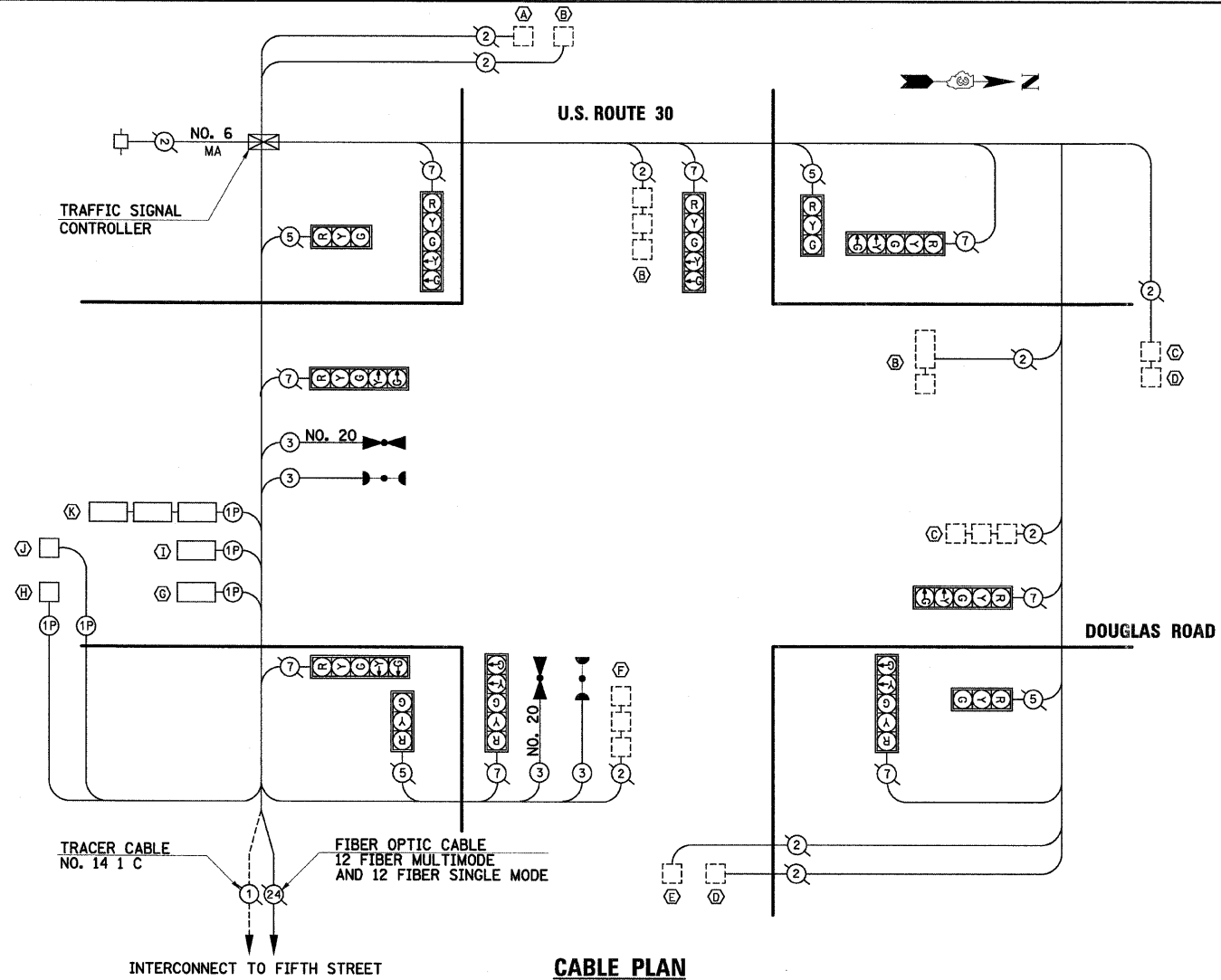
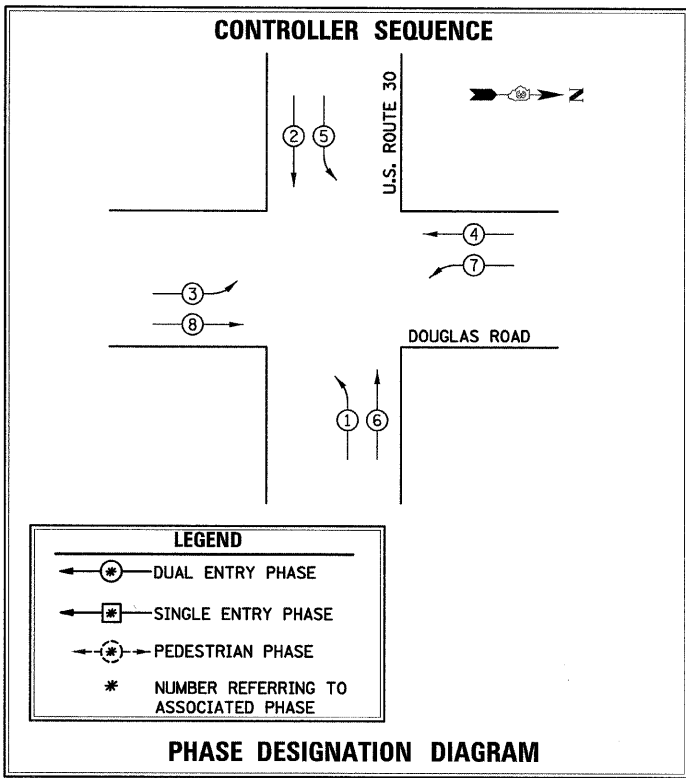


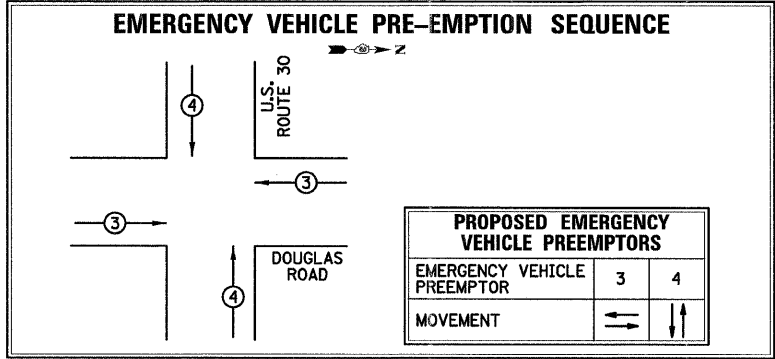
**SCHEDULE OF QUANTITIES**

DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SO FT	
SIGN PANEL - TYPE 2	SO FT	
RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	
CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	167
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	326
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	22
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	78
HANDHOLE	EACH	
DOUBLE HANDHOLE	EACH	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	379
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	
UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	250
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	923
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 15 FT.	EACH	
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 38 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 48 FT.	EACH	
CONCRETE FOUNDATION, TYPE A	FOOT	
CONCRETE FOUNDATION, TYPE C	FOOT	
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, POST MOUNTED	EACH	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	528
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING CABLE FROM CONDUIT	FOOT	400
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	
SERVICE INSTALLATION - GROUND MOUNTED	FOOT	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	259
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	1
REMOVE EXISTING HANDHOLE	EACH	1



**CABLE DIAGRAM LEGEND**

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
(2)	(2)	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	LIGHTING UNIT
[R]	[R]	12" TRAFFIC SIGNAL SECTION
[R Y G Y G]	[R Y G Y G]	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
H/C	H/C	GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P/MA	P/MA	GROUND ROD AT POST (P) OR MAST ARM (MA)
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR



**DOUGLAS ROAD AT US ROUTE 30 DETECTOR LOOP INDUCTANCE CHART**

LOOP SYSTEM	PHASE	LABEL	NO. OF TURNS	INDUCTANCE (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
G	8	NB ESTBR	4	194	43834	OFF
H	8	NB EFAR	6	405	30344	ON
I	8	NB WSTBR	4	194	43834	OFF
J	8	NB WFAR	6	405	30344	ON
K	3	NBLT	4	353	32501	ON

**I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	0.50	810
(YELLOW)	12	135	0.25	405
(GREEN)	12	135	0.25	405
ARROW (NORMAL)	16	135	0.10	216
ILLUM. SIGN		90	1.00	
CONTROLLER	1	100	1.00	100
FLASHER			0.05	
<b>TOTAL =</b>				<b>1936</b>

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

ENERGY SUPPLY CONTACT: JOE STACHO  
PHONE: 630-424-5704  
COMPANY: COMMONWEALTH EDISON

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

**NOTES**

- THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "3M OPTICOM".
- THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" BRAND TO MATCH ADJACENT SIGNALS.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.U. 2508 - DOUGLAS ROAD  
(U.S. RTE 34 TO U.S. RTE 30)

**CABLE PLAN**  
U.S. ROUTE 30

SCALE: VERT. N.T.S.  
HORIZ. DATE

DRAWN BY MJF  
CHECKED BY CRF

DATE  
BY  
SURVEYED  
PLOTTED  
CHECKED  
NOTE BOOK NO.  
PLAN

DATE  
BY  
SURVEYED  
PLOTTED  
CHECKED  
NOTE BOOK NO.  
PROFILE