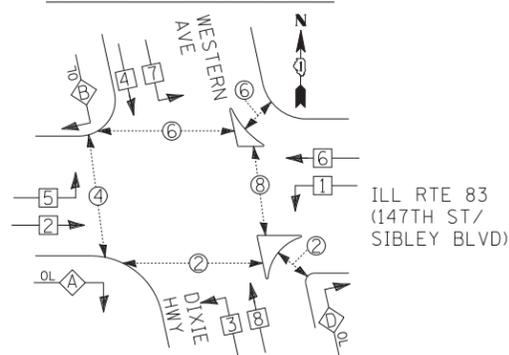


CONTROLLER SEQUENCE

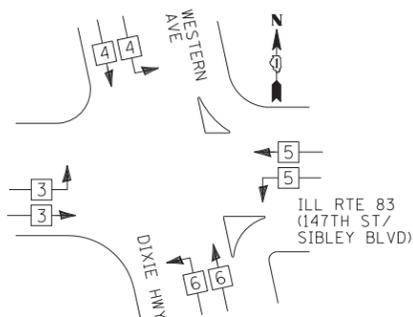


PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
D	= 8	+ 1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	↓	↔	↔

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	I.D.O.T. HARVEY
SIGN PANEL - TYPE 1	SOFT	60
REMOVE SIGN PANEL - TYPE 2	SOFT	58
RELOCATE SIGN PANEL - TYPE 2	SOFT	58
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1596
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	75
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	644
HANDHOLE	EACH	8
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1931
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2001
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4892
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1739
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	9251
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	319
ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	1170
GROUNDING CONDUCTOR, NO. 6 1C	FOOT	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 62 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E	FOOT	13
36-INCH DIAMETER CONCRETE FOUNDATION, TYPE E	FOOT	74
42-INCH DIAMETER SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	16
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	20
INDUCTIVE LOOP DETECTOR	EACH	24
PEDESTRIAN PUSH-BUTTON	EACH	10
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	6
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	5
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	12
REMOVE EXISTING DOUBLE HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE	FOOT	--
SENSOR CABLE, NO. 20 3/C	FOOT	474
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, COMPLETE	EACH	--
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 65 FT. AND 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 66 FT. AND 42 FT.	EACH	1

SCHEDULE OF QUANTITIES FOR ALTERNATE PAVEMENT

PAY ITEM	UNIT	ALT "A"	ALT "B"
DETECTOR LOOP, TYPE I	FOOT	--	1163
PREFORMED DETECTOR LOOP	FOOT	1163	--

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

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	17		17	0.50	144.5
(YELLOW)	17		25	0.25	106.3
(GREEN)	17		15	0.25	63.8
ARROW	36		12	0.10	43.2
PED. SIGNAL	10		25	1.00	250.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN	0		25	0.05	0.0
FLASHER	0			0.05	0.0

ENERGY COSTS TO: TOTAL = 707.8

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: *KATHRYN SUGRUE *MAKE INITIAL CONTACT
PHONE: (708) 235-2337 WITH COMED NEW BUSINESS
COMPANY: COMED SERVICES AT (866) 639-3532

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

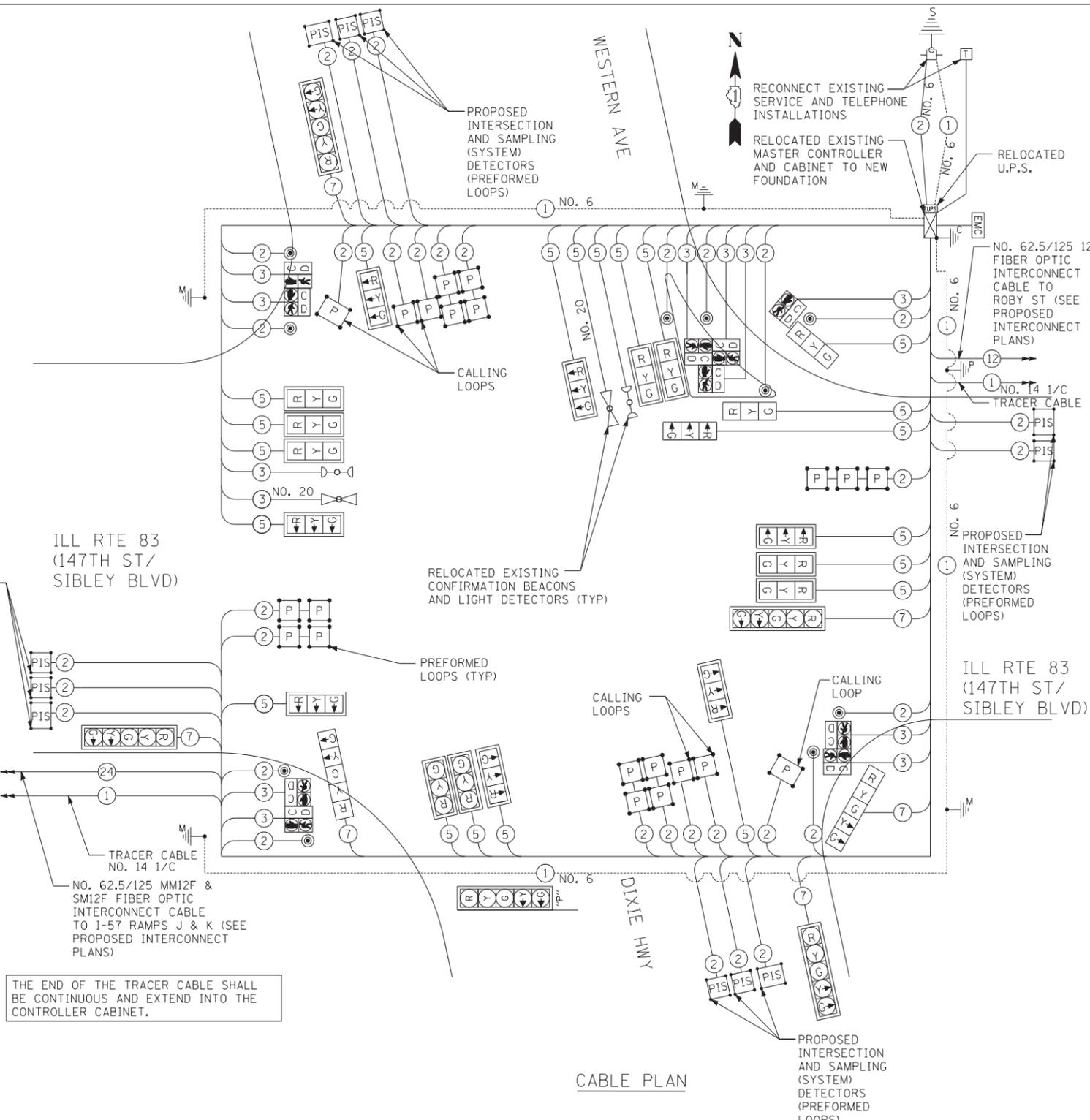
RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

USER NAME =	DESIGNED - JDF	REVISED -
	DRAWN - JDF	REVISED -
PLOT SCALE =	CHECKED - JPM	REVISED -
PLOT DATE =	DATE - 5/23/2012	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

147TH STREET PROJECT SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ILL RTE 83 (147TH STREET/SIBLEY BLVD) AND DIXIE HWY/WESTERN AVE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XX	(0405-1 & 0506-2) R-1	COOK	577	390
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	



CABLE PLAN

NOTE: PREFORMED LOOPS ARE SHOWN ON ALL PERMANENT PAVEMENT LOCATIONS. IF AN ALTERNATE PAVEMENT (HMA) IS SELECTED BY THE CONTRACTOR, THEN TYPE I LOOPS SHALL BE USED IN ALL LOCATIONS WHERE HMA PAVEMENT IS SELECTED.