

F.A.P. R.F.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	(3-1)R	KENDALL	514	388
STA. TO STA.		FED. ROAD DIST. NO.		
		ILLINOIS FED. AID PROJECT		

PLAINFIELD RD. AT GROVE RD./WILMETTE AVE. ELECTRICAL LOAD CHART

PLAINFIELD ROAD	INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	7	10	35	
YELLOW	7	22	5	
GREEN	7	12	60	
PED. SIGNAL	2	25	100	

GROVE RD./WILMETTE AVE.	INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	6	10	60	
YELLOW	6	22	5	
GREEN	6	12	35	
YELLOW ARROW	2	10	5	
GREEN ARROW	2	5	25	

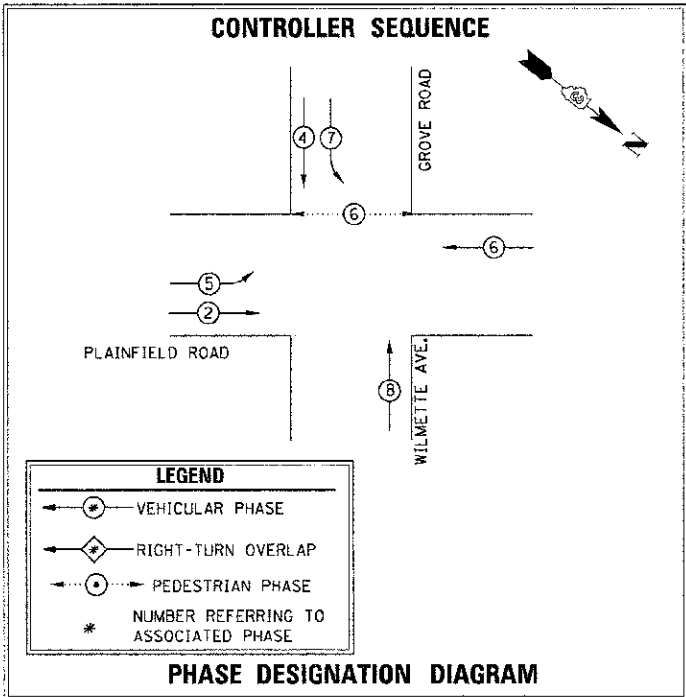
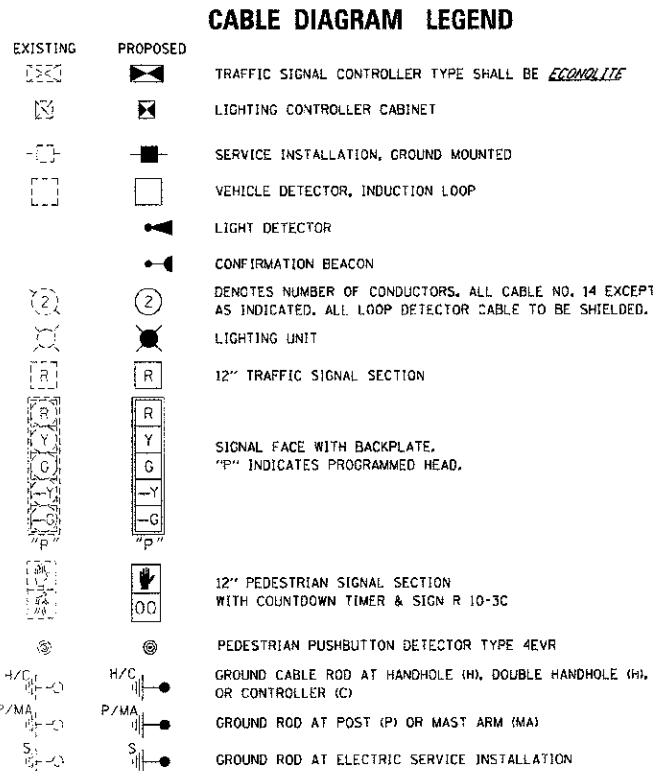
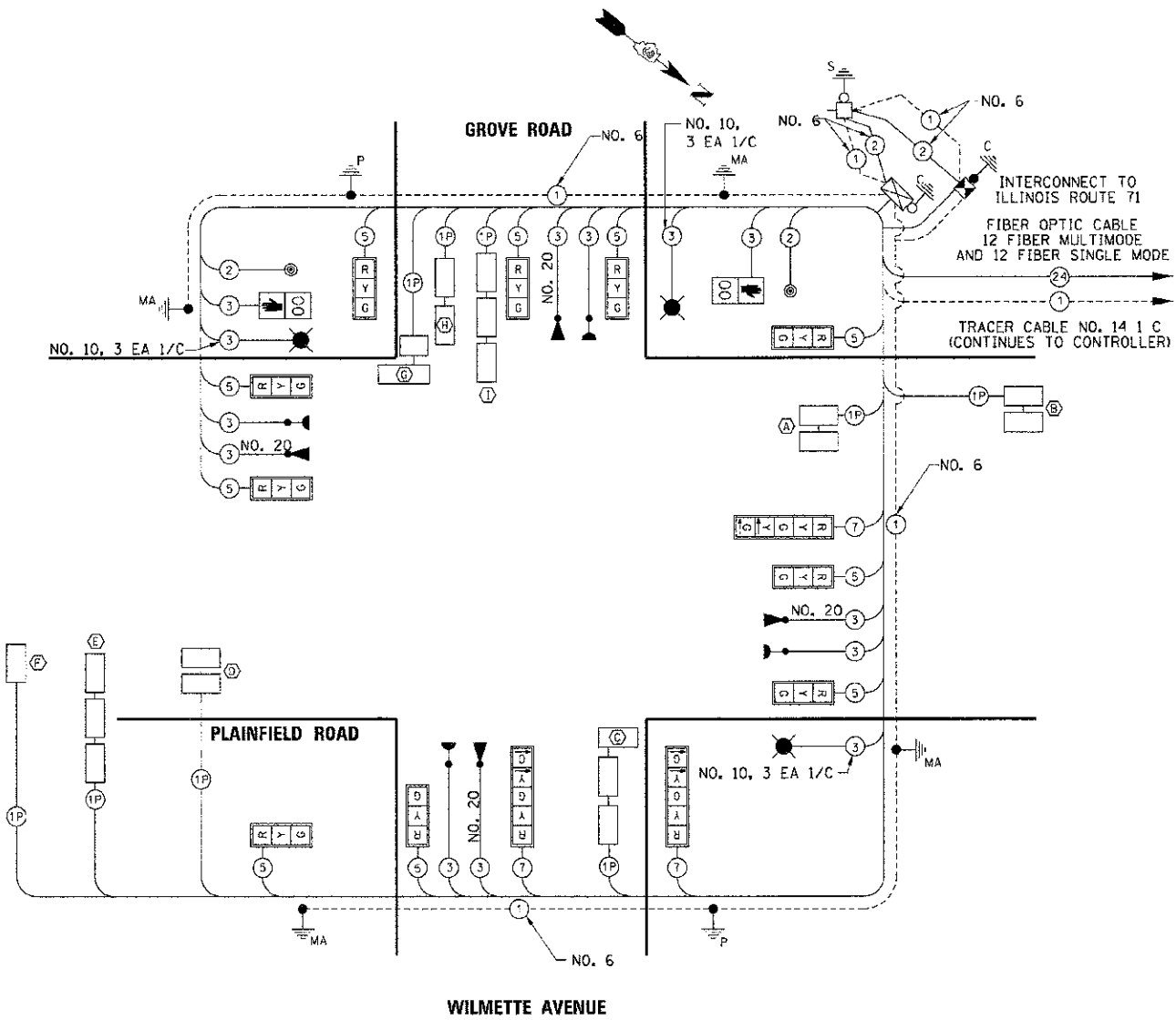
TRAFFIC SIGNAL CABINET	ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100	
LOOP DETECTORS	11	4	100	
UPS	1	50	100	

