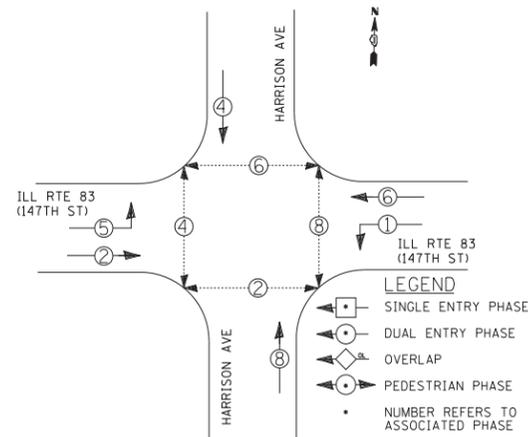
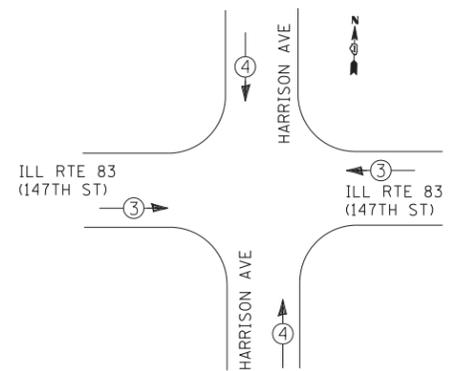


CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	I.D.O.T.	POSEN
REMOVE SIGN PANEL - TYPE 1	SOFT	18	
REMOVE SIGN PANEL - TYPE 2	SOFT	25	
RELOCATE SIGN PANEL - TYPE 1	SOFT	18	
RELOCATE SIGN PANEL - TYPE 2	SOFT	25	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	307	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	23	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	44	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	164	
HANDHOLE	EACH	3	
HEAVY-DUTY HANDHOLE	EACH	2	
DOUBLE HANDHOLE	EACH	1	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1136	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1192	263
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1671	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	666	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2676	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	208	
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	723	
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1	
CONCRETE FOUNDATION, TYPE A	FOOT	4	
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13	
DRILL EXISTING HANDHOLE	EACH	11	
INDUCTIVE LOOP DETECTOR	EACH	8	
PEDESTRIAN PUSH-BUTTON	EACH	8	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	
RELOCATE EXISTING SIGNAL HEAD	EACH	10	
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8	
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1	
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	2	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
REMOVE EXISTING HANDHOLE	EACH	5	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4	
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	
EMERGENCY VEHICLE PRIORITY SYSTEM	FOOT	--	263
LINE SENSOR CABLE, NO. 20 3/C	FOOT	--	
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, COMPLETE	EACH	--	1

SCHEDULE OF QUANTITIES FOR ALTERNATE PAVEMENT

PAY ITEM	UNIT	ALT "A"	ALT "B"
DETECTOR LOOP, TYPE I	FOOT		585
PERFORMED DETECTOR LOOP	FOOT	585	

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 SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	14		17	0.50	119.0
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52.5
ARROW	8		12	0.10	9.6
PED. SIGNAL	8		25	1.00	200.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN	-		25	0.05	-
FLASHER				0.05	0.0

