEHICLE SYSTEM IS NOT TO BE INOPERATIVE FOR MORE THAN 8 HOURS AND THE CONTRACTOR MUST NOTIFY THE MUNICIPALITY OR FIRE PROTECTION DISTRICT 72 HOURS PRIOR TO THE DISCONNECTION OF THE EQUIPMENT. THE CONTRACTOR MUST DEMONSTRATE TO THE SATISFACTION OF THE ENGINEER THAT THE EMERGENCY VEHICLE SYSTEM OPERATES PROPERLY.

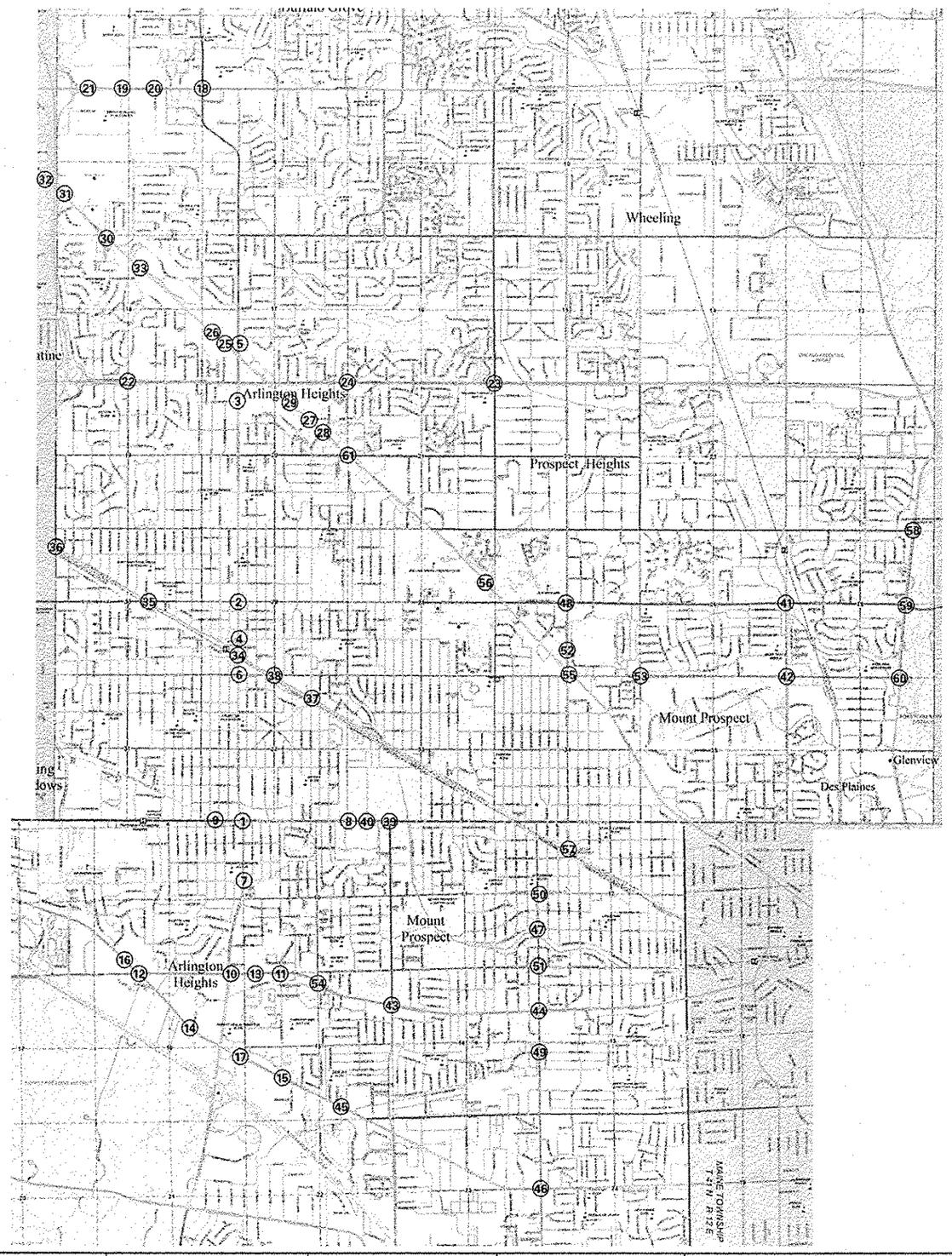
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND GENERAL NOTES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	2
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		



	TS *	LOCATION
1	12540	ARLINGTON HEIGHTS RD @ CENTRAL RD
2	12565	ARLINGTON HEIGHTS RD @ EUCLID AVE
3	12585	ARLINGTON HEIGHTS RD @ LILLIAN
4	12560	ARLINGTON HEIGHTS RD @ MINER
5	12600	ARLINGTON HEIGHTS RD @ NORTH POINT SC
6	12550	ARLINGTON HEIGHTS RD @ SIGWALT
7	12535	ARLINGTON HEIGHTS RD @ WHITE OAK
8	12620	CENTRAL RD @ ARTHUR ST
9	12615	CENTRAL RD @ KIRCHOFF RD
10	2720	IL 58 GOLF RD @ ARLINGTON HEIGHTS RD
11	2765	IL 58 GOLF RD @ GOEBBERT RD
12	2705	IL 58 GOLF RD @ IL 62 ALGONQUIN RD
13	2767	IL 58 GOLF RD @ INTERNATIONAL PLAZA
14	2936	IL 62 ALGONQUIN RD @ 95 WEST/RADDISON/MARRIOT
15	2965	IL 62 ALGONQUIN RD @ GOEBBERT RD
16	2707	IL 62 ALGONQUIN RD @ LOWES
17	2966	IL 62 ALGONQUIN RD @ TONNE RD
18	3100	IL 68 DUNDEE RD @ ARLINGTON HEIGHTS RD
19	3130	IL 68 DUNDEE RD @ KENNICOTT
20	3150	IL 68 DUNDEE RD @ RIDGE AVE
21	3205	IL 68 DUNDEE RD @ WILKE RD/EAST FRONTAGE RD
22	5605	PALATINE RD @ KENNICOTT DR
23	5620	PALATINE RD @ SCHOENBECK
24	5630	PALATINE RD @ WINDSOR DRIVE
25	12700	US 12 RAND RD @ ANNEX
26	12640	US 12 RAND RD @ ARLINGTON PLAZA
27	421	US 12 RAND RD @ BEVERLY
28	415	US 12 RAND RD @ CLARENCE AVE/ DRYDEN AVE
29	12625	US 12 RAND RD @ CUB FOODS
30	400	US 12 RAND RD @ HINTZ RD
31	11295	US 12 RAND RD @ IL 53 E RAMP
32	11290	US 12 RAND RD @ IL 53 W RAMP
33	405	US 12 RAND RD @ KENNICOTT DR
34	12555	US 14 NORTHWEST HWY @ ARLINGTON HTS
35	12660	US 14 NORTHWEST HWY @ EUCLID AVE
36	1310	US 14 NORTHWEST HWY @ WILKE RD
37	12667	US 14 NORTHWEST HWY @ DRYDEN PL
38	12670	US 14 NORTHWEST HWY @ KENSINGTON RD DOUGLAS
39	9653	BUSSE RD @ CENTRAL RD
40	9654	CENTRAL RD @ 3 COM
41	5090	EUCLID AVE @ WOLF RD
42	5120	FOUNDRY KENSINGTON @ WOLF RD
43	2740	IL 58 GOLF RD @ BUSSE RD
44	2715	IL 58 GOLF RD @ IL 83 ELMHURST RD
45	21355	IL 62 ALGONQUIN RD @ BRIARWOOD
46	2925	IL 62 ALGONQUIN RD @ IL 83 ELMHURST
47	9665	IL 83 ELMHURST RD @ COUNCIL TRAIL
48	3420	IL 83 ELMHURST RD @ EUCLID AVE
49	3535	IL 83 ELMHURST RD @ HUNTINGTON COMMONS
50	9670	IL 83 ELMHURST RD @ LINCOLN ST
51	9625	IL 83 ELMHURST RD @ LONNQUIST BLVD
52	3500	IL 83 ELMHURST RD @ RANDHURST SHOPPING CENTER
53	5390	KENSINGTON @ WHEELING RD
54	2875	IL 58 GOLF RD @ MEIER RD
55	380	US 12 RAND RD @ IL 83 ELMHURST RD & FOUNDRY
56	392	US 12 RAND RD @ SCHOENBECK RD
57	9630	US 14 NORTHWEST HWY @ IL 83 ELMHURST RD
58	1712	US 45 DES PLAINES RIVER RD @ CAMP MC DONALD RD
59	1680	US 45 DES PLAINES RIVER RD @ EUCLID
60	1685	US 45 DES PLAINES RIVER RD @ KENSINGTON/FOUNDRY
61	420	US 12 RAND RD @ THOMAS AVE/WILLOW RD

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -
		DRAWN -	REVISED -
#MODELNAME#	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-1	COOK	85	3
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

COLUMN NUMBER	TS NO.	INTERSECTION	FUNDING PARTICIPATION		
			STATE	ARLINGTON HEIGHTS	JP MORGAN CHASE
1	12540	ARLINGTON HEIGHTS RD @ CENTRAL RD	100%	0%	
2	12565	ARLINGTON HEIGHTS RD @ EUCLID AVE	95%	5%	
2	12585	ARLINGTON HEIGHTS RD @ LILLIAN	95%	5%	
2	12560	ARLINGTON HEIGHTS RD @ MINER	95%	5%	
2	12600	ARLINGTON HEIGHTS RD @ NORTH POINT SC	95%	5%	
2	12550	ARLINGTON HEIGHTS RD @ SIGWALT	95%	5%	
2	12535	ARLINGTON HEIGHTS RD @ WHITE OAK	95%	5%	
2	12620	CENTRAL RD @ ARTHUR ST	95%	5%	
1	12615	CENTRAL RD @ KIRCHOFF RD	100%	0%	
1	2720	IL 58 GOLF RD @ ARLINGTON HEIGHTS RD	100%	0%	
2	2765	IL 58 GOLF RD @ GOEBBERT RD	95%	5%	
1	2705	IL 58 GOLF RD @ IL 62 ALGONQUIN RD	100%	0%	
7	2767	IL 58 GOLF RD @ INTERNATIONAL PLAZA	95%		5%
2	2936	IL 62 ALGONQUIN RD @ 95 WEST/RADDISON/MARRIOT	95%	5%	
2	2965	IL 62 ALGONQUIN RD @ GOEBBERT RD	95%	5%	
2	2707	IL 62 ALGONQUIN RD @ LOWES	95%	5%	
2	2966	IL 62 ALGONQUIN RD @ TONNE RD	95%	5%	
1	3100	IL 68 DUNDEE RD @ ARLINGTON HEIGHTS RD	100%	0%	
2	3130	IL 68 DUNDEE RD @ KENNICOTT	95%	5%	
2	3150	IL 68 DUNDEE RD @ RIDGE AVE	95%	5%	
1	3205	IL 68 DUNDEE RD @ WILKE RD/EAST FRONTAGE RD	100%	0%	
2	5605	PALATINE RD @ KENNICOTT DR	95%	5%	
1	5620	PALATINE RD @ SCHOENBECK	100%	0%	
2	5630	PALATINE RD @ WINDSOR DRIVE	95%	5%	
2	12700	US 12 RAND RD @ ANNEX	95%	5%	
2	12640	US 12 RAND RD @ ARLINGTON PLAZA	95%	5%	
2	421	US 12 RAND RD @ BEVERLY	95%	5%	
2	415	US 12 RAND RD @ CLARENCE AVE/ DRYDEN AVE	95%	5%	
2	12625	US 12 RAND RD @ CUB FOODS	95%	5%	
2	400	US 12 RAND RD @ HINTZ RD	95%	5%	
1	11295	US 12 RAND RD @ IL 53 E RAMP	100%	0%	
1	11290	US 12 RAND RD @ IL 53 W RAMP	100%	0%	
3	405	US 12 RAND RD @ KENNICOTT DR	96.7%	3.3%	
1	12555	US 14 NORTHWEST HWY @ ARLINGTON HTS	100%	0%	
1	12660	US 14 NORTHWEST HWY @ EUCLID AVE	100%	0%	
1	1310	US 14 NORTHWEST HWY @ WILKE RD	100%	0%	
3	12667	US 14 NORTHWEST HWY @ DRYDEN PL	96.7%	3.3%	
3	12670	US 14 NORTHWEST HWY @ KENSINGTON RD DOUGLAS	96.7%	3.3%	

COLUMN NUMBER	TS NO.	INTERSECTION	FUNDING PARTICIPATION		
			STATE	MOUNT PROSPECT	CASTO
6	9653	BUSSE RD @ CENTRAL RD	97.5%	2.5%	
4	9654	CENTRAL RD @ 3 COM	95%	5%	
6	5090	EUCLID AVE @ WOLF RD	97.5%	2.5%	
4	5120	FOUNDRY KENSINGTON @ WOLF RD	95%	5%	
1	2740	IL 58 GOLF RD @ BUSSE RD	100%	0%	
1	2715	IL 58 GOLF RD @ IL 83 ELMHURST RD	100%	0%	
4	21355	IL 62 ALGONQUIN RD @ BRIARWOOD	95%	5%	
1	2925	IL 62 ALGONQUIN RD @ IL 83 ELMHURST	100%	0%	
4	9665	IL 83 ELMHURST RD @ COUNCIL TRAIL	95%	5%	
1	3420	IL 83 ELMHURST RD @ EUCLID AVE	100%	0%	
5	3535	IL 83 ELMHURST RD @ HUNTINGTON COMMONS	96.7%	3.3%	
5	9670	IL 83 ELMHURST RD @ LINCOLN ST	96.7%	3.3%	
4	9625	IL 83 ELMHURST RD @ LONNQUIST BLVD	95%	5%	
8	3500	IL 83 ELMHURST RD @ RANDHURST SHOPPING CENTER	95%		5%
4	5390	KENSINGTON @ WHEELING RD	95%	5%	
4	2875	IL 58 GOLF RD @ MEIER RD	95%	5%	
1	380	US 12 RAND RD @ IL 83 ELMHURST RD & FOUNDRY	100%	0%	
5	392	US 12 RAND RD @ SCHOENBECK RD	96.7%	3.3%	
1	9630	US 14 NORTHWEST HWY @ IL 83 ELMHURST RD	100%	0%	
1	1712	US 45 DES PLAINES RIVER RD @ CAMP MC DONALD RD	100%	0%	
1	1680	US 45 DES PLAINES RIVER RD @ EUCLID	100%	0%	
1	1685	US 45 DES PLAINES RIVER RD @ KENSINGTON/FOUNDRY	100%	0%	
1	420	US 12 RAND RD @ THOMAS AVE/WILLOW RD	100%	0%	

FILE NAME = *FILEL*
MODELNAME

USER NAME = *USER* | DESIGNED - | REVISED -
DRAWN - | REVISED -
PLOT SCALE = *SCALE* | CHECKED - | REVISED -
PLOT DATE = *DATE* | DATE - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 1 OF 4

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	4
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

51

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 1 (0TRAFFIC SIGNAL 0021 URBAN)	2 (0TRAFFIC SIGNAL 0021 URBAN)	3 (0TRAFFIC SIGNAL 0021 URBAN)	4 (0TRAFFIC SIGNAL 0021 URBAN)	5 (0TRAFFIC SIGNAL 0021 URBAN)	6 (0TRAFFIC SIGNAL 0021 URBAN)	7 (0TRAFFIC SIGNAL 0021 URBAN)	8 (0TRAFFIC SIGNAL 0021 URBAN)
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6							
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	61	22	22	3	7	3	2	1	1
67100100	MOBILIZATION	L SUM	1	1							
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4	3					1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1							
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	16	5	10		1				
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	45	12	25	1	1	3	3		
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	6	1	3	1		1			
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	57	18	29	1	6	3			
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	59	17	32	2	3	1	4		
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	2							
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1	1							
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	36	11	15		3	1	4	2	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	61	20	37	1	2	1			
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	21	8	10	1				2	
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5	4	1						
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	37	5	25	1		2	4		
88030250	SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1	1							
88030310	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	1		1					

Rev.

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -
		DRAWN -	REVISED -
MODEL NAME	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = *DATE*	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 2 OF 4

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-1	COOK	85	5
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 1	2	3	4	5	6	7	8
				TRAFFIC SIGNAL 0021 URBAN							
88030330	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1		1						
88055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9	4	4			1			
88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	31	25	6						
88055200	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1	1							
88055350	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	2							
88060110	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	7	7							
88060130	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED	EACH	1	1							
88060180	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1	1							
88060390	COMBINATION SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 2-3 SECTION, BRACKET MOUNTED	EACH	1	1							
88060410	COMBINATION SIGNAL HEAD, LED, 3- FACE, 2-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	2	2							
88060415	COMBINATION SIGNAL HEAD, LED, 3- FACE, 2-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED	EACH	1	1							
88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	4			4					
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	100	16	42	6	28		6		2
88102740	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	2			2					
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	52	20	16		8		4	4	
88102757	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	2							

110

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -
		DRAWN -	REVISED -
MODELNAME	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = *DATE*	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SHEET 3 OF 4

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	6
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 1	2	3	4	5	6	7	8
				TRAFFIC SIGNAL 0021 URBAN							
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	157	67	72	2	8	4	4		
88800100	PEDESTRIAN PUSH-BUTTON	EACH	185	60	59	12	36	3	9	4	2
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	6	1	3	1		1			
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	52	16	20	3	6	3	2	1	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	57	19	22	3	7	2	2	1	1
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	6	3	2		1				
X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	55	16	22	3	7	3	2	1	1
X8803040	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	12	6	3		1	2			
X8803082	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	17	1	4		10	2			
X8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	92	27	29		23	3	2	8	
X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	59	21	15		15	1	5	2	
X8803090	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1	1							
X8803110	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2						2		
X8803120	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	2						2		
X8803210	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	30	5	10		13	1	1		
X8803910	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT	EACH	8	6	1				1		
Z0076604	TRAINEES- TRAINING PROGRAM GRADUATE	HOUR	500	500							

Rev.

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES SHEET 4 OF 4
$MODELNAME$		DRAWN -	REVISED -		SCALE: NONE SHEET OF SHEETS STA. TO STA.
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -		
	PLOT DATE = $DATE$	DATE -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	7
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 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.

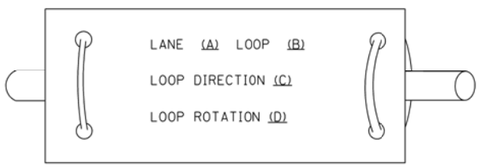
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

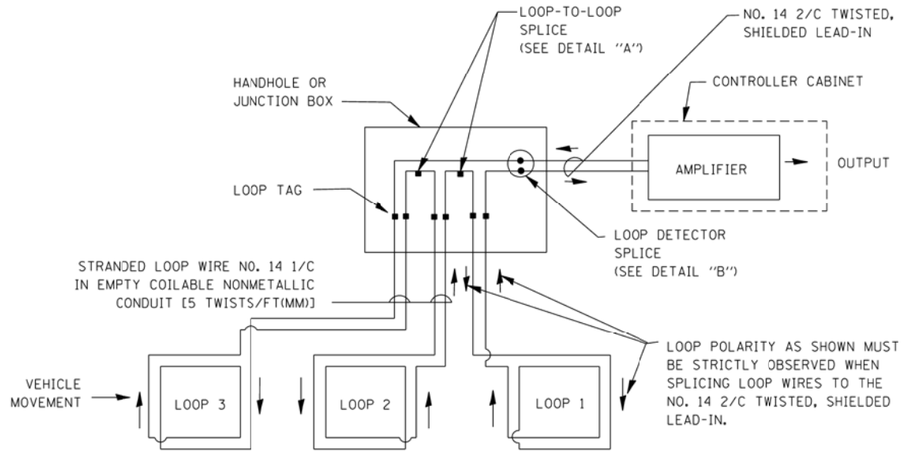


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

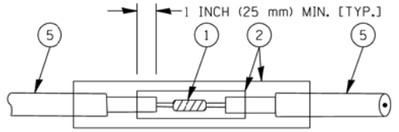
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

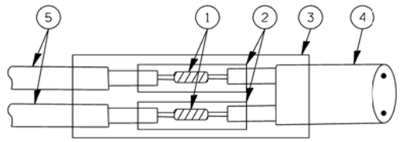


DETECTOR LOOP WIRING SCHEMATIC

- 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.

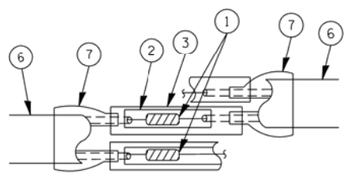


DETAIL "A"
LOOP-TO-LOOP SPLICE



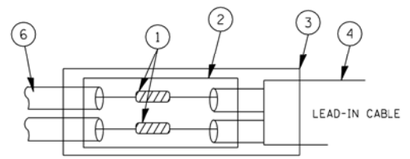
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

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

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

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

FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112614\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

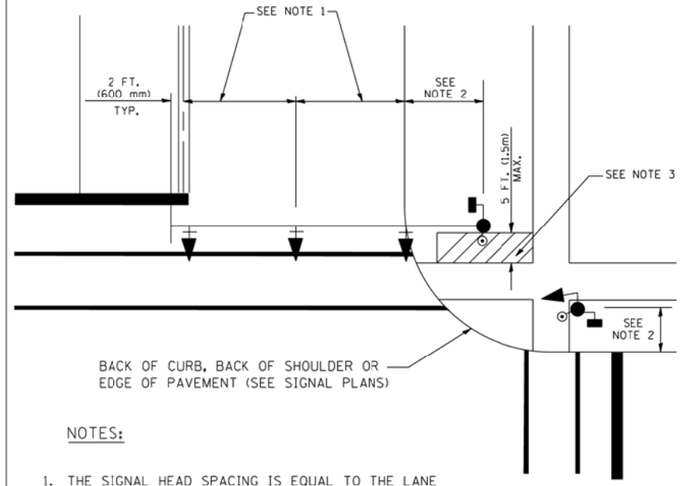
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	8
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

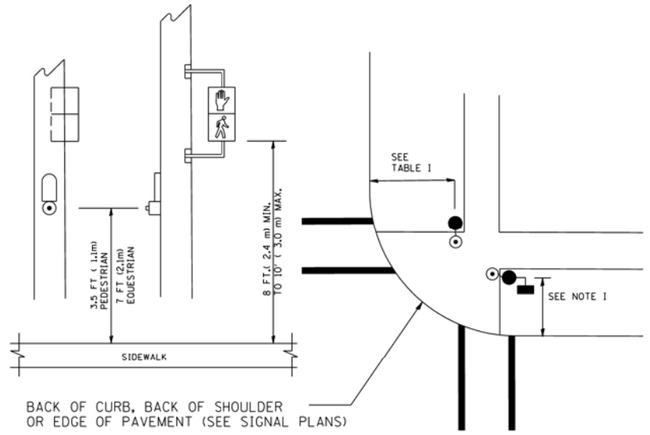
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

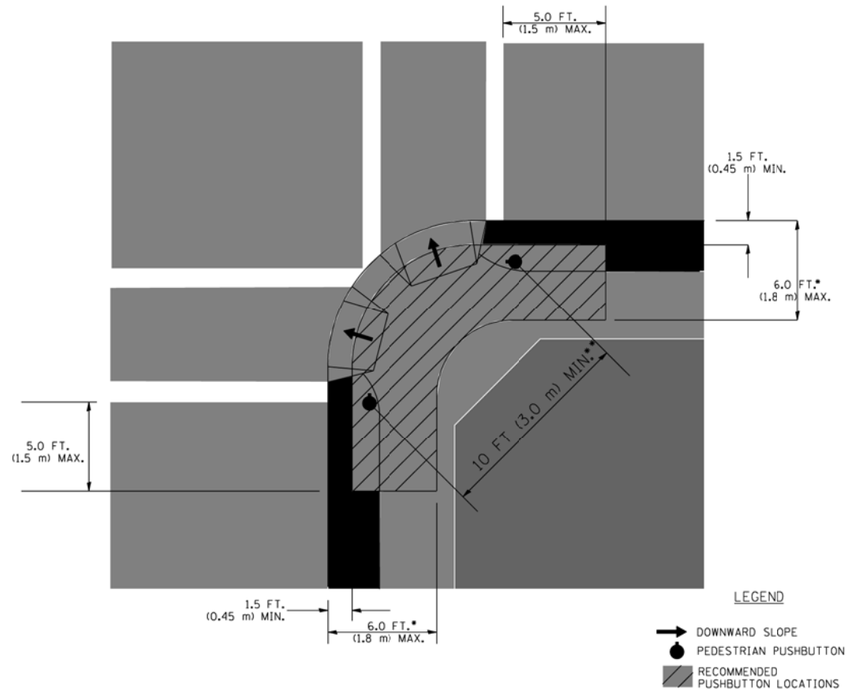
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

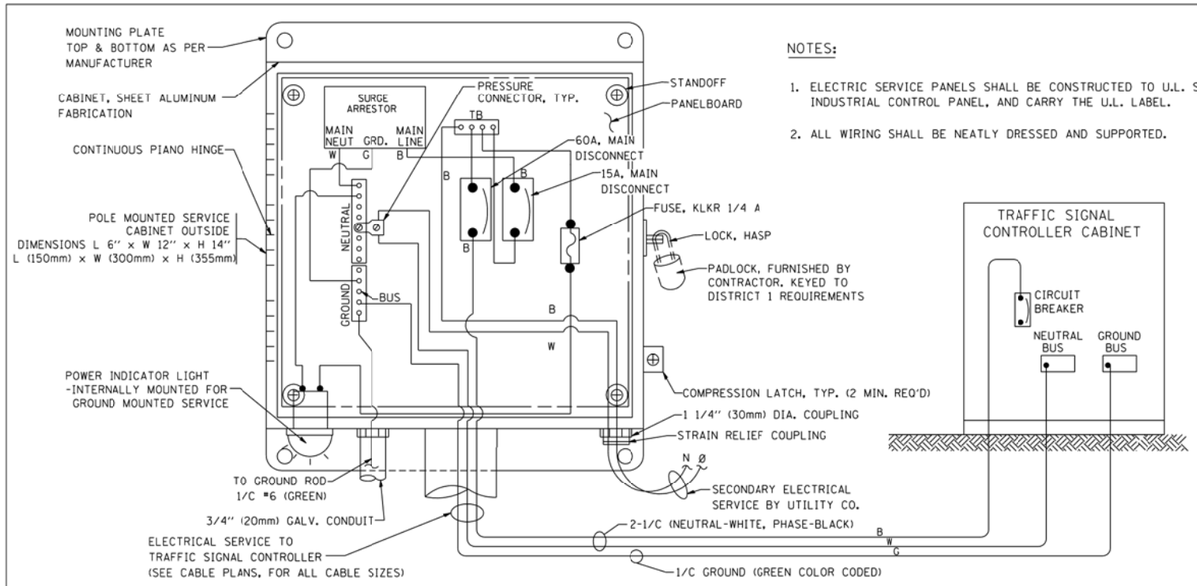
FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112614\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAG	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	9
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



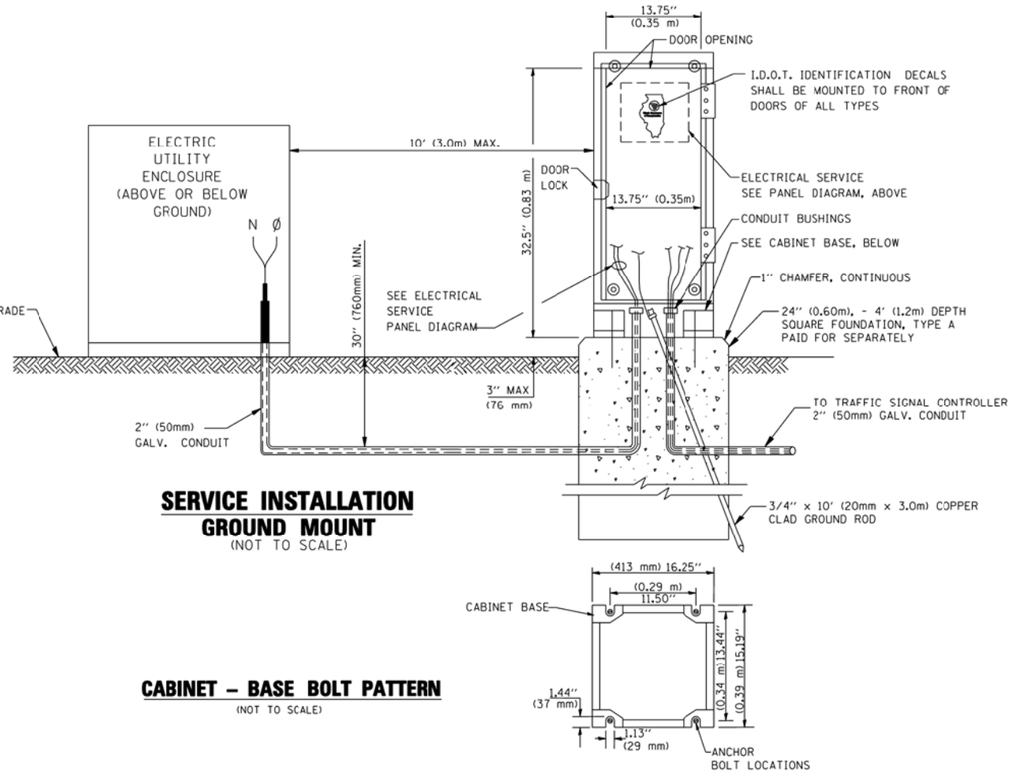
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

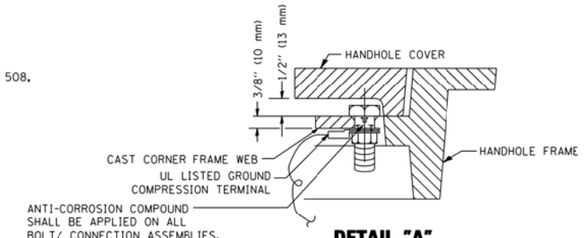


SERVICE INSTALLATION GROUND MOUNT

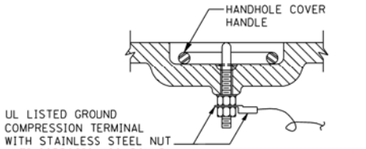
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

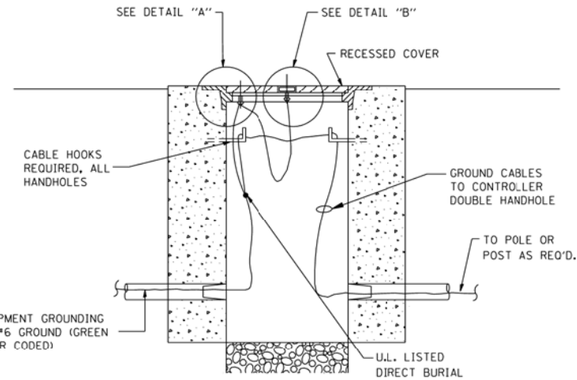
(NOT TO SCALE)



DETAIL "A"

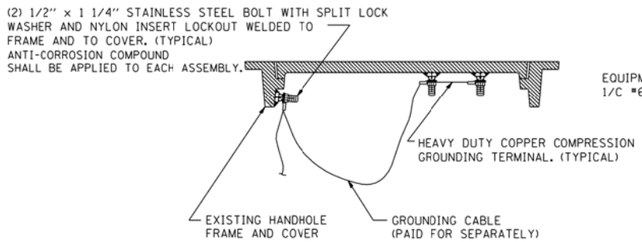


DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



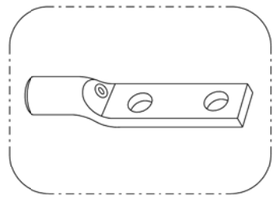
EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

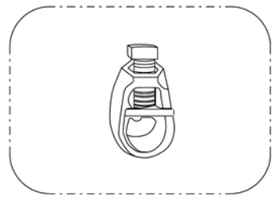
NOTES:

GROUNDING SYSTEM

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



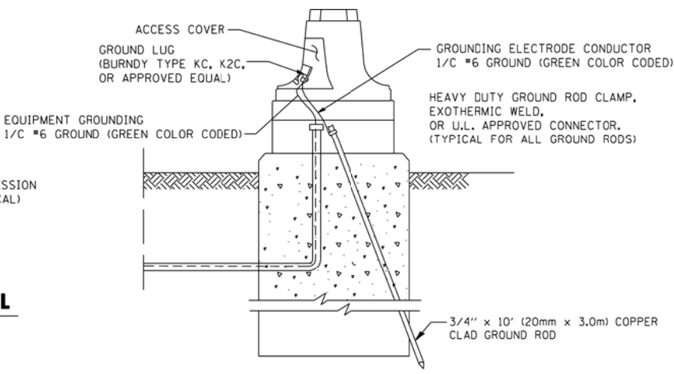
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

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



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

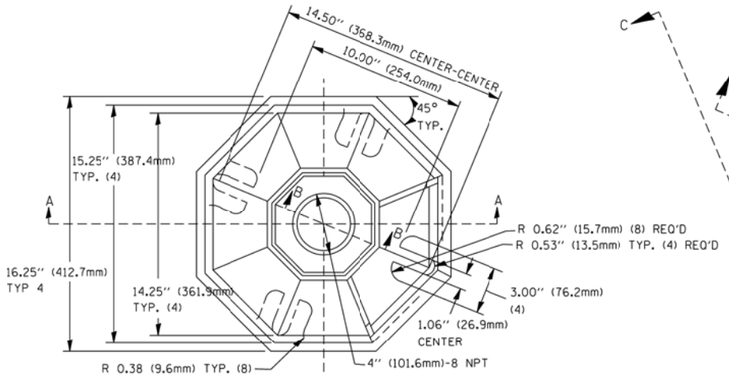
FILE NAME = c:\pw_work\PWIDOT\KANTHAPH\XAYBC\d0112614\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

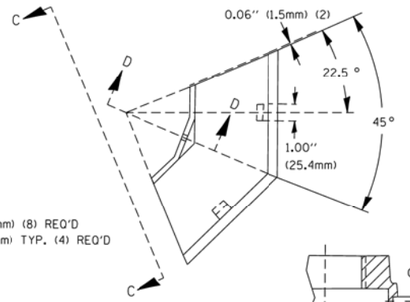
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

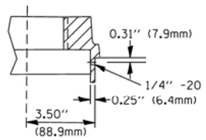
SCALE: | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	10
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

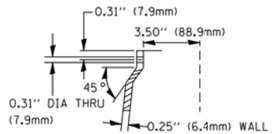


TOP VIEW

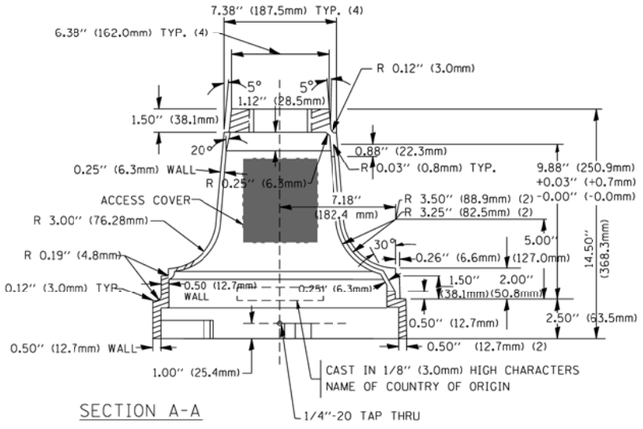




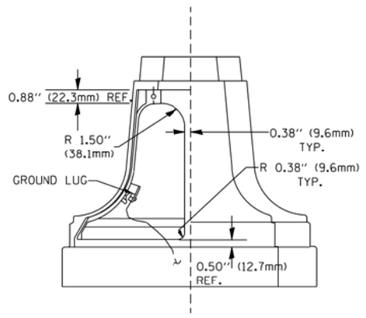
SECTION B-B



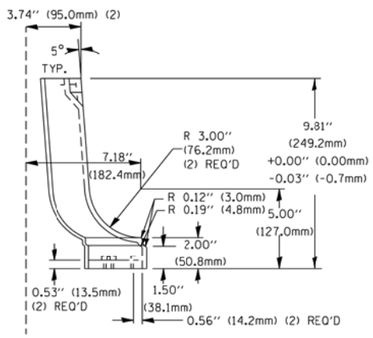
SECTION D-D



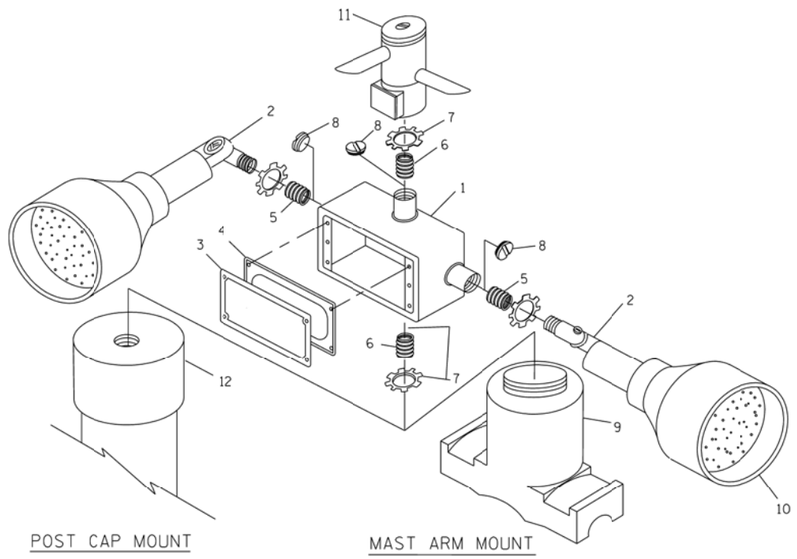
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

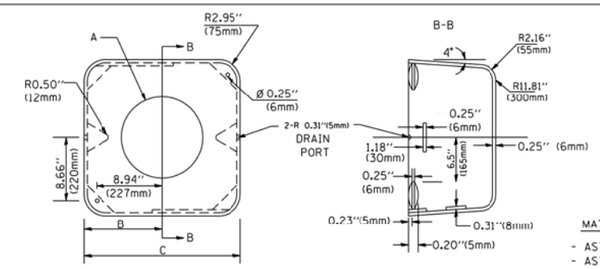


EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP (18 FT. (5.4 m) POST MIN.)

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



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

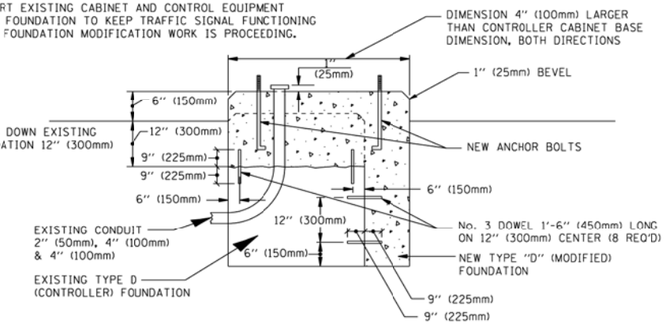
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

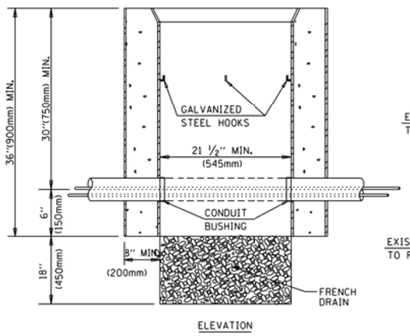
NOTES:

1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL 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.

