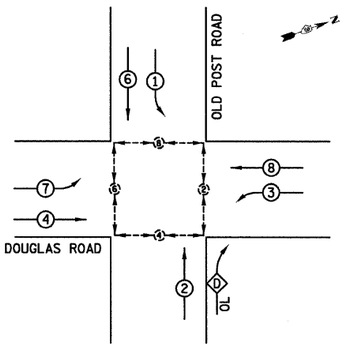
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2508	02-00039-00-PV	KENDALL	146	89
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

87333

CONTROLLER SEQUENCE

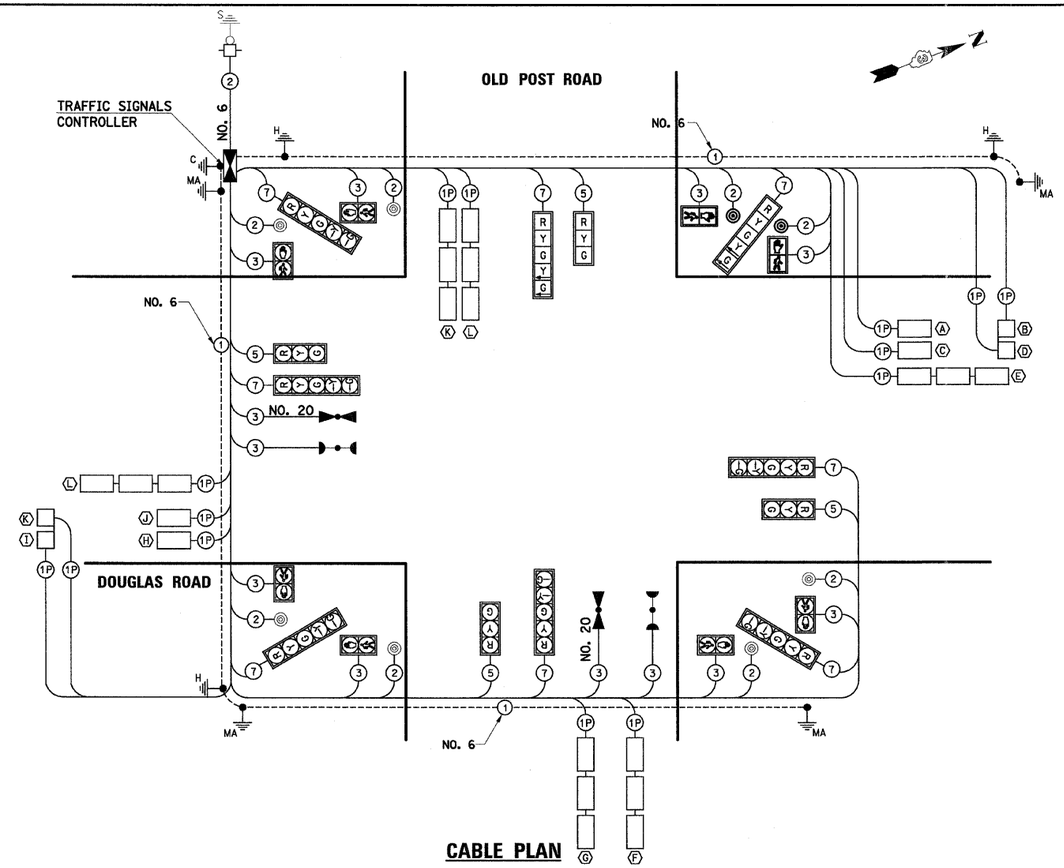


LEGEND

- VEHICULAR PHASE
- RIGHT-TURN OVERLAP
- * NUMBER REFERRING TO ASSOCIATED PHASE

OVERLAP PHASE		PROTECTED PHASE		PERMISSIVE PHASE
D	=	3	+	2

PHASE DESIGNATION DIAGRAM



CABLE PLAN

SCHEDULE OF QUANTITIES

SIGN PANEL - TYPE 1	SQ FT	
SIGN PANEL - TYPE 2	SQ FT	
RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1
CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	479
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	639
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	167
CONDUIT PUSHED, 1" DIA., GALVANIZED STEEL	FOOT	107
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	15
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	273
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1183
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	667
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	987
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	753
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1601
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2709
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	1
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	11
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, POST MOUNTED	EACH	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	3
INDUCTIVE LOOP DETECTOR	EACH	14
DETECTOR LOOP, TYPE I	FOOT	2262
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 ELECTRIC CABLE FROM CONDUIT	FOOT	1836
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
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	EACH	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO.6 1C	FOOT	434
ELECTRIC CABLE IN CONDUIT, NO.20 3C, TWISTED, SHIELDED	FOOT	329
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	
REMOVE EXISTING HANDHOLE	EACH	2

DOUGLAS ROAD AT OLD POST ROAD ELECTRICAL LOAD CHART

DOUGLAS ROAD

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	6	10	35
YELLOW	6	22	5
GREEN	6	12	60
YELLOW ARROW	4	10	5
GREEN ARROW	4	5	30

OLD POST ROAD

RED	6	10	60
YELLOW	6	22	5
GREEN	6	12	35
YELLOW ARROW	4	10	5
GREEN ARROW	4	5	35

TRAFFIC SIGNAL CABINET

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	2	6	100
LOOP DETECTORS	9	4	100
UPS	1	50	100

HIGHWAY LIGHTING

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	2	310	360 HRS/MONTH

ENERGY COSTS TO: VILLAGE OF OSWEGO
113 MAIN STREET
OSWEGO, ILLINOIS 60543

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

CABLE DIAGRAM LEGEND

EXISTING	PROPOSED	
		CONTROLLER CABINET
		SERVICE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		LIGHT DETECTOR
		CONFIRMATION BEACON
2	2	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		LIGHTING UNIT
R	R	12" TRAFFIC SIGNAL SECTION
R Y G Y G "P"	R Y G Y G "P"	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)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		PUSHBUTTON DETECTOR

DOUGLAS ROAD AT LONG BEACH ROAD DETECTOR LOOP INDUCTANCE CHART

LOOP SYSTEM	PHASE	LABEL	NO. OF TURNS	INDUCTANCE (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	8	SB WSTBR	4	151	49.604	OFF
B	8	SB WFAR	6	420	29.767	ON
C	8	SB ESTBR	4	151	49.604	OFF
D	8	SB EFAR	6	420	29.767	ON
E	3	SBLT	4	310	34.655	ON
F	D	WBRT	4	404	30.347	ON
G	2	WB	4	404	30.347	ON
H	4	NB ESTBR	4	171	46.696	OFF
I	4	NB EFAR	6	360	32.171	ON
J	4	NB WSTBR	4	171	46.696	OFF
K	4	NB WFAR	6	360	32.171	ON
L	7	NBLT	4	330	33.617	ON
M	6	EB	4	252	38.459	ON
N	1	EBLT	4	252	38.459	ON

NOTE

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "3M OPTICOM".

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.U. 2508 – DOUGLAS ROAD (U.S. RTE 34 TO U.S. RTE 30)

OLD POST ROAD CABLE PLAN

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

DATE

DRAWN BY

CHECKED BY

PLAN — NOTE BOOK NO. — SURVEYED — PLOTTED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — BLM. NOTED — UTILITIES — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED — PLOTTED — GRADES CHECKED — BLM. NOTED — STRUCTURE NOTATIONS CHKD — BY — DATE

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3/29/2007
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