

SCHEDULE OF QUANTITIES

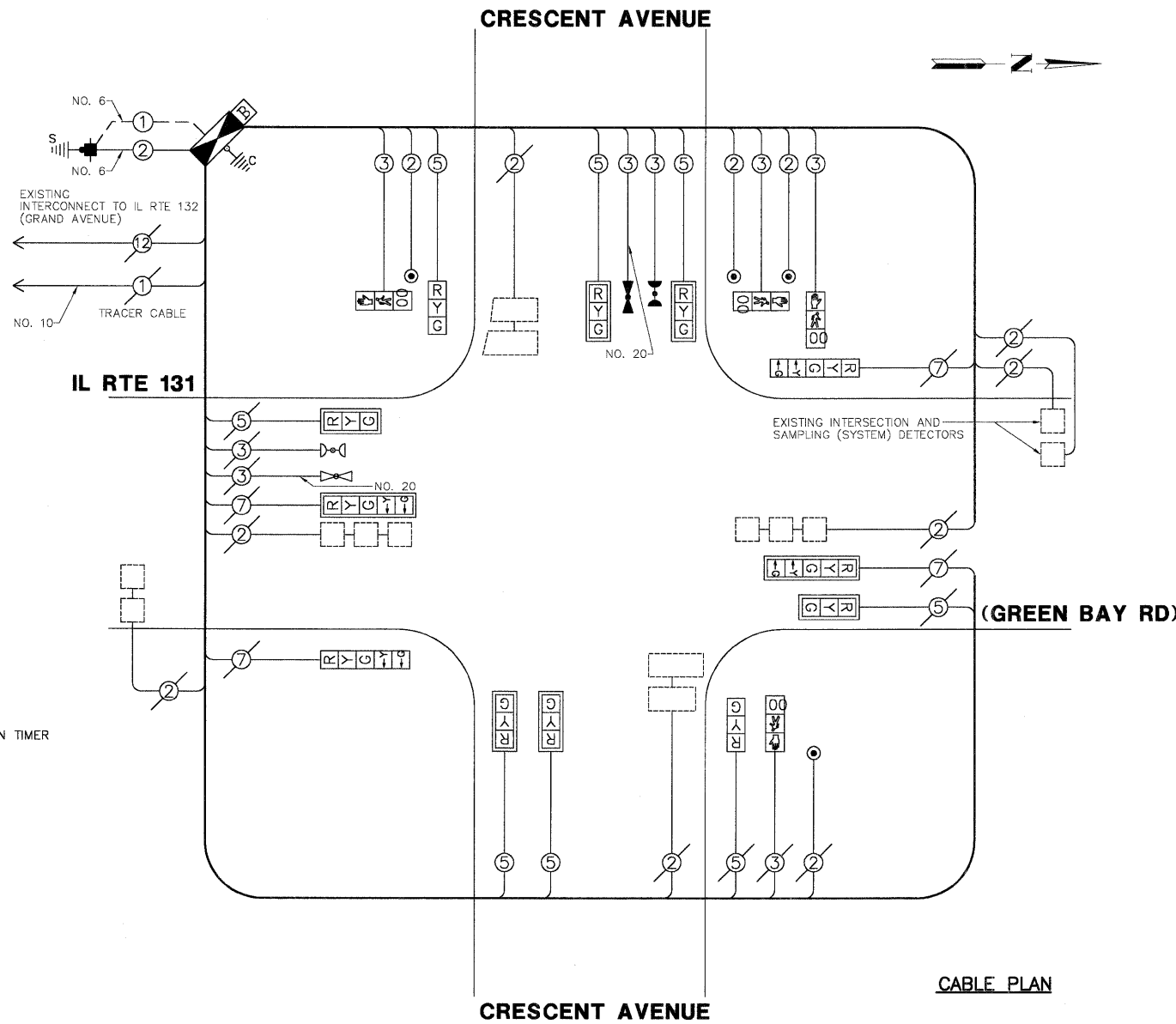
ILLINOIS ROUTE 131 (GREEN BAY ROAD) AND CRESCENT AVENUE

QUANT.	UNIT	ITEM
1.	350	SQ.FT. PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
2.	48	SQ.FT. DETECTABLE WARNINGS
3.	50	FOOT COMBINATION CURB AND GUTTER REMOVAL
4.	150	SQ.FT. SIDEWALK REMOVAL
5.	50	FOOT COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24
6.	0.20	L.SUM TRAFFIC CONTROL AND PROTECTION, STANDARD 701606-06
7.	0.20	L.SUM TRAFFIC CONTROL AND PROTECTION, STANDARD 701701-06
8.	27.5	SQ.FT. SIGN PANEL - TYPE 2
9.	220	FOOT THERMOPLASTIC PAVEMENT MARKING - LINE 6"
10.	55	FOOT THERMOPLASTIC PAVEMENT MARKING - LINE 24"
11.	120	SQ.FT. PAVEMENT MARKING REMOVAL
12.	80	FOOT CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
13.	80	FOOT TRENCH AND BACKFILL FOR ELECTRICAL WORK
14.	1	EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
15.	1	EACH FULL-ACTUATED CONTROLLER
16.	177	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C
*17.	195	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C
18.	179	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C
19.	812	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C
20.	79	FOOT ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
21.	79	FOOT ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
*22.	179	FOOT ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED
23.	2	EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT
24.	2	EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT
25.	1	EACH STEEL MAST ARM ASSEMBLY AND POLE, 28 FT
26.	1	EACH STEEL MAST ARM ASSEMBLY AND POLE, 30 FT
27.	4	FOOT CONCRETE FOUNDATION, TYPE A
28.	23.5	FOOT CONCRETE FOUNDATION, TYPE E, 30" DIAMETER
29.	2	EACH DRILL EXISTING HANDHOLE
30.	6	EACH SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
31.	2	EACH SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED
32.	2	EACH SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED
33.	2	EACH SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
