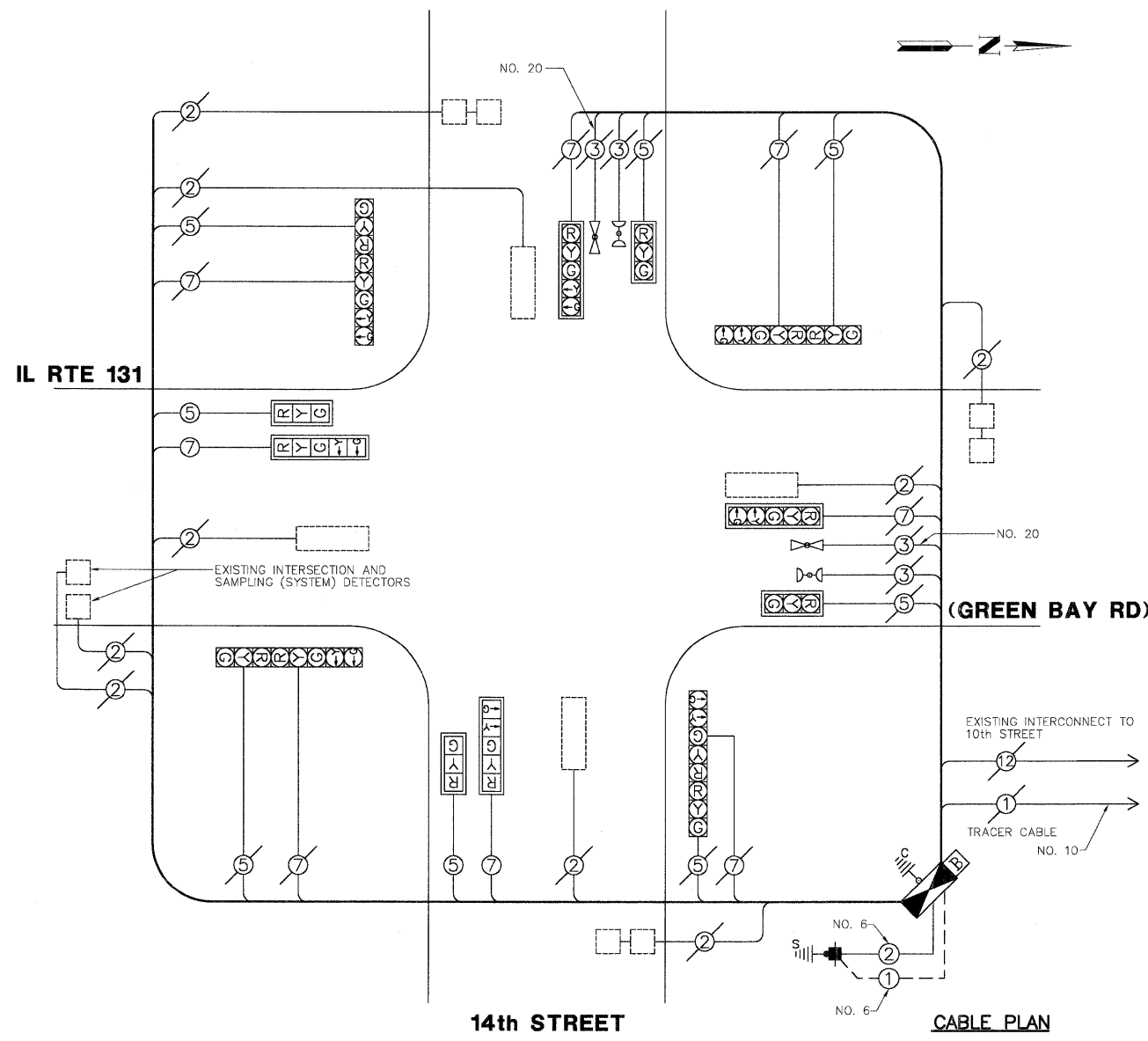


SCHEDULE OF QUANTITIES

ILLINOIS ROUTE 131 (GREEN BAY ROAD) AND 14th STREET/PULASKI MEMORIAL DRIVE

QUANT.	UNIT	ITEM
1.	0.20	L.SUM TRAFFIC CONTROL AND PROTECTION, STANDARD 701606-06
2.	0.20	L.SUM TRAFFIC CONTROL AND PROTECTION, STANDARD 701701-06
3.	65	FOOT CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
4.	65	FOOT TRENCH AND BACKFILL FOR ELECTRICAL WORK
5.	1	EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6.	1	EACH FULL-ACTUATED CONTROLLER
7.	524	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C
8.	524	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C
9.	19	FOOT ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
10.	19	FOOT ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
11.	3	EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT
12.	2	EACH STEEL MAST ARM ASSEMBLY AND POLE, 24 FT
13.	20	FOOT CONCRETE FOUNDATION, TYPE E, 30" DIAMETER
14.	2	EACH DRILL EXISTING HANDHOLE
15.	2	EACH SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
16.	2	EACH SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
17.	4	EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM
18.	6	EACH RELOCATE EXISTING SIGNAL HEAD
19.	505	FOOT REMOVE ELECTRIC CABLE FROM CONDUIT
20.	1	EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
21.	2	EACH REMOVE EXISTING CONCRETE FOUNDATION
22.	1	EACH SERVICE INSTALLATION - POLE MOUNTED
23.	1	EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)

