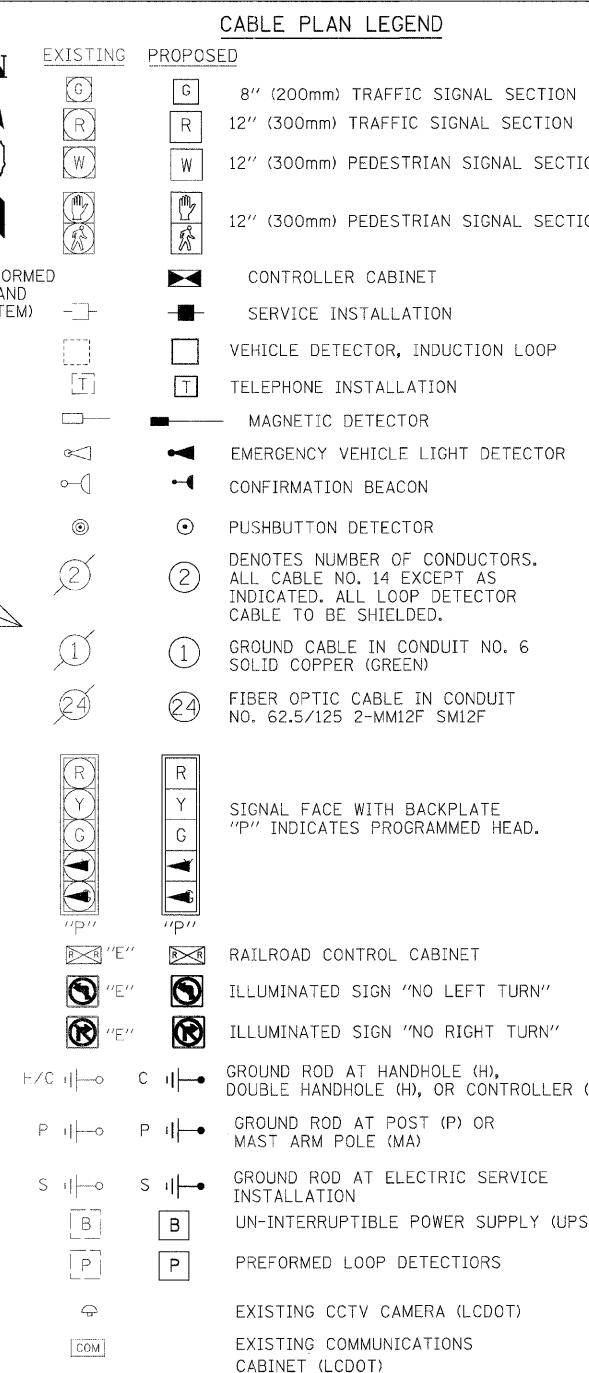
