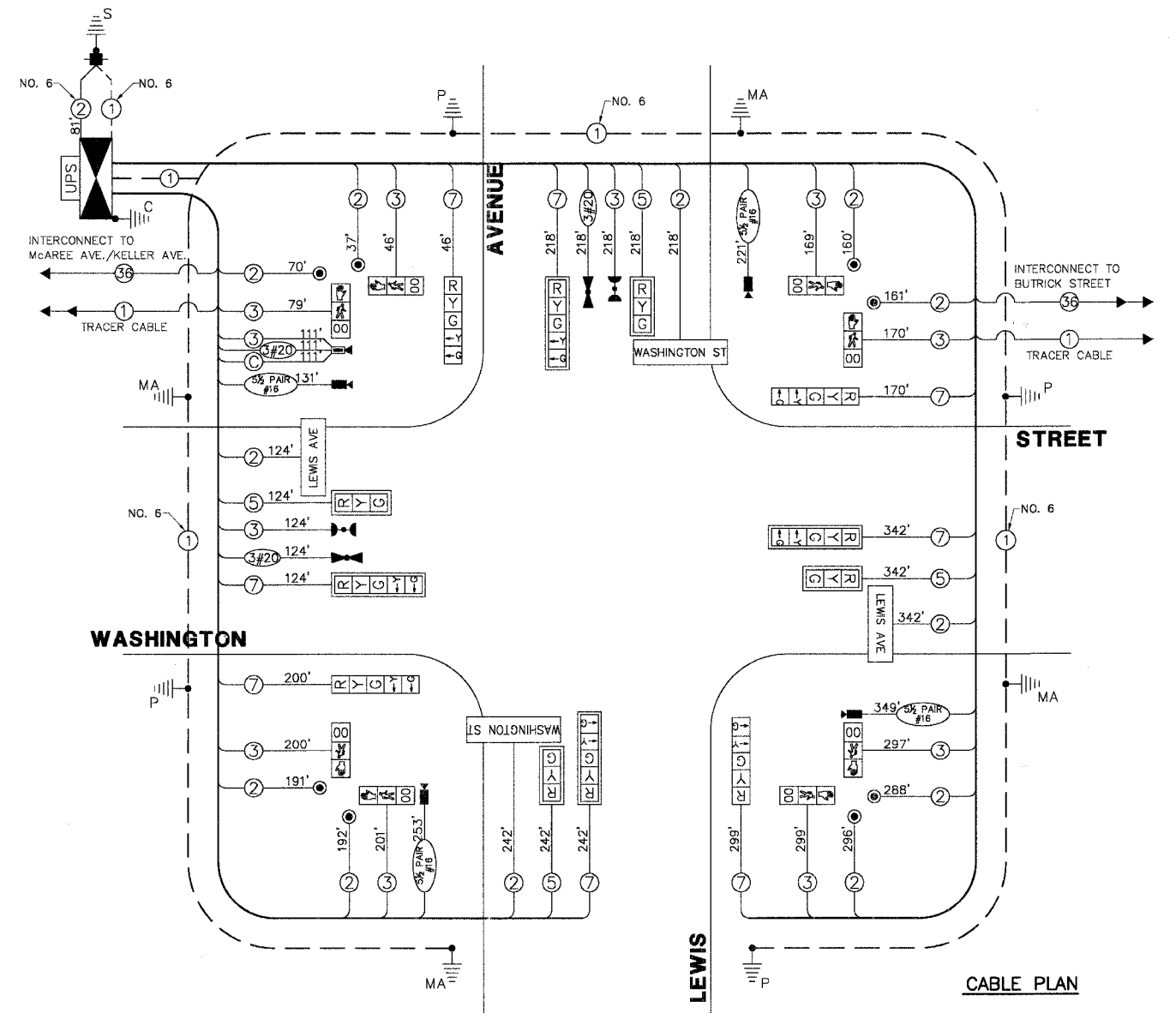


F.A.U. R.T.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	04-00272-00-TL	LAKE	72	22
CABLE PLAN, PHASE DESIGNATION DIAGRAM				
ILLINOIS				

