

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
HANDHOLE	EACH	8
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	10
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	5
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGN PANEL - TYPE 1	SO M	3.21
CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	284
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	29
CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	METER	25
CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL	METER	91
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	86
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	338
DETECTOR LOOP, PREFORMED	METER	216
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	263
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	706
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	307
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	628
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	688
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	METER	12
TRAFFIC SIGNAL POST, GALVANIZED STEEL 3.0 METER	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 12.19 METER	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 12.80 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 14.63 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	2.4
CONCRETE FOUNDATION, TYPE D	METER	1.2
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	18.4
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	METER	184
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C, TWISTED, SHIELDED	METER	222
SERVICE INSTALLATION, POLE MOUNT	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	2
PAINT NEW MAST ARM POLE, 12.19 METERS AND OVER	EACH	4
PAINT NEW TRAFFIC SIGNAL POST	EACH	2
FLASHING BEACON INSTALLATION	EACH	2

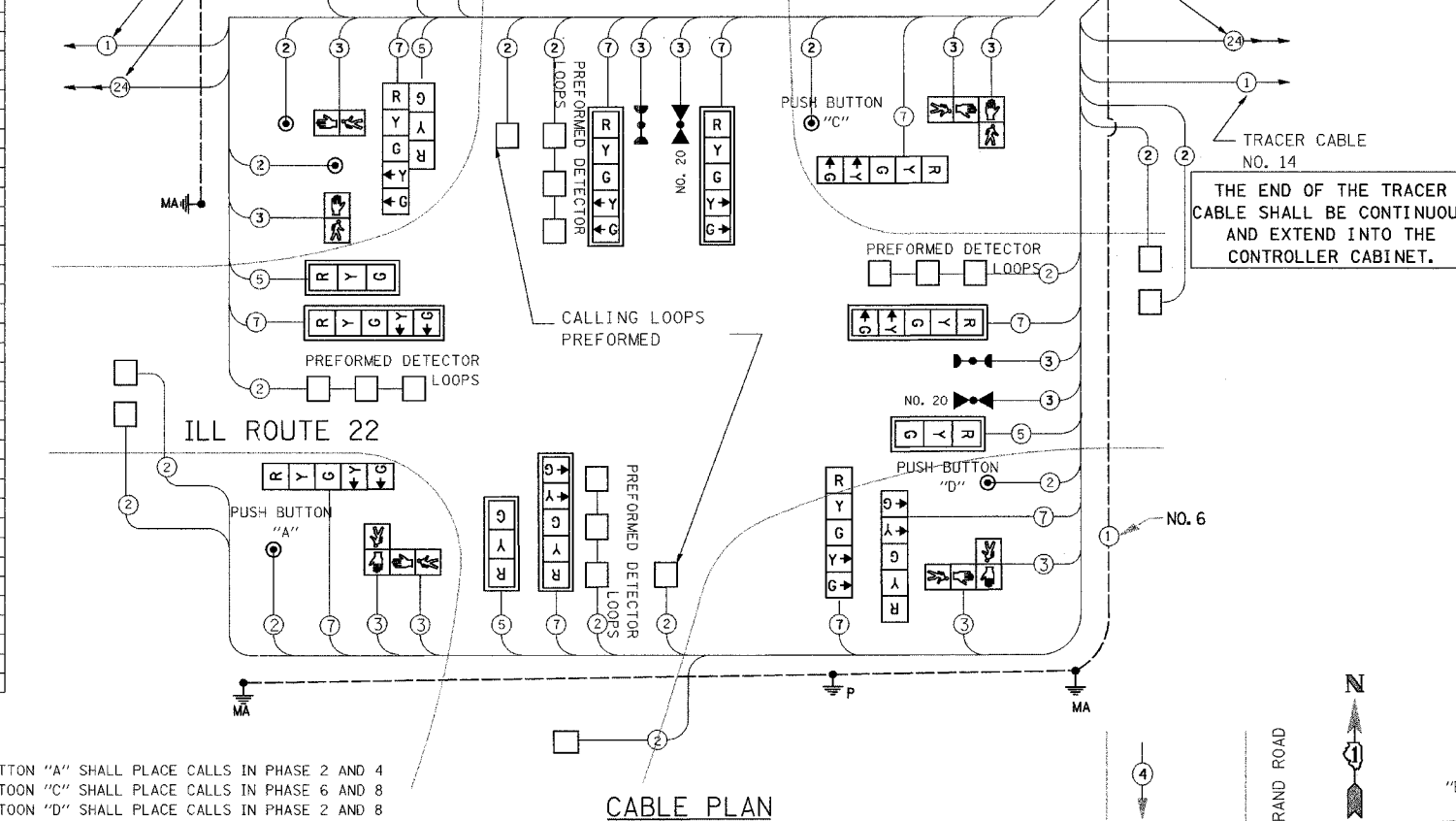
* 100% COST TO THE VILLAGE OF LAKE ZURICH

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	*OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	18	135	12	0.10	21.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	580.6
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096 CONTACT: TERI BLACK PHONE: (847) 816-5239 COMPANY: COM. EDISON					

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'=(6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

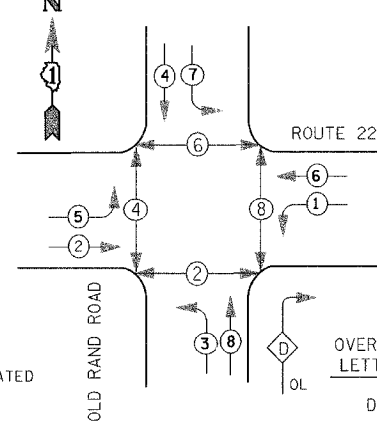
PROPOSED INTERCONNECT TO MAIN STREET WEST
TRACER CABLE NO. 14



CABLE PLAN

PUSH BUTTON "A" SHALL PLACE CALLS IN PHASE 2 AND 4
PUSH BUTOON "C" SHALL PLACE CALLS IN PHASE 6 AND 8
PUSH BUTOON "D" SHALL PLACE CALLS IN PHASE 2 AND 8

CONTROLLER SEQUENCE



LEGEND

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

PHASE DESIGNATION DIAGRAM

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

OVERLAP PERMISSIVE PROTECTED
LETTER PHASE PHASE
D = 4 + 5

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19R-1	LAKE	800	522
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60997				

CABLE PLAN LEGEND

- EXISTING PROPOSED
- 8" (200mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - CONTROLLER CABINET
 - SERVICE INSTALLATION
 - TELEPHONE CONNECTION
 - MAGNETIC DETECTOR
 - EMERGENCY VEHICLE LIGHT DETECTOR
 - CONFIRMATION BEACON
 - PUSHBUTTON DETECTOR
 - VEHICLE DETECTOR, INDUCTION LOOP
 - 2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
 - VIDEO DETECTION
 - SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
 - RAILROAD CONTROL CABINET
 - ILLUMINATED SIGN, L.E.D. "NO LEFT TURN"
 - ILLUMINATED SIGN, L.E.D. "NO RIGHT TURN"
 - GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
 - GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
 - GROUND ROD AT ELECTRIC SERVICE INSTALLATION
 - GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
 - FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F

REVISIONS	
NAME	DATE
Rev. Handhole & Post Quantities	11/24/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL RTE 22 & OLD RAND ROAD
DRAWN BY VAP
DESIGNED BY RAM
CHECKED BY DDL
SCALE : N.T.S.
DATE : 07/21/04