HIGHWAY LIGHTING	ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100	
LUMINAIRE	3	250	360 HRS/MONTH	

AGENCY RESPONSIBLE FOR ENERGY CHARGES: VILLAGE OF OSWEGO
 (NOTE: SEPARATE ENERGY BILLS FOR HIGHWAY LIGHTING AND TRAFFIC SIGNALS SHALL BE SUBMITTED TO THE VILLAGE OF OSWEGO)

SCHEDULE OF QUANTITIES

SIGN PANEL - TYPE 1	50 FT	23
SIGN PANEL - TYPE 2	50 FT	55
ELECTRIC SERVICE INSTALLATION	EACH	1
SERVICE INSTALLATION-GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	391
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	765
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	16
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	88
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	563
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	5
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2" NO. 10	FOOT	2,262
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	3
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240 VOLT, 60 AMP	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	204
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,041
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,034
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	474
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,193
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	20
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	13
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	1,311
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	559
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C TWISTED SHIELD	FOOT	819



PLAINFIELD RD AT GROVE RD/WILMETTE AVE. DETECTOR LOOP INDUCTANCE CHART

LOOP SYSTEM	PHASE	LABEL	NO. OF TURNS	INDUCTANCE (MICROHENRIES)	FREQUENCY (HERTZ)	J P IN STATUS
A	6	SB STBR	4	542	26,216	OFF
B	6	SB FAR	5	508	27,079	ON
C	8	WB	4	671	23,561	ON
D	2	NB STBR	4	576	25,430	OFF
E		NBLT	4			
F	2	NB FAR	5	438	29,163	ON
G	4	EB TH-RT FR	4	498	27,349	ON
H	4	EB TH-RT BK	4	552	25,977	ON
I	7	EBLT	4	812	21,418	ON

- NOTES:
- A SELF ADHERING PHASING DIAGRAM SHALL BE PLACED INSIDE THE CABINET DOOR.
 - FIBER OPTIC CABLE NEEDS DIRECTION AND ASSIGNMENT NUMBER ON EACH FIBER CABLE.
 - LIGHTING CABLES SHALL BE RUN IN CONDUIT THAT IS SEPARATE FROM THE TRAFFIC SIGNAL CONDUIT.

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN
PLAINFIELD ROAD
GROVE RD./WILMETTE AVE.

SCALE: N.T.S. DATE: 7/9/2012 DRAWN BY: NMR CHECKED BY: DJL

PLT DATE: 7/9/2012
 FILE NAME: p:\projects\11050081\11050081.dwg
 PLOT SCALE: 1" = 10'