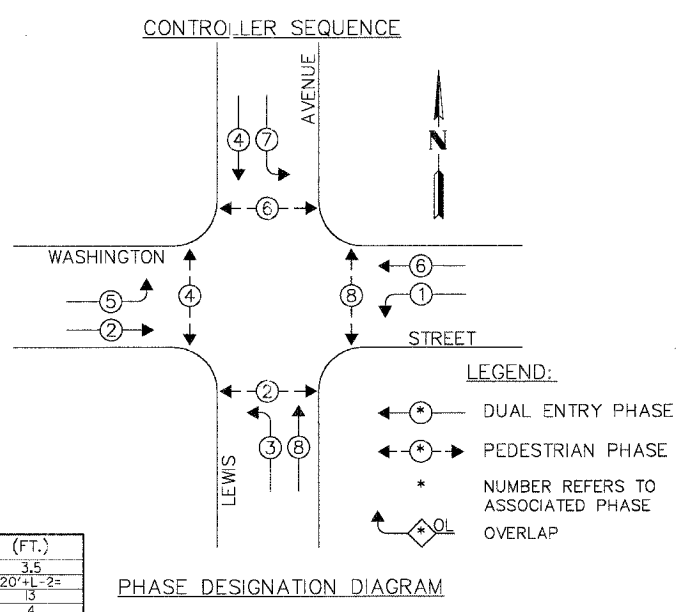
SCHEDULE OF QUANTITIES

QUANT.	UNIT	ITEM
ROADWAY IMPROVEMENTS		
1.	200	SQ.YD. TOPSOIL FURNISH AND PLACE, 4"
2.	200	SQ.YD. SODDING, SALT TOLERANT
3.	675	SQ.YD. AGGREGATE BASE COURSE, TYPE A, 4"
4.	675	SQ.YD. PORTLAND CEMENT CONCRETE BASE COURSE, 8"
5.	25	GAL BITUMINOUS MATERIALS (PRIME COAT)
6.	80	TON HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70
7.	40	SQ.YD. PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"
8.	3,700	SQ.FT. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
9.	96	SQ.FT. DETECTABLE WARNING
10.	510	SQ.YD. PAVEMENT REMOVAL
11.	40	SQ.YD. DRIVEWAY PAVEMENT REMOVAL
12.	950	FOOT COMBINATION CURB & GUTTER REMOVAL
13.	3,350	SQ.FT. SIDEWALK REMOVAL
14.	30	FOOT STORM SEWER, CLASS B, TYPE 1 12"
15.	3	EACH FRAME AND LIDS TO BE ADJUSTED
16.	4	EACH INLET, TYPE A, TYPE 1 FRAME, OPEN LID (30" DEPTH)
17.	750	FOOT COMBINATION CURB & GUTTER, TYPE B6.12
18.	768	FOOT THERMOPLASTIC PAVEMENT MARKING-LINE 12"
19.	195	FOOT THERMOPLASTIC PAVEMENT MARKING-LINE 24"
20.	930	SQ.FT. PAVEMENT MARKING REMOVAL
TRAFFIC SIGNAL IMPROVEMENTS		
21.	20	FOOT CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
22.	46	FOOT CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
23.	77	FOOT CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
24.	10	FOOT CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
25.	63	FOOT CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
26.	368	FOOT CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
27.	2	EACH HANDHOLE
28.	2	EACH DOUBLE HANDHOLE
29.	121	FOOT TRENCH AND BACKFILL FOR ELECTRICAL WORK
30.	1	EACH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, (SPECIAL)
31.	1	EACH TRANSCEIVER - FIBER OPTIC
32.	2,318	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 2C
33.	1,914	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C
34.	926	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 5C
35.	1,641	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 7C
36.	81	FOOT ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C
37.	1	EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT. (SPECIAL)
38.	2	EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL)
39.	1	EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)
40.	16	FOOT CONCRETE FOUNDATION, TYPE A
41.	4	FOOT CONCRETE FOUNDATION, TYPE C
42.	60	FOOT CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
43.	8	EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM
44.	2	EACH LIGHT DETECTOR
45.	1	EACH LIGHT DETECTOR AMPLIFIER
46.	8	EACH PEDESTRIAN PUSH-BUTTON
47.	1	EACH TEMPORARY TRAFFIC SIGNAL INSTALLATION
48.	1	EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
49.	13	EACH REMOVE EXISTING HANDHOLE
50.	13	EACH REMOVE EXISTING CONCRETE FOUNDATION
51.	8	EACH PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
52.	4	EACH L.E.D. INTERNALLY ILLUMINATED STREET NAME SIGN
53.	1	EACH VIDEO DETECTION SYSTEM, (COMPLETE INTERSECTION)
54.	1	EACH REMOTE-CONTROLLED VIDEO SYSTEM
55.	954	FOOT ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16, 5 1/2 PAIR
56.	4	EACH TRAFFIC SIGNAL POST, 16 FT. (SPECIAL)
57.	1	EACH LAYER II (DATA LINK) SWITCH
58.	1	EACH UNINTERRUPTIBLE POWER SUPPLY
59.	602	FOOT ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
60.	453	FOOT ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED
61.	4	EACH SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
62.	4	EACH SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED
63.	4	EACH SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
64.	111	FOOT ELECTRIC CABLE IN CONDUIT, COAXIAL
65.	1	EACH SERVICE INSTALLATION, POLE MOUNT



