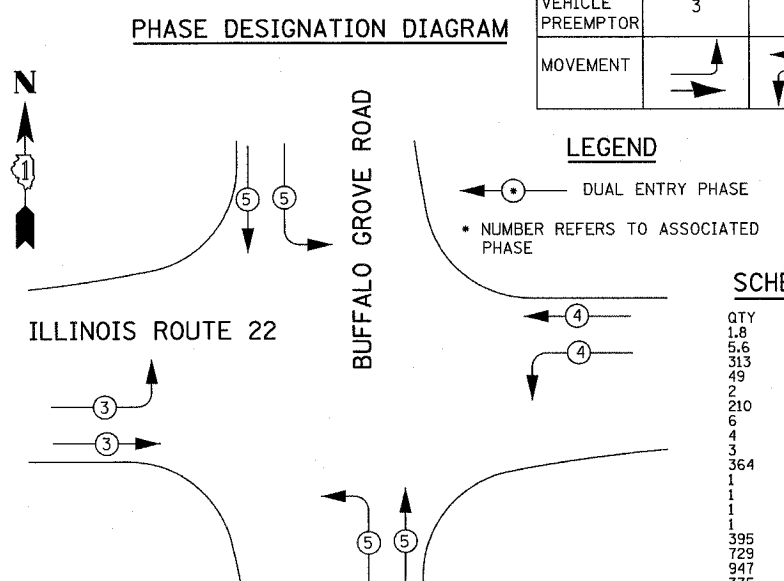
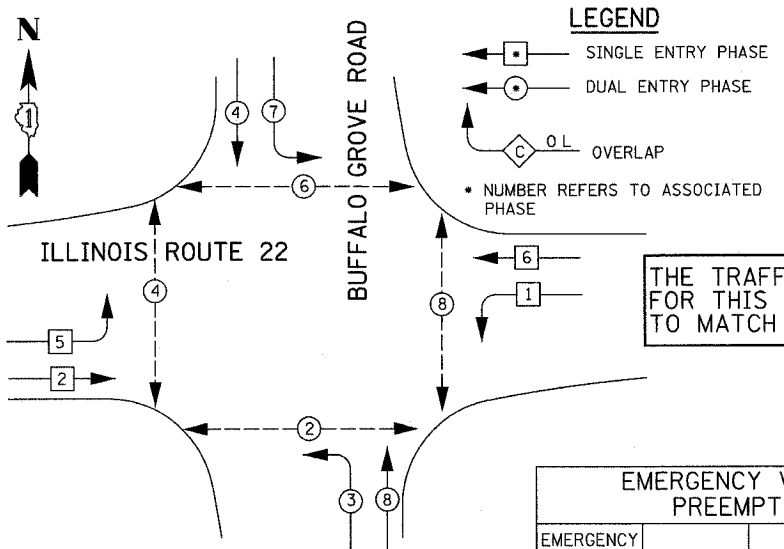


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
337	20R-5	LAKE	562	342
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
0-91-552-99		60881		



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

EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM DESCRIPTION
1.8	SO M	SIGN PANEL - TYPE 1
5.6	SO M	SIGN PANEL - TYPE 2
313	METER	CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL
49	METER	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL
2	METER	CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL
210	METER	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL
6	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
3	EACH	DOUBLE HANDHOLE
364	METER	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER IN TYPE V CABINET, SPECIAL
1	EACH	TRANSCEIVER
1	EACH	MASTER CONTROLLER (SPECIAL)
1	EACH	TRANSCEIVER - FIBER OPTIC
395	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 2C
729	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 3C
947	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5C
375	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 7C
1575	METER	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO.14, 1 PAIR
10	METER	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 4.25 METER
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 4.85 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 10.36 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 12.80 METER
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 16.46 METER
4.8	METER	CONCRETE FOUNDATION, TYPE A
1.2	METER	CONCRETE FOUNDATION, TYPE D
4.1	METER	CONCRETE FOUNDATION, TYPE E, 750MM DIAMETER
13.2	METER	CONCRETE FOUNDATION, TYPE E, 900MM DIAMETER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED
13	EACH	INDUCTIVE LOOP DETECTOR
4	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	SERVICE INSTALLATION, POLE MOUNT
415	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/2 (GREEN)
318	METER	ELECTRIC CABLE IN CONDUIT, NO. 20, 3/2, TWISTED, SHIELDED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5-SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED
302	METER	PREFORMED DETECTOR LOOP
9	EACH	REMOVE EXISTING HANDHOLE
11	EACH	REMOVE EXISTING CONCRETE FOUNDATION

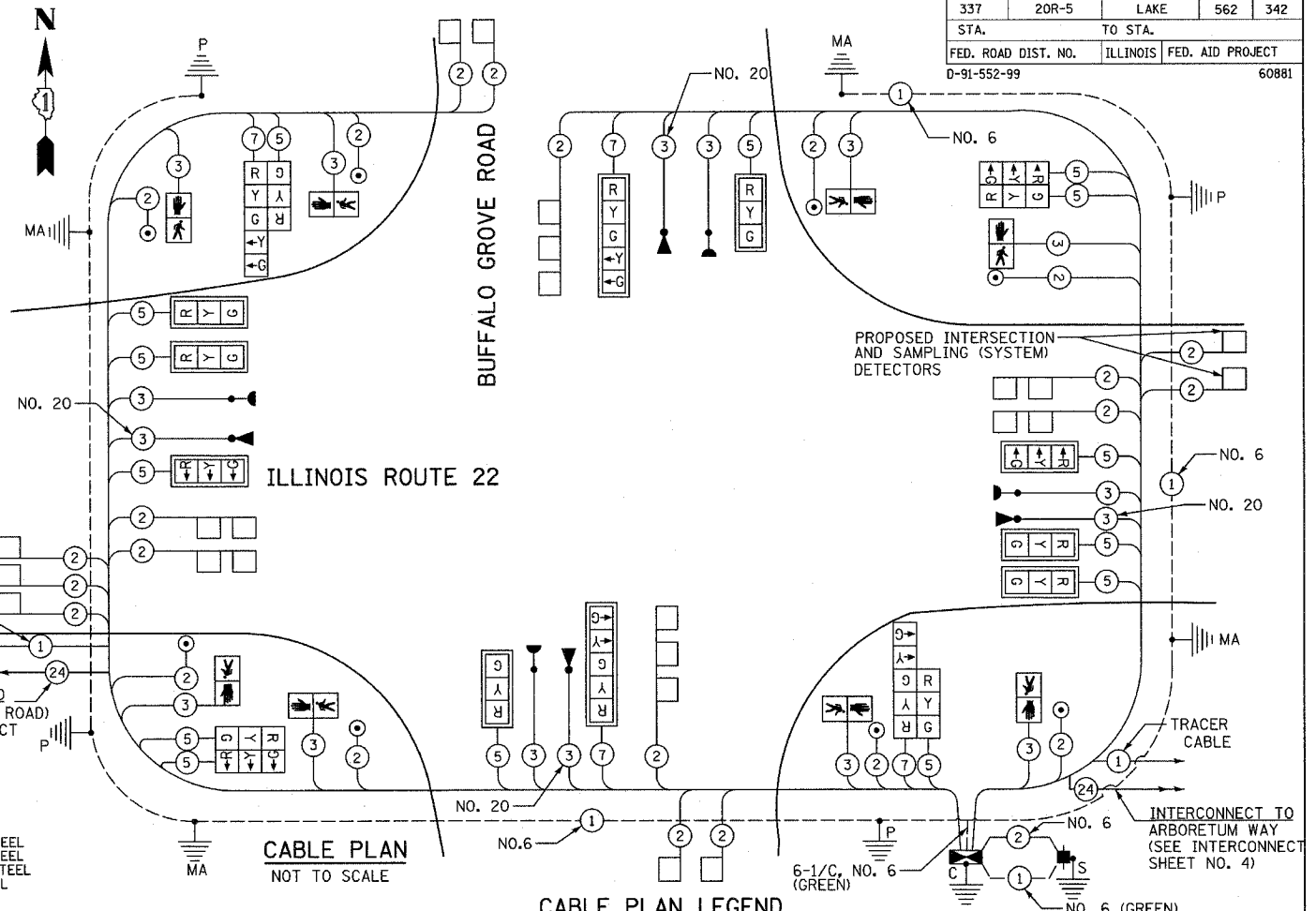
\*NOTE: 100% OF COST TO THE VILLAGE OF BUFFALO GROVE.

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
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	9.6
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	
FLASHER				0.05	
ENERGY COSTS TO:				TOTAL =	642.6

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DOTTI PROSEN  
PHONE: (847) 816-5529  
COMPANY: COMED

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 = (6mH - 0.6m)
E - MAST ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	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)



EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 2-MM12F & SM12F

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
SCHEDULE OF QUANTITIES  
CABLE PLAN AND PHASE  
DESIGNATION DIAGRAM  
ILLINOIS ROUTE 22 AT BUFFALO GROVE ROAD  
SCALE: NONE  
DATE: 03-22-2004  
DRAWN BY: AMB  
DESIGNED BY: AMB  
CHECKED BY: JPS

DATE	
BY	
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	