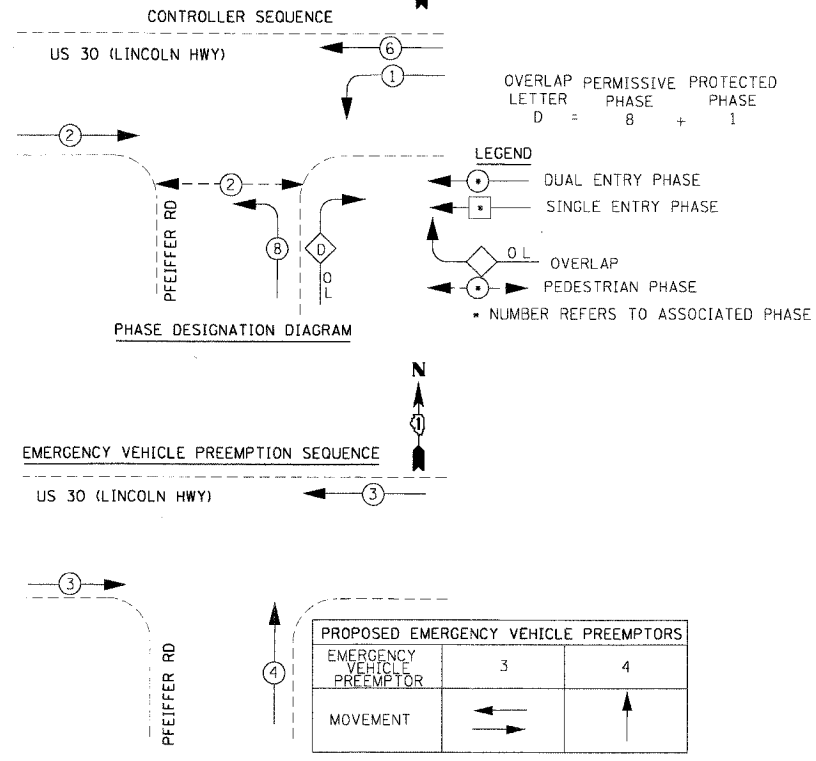
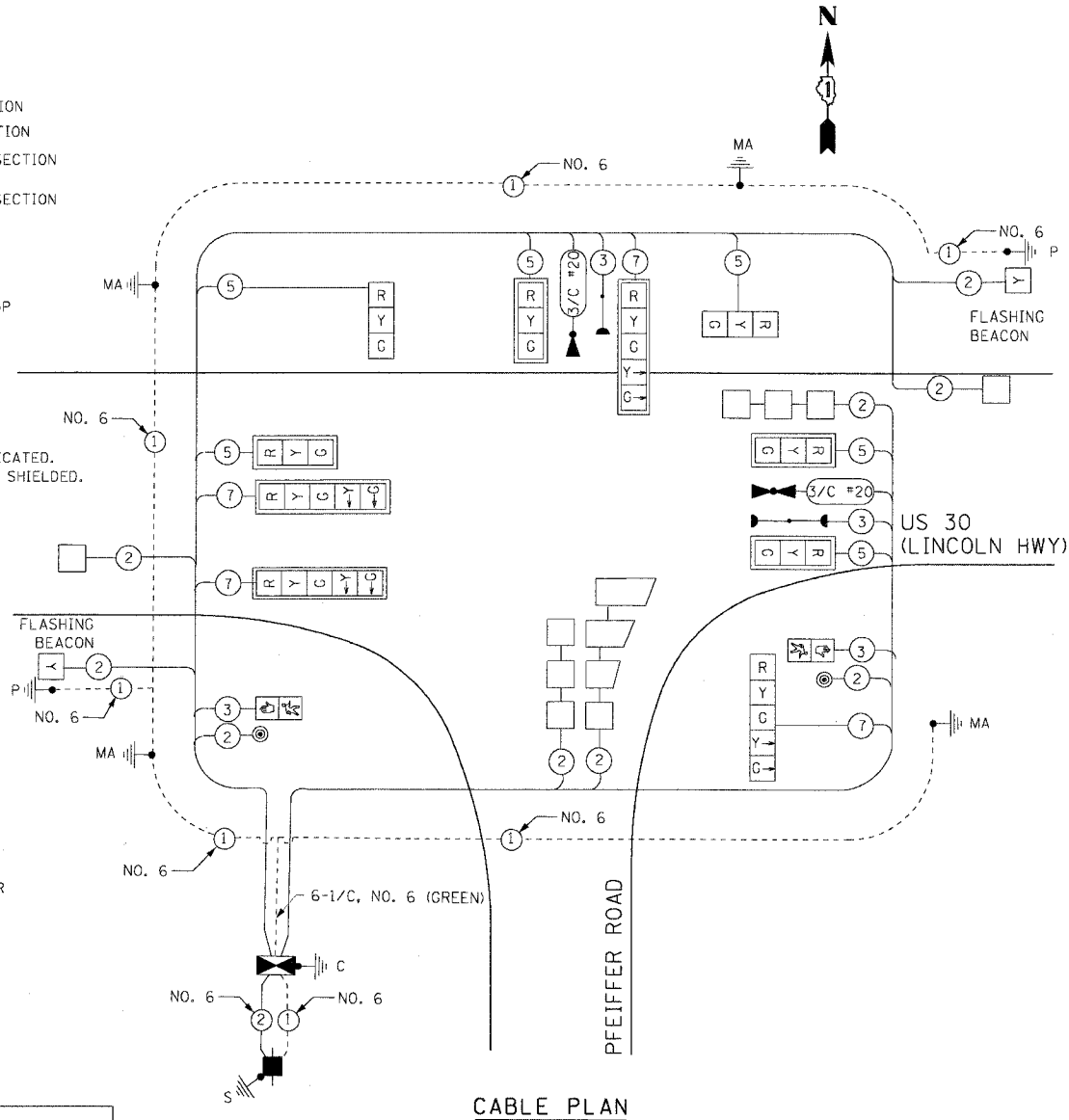