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



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

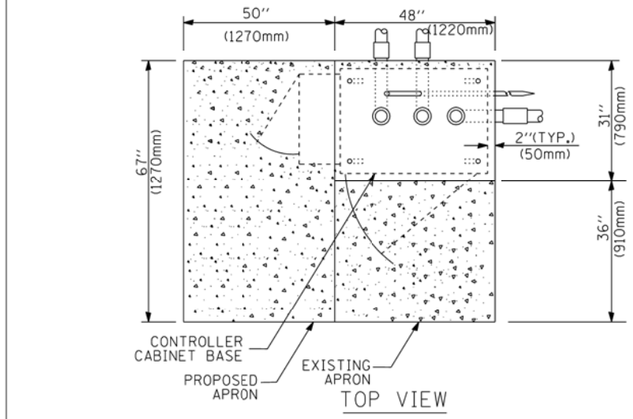
FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112644\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAG	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

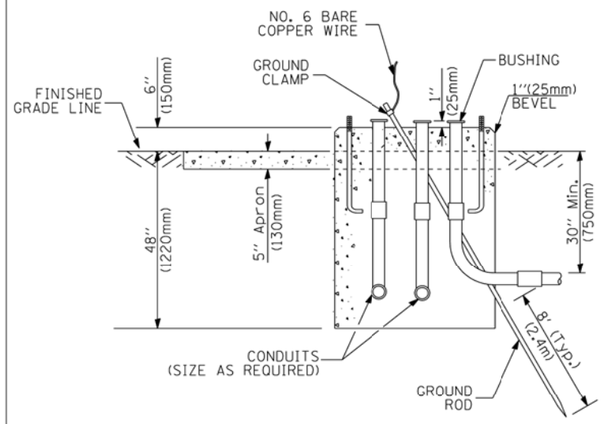
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

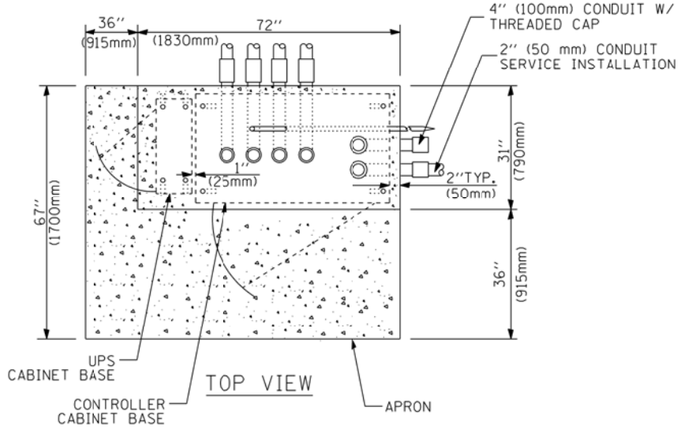
SCALE: | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

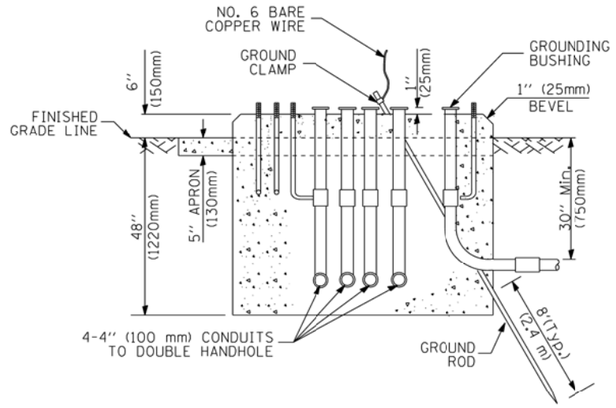
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	11
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



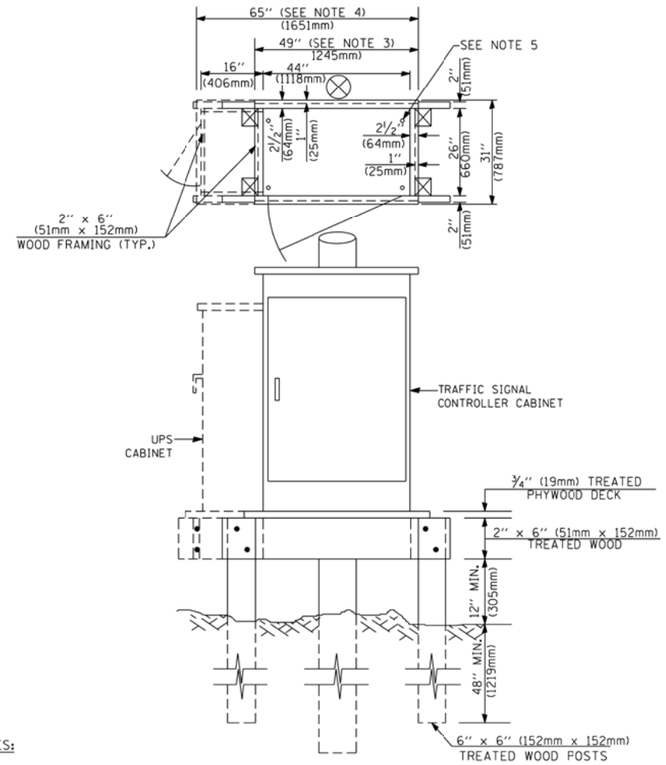


TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET





TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	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 Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112644\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAG	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE:	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	12
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		BCK	BCK
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G Y G	R Y G Y G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G Y G "P"	R Y G Y G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		I	I
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET	BCK	BCK
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112644\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAG/BCK	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

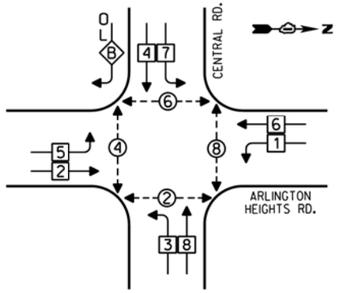
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	13
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE

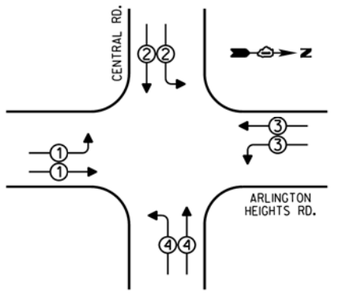


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

EMERGENCY VEHICLE PREEMPTION SEQUENCE

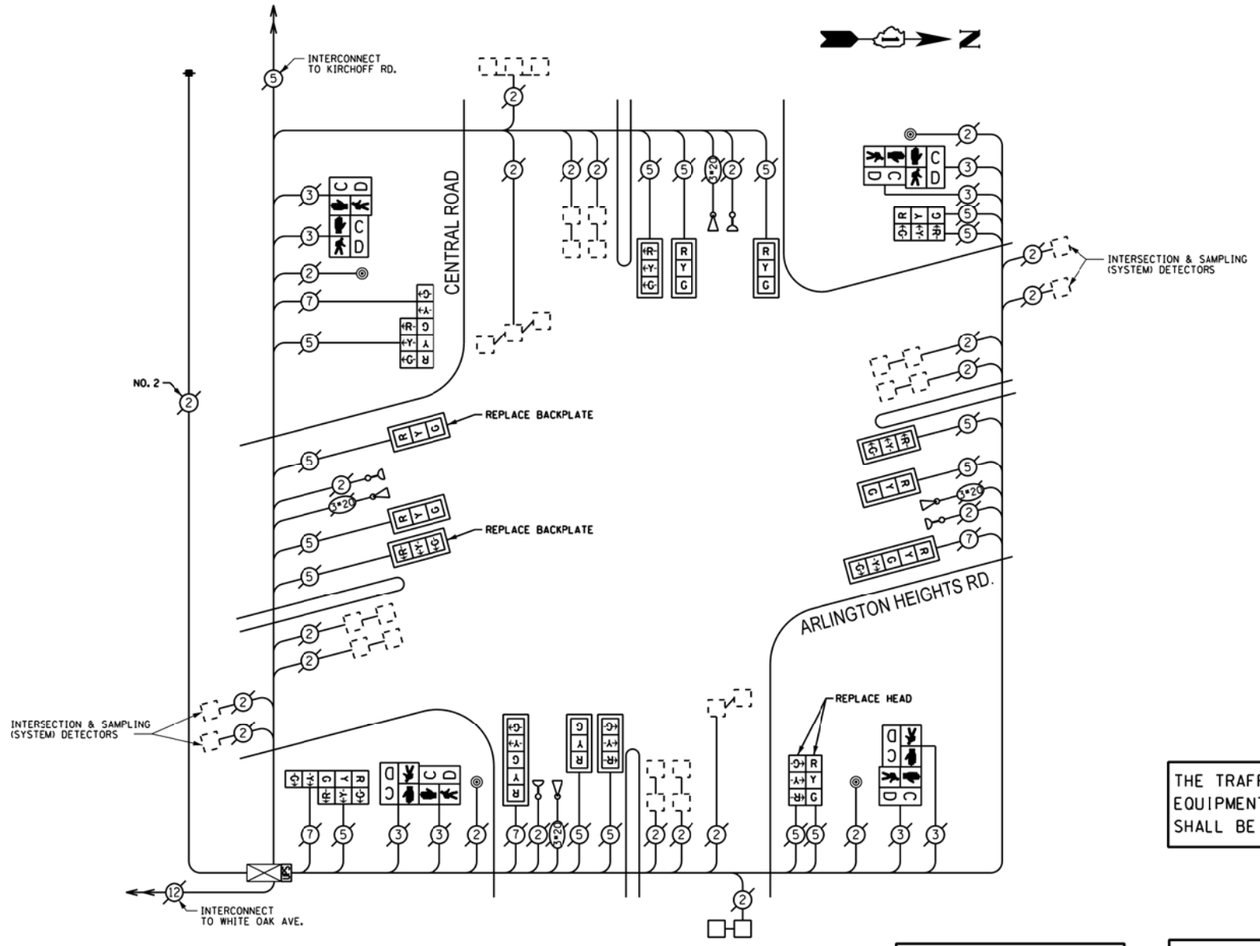


EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	1	2	3	4
MOVEMENT				

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATIONS	
SIGNAL (RED)	20		17	0.50	170.00
(YELLOW)	20		25	0.25	125.00
(GREEN)	20		15	0.25	75.00
ARROW	8		12	0.10	9.60
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	679.60

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED



CABLE PLAN

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

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS EXCEPT AS NOTED

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

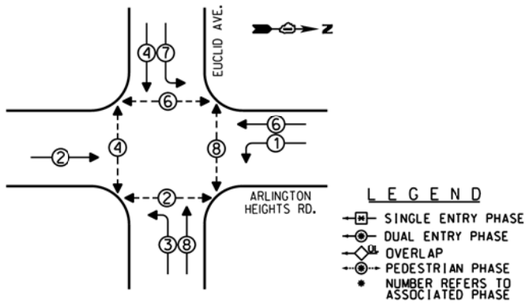
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, ARLINGTON HEIGHTS ROAD AT CENTRAL ROAD

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

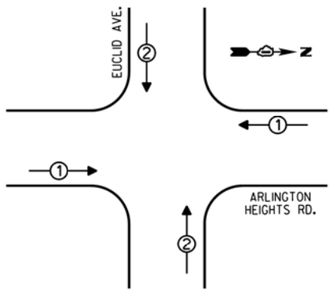
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	14
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

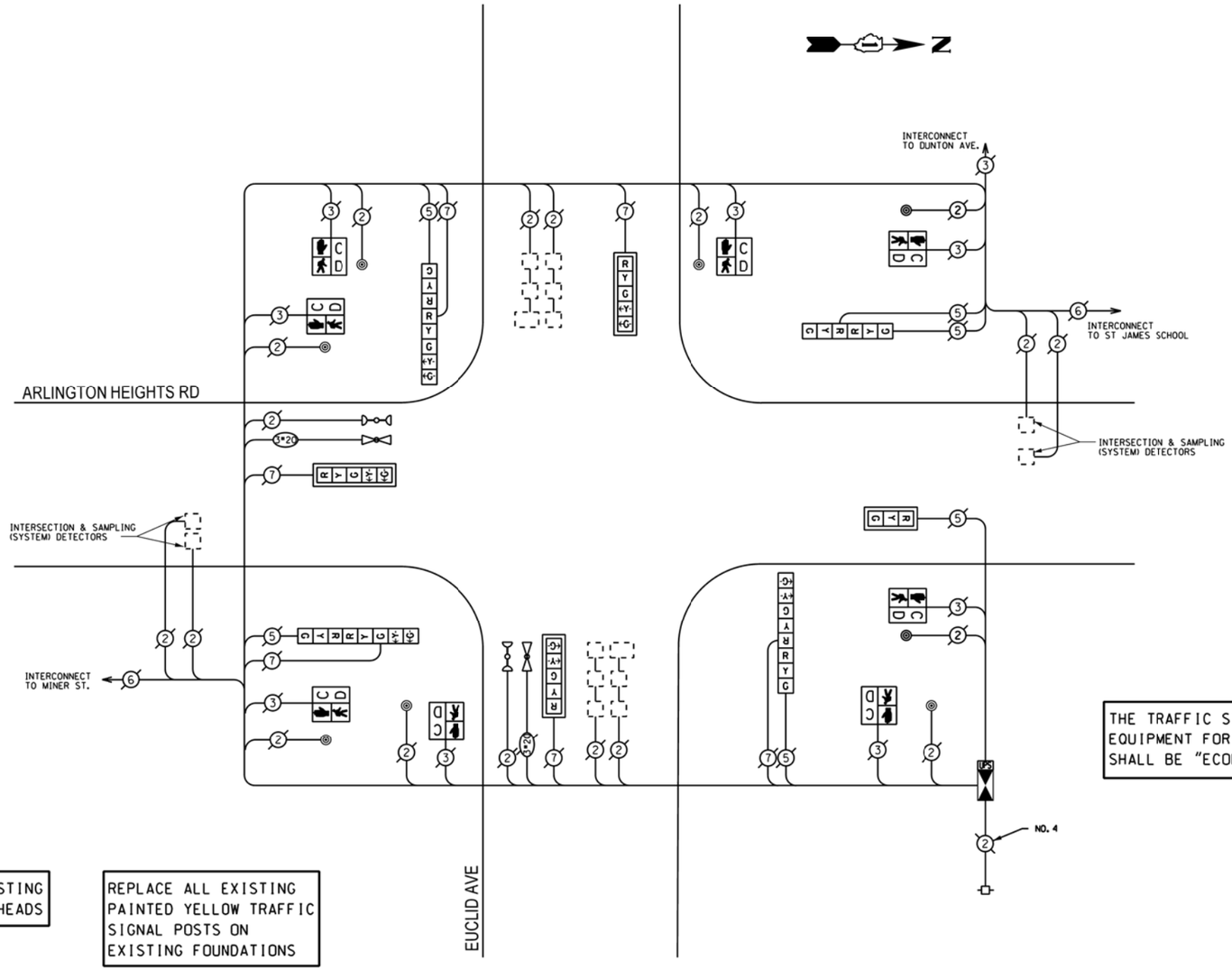


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	← →	↓ ↑



REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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

CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	12		12	0.10	14.40
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	536.40

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
1	EACH	CONTROLLER AND CABINET (COMPLETE)
3	EACH	TRAFFIC SIGNAL POST
1	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
3	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
3	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
8	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

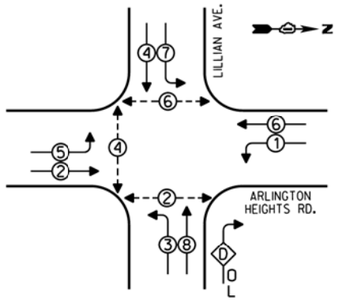
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, ARLINGTON HEIGHTS ROAD AT EUCLID AVENUE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	15
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

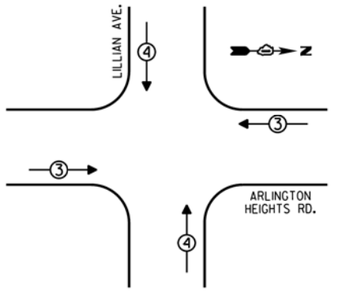


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

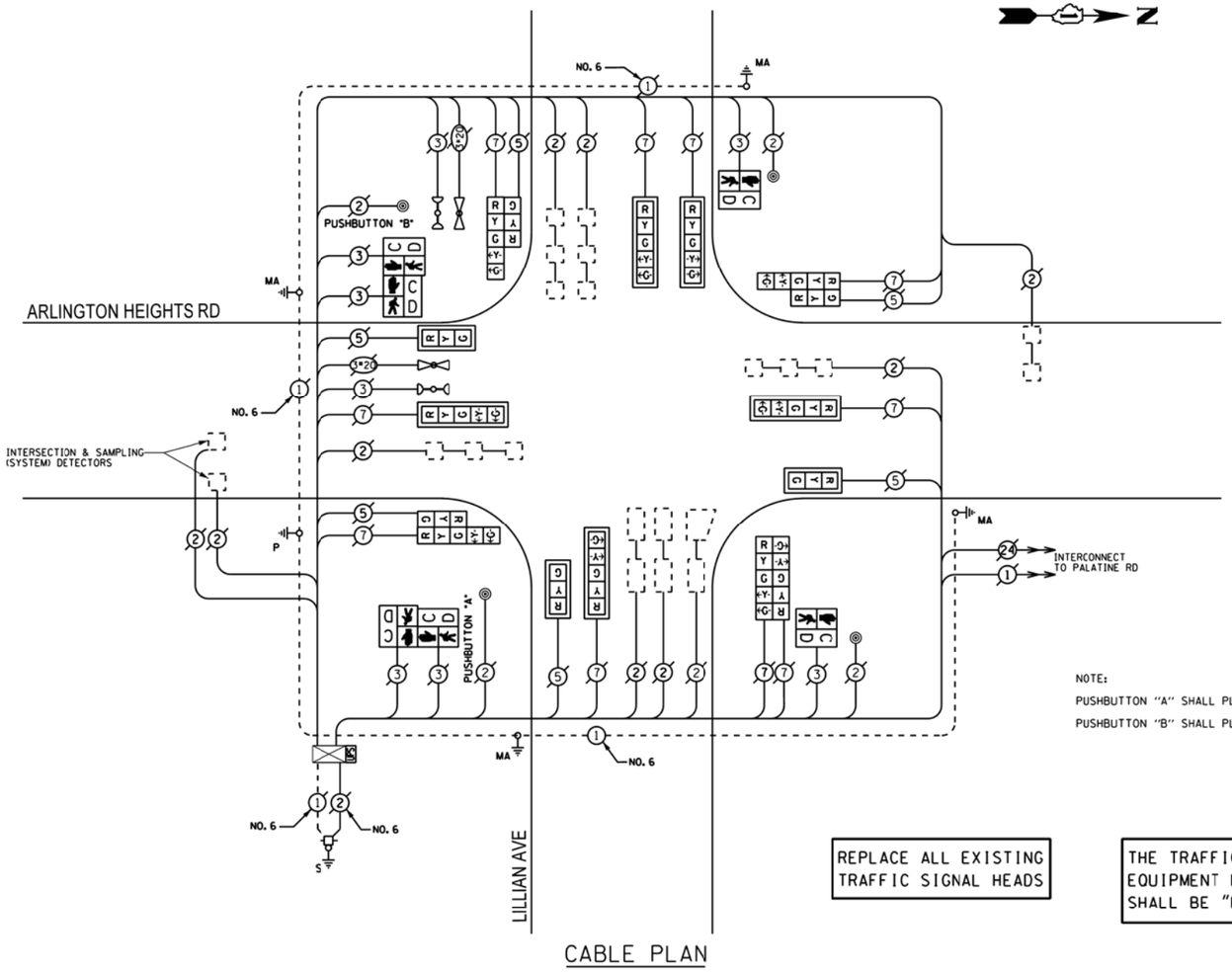
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

NOTE:

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

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

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

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

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	20		12	0.10	24.00
PED. SIGNAL	6		25	1.00	150.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	570.00

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

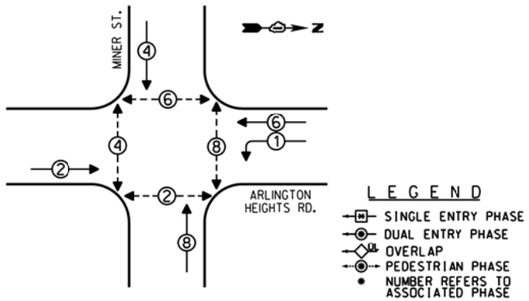
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
ARLINGTON HEIGHTS ROAD AT LILLIAN AVENUE

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

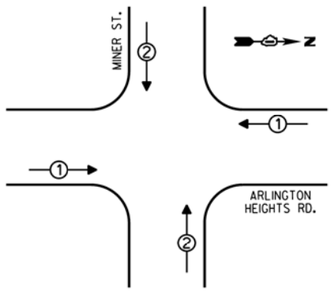
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	16
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

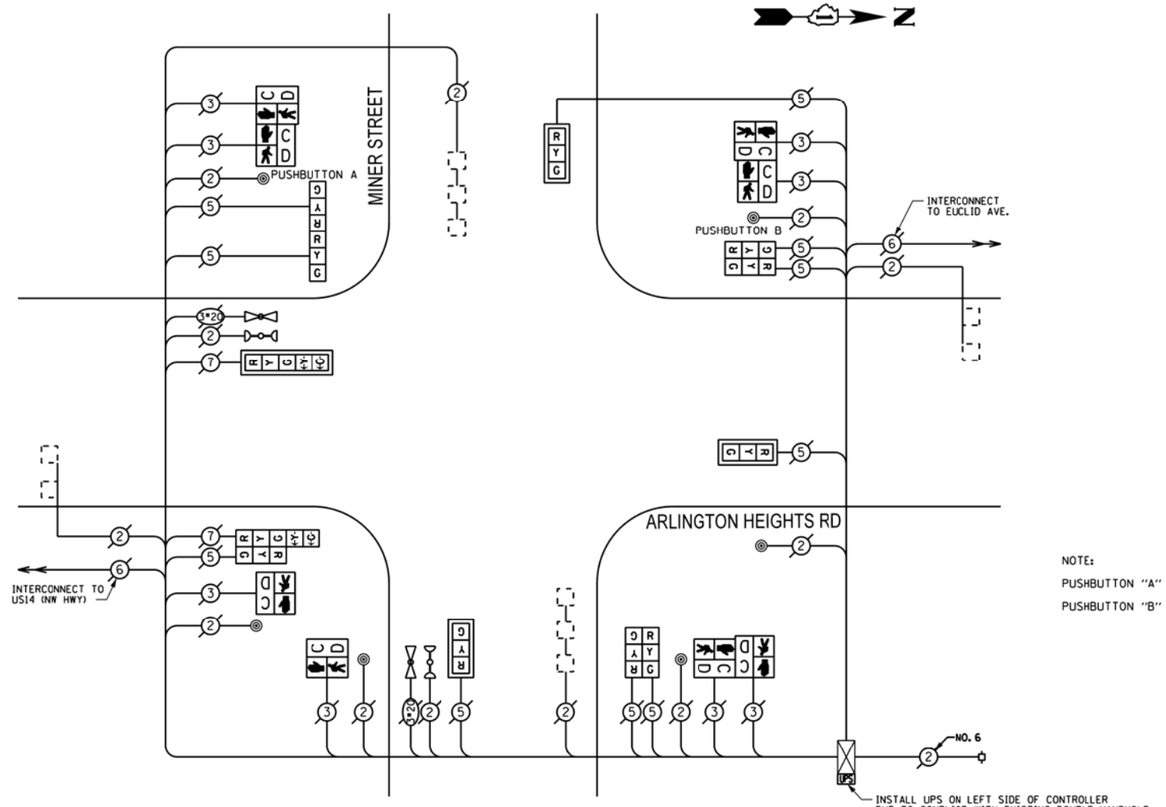


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇆	↓↑



CABLE PLAN

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

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	4		12	0.10	4.80
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	526.80

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

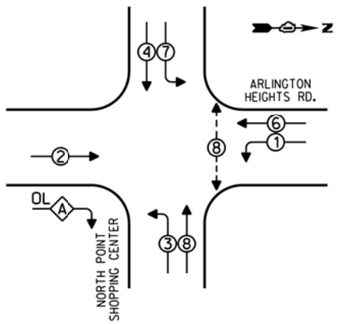
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, ARLINGTON HEIGHTS ROAD AT MINER STREET

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	17
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

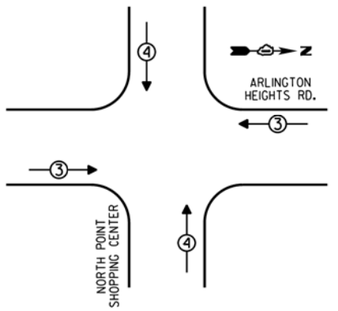


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3

EMERGENCY VEHICLE PREEMPTION SEQUENCE

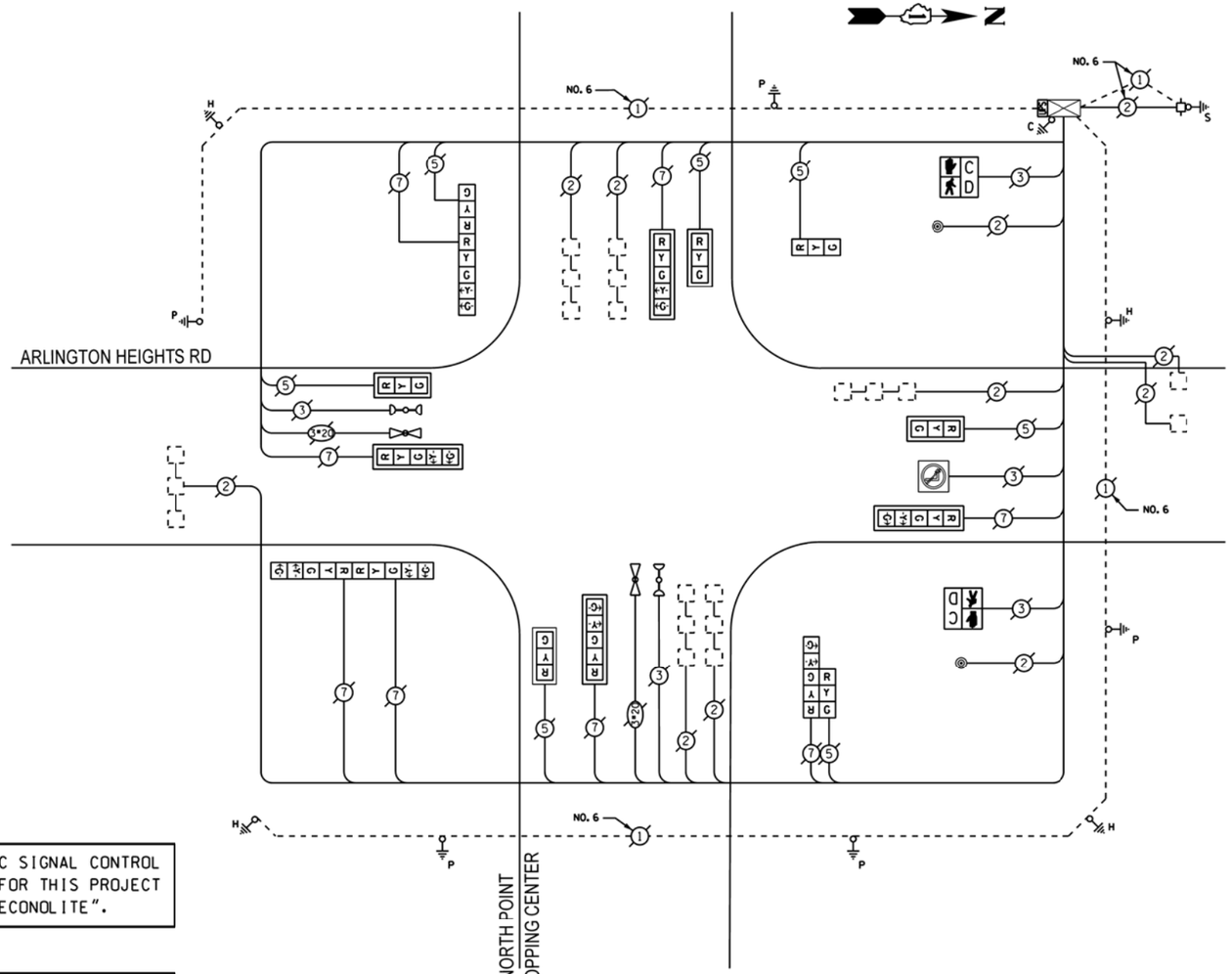


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	15		17	0.50	127.50
(YELLOW)	15		25	0.25	93.75
(GREEN)	15		15	0.25	56.25
ARROW	16		12	0.10	19.20
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	446.70

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED



CABLE PLAN

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

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
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
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT
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

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

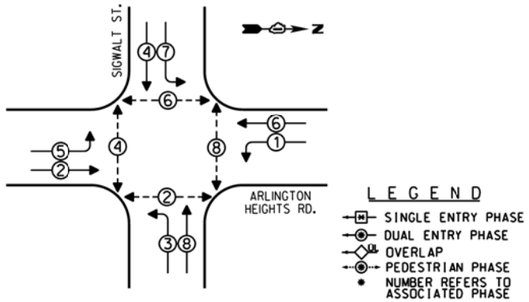
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, ARLINGTON HEIGHTS ROAD AT NORTH POINT SHOPPING CENTER

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

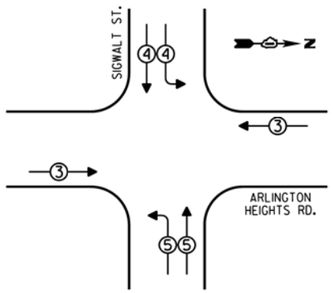
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	18
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

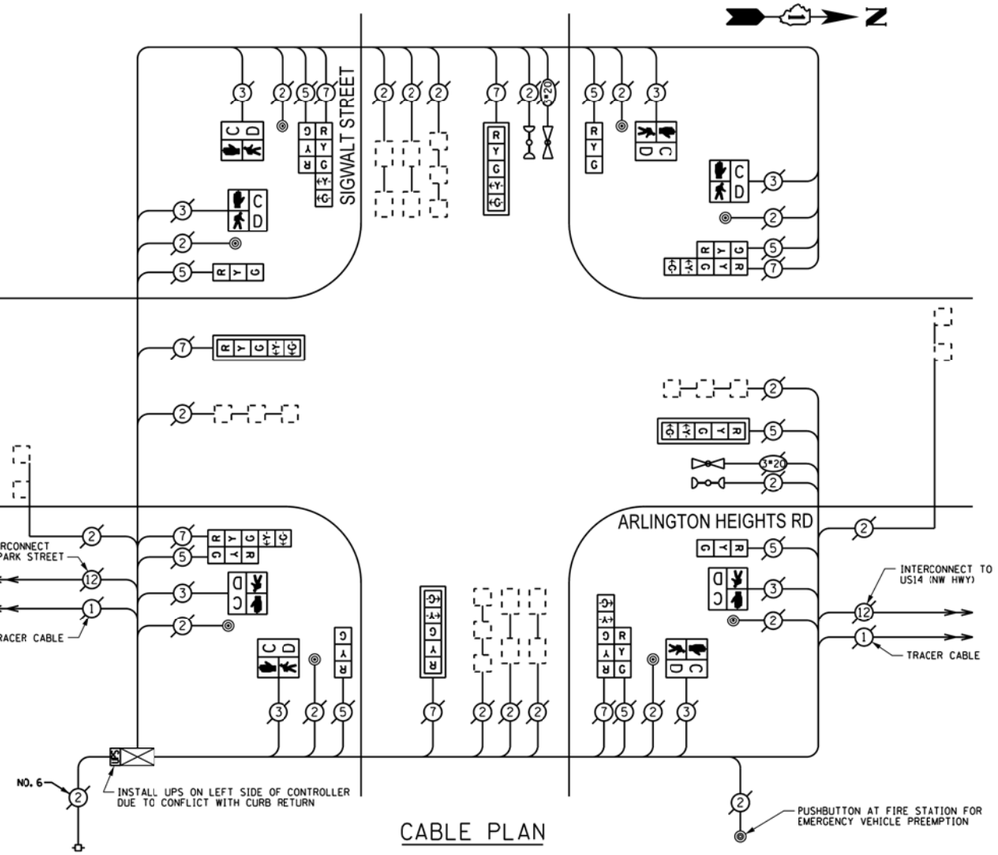


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	615.20

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	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
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -
FILE1		DRAWN -	REVISED -
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
MODELNAME	PLOT DATE = *DATE*	DATE -	REVISED -

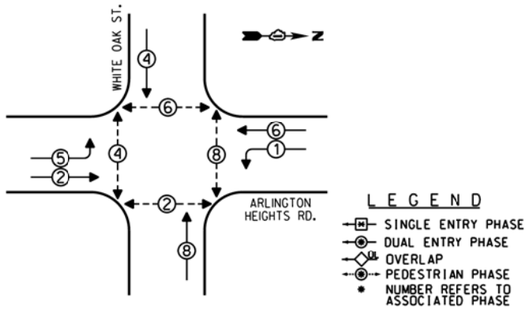
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
ARLINGTON HEIGHTS ROAD AT SIGWALT STREET

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

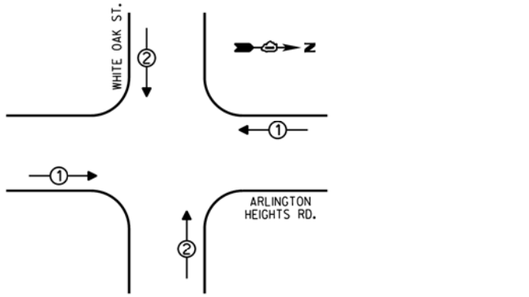
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	19
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

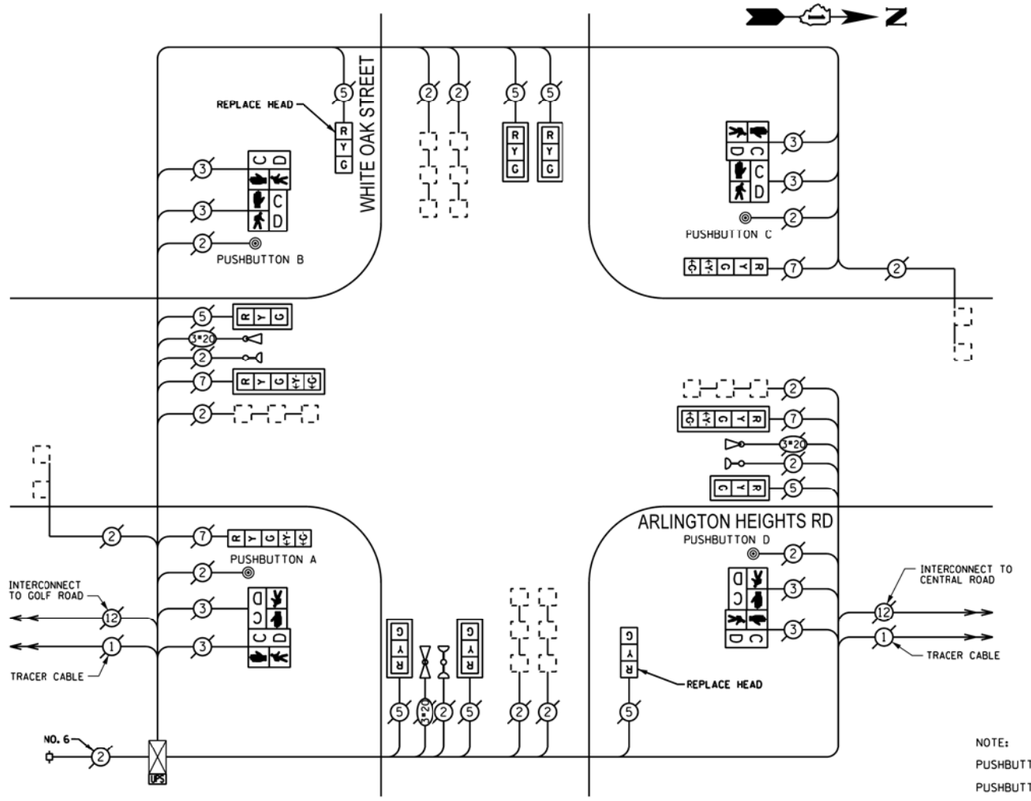


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇆	⇅



CABLE PLAN

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

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS EXCEPT AS NOTED

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

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED X	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	8		12	0.10	9.60
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	531.60

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

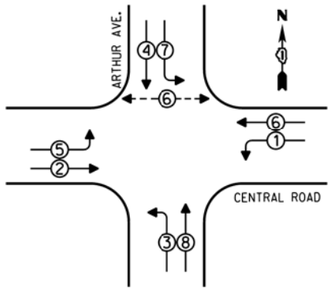
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
ARLINGTON HEIGHTS ROAD AT WHITE OAK STREET

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	20
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

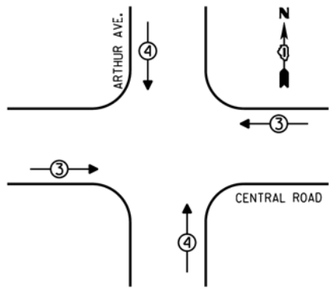
CONTROLLER SEQUENCE



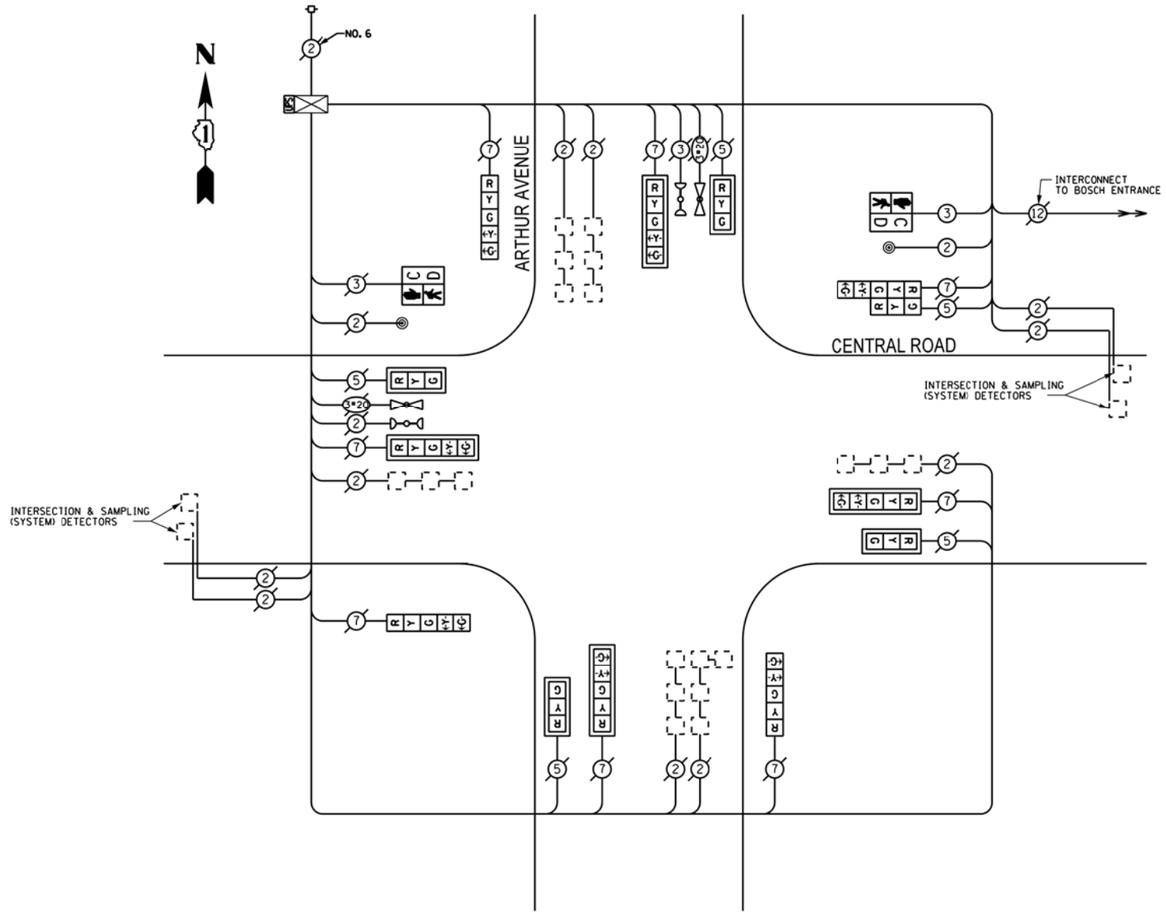
LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇆	⇅



CABLE PLAN

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

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	13		17	0.50	110.50
(YELLOW)	13		25	0.25	81.25
(GREEN)	13		15	0.25	48.75
ARROW	16		12	0.10	19.20
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	409.70

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

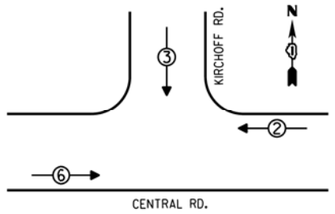
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	21
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SEQUENCE

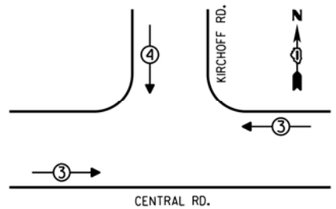


LEGEND

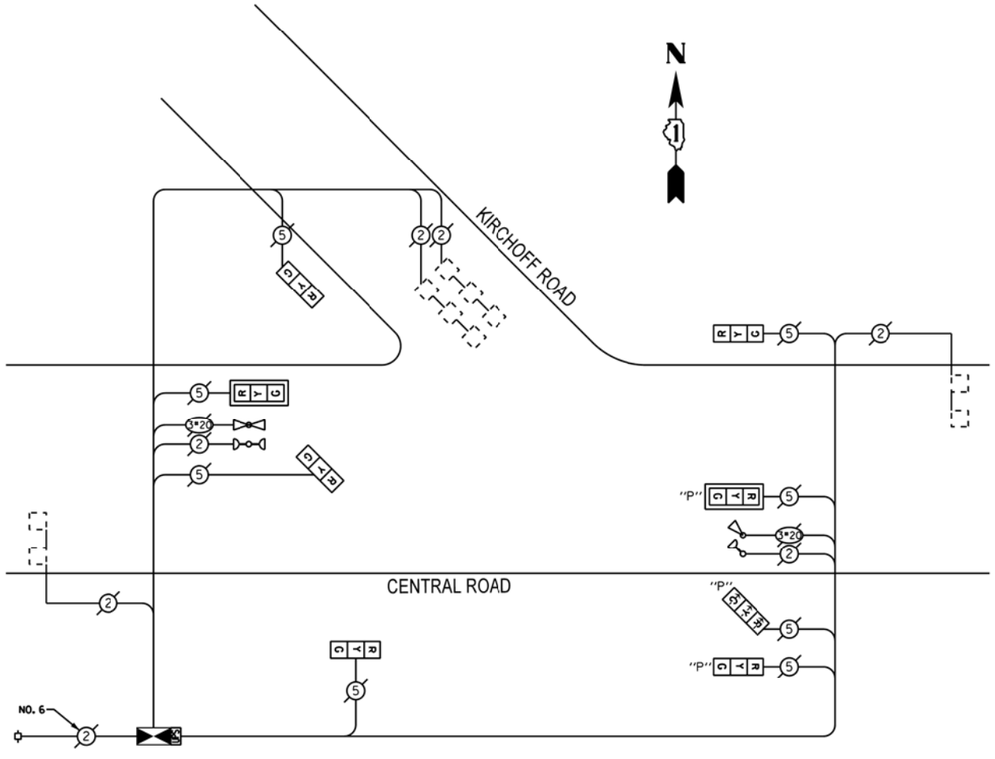
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED X	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	8		17	0.50	68.00
(YELLOW)	8		25	0.25	50.00
(GREEN)	8		15	0.25	30.00
ARROW			12	0.10	
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	248.00

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	TRAFFIC SIGNAL POST
8	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

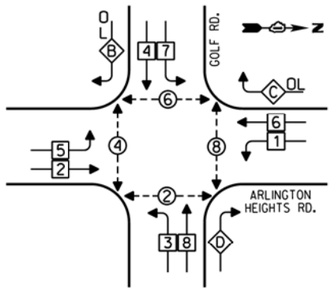
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, CENTRAL ROAD AT KIRCHOFF ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	22
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

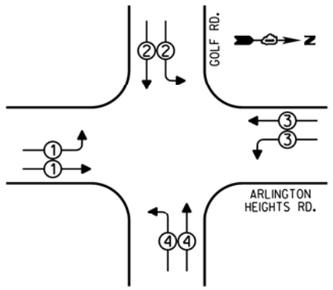


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

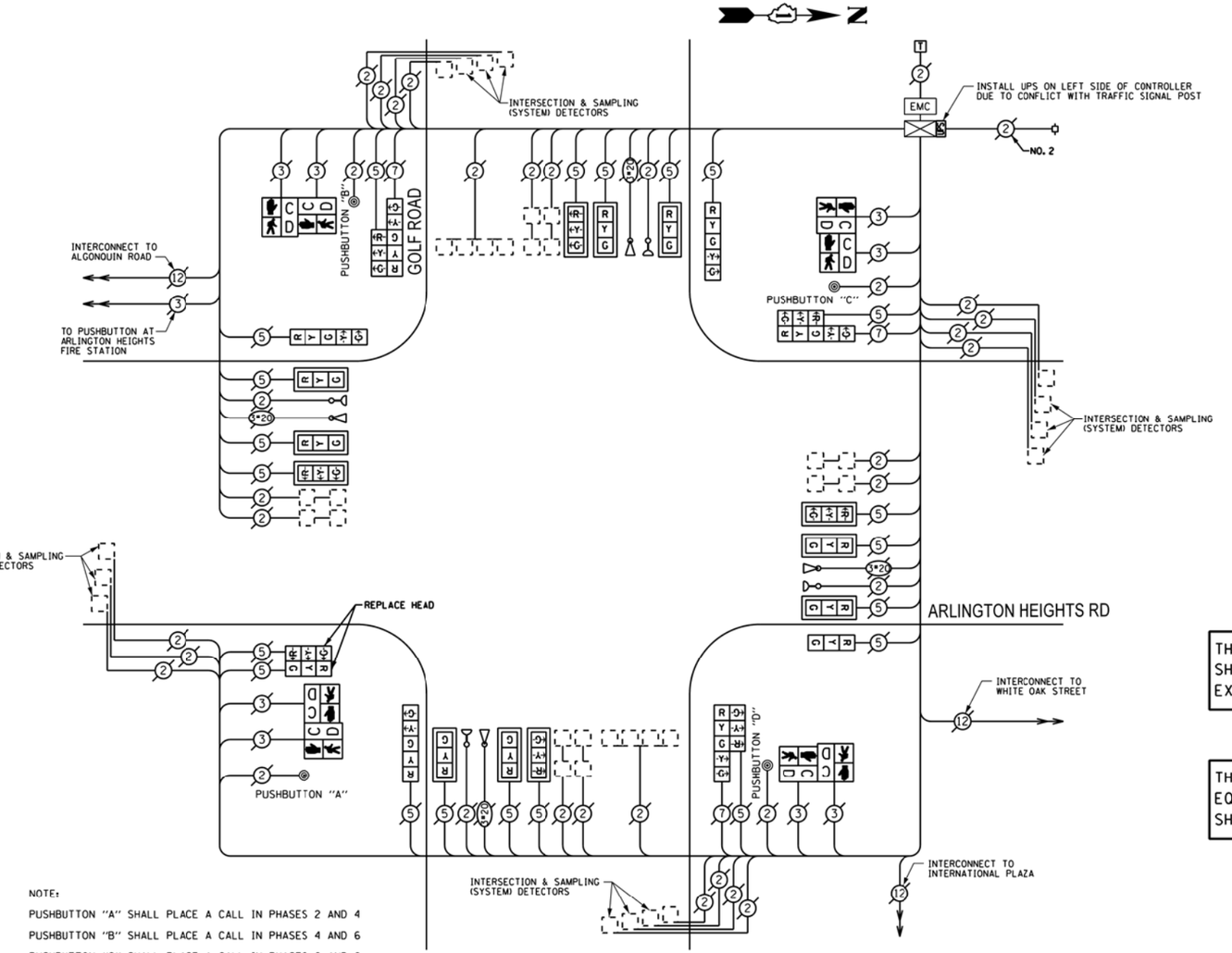
PHASE DESIGNATION DIAGRAM

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	1	2	3	4
MOVEMENT				



NOTE:

