

INDEX OF SHEETS  
SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

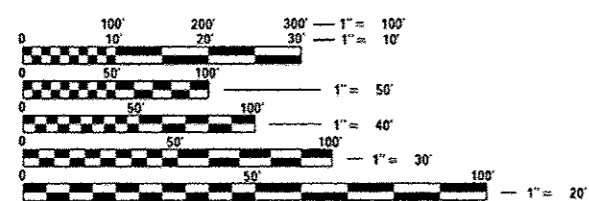
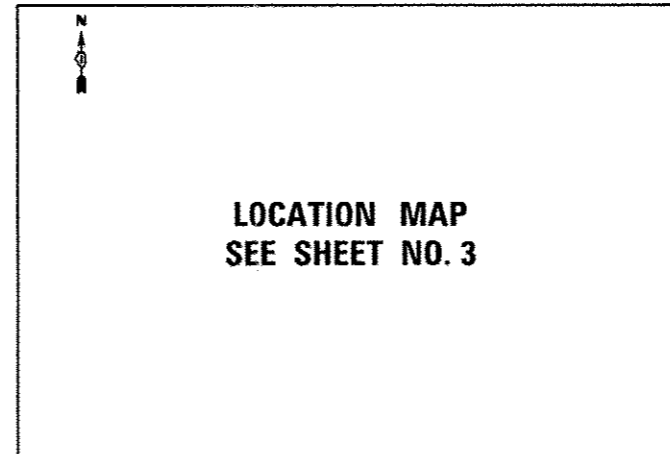
VARIOUS LOCATIONS IN  
NORTHWEST COOK COUNTY, CONTRACT #1  
**LIGHT EMITTING DIODE (LED) INSTALLATION**  
SECTION 2013-005-1  
COOK COUNTY  
C-91-218-13

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

\*85 + 14 = 99

**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



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 Putman  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

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

June 28 2013  
omer osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

Rev. 7-18-13

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4-7		SUMMARY OF QUANTITIES
8-13		IDOT DISTRICT I 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 @ CLUB 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
85A		IL 83 @ CAMP MCDONALD ROAD
85B		IL 83 @ GREGORY STREET
85C		IL 83 @ CENTRAL ROAD
85D		IL 83 @ OAKTON STREET
85E		US 12 @ BUSINESS CENTER DRIVE
85F		US 12 @ MOUNT PROSPECT ROAD
85G		US 12 @ CENTRAL ROAD
85H		CENTRAL ROAD @ MOUNT PROSPECT ROAD
85I		CENTRAL ROAD @ OWEN STREET
85J		BUSSE ROAD @ WILLOW LANE
85K		CENTRAL ROAD AND US14(INW HIGHWAY), PROSPECT AVE
85L-85M		US14 NORTHWEST HWY @ EMERSON STREET
85N		IL62(ALGONQUIN ROAD) @ LINNEMAN ROAD

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 RESPONSIBILITY 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 UTILITIES 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 UNINTERRUPTIBLE 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 UNINTERRUPTIBLE 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 SEEDING 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.

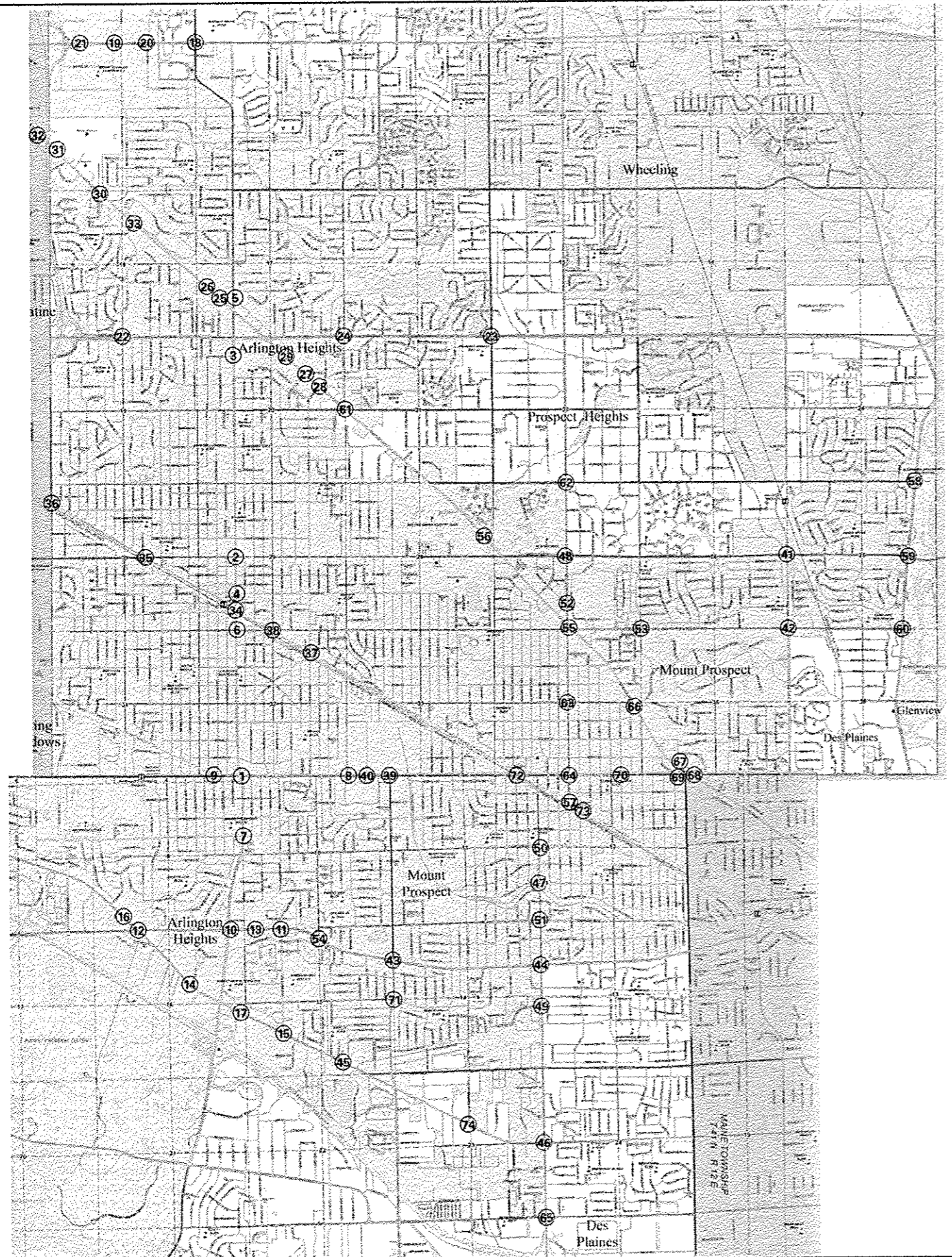
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*MODEL NAME#		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND GENERAL NOTES

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RYE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-1	COOK	85	2
CONTRACT NO. GOW23				
(ILLINOIS) FED. AID PROJECT				



TS #	LOCATION
1	12540 ARLINGTON HEIGHTS RD @ CENTRAL RD
2	12565 ARLINGTON HEIGHTS RD @ EUCLID AVE
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69	CENTRAL ROAD @ MOUNT PROSPECT ROAD
70	CENTRAL ROAD @ OWEN STREET
71	BUSSE ROAD @ WILLOW LANE
72	CENTRAL ROAD AND US14(NW HIGHWAY), PROSPECT AVE
73	US14 NORTHWEST HWY @ EMERSON ST
74	IL62(ALGONQUIN ROAD) @ LINNEMAN ROAD

FILE NAME *	USER NAME * #USER#	DESIGNED -	REVISED - 07-17-13
#FILE#		DRAWN -	REVISED -
	PLOT SCALE * #SCALE#	CHECKED -	REVISED -
#MODELNAME#	PLOT DATE * #DATE#	DATE	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP**

SCALE: NONE	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-005-1	COOK	85	3
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	10	4	4			1	1				
88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	34	25	6			1	2				
88055190	<del>OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED</del>	<del>EACH</del>	<del>1</del>						1				
88055200	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3					1	2				
88055350	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	2				1					
88055372	<del>OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED</del>	<del>EACH</del>	<del>1</del>					1					
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	2	1					1				
88060390	COMBINATION SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 2-3 SECTION, BRACKET MOUNTED	EACH	1	1									
88060405	<del>COMBINATION SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED</del>	<del>EACH</del>	<del>1</del>						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	116	16	42	6	40	4	8				
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	57	20	16		8		9		4		
88102757	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	2									

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07051.01  
07051.02

CONSTRUCTION CODE							
1	2	3	4	5	6	7	8

9 10

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNAL 0021 URBAN									
				1	2	3	4	5	6	7	8		
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	100	68	72	2	14	4	8				
88800100	PEDESTRIAN PUSH-BUTTON	EACH	247	77	59	12	62	7	26	4			
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	6									2	4
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	62	18	20	3	11	4	4		1	1	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	68	20	22	3	13	3	6				
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	6	3	2								
X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	64	18	22	3	11	4	4		1	1	
X8620050	UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED	EACH	1				1						
X8803040	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	17	11	3		1	2					
X8803060	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1					1					
X8803082	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	29	2	4		20	3					
X8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	105	29	29		33	4	2	8			
X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	70	30	15		15	3	5	2			
X8803090	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	9				7	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	31	6	10		13	1	1				
X8803910	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT	EACH	11	8	1			1					
Z0076604	TRAINEES-TRAINING PROGRAM GRADUATE	HOUR	500	500									