34.	2	EACH PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED W/ COUNTDOWN TIMER
35.	8	EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM
*36.	1	EACH LIGHT DETECTOR
37.	2	EACH PEDESTRIAN PUSH-BUTTON
38.	375	FOOT REMOVE ELECTRIC CABLE FROM CONDUIT
39.	1	EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
40.	2	EACH REMOVE EXISTING CONCRETE FOUNDATION
41.	1	EACH SERVICE INSTALLATION - POLE MOUNTED
42.	1	EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)

*100% COST TO THE CITY OF WAUKEGAN

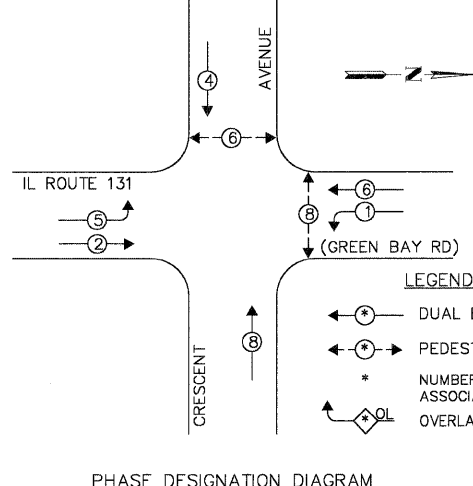
CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM24F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN "NO LEFT TURN"
		ILLUMINATED SIGN "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
		UNINTERRUPTIBLE POWER SUPPLY (UPS)



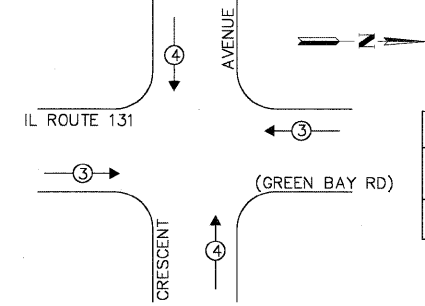
CABLE PLAN

PROPOSED CONTROLLER SEQUENCE



LEGEND:
 DUAL ENTRY PHASE
 PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE
 OVERLAP

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

TYPE	NO LAMPS	WATTAGE INCAND. L.E.D.	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	102.0
SIGNAL (YELLOW)	12	135	25	75.0
SIGNAL (GREEN)	12	135	15	45.0
ARROW	8	135	12	9.6
PED.SIGNAL	4	90	25	100.0
CONTROLLER	1	100	1.00	100.0
LUMINAIRE	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	64	0.50	-
VIDEO SYSTEM	-	150	1.00	-
BATTERY BACKUP	1	25	1.00	25.0
TOTAL =				456.6

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP" COMPLIANT.

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
TYPE D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'±1.2'
TYPE E - M.ARM POLE	-	SIGNAL POST	2	BRACKET MOUNTED	13
30" (16'-30")	10	CONTROLLER CAB.	1	PED. PUSHBUTTON	4
30" (30'-40")	13.5	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
36" (40'-48")	15	ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
36" (50'-55")	15	GROUND CABLE	1	POST MOUNTED	6

ENERGY COSTS - BILLED TO: CITY OF WAUKEGAN
 (ADDRESS) 100 N. M.L.K. JR. AVENUE
 (ADDRESS) WAUKEGAN, IL
 ENERGY SUPPLY - CONTACT: NEW BUSINESS
 PHONE: 1-866-639-3552
 COMPANY: COMED