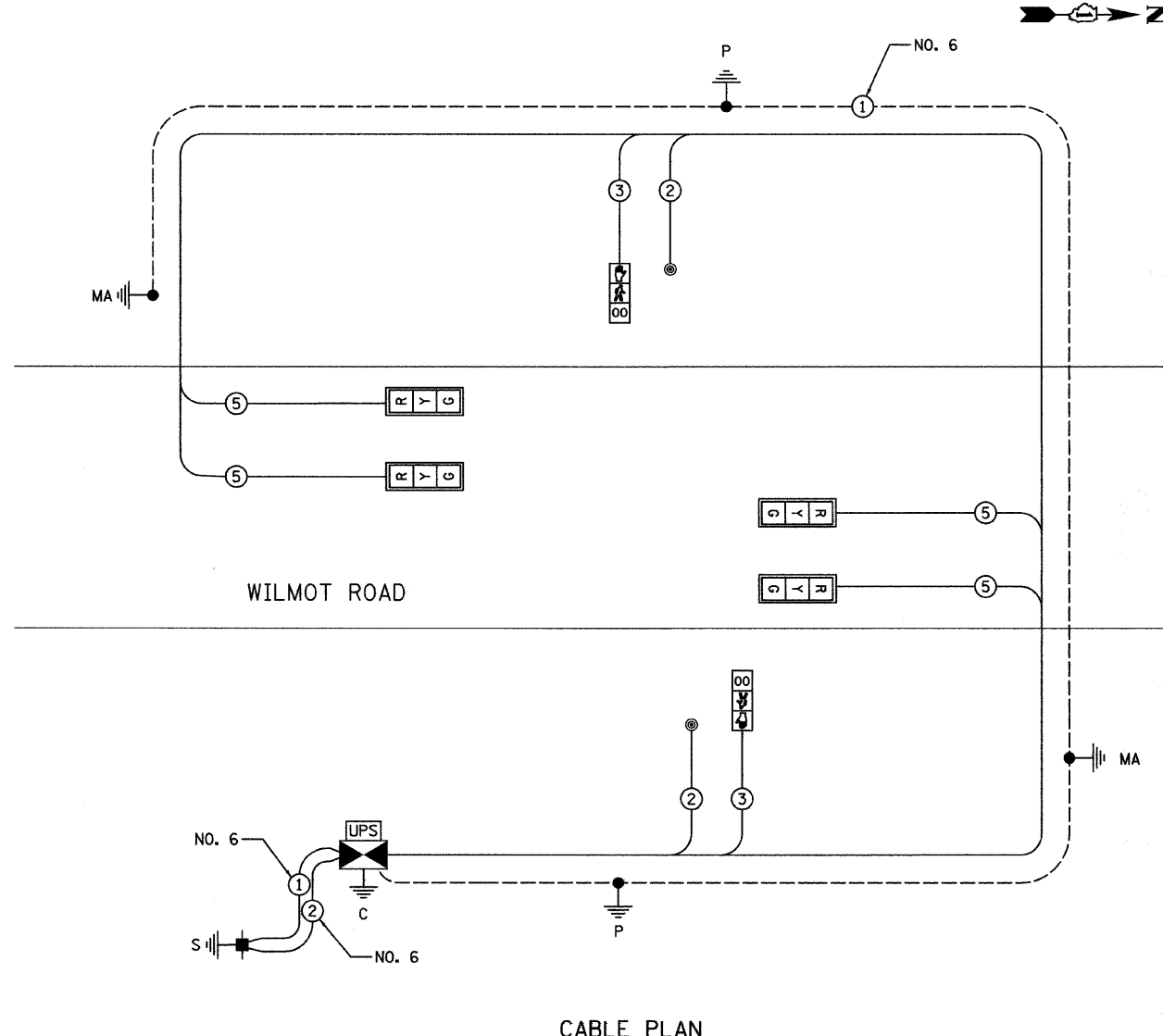


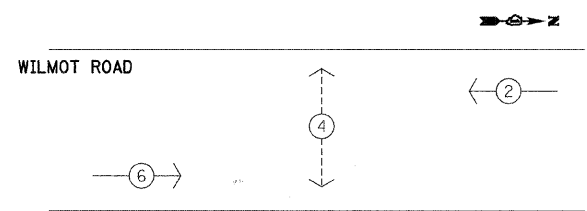
**CABLE PLAN LEGEND**

EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		MICROWAVE VEHICLE SENSOR
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "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
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F



**CABLE PLAN**

**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

**LEGEND**

- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- NUMBER REFERS TO ASSOCIATED PHASE

**SUMMARY OF QUANTITIES**

ITEM CODE	DESCRIPTION	UNIT	TOTAL
72000100	SIGN PANEL - TYPE 1	SQ FT	10.0
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	18.0
72900200	METAL POST - TYPE B	FOOT	27.0
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1.0
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	25.0
81000700	CONDUIT TRENCHED, 2 1/2" DIA, GALVANIZED STEEL	FOOT	80.0
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	14.0
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	35.0
81400100	HANDHOLE	EACH	2.0
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	102.0
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1.0
85700100	FULL-ACTUATED CONTROLLER AND TYPE III CABINET	EACH	1.0
86200200	UNINTERRUPTIBLE POWER SUPPLY (STANDARD)	EACH	1.0
87301215	ELECTRIC CABLE IN CONDUIT SIGNAL 14 2C	FOOT	140.0
87301225	ELECTRIC CABLE IN CONDUIT SIGNAL 14 3C	FOOT	160.0
87301245	ELECTRIC CABLE IN CONDUIT SIGNAL 14 5C	FOOT	480.0
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C	FOOT	30.0
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO.6 1C	FOOT	170.0
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 12 FT	EACH	2.0
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2.0
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8.0
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4.0
87800400	CONCRETE FOUNDATION, TYPE E, 30" DIAMETER	FOOT	30.0
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4.0
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2.0
88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	4.0
88800100	PEDESTRIAN PUSH BUTTON	EACH	2.0
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1.0
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
89502380	REMOVE EXISTING HANDHOLE	EACH	2.0
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5.0

**NOTE:**  
EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	4	135	17	0.50	34.00
(YELLOW)	4	135	25	0.25	25.00
(GREEN)	4	135	15	0.25	15.00
ARROW		135	12	0.10	
PED. SIGNAL	2	135	25	1.00	50
CONTROLLER	1	100	100	1.00	100
<b>TOTAL =</b>					<b>224.00</b>

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)		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'
E - M. ARM POLE		SIGNAL POST	2 (1.0)		6m+L-0.6m
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

ENERGY COSTS TO:  
VILLAGE OF DEERFIELD  
850 WALKEGAN ROAD  
DEERFIELD IL 60015  
ENERGY SUPPLY CONTACT: JOHN GLYNN  
PHONE: (866) 639-3532  
COMPANY: EXCELON BSC IT

USER NAME = ogutowski  
DESIGNED - JCC  
DRAWN - JCC  
CHECKED - CLG  
DATE - 1-30-2009  
PLOT SCALE = 1/30/2009  
PLOT DATE = 1/30/2009  
FILE NAME = n:\proj\3328\phase1\design\Traffic Analysis\Ped Crossing\3328-PEDSIG2.dgn

REVISIONS:  
REVISED -  
REVISED -  
REVISED -  
REVISED -

**VILLAGE OF DEERFIELD**  
**WILMOT ROAD (GORDON TERRACE TO DEERFIELD ROAD)**

**SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM**  
SCALE: SHEET NO. OF 55 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2718	07-00080-00-WR	LAKE	55	29

CONTRACT NO. 63124  
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT