

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	8
LIGHT DETECTOR	EACH	1
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	3
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	6
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
SIGN PANEL - TYPE 1	SQ M	1.53
SIGN PANEL - TYPE 2	SQ M	2.32
CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	153
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	19
CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	METER	22
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	90
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	190
DETECTOR LOOP, PREFORMED	METER	263
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	201
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	510
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	277
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	541
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	540
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	METER	16
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	1
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, 16.46 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	1.2
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	168
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C, TWISTED, SHIELDED	METER	216
SERVICE INSTALLATION, POLE MOUNT	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
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	4
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	1

* 100% COST TO THE VILLAGE OF LAKE ZURICH

L.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
(YELLOW)	12	135	25	0.25	75.0
(GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER		100	100	1.00	100.0
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO: TOTAL =					441.2

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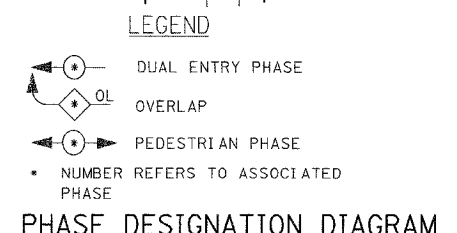
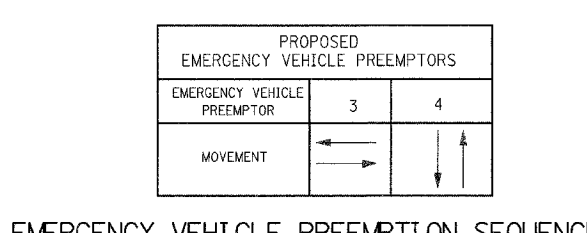
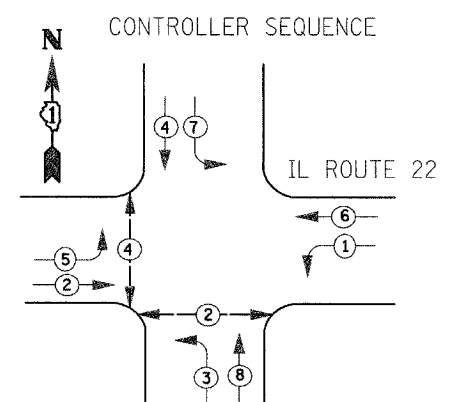
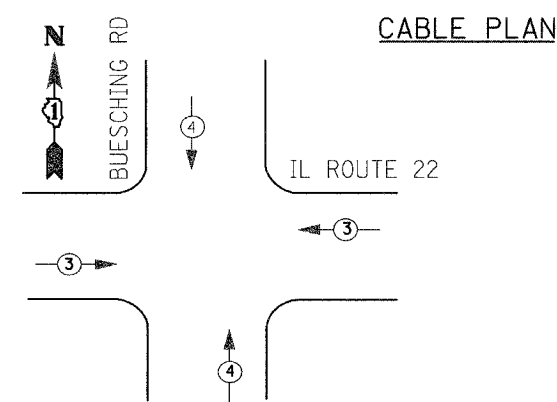
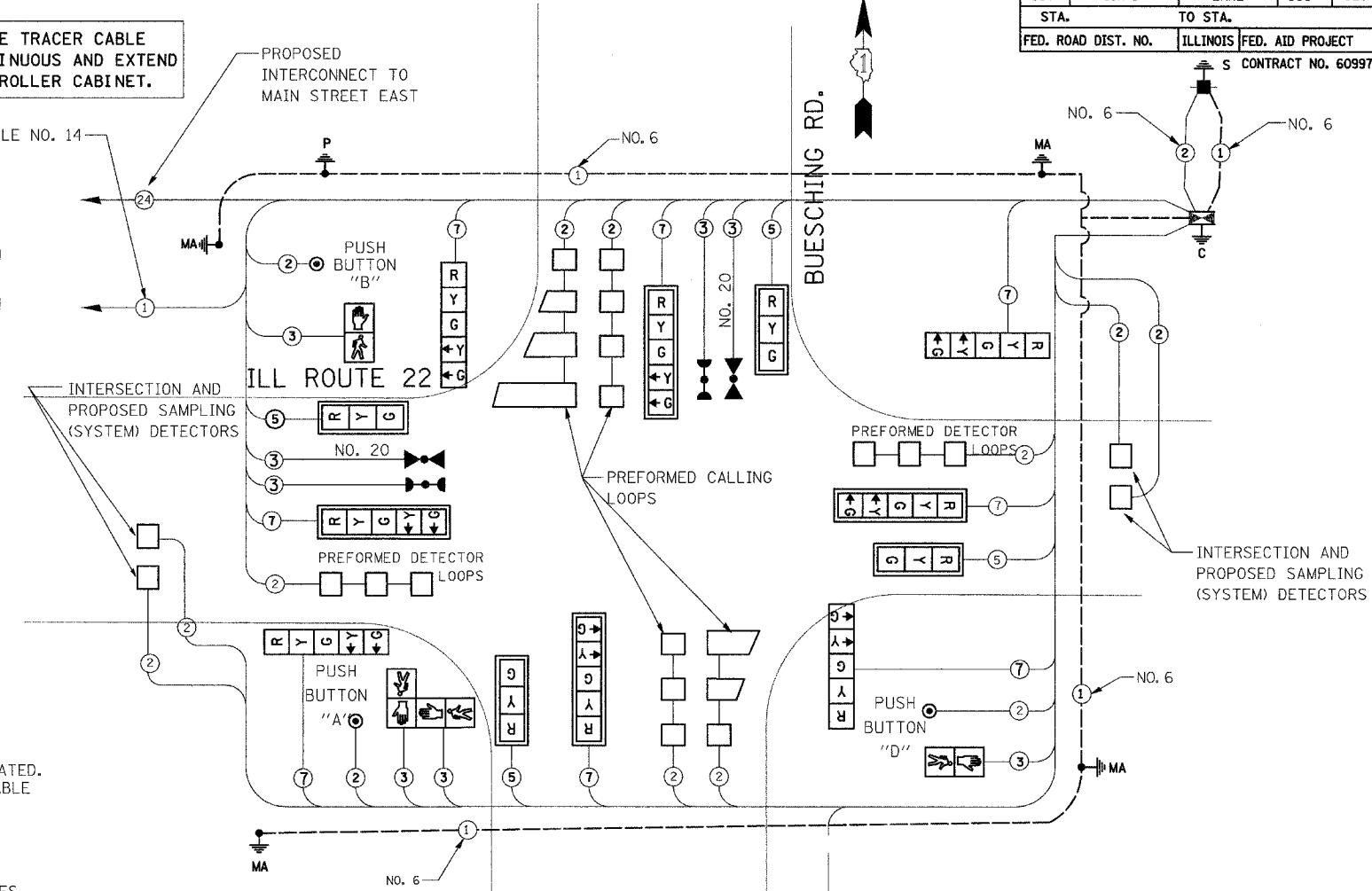
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)=
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 6+8

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

CABLE PLAN LEGEND

- EXISTING PROPOSED
- 8" (200mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) TRAFFIC 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
 - VIDEO DETECTION
 - 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. 24 1/25 MM12F SM12F



PHASE DESIGNATION DIAGRAM

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
IL RTE 22 & BUESCHING RD

SCALE: N.T.S.
DATE: 07/21/04

DESIGNED BY VAP
DESIGNED BY RAM
CHECKED BY DDL