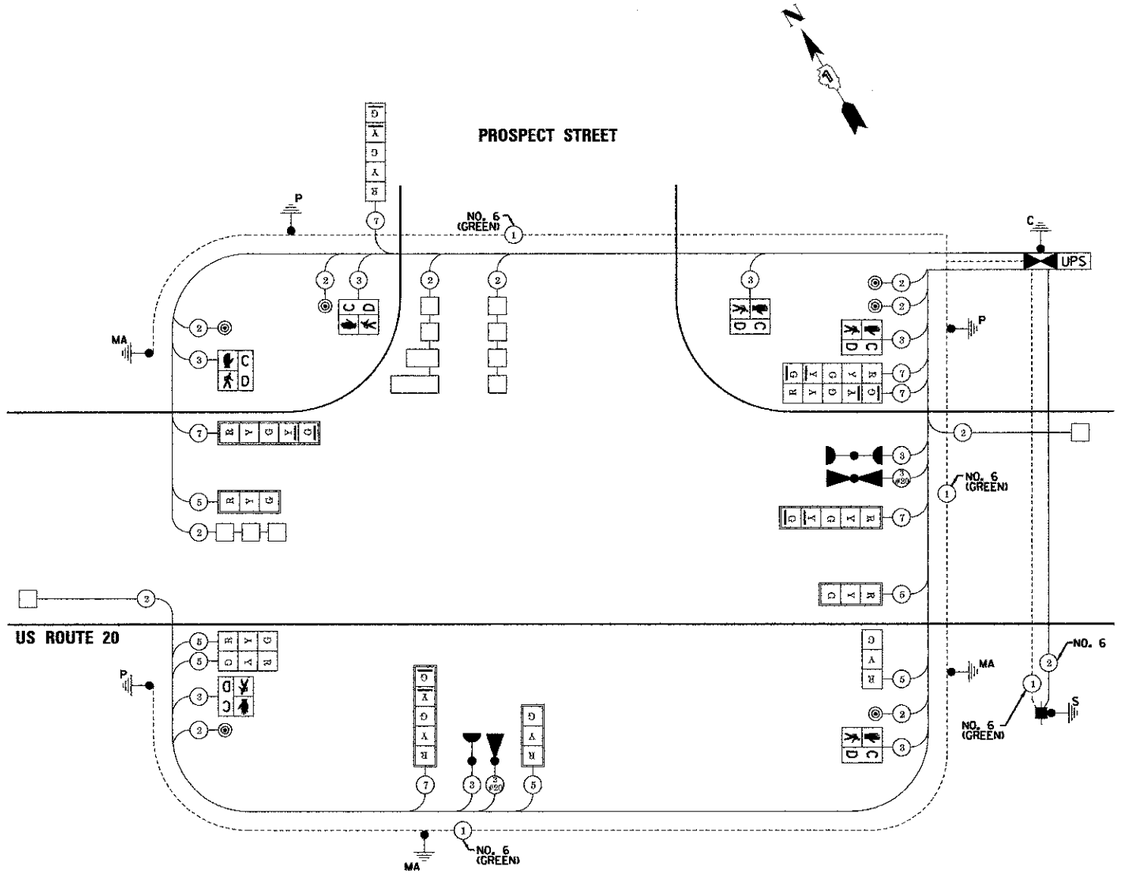


CABLE PLAN

SCHEDULE OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL
72000100	SIGN PANEL - TYPE 1	SQ FT	16.50
72000200	SIGN PANEL - TYPE 2	SQ FT	12.50
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	741.0
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	185.0
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	62.0
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	245.0
81400100	HANDHOLE	EACH	5
81400200	HEAVY-DUTY HANDHOLE	EACH	2
81400300	DOUBLE HANDHOLE	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2,103.0
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,101.5
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,361.0
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,127.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	125.5
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	996.5
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
87700180	STEEL MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16.0
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4.0
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30.0
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	6
88500100	INDUCTIVE LOOP DETECTOR	EACH	5
88600100	DETECTOR LOOP, TYPE I	FOOT	441.5
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	6
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	397.0
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

NOTE:
THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM OR AN APPROVED EQUAL.

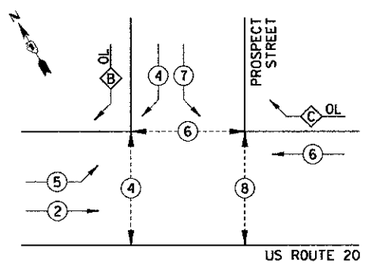
NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	12		12	0.10	14.40
PEDESTRIAN SIGNAL	6		25	1.00	150.00
CONTROLLER	1		100	1.00	100.00
UPS	1		25	1.00	25.00
				TOTAL =	501.40

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
210 W. CENTER COURT
SCHAUMBURG, IL 60196

ENERGY SUPPLY CONTACT: MIKE LENOX
PHONE: (815) 490-2896
COMPANY: COMMONWEALTH EDISON

CONTROLLER SEQUENCE



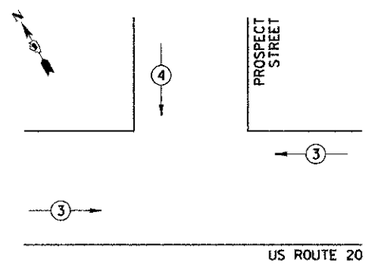
PHASE DESIGNATION DIAGRAM

OVERLAP PHASE		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5
C	=	6	+	7

CONTROLLER SEQUENCE LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- * — NUMBER REFERRING TO ASSOCIATED PHASE
- PEDESTRIAN PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

PLAN / PROFILE — SURVEYED, PLOTTED, DRAWN, ALIGNMENT CHECKED, R/L OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE, R.R. NOTED, STRUCTURE NO/ATHIS CHKD

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PROJECT CONTACT:
CLIENT:
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PLOT SCALE =	CHECKED - TEH	REVISED -	
PLOT DATE = 3/26/2013	DATE - 2/5/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
U.S. ROUTE 20 AT PROSPECT STREET

SCALE: | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-0024-00-WR	MCHENRY	115	66
		CONTRACT NO. 63532		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		