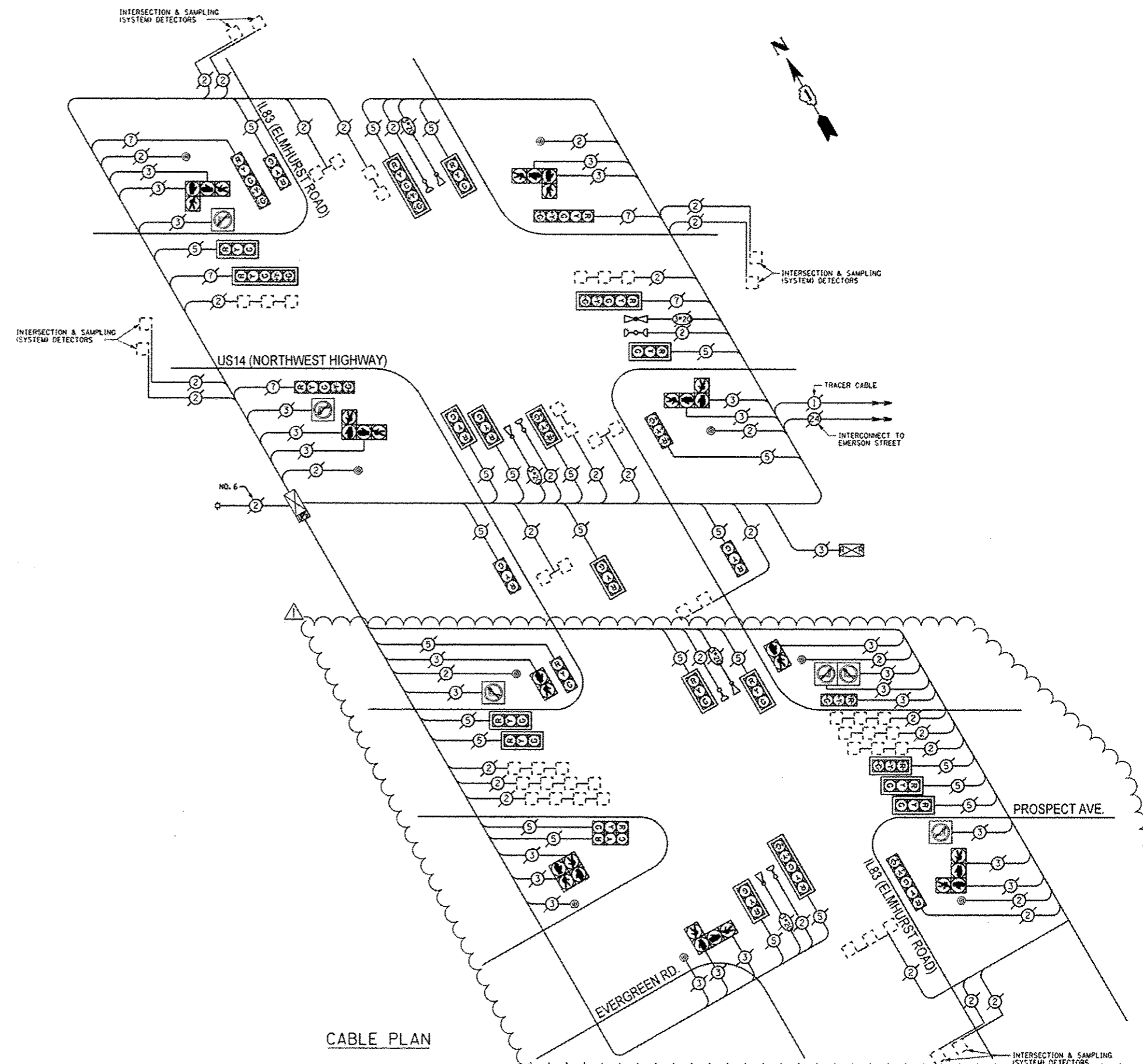
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Rev.

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
FILE NO.		DRAWN	REVISED		SHEET 4 OF 4								VAR	2013-005-1	COOK	85	7
MODEL NAME		CHECKED	REVISED		SCALE: NONE	SHEET	OF						SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
		DATE	REVISED														



**SCHEDULE OF QUANTITIES**

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

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 (INCAND)	WATTAGE	LED % OPERATIONS	
SIGNAL (RED)	31	17	0.50	263.50
(YELLOW)	31	25	0.25	193.75
(GREEN)	31	15	0.25	116.25
ARROW	16	12	0.10	19.20
PED. SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN	6	25	0.05	7.50
LUMINAIRE	250		0.50	
VIDEO SYSTEM	150		1.00	
FLASHER			0.50	
ENERGY COSTS TO:				TOTAL = 900.20

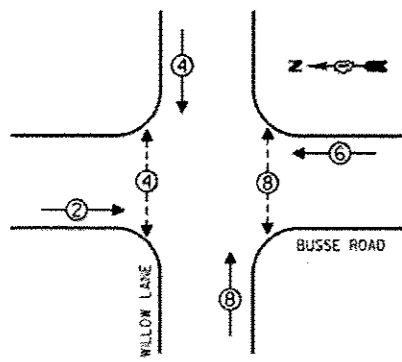
VILLAGE OF MOUNT PROSPECT  
 50 SOUTH EMERSON STREET  
 MOUNT PROSPECT, ILLINOIS 60056

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

CABLE PLAN



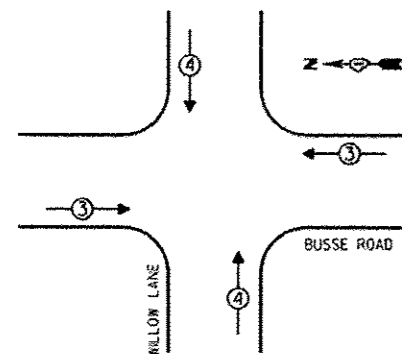
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

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

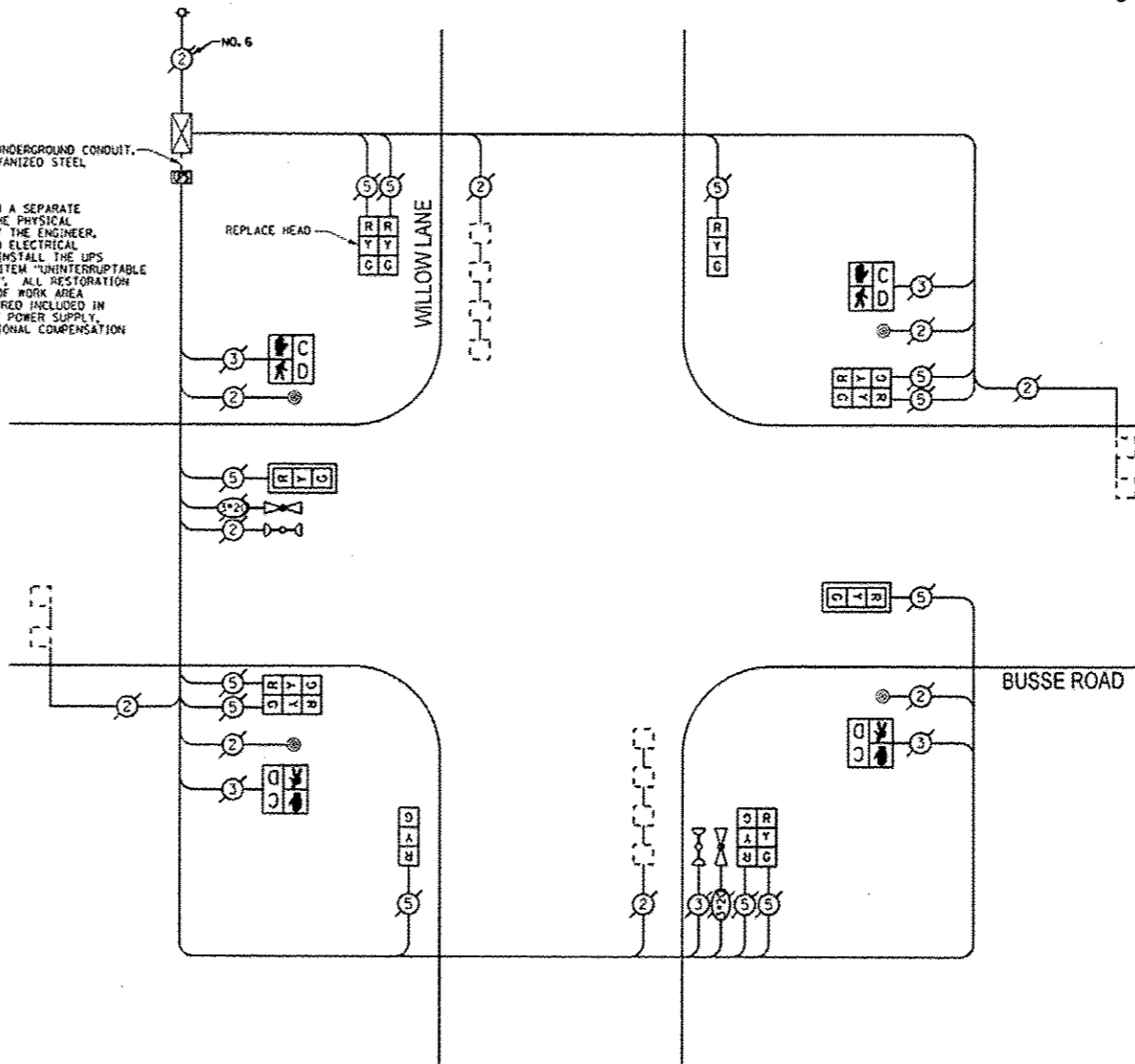
EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	↔ ↕

CONSTRUCTION NOTE

THE UPS SHALL BE INSTALLED ON A SEPARATE TYPE "A" FOUNDATION DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK AND ALL CONDUIT AND ELECTRICAL CABLE NECESSARY TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED". ALL RESTORATION SPECIFIED IN THE RESTORATION OF WORK AREA GENERAL NOTE SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED" AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.



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					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND.	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			12	0.10	
PEDESTRIAN 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 = 422.00