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

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

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

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

CABLE PLAN

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS EXCEPT AS NOTED

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

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

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	24		17	0.50	204.00
(YELLOW)	24		25	0.25	150.00
(GREEN)	24		15	0.25	90.00
ARROW	12		12	0.10	14.40
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	758.40

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -
FILE		DRAWN -	REVISED -
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
MODELNAME	PLOT DATE = *DATE*	DATE -	REVISED -

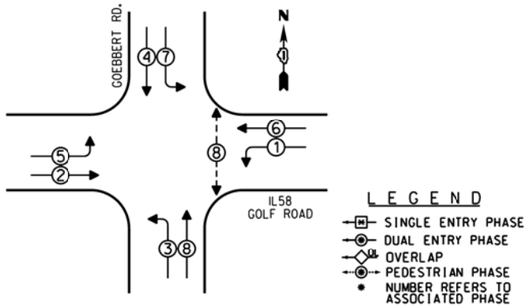
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

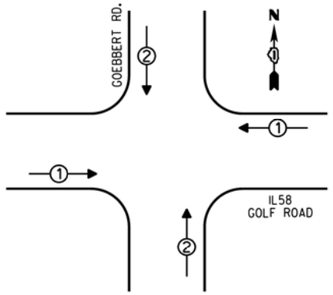
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	23
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

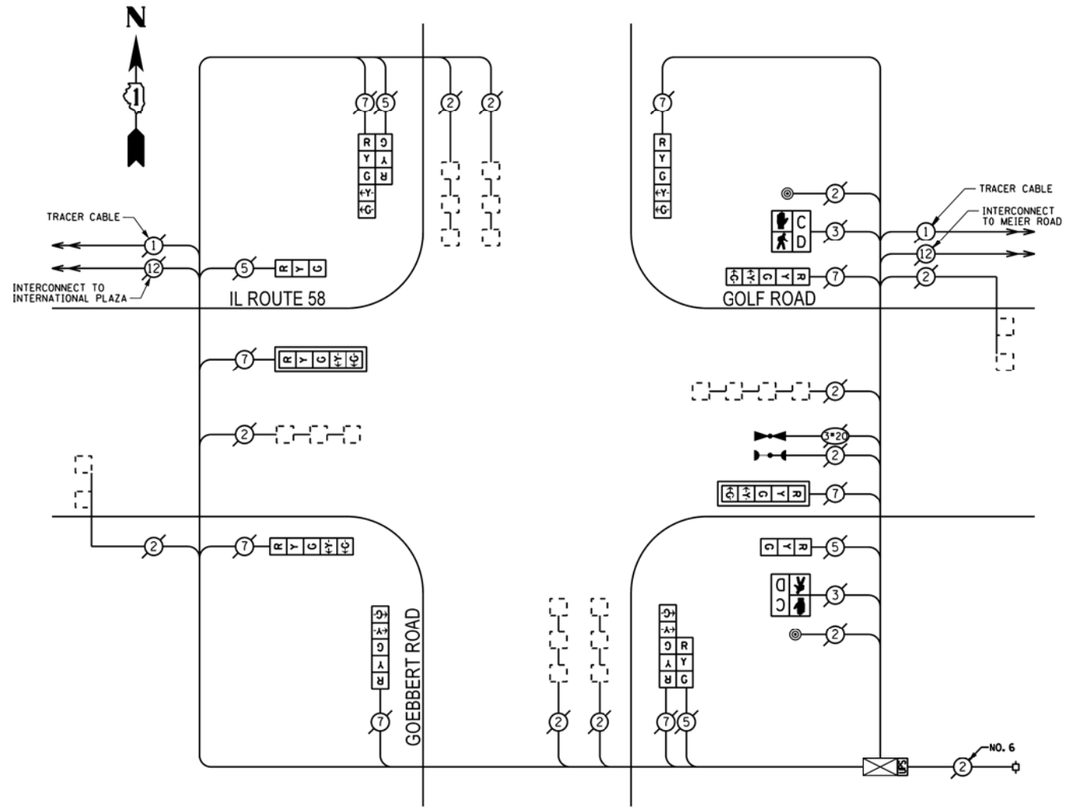


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	← →	↓ ↑



CABLE PLAN

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

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED X	% OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	391.20

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

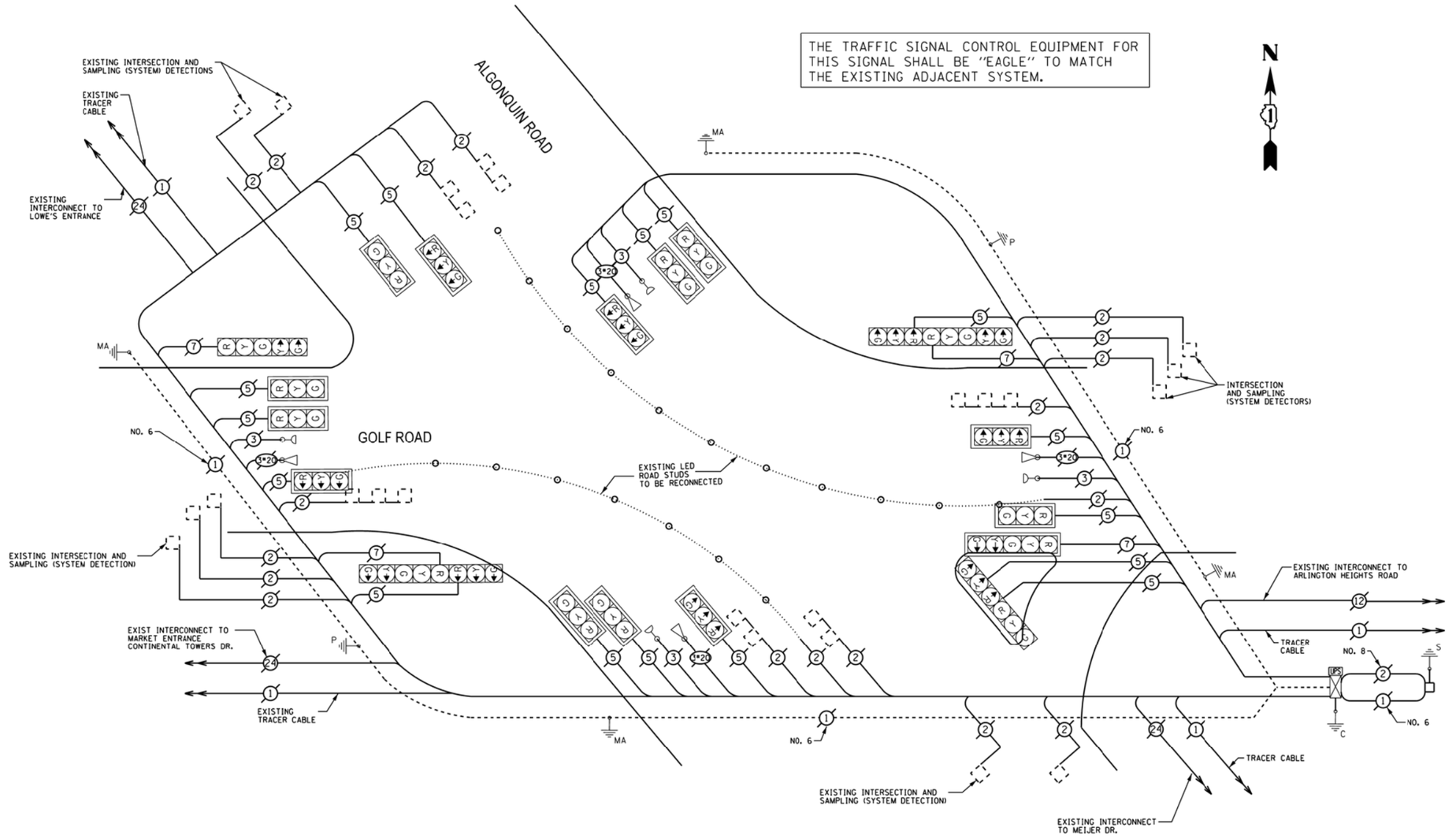
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL58 (GOLF ROAD) AT GOEBBERT ROAD

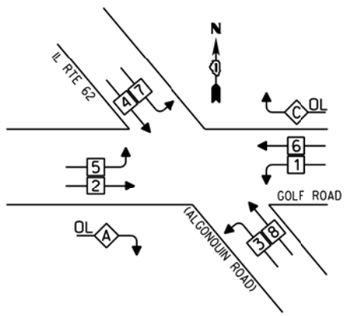
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	24
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

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



CONTROLLER SEQUENCE



LEGEND

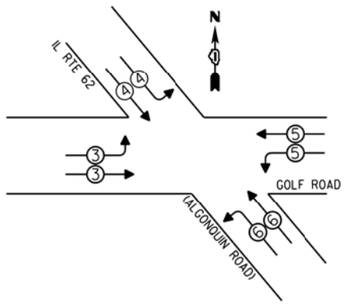
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OL OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

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

TYPE	NO. OF LAMPS	WATTAGE x INCAND	WATTAGE x LED	x % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	21		17	0.50	178.5
(YELLOW)	21		25	0.25	131.3
(GREEN)	21		15	0.25	78.8
ARROW	8		12	0.10	9.6
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ENERGY COSTS TO:				TOTAL =	498.1

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET

TS-2705

FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USERNAME$

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761
630.705.0110 voice, 630.839.2566 fax
www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - JNP		REVISED -
DRAWN - JNP		REVISED -
CHECKED - TVN		REVISED -
DATE - $DATE$		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

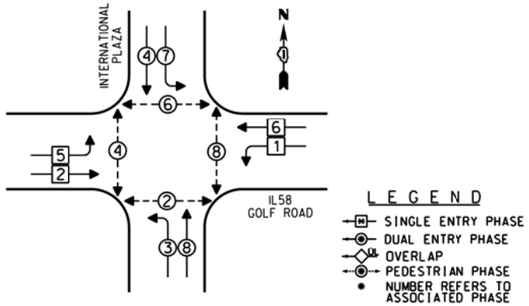
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
GOLF ROAD AT ALGONQUIN ROAD

SCALE: · | SHEET NO. OF SHEETS | STA. · | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	25
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

$FILE$

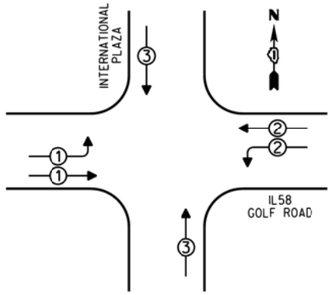
CONTROLLER SEQUENCE



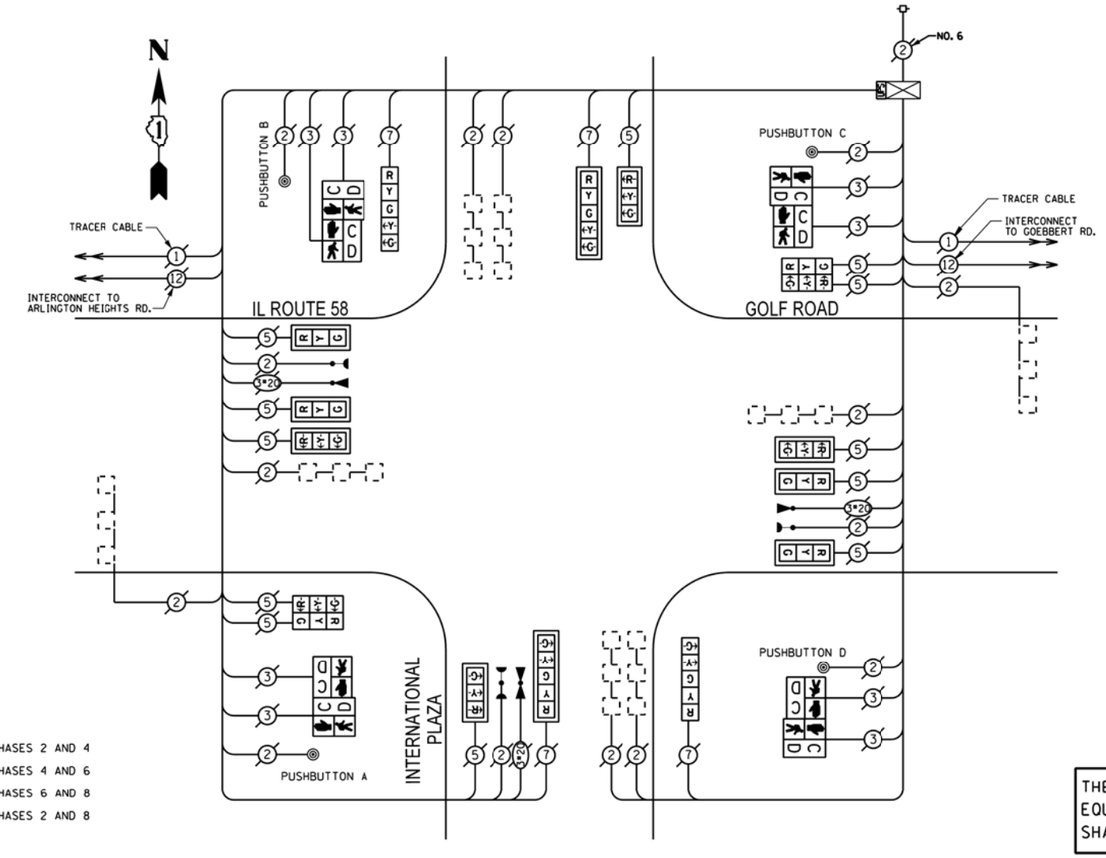
LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	1	2	3
MOVEMENT	⇉	⇇	⇅



CABLE PLAN

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

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

REPLACE ALL EXISTING POST MOUNTED TRAFFIC SIGNAL HEADS

RETROFIT ALL EXISTING MAST ARM MOUNTED TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	8		12	0.10	9.60
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	605.60

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

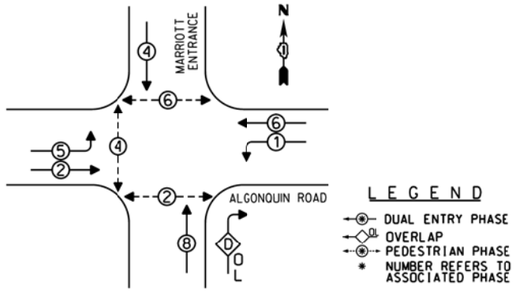
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL58 (GOLF ROAD) AT INTERNATIONAL PLAZA

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	26
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SEQUENCE

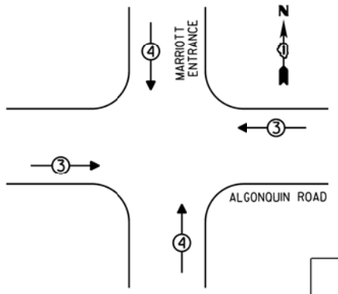


PHASE DESIGNATION DIAGRAM

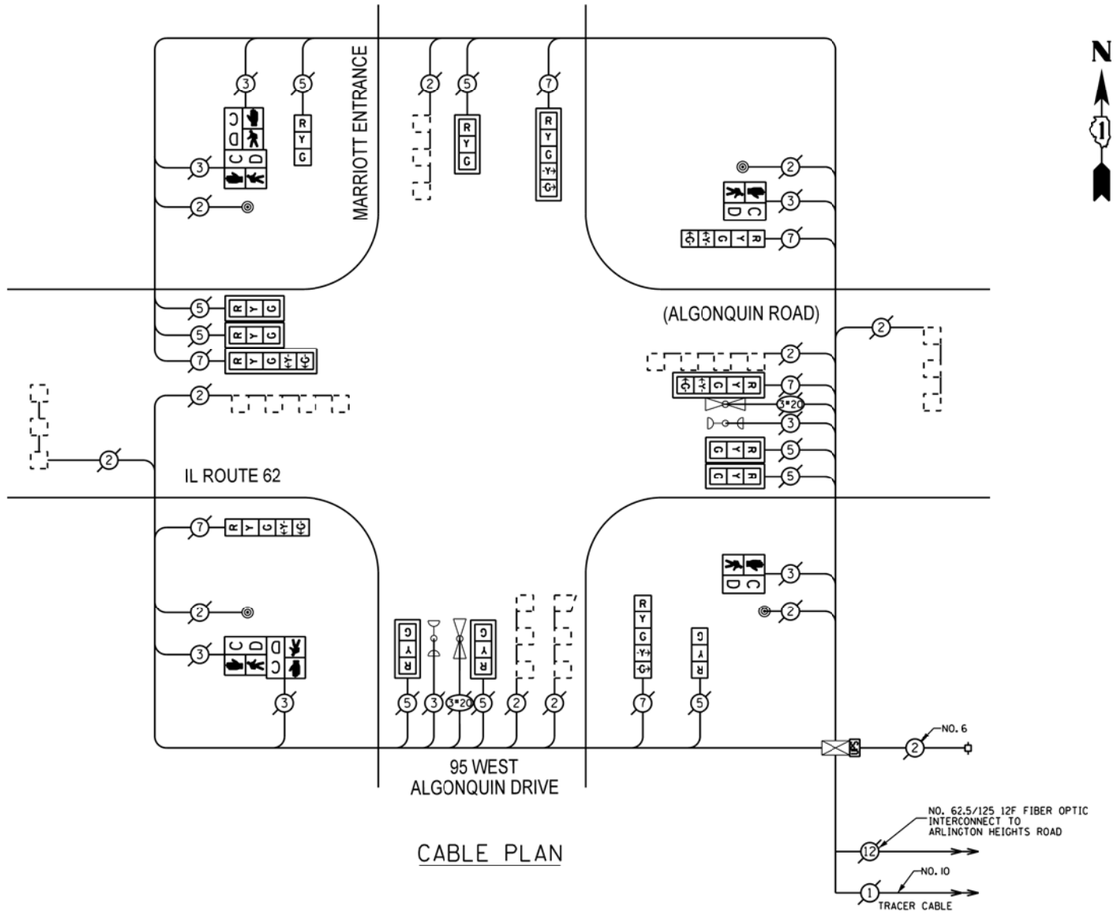
RIGHT TURN OVERLAP PHASE DESIGNATION

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇆	⇅



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	15		17	0.50	127.5
(YELLOW)	15		25	0.25	93.8
(GREEN)	15		15	0.25	56.3
ARROW	12		12	0.10	14.4
PED. SIGNAL	6		25	1.00	150.0
CONTROLLER	1		100	1.00	100.00
ENERGY COSTS TO:				TOTAL =	542.0

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSHBUTTON

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
7	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
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITHCOUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITHCOUNTDOWN TIMER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

TS-2936

FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USERNAME$

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761
630.705.0110 voice, 630.839.2566 fax
www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - JNP	REVISED -	
DRAWN - JNP	REVISED -	
CHECKED - TVN	REVISED -	
DATE - $DATE$	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

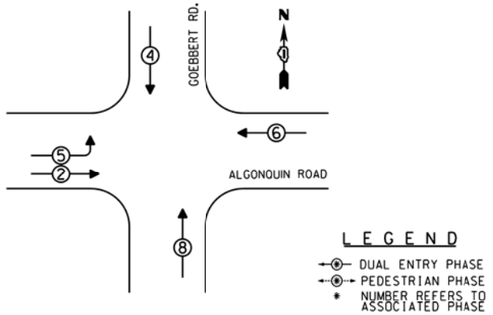
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
ALGONQUIN ROAD AT 95 WEST RADDISON

SCALE: · | SHEET NO. OF SHEETS | STA. · | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	27
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

$FILE$

CONTROLLER SEQUENCE

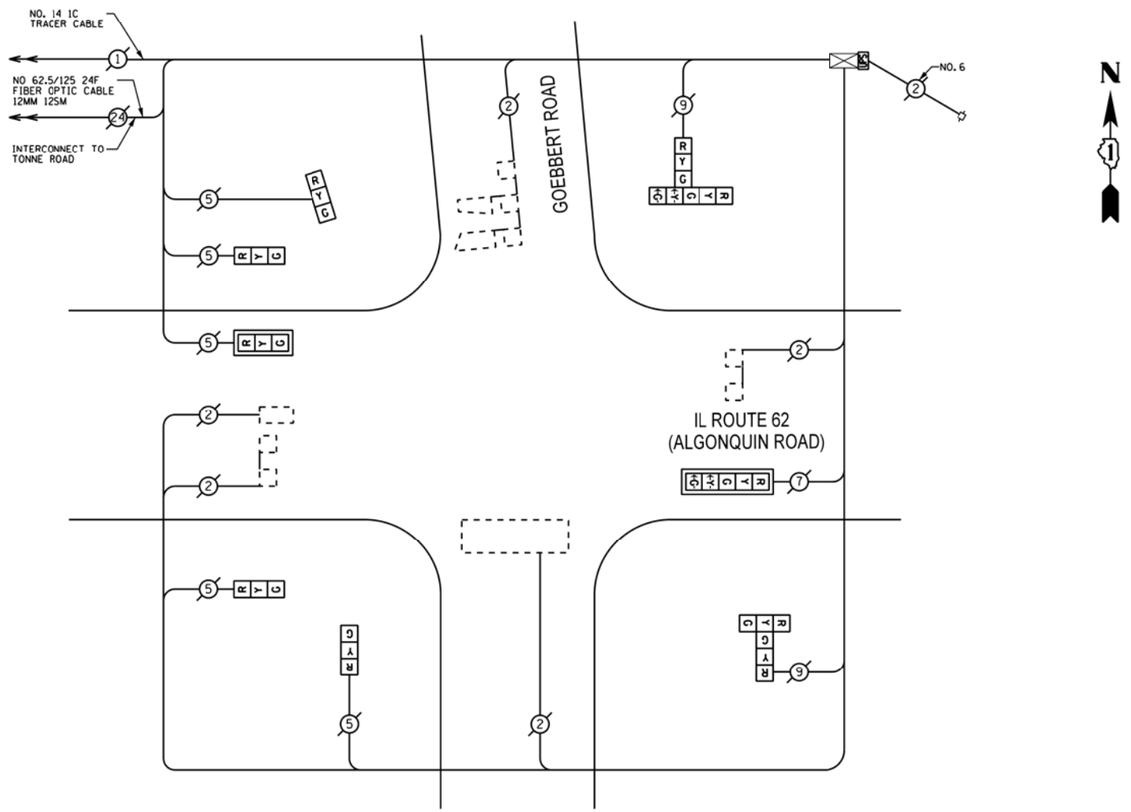


PHASE DESIGNATION DIAGRAM

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	X	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	10		17	0.50	85.0
(YELLOW)	10		25	0.25	62.5
(GREEN)	10		15	0.25	37.5
ARROW	4		12	0.10	4.8
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ENERGY COSTS TO:				TOTAL =	289.8

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

TS-2965

FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USERNAME$

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761
630.705.0110 voice, 630.839.2566 fax
www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - JNP		REVISED -
DRAWN - JNP		REVISED -
CHECKED - TVN		REVISED -
DATE - $DATE$		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

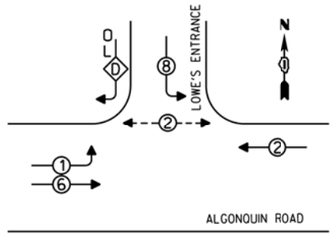
SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM, ALGONQUIN ROAD AT GOEBBERT ROAD

SCALE: · | SHEET NO. OF SHEETS | STA. · TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	28
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

$FILE$

CONTROLLER SEQUENCE



LEGEND

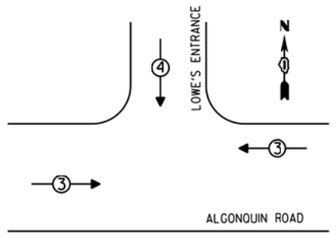
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

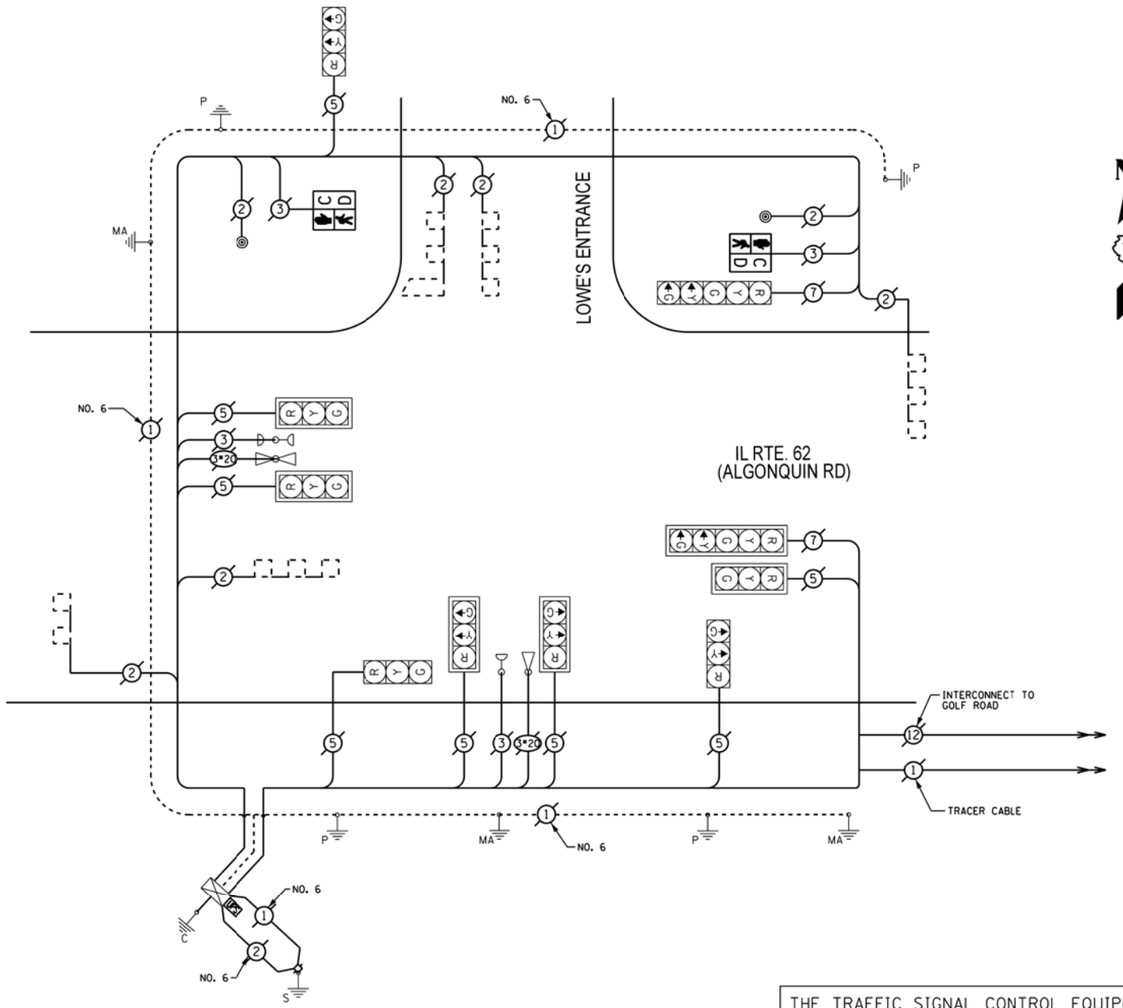
RIGHT TURN OVERLAP PHASE DESIGNATION

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	X	WATTAGE INCAND	LED X % OPERATIONS	
SIGNAL (RED)	10		17	0.50	85.0
(YELLOW)	10		25	0.25	62.5
(GREEN)	10		15	0.25	37.5
ARROW	4		12	0.10	4.8
PED. SIGNAL	2		25	1.00	50.0
CONTROLLER	1		100	1.00	100.00
ENERGY COSTS TO:				TOTAL =	339.8

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
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

TS-2707

FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USERNAME$

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761
630.705.0110 voice, 630.839.2566 fax
www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - JNP		REVISED -
DRAWN - JNP		REVISED -
CHECKED - TVN		REVISED -
DATE - $DATE$		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

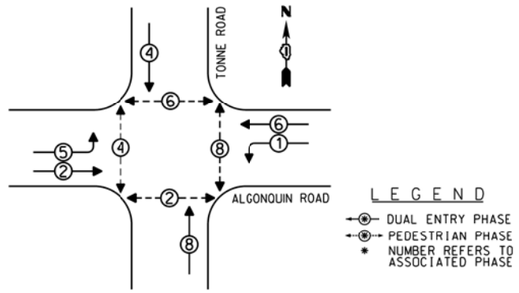
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
ALGONQUIN ROAD AT LOWE'S ENTRANCE

SCALE: · | SHEET NO. OF SHEETS | STA. · | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	29
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

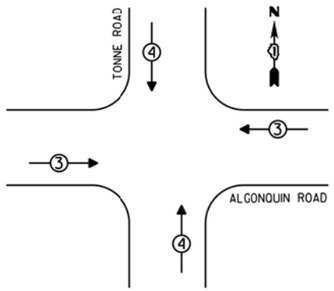
$FILE$

CONTROLLER SEQUENCE

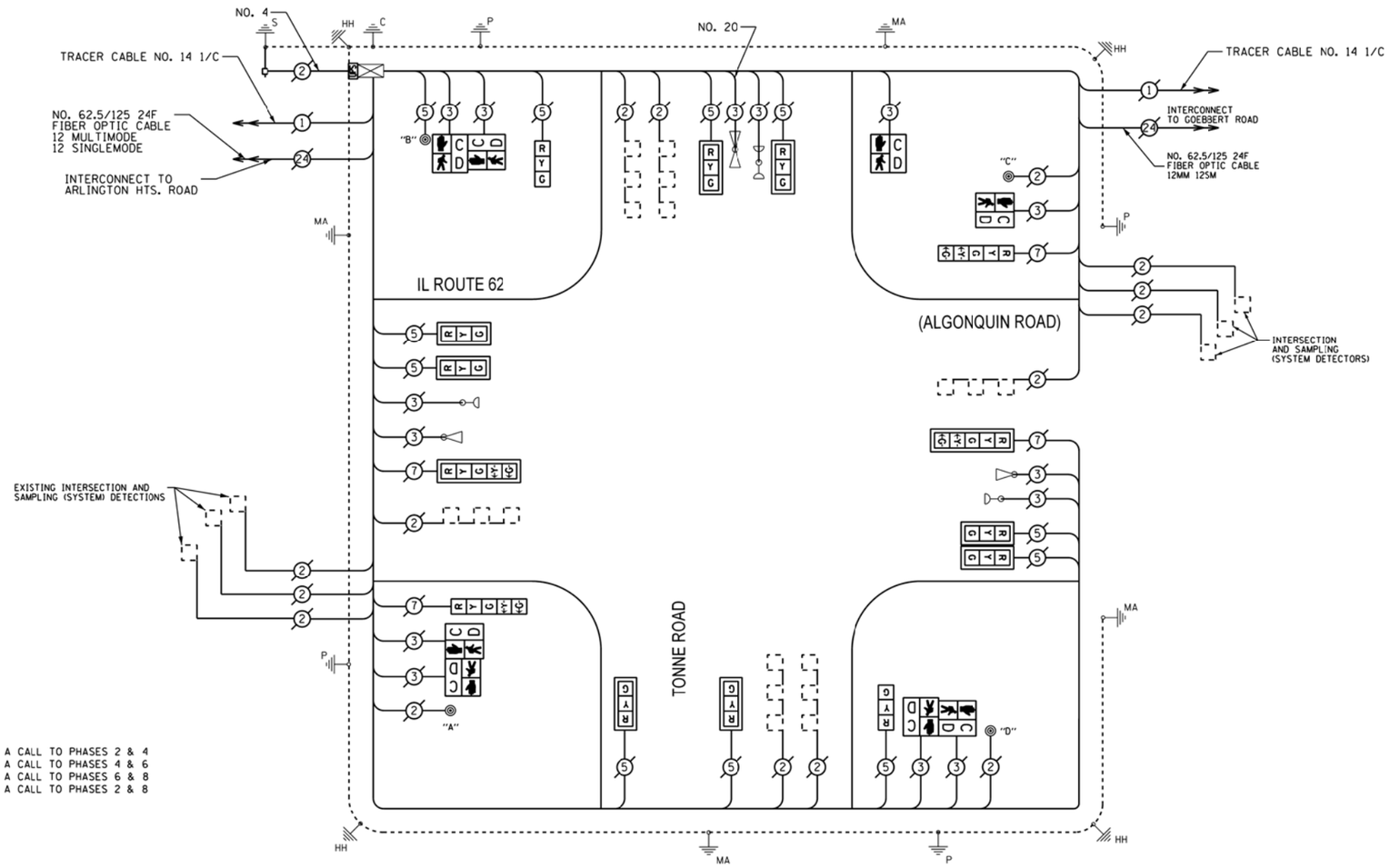


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

NOTE:

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	X WATTAGE INCAND	LED	X % OPERATIONS	
SIGNAL (RED)	14		17	0.50	119.0
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52.5
ARROW	8		12	0.10	9.6
PED. SIGNAL	8		25	1.00	200.0
CONTROLLER	1		100	1.00	100.00
ENERGY COSTS TO:				TOTAL =	568.6

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
3	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSHBUTTON

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

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

SCHEDULE OF QUANTITIES

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

TS-2966

FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USERNAME$

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761
630.705.0110 voice, 630.839.2566 fax
www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - JNP		REVISED -
DRAWN - JNP		REVISED -
CHECKED - TVN		REVISED -
DATE - $DATE$		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

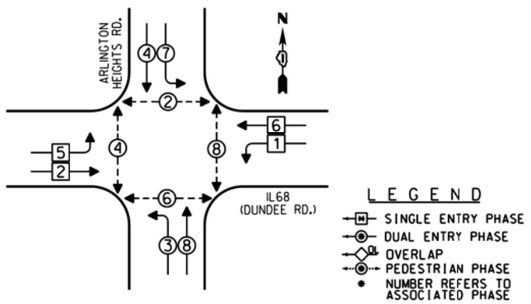
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
ALGONQUIN ROAD AT TONNE ROAD

SCALE: · | SHEET NO. OF SHEETS | STA. · | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	30
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

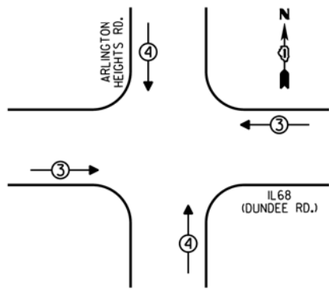
$FILE$

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

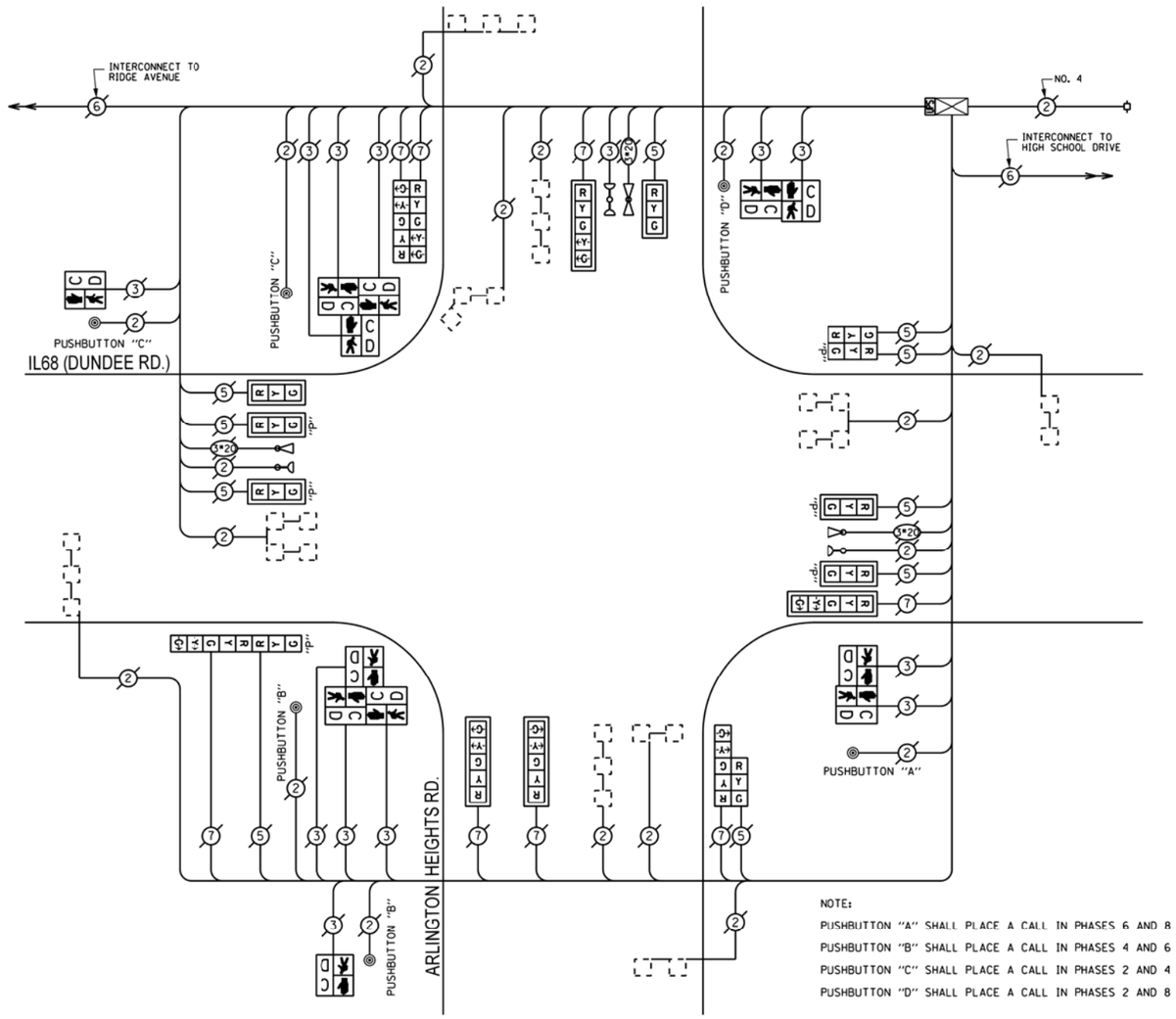


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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



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

CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED X	% OPERATIONS	
SIGNAL (RED)	18		17	0.50	153.00
(YELLOW)	18		25	0.25	112.50
(GREEN)	18		15	0.25	67.50
ARROW	16		12	0.10	19.20
PED. SIGNAL	12		25	1.00	300.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	752.20

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
1	EACH	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10	EACH	TRAFFIC SIGNAL BACKPLATE
6	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

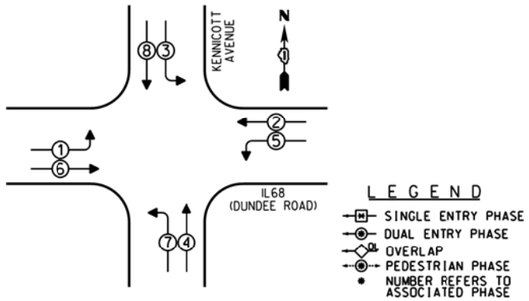
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL68 (DUNDEE ROAD) AT ARLINGTON HEIGHTS ROAD

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

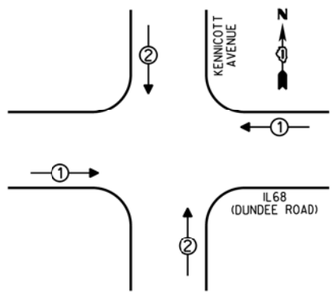
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	31
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇆	↓↑

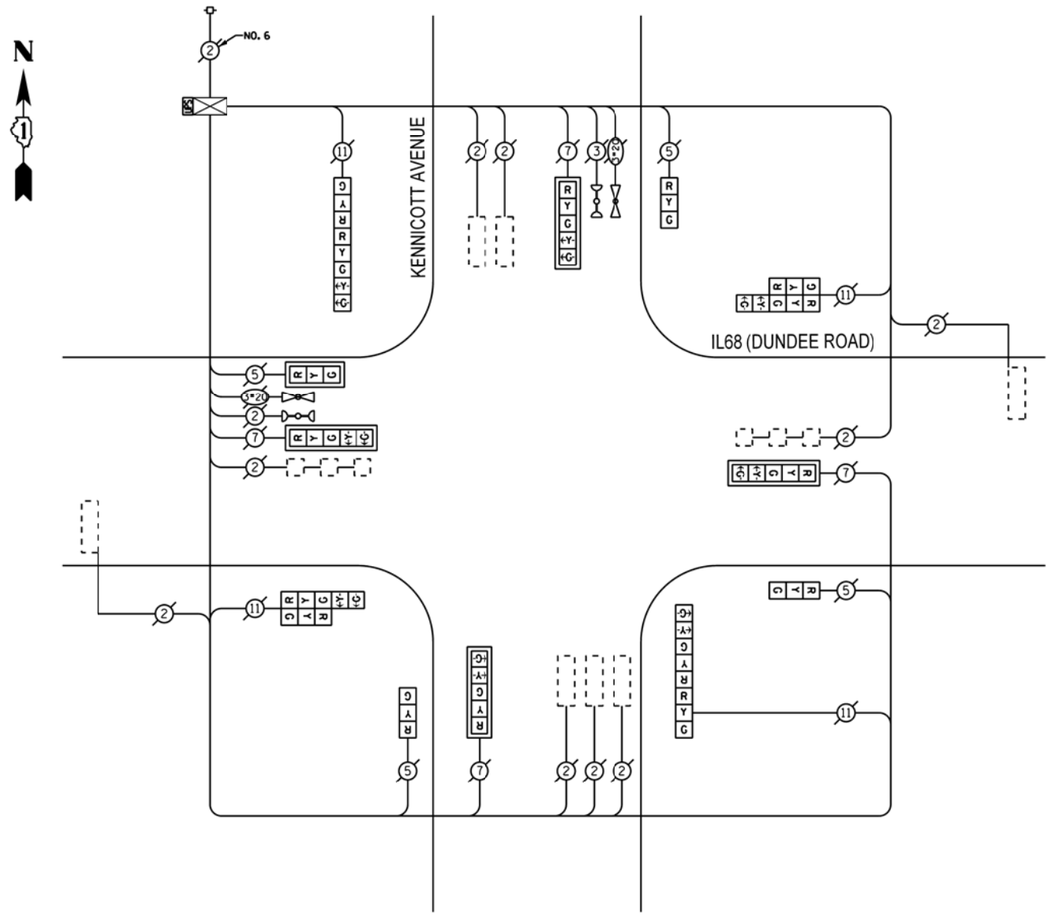
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	16		12	0.10	19.20
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	415.20

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

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



CABLE PLAN

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	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
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

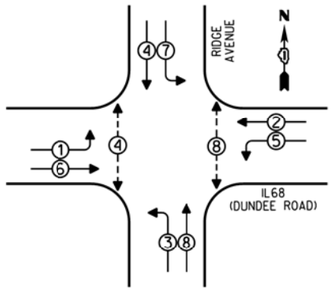
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL68 (DUNDEE ROAD) AT KENNICOTT AVENUE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	32
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

