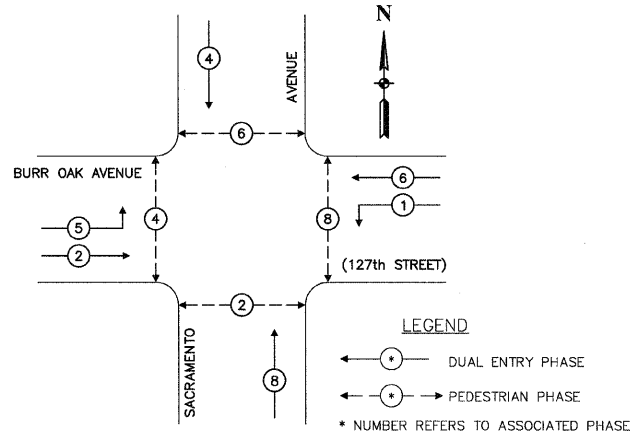
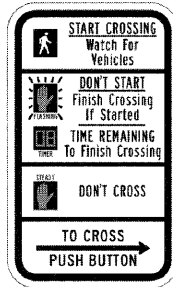


CONTROLLER SEQUENCE

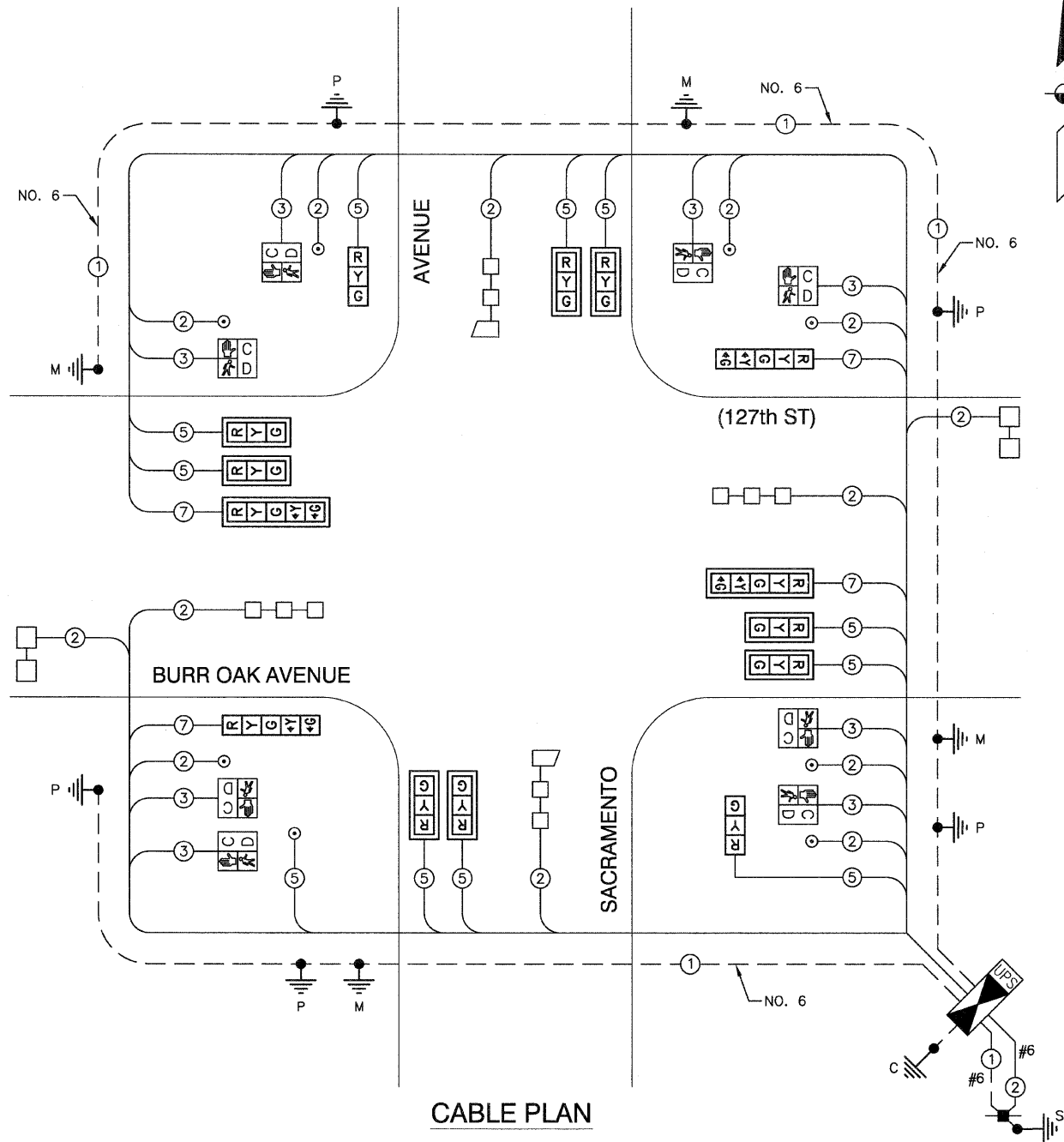


PHASE DESIGNATION DIAGRAM



R10-3e

THE CONTRACTOR SHALL SUPPLY AND MOUNT ONE SIGN WITH EACH PEDESTRIAN PUSH BUTTON AND THIS SHALL BE INCLUDED IN THE COST OF THE PEDESTRIAN PUSH BUTTON PAY ITEM



CABLE PLAN

NOTES:

- ALL SIGNAL INDICATIONS SHALL BE LED.
- STOP BARS ON BURR OAK AVENUE SHALL NOT BE INSTALLED UNTIL TRAFFIC SIGNAL IS OPERATIONAL.
- ALL NEW GROUND RODS SHALL BE 3/4" X 10' LONG COPPER CLAD. THE COST SHALL BE INCIDENTAL TO THE COST OF INSTALLATION.
- REFER TO TS-05 FOR IDOT DISTRICT ONE GROUNDING REQUIREMENTS.
- IF THE CONTRACTOR REQUESTS AND OBTAINS PRIOR APPROVAL TO INSTALL "CONDUIT IN TRENCH", OF THE SIZE AND TYPE SPECIFIED, BY DIRECTIONAL BORING METHOD, NO ADDITIONAL COMPENSATION WILL BE ALLOWED AND THE WORK SHALL BE PAID FOR AS SHOWN ON THE CONTRACT PLANS.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUAN
SIGN PANEL, TYPE 2	SQ FT	58
SERVICE INSTALLATION - POLE MOUNT	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	593
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	54
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	109
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	207
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1077
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1171
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1545
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	699
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1163
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	101
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	411
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
PEDESTRIAN PUSH-BUTTON POST, TYPE I	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE 1	FOOT	516
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	84	-	0.05	-
LIGHTS	-	250	-	0.25	-
FLASHER	-	-	-	0.50	-
ENERGY COSTS TO: CITY OF BLUE ISLAND	-	-	-	-	TOTAL = 568.6
ENERGY SUPPLY CONTACT: COM-ED BUSINESS DEPARTMENT PHONE: 866-639-3532 COMPANY: COMMONWEALTH EDISON COMPANY					
FILE NAME = 09527-SGNL-CBLE-02 - P01	USER NAME =	DESIGNED -- HLG/JRA	REVISED --		
		CHECKED -- HLG	REVISED --		
	PLOT SCALE =	DRAWN -- JJB	REVISED --		
	PLOT DATE = 02-22-12	CHECKED -- JRA	REVISED --		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 0344 (127TH STREET)
AT SACRAMENTO AVENUE
TRAFFIC SIGNAL CABLE PLAN

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	06-00175-00-TL	COOK	48	31
CONTRACT NO. 63613				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT F-0344 (041)				

SCALE: NA SHEET NO. 31 OF 48 SHEETS STA. TO STA.