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

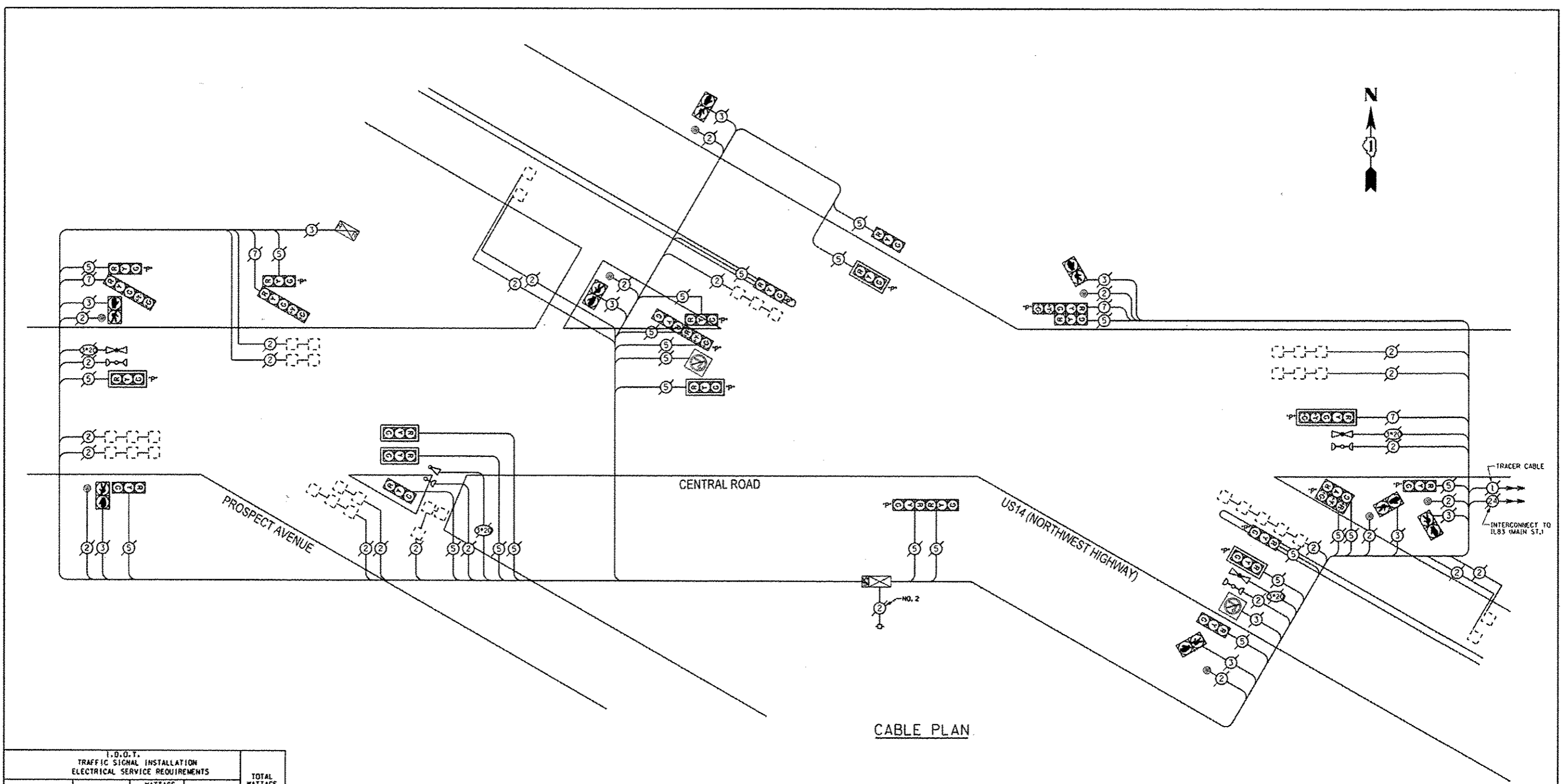
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY	UNIT	DESCRIPTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
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	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
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
1	EACH	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT

FILE NAME: #FILE#	USER NAME: #USER#	DESIGNED: -	REVISED: - 07-17-13	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, BUSSE ROAD AT WILLOW LANE	F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#PLOT#	PLOT SCALE: #SCALE#	DRAWN: -	REVISED: -			VAR	2013-005-1	COOK	85	85J	
#MODEL#	PLOT DATE: #DATE#	CHECKED: -	REVISED: -			CONTRACT NO. 60W23					
SCALE: NONE						SHEET OF SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT	



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. OF LAMPS	WATTAGE	LED % OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	27	17	0.50	229.50
(YELLOW)	27	25	0.25	168.75
(GREEN)	27	15	0.25	101.25
ARROW	8	12	0.10	9.60
RED SIGNAL CONTROLLER	8	25	1.00	200.00
ILLUM. SIGN	1	100	1.00	100.00
LUMINAIRE	2	25	0.50	2.50
VIDEO SYSTEM		150	1.00	
FLASHER			0.50	
ENERGY COSTS 10:			TOTAL =	811.60

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

ENERGY SUPPLY - CONTACT: DAVE SCHACHT  
PHONE: 16301 431-2129  
COMPANY: COMED

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

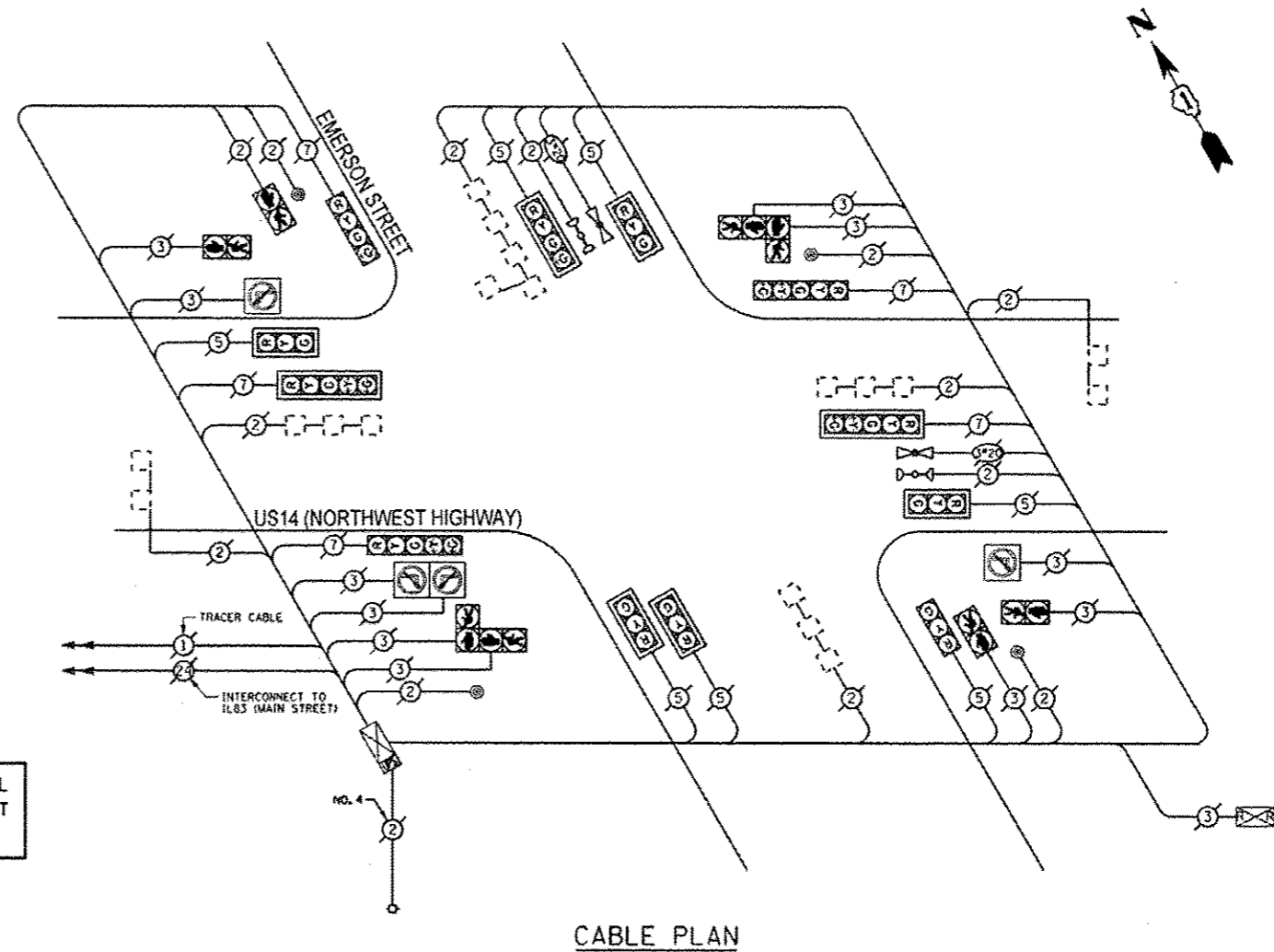
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY	UNIT	DESCRIPTION
8	EACH	PEDESTRIAN PUSHBUTTON

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

SCHEDULE OF QUANTITIES

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



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

CABLE PLAN

I.O.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND	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	10		12	0.10	12.00
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	539.00

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 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 - 07-17-13	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US14 (NW HIGHWAY) AT EMERSON STREET	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -			VAR.	2013-005-1	COOK	85	85L
#MODELNAME#		CHECKED -	REVISED -			CONTRACT NO. 60W23		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -			SCALE: NONE	SHEET OF SHEETS	STA. TO STA.		

**SEQUENCE OF OPERATION**

MOVEMENT	1 + 5	1 + 6	2 + 5	2 + 6	4 + 8	F	L	A	S	H								
PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16A	16B
CHANGE TO		1+6	2+5	2+6	⊕	⊕	2+6	⊕	⊕	2+6					4+8			1+5 1+6 2+5 2+6
U.S. RTE. 14 (NORTHWEST HWY.) FAR RIGHT MAST ARM SIGNAL	E/B	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) FAR RIGHT MAST ARM SIGNAL	W/B	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R
EMERSON ST. FAR RIGHT MAST ARM SIGNAL	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y
EMERSON ST. END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y
EMERSON ST. ALL SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y
PEDESTRIAN SIGNALS CROSSING EMERSON ST. 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
PEDESTRIAN SIGNALS CROSSING EMERSON ST. 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
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF EMERSON ST.	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 EMERSON ST.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

⊕ TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION  
 ⊕ FLASHING ⊕ IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.  
 ⊕ THIS ⊕ OR FLASHING ⊕ INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE ⊕ OR FLASHING ⊕ INTERVALS.  
 ⊕ AND FLASHING ⊕ TIMINGS TO BE SET ONLY ON PHASES WHERE ⊕ AND FLASHING ⊕ ARE INDICATED IN THE SEQUENCE OF OPERATION.

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

PHASE 2+6 SHALL BE PLACED ON RECALL.