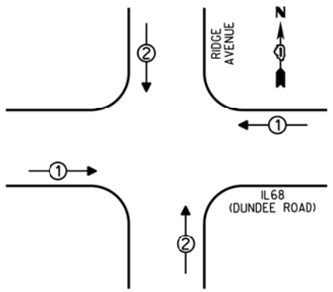
CONTROLLER SEQUENCE



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

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE
PREEMPTION SEQUENCE



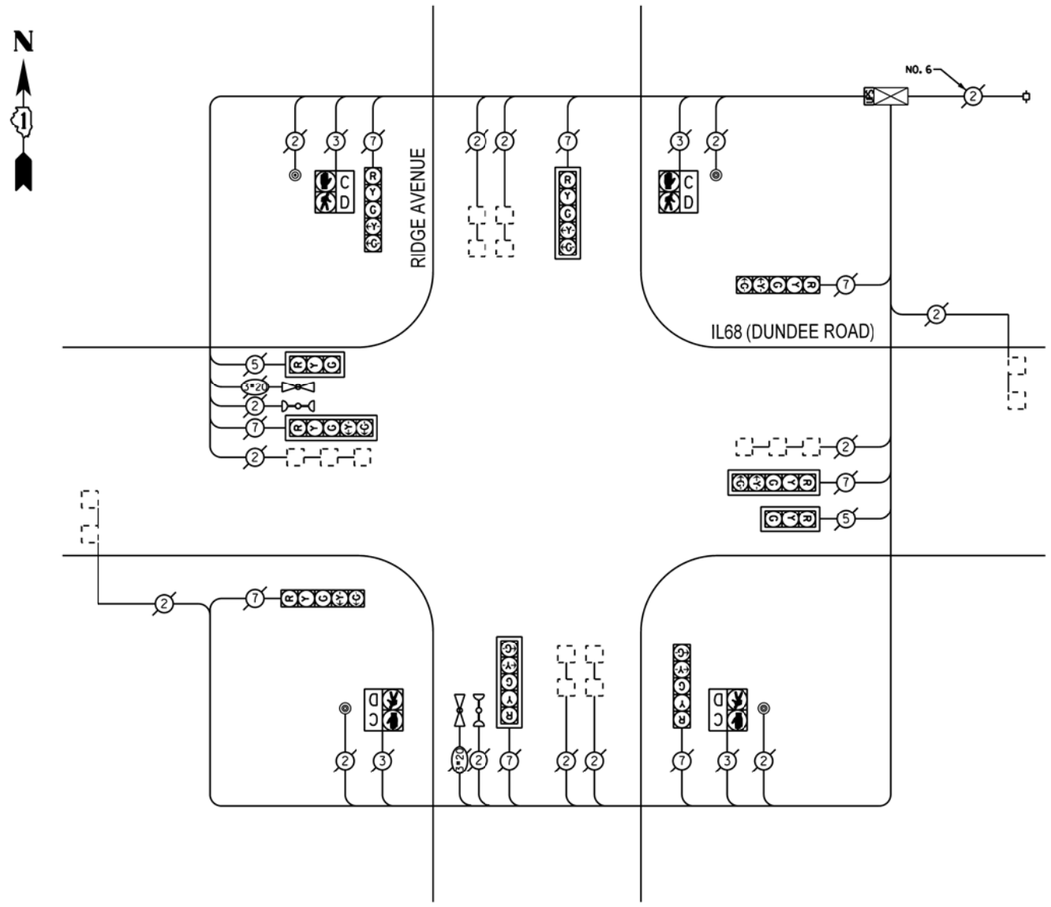
EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇆	↓↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATIONS	
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	16		12	0.10	19.20
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	404.20

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

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



CABLE PLAN

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
1	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

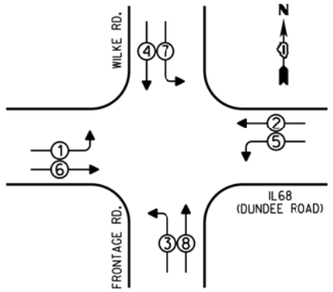
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL68 (DUNDEE ROAD) AT RIDGE AVENUE

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

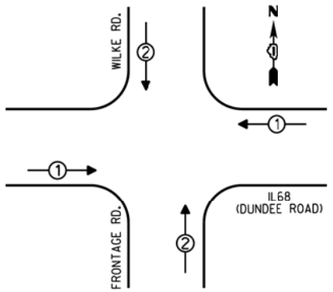
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	33
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE



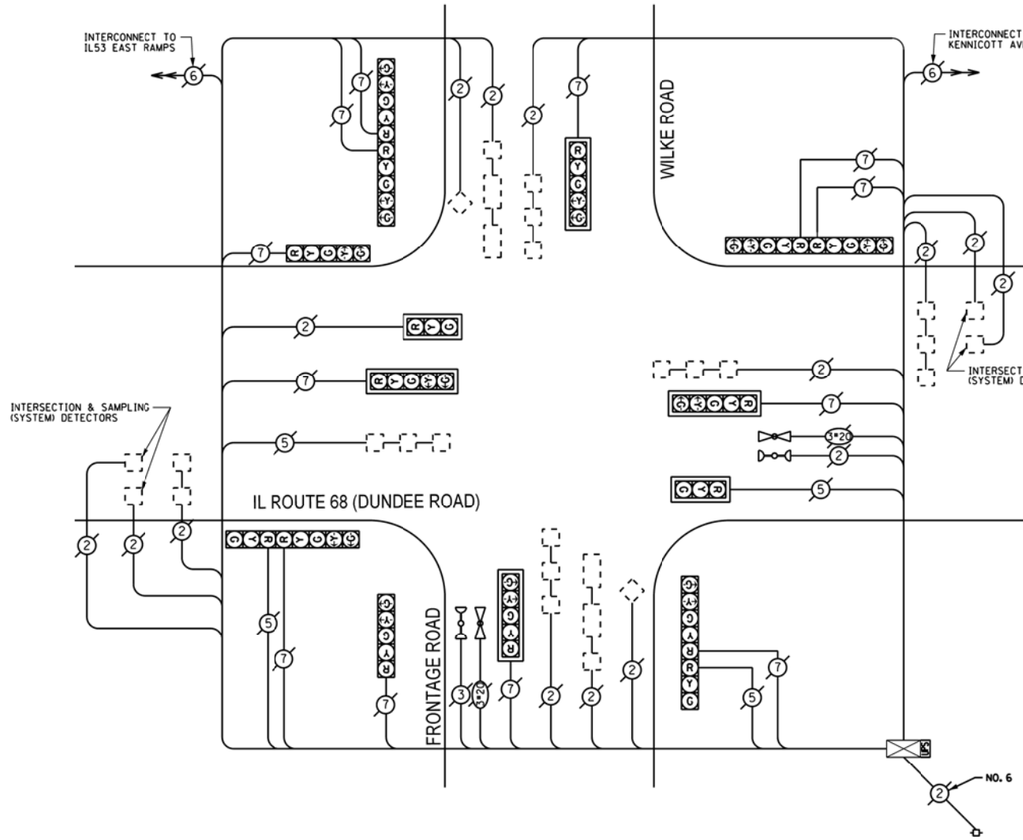
PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇄	⇅

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



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	24		12	0.10	28.80
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	424.80

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

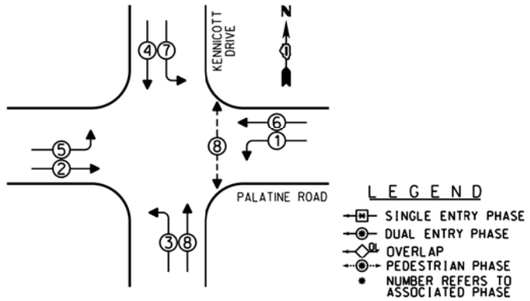
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL68 (DUNDEE ROAD) AT EAST FRONTAGE/WILKE ROAD)

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

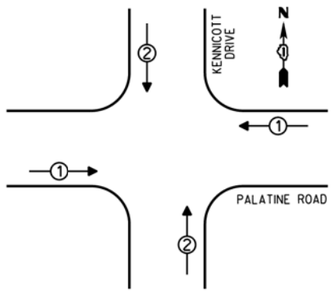
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	34
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SEQUENCE

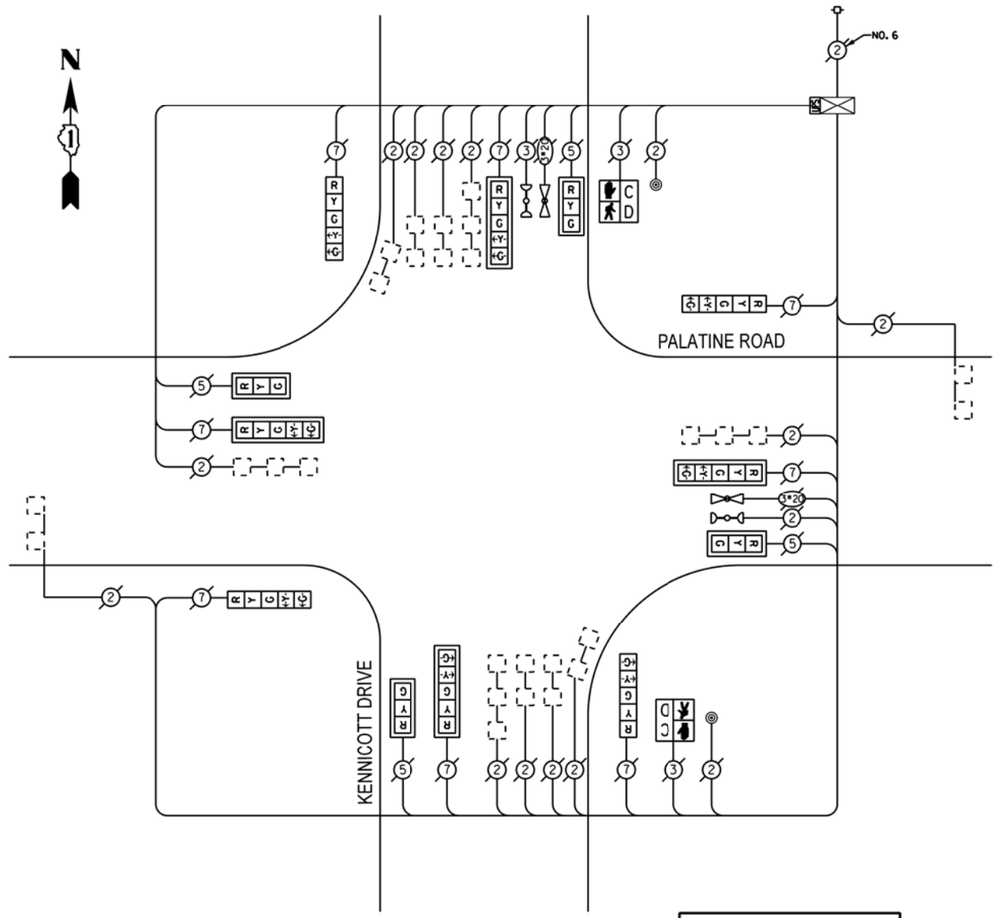


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇆	↓↑



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	391.20

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
8	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

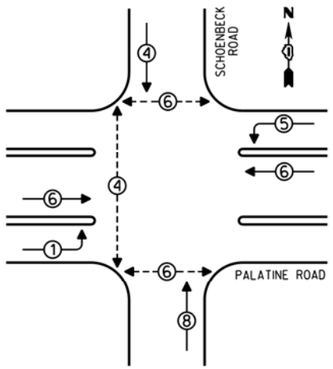
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, PALATINE ROAD AT KENNICOTT DRIVE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	35
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

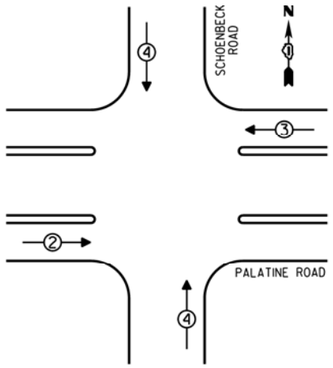
CONTROLLER SEQUENCE



LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

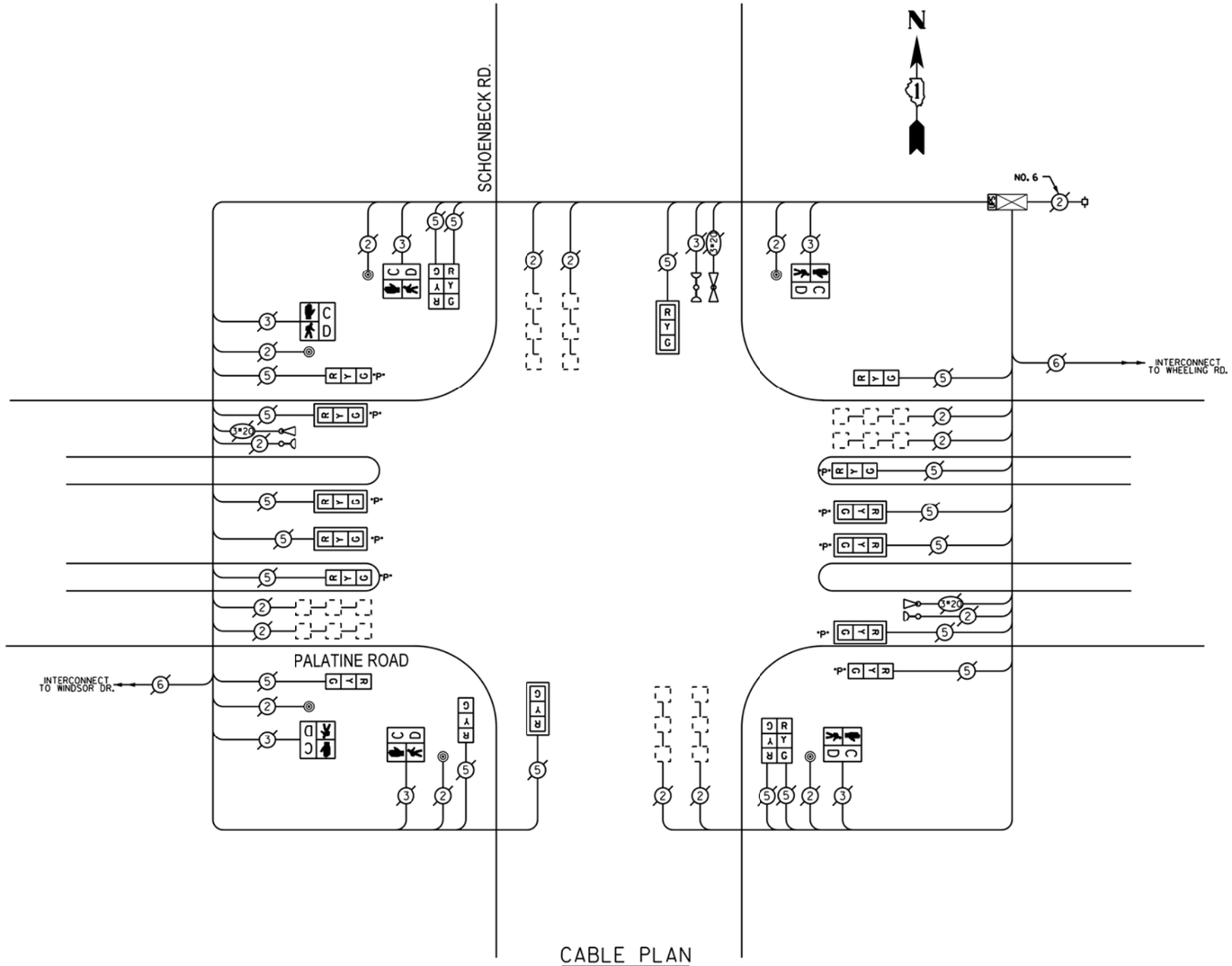
EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	2	3	4
MOVEMENT	→	←	↓↑

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

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



CABLE PLAN

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED X	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	19		17	0.50	161.50
(YELLOW)	19		25	0.25	118.75
(GREEN)	19		15	0.25	71.25
ARROW			12	0.10	
PED. SIGNAL	6		25	1.00	150.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	601.50

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
15	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
6	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
6	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
6	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE
6	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

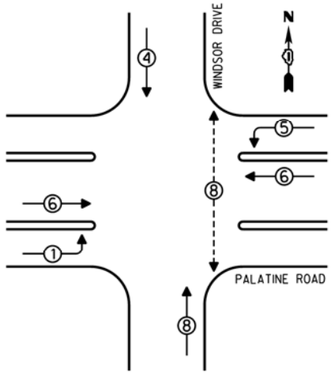
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
PALATINE ROAD AT SCHOENBECK ROAD

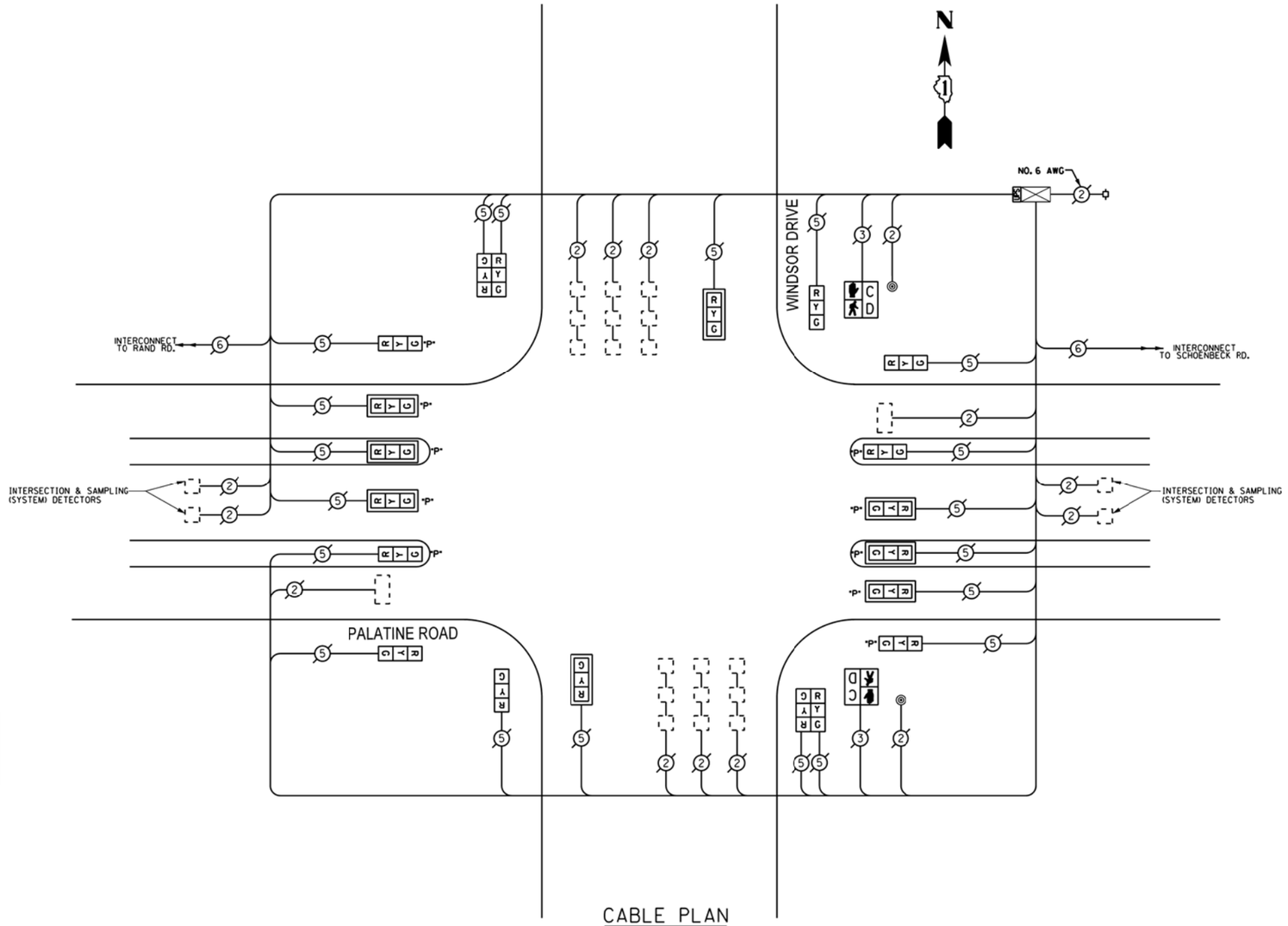
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	36
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

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

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	20		17	0.50	170.00
(YELLOW)	20		25	0.25	125.00
(GREEN)	20		15	0.25	75.00
ARROW			12	0.10	
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	520.00

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
16	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
6	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

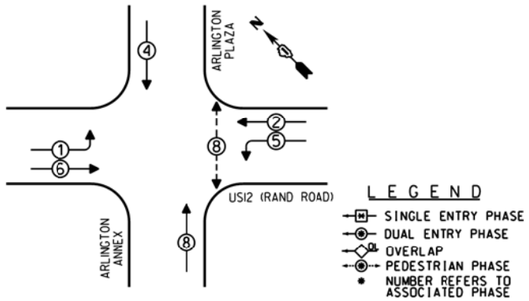
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
PALATINE ROAD AT WINDSOR DRIVE

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

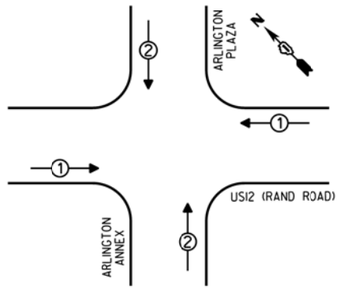
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	37
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

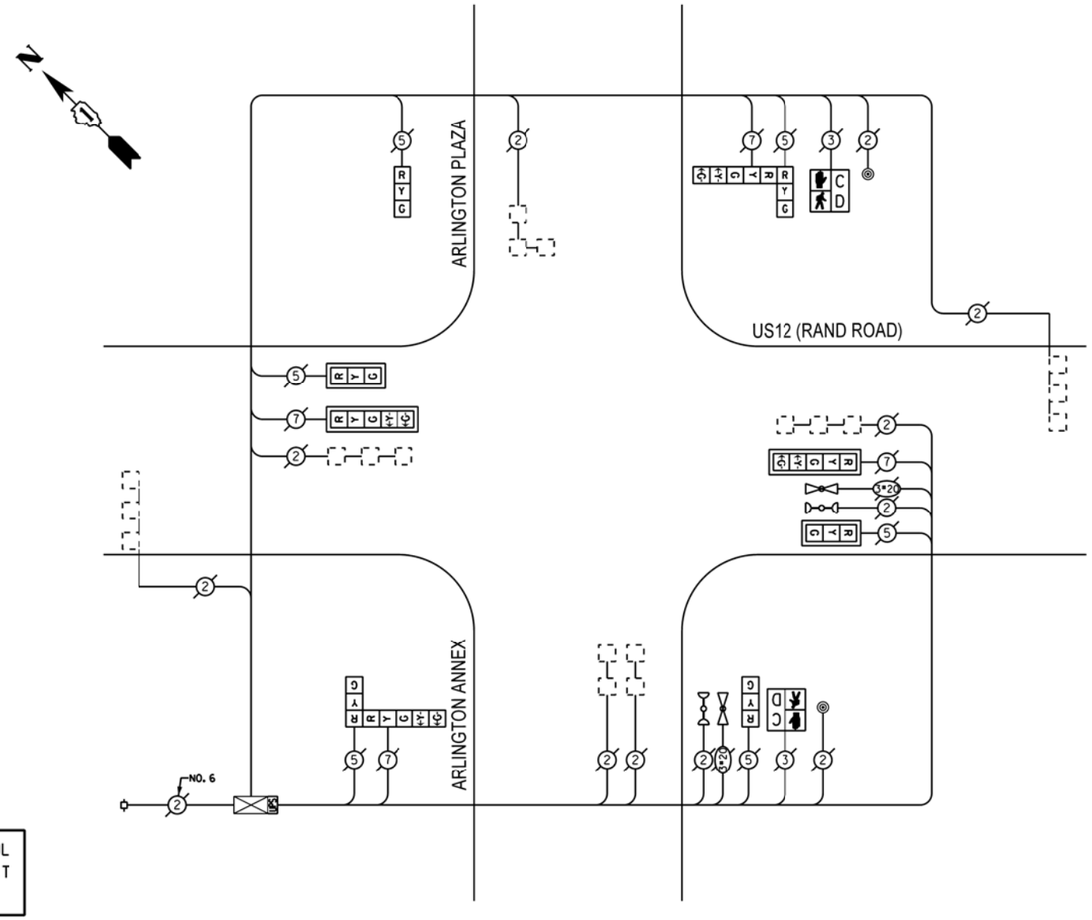


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇄	↓↑

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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



CABLE PLAN

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	8		12	0.10	9.60
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	344.60

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

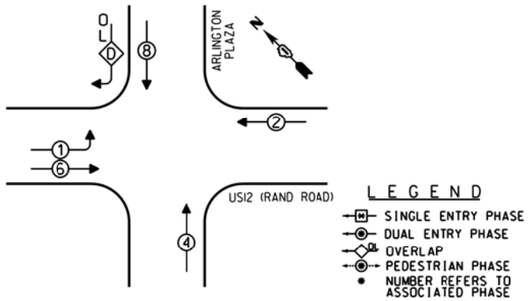
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT ARLINGTON ANNEX

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	38
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SEQUENCE

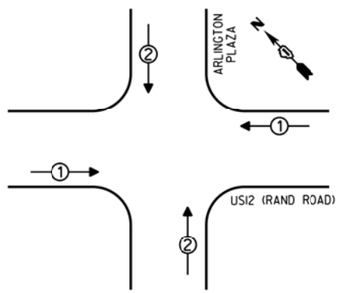


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE

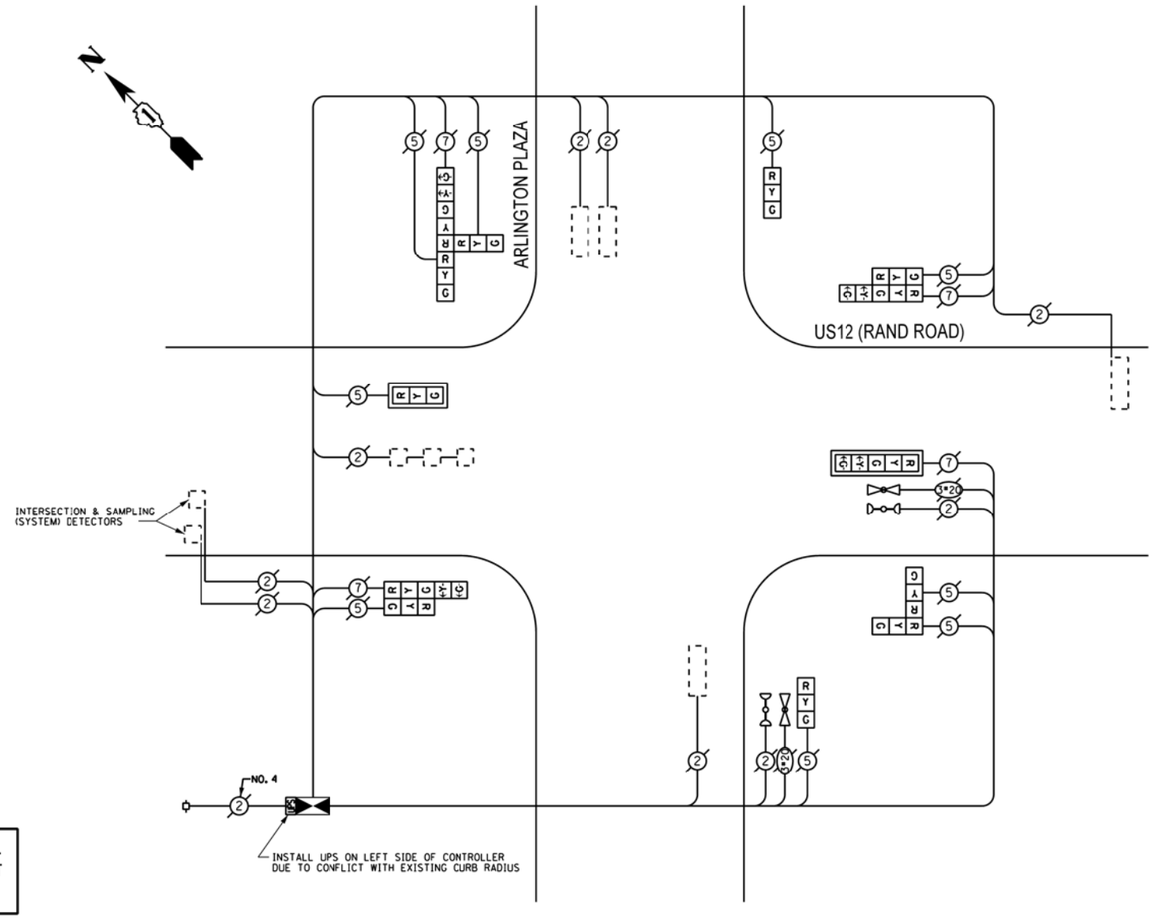


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇆	⇅

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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



CABLE PLAN

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	13		17	0.50	110.50
(YELLOW)	13		25	0.25	81.25
(GREEN)	13		15	0.25	48.75
ARROW	8		12	0.10	9.60
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	350.10

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
1	EACH	CONTROLLER AND CABINET (COMPLETE)
4	EACH	TRAFFIC SIGNAL POST
3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
1	EACH	SIGNAL HEAD, 3-FACE, 2-3 SECTION, 1-5 SECTION

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
1	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, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	FULL ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -
FILEL		DRAWN -	REVISED -
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
MODELNAME	PLOT DATE = *DATE*	DATE -	REVISED -

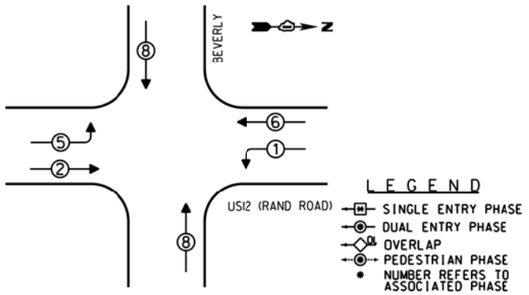
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT ARLINGTON PLAZA

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

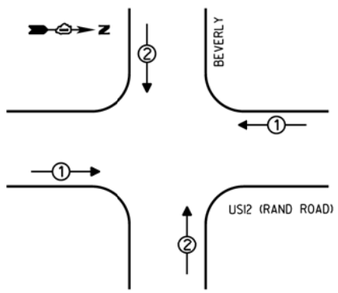
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	39
		CONTRACT NO. 60W23		
	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

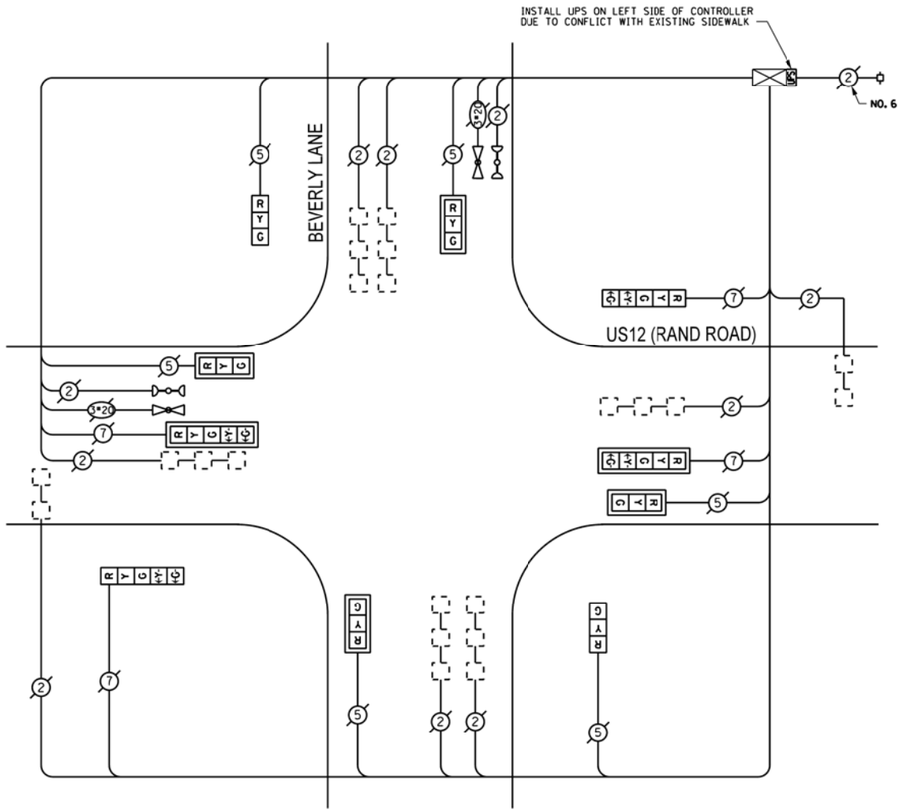


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇆	⇅

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	8		12	0.10	9.60
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	294.60

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

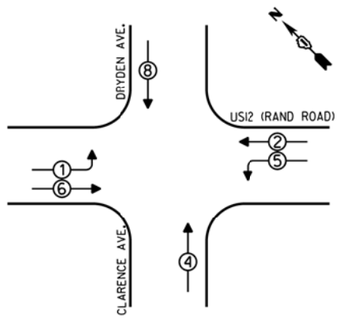
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT BEVERLY LANE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	40
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

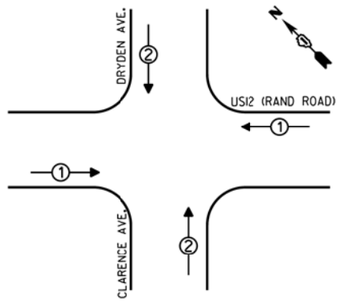
CONTROLLER SEQUENCE



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

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

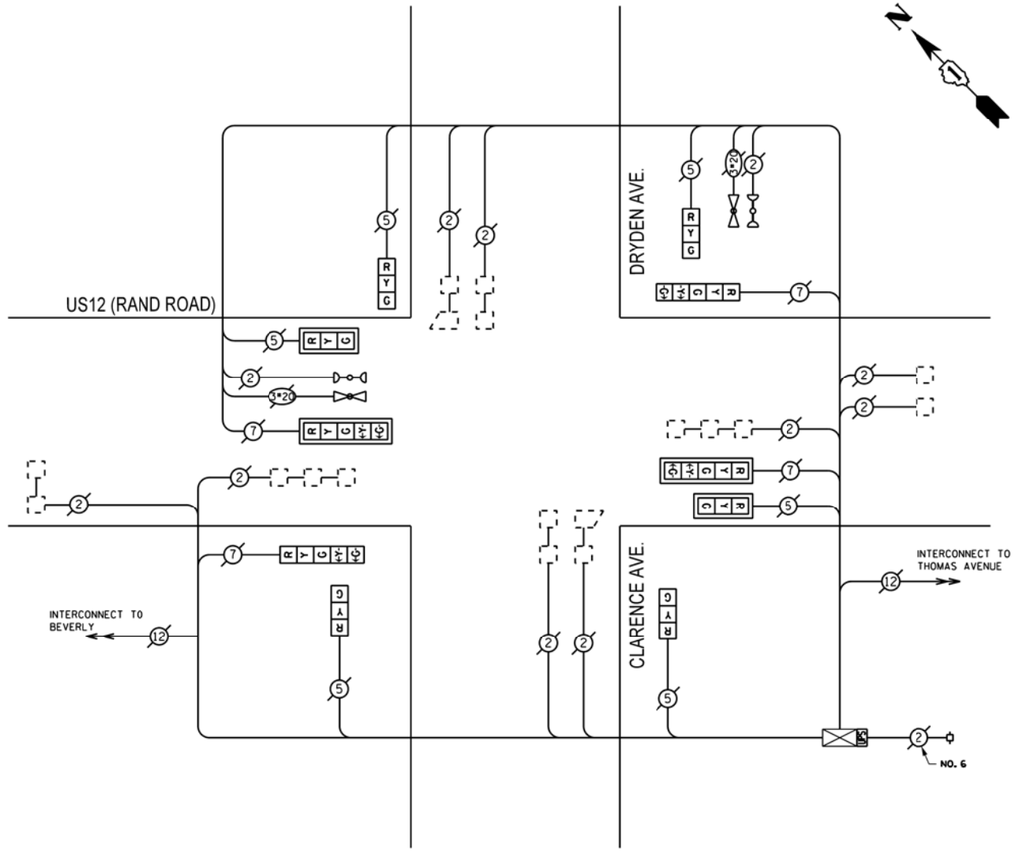


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇄	⇅

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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



CABLE PLAN

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	8		12	0.10	9.60
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	294.60

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

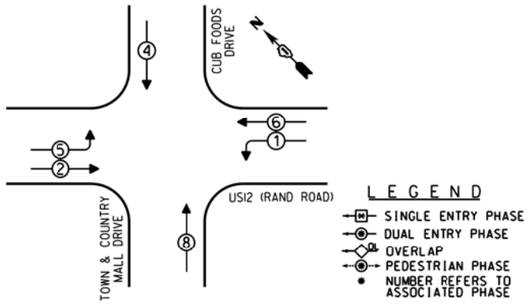
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT CLARENCE AVENUE /DRYDEN AVENUE

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

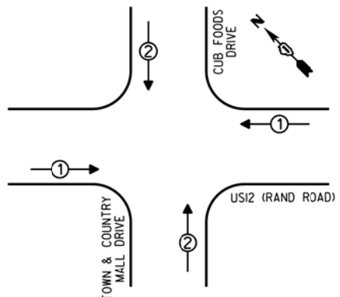
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	41
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

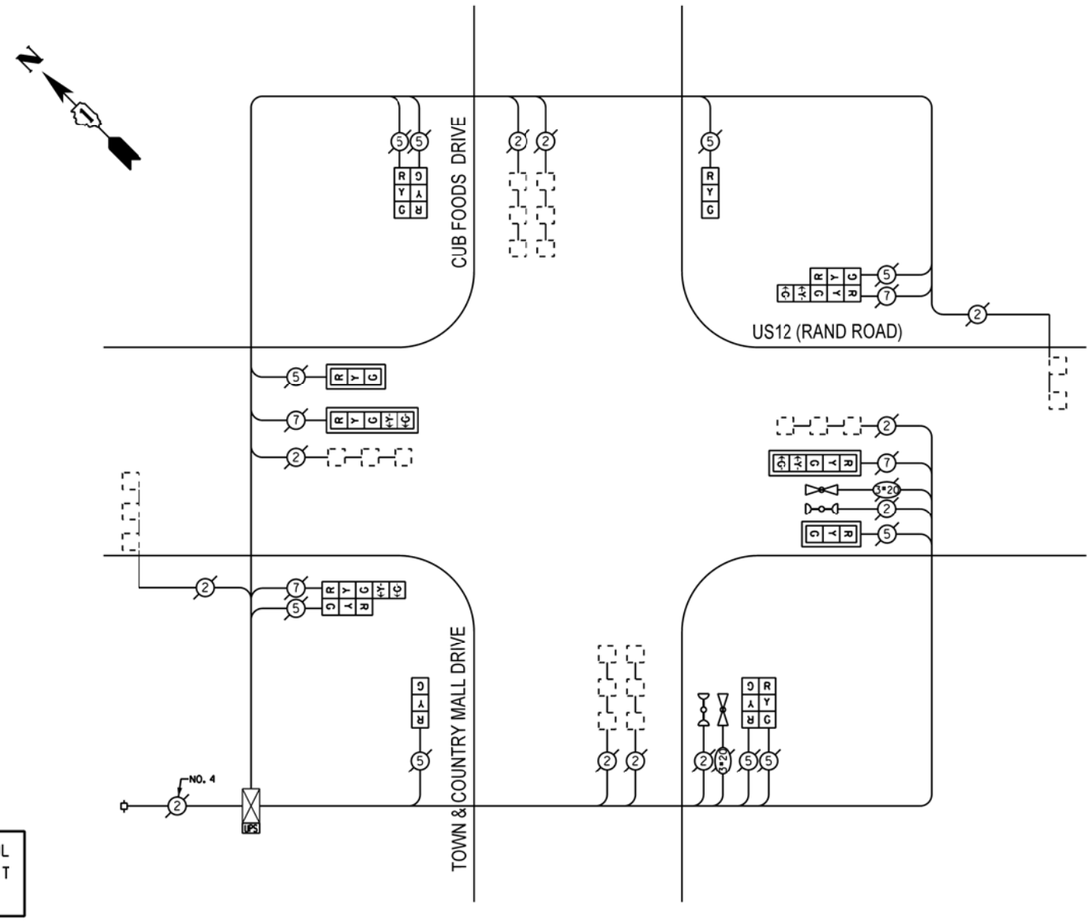


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	← →	↓ ↑

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	14		17	0.50	119.00
(YELLOW)	14		25	0.25	87.50
(GREEN)	14		15	0.25	52.50
ARROW	8		12	0.10	9.60
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	368.50

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

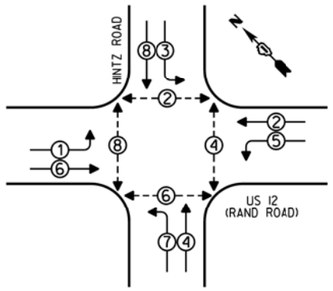
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT CUB FOODS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	42
		CONTRACT NO. 60W23		
	ILLINOIS	FED. AID PROJECT		

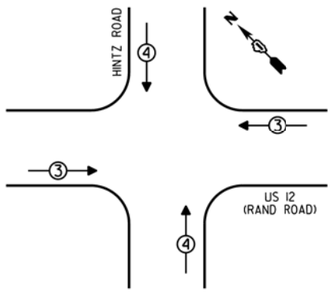
CONTROLLER SEQUENCE



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

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

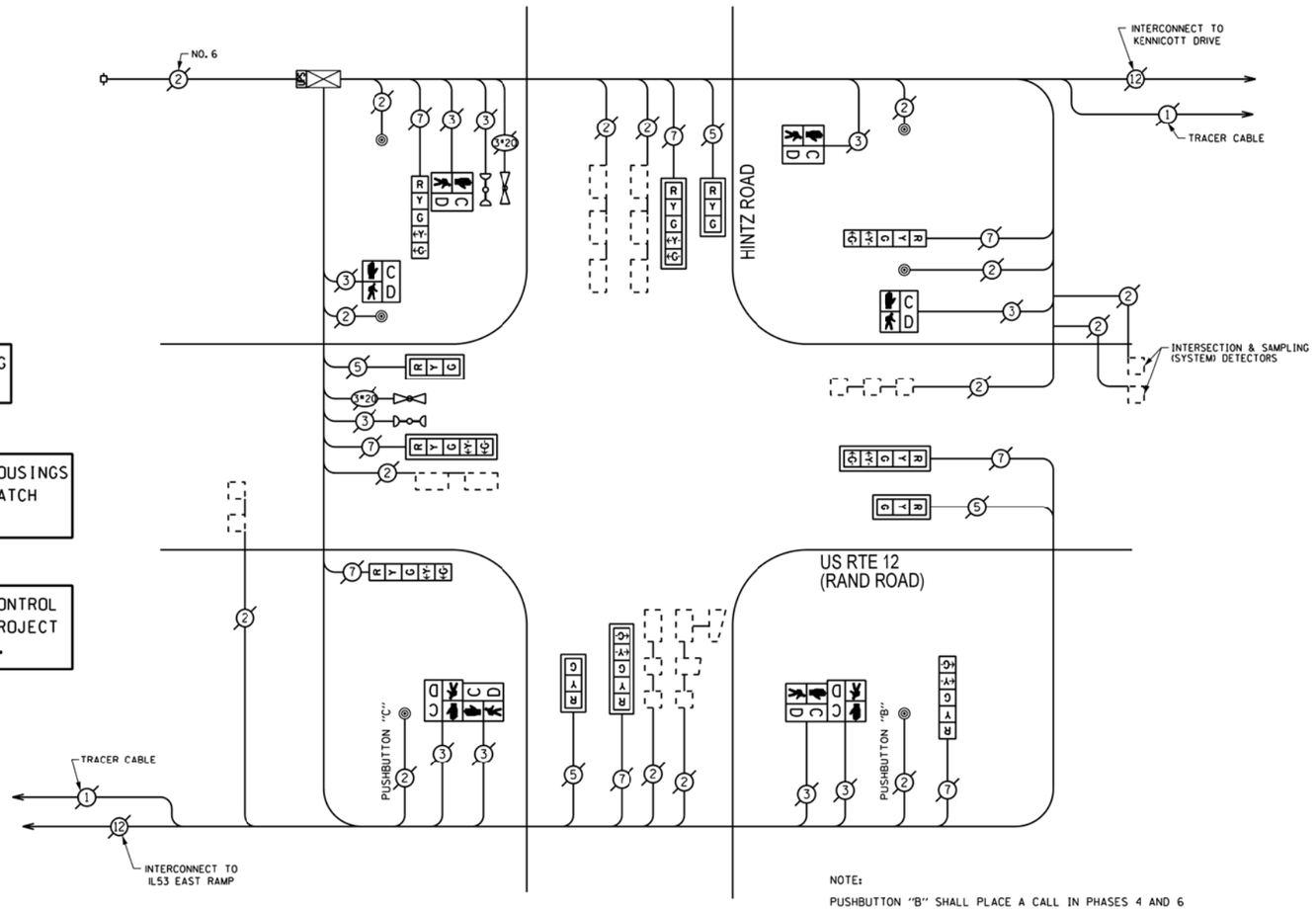


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

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



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

CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	541.20

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
6	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