PULASKI MEMORIAL DR.



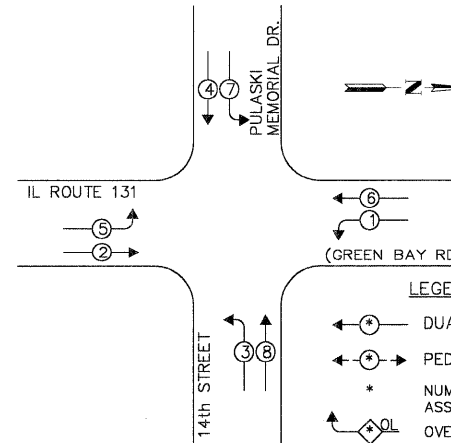
CABLE PLAN LEGEND

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 (HH), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		UNINTERRUPTIBLE POWER SUPPLY (UPS)

14th STREET

CABLE PLAN

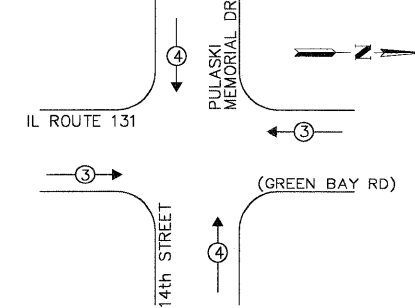
EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

	DUAL ENTRY PHASE
	PEDESTRIAN PHASE
	NUMBER REFERS TO ASSOCIATED PHASE
	OVERLAP

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3
MOVEMENT	4

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'-11"-2"
TYPE E - M.ARM POLE	10	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	3.5
36" (40'-48")	13	ELECTRIC SERVICE	1	SERVICE TO GROUND	3.5
36" (50'-55")	15	GROUND CABLE	1	POST MOUNTED	6

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	100.0
SIGNAL (GREEN)	16	135	15	0.25	60.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
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 =					440.2

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

FILE NAME = 4085.800-TR1.dgn
 USER NAME =
 PLOT SCALE = NONE
 PLOT DATE = 1/29/09

DESIGNED - JRD
 DRAWN - LJD
 CHECKED - KLB
 DATE - 1/29/09

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
 ILL RTE 131 (GREEN BAY RD.) AND 14TH ST./PULASKI MEMORIAL DR.
 SCALE: NONE SHEET NO. 8 OF 21 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2711	2009-005 TS	097LAKE/ILK	21	8
				CONTRACT NO. 60601

GH# 4085.801
 ILLINOIS FED. AID PROJECT