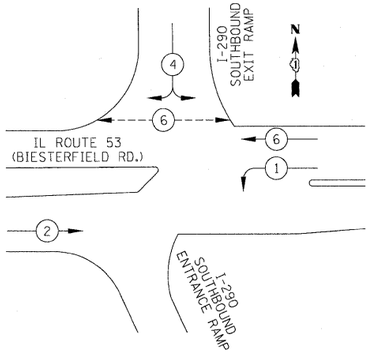
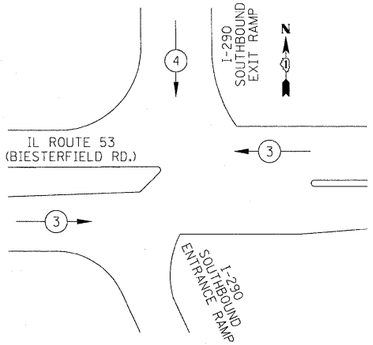
PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP (OL)
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

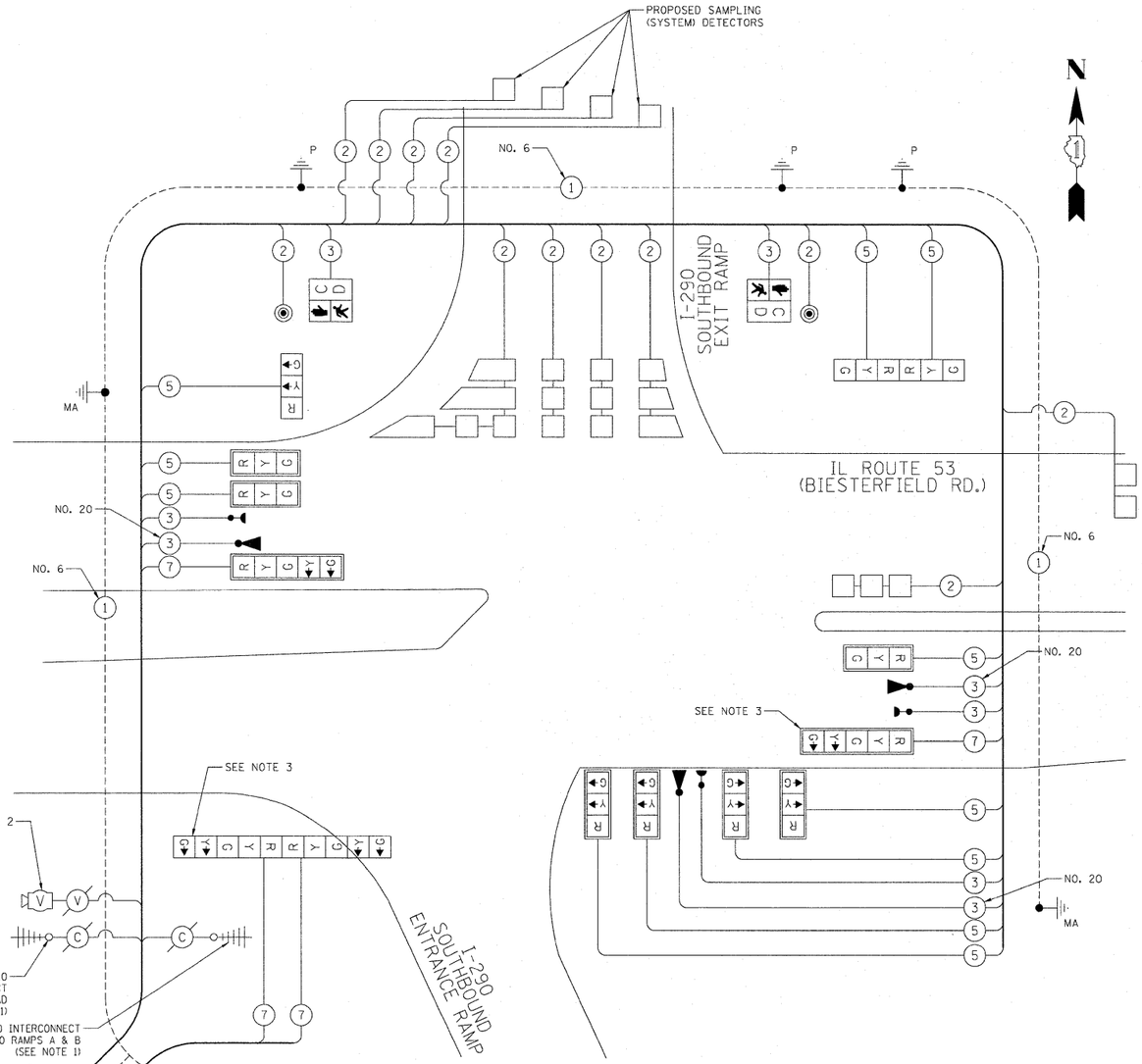
SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	15
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	536
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	153
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	36
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	41
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	519
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	3
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	649
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	527
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1621
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3492
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	742
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3632
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	346
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	983
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	255
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1211
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	1094
VIDEO VEHICLE DETECTOR	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1
PAINT NEW MAST ARM AND POLE, 40 FT. AND OVER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 62 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E (SPECIAL)	FOOT	25
PAINT NEW MAST ARM AND POLE WITH DUAL MAST ARMS, 40 FT. AND OVER	EACH	1