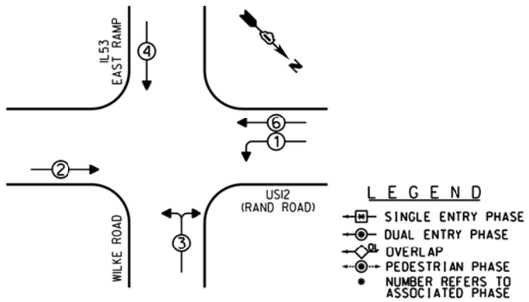
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT HINTZ ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	43
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SEQUENCE

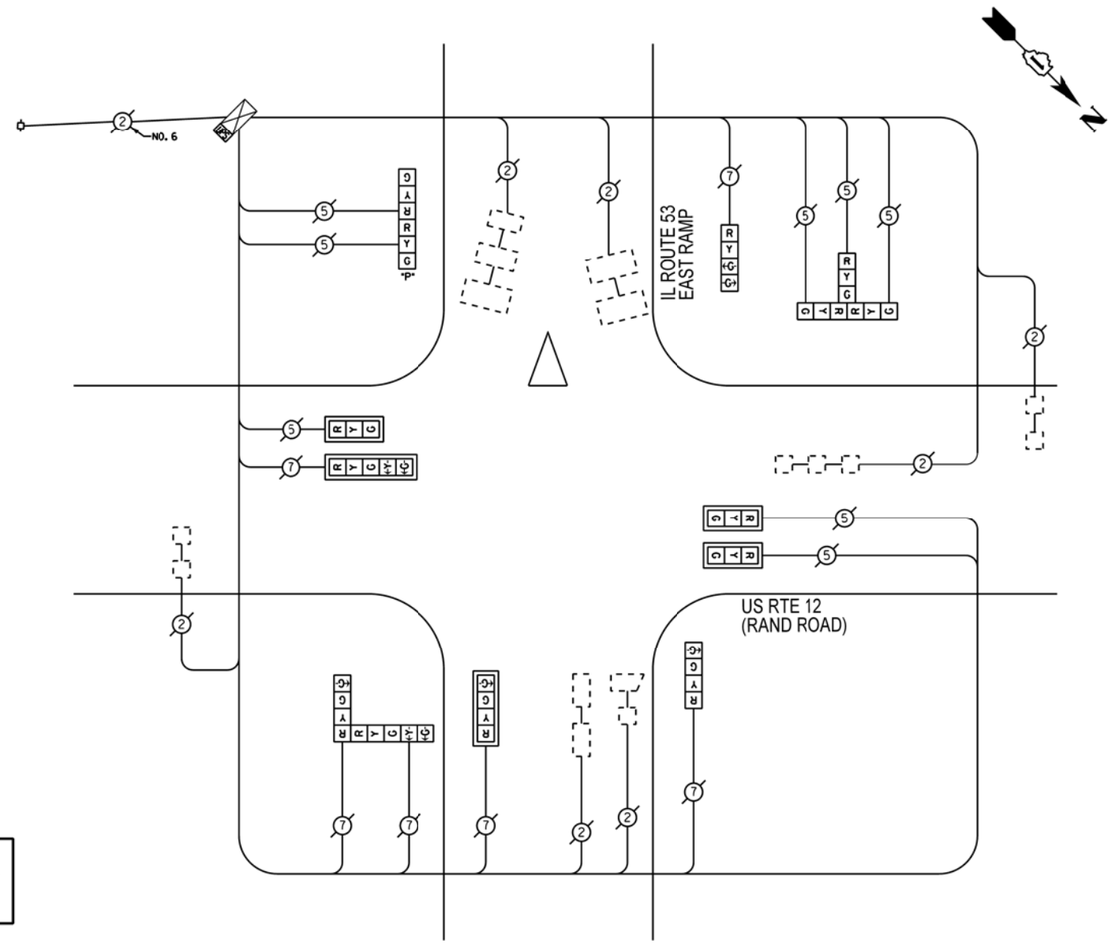


PHASE DESIGNATION DIAGRAM

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	14		17	0.50	119.00
(YELLOW)	14		25	0.25	87.50
(GREEN)	18		15	0.25	67.50
ARROW	4		12	0.10	4.80
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	378.80

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
5	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

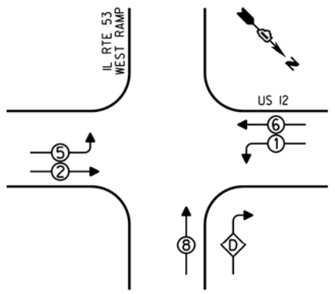
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT IL53 EAST RAMP

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	44
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE



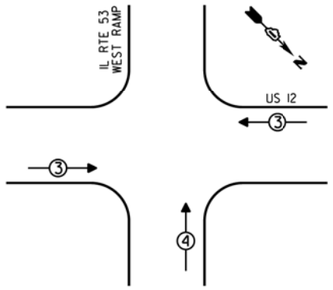
LEGEND

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

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE

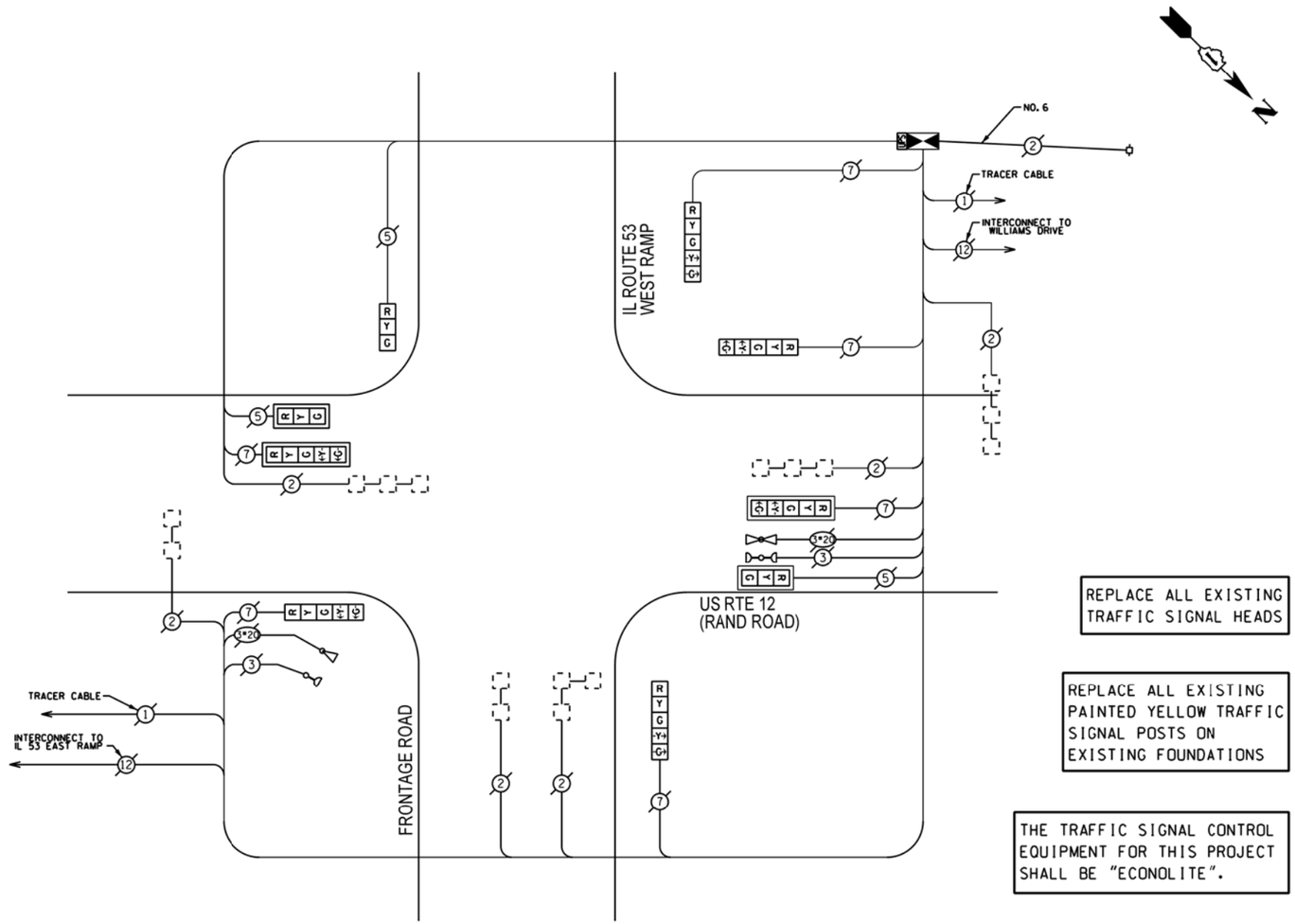


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	9		17	0.50	76.50
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW	12		12	0.10	14.40
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	280.90

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
6	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	TRAFFIC SIGNAL POST
1	EACH	CONTROLLER AND CABINET (COMPLETE)

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE1$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

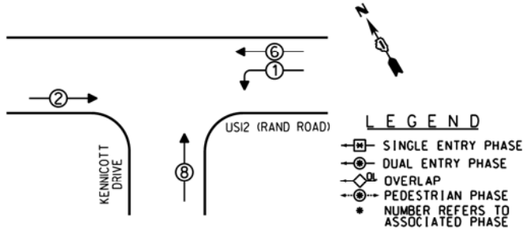
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT IL53 WEST RAMP/FRONTAGE ROAD

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

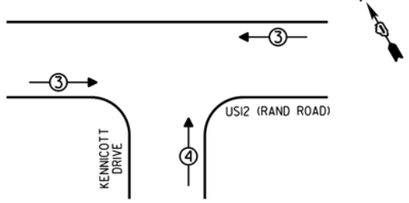
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	45
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

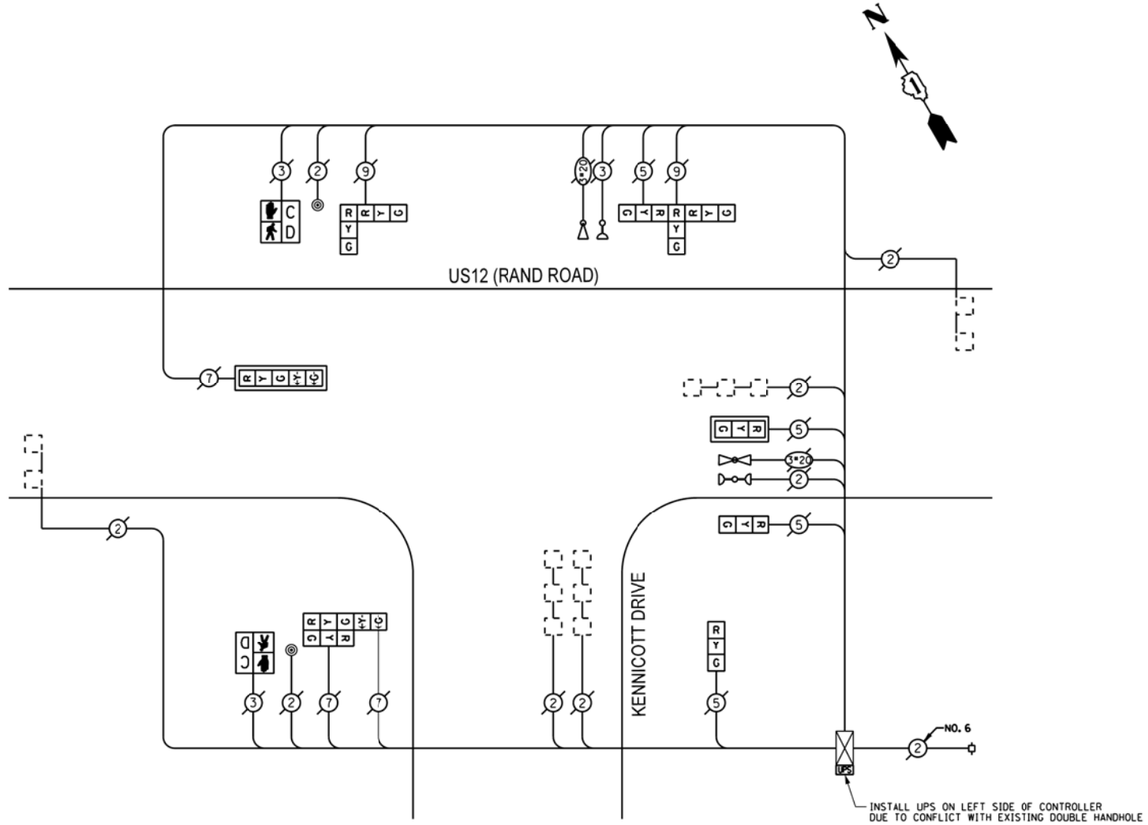


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇆	↑



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	11		17	0.50	93.50
(YELLOW)	11		25	0.25	68.75
(GREEN)	11		15	0.25	41.25
ARROW	4		12	0.10	4.80
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	358.30

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
1	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, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

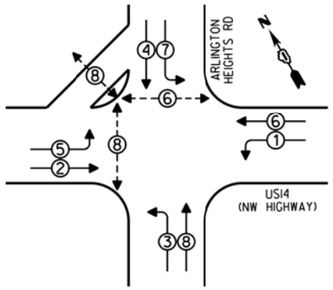
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT KENNICOTT DRIVE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	46
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

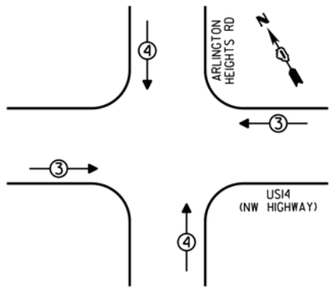
CONTROLLER SEQUENCE



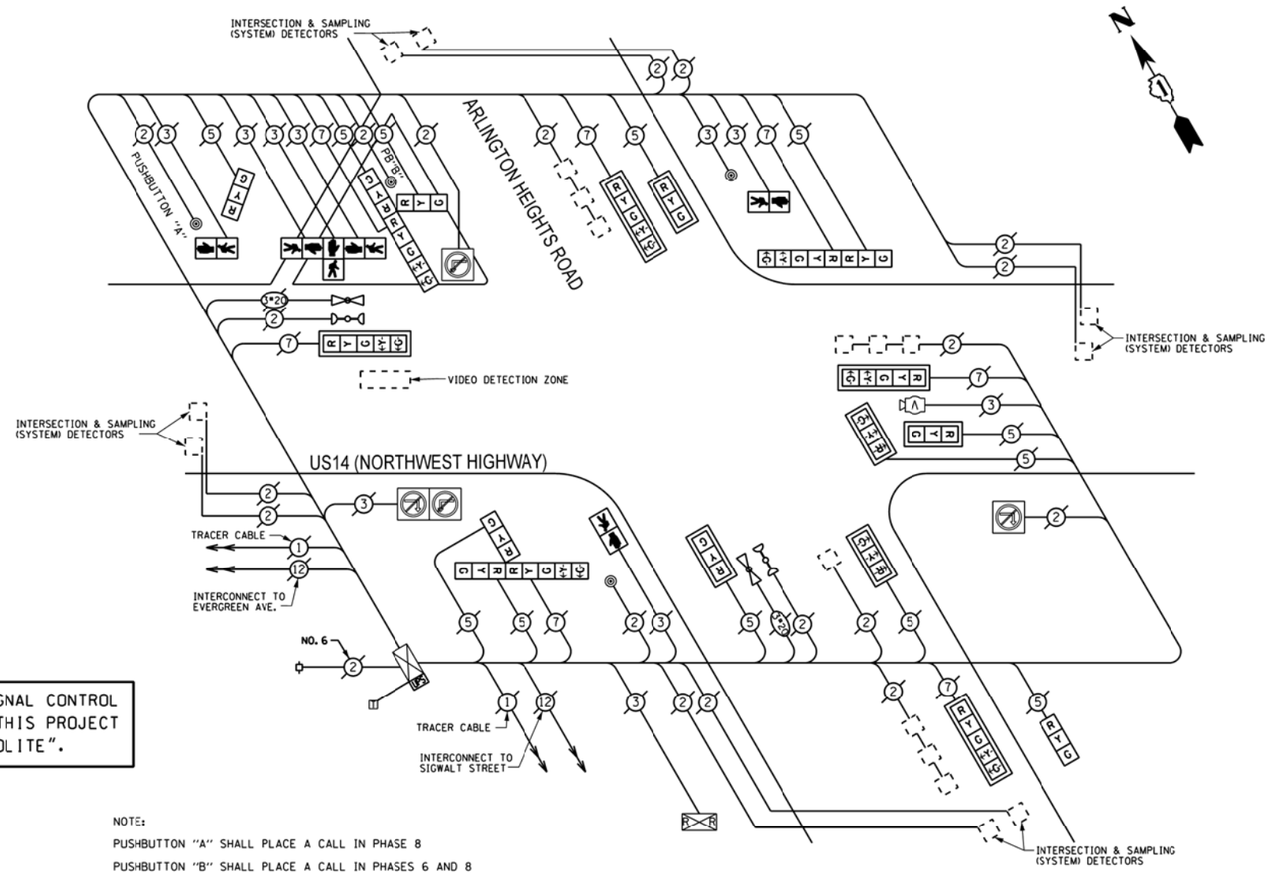
LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



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

NOTE:

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASE 8

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

CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATIONS	
SIGNAL (RED)	19		17	0.50	161.50
(YELLOW)	19		25	0.25	118.75
(GREEN)	19		15	0.25	71.25
ARROW	14		12	0.10	16.80
PED. SIGNAL	6		25	1.00	150.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	4		25	0.05	5.00
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	623.30

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

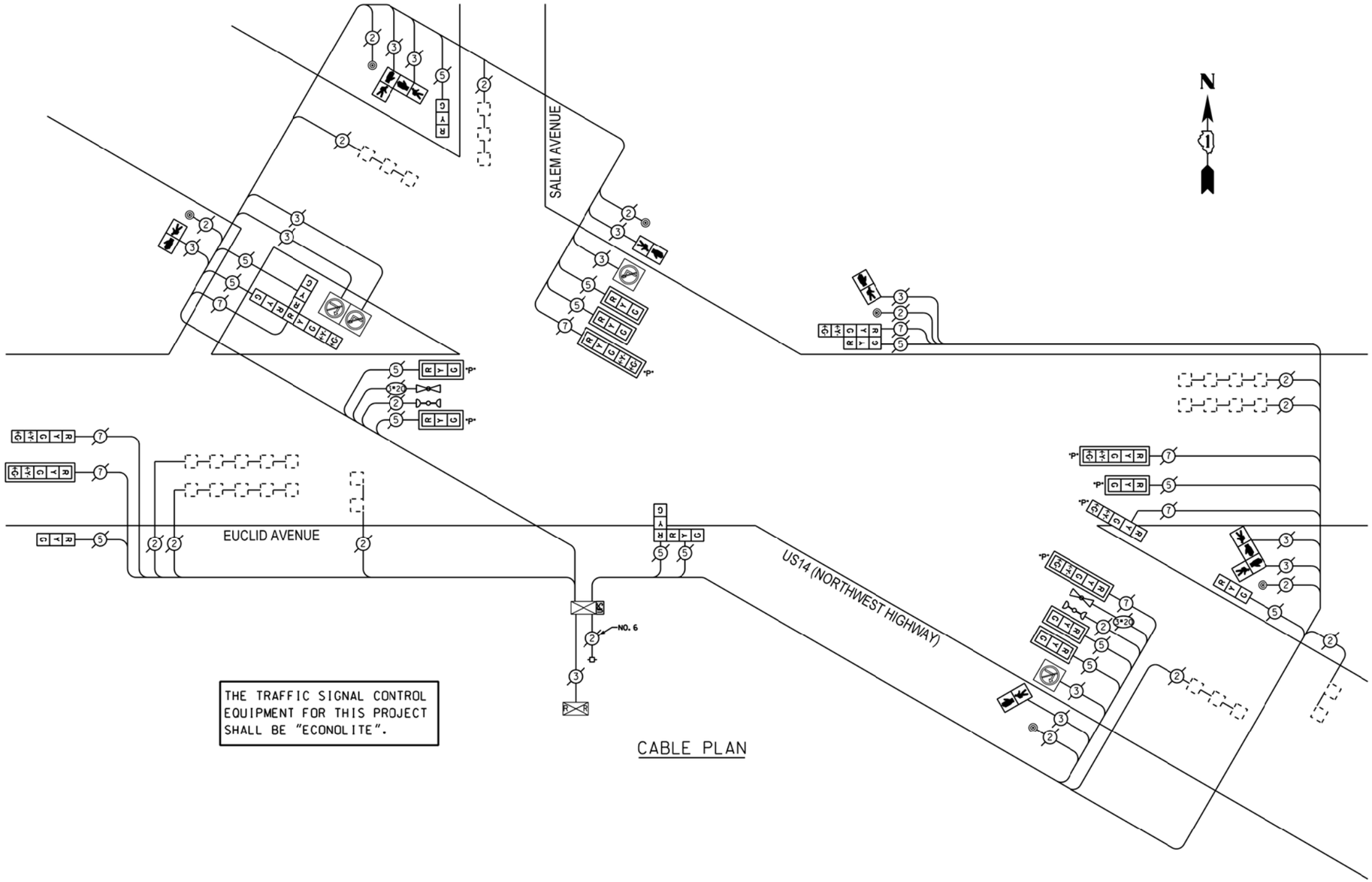
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US14 (NW HIGHWAY) AT ARLINGTON HEIGHTS ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	47
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			



CABLE PLAN

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

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	23		17	0.50	195.50
(YELLOW)	23		25	0.25	143.75
(GREEN)	23		15	0.25	86.25
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	4		25	0.05	5.00
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	749.70

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
6	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

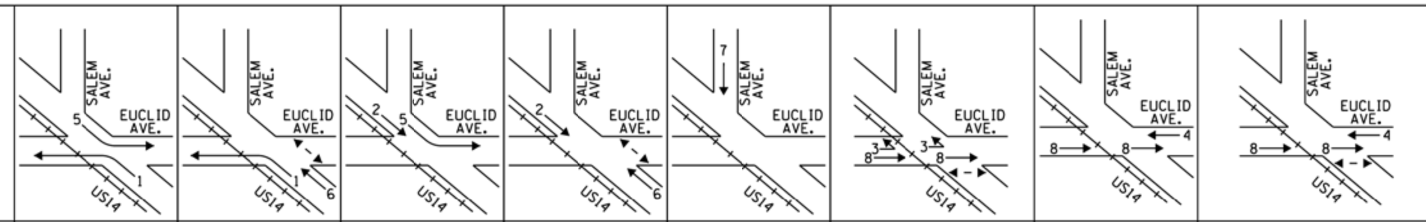
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US14 (NW HIGHWAY) AT EUCLID AVENUE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	48
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

SEQUENCE OF OPERATION



MOVEMENT (N)																																			F L A S H
PHASE	1+5				1+6				2+5				2+6				7				3+8					4+8				4+8					
INTERVAL	1	2	3	4	5	6	7		8	9			10	11	12A	12B	13	14A	14B		15	16	17A	17B	17C	18A	18B	18C	18D	19	20	21A	21B	21C	21D	
CHANGE TO	/	1+6	2+5	2+6	θ /	θ /	2+6		/	2+6			/	/	7, 3+8, 4+8		/	3+8, 4+8, 1+5, 1+6, 2+5, 2+6			θ /	θ /	4+8			1+5, 1+6, 2+5, 2+6				/	/	1+5, 1+6, 2+5, 2+6, 7				
U.S. RTE. 14 (NORTHWEST HIGHWAY) NW/B NEAR RIGHT, FAR RIGHT & MIDDLE MAST ARM SIGNALS	R	R	R	R	G	G	G		R	R			G	G	Y	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HIGHWAY) NW/B FAR LEFT & END MAST ARM SIGNALS	R ◄G	R ◄G	R ◄Y	R ◄Y	G ◄G	G ◄G	G ◄Y		R	R			G	G	Y	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HIGHWAY) SE/B NEAR RIGHT, FAR RIGHT & MIDDLE MAST ARM SIGNALS	R	R	R	R	R	R	R		G	G			G	G	Y	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HIGHWAY) SE/B FAR LEFT & END MAST ARM SIGNALS	R ◄G	R ◄Y	R ◄G	R ◄Y	R	R	R		G ◄G	G ◄Y			G	G	Y	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
EUCLID AVENUE (WEST OF TRACKS) E/B NEAR RIGHT & RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R		R	R			R	R	R	R	R	R	R		G	G	G	G	G	Y	R	R	R	G	G	Y	R	R	R	R
EUCLID AVENUE (WEST OF TRACKS) E/B NEAR LEFT & END MAST ARM SIGNALS	R	R	R	R	R	R	R		R	R			R	R	R	R	R	R	R		G ◄G	G ◄G	G ◄Y	G	G	Y	R	R	R	G	G	Y	R	R	R	R
EUCLID AVENUE (EAST OF TRACKS) E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R		R	R			R	R	R	R	R	R	R		G	G	G	G	G	G	G	Y	R	G	G	G	G	Y	R	R
EUCLID AVENUE (EAST OF TRACKS) E/B FAR LEFT & END MAST ARM SIGNALS	R	R	R	R	R	R	R		R	R			R	R	R	R	R	R	R		G ◄G	G ◄G	G ◄G	G ◄G	G ◄Y	G	G	Y	R	G	G	G	G	Y	R	R
EUCLID AVENUE W/B ALL SIGNALS	R	R	R	R	R	R	R		R	R			R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	R
SALEM AVENUE SW/B ALL SIGNALS	R	R	R	R	R	R	R		R	R			R	R	R	R	G	Y	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING EUCLID AVE. ON EAST SIDE OF U.S. RTE. 14 (NORTHWEST HIGHWAY)	H	H	H	H	•P	••FH	H		H	H			•P	••FH	H	H	H	H	H		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	DARK
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 (N.W. HIGHWAY) ON SOUTH SIDE OF EUCLID AVE.	H	H	H	H	H	H	H		H	H			H	H	H	H	H	H	H		•P	••FH	H	H	H	H	H	H	H	•P	••FH	H	H	H	H	

• PHASE 2+6 SHALL BE PLACED ON RECALL

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** FLASHING "[flashing hand]" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

θ = THIS "[walk]" OR FLASHING "[flashing hand]" INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "[walk]" OR FLASHING "[flashing hand]" INTERVALS.

"[walk]" AND FLASHING "[flashing hand]" TIMINGS TO BE SET ONLY ON PHASES WHERE "[walk]" AND FLASHING "[flashing hand]" ARE INDICATED IN THE SEQUENCE OF OPERATION.

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		5			8	8		10	10			13		15					15				19					19	PREEMPTION NUMBER 3	PREEMPTION NUMBER 4	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	2	3	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR 3	1C	2	1E	1F	3	2	1J	3	2	1M	1N	3	1Q	2 OR 3	1S	1T	1U	1V	2	1X	1Y	1Z	3	1BB	1CC	1DD	1EE	2	3			
U.S. RTE. 14 (NORTHWEST HIGHWAY) NW/B NEAR RIGHT, FAR RIGHT & MIDDLE MAST ARM SIGNALS	R	G	G	G	Y	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
U.S. RTE. 14 (NORTHWEST HIGHWAY) NW/B FAR LEFT & END MAST ARM SIGNALS	R ◄Y	G ◄G	G ◄Y	G ◄G	Y	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
U.S. RTE. 14 (NORTHWEST HIGHWAY) SE/B NEAR RIGHT, FAR RIGHT & MIDDLE MAST ARM SIGNALS	R	R	R	R	R	R	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
U.S. RTE. 14 (NORTHWEST HIGHWAY) SE/B FAR LEFT & END MAST ARM SIGNALS	R ◄Y	R	R	R	R	R	G ◄Y	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
EUCLID AVENUE (WEST OF TRACKS) E/B NEAR RIGHT & RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	G	G	G	G	G	Y	R	R	R	G	R	G	◊
EUCLID AVENUE (WEST OF TRACKS) E/B NEAR LEFT & END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G ◄G	Y	R	R	R	G ◄G	G ◄Y	G	G	G	Y	R	R	R	G	R	G	◊
EUCLID AVENUE (EAST OF TRACKS) E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	G	G	G	Y	R	G	R	G	◊
EUCLID AVENUE (EAST OF TRACKS) E/B FAR LEFT & END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G ◄G	G ◄G	G ◄G	Y	R	G ◄G	G ◄G	G ◄G	G ◄Y	G	G	G	Y	R	G	R	G	◊
EUCLID AVENUE W/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	G	R	G	◊
SALEM AVENUE SW/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◊
PEDESTRIAN SIGNALS CROSSING EUCLID AVE. ON EAST SIDE OF U.S. RTE. 14 (NORTHWEST HIGHWAY)	H	FH	H	FH	H	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 (N.W. HIGHWAY) ON SOUTH SIDE OF EUCLID AVE.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	H	H	H	FH	H	H	H	H	FH	H	H	◊

◊ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SEQUENCE OF OPERATION, EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION US14 (NW HIGHWAY) AT EUCLID AVENUE
\$FILEL\$		DRAWN -	REVISED -		
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		
\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE: NONE / SHEET OF SHEETS / STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	49
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

RAILROAD PREEMPTION SEQUENCE OF OPERATION

														PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		8		10		13		15		19										
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER														2		3						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	1J	2	1L	2	1N	2	1Q	2	1S	2	3	4	5		
U.S. RTE. 14 (NORTHWEST HIGHWAY) NW/B NEAR RIGHT, FAR RIGHT & MIDDLE MAST ARM SIGNALS	R	Y	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
U.S. RTE. 14 (NORTHWEST HIGHWAY) NW/B FAR LEFT & END MAST ARM SIGNALS	R ◄Y	Y	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
U.S. RTE. 14 (NORTHWEST HIGHWAY) SE/B NEAR RIGHT, FAR RIGHT & MIDDLE MAST ARM SIGNALS	R	R	R	Y	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
U.S. RTE. 14 (NORTHWEST HIGHWAY) SE/B FAR LEFT & END MAST ARM SIGNALS	R ◄Y	R	R	Y	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
EUCLID AVENUE (WEST OF TRACKS) E/B NEAR RIGHT & RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	△
EUCLID AVENUE (WEST OF TRACKS) E/B NEAR LEFT & END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	△
EUCLID AVENUE (EAST OF TRACKS) E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	G	G	G	Y	R	R	△
EUCLID AVENUE (EAST OF TRACKS) E/B FAR LEFT & END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	G ◄G	G ◄G	G	G	R	R	G	G	G ◄G	Y	R	R	△
EUCLID AVENUE W/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	△
SALEM AVENUE SW/B ALL SIGNALS	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	△
PEDESTRIAN SIGNALS CROSSING EUCLID AVE. ON EAST SIDE OF U.S. RTE. 14 (NORTHWEST HIGHWAY)	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 (N.W. HIGHWAY) ON SOUTH SIDE OF EUCLID AVE.	H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	△
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS SE/B U.S. RTE. 14 (NORTHWEST HIGHWAY)	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	△
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS NW/B U.S. RTE. 14 (NORTHWEST HIGHWAY)	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	△
																					HOLD	

△ 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.

NRT = "NO RIGHT TURN" OR

NLT = "NO LEFT TURN" OR

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

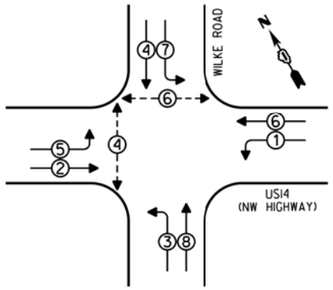
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAILROAD PREEMPTION SEQUENCE OF OPERATION
US14 (NW HIGHWAY) AT EUCLID AVENUE

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

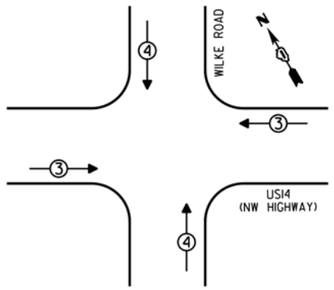
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	50
		CONTRACT NO. 60W23		
	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE

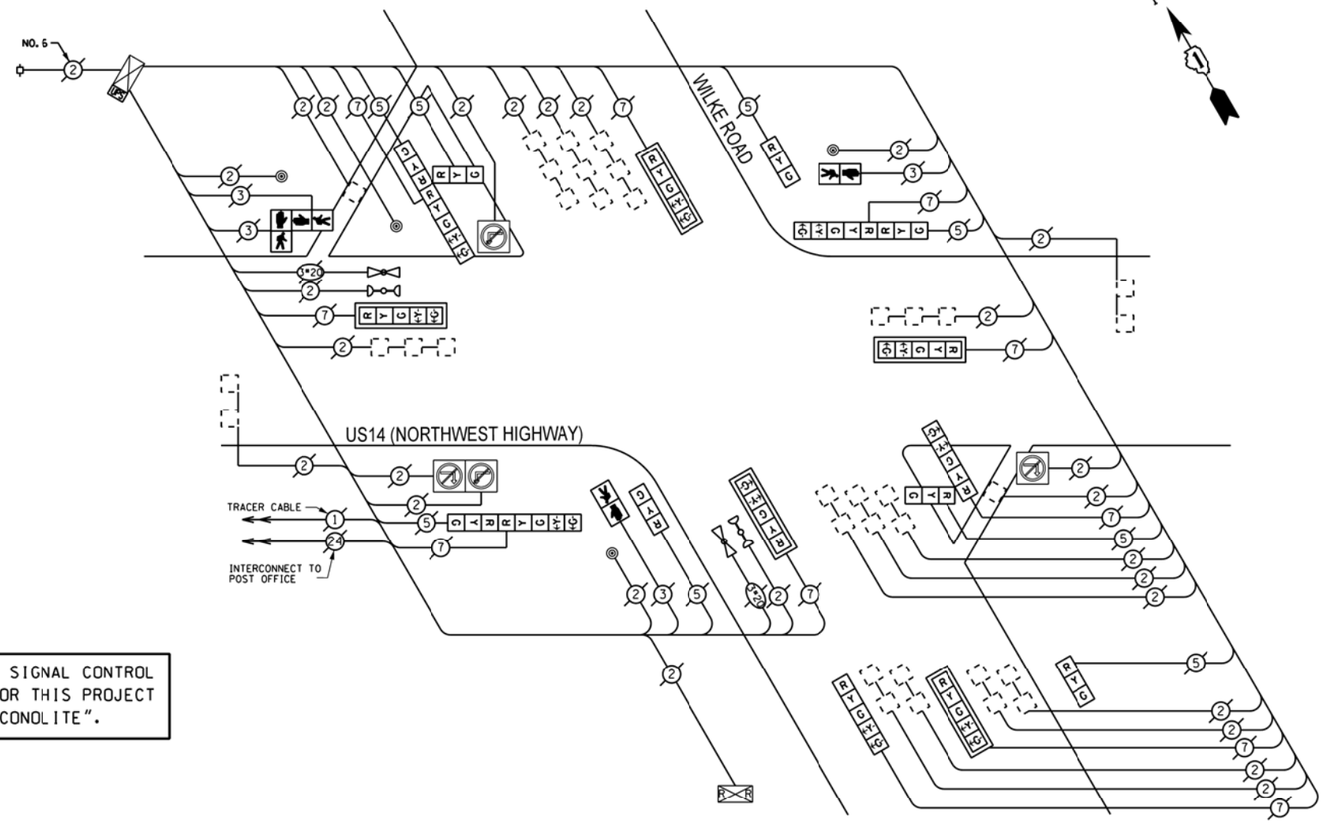


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE
PREEMPTION SEQUENCE



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



CABLE PLAN

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	18		17	0.50	153.00
(YELLOW)	18		25	0.25	112.50
(GREEN)	18		15	0.25	67.50
ARROW	20		12	0.10	24.00
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	4		25	0.05	5.00
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	562.00

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

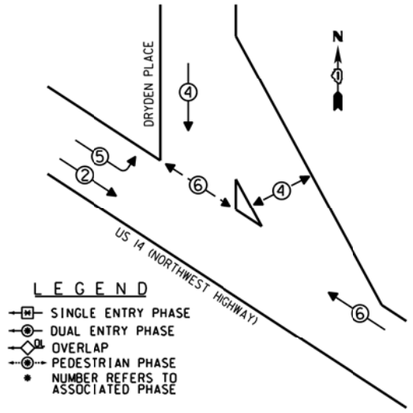
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US14 (NW HIGHWAY) AT WILKE ROAD

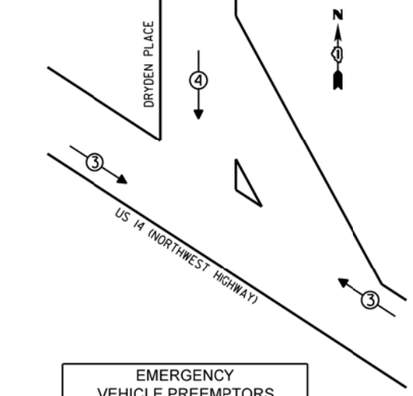
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	51
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			



PHASE DESIGNATION DIAGRAM

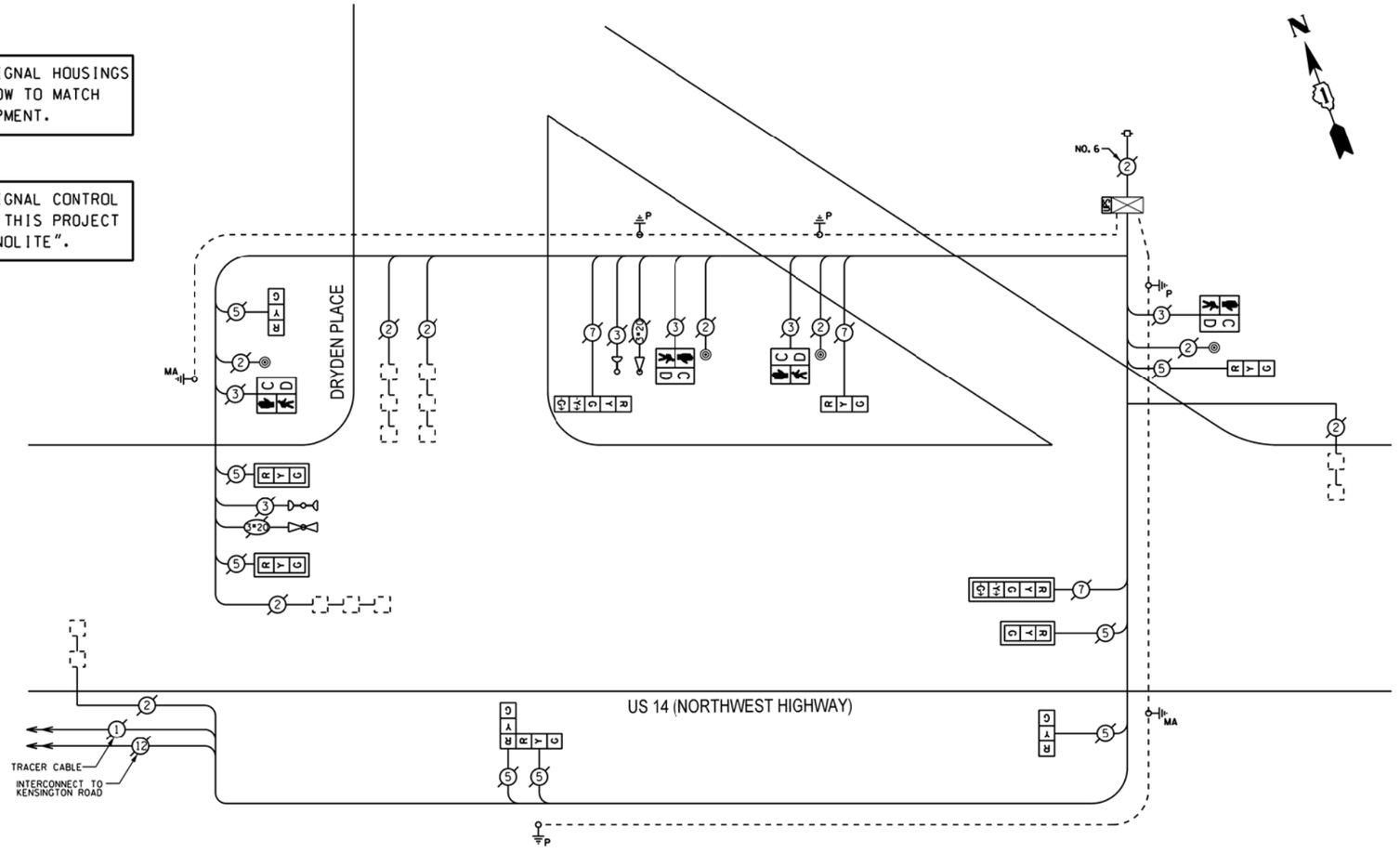
EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇄	↓

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

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



CABLE PLAN

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	11		17	0.50	93.50
(YELLOW)	11		25	0.25	68.75
(GREEN)	11		15	0.25	41.25
ARROW	4		12	0.10	4.80
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	408.30

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

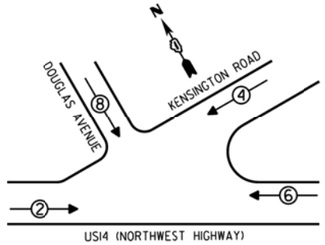
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US14 (NORTHWEST HIGHWAY) AT DRYDEN PLACE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-005-I	COOK	85	52
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

