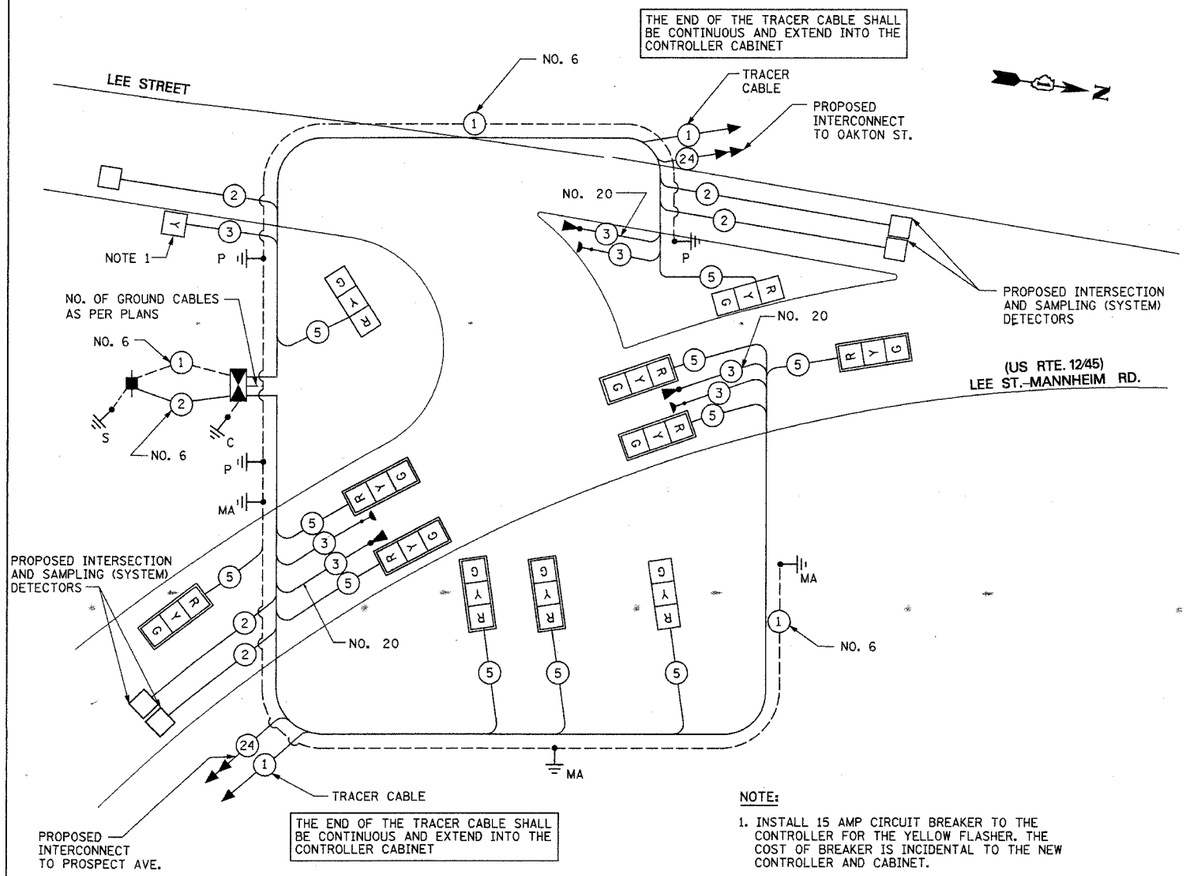
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2004-018TS	COOK	28	16
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62737



CABLE PLAN

(NOT TO SCALE)

NOTE:

1. INSTALL 15 AMP CIRCUIT BREAKER TO THE CONTROLLER FOR THE YELLOW FLASHER. THE COST OF BREAKER IS INCIDENTAL TO THE NEW CONTROLLER AND CABINET.

CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		RAILROAD CONTROL CABINET
		CONTROLLER CABINET
		SERVICE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
T	T	TELEPHONE INSTALLATION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
R Y G Y G	R Y G Y G	SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.
"P"	"P"	
"E"		RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN "NO LEFT TURN"
"E"		ILLUMINATED SIGN "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

	ITEM	UNIT	QNTY.
	TREE PRUNING (OVER 10 INCH DIA)	EACH	3
	MEDIAN REMOVAL	SQ FT	140
	CLASS D PATCHES TYPE III, 12 INCH	SQ YD	15.5
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	0.2
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	0.2
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	0.2
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	0.2
	SIGN PANEL - TYPE 1	SQ FT	9
	SIGN PANEL - TYPE 2	SQ FT	27.5
•	THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	73
•	THERMOPLASTIC PAVEMENT MARKING LINE 4"	FOOT	28
•	THERMOPLASTIC PAVEMENT MARKING LINE 12"	FOOT	58
•	THERMOPLASTIC PAVEMENT MARKING LINE 24"	FOOT	60
	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	596
	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	77
	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	35
	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	139
	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	16
	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	194
	HANDHOLE	EACH	7
	DOUBLE HANDHOLE	EACH	1
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	708
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	745
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1730
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1900
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	40
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE D	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	45
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
	INDUCTIVE LOOP DETECTOR	EACH	5
	DETECTOR LOOP, TYPE I	FOOT	120
••	LIGHT DETECTOR	EACH	3
••	LIGHT DETECTOR AMPLIFIER	EACH	1
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1650
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	10
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
	POST MOUNTED FLASHING BEACON INSTALLATION (SPECIAL)	EACH	1
	SERVICE INSTALLATION, POLE MOUNTED	EACH	1
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1025
••	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C TWISTED, SHIELDED	FOOT	455
	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3

• SFTY-1D

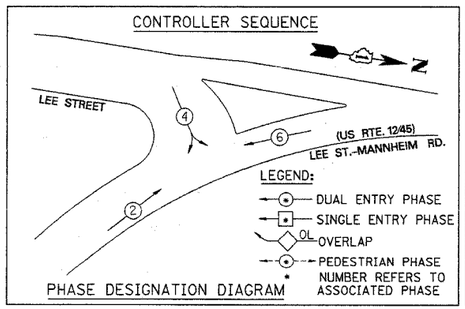
•• Y031-3D - 100% COST TO THE VILLAGE OF DESPLAINES

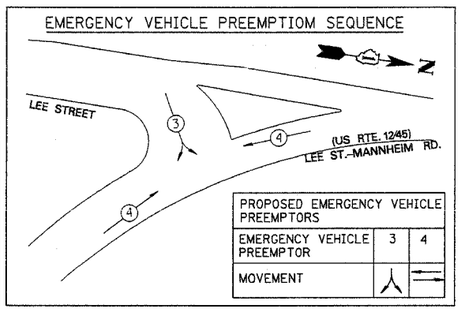
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						TOTAL WATTAGE
TYPE	NO. LAMPS	X WATTAGE INCAND	X WATTAGE LED	X % OPERATION		
SIGNAL (RED)	11	135	17	0.50		93.5
(YELLOW)	11	135	25	0.25		68.75
(GREEN)	11	135	15	0.25		41.25
ARROW						
PED. SIGNAL		90	25	1.00		
CONTROLLER	1	100	100	1.00		100
ILLUM. SIGN		84	35	0.05		
FLASHER (YELLOW)	1	135	25	0.50		12.5
					TOTAL =	316

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court/Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: CONTACT: *Mr. Sam Thomas*
PHONE: *(630)-691-4456*
COMPANY: ComEd

FOUNDATION (DEPTH)	(FT.) (m)	CABLE SLACK	(FT.) (m)	CABLE SLACK	(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)





TS-16

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES, US RTE. 12/45 (MANNHEIM RD.) AND LEE ST.

SCALE: NONE
DATE: FEBRUARY, 2005

DRAWN BY: RV/MD
DESIGNED BY: DS
CHECKED BY: AS/KG

KAM ENGINEERING, INC.
CONSULTING ENGINEERS
7074 Davis Road, Suite 205
Elgin, Illinois 60123-1369

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