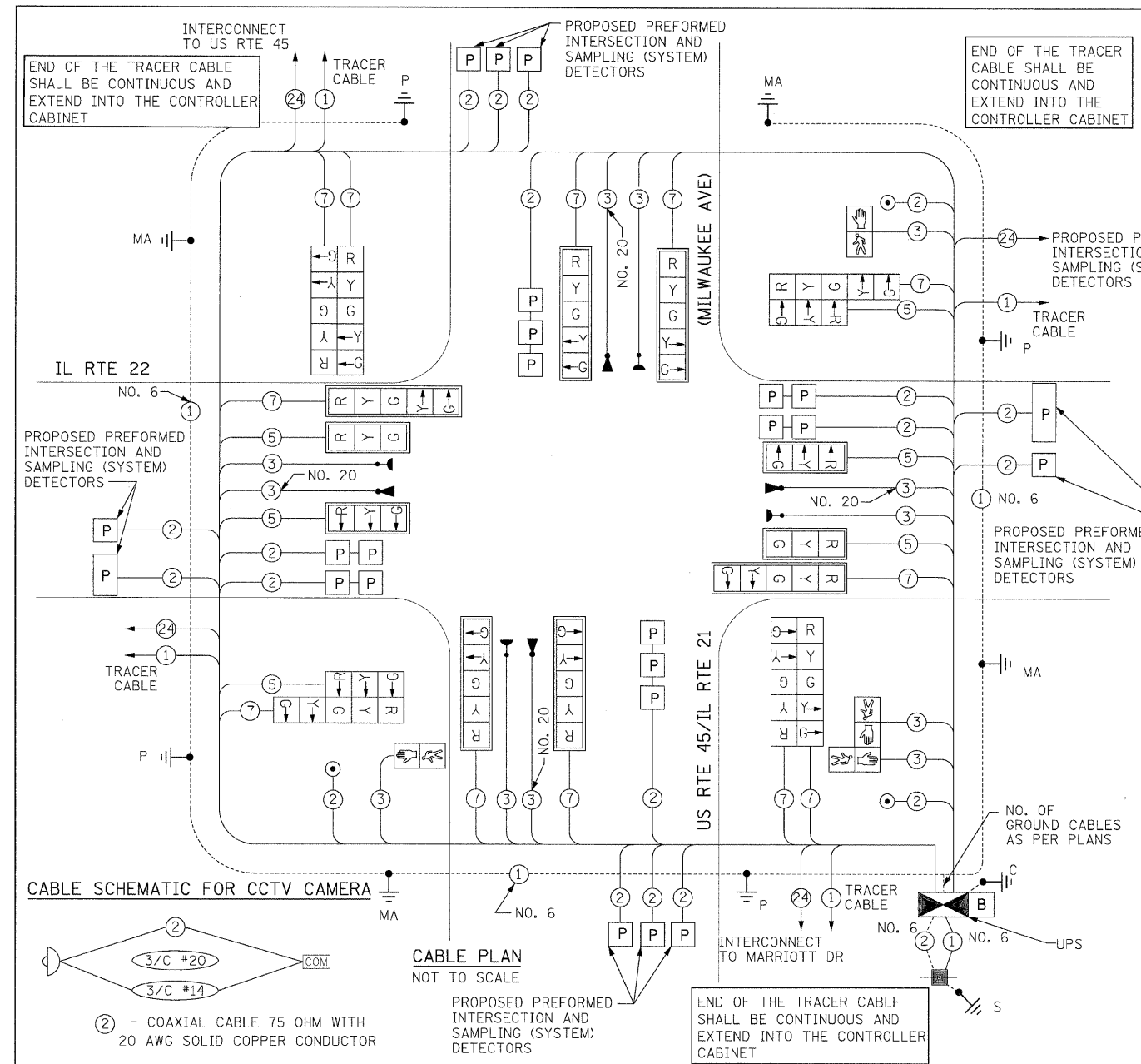