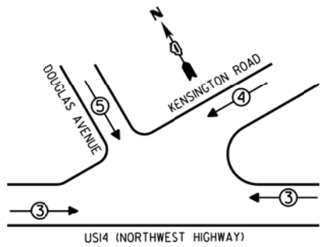


LEGEND

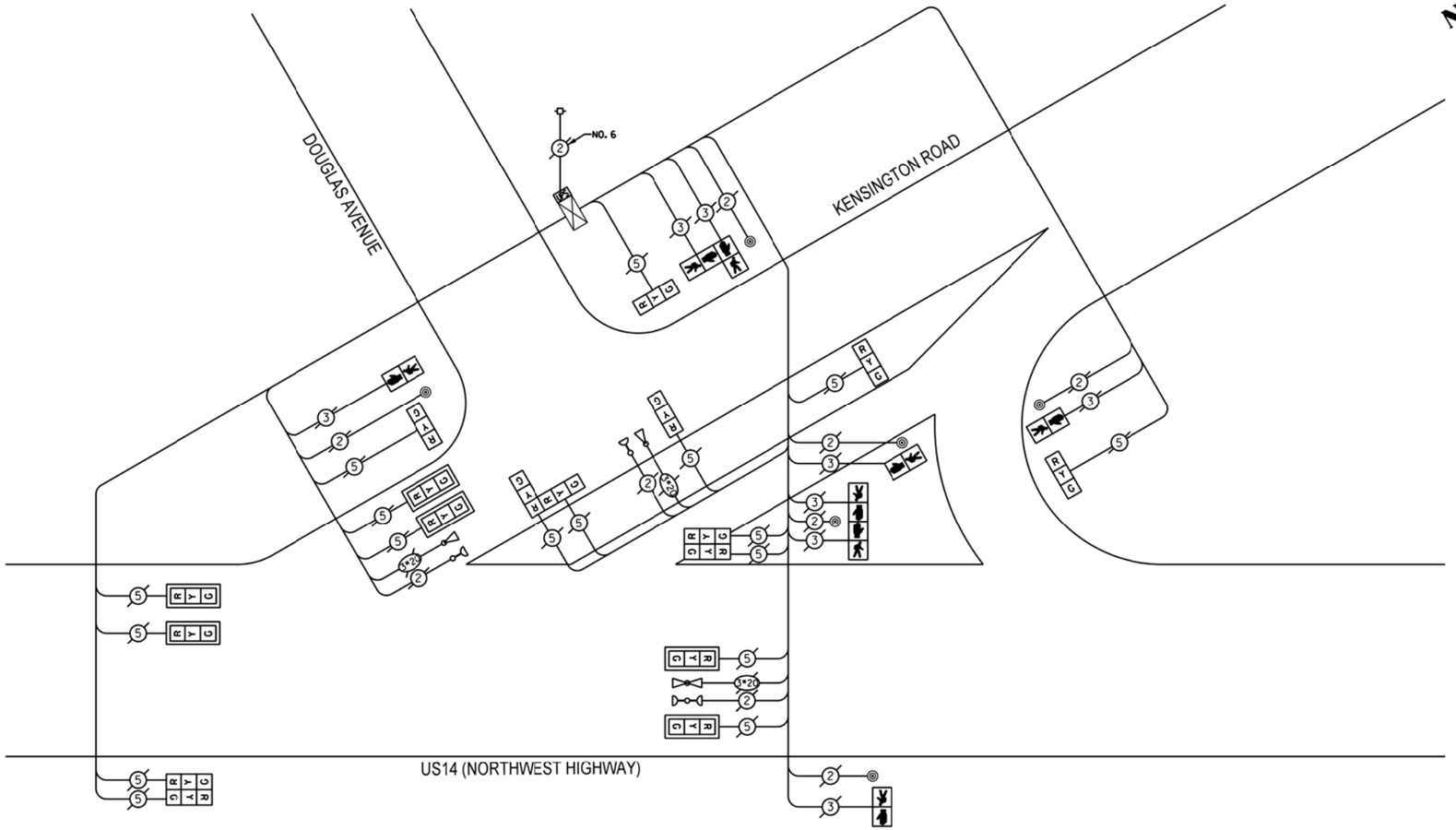
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	← →	↙	↘



CABLE PLAN

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	18		17	0.50	153.00
(YELLOW)	18		25	0.25	112.50
(GREEN)	18		15	0.25	67.50
ARROW			12	0.10	
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	633.00

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
6	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED
6	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

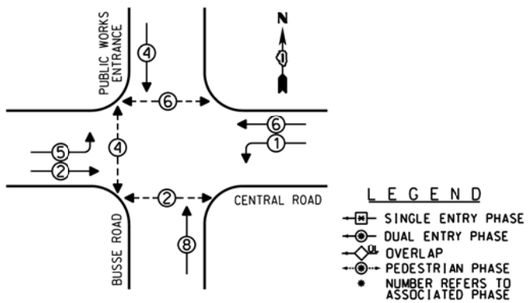
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US14 (NW HIGHWAY) AT KENSINGTON ROAD AND DOUGLAS AVENUE

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

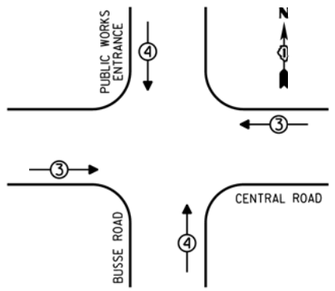
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	53
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SEQUENCE

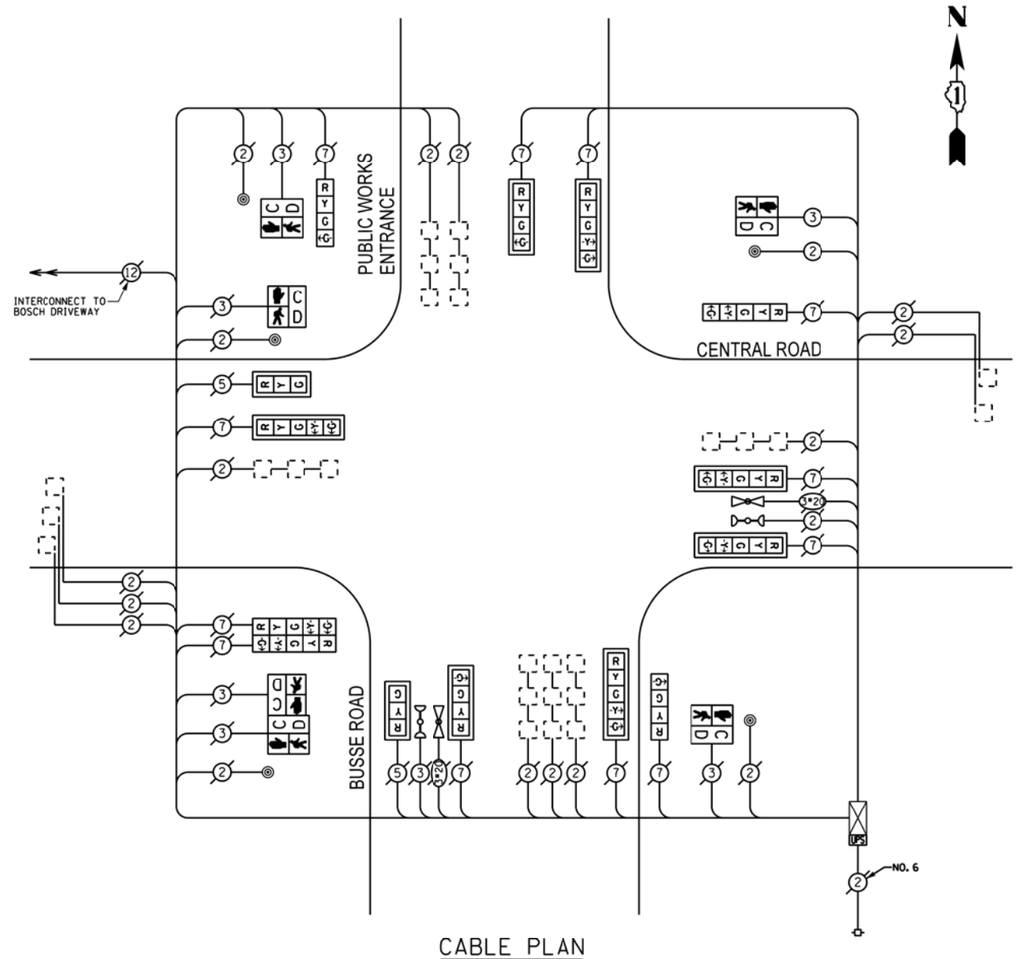


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇆	⇅



CABLE PLAN

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

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL HOUSINGS SHALL BE BLACK TO MATCH EXISTING EQUIPMENT.

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	14		17	0.50	119.00
(YELLOW)	14		25	0.25	87.50
(GREEN)	14		15	0.25	52.50
ARROW	20		12	0.10	24.00
PED. SIGNAL	6		25	1.00	150.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	533.00

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
1	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
5	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

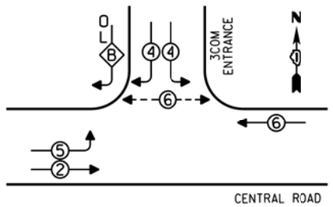
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, BUSSE ROAD AT CENTRAL ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	54
		CONTRACT NO. 60W23		
	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



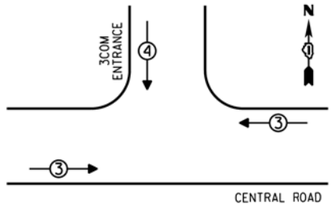
LEGEND

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

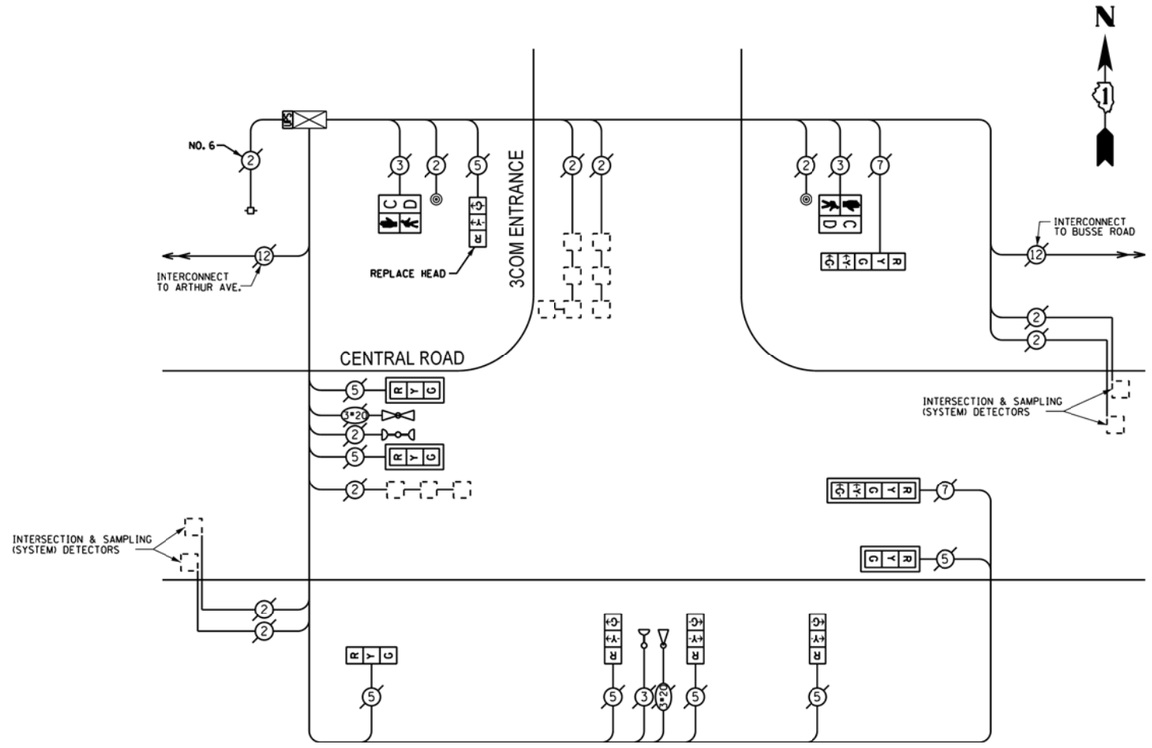
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	4	+	5

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

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

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS EXCEPT AS NOTED

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	4		12	0.10	4.80
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	339.80

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4	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
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

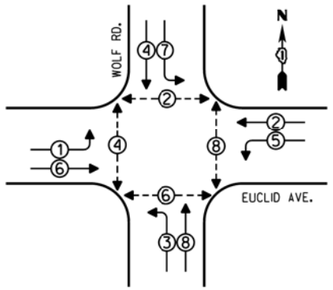
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, CENTRAL ROAD AT 3COM ENTRANCE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	55
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

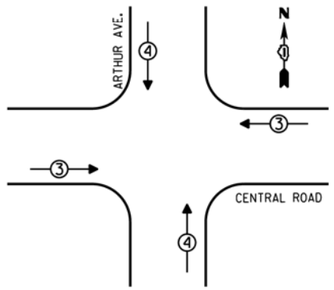
CONTROLLER SEQUENCE



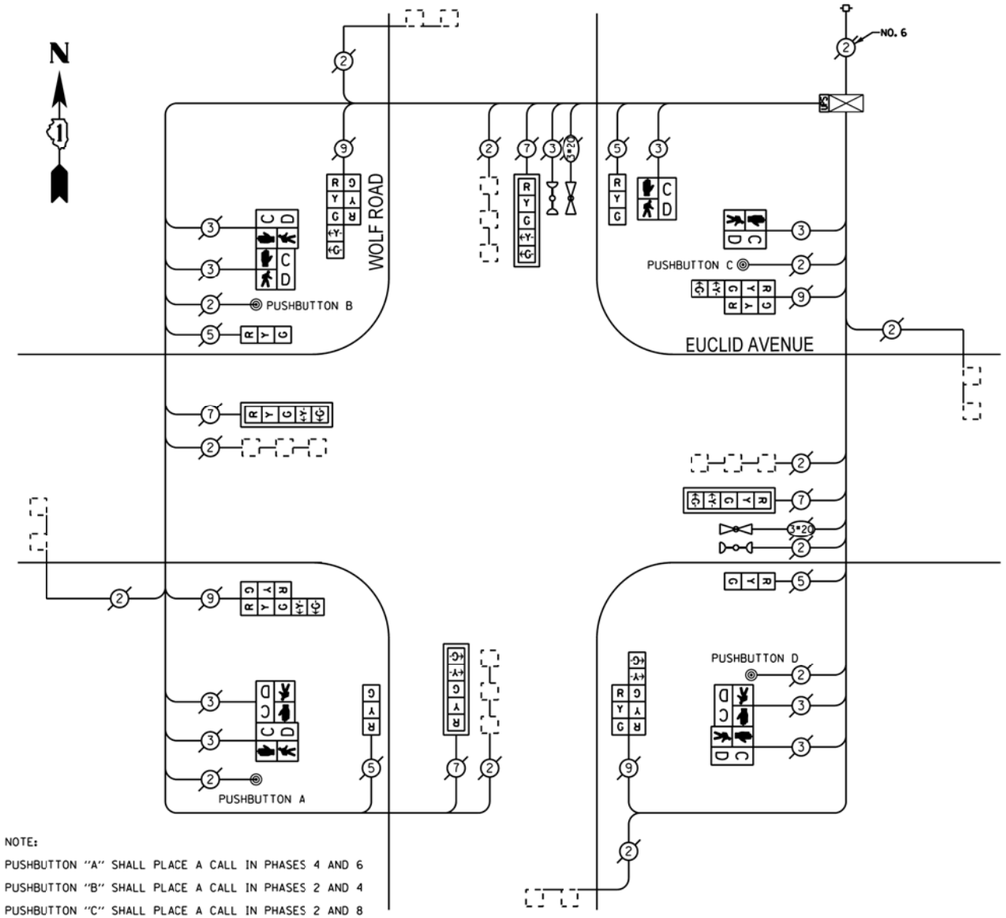
LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇄	⇅



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

CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE X LED	X % OPERATIONS	
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	615.20

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

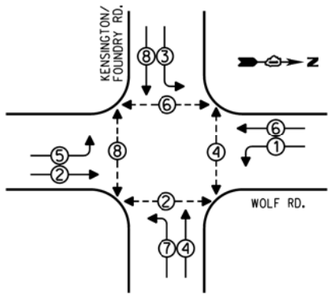
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	56
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

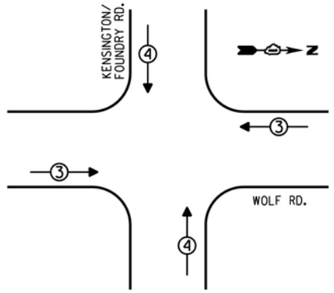
CONTROLLER SEQUENCE



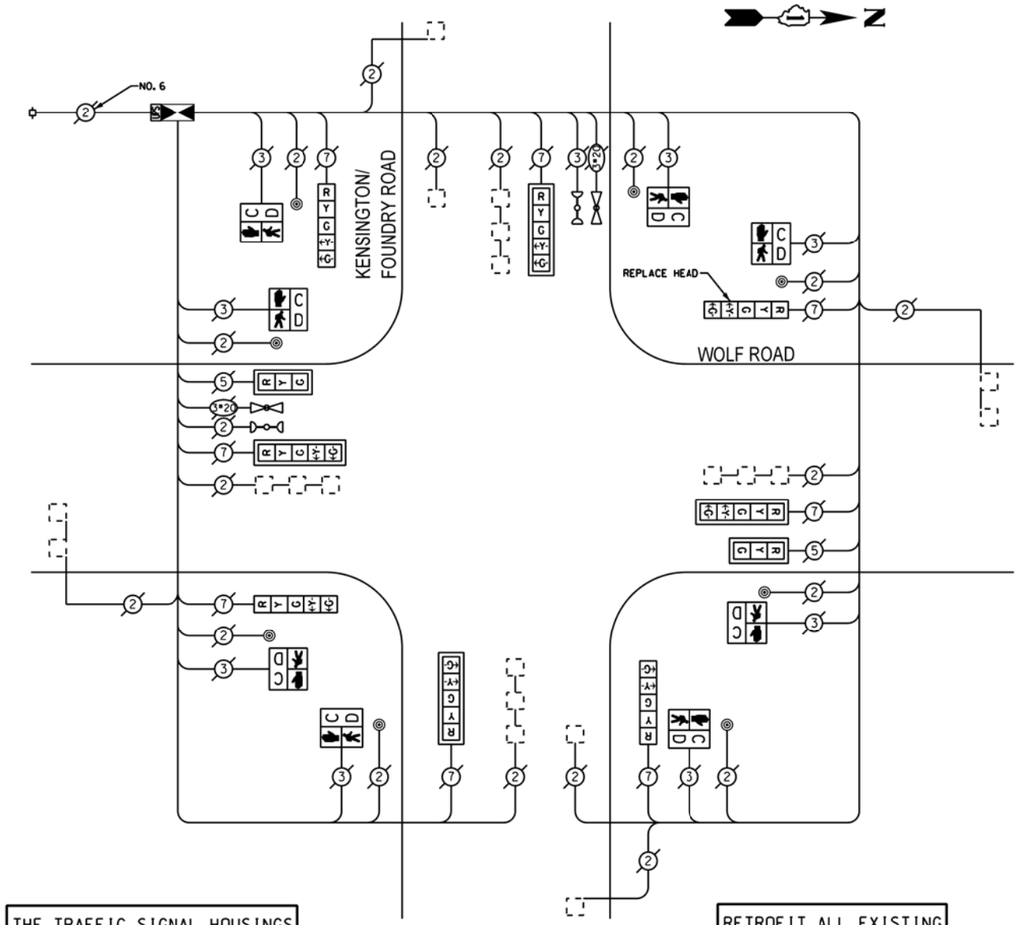
LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS EXCEPT AS NOTED

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	504.20

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
8	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
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
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

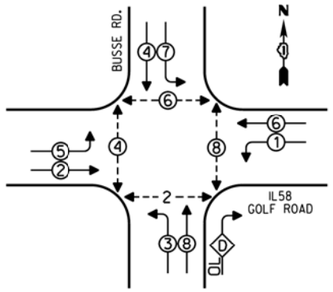
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, KENSINGTON/FOUNDRY ROAD AT WOLF ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	57
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

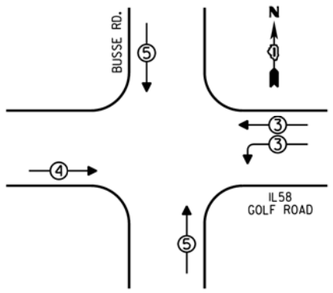


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

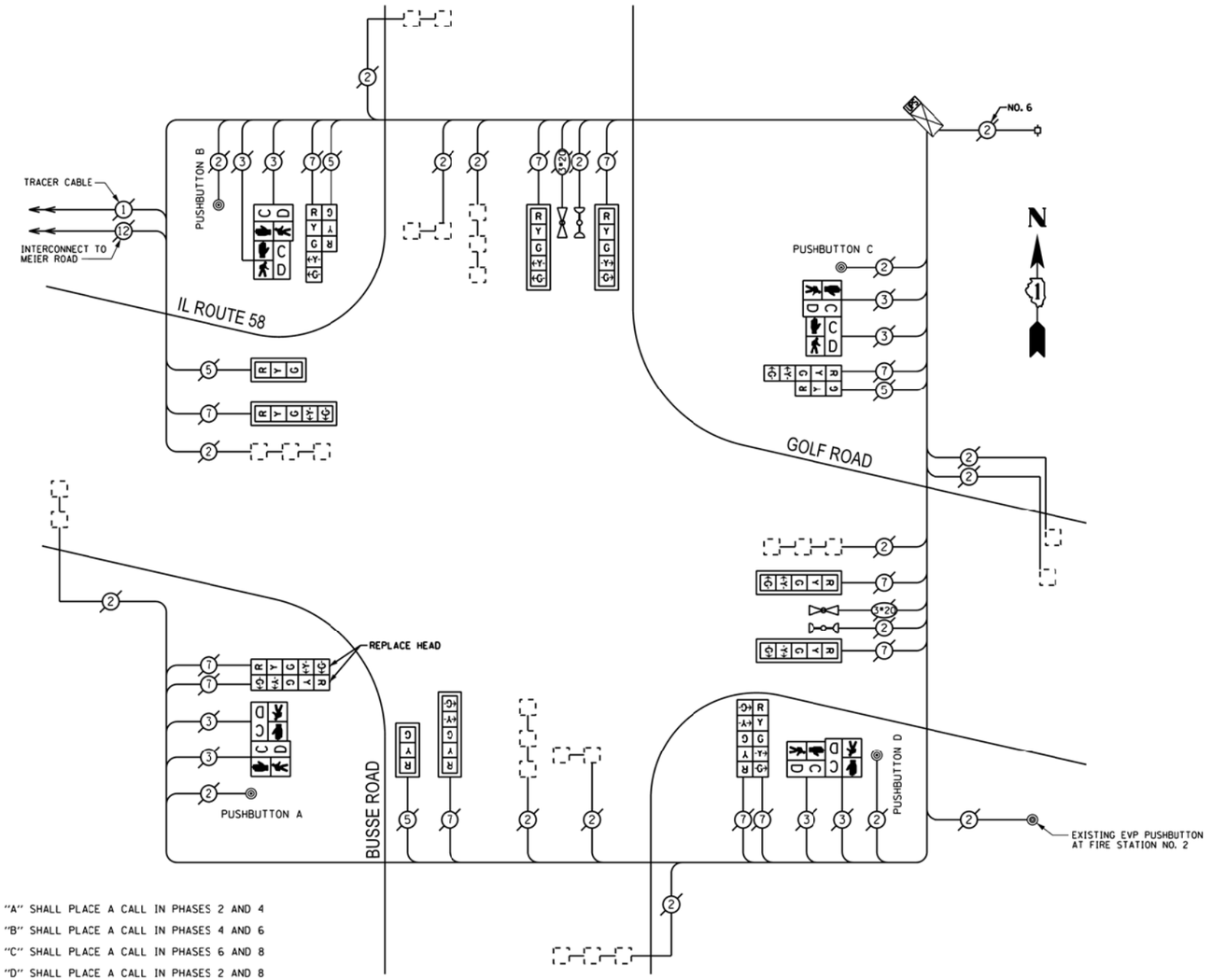
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			



NOTE:

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

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

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

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

CABLE PLAN

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS EXCEPT AS NOTED

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

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

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

TYPE	NO. OF LAMPS	WATTAGE x INCAND	WATTAGE x LED	x % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	24		12	0.10	28.80
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	624.80

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
1	EACH	SIGNAL HEAD, 2-FACE, 5 SECTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

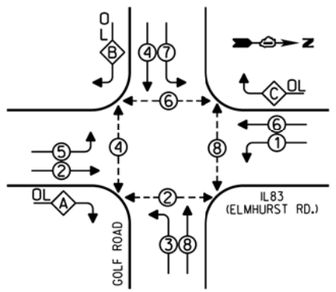
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL58 (GOLF ROAD) AT BUSSE ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	58
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

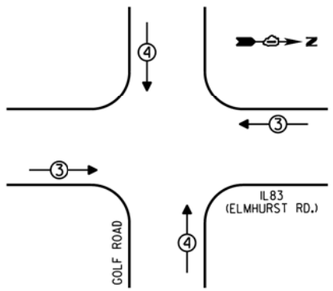


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

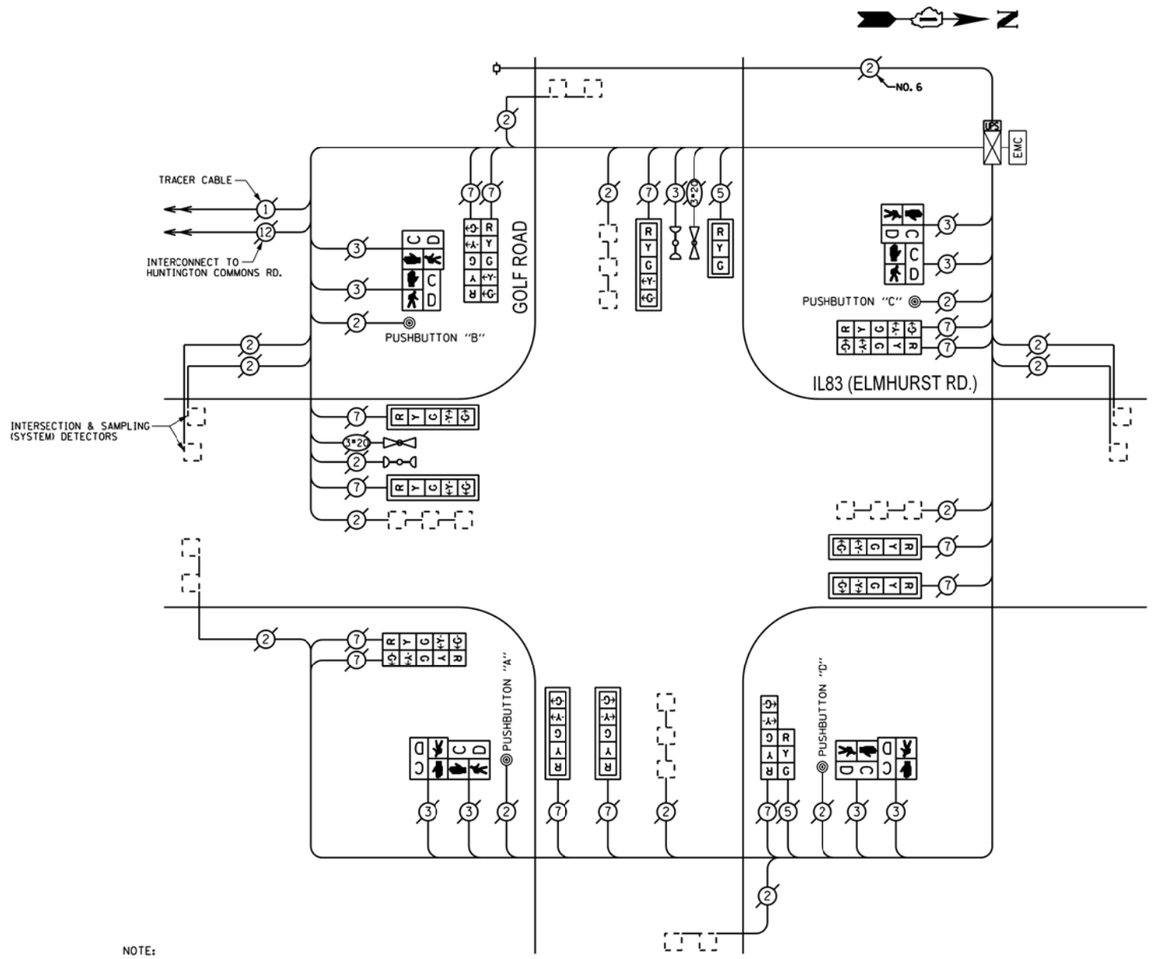
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	6	+	7

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇆	⇅



CABLE PLAN

NOTE:

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

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

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

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

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

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

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

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

TYPE	NO. OF LAMPS	WATTAGE x INCAND	WATTAGE LED	x % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	28		12	0.10	33.60
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	629.60

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

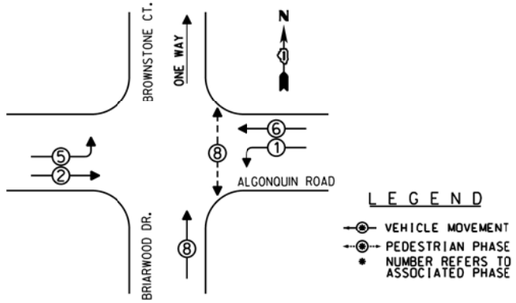
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL83 (ELMHURST ROAD) AT IL58 (GOLF ROAD)

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

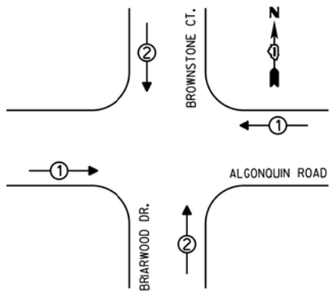
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	59
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

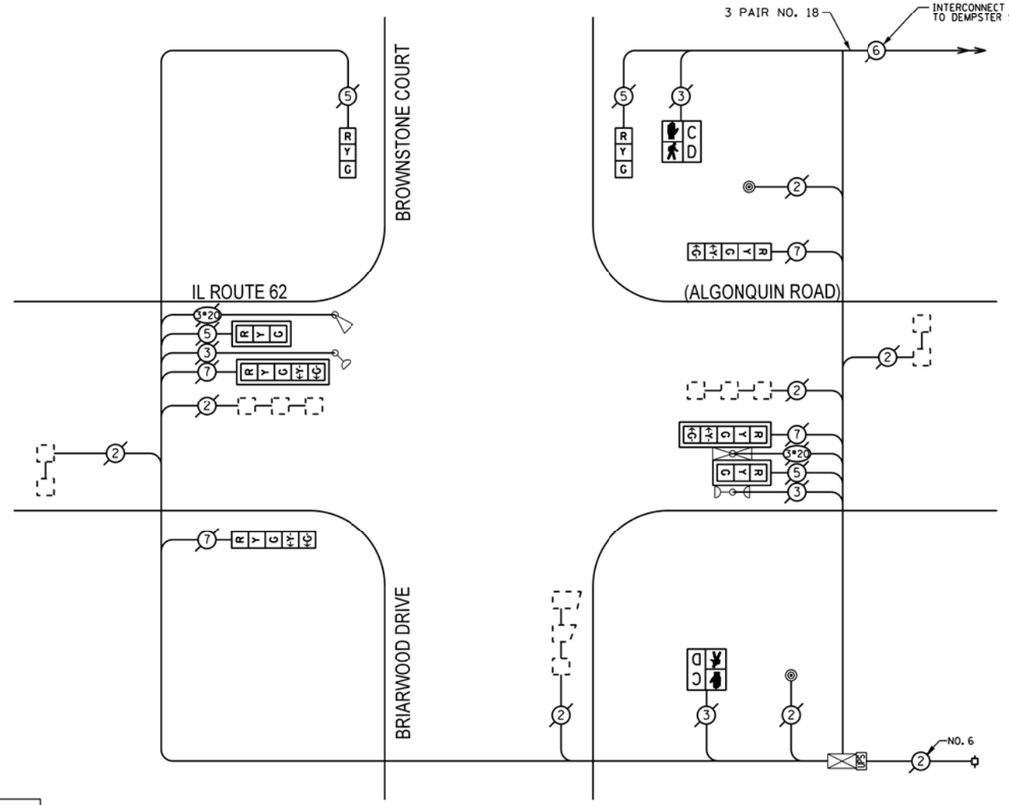
EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	⇆	⇅

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

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



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	X	WATTAGE INCAND	LED X % OPERATIONS	
SIGNAL (RED)	8		17	0.50	68.0
(YELLOW)	8		25	0.25	50.0
(GREEN)	8		15	0.25	30.0
ARROW	8		12	0.10	9.6
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100.00
ENERGY COSTS TO:				TOTAL =	307.6

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETRROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
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

TS-21355

FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USERNAME$

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761
630.705.0110 voice, 630.839.2566 fax
www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED - JNP		REVISED -
DRAWN - JNP		REVISED -
CHECKED - TVN		REVISED -
DATE - $DATE$		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

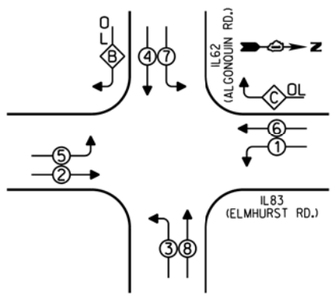
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
ALGONQUIN ROAD AT BRIARWOOD DRIVE

SCALE: · | SHEET NO. OF SHEETS | STA. · | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	60
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

$FILE$

CONTROLLER SEQUENCE

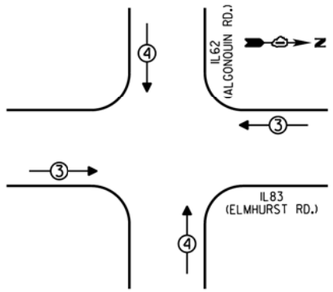


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

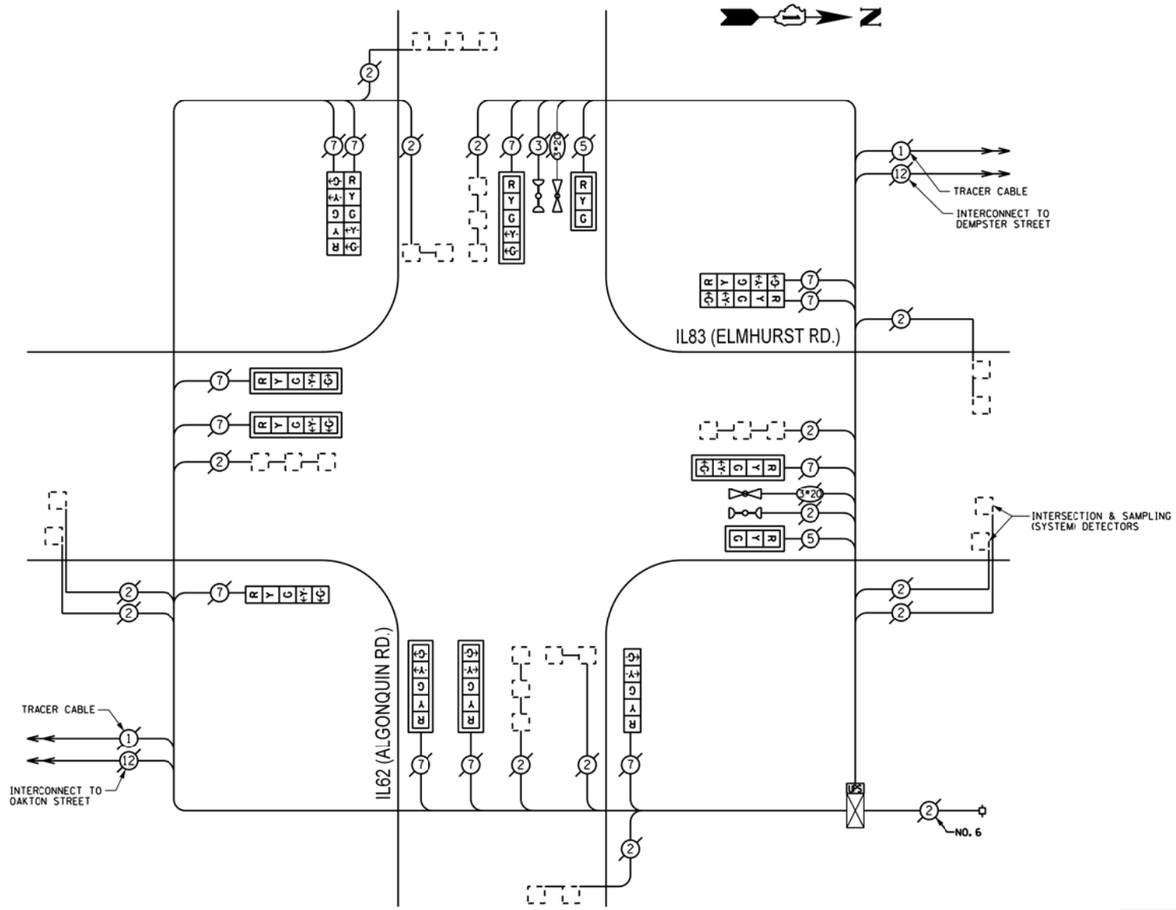
PHASE DESIGNATION DIAGRAM

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

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

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	14		17	0.50	119.00
(YELLOW)	14		25	0.25	87.50
(GREEN)	14		15	0.25	52.50
ARROW	24		12	0.10	28.80
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	387.70

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
6	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT
1	EACH	MODIFY EXISTING CONTROLLER CABINET

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

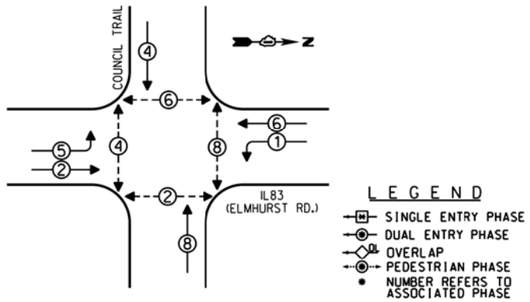
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL83 (ELMHURST ROAD) AT IL62 (ALGONQUIN ROAD)

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

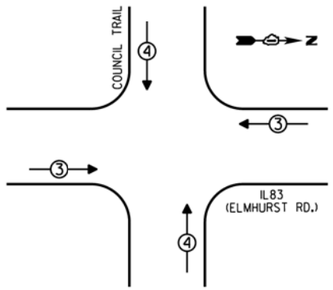
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	61
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SEQUENCE

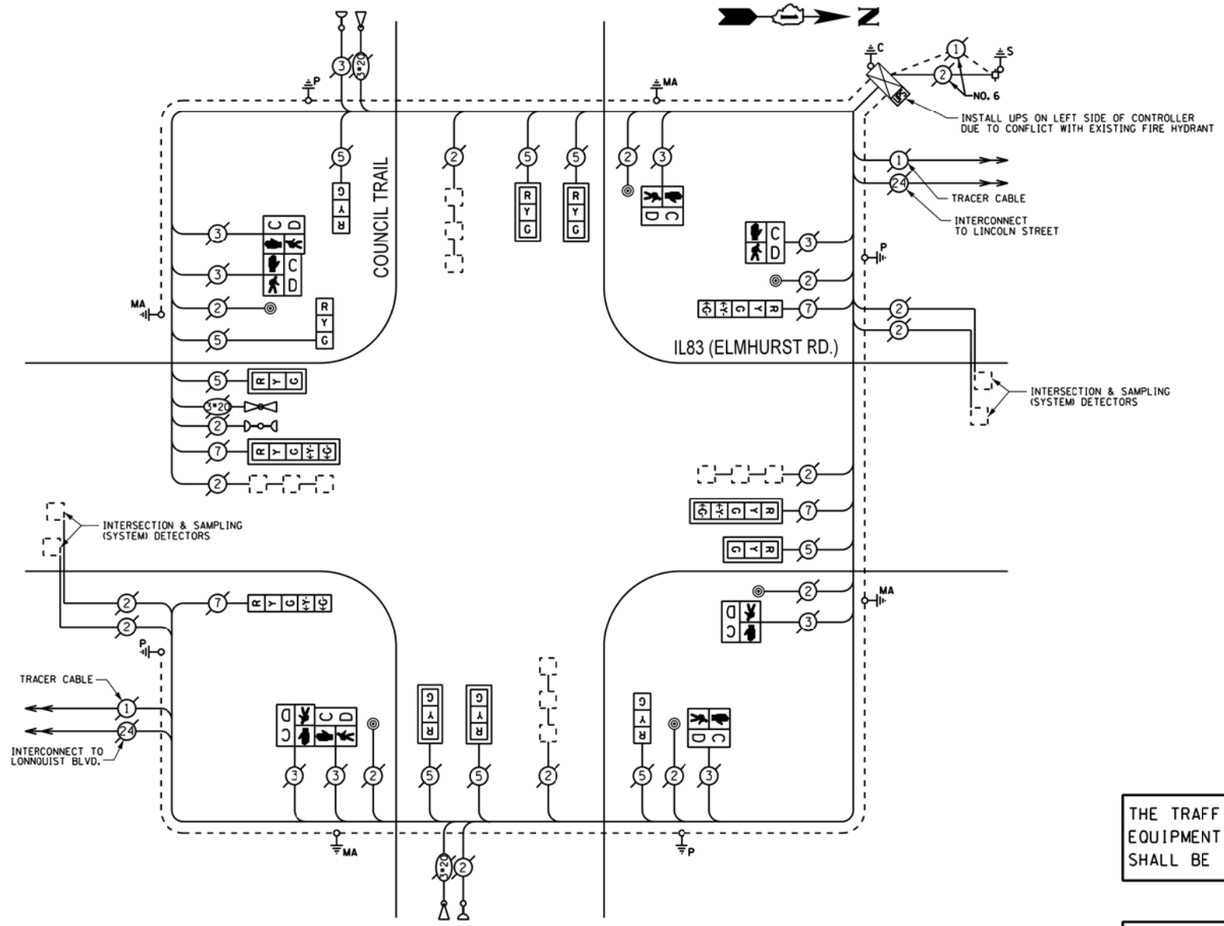


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

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

THE TRAFFIC SIGNAL HOUSINGS SHALL BE BLACK TO MATCH EXISTING EQUIPMENT.