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

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	88
(GREEN)	14		15	0.25	53
ARROW	4		12	0.10	5
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
				TOTAL =	415

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: ELLIE SARALLO
PHONE: (630) 424-5124
COMPANY: COM ED



CABLE PLAN
NOT TO SCALE

NOTES:

1. THE RADIO EQUIPMENT, CABLING, AND THE WOOD POLE ON THE SOUTHWEST CORNER SHALL REMAIN FOR USE WITH THE PERMANENT SIGNAL INSTALLATION. THE RADIO TRANSCEIVER SHALL BE RELOCATED FROM THE TEMPORARY CONTROLLER CABINET TO THE PERMANENT CONTROLLER CABINET. THIS WORK SHALL BE PAID FOR AS "WIRELESS INTERCONNECT (COMPLETE)." PERMANENT FIBER OPTIC INTERCONNECT SHALL BE INSTALLED BY OTHERS AS A PART OF ELK GROVE VILLAGE'S BIESTERFIELD ROAD PROJECT (SECTION NO. 09-00054-00-CH).
2. THE VIDEO VEHICLE DETECTOR ON THE SOUTHWEST CORNER SHALL REMAIN IN PLACE, AND SHALL BE USED TO PROVIDE EASTBOUND FAR-BACK DETECTION. THIS WORK SHALL BE PAID FOR AS "VIDEO VEHICLE DETECTOR." THE 2" CONDUIT STUB FROM THE DOUBLE HANDHOLE SHALL BE PROVIDED TO INSTALL FUTURE PERIMETER HANDHOLE AND DETECTOR LOOPS BY OTHERS AS A PART OF ELK GROVE VILLAGE'S BIESTERFIELD ROAD PROJECT (SECTION NO. 09-00054-00-CH).
3. THE RIGHT TURN SECTIONS OF THIS SIGNAL HEAD SHALL BE BAGGED AND DISCONNECTED. THESE SECTIONS SHALL BE ACTIVATED BY OTHERS UPON COMPLETION OF THE RIGHT TURN LANE EXTENSION AND RAMP WIDENING AS A PART OF ELK GROVE VILLAGE'S BIESTERFIELD ROAD PROJECT (SECTION NO. 09-00054-00-CH).

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JJE	REVISED -
	PLOT DATE = $DATE$	DATE - 05/05/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES
IL ROUTE 53 (BIESTERFIELD ROAD) AT I-290 SOUTHBOUND RAMPS

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	0101-311 HBK-1	COOK	44	23
		CONTRACT NO. 60J32		
		ILLINOIS FED. AID PROJECT		