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-6	LAKE	149	72
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.				

SCHEDULE OF QUANTITIES

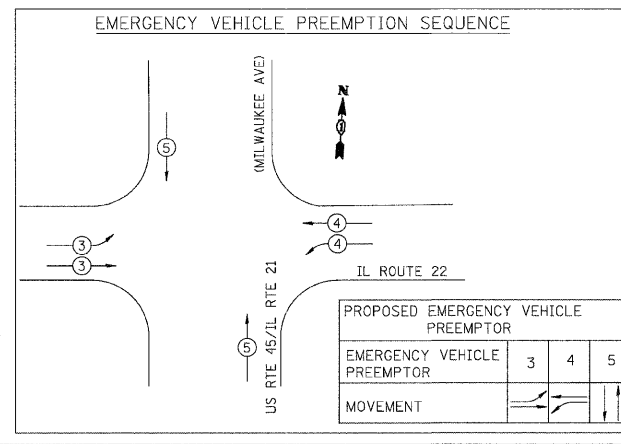
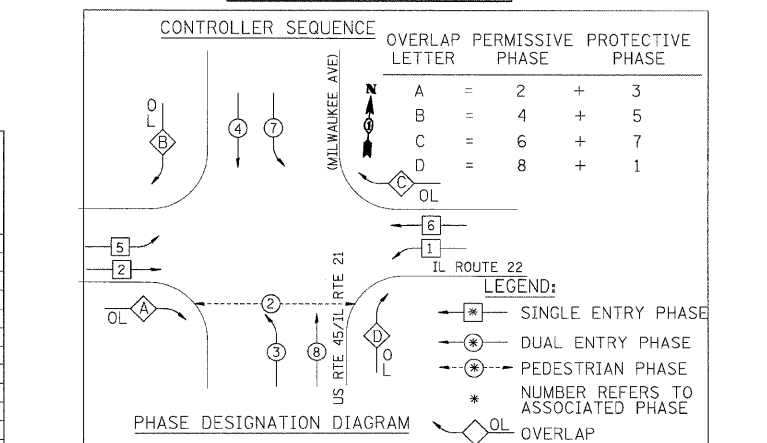
ITEM	UNIT	QNTY.
HANDHOLE	EACH	9
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 2-FACE, 5-SECTION BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	16
LIGHT DETECTOR	EACH	4
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	12
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
SIGN PANEL- TYPE 1	SQ M	4.92
CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	320
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	38
CONDUIT IN TRENCH, 75MM DIA., GALVANIZED STEEL	METER	6
CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	METER	34
CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL	METER	41
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	131
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	423
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	96
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	482
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	525
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	1017
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	1740
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	28
CONCRETE FOUNDATION, TYPE A	METER	2.8
CONCRETE FOUNDATION, TYPE D	METER	4.4
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	19.6
PREFORMED DETECTOR LOOP	METER	249
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	METER	283
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	METER	332
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYS - LEVEL 1	L SUM	1
UN-INTERRUPTIBLE POWER SUPPLY	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER (SPECIAL)	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 12.19 METER (SPECIAL)	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 14.63 METER (SPECIAL)	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 15.85 METER (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM AND POLE, 14.63 METER (SPECIAL)	EACH	1
RELOCATE EXISTING SURVEILLANCE CAMERA AND CABINET	EACH	2



CABLE SCHEMATIC FOR CCTV CAMERA

② - COAXIAL CABLE 75 OHM WITH 20 AWG SOLID COPPER CONDUCTOR

1) CONTRACTOR TO INSTALL POWER CABLES AND SIGNAL CABLES IN SEPARATE CONDUITS WHERE POSSIBLE.



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

NO ROADWAY CONSTRUCTION WILL COMMENCE UNTIL THE TEMPORARY SIGNALS WITH TEMPORARY RADIO INTERCONNECT ARE CONSTRUCTED, INSPECTED AND TIMINGS ACCEPTED BY THE R-1 AREA TRAFFIC ENGINEER.

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

TYPE	NO. LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATION	TOTAL VOLTAGE
SIGNAL (RED)	18	135	17	0.50	153
(YELLOW)	18	135	25	0.25	112.5
(GREEN)	18	135	15	0.25	67.5
ARROW	8	135	12	0.10	28.8
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	84	-	0.05	-
FLASHER	-	-	-	0.50	-
TOTAL =					561.8

ENERGY COST TO: Illinois Department of Transportation
 Division of Highways / District 1
 201 West Center Ct., Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: CONTACT: Mr. Varughese Samuel
 PHONE: 847-816-5291
 COMPANY: ComEd

FOUNDATION (DEPTH) (FT.) (m)	CABLE SLACK (FT.) (m)	CABLE SLACK (FT.) (m)	CABLE SLACK (FT.) (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)
E - M. ARM POLE	4 (1.2)	SIGNAL POST	2 (0.6)
2" (50mm)	10 (3.0)	CONTROLLER CAB.	1 (0.3)
3" (75mm)	15 (4.6)	FIBER OPTIC	13 (4.0)
		ELECTRIC SERVICE	1 (0.3)
		GROUND CABLE	1 (0.3)
		POST MOUNTED	6 (1.8)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM

IL ROUTE 22 AND US RTE 45/IL RTE 21

SCALE: NONE
 DATE: 1/28/2009

DRAWN BY: RV
 DESIGNED BY: JY/AS
 CHECKED BY: AZ/MSA

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 2/6/2009 10:44:47 AM
PATRICK ENGINEERING INC.
 LISLE, ILLINOIS