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	13		17	0.50	110.50
(YELLOW)	13		25	0.25	81.25
(GREEN)	13		15	0.25	48.75
ARROW	8		12	0.10	9.60
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	550.10

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
6	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

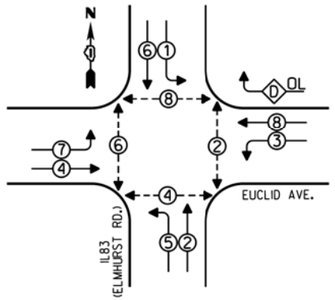
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL83 (ELMHURST ROAD) AT COUNCIL TRAIL

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	62
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

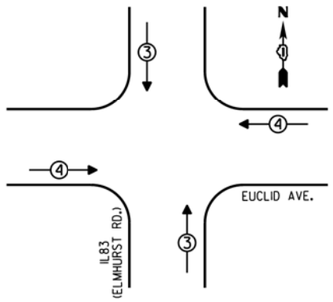


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

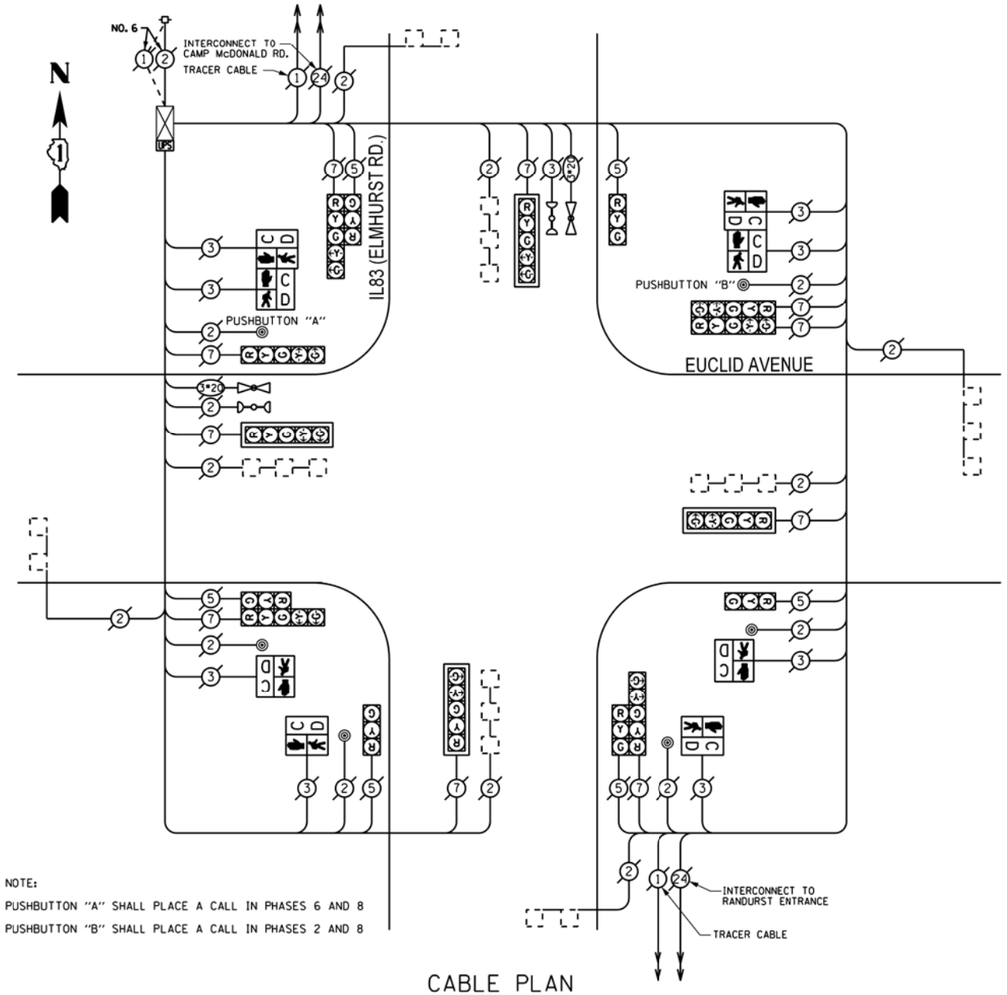
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



NOTE:

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

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

CABLE PLAN

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

THE TRAFFIC SIGNAL HOUSINGS SHALL BE BLACK TO MATCH EXISTING EQUIPMENT.

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	20		12	0.10	24.00
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	620.00

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
6	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
6	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

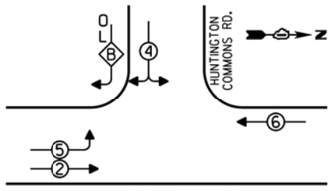
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL83 (ELMHURST ROAD) AT EUCLID AVENUE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	63
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE



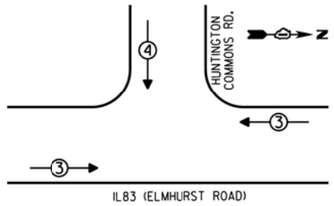
LEGEND

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OL OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

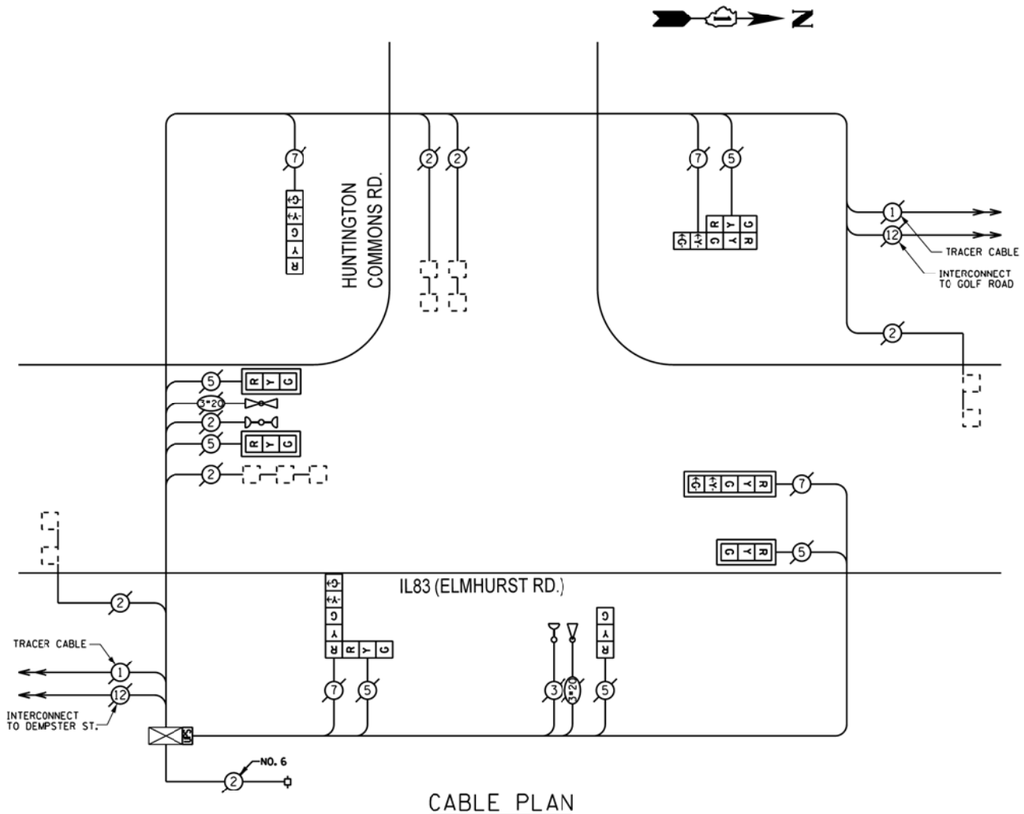
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	8		12	0.10	9.60
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	294.60

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT. ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
3	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, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

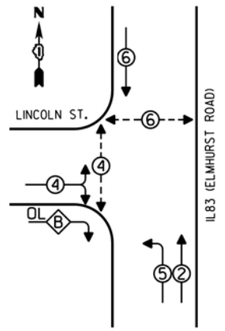
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
IL83 (ELMHURST ROAD) AT HUNTINGTON COMMONS ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	64
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

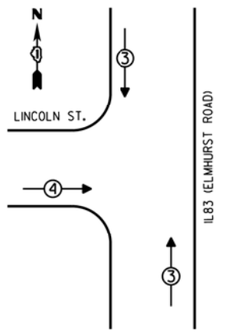


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OL OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

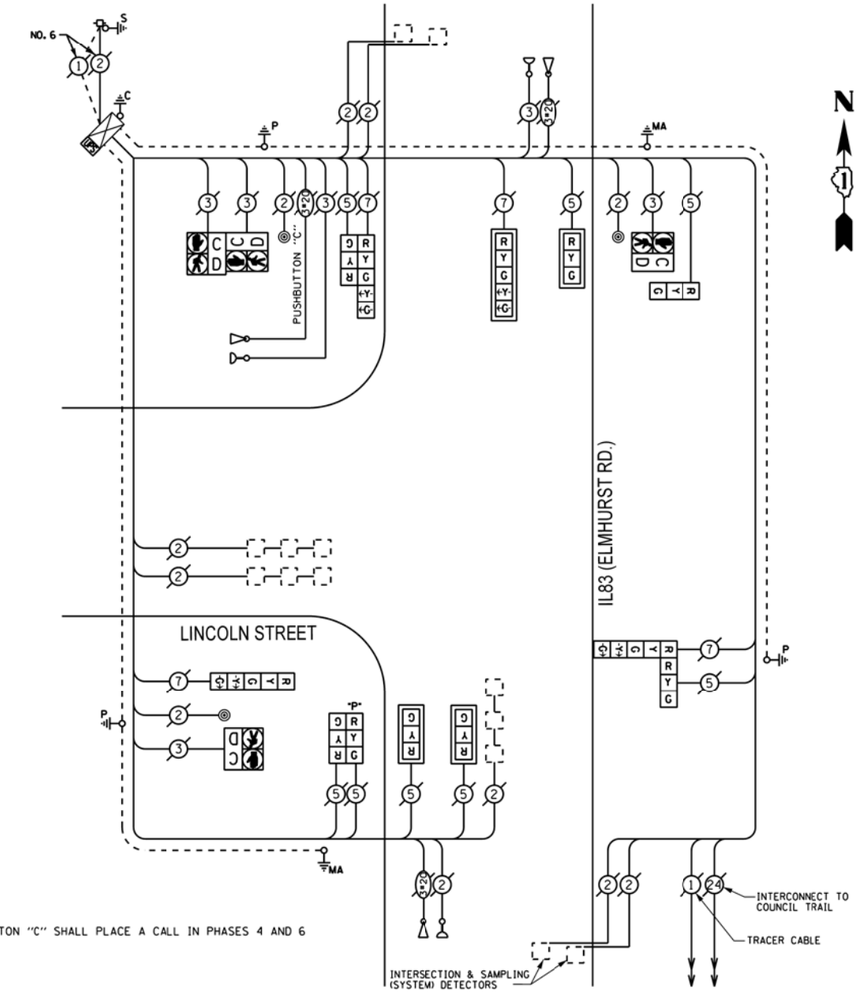
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



NOTE:

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

CABLE PLAN

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

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	8		12	0.10	9.60
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	431.60

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
3	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
2	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
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

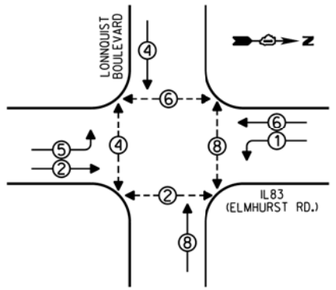
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL83 (ELMHURST ROAD) AT LINCOLN STREET

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

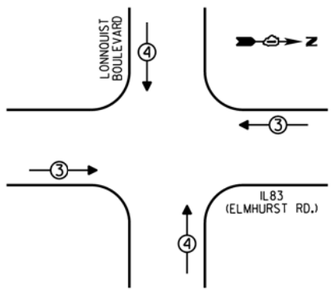
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	65
		CONTRACT NO. 60W23		
	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE

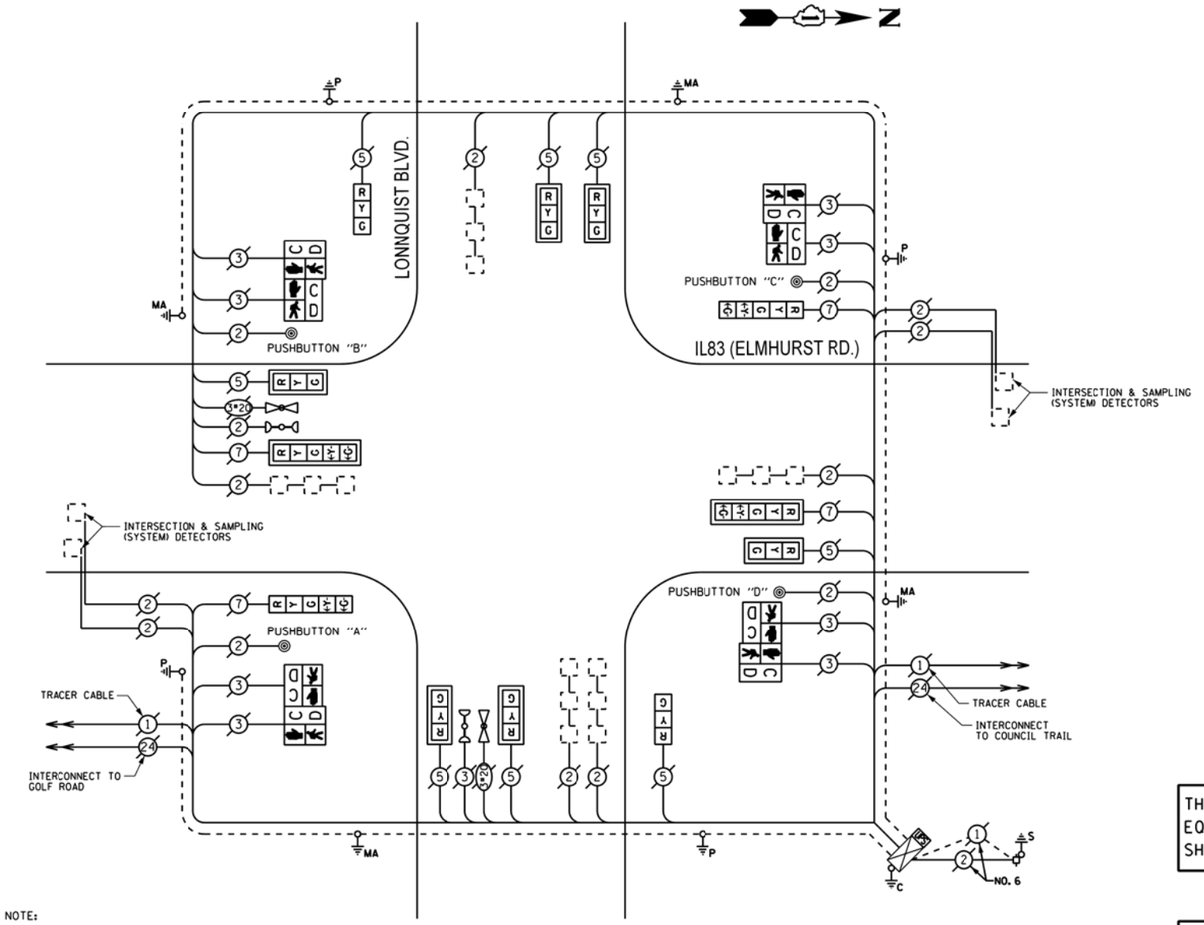


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

NOTE:

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

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

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

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

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

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL HOUSINGS SHALL BE BLACK TO MATCH EXISTING EQUIPMENT.

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	8		12	0.10	9.60
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	531.60

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

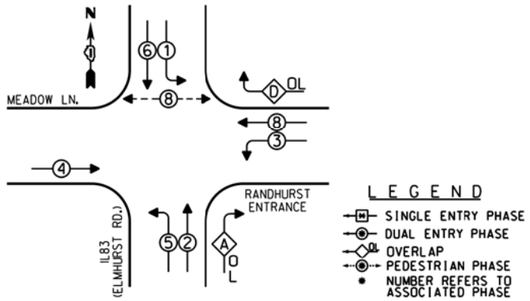
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL83 (ELMHURST ROAD) AT LONNQUIST BOULEVARD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	66
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

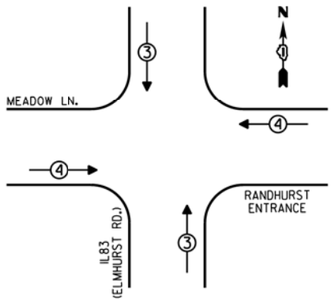
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE

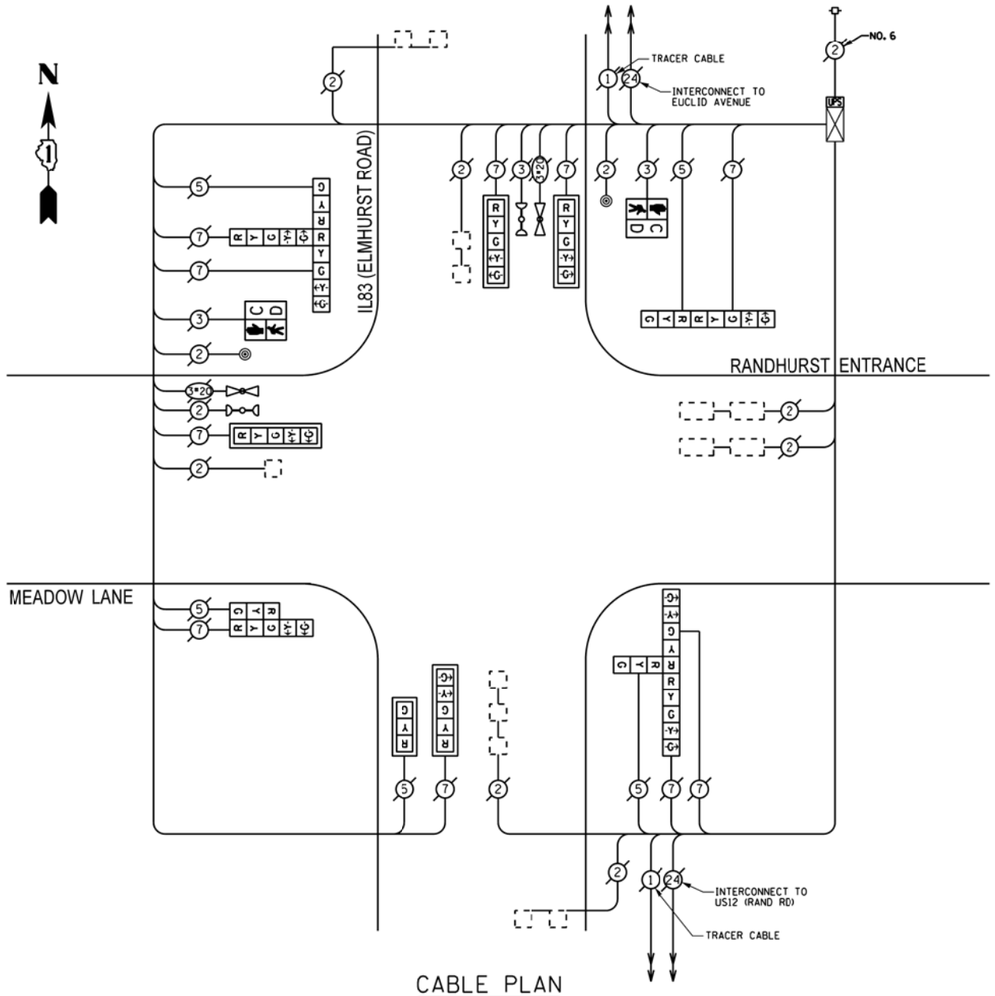


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓↑	←→

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE x INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	15		17	0.50	127.50
(YELLOW)	15		25	0.25	93.75
(GREEN)	15		15	0.25	56.25
ARROW	20		12	0.10	24.00
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	451.50

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED



CABLE PLAN

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

THE TRAFFIC SIGNAL HOUSINGS SHALL BE BLACK TO MATCH EXISTING EQUIPMENT.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
2	EACH	PEDESTRIAN SIGNAL HEAD, I-FACE
2	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, I-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	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

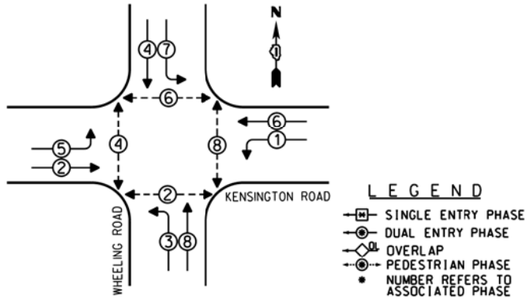
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL83 (ELMHURST ROAD) AT RANDHURST SHOPPING CENTER

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

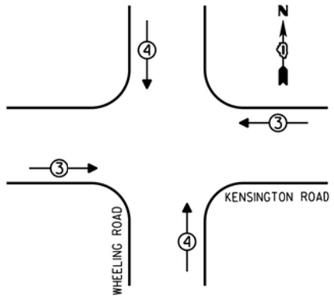
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	67
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

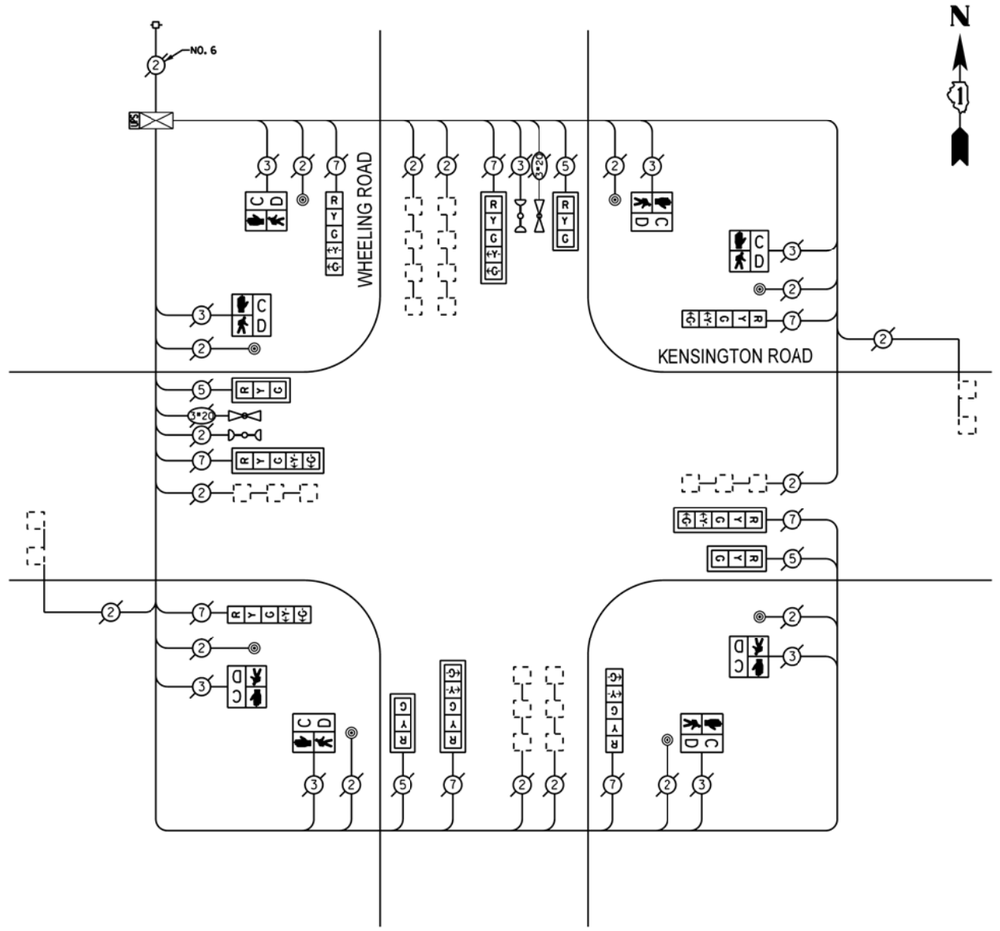


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇆	⇅



CABLE PLAN

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

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

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	541.20

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
8	EACH	PEDESTRIAN SIGNAL HEAD, I-FACE
8	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

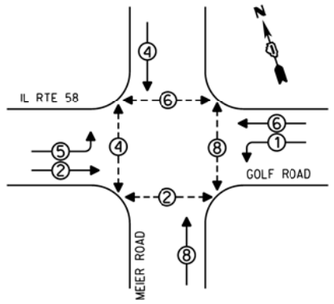
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, KENSINGTON ROAD AT WHEELING ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	68
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

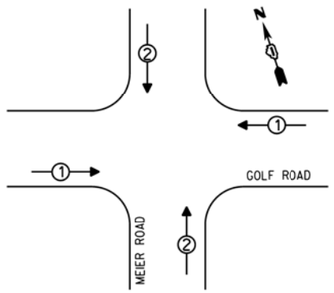


LEGEND
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

DUAL ENTRY = ALL LEGS
PROTECTED/PERMITTED LEFT TURN PHASING

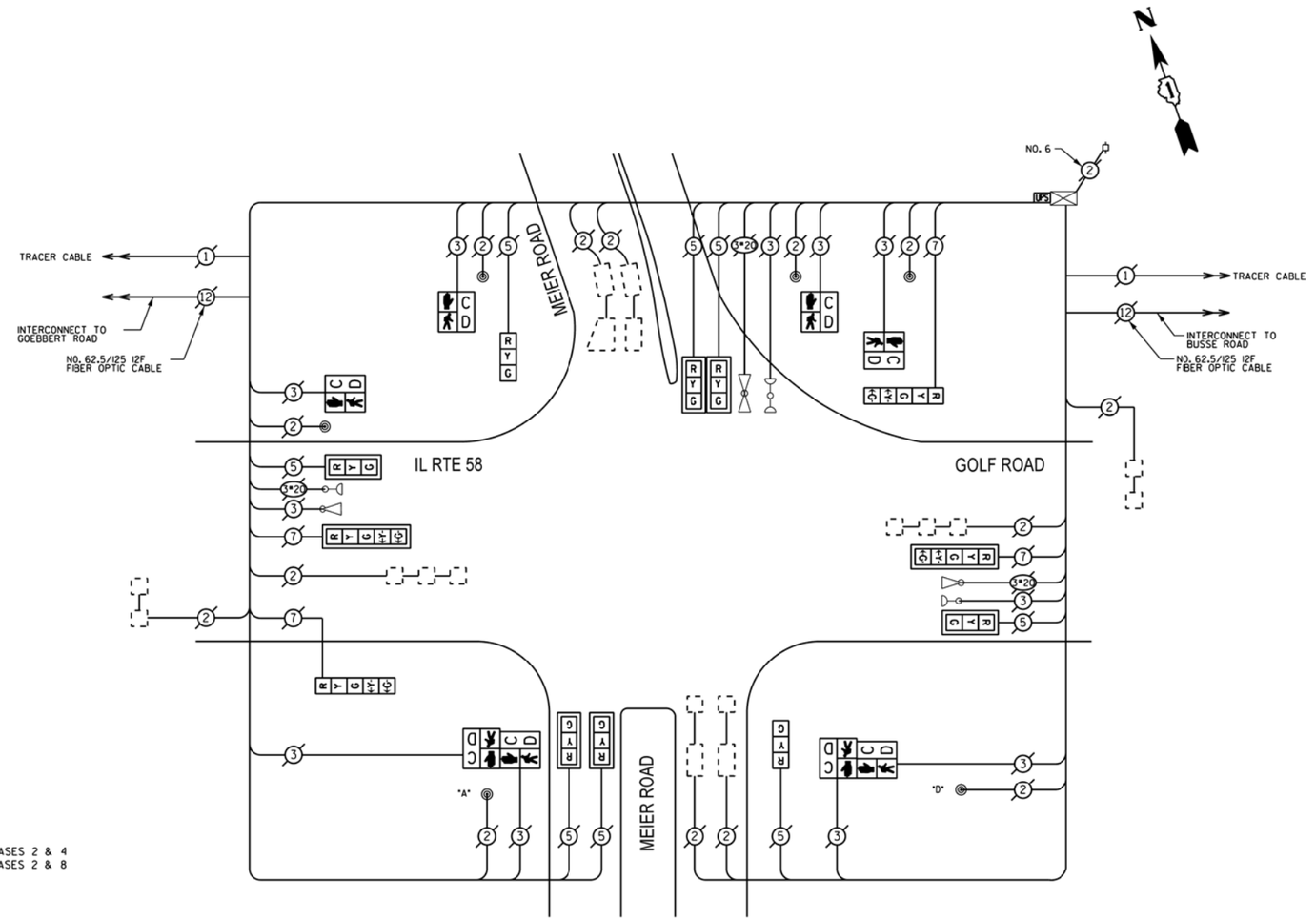
EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	← →	↓ ↑

NOTE:

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



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED X	% OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.0
(YELLOW)	12		25	0.25	75.0
(GREEN)	12		15	0.25	45.0
ARROW	8		12	0.10	9.6
PED. SIGNAL	8		25	1.00	200.0
CONTROLLER	1		100	1.00	100.0
ENERGY COSTS TO:				TOTAL =	531.6

VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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

SCHEDULE OF QUANTITIES

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

TS-2875

FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USERNAME$

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761
630.705.0110 voice, 630.839.2566 fax
www.mps-il.com
MILLENNIA PROFESSIONAL SERVICES

DESIGNED	JNP	REVISED	-
DRAWN	JNP	REVISED	-
CHECKED	TVN	REVISED	-
DATE	$DATE$	REVISED	-

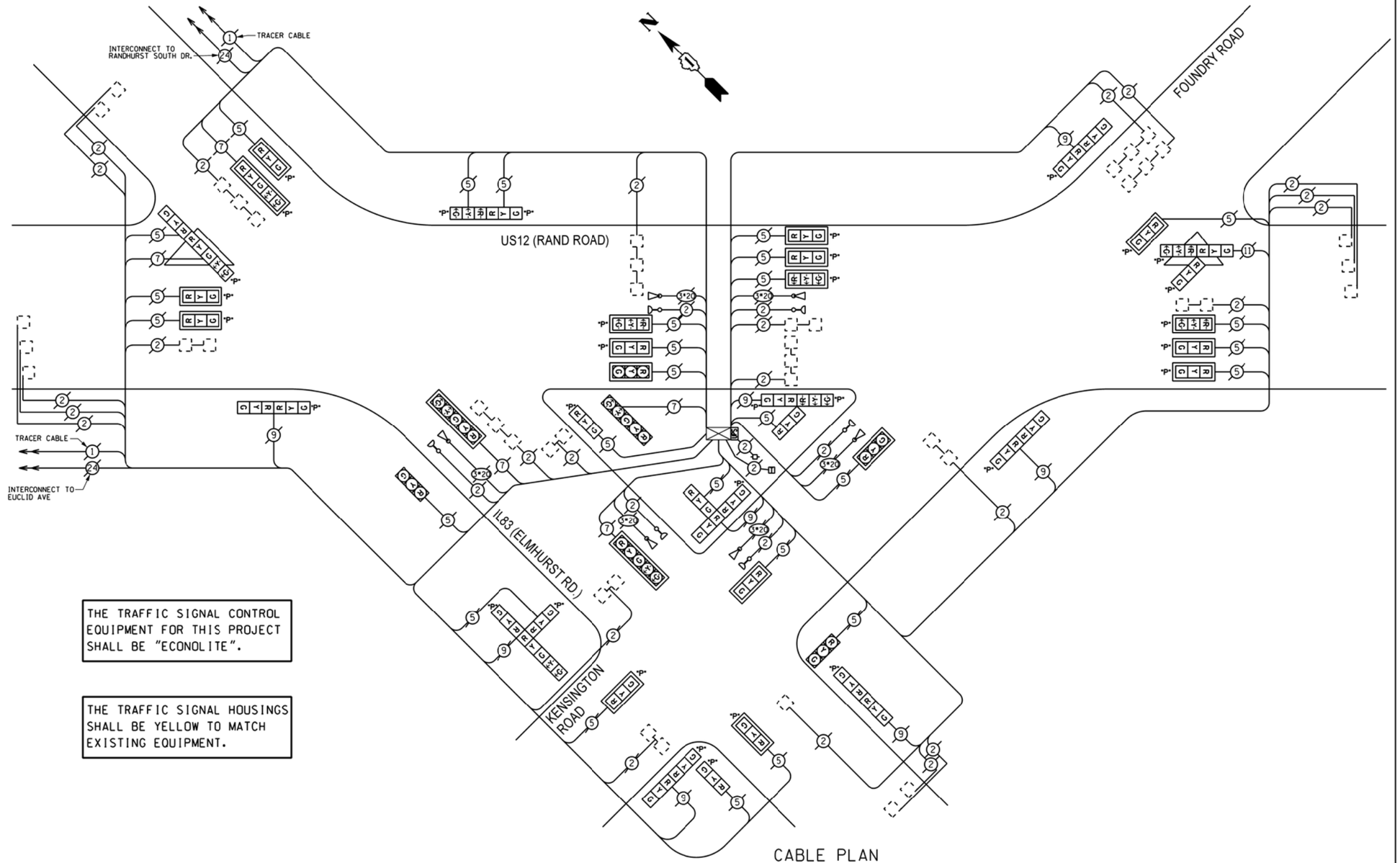
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: · | SHEET NO. OF SHEETS | STA. · | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	69
		CONTRACT NO. 60W23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

$FILE$



CABLE PLAN

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

THE TRAFFIC SIGNAL HOUSINGS SHALL BE YELLOW TO MATCH EXISTING EQUIPMENT.

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	51		17	0.50	433.50
(YELLOW)	51		25	0.25	318.75
(GREEN)	51		15	0.25	191.25
ARROW	12		12	0.10	14.40
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	1057.90

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT. ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
17	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
7	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN SIGNAL HEAD, 3-FACE

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
14	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
5	EACH	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
1	EACH	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
1	EACH	COMBINATION SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 2-3 SECTION, BRACKET MOUNTED
2	EACH	COMBINATION SIGNAL HEAD, LED, 3- FACE, 2-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
1	EACH	COMBINATION SIGNAL HEAD, LED, 3- FACE, 2-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED
15	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

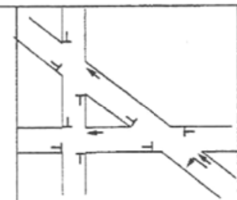
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

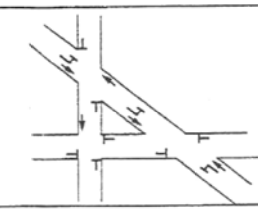
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL83 (ELMHURST ROAD) AT KENSINGTON ROAD/FOUNDRY ROAD

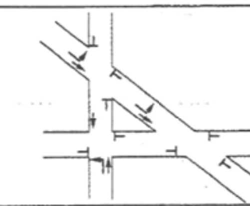
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	70
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

SEQUENCE OF OPERATION

MOVEMENT						
						
PHASE		1				
INTERVAL		1	2A	2B	2C	2D
CHANGE TO			2			
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR AND FAR RIGHT SIGNALS	S/B	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. ALL SIGNALS	S/B	R	R	R	R	R
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	E/B	R	R	R	R	R
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	E/B	R	R	R	R	R
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	W/B	R	R	R	R	R
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	W/B	G	G	G	Y	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	NW/B	G	G	G	G	G
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	NW/B	←G	←Y	R	R	R
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	NW/B	G	G	G	G	G
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	R	R	R	R
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) LEFT TURN SIGNALS	SE/B	R	R	R	R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	R	R	R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	SE/B	R	R	R	R	R

MOVEMENT																						
																						
PHASE		2																				
INTERVAL		3	4A	4B	4C	4D	5A	5B	5C	5D	6A	6B	6C	6D	7A	7B	7C	7D	8A	8B	8C	8D
CHANGE TO			5				3+7		3+8		4+7		4+8		6				1			
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR AND FAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. ALL SIGNALS	S/B	G	G	G	G	G	G	G	Y	R	G	G	G	G	G	G	Y	R	G	G	Y	R
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	NW/B	G	Y	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	NW/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	NW/B	G	G	G	Y	R	G	G	Y	R	G	G	Y	R	G	G	G	G	G	G	G	G
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	G	G	G	G	G	Y	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) LEFT TURN SIGNALS	SE/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	Y	R	G	G	Y	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	SE/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R

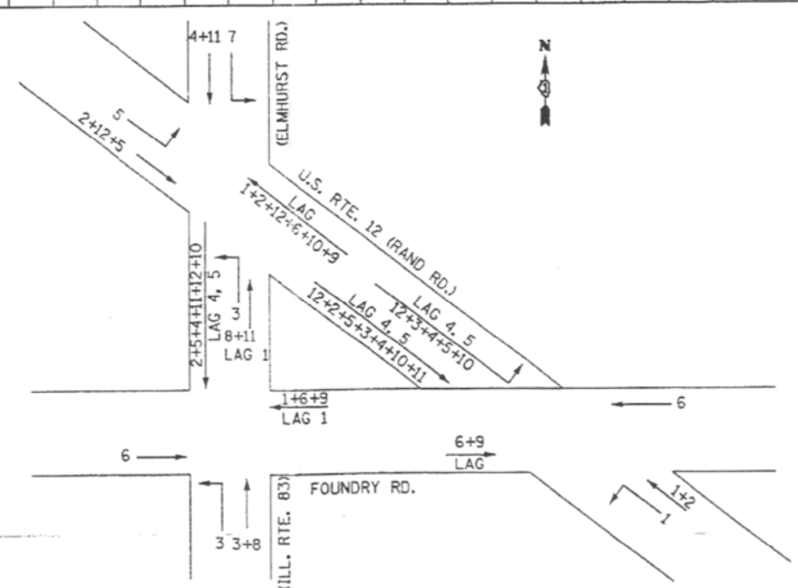
MOVEMENT																				
																				
PHASE		5																		
INTERVAL		9	10A	10B	10C	10D	11A	11B	11C	11D	12A	12B	12C	12D	13A	13B	14A	14B	14C	14D
CHANGE TO			1				2				3+7		3+8		4+7	4+8	6			
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR AND FAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. ALL SIGNALS	S/B	G	G	G	Y	R	G	G	G	G	G	G	Y	R	G	G	G	G	Y	R
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	NW/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	NW/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	NW/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	G	Y	R	R	R	G	G	G	G	Y	R	R	R	Y	R	Y	R	R	R
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) LEFT TURN SIGNALS	SE/B	←G	←Y	R	R	R	←Y	R	R	R	←Y	R	R	R	←Y	R	←Y	R	R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	G	G	G	Y	R	G	G	G	G	G	G	G	G	G	G	G	G	Y	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	SE/B	←G	←G	←G	←Y	R	←G	←G	←Y	R	←G	←G	←G	←G	←G	←G	←G	←G	←Y	R

NOTES:

1. PHASE 3 VEHICLE DETECTOR SHALL PLACE ONE VEHICLE CALL INTO PHASE 8
2. PHASE 8 MUST BE ON LOCKING DETECTION
3. PHASE 2 MUST BE ON RECALL
4. ANTIBACKUP & DUAL ENTRY SHALL BE TURNED ON FOR PHASES 3, 4, 7, & 8
5. TIMED OVERLAP PHASES
   Ø 9 - EB WB Ø 6 (FOUNDRY)
   Ø 10 - NB SB Ø 2, Ø 5 (US 12)
   Ø 11 - NB SB Ø 4, Ø 8 (IL 83)
6. RING STRUCTURE AND PHASE ASSIGNMENT DIAGRAM

1	2	12	10	5	3	4	11	6	9
					7	8			

EVP 1 = Ø 1
EVP 2 = Ø 5
EVP 3 = Ø 3+8
EVP 4 = Ø 4+7
EVP 5 = Ø 6

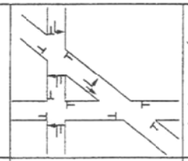
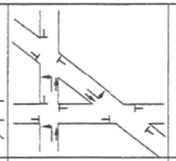
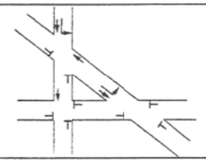
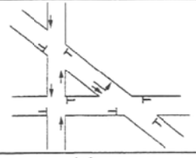
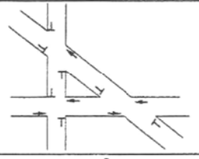


9 CALL = Ø 8 ON
10 CALL = 1, 3, 4, 7, 8, 6 CHECK
11 CALL = Ø 8 ON
12 CALL = Ø 5 CHECK
Ø 12 ON OMITS Ø 10
Ø 10 ON OMITS Ø 5
Ø 3 V.D. CALL Ø 8 Ø 4
Ø 4, Ø 8 ON LOCKING DETECTOR
Ø 8, 9, 10, 11, 12 MUST BE "NON LOCKING"
Ø 4, Ø 8 "DUAL ENTRY"
Ø 2 ON RECALL

INFORMATION ONLY

FILE NAME = $FILEL$ $MODELNAME$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SEQUENCE OF OPERATION, IL83 (ELMHURST ROAD) AT KENSINGTON ROAD/FOUNDRY ROAD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			VAR	2013-005-I	COOK	85 / 71
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -					CONTRACT NO. 60W23	
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: NONE SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		

SEQUENCE OF OPERATION

MOVEMENT	N						FLASH
PHASE			3+8	4+7	4+8	6	
INTERVAL		15 16 17 18A 18B	19 20	21 22A 22B 22C 22D 23A 23B 23C 23D 24	25 26A 26B 26C 26D 27A 27B 27C 27D	28 29A 29B 29C 29D 30A 30B 30C 30D	
CHANGE TO		/ 3+8 4+8 4+7	/ 4+8	/ 1, 6 2 4+8	/ 1, 6 2	/ 1 2	
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT SIGNALS	N/B	G G G Y R	G G	R R R R R R R R R R	G Y R R R Y R R R	R R R R R R R R R	R
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. MAST ARM AND FAR LEFT SIGNALS	N/B	G→G G→G G→Y Y R	G→G G→Y	R R R R R R R R R R	G Y R R R Y R R R	R R R R R R R R R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR AND FAR RIGHT SIGNALS	N/B	R R R R R	G G	R R R R R R R R R R	G G G Y R G G Y R	R R R R R R R R R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM AND FAR LEFT SIGNALS	N/B	R→G R→G R→Y R→Y R	G→G G→Y	R R R R R R R R R R	G G G Y R G G Y R	R R R R R R R R R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR AND FAR RIGHT SIGNALS	S/B	R R R R R	R R	G Y R R R Y R R R G	G G G Y R G G Y R	R R R R R R R R R	R
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM AND FAR LEFT SIGNALS	S/B	R→G R→Y R→Y R→G R→G	R R	G→G Y R R R Y R R R G→Y	G G G Y R G G Y R	R R R R R R R R R	R
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. ALL SIGNALS	S/B	R R R R R	R R	G G G Y R G G G G G	G G G Y R G G G G	R R R R R R R R R	R
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	E/B	R R R R R	R R	R R R R R R R R R R	R R R R R R R R R	G Y R R R Y R R R	R
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	E/B	R R R R R	R R	R R R R R R R R R R	R R R R R R R R R	G G G Y R G G Y R	R
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	W/B	R R R R R	R R	R R R R R R R R R R	R R R R R R R R R	G Y R R R Y R R R	R
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	W/B	R R R R R	R R	R R R R R R R R R R	R R R R R R R R R	G G G G G G G Y R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	NW/B	R R R R R	R R	R R R R R R R R R R	R R R R R R R R R	R R R R R R R R R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	NW/B	R R R R R	R R	R R R R R R R R R R	R R R R R R R R R	R R R R R R R R R	R
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	NW/B	R R R R R	R R	R R R R R R R R R R	R R R R R R R R R	G G G G G G G G R	R
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R R R R R	R R	R R R R R R R R R R	R R R R R R R R R	R R R R R R R R R	R
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) LEFT TURN SIGNALS	SE/B	R R R R R	R R	R R R R R R R R R R	R R R R R R R R R	R R R R R R R R R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	G G G G G	G G	G G G Y R G G G G G	G G G Y R G G G G	R R R R R R R R R	R
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	SE/B	→G →G →G →G →G	→G →G	→G →G →G →Y R →G →G →G →G	→G →G →G →Y R →G →G →G →Y	R R R R R R R R R	R

INFORMATION ONLY

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
$MODELNAME$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

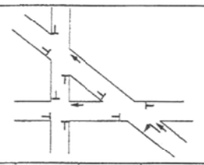
SEQUENCE OF OPERATION,
IL83 (ELMHURST ROAD) AT KENSINGTON ROAD/FOUNDRY ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	72
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

FIRE LANE NO. 1 PHASE 1 — EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

MOVEMENT (N)

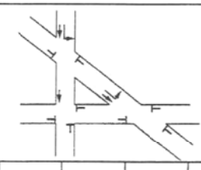


CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	3		9				15		19		21				25				28		FIRE LANE NO. 1	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	2	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2	1C	2	1E	1F	1G	2	1J	2	1L	2	1N	1P	1Q	2	1S	1T	1U	2	1W	2		
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR & FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM & FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R→Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR & FAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM & FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R→Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. ALL SIGNALS	S/B	R	Y	R	G	G	Y	R	R	R	R	R	G	G	Y	R	G	G	Y	R	R	R	R	◇
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	W/B	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	NW/B	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	NW/B	→G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	→G		◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	NW/B	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) LEFT TURN SIGNALS	SE/B	R	R	R	→Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	Y	R	G	G	Y	R	Y	R	Y	R	G	G	Y	R	G	G	Y	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	SE/B	R	R	R	→G	→G	→Y	R	→Y	R	→Y	R	→G	→G	→Y	R	→G	→G	→Y	R	R	R	R	◇