NLT = "NO LEFT TURN" OR

NRT = "NO RIGHT TURN" OR

**RAILROAD PREEMPTION SEQUENCE OF OPERATION**

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	PREEMPTION NUMBER														CLEAR TO NORMAL SEQUENCE			
	1	5	8	11	14	2	3	4	5	6	7	8	9	10				
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	2	3	4	5	
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	1J	2	1L	2	1N	2	3	4	5		
U.S. RTE. 14 (NORTHWEST HWY.) FAR RIGHT MAST ARM SIGNAL	E/B	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	R	G
U.S. RTE. 14 (NORTHWEST HWY.) END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	R	G
U.S. RTE. 14 (NORTHWEST HWY.) FAR RIGHT MAST ARM SIGNAL	W/B	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	G
U.S. RTE. 14 (NORTHWEST HWY.) END MAST ARM AND FAR LEFT SIGNALS	W/B	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	G
EMERSON ST. FAR RIGHT MAST ARM SIGNAL	N/B	R	R	R	R	R	R	R	G	G	R	R	G	G	G	Y	R	R
EMERSON ST. END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	G	G	R	R	G	G	G	Y	R	R
EMERSON ST. ALL SIGNALS	S/B	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING EMERSON ST. ON NORTH SIDE OF U.S. RTE. 14	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING EMERSON ST. ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF EMERSON ST.	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF EMERSON ST.	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT

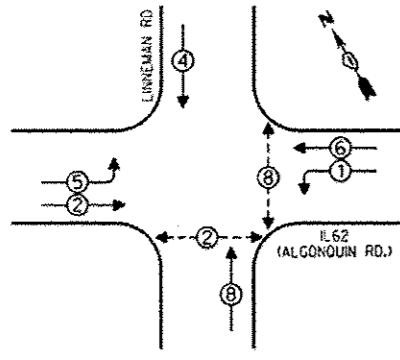
△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

**EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION**

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	PREEMPTION NUMBER																			CLEAR TO NORMAL SEQUENCE	
	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U		
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2																			3	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	1J	2	1L	2	1N	2	3	4	5					
U.S. RTE. 14 (NORTHWEST HWY.) FAR RIGHT MAST ARM SIGNAL	E/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R		
U.S. RTE. 14 (NORTHWEST HWY.) END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R		
U.S. RTE. 14 (NORTHWEST HWY.) FAR RIGHT MAST ARM SIGNAL	W/B	R	G	G	G	Y	R	R	R	R	P	R	R	G	G	Y	R	R	R		
U.S. RTE. 14 (NORTHWEST HWY.) END MAST ARM AND FAR LEFT SIGNALS	W/B	R	G	G	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R		
EMERSON ST. 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		
EMERSON ST. 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		
EMERSON ST. ALL SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
PEDESTRIAN SIGNALS CROSSING EMERSON ST. ON NORTH SIDE OF U.S. RTE. 14	H	FH	H	FH	H	H	H	H	H	H	H	H	H	FH	FH	H	H	H	H		
PEDESTRIAN SIGNALS CROSSING EMERSON ST. ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	FH	H	H	H	H	H	H	FH	FH	H	H	H	H		
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF EMERSON ST.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H		
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF EMERSON ST.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	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 VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

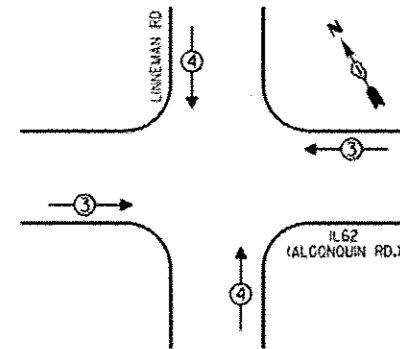
CONTROLLER SEQUENCE



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

PHASE DESIGNATION DIAGRAM

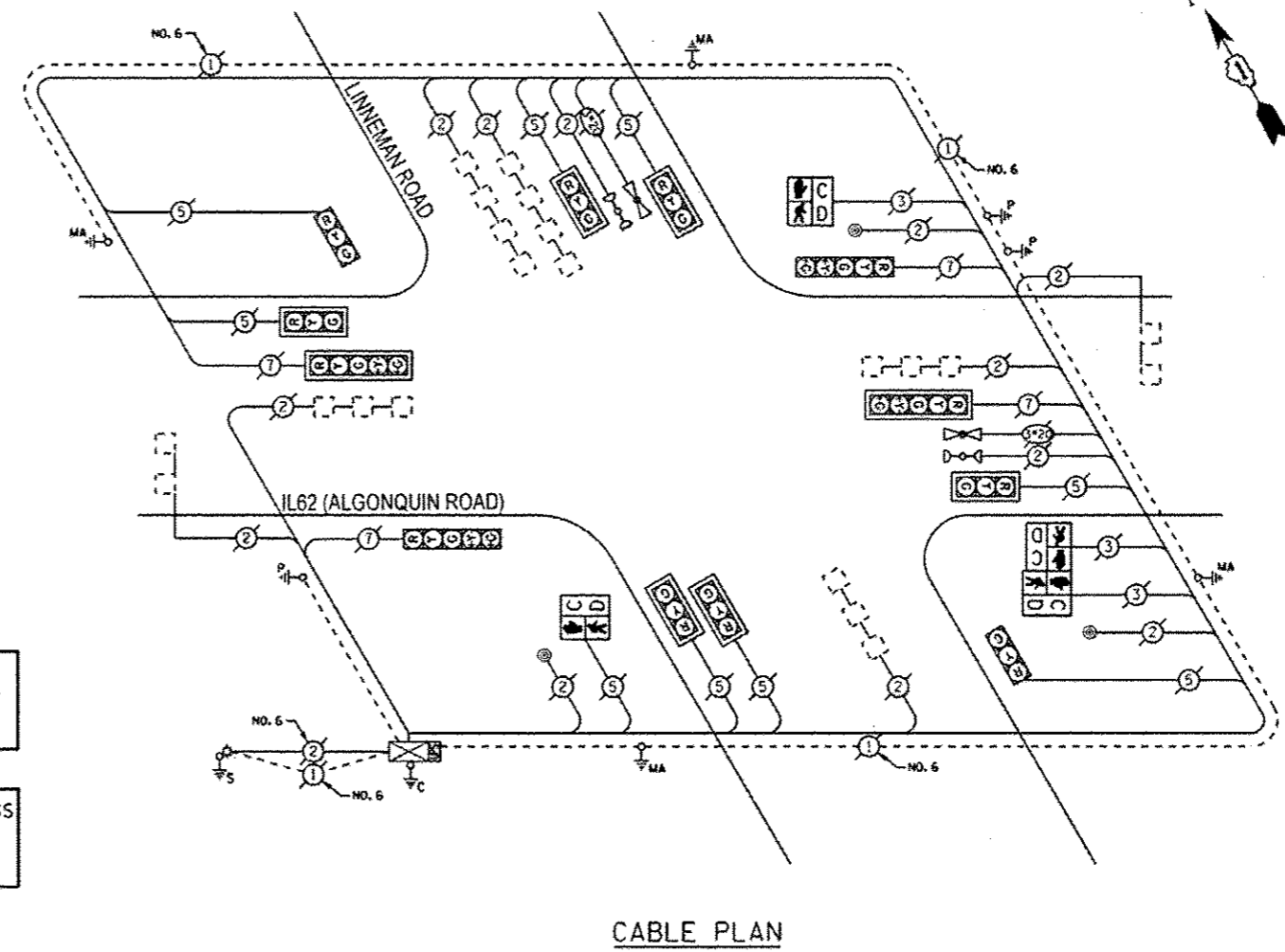
EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

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

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



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

SCHEDULE OF QUANTITIES

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

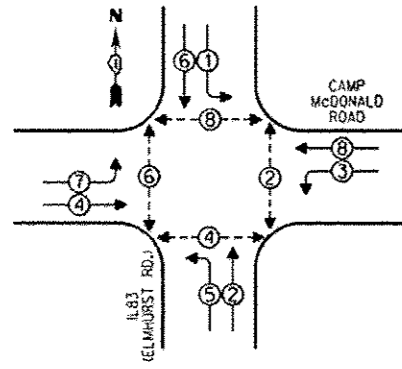
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS (INCAND)	LED	% OPERATIONS		
SIGNAL (RED)	12	17	0.50		102.00
(YELLOW)	12	25	0.25		75.00
(GREEN)	12	15	0.25		45.00
ARROW	8	12	0.10		9.60
PED. SIGNAL	4	25	1.00		100.00
CONTROLLER	1	100	1.00		100.00
ILLUM. 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

FILE NAME *	USER NAME * #USER#	DESIGNED -	REVISED - 07-17-13	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL62 (ALGONQUIN ROAD) AT LINNEMAN ROAD</b>	F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			VAR.	2013-005-1	COOK	95	85N	
#MODEL NAME#		CHECKED -	REVISED -			CONTRACT NO. 60W23		ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -			SCALE: NONE	SHEET OF SHEETS	STA. TO STA.			

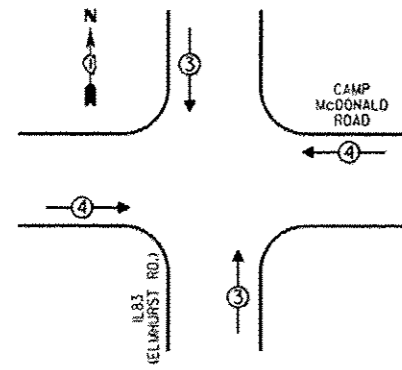
CONTROLLER SEQUENCE



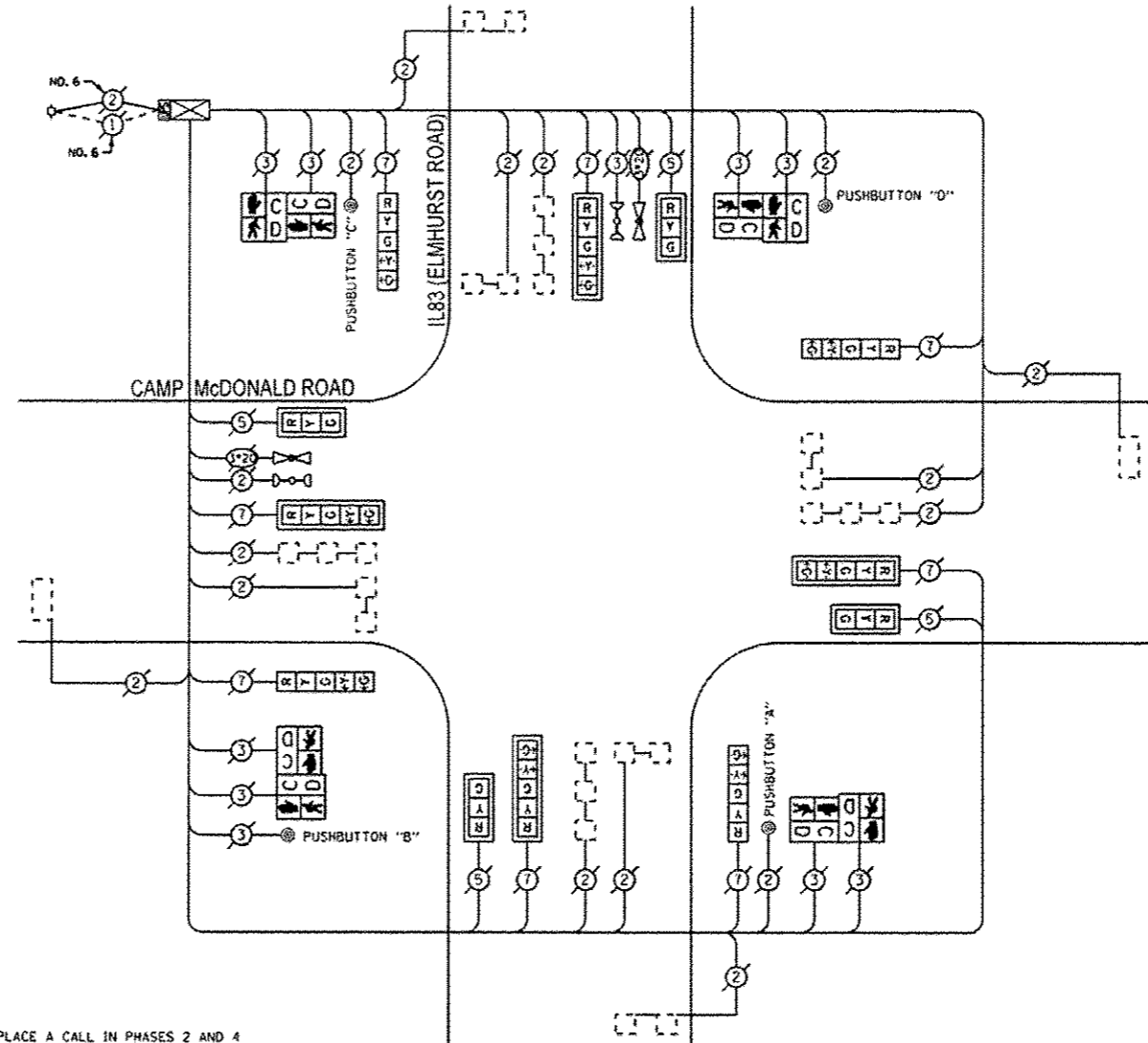
PHASE DESIGNATION DIAGRAM

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

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".

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
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
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

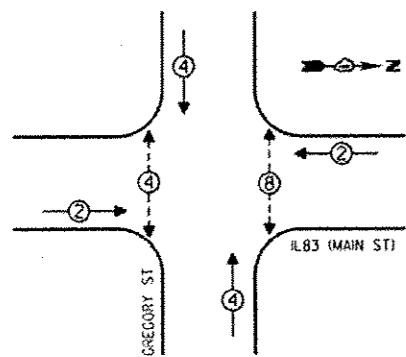
I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND.	LED % OPERATIONS	
SIGNAL (RED)	12	17	0.50	102.00
(YELLOW)	12	25	0.25	75.00
(GREEN)	12	15	0.25	45.00
ARROW	16	12	0.10	14.40
PED. SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN		25	0.05	
LUMINAIRE		250	0.50	
VIDEO SYSTEM		150	1.00	
FLASHER			0.50	
ENERGY COSTS TO:				TOTAL = 536.40

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

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

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED - 07-17-13	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, IL83 (ELMHURST ROAD) AT CAMP McDONALD ROAD</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
#FILE#		DRAWN -	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	VAR	2013-005-1	COOK	85	85A
#MODEL#		CHECKED -	REVISED -												CONTRACT NO. 60W23
		DATE -	REVISED -												ILLINOIS FED. AID PROJECT

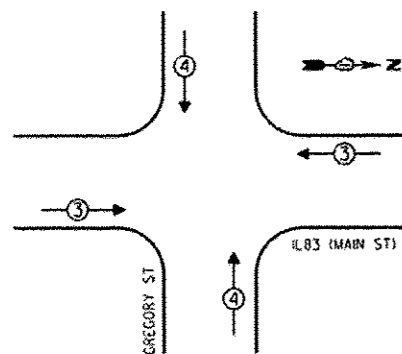
CONTROLLER SEQUENCE



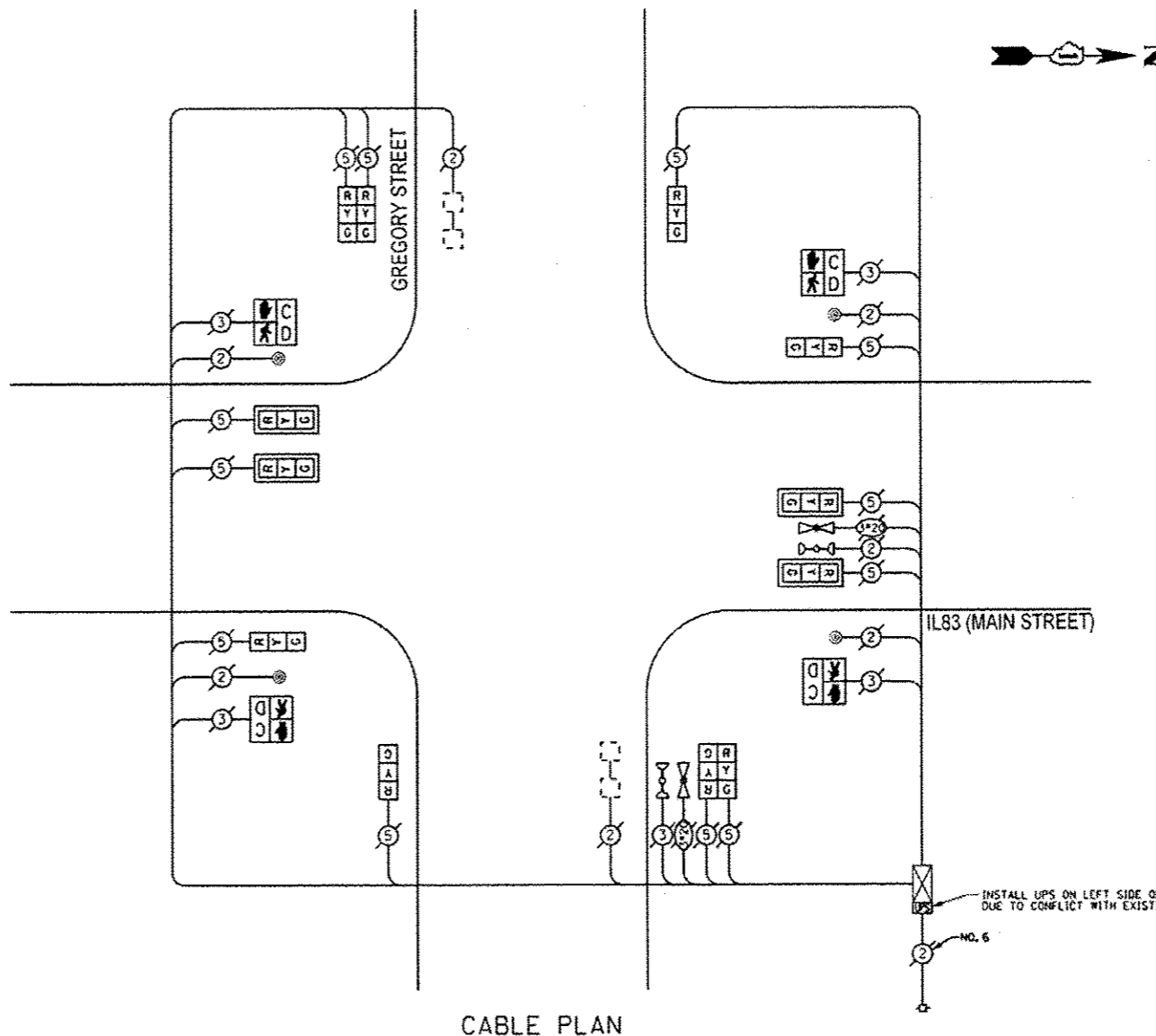
**LEGEND**  
 [Symbol] SINGLE ENTRY PHASE  
 [Symbol] DUAL ENTRY PHASE  
 [Symbol] OVERLAP  
 [Symbol] PEDESTRIAN PHASE  
 \* NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS

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

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

I.D.D.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS (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	0.10	
PED. SIGNAL	4	25	1.00	100.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN LUMINAIRE		25	0.05	
VIDEO SYSTEM		150	1.00	
FLASHER			0.50	
ENERGY COSTS TO:				TOTAL = 422.00

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

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

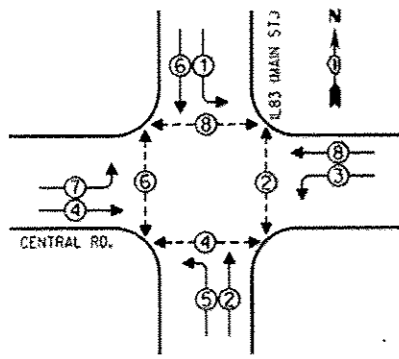
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, I-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
4	EACH	SIGNAL HEAD, LED, I-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, I-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT

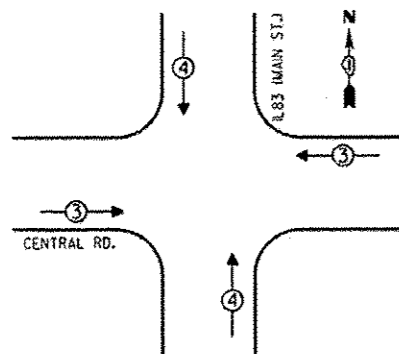
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