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3751		WILL	61	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
99-0030-00-PV		83803		

CABLE PLAN LEGEND

- EXISTING**
- 8" (200mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - CONTROLLER CABINET
 - TELEPHONE INSTALLATION
 - 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 2-MM12F & SM12F
 - 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"
 - H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
 - P GROUND ROD AT POST OR MAST ARM POLE
 - S GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- PROPOSED**
- 8" (200mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - CONTROLLER CABINET
 - TELEPHONE INSTALLATION
 - 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 2-MM12F & SM12F
 - 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"
 - H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
 - P GROUND ROD AT POST OR MAST ARM POLE
 - S GROUND ROD AT ELECTRIC SERVICE INSTALLATION



SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM DESCRIPTION
16.5	SOFT	SIGN PANEL - TYPE 1
30	SOFT	SIGN PANEL - TYPE 2
1192	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
132	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
66	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
122	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
193	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
1	EACH	HANDHOLE
5	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
1357	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
1657	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
812	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1355	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
785	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1340	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, SIGNAL NO. 14 1 PAIR
29	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE D
60	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
7	EACH	TRAFFIC SIGNAL BACKPLATE
5	EACH	INDUCTIVE LOOP DETECTOR
459	FOOT	DETECTOR LOOP, TYPE I
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
2	EACH	PEDESTRIAN PUSH BUTTON
2	EACH	POST MOUNTED FLASHING BEACON (SPECIAL)
1	EACH	SERVICE INSTALLATION, POLE MOUNT
2218	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 1C
524	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

QTY	UNIT	ITEM DESCRIPTION
4	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, L.E.D., 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED

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

TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	10	135	17	0.50	85
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		252		0.05	
TOTAL =					344.6

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: MS. DOLORES KREMNIETZ
PHONE: (815) 724-5716
COMPANY: COMMONWEALTH EDISON
1910 S. BRIGGS ST. JOLIET, IL 60433

FOUNDATION (DEPTH)	FT.	CABLE SLACK	FT.	VERTICAL	FT.
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE		SIGNAL POST	2	BRACKET MOUNTED	13
24"	10	CONTROLLER CAB.	1	PED. PUSHBUTTON	4
30"	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PFEIFFER ROAD IMPROVEMENT
SCHEDULE OF QUANTITIES, CABLE PLAN
US RTE 30 (LINCOLN HIGHWAY) AND PFEIFFER ROAD

SCALE: 1" = 20'
DATE: JUNE 06, 2005

DRAWN BY: MS
DESIGNED BY: MS
CHECKED BY: RG