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

FIRE LANE NO. 2 PHASE 5 — EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

MOVEMENT (N)



CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1			3	9	15		19		21		25		28		FIRE LANE NO. 2	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	2	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	1C	1D	2	1F	2	2	1J	2	1L	2	1N	2	1Q	2	1S	2		
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR & FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM & FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R→Y	R	Y	R	R	R	Y	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR & FAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM & FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R→Y	R	R	R	Y	R	Y	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. ALL SIGNALS	S/B	R	R	R	R	G	G	G	R	R	R	R	G	G	G	G	R	R	G	◇
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	W/B	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	NW/B	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	NW/B	→Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	NW/B	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	R	R	R	G	G	G	R	R	R	R	R	R	R	R	R	R	G	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) LEFT TURN SIGNALS	SE/B	R	R	R	R	R	R	→G	R	R	R	R	R	R	R	R	R	R	→G	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	R	R	R	G	G	G	G	G	G	G	G	G	G	G	R	R	G	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	SE/B	R	R	R	R	R	R	→G	→G	→G	→G	→G	→G	→G	→G	→G	R	R	→G	◇

INFORMATION ONLY

TS-19

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

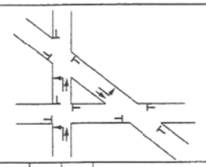
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION, IL83 (ELMHURST ROAD) AT KENSINGTON ROAD/FOUNDRY ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	73
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

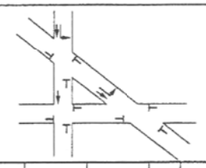
FIRE LANE NO. 3 PHASE 3+8 — EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION



MOVEMENT		1				3		9				15	19	21					25				28		FIRE LANE NO. 3	CLEAR TO NORMAL SEQUENCE
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER																										
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	2		
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	1C	1D	2	1F	2	1H	1J	1K	2	2	2	1P	1Q	1R	2	1T	1U	1V	2	1Y	2			
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	G	G	G	G	R	R	G		◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	G→G	G→G	R	R	R	R	G	G	G	G	R	R	G→G		◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR & FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	G	R	R	R	R	G	G	G	G	R	R	G		◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM & FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R→G	G→G	R	R	R	R	G	G	G	G	R	R	G→G		◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR & FAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R		◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM & FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R→Y	R	Y	R	R	R	Y	R	R	R	R	R	R		◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. ALL SIGNALS	S/B	R	R	R	R	Y	R	G	G	Y	R	R	R	G	G	Y	R	G	G	Y	R	R	R	R		◇
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R		◇
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R		◇
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R		◇
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	W/B	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	G	R		◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	NW/B	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	NW/B	←Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	NW/B	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G		◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) LEFT TURN SIGNALS	SE/B	R	R	R	R	R	R	←Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	R	R	R	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	R	R	G		◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	SE/B	R	R	R	R	R	R	←G	←G	←G	←G	←G	←G	←G	←G	←G	←G	←G	←G	←G	←G	R	R	←G		◇

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

FIRE LANE NO. 4 PHASE 4+7 — EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION



MOVEMENT		1				3		9		15		19		21	25		26		FIRE LANE NO. 4	CLEAR TO NORMAL SEQUENCE
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER																				
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	2	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	1C	1D	2	1F	2	1H	2	1K	2	1M	2	2	1Q	2	1S	2		
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	Y	R	R	Y	R	R	Y	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	Y	R	Y	R	R	Y	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR & FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	Y	R	R	Y	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM & FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R→Y	R	Y	R	R	Y	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR & FAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	R	R	G	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM & FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R→G	R→G	R	R	G→G	R	R	R	R	G→G	◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. ALL SIGNALS	S/B	R	R	R	R	G	G	G	G	R	R	R	R	G	G	G	R	R	G	◇
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	W/B	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	NW/B	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	NW/B	←Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	NW/B	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	Y	R	R	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) LEFT TURN SIGNALS	SE/B	R	R	R	R	R	R	←Y	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	R	R	R	G	G	G	G	G	G	G	G	G	G	G	R	R	G	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	SE/B	R	R	R	R	R	R	←G	←G	←G	←G	←G	←G	←G	←G	←G	R	R	←G	◇

INFORMATION ONLY

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED -	REVISED -
$MODELNAME$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

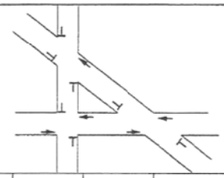
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION, IL83 (ELMHURST ROAD) AT KENSINGTON ROAD/FOUNDRY ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	74
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		

FIRE LANE NO. 5 PHASE 6

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION



MOVEMENT																							FIRE LANE NO. 5	CLEAR TO NORMAL SEQUENCE
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		3		9				15		19		21				25				28		
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	2	◇
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	2	1F	1G	1H	2	1K	2	1M	2	1P	1Q	1R	2	1T	1U	1V	2	2		◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR AND FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Y	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	→Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) NEAR AND FAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT U.S. RTE. 12 (RAND RD.) MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	→Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. ALL SIGNALS	S/B	R	R	Y	R	G	G	Y	R	R	R	R	R	G	G	Y	R	G	G	Y	R	R	R	◇
ILL. RTE. 83 (ELMHURST RD.) AT FOUNDRY RD. ALL SIGNALS	S/B	R	R	Y	R	G	G	Y	R	R	R	R	R	G	G	Y	R	G	G	Y	R	R	R	◇
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	◇
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	◇
FOUNDRY RD. AT U.S. RTE. 12 (RAND RD.) ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	◇
FOUNDRY RD. AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	W/B	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	NW/B	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	NW/B	→Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) ALL SIGNALS	NW/B	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT ILL. RTE. 83 (ELMHURST RD.) LEFT TURN SIGNALS	SE/B	R	R	R	R	→Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. NEAR AND FAR RIGHT AND MID MAST ARM SIGNALS	SE/B	R	R	Y	R	G	G	Y	R	Y	R	Y	R	G	G	Y	R	G	G	Y	R	R	R	◇
U.S. RTE. 12 (RAND RD.) AT FOUNDRY RD. LEFT TURN SIGNALS	SE/B	R	R	R	R	→G	→G	→Y	R	→Y	R	→Y	R	→G	→G	→Y	R	→G	→G	→Y	R	R	R	◇

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

INFORMATION ONLY

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

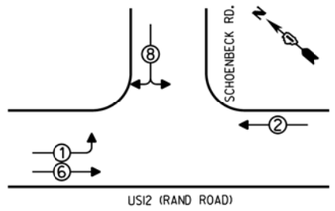
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION, IL83 (ELMHURST ROAD) AT KENSINGTON ROAD/FOUNDRY ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	75
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

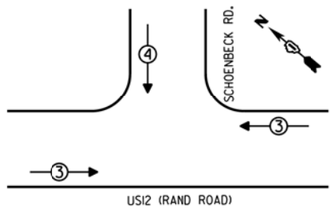
CONTROLLER SEQUENCE



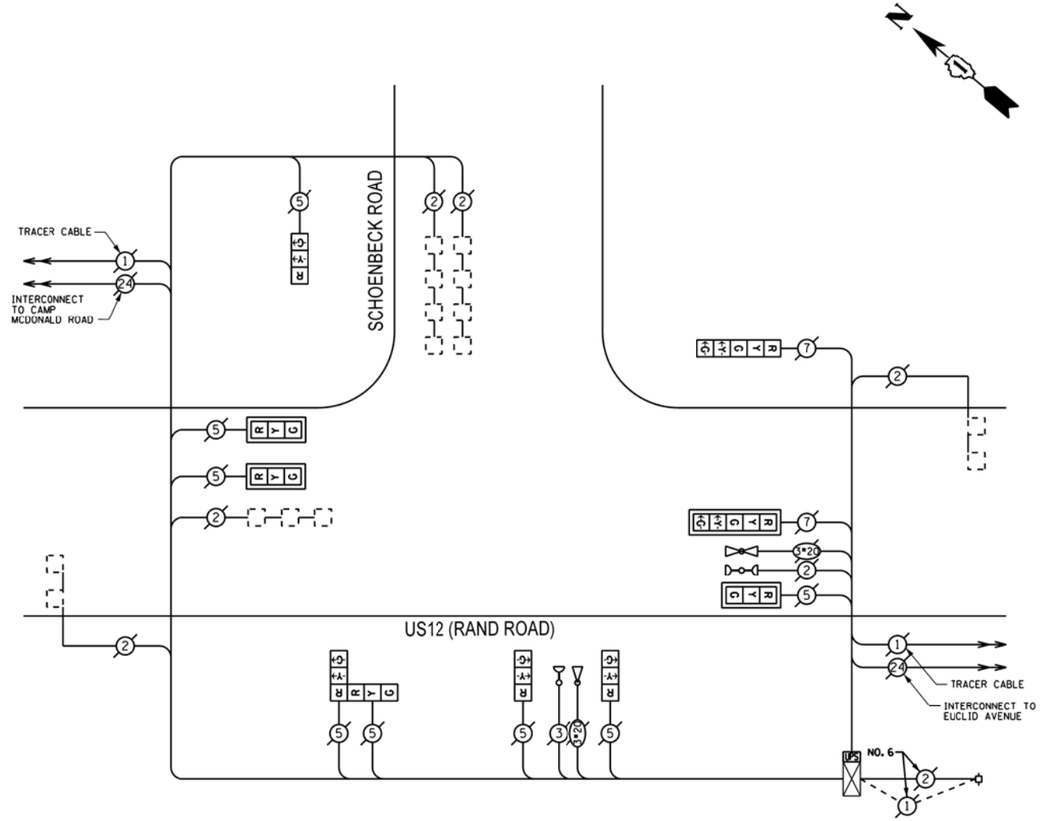
LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

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

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

TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	4		12	0.10	4.80
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	289.80

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

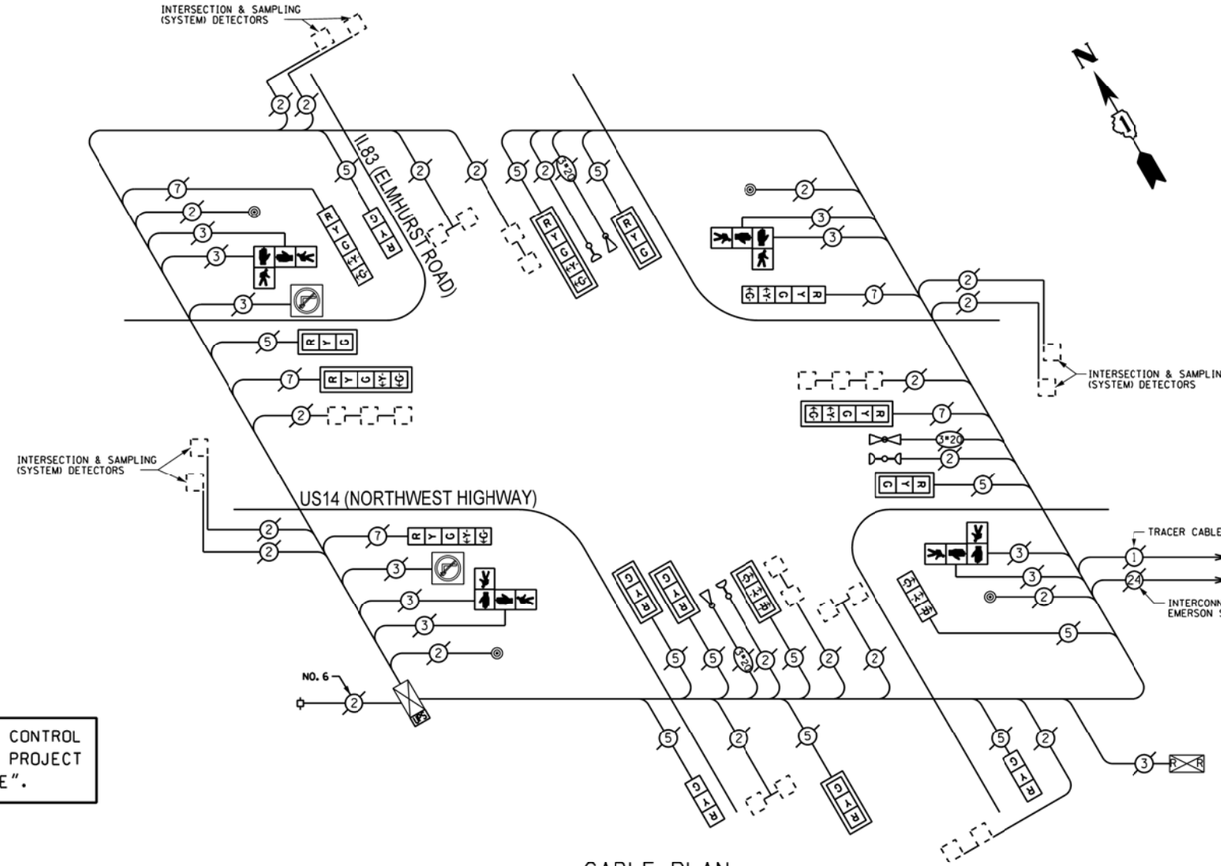
FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
US12 (RAND ROAD) AT SCHOENBECK ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	76
		CONTRACT NO. 60W23		
		ILLINOIS FED. AID PROJECT		



CABLE PLAN

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	17		17	0.50	144.50
(YELLOW)	17		25	0.25	106.25
(GREEN)	17		15	0.25	63.75
ARROW	12		12	0.10	14.40
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	2		25	0.05	2.50
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	631.40

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
4	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

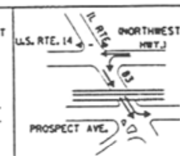
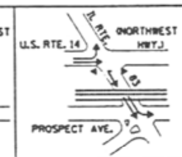
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US14 (NW HIGHWAY) AT IL83 (ELMHURST ROAD)

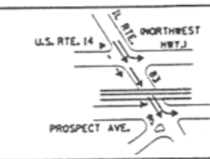
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

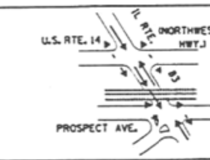
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	77
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

SEQUENCE OF OPERATION (CONTINUED NEXT SHEET)

MOVEMENT										
PHASE	1+5				1+6			2+5		
INTERVAL	1	2	3	4	5	6	7	8	9	10
CHANGE TO	/	1+6	2+5	2+6	θ /	θ /	2+6	θ /	θ /	2+6
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	G	G	G
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B END MAST ARM AND FAR LEFT SIGNALS	R ←G	R ←Y	R ←G	R ←Y	R	R	R	G ←G	G ←G	G ←Y
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	G	G	G	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B END MAST ARM AND FAR LEFT SIGNALS	R ←G	R ←G	R ←Y	R ←Y	G ←G	G ←G	G ←Y	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B END MAST ARM AND FAR LEFT SIGNALS	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) S/B OPTICALLY PROGRAMMED SIGNALS	G	G	G	G	G	G	G	G	G	G
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B END MAST ARM AND FAR LEFT SIGNALS	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) W/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE N/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	G	G	G	G	G	G
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B END MAST ARM AND FAR LEFT SIGNALS	G ←G	G ←G	G ←G	G ←G	G ←G	G ←G	G ←G	G ←G	G ←G	G ←G
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	H	H	•P	••FH	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	•P	••FH	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H

MOVEMENT													
PHASE	2+6												
INTERVAL	11	12	13A	13B	14A	14B	14C	15A	15B	15C	15D	15E	15F
CHANGE TO	/	/	4+7		4+8			3, 12					
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B FAR RIGHT MAST ARM SIGNAL	G	G	Y	R	Y	R	R	Y	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B END MAST ARM AND FAR LEFT SIGNALS	G	G	Y	R	Y	R	R	Y	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B FAR RIGHT MAST ARM SIGNAL	G	G	Y	R	Y	R	R	Y	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B END MAST ARM AND FAR LEFT SIGNALS	G	G	Y	R	Y	R	R	Y	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	G	G	G	G
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	G	G ←G	G ←G	G ←G
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B END MAST ARM AND FAR LEFT SIGNALS	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) S/B OPTICALLY PROGRAMMED SIGNALS	G	G	G	G	G	G	G	G	G	Y	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B END MAST ARM AND FAR LEFT SIGNALS	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) W/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE N/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	G	G	G	G	G	G	G	Y	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B END MAST ARM AND FAR LEFT SIGNALS	G ←G	G ←G	G ←G	G ←G	G ←G	G ←G	G ←Y	G ←G	G ←G	G ←G	G ←G	Y	R
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	•P	••FH	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	•P	••FH	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H

MOVEMENT												
PHASE	4+7											
INTERVAL	16	17	18A	18B	19A	19B	19C	19D	19E	19F	20A	20B
CHANGE TO	θ /	θ /	4+8		3, 12						1+5 1+6 2+5 2+6	
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	G	G	G	G	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	G	G ←G	G ←G	G ←G	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	G	G	G	G	Y	R	R	R	R	R	Y	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B END MAST ARM AND FAR LEFT SIGNALS	←G	←G	←Y	←R	←Y	←R	←R	←R	←R	←R	←Y	←R
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) S/B OPTICALLY PROGRAMMED SIGNALS	G	G	G	G	G	G	Y	R	R	R	G	G
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B END MAST ARM AND FAR LEFT SIGNALS	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) W/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE N/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	G	G	G	G	Y	R	G	G
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B END MAST ARM AND FAR LEFT SIGNALS	G ←G	G ←G	G ←Y	G	G ←G	G ←G	G ←G	G ←G	Y	R	G ←G	G ←G
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H

MOVEMENT												
PHASE	4+8											
INTERVAL	21	22	23A	23B	23C	23D	23E	23F	24A	24B	24C	24D
CHANGE TO	/	/	3, 12						2+5, 2+6 1+5, 1+6			
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	G	G	G	G	G	G	Y	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B END MAST ARM AND FAR LEFT SIGNALS	G	G	G	G	G ←G	G ←G	G ←G	G ←G	G	G	Y	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	G	G	Y	R	R	R	R	R	Y	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B END MAST ARM AND FAR LEFT SIGNALS	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) S/B OPTICALLY PROGRAMMED SIGNALS	G	G	G	G	Y	R	R	R	G	G	G	G
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B END MAST ARM AND FAR LEFT SIGNALS	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) W/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE N/B ALL SIGNALS	G	G	Y	R	R	R	R	R	Y	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	G	G	Y	R	G	G	G	G
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B END MAST ARM AND FAR LEFT SIGNALS	G	G	G	G	G ←G	G ←G	Y	R	G	G	G	G
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H

* TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION

** FLASHING "[hand]" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

θ THIS "[person]" OR FLASHING "[hand]" INTERVAL MAY FINISH TIMIMG IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "[person]" OR FLASHING "[hand]" INTERVALS. "[person]" AND FLASHING "[hand]" TIMINGS TO BE SET ONLY ON PHASES WHERE "[person]" AND FLASHING "[hand]" ARE INDICATED IN THE SEQUENCE OF OPERATION.

PHASE 2+6 SHALL BE PLACED ON REACLL

FILE NAME = $FILEL$ $MODELNAME$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

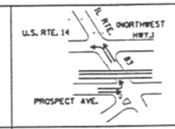
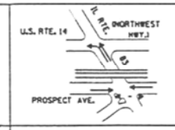
SEQUENCE OF OPERATION,
US14 (NW HIGHWAY) AT IL83 (ELMHURST ROAD)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	78
		CONTRACT NO. 60W23		

ILLINOIS | FED. AID PROJECT

SEQUENCE OF OPERATION (CONTINUED)

MOVEMENT															FLASH
PHASE	3							12							
INTERVAL	25	26A	26B	27A	27B	27C	27D	28	29	30A	30B	30C	30D	
CHANGE TO		12		1+5 2+5 1+6 2+6						1+5, 1+6 2+5, 2+6				
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 FAR RIGHT MAST ARM SIGNAL N/B	G	G	G	G	G	Y	R	G	G	G	G	Y	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS N/B	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	Y	R	G ◄ G	G ◄ G	G ◄ G	G ◄ G	Y	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS S/B	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) OPTICALLY PROGRAMMED SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS E/B	G	G	G	Y	R	R	R	G	G	Y	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) END MAST ARM AND FAR LEFT SIGNALS E/B	◄ G	◄ Y	◄ R	◄ Y	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) ALL SIGNALS W/B	R	R	R	R	R	R	R	G	G	Y	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE ALL SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. FAR RIGHT MAST ARM SIGNAL S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. END MAST ARM AND FAR LEFT SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H	H	DARK
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	•P	••FH	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	

△ 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.

NLT = "NO LEFT TURN" OR 

NRT = "NO RIGHT TURN" OR 

RAILROAD PREEMPTION SEQUENCE OF OPERATION

																PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 5		PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		8		11		16		21		25		28											
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																2		3		4						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1K	2	1M	2	1P	2	1R	2	1T	2	1V	2	1X	2	3	4	5		
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL E/B	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	△
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS E/B	R ◄ Y	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	△
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL W/B	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	△
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS W/B	R ◄ Y	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	△
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 FAR RIGHT MAST ARM SIGNAL N/B	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	R	R	R	R	G	G	G	Y	R	R	△
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	G	G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	R	R	R	R	G	G	G ◄ G	Y	R	R	△
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS S/B	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	△
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS S/B	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ Y	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ Y	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	△
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) OPTICALLY PROGRAMMED SIGNALS S/B	Y	R	Y	R	Y	R	Y	R	Y	R	Y	R	R	R	R	R	Y	R	Y	R	Y	R	R	R	R	R	△
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	G	△
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) END MAST ARM AND FAR LEFT SIGNALS E/B	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ Y	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	△
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) ALL SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	G	△
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE ALL SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	△
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. FAR RIGHT MAST ARM SIGNAL S/B	G	G	G	G	G	G	G	G	G	G	G	G	R	R	R	R	G	G	G	G	G	G	G	Y	R	R	△
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. END MAST ARM AND FAR LEFT SIGNALS S/B	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G	G	R	R	R	R	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G	G	G ◄ G	Y	R	R	△
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS AT U.S. 14 / IL. RTE. 83	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	△
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS AT PROSPECT AVE. / IL RTE. 83	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	△
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS AT PROSPECT AVE. / IL. RTE. 83	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	△
																										HOLD	

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SEQUENCE OF OPERATION, US14 (NW HIGHWAY) AT IL83 (ELMHURST ROAD)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			VAR	2013-005-I	COOK	85	79
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -					CONTRACT NO. 60W23		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: NONE SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION (CONTINUED NEXT SHEET)

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	1		5		5			5				8			8				8				11				11					16			16			
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK	1LL	1MM
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2 OR 3	1C	4	1E	2	1G	1H	3	1K	1L	1M	4	1P	2	1R	1S	3	1U	1V	1W	4	2	1Z	1AA	3	1CC	1DD	1EE	4	1GG	1HH	2	3	1LL	1MM	4
U.S. RTE. 14 AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	Y	R	R	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS	E/B	R ◄Y	R ◄Y	R	R	R	R	R	R	R	R	R	R	G ◄G	G ◄Y	G ◄G	Y	R	G ◄G	Y	R	R	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL	W/B	R	R	R	G	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS	W/B	R ◄Y	R ◄Y	R	G ◄G	G ◄Y	G ◄G	Y	R	G ◄G	Y	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 AT U.S. RTE. 14 FAR RIGHT MAST ARM SIGNAL	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G
ILL. RTE. 83 AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS	S/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄Y	◄R	◄G	◄G	◄Y	◄R
ILL. RTE. 83 (NORTH OF TRACKS) OPTICALLY PROGRAMMED SIGNALS	S/B	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) END MAST ARM AND FAR LEFT SIGNALS	E/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
PROSPECT AVE. AT ILL. RTE. 83 ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 AT PROSPECT AVENUE ALL SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 AT PROSPECT AVE. FAR RIGHT MAST ARM SIGNAL	S/B	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
ILL. RTE. 83 AT PROSPECT AVE. END MAST ARM AND FAR LEFT SIGNALS	S/B	G ◄G	G ◄G	G ◄Y	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄Y	G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄Y	G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄Y	G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄Y	C
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14		H	H	H	FH	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	FH	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14		H	H	H	H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	FH	H	H	H	FH	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	FH	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	FH	H	H

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EMERGENCY VEHICLE PREEMPTION SEQUENCE,
US14 (NW HIGHWAY) AT IL83 (ELMHURST ROAD)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	80
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		21					21					21	25				25		28					28			PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1NN	1PP	1QQ	1RR	1SS	1TT	1UU	1VV	1WW	1XX	1YY	1ZZ	1AAA	1BBB	1CCC	1DDD	1EEE	1FFF	1GGG	1HHH	1JJJ	1KKK	1LLL	1MMM	1NNN	2	3	4	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1PP	1QQ	1RR	1SS	2	1UU	1VV	1WW	1XX	3	4	1AAA	1BBB	1CCC	2 OR 3	1EEE	4	1GGG	1HHH	1JJJ	1KKK	2 OR 3	1MMM	1NNN	4				
U.S. RTE. 14 AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
U.S. RTE. 14 AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
U.S. RTE. 14 AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
U.S. RTE. 14 AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
ILL. RTE. 83 AT U.S. RTE. 14 FAR RIGHT MAST ARM SIGNAL	N/B	G	G	G	Y	R	G	G	G	Y	R	G	G	G	Y	R	G	G	G	G	G	Y	R	G	G	G	R	R	G	◊
ILL. RTE. 83 AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS	N/B	G	G	G	Y	R	G	G	G	Y	R	G	G◄G	G◄G	Y	R	G◄Y	G	G◄G	G◄G	G◄G	Y	R	G◄G	G◄Y	G	R	R	G	◊
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	S/B	G	Y	R	R	R	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	◊
ILL. RTE. 83 AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS	S/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄R	◊
ILL. RTE. 83 (NORTH OF TRACKS) OPTICALLY PROGRAMMED SIGNALS	S/B	G	G	G	G	G	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	◊
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	G	Y	R	R	R	G	Y	R	R	R	R	◊
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) END MAST ARM AND FAR LEFT SIGNALS	E/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄Y	◄R	◄R	◄R	◄Y	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◊
PROSPECT AVE. AT ILL. RTE. 83 ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	Y	R	R	R	G	Y	R	R	R	R	◊
ILL. RTE. 83 AT PROSPECT AVENUE ALL SIGNALS	N/B	G	Y	R	R	R	G	Y	R	R	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	◊
ILL. RTE. 83 AT PROSPECT AVE. FAR RIGHT MAST ARM SIGNAL	S/B	G	G	G	G	G	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	◊
ILL. RTE. 83 AT PROSPECT AVE. END MAST ARM AND FAR LEFT SIGNALS	S/B	G	G	G	G	G	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G◄G	G◄G	G	◊
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83		FH	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83		FH	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83		FH	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83		FH	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊

◊ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3 OR 4 IS TERMINATED.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

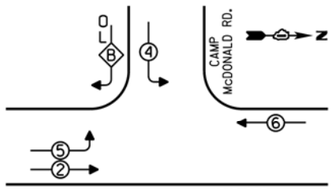
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EMERGENCY VEHICLE PREEMPTION SEQUENCE, US14 (NW HIGHWAY) AT IL83 (ELMHURST ROAD)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	81
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE



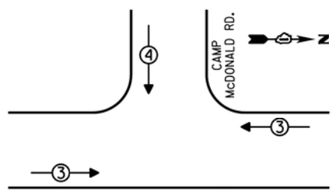
LEGEND

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

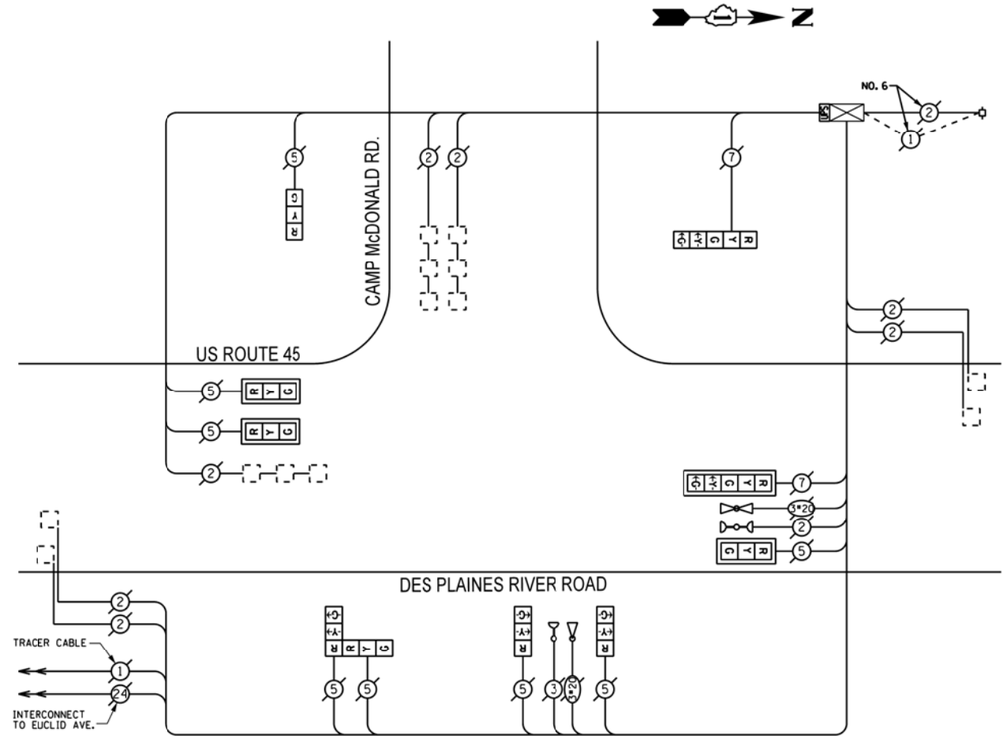
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	4	+	5

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇆	⇅



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	10		17	0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	4		12	0.10	4.80
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	289.80

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT. ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

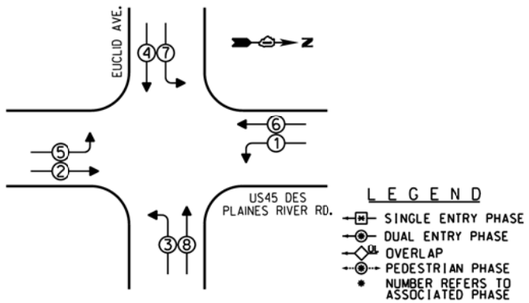
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, DESPLAINES RIVER ROAD AT CAMP McDONALD ROAD

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

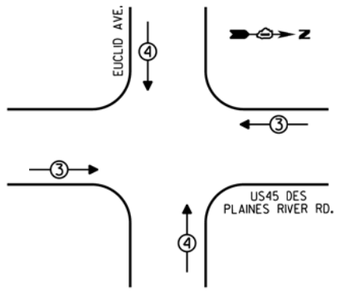
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	82
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

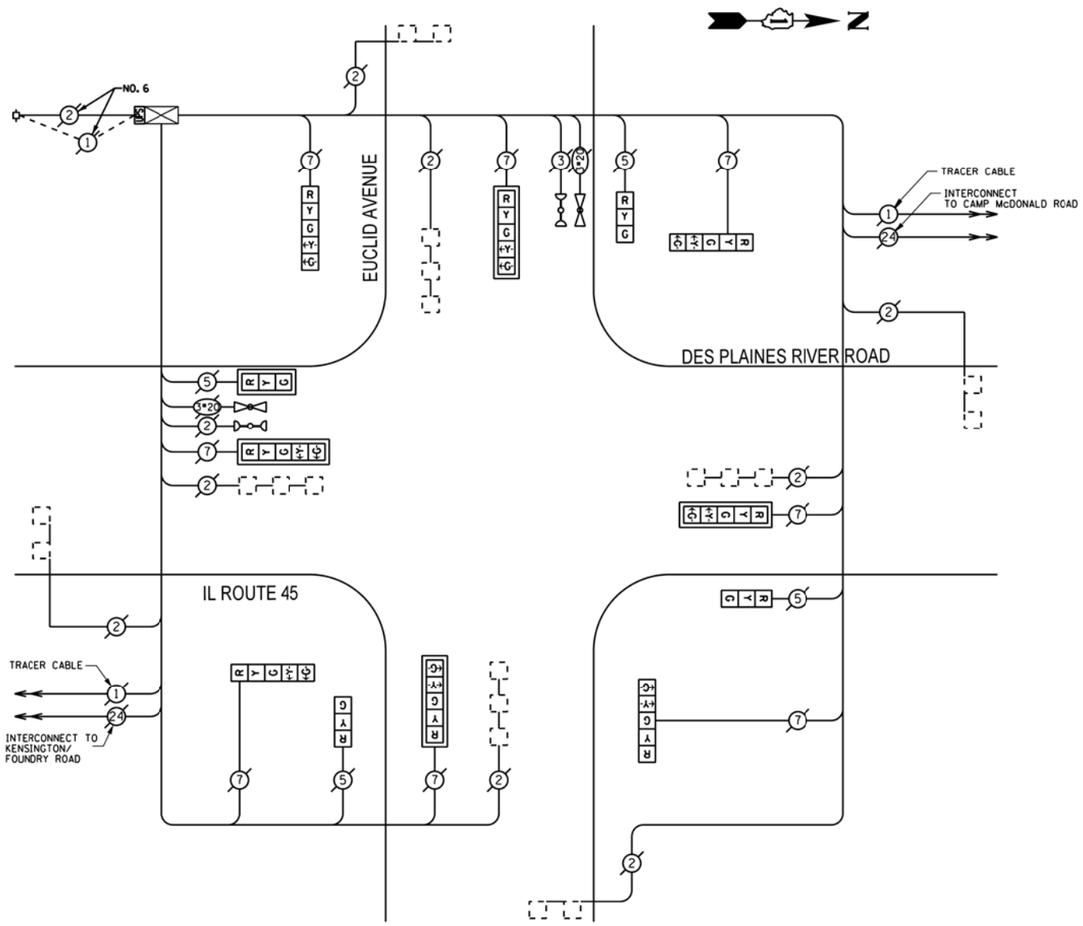


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇆	⇅

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	341.20

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED



CABLE PLAN

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
3	EACH	TRAFFIC SIGNAL POST
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
8	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

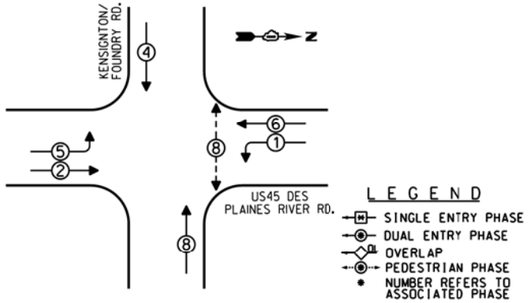
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, DESPLAINES RIVER ROAD AT EUCLID AVENUE

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

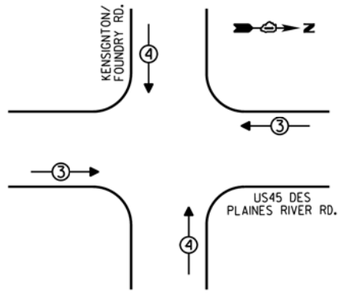
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	83
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

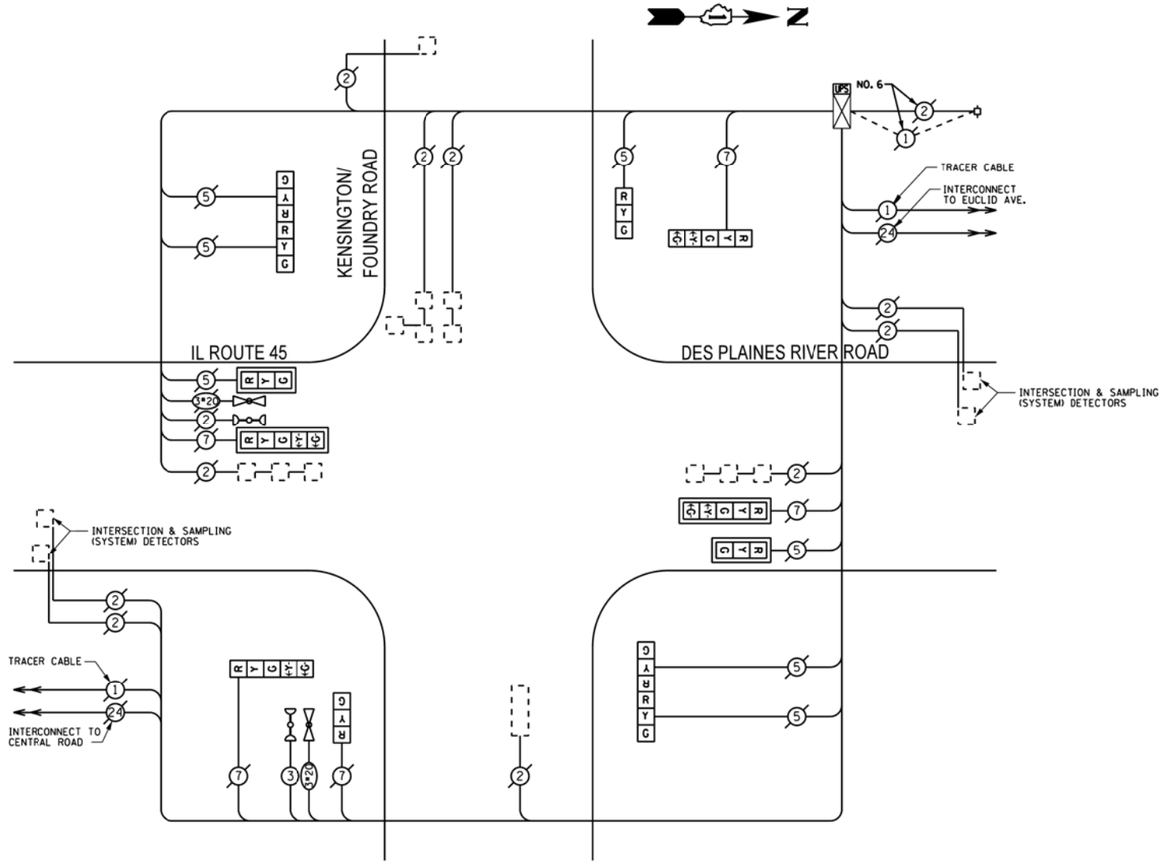


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	8		12	0.10	9.60
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	331.60

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILEL$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

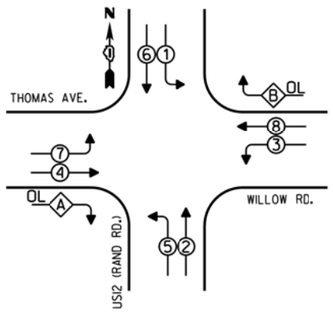
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, DESPLAINES RIVER ROAD AT KENSINGTON FOUNDRY ROAD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	84
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

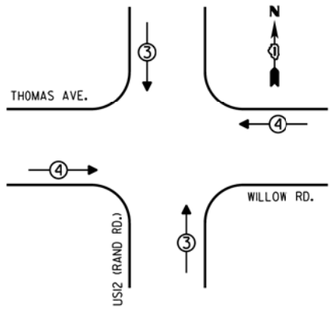


LEGEND
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

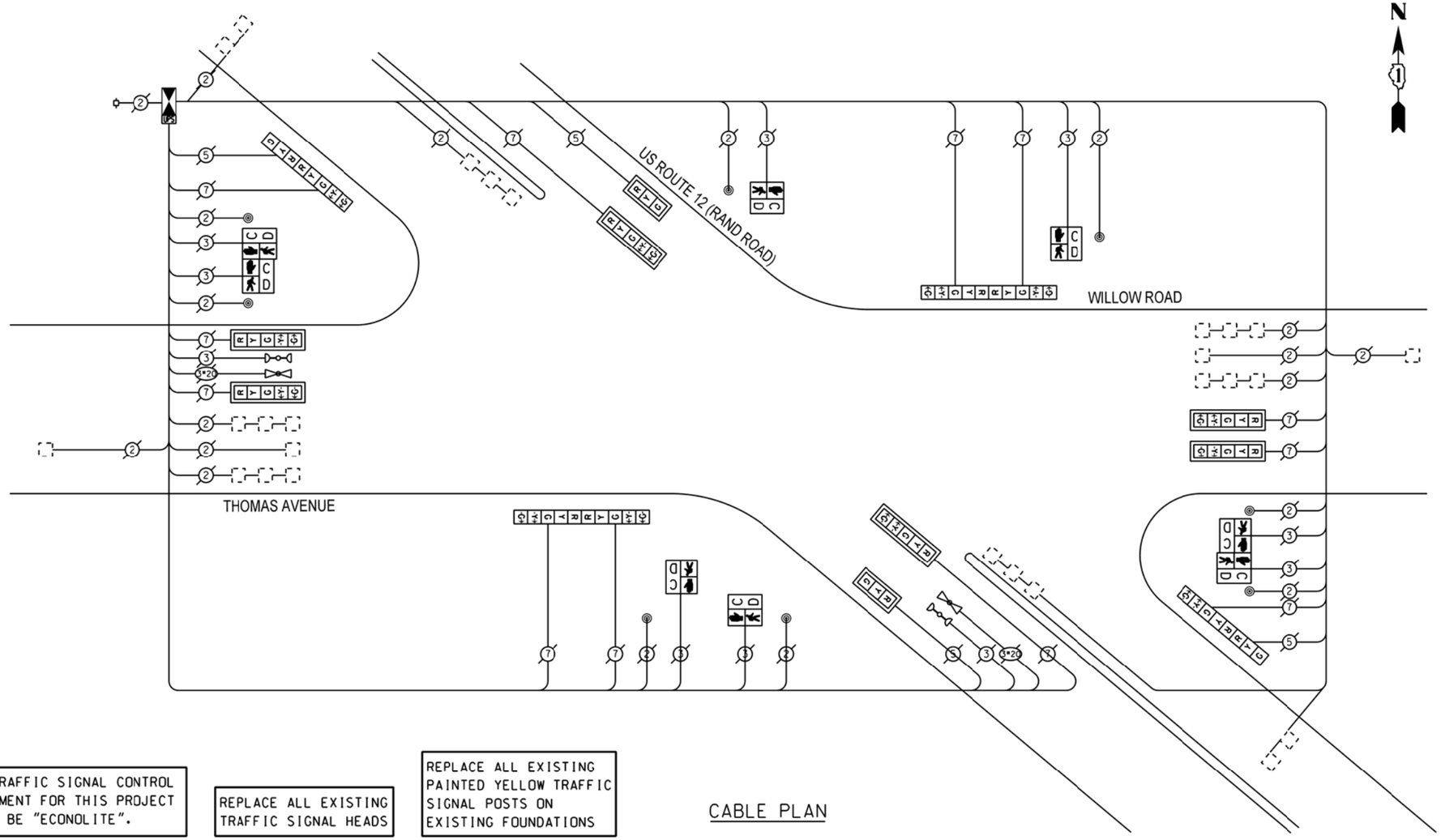
PHASE DESIGNATION DIAGRAM

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

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

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

REPLACE ALL EXISTING PAINTED YELLOW TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND	WATTAGE LED	X % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	24		12	0.10	28.80
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	624.80

VILLAGE OF MOUNT PROSPECT
50 SOUTH EMERSON STREET
MOUNT PROSPECT, ILLINOIS 60056

ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

QUANTITY	UNIT	DESCRIPTION
1	EACH	CONTROLLER AND CABINET (COMPLETE)
5	EACH	TRAFFIC SIGNAL POST
2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
6	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
8	EACH	PEDESTRIAN PUSHBUTTON

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
6	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT WILLOW ROAD/THOMAS AVENUE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-I	COOK	85	85
		CONTRACT NO. 60W23		
	ILLINOIS FED. AID PROJECT			