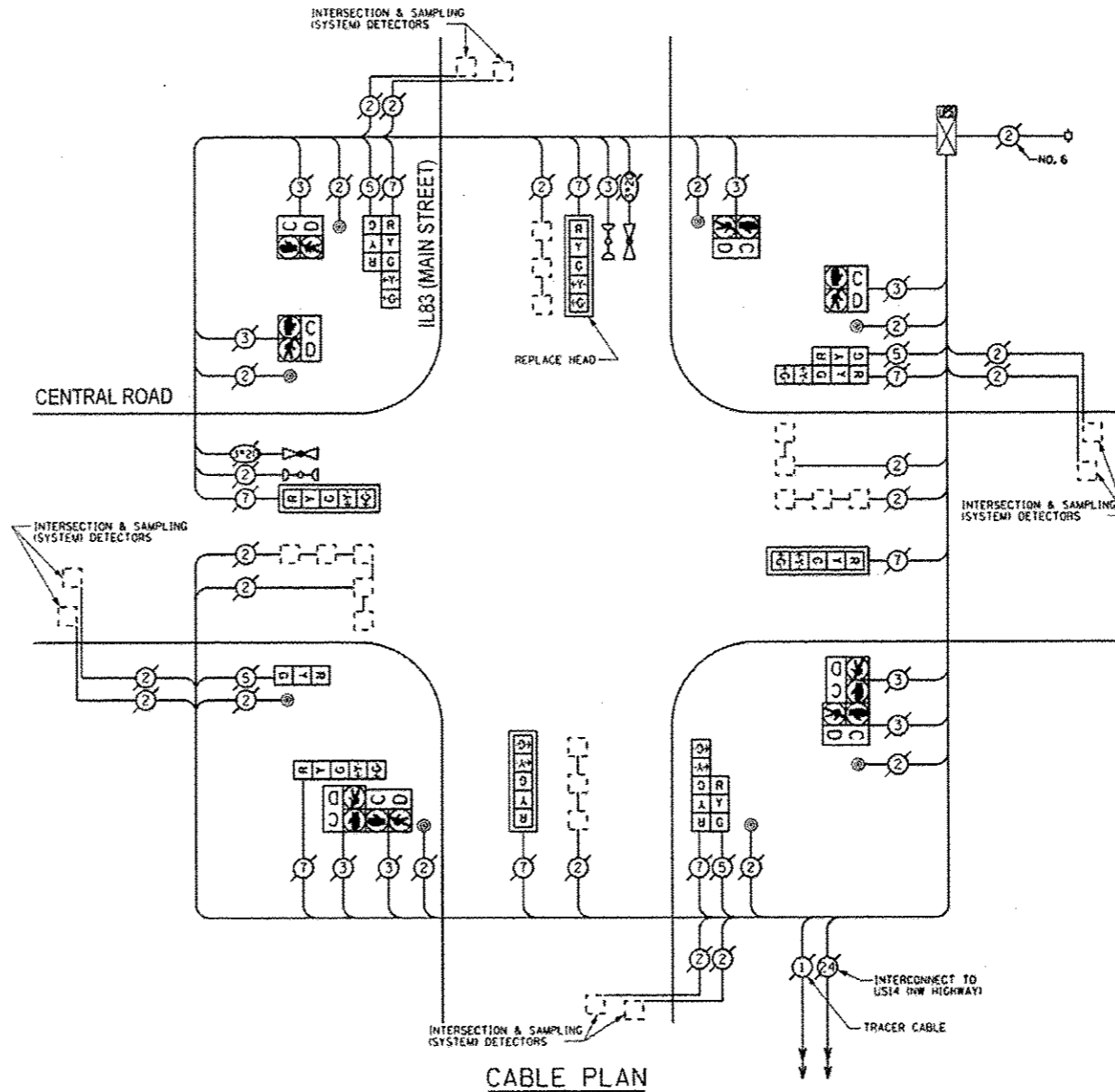


EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	←→	↑↓	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS (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



CABLE PLAN



RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS EXCEPT AS NOTED

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

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	TRAFFIC SIGNAL BACKPLATE
8	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
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

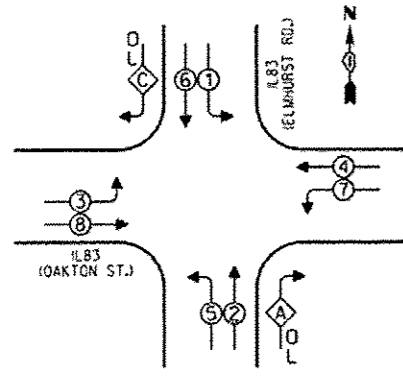
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, ILB3 (MAIN STREET) AT CENTRAL ROAD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	#USER#	DRAWN	REVISED					VAR	2013-005-1	COOK	85	85C
#MODEL#	PLOT SCALE	CHECKED	REVISED									CONTRACT NO. 60W23
	PLOT DATE	DATE	REVISED									ILLINOIS FED. AID PROJECT



**CONTROLLER SEQUENCE**

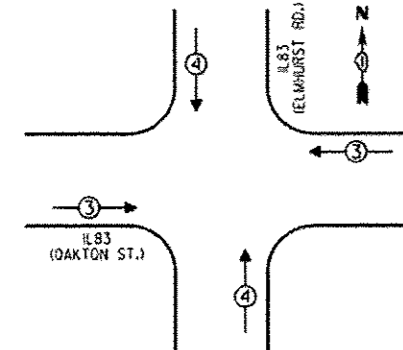


- LEGEND**
- SINGLE ENTRY PHASE
  - DUAL ENTRY PHASE
  - ◇ OVERLAP
  - ⊙ PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

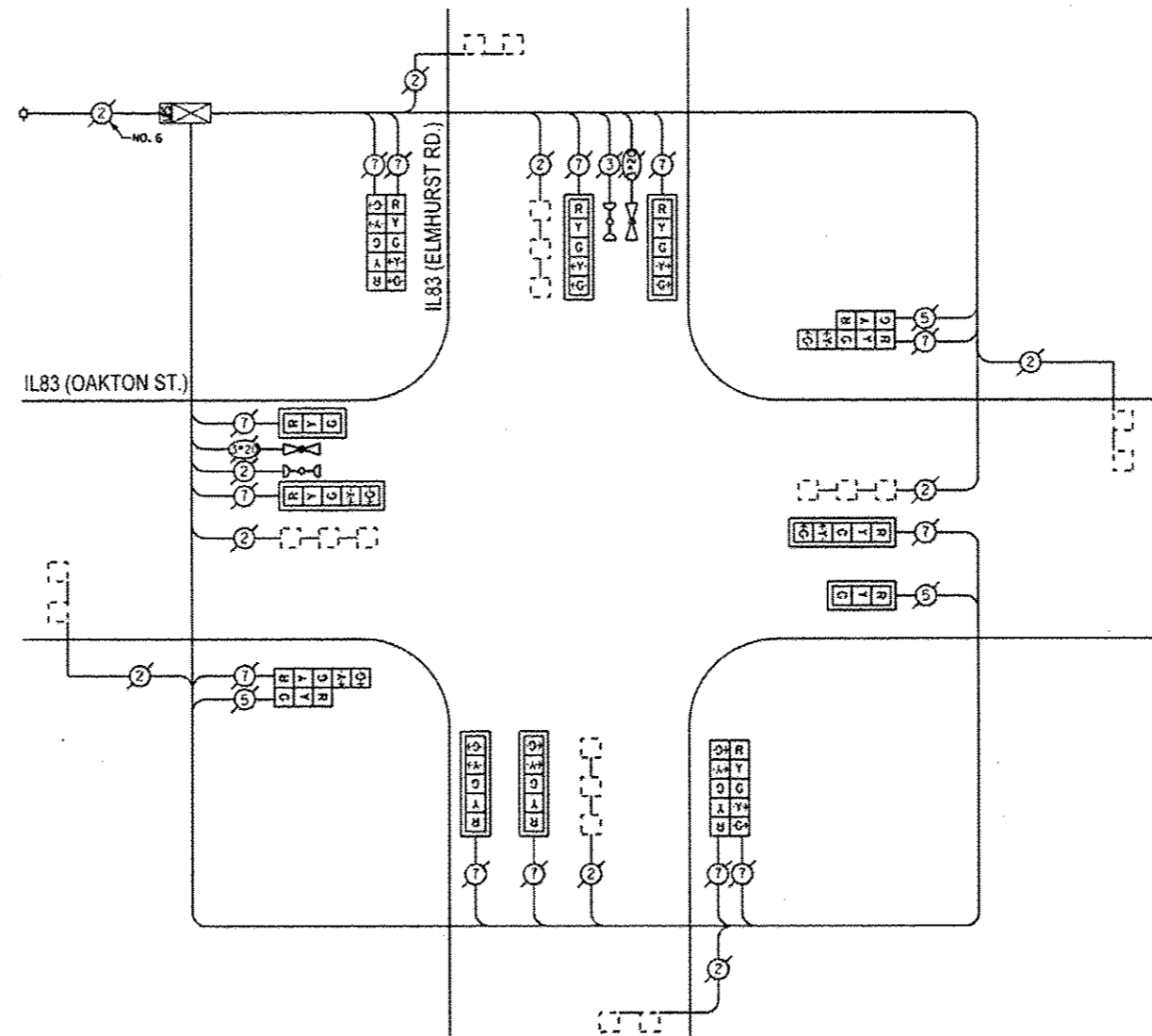
**PHASE DESIGNATION DIAGRAM**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
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	INCAND.	LED %	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
FED. SIGNAL CONTROLLER	1		25	1.00	100.00
ILLUM. SIGN LUMINAIRE		250	25	0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 424.80

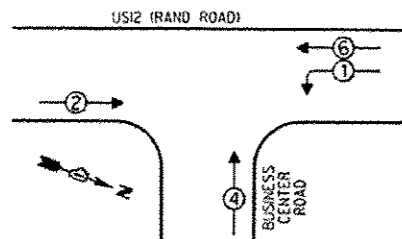
VILLAGE OF MOUNT PROSPECT  
50 SOUTH EMERSON STREET  
MOUNT PROSPECT, ILLINOIS 60056

