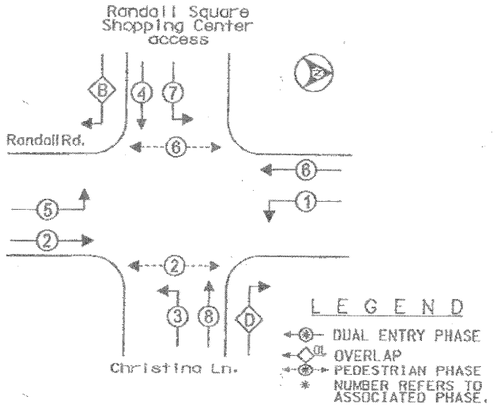
PROPOSED AND EXISTING

CONTROLLER SEQUENCE

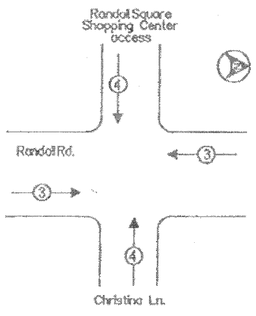


PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" (200MM) TRAFFIC SIGNAL SECTION
		12"(300MM) TRAFFIC SIGNAL SECTION
		12"(300MM) PEDESTRIAN SIGNAL SECTION
		12"(300MM) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD
		LUMINAIRE

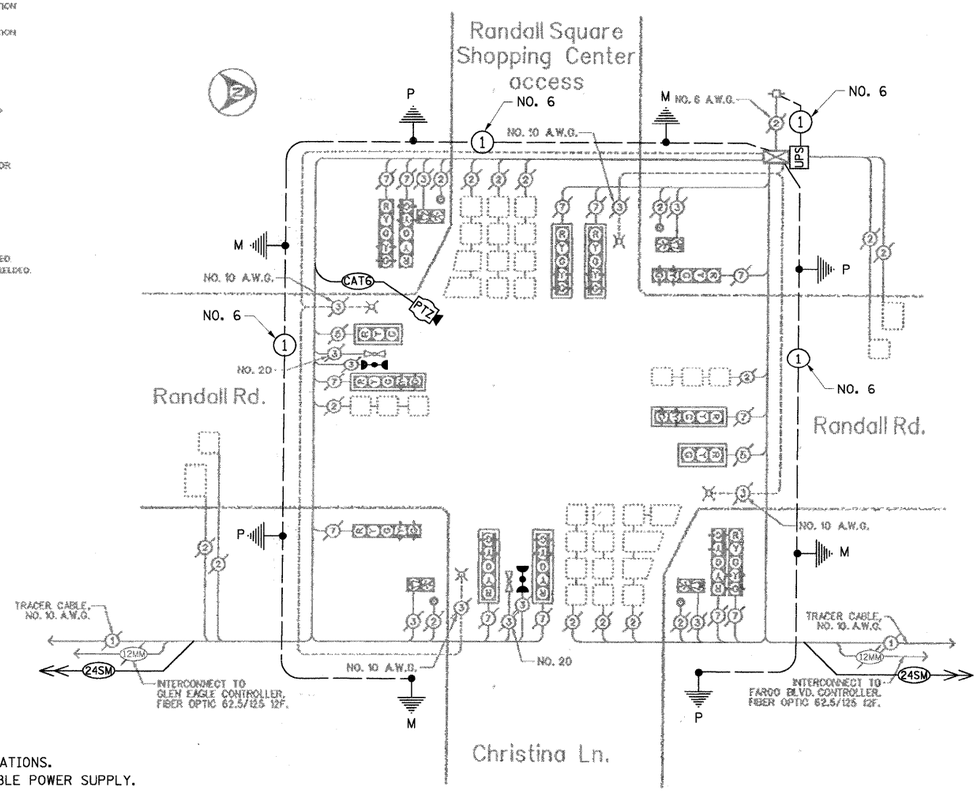
CONSTRUCTION NOTES:

1. REPLACE EXISTING CONTROLLER AND MALFUNCTION MANAGEMENT UNIT.
2. ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFITTED WITH L.E.D. INDICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST FOR THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
3. REPLACE EXISTING FIBER OPTIC INTERCONNECT CENTER.
4. REPLACE EXISTING UNINTERRUPTIBLE POWER SUPPLY AND CABINET ENCLOSURE.
5. INSTALL PTZ CAMERA ON THE COMBINATION MAST ARM AND POLE IN THE SOUTHWEST CORNER.
6. INSTALL NEW 50"X67" PAD FOR UNINTERRUPTIBLE POWER SUPPLY.
7. ADD NEW GROUNDING.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT IS "EAGLE".

PROPOSED AND EXISTING

CABLE PLAN



SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	24
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	FOOT	633
TERMINATE FIBER IN CABINET	EACH	6
FIBER OPTIC INTERCONNECT CENTER	EACH	1
SPLICE FIBER IN CABINET	EACH	6
OUTDOOR RATED NETWORK CABLE	FOOT	156
UPS BATTERY BACK-UP CABINET	EACH	1
VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
MALFUNCTION MANAGEMENT UNIT	EACH	1
ETHERNET MANAGED SWITCH, TYPE 1	EACH	1

METRO TRANSPORTATION GROUP, INC.
TRANSPORTATION PLANNING, ENGINEERING AND DESIGN
1300 GREENBROOK, HANOVER PARK, IL 60103 PH# 630 213-1000

REVISIONS		
NO.	DATE	DESCRIPTION

CABLE PLAN, PHASE DESIGNATION DIAGRAM and SCHEDULE OF QUANTITIES
RANDALL ROAD @ CHRISTINA LANE
GENEVA, ILLINOIS

FILE NAME: chris_cp.dgn
DATE: April 15, 1999
PROJECT NO.: 3857-00
SHEET NO.: 10 OF 24

FILE NAME = N:\kanecounty\j082673\Traffic\027_CAB_Randall-Christina.dgn	USER NAME = FPACIONE	DESIGNED - ABR	REVISED -
		DