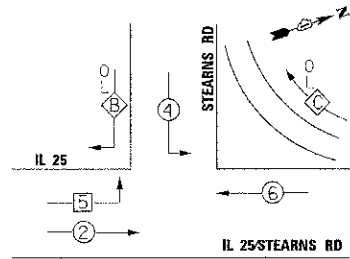


CONTROLLER SEQUENCE

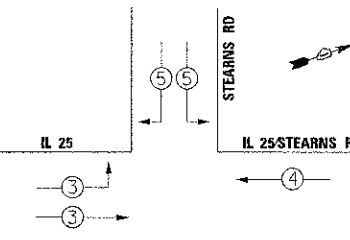


PHASE DESIGNATION DIAGRAM

SEE NOTE 1

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	=	FREE FLOW (HOT RIGHT)

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT	→	←	↕

SEE NOTE 2

LEGEND

- ⊕ DUAL ENTRY PHASE
- ⊙ SINGLE ENTRY PHASE
- ⊕ OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "SIEMENS (EAGLEY)" TO MATCH THE EXISTING ADJACENT SYSTEM.



CABLE PLAN
SCALE: NONE

NOTES:

- YELLOW FLASHING BEACONS FACING SOUTHBOUND IL 25 AT THE CCP RR SHALL BE ACTIVATED DURING PHASE 6 YELLOW AND RED INTERVALS AND WHEN THE TRAFFIC SIGNALS ARE IN ALL WAY RED FLASH. THESE YELLOW BEACONS SHALL NOT FLASH DURING THE PHASE 6 GREEN INTERVAL.
- YELLOW FLASHING BEACONS FACING SOUTHBOUND IL 25 AT THE CCP RR SHALL BE ACTIVATED DURING EMERGENCY VEHICLE PREEMPTION PHASES 3 & 5 GREEN, YELLOW AND ALL RED INTERVALS. THESE YELLOW FLASHING BEACONS SHALL NOT FLASH DURING EMERGENCY VEHICLE PREEMPTION PHASE 4 GREEN INTERVAL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	713
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	482
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	73
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	571
HANDHOLE	EACH	9
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,526
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	798
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,409
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,362
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	3,762
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	35
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16
INDUCTIVE LOOP DETECTOR	EACH	11
PREFORMED DETECTOR LOOP	FOOT	656
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	4
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	798
RELOCATE EXISTING SIGN PANEL (SPECIAL)	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
POST MOUNTED FLASHING BEACON INSTALLATION (SPECIAL)	EACH	2
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	14	-	17	0.50	119.0
(YELLOW)	14	-	25	0.25	87.5
(GREEN)	14	-	15	0.25	52.5
FREEFLOW ARROW	2	-	15	1.00	30.0
ARROW	-	-	12	0.10	-
PED. SIGNAL	-	-	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
ILLUM. SIGN	-	-	25	0.25	-
VIDEO SYSTEM	-	150	-	1.00	-
FLASHER	2	-	25	0.50	12.5
ENERGY COSTS TO:					TOTAL = 401.5

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SCHAUMBURG, ILLINOIS 60196
ENERGY SUPPLY CONTACT: MARTY RUBIN
PHONE: (847) 608 2400
COMPANY: COMED

FILE NAME	DESIGNED - BC	REVISED -
...\\11030988-wm-1125-stev-t-cable-plan.dwg	DRAWN - TMR	REVISED -
USER NAME - abark	CHECKED - MPM	REVISED -
PLOT DATE - 1/16/2013	DATE - 01/18/2013	REVISED -



STATE OF ILLINOIS
DIVISION OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 25/STEARNS RD AT STEARNS RD

SCALE: 1"=20' SHEET NO. 19 OF 49 SHEETS STA. TO STA.

F.A.P. RTE. 36	SECTION 06-00214-18-RP	COUNTY KANE	TOTAL SHEETS 451	SHEET NO. 230
				CONTRACT NO. 63598
ILLINOIS FED. AID PROJECT				