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

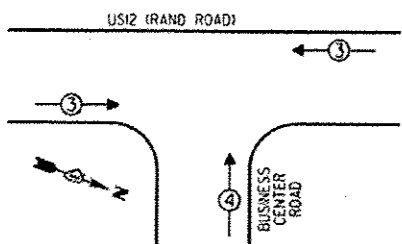
**CONTROLLER SEQUENCE**



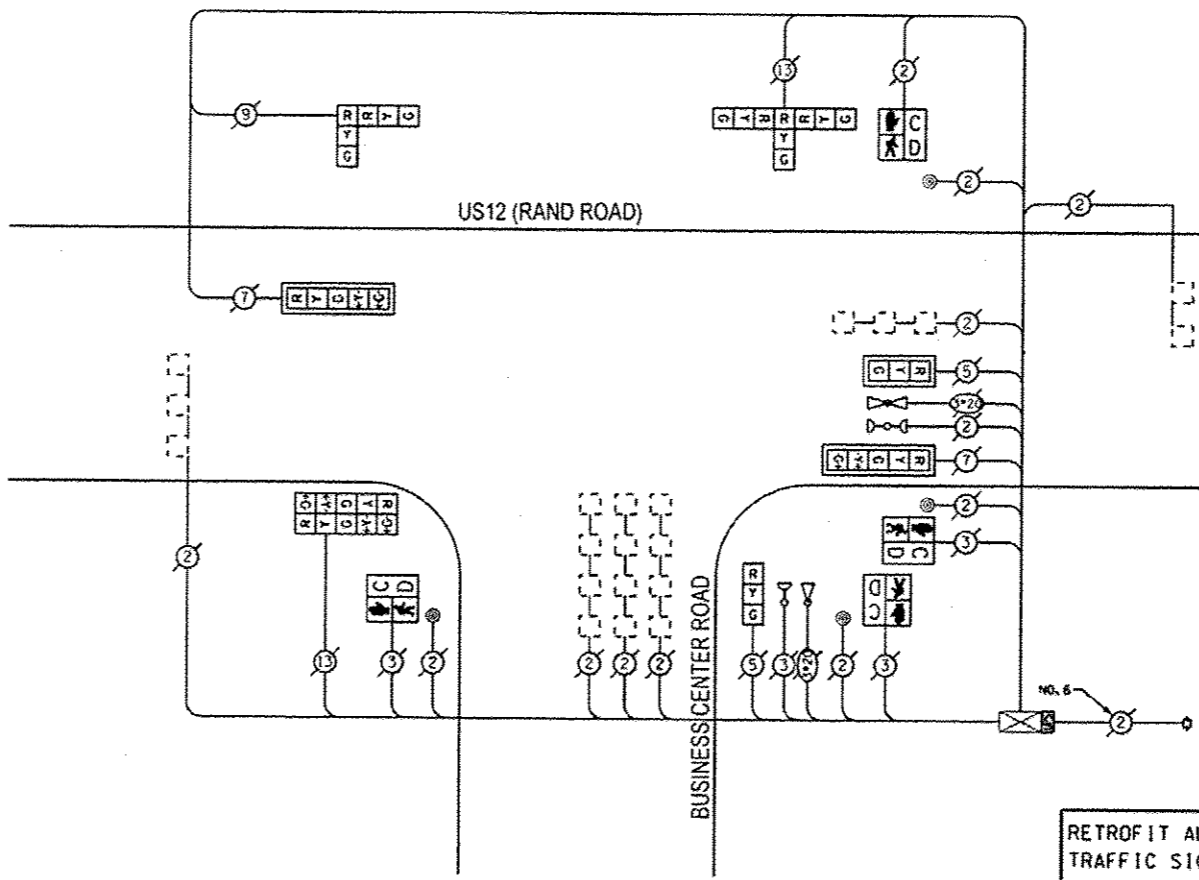
**PHASE DESIGNATION DIAGRAM**

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

**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".

**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
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
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	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
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE	LED % OPERATIONS	
SIGNAL (RED)	11	17	0.50	93.50
(YELLOW)	11	25	0.25	68.75
(GREEN)	11	15	0.25	41.25
ARROW	8	12	0.10	9.60
PEDESTRIAN 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 = 386.10

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

ENERGY SUPPLY - CONTACT: DAVE SCHACHT  
PHONE: 16301 437-2129  
COMPANY: COMED

FILE NAME #	USER NAME # USER#	DESIGNED -	REVISED - 07-17-13
FILE#		DRAWN -	REVISED -
MODEL NAME#		CHECKED -	REVISED -
		DATE -	REVISED -

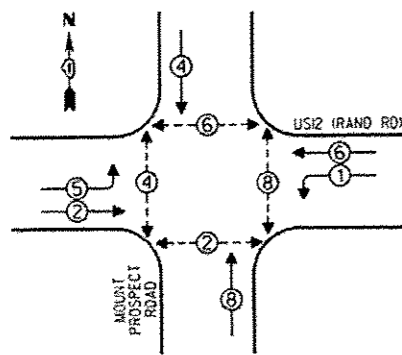
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE SHEET OF SHEETS STA. TO STA.

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

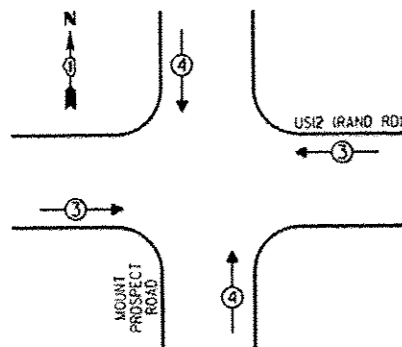
CONTROLLER SEQUENCE



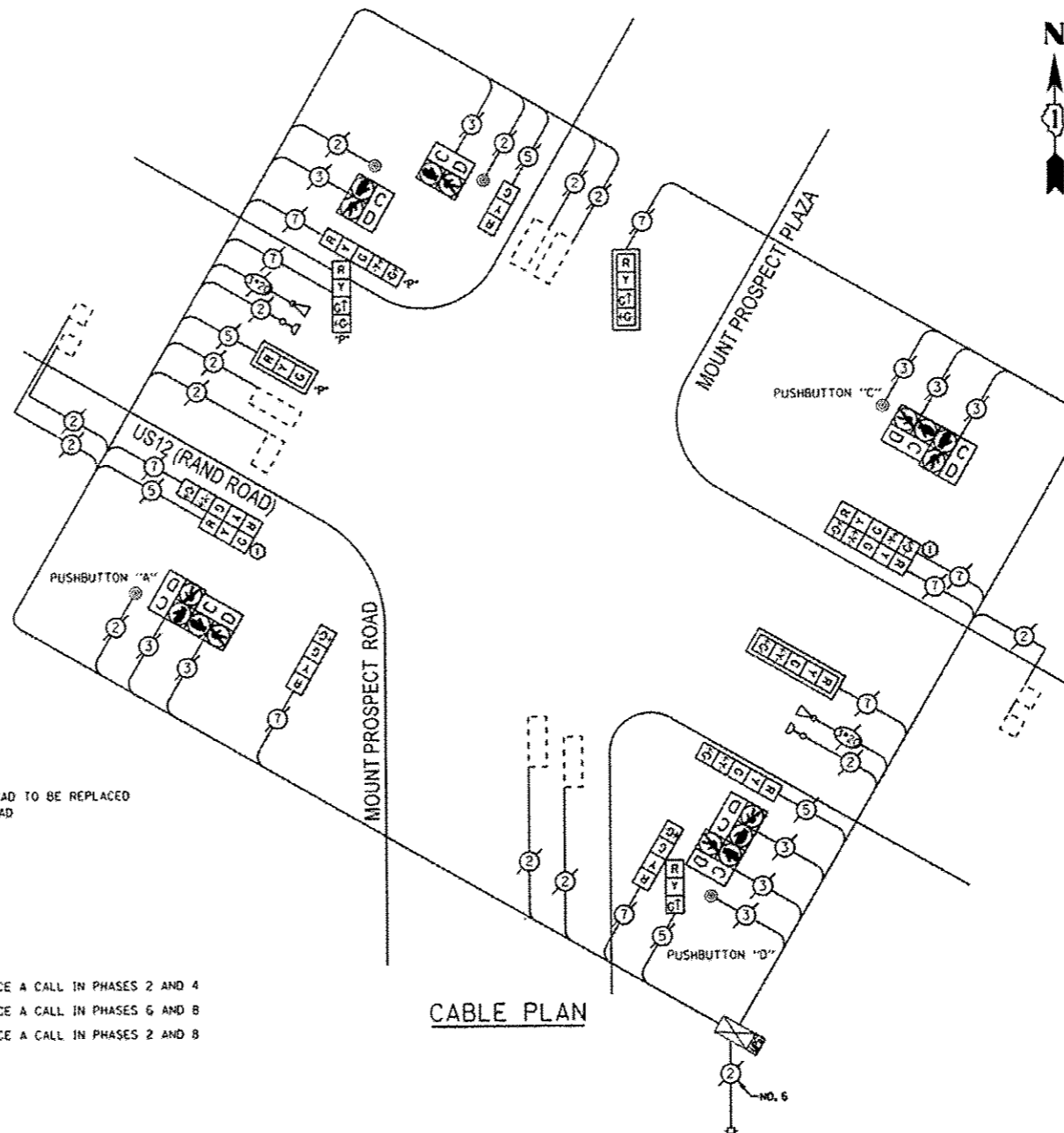
- LEGEND**
- SINGLE ENTRY PHASE
  - DUAL ENTRY PHASE
  - ◇ OVERLAP
  - PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	↔	↕	



CONSTRUCTION NOTE

- ① EXISTING PROGRAMMED HEAD TO BE REPLACED WITH STANDARD L.E.D. HEAD

NOTE:

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

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

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	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 4-SECTION
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-4 SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1-4 SECTION, 1-5 SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
3	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	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	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, BRACKET MOUNTED
1	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
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 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, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED
3	EACH	TRAFFIC SIGNAL BACKPLATE
5	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS (INCAND)	WATTAGE	LED % OPERATIONS	
SIGNAL (RED)	14	17	0.50	119.00
(YELLOW)	14	25	0.25	87.50
(GREEN)	14	15	0.25	52.50
ARROW	16	12	0.10	19.20
PEO. SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN LUMINAIRE		250	0.50	
VIDEO SYSTEM		150	1.00	
FLASHER			0.50	
ENERGY COSTS TO:				TOTAL = 578.20
VILLAGE OF MOUNT PROSPECT 50 SOUTH EMERSON STREET MOUNT PROSPECT, ILLINOIS 60056				
ENERGY SUPPLY - CONTACT: DAVE SCHACHT PHONE: (630) 437-2129 COMPANY: COMED				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

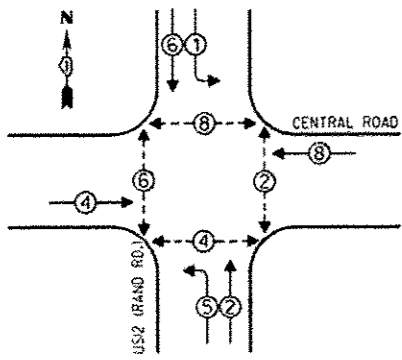
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE,  
US12 (RAND ROAD) AT MOUNT PROSPECT ROAD

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

SCALE: NONE SHEET OF SHEETS STA. TO STA.