ENERGY COSTS TO: TOTAL = 568.6

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

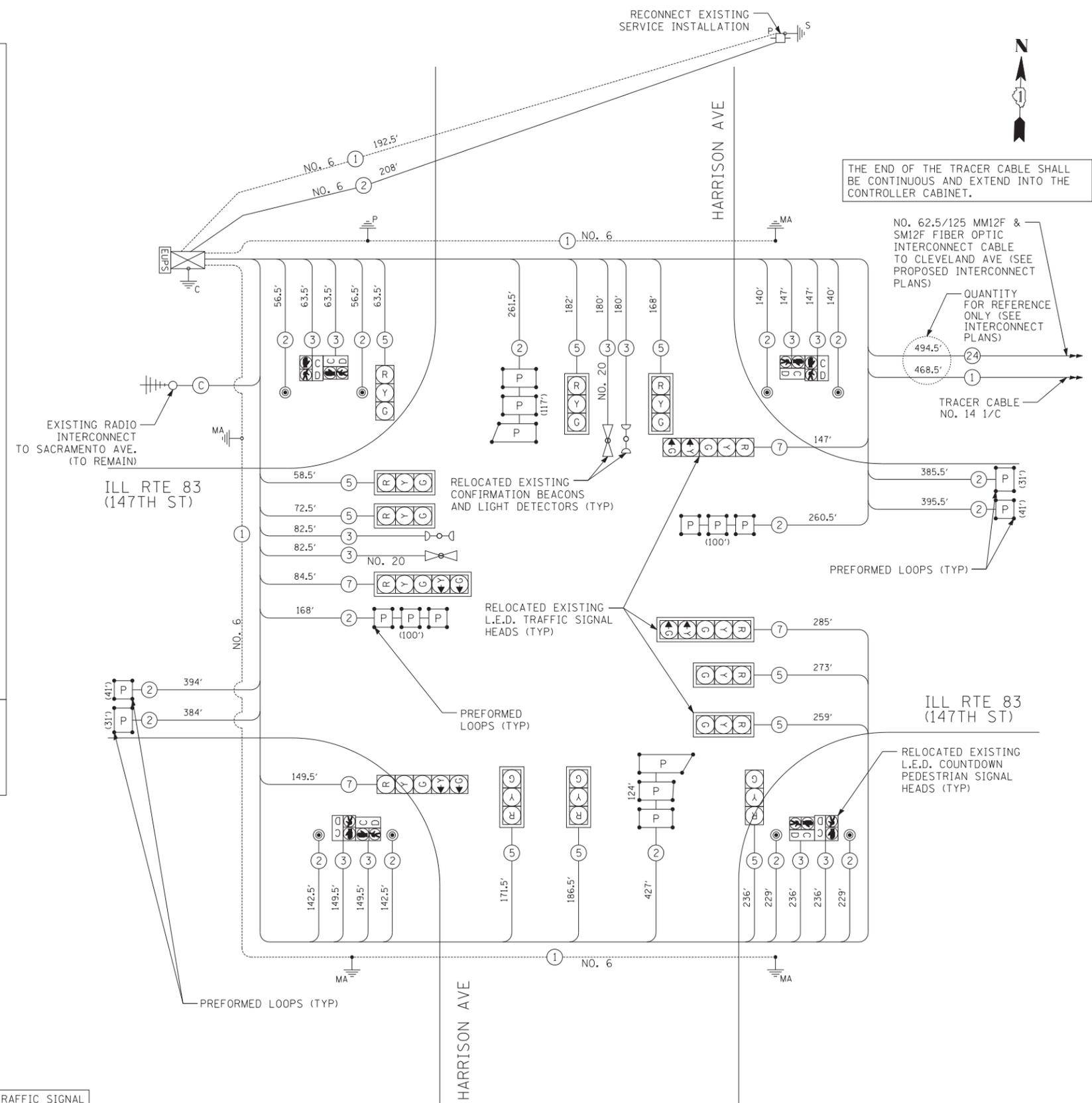
ENERGY SUPPLY: CONTACT: \*KATHRYN SUGRUE \*MAKE INITIAL CONTACT  
PHONE: (708) 235-2337 WITH COMED NEW BUSINESS  
COMPANY: COMED SERVICES AT (866) 639-3532

TYLIN INTERNATIONAL	USER NAME =	DESIGNED - MBR	REVISED -
	PLOT SCALE =	DRAWN - MBR	REVISED -
	PLOT DATE =	CHECKED - DAJ	REVISED -
		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) AND HARRISON AVE  
SCALE: N.T.S. SHEET NO. 1 OF 1 SHEET STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XX	(0405-1 & 0506-2) R-1	COOK	577	369
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60M57	



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.