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	12" TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	TELEPHONE INSTALLATION
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	GROUND CABLE IN CONDUIT, NO.6 SOLID COPPER (GREEN)
[Symbol]	[Symbol]	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM24F
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET
[Symbol]	[Symbol]	ILLUMINATED SIGN "NO LEFT TURN"
[Symbol]	[Symbol]	ILLUMINATED SIGN "NO RIGHT TURN"
[Symbol]	[Symbol]	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)
[Symbol]	[Symbol]	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
[Symbol]	[Symbol]	BELDEN 8281 COAXIAL CABLE
[Symbol]	[Symbol]	ISDN LINE
[Symbol]	[Symbol]	LUMINAIRE
[Symbol]	[Symbol]	VIDEO DETECTION CAMERA
[Symbol]	[Symbol]	PTZ CAMERA
[Symbol]	[Symbol]	VIDEO COMMUNICATIONS CABINET
[Symbol]	[Symbol]	L.E.D. STREET NAME SIGN
[Symbol]	[Symbol]	UNINTERRUPTIBLE POWER SUPPLY



L.C.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	L.E.D.		
SIGNAL (RED)	12	135	0	0.50	60.0
SIGNAL (YELLOW)	12	135	19	0.10	22.8
SIGNAL (GREEN)	12	135	11	0.40	52.8
ARROW	16	135	9	0.10	14.4
PED.SIGNAL	8	90	9	1.00	72.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	4	-	250	0.50	500.0
L.E.D. ST. NAME SIGN	4	-	64	0.50	128.0
VIDEO SYSTEM	1	-	150	1.00	150.0
BATTERY BACKUP	1	-	25	1.00	25.0
TOTAL =					1125.0

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NCTIP" 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'+L-2'
TYPE E - M-ARM POLE	15	SIGNAL POST	2	BRACKET MOUNTED	13
		CONTROLLER CAB.	1	PED. PUSHBUTTON	4
		FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		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: MS. ALICE TAYLOR
 PHONE: (847) 816-5323
 COMPANY: COMED - LIBERTYVILLE

PLANS PREPARED BY:
GEWALT HAMILTON ASSOCIATES, INC.
 Consulting Engineers & Surveyors
 850 Forest Ridge Drive
 Vernon Hills, IL 60061
 (847) 478-9700
 (847) 478-9701 Fax

REVISIONS

NAME	DATE

PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	MOVEMENT
3	4

LAKE COUNTY DIVISION OF TRANSPORTATION
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES

WASHINGTON STREET AND LEWIS AVENUE

SCALE: NONE
 DATE: MAY 1, 2007

DRAWN BY: ZCW
 DESIGNED BY: JRD
 CHECKED BY: BLS