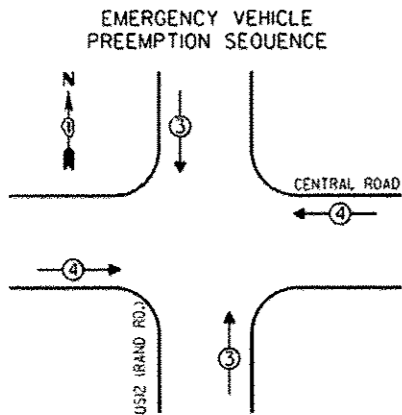
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		CHECKED -	REVISED -
		DATE -	REVISED -

CONTROLLER SEQUENCE

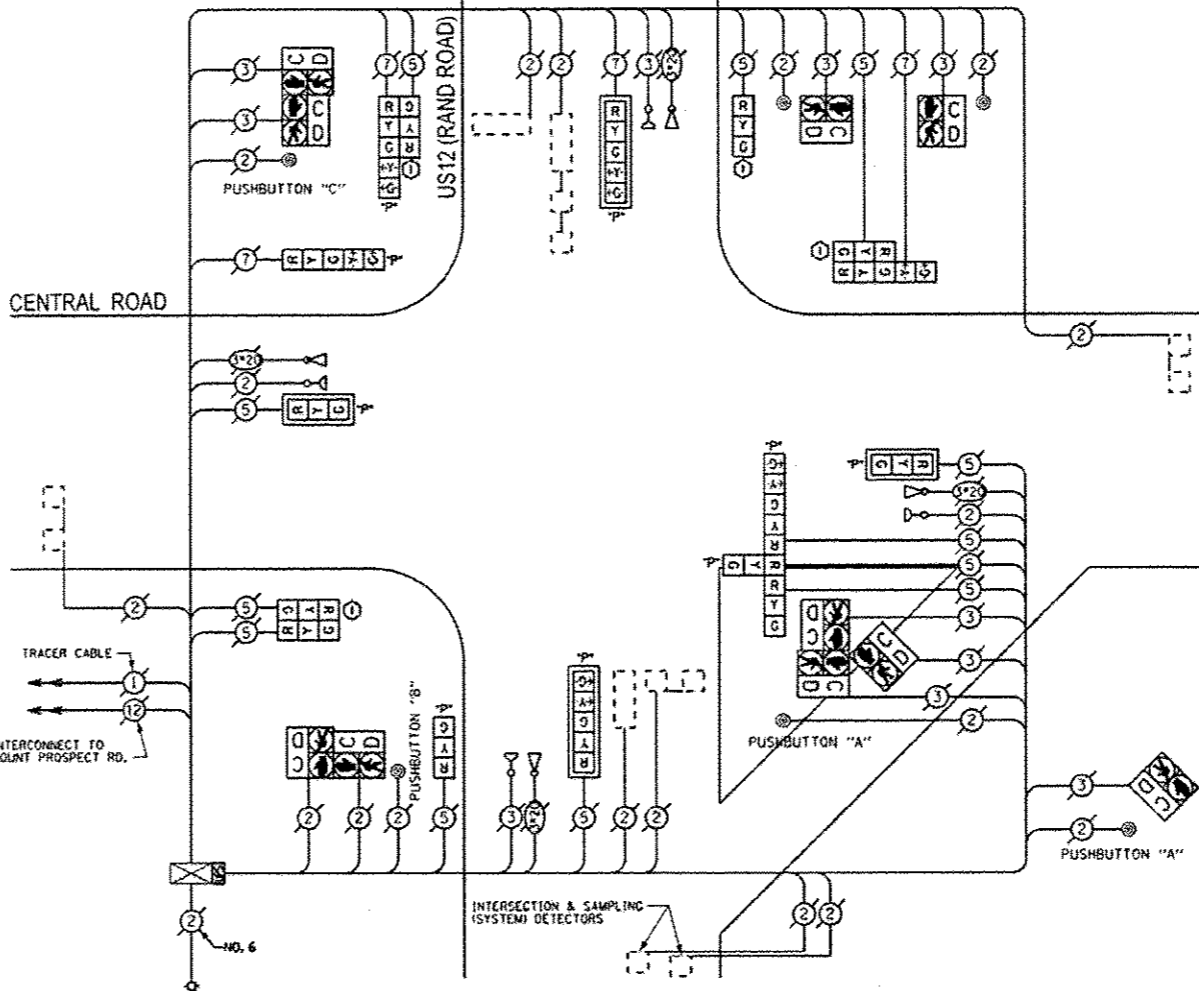


- LEGEND**
- SINGLE ENTRY PHASE
  - DUAL ENTRY PHASE
  - ◇ OVERLAP
  - ⊙ PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	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

CONSTRUCTION NOTE  
 ① EXISTING PROGRAMMED HEAD TO BE REPLACED WITH STANDARD L.E.D. HEAD

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

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

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

I.O.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS/INCAND	WATTAGE	LED % OPERATIONS	
SIGNAL (RED)	16	17	0.50	136.00
(YELLOW)	16	25	0.25	100.00
(GREEN)	16	15	0.25	60.00
ARROW	12	12	0.10	14.40
PED. SIGNAL	10	25	1.00	250.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN LUMINAIRE	250	25	0.05	
VIDEO SYSTEM	150	1.00		
FLASHER			0.50	
ENERGY COSTS TO:				TOTAL = 660.40

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

SCHEDULE OF QUANTITIES

QUAN.	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET 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	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM 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, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
4	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

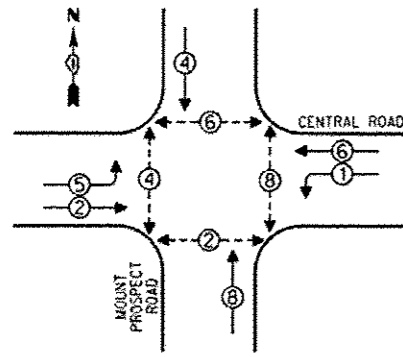
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#FILE#	#USER#	DRAWN	07-17-13
#MODEL#		CHECKED	
		DATE	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, US12 (RAND ROAD) AT CENTRAL ROAD			
SCALE: NONE	SHEET	OF	SHEETS
STA.		TO	STA.

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

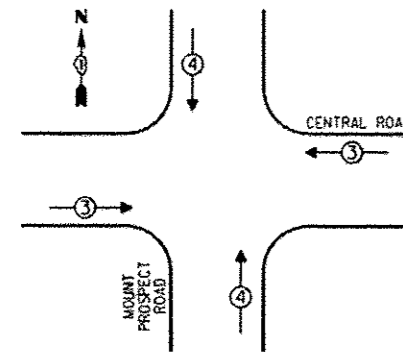
CONTROLLER SEQUENCE



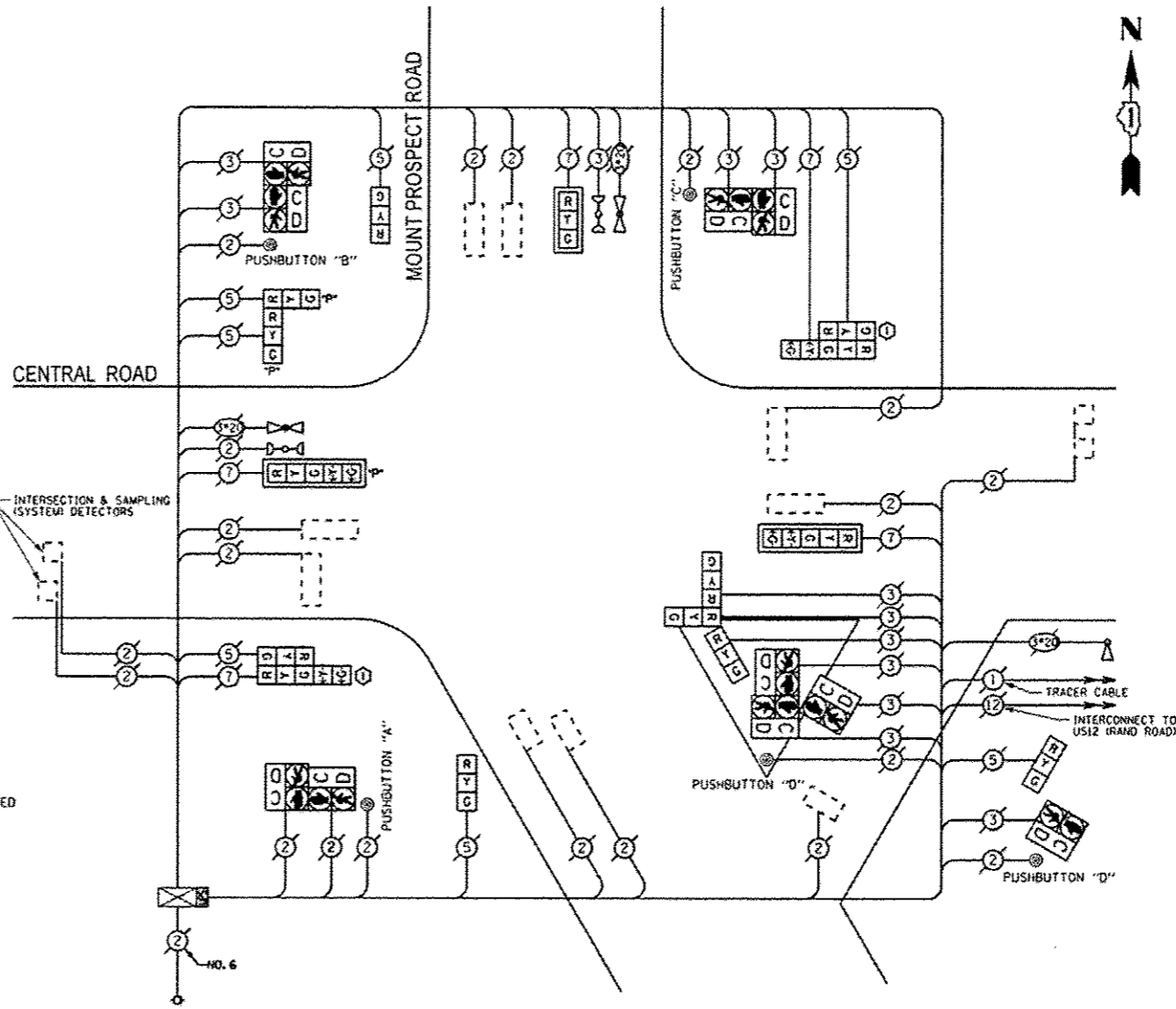
- LEGEND**
- SINGLE ENTRY PHASE
  - ◇ DUAL ENTRY PHASE
  - ◇ OVERLAP
  - ◇ PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CONSTRUCTION NOTE

- ① EXISTING PROGRAMMED HEAD TO BE REPLACED WITH STANDARD L.E.D. HEAD

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

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
2	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, 3-SECTION
5	EACH	PEDESTRIAN PUSHBUTTON

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

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

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

SCHEDULE OF QUANTITIES

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

I.O.O.F. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE (INCAND)	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	8	12	0.10	9.60
RED. SIGNAL CONTROLLER	10	25	1.00	250.00
ILLUM. SIGN	1	100	1.00	100.00
LUMINAIRE		25	0.05	
VIDEO SYSTEM		150	1.00	
FLASHER			0.50	
ENERGY COSTS TO:				TOTAL = 637.10

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

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

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, CENTRAL ROAD AT MOUNT PROSPECT ROAD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN	REVISED			VAR	2013-005-1	COOK	85	85H	
#MODEL#		CHECKED	REVISED			CONTRACT NO. 60W23					
		DATE	REVISED			ILLINOIS FED. AID PROJECT					

