

**SEQUENCE OF OPERATION**

MOVEMENT	5 → 1				← 6		5 → 2		2 → 6		4 ↑ 8		F		
PHASE	1 + 5				1 + 6		2 + 5		2 + 6		4 + 8		L		
INTERVAL	1	2	3	4	5	6	7	8	9	10A	10B	11	12A	12B	A
CHANGE TO		1+6	2+5	2+6		2+6		2+6		4+8			1+5	1+6	S
ILL. ROUTE 137 (BUCKLEY ROAD) FAR RIGHT MAST ARM SIGNAL	E/B	R	R	R	R	R	G	G	G	Y	R	R	R	R	
ILL. ROUTE 137 (BUCKLEY ROAD) END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	G	G	G	Y	R	R	R	R	
ILL. ROUTE 137 (BUCKLEY ROAD) FAR RIGHT MAST ARM SIGNAL	W/B	R	R	R	R	G	G	R	R	G	Y	R	R	R	
ILL. ROUTE 137 (BUCKLEY ROAD) END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	G	G	R	R	G	Y	R	R	R	
RAY STREET ALL SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	G	Y	R	
RAY STREET ALL SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	G	Y	R	

PHASE 2+6 SHALL BE PLACED ON RECALL.

**RAILROAD PREEMPTION SEQUENCE OF OPERATION**

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5	7	9	11	PREEMPTOR NUMBER 2							
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	2	1D	2	1F	2	1H	2	3	4	5		
ILL. ROUTE 137 (BUCKLEY ROAD) FAR RIGHT MAST ARM SIGNAL	E/B	R	R	Y	R	Y	R	R	R	R	R	R	Δ
ILL. ROUTE 137 (BUCKLEY ROAD) END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	Y	R	Y	R	R	R	R	R	R	Δ
ILL. ROUTE 137 (BUCKLEY ROAD) FAR RIGHT MAST ARM SIGNAL	W/B	R	G	R	R	G	G	R	R	G	Y	R	Δ
ILL. ROUTE 137 (BUCKLEY ROAD) END MAST ARM AND FAR LEFT SIGNALS	W/B	R	G	R	R	G	G	R	R	G	Y	R	Δ
RAY STREET ALL SIGNALS	N/B	R	R	R	R	R	Y	R	R	R	R	G	Δ
RAY STREET ALL SIGNALS	S/B	R	R	R	R	R	Y	R	R	R	R	G	Δ

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.

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

TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	10	135	17	0.50	85
(YELLOW)	10	135	25	0.25	63
(GREEN)	10	135	15	0.25	38
ARROW	8	135	12	0.10	10
PED. SIGNAL	--	90	25	1.00	--
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	--
VIDEO SYSTEM		150	-	1.00	--
TOTAL =					296

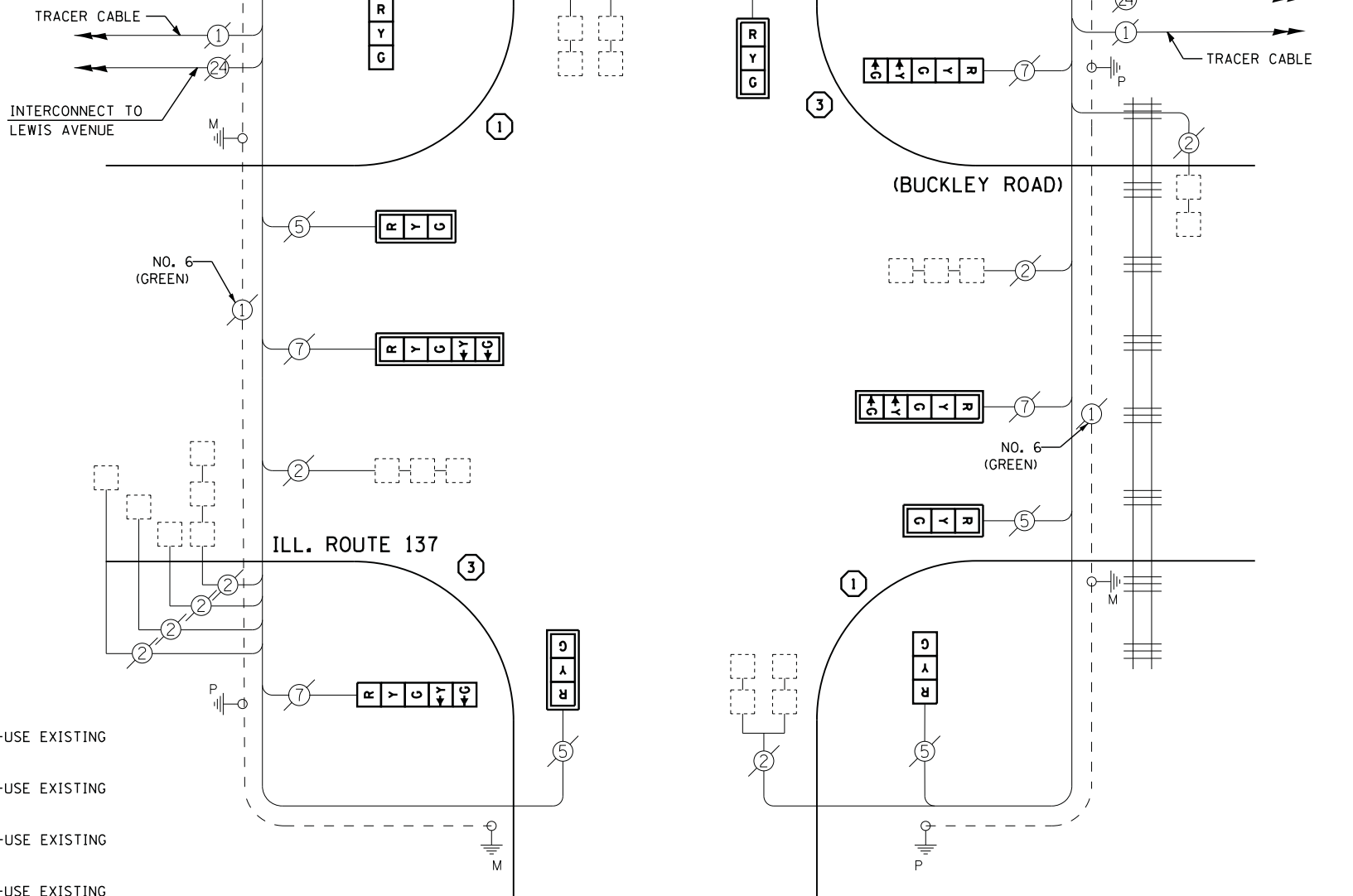
ENERGY COSTS- BILLED TO: IDOT DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096  
 CONTACT TERRI BLECK  
 PHONE 847-816-5239  
 COMMONWEALTH EDISON

FILE NAME =	USER NAME = \$USER\$	DESIGNED - DW	REVISED -
N:\Projects\312004\Design\CAD\Sheet Files\12-002 Sheets NE Lake Co\07175-CAB.LAKE.dgn		DRAWN - JDH	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED - KMM	REVISED -
	PLOT DATE = 5/16/2012	DATE -	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**ILL RTE 137 (BUCKLEY RD) AT RAY STREET /FORRESTAL VILLAGE SCHEDULE OF QUANTITIES, CABLE PLAN, SEQUENCE OF OPERATION AND RAILROAD PREEMPTION SEQUENCE OF OPERATION**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-004 I	LAKE	97	50
CONTRACT NO. 60T42				
ILLINOIS FED. AID PROJECT				



**CABLE PLAN**

- ① REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- ② REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- ③ REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- ④ REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

**SCHEDULE OF QUANTITIES**

QUANTITY	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, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

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

6	EACH	SIGNAL HEAD, 3 - SECTION
4	EACH	SIGNAL HEAD, 5 - SECTION
6	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	SIGNAL POST

TS# 7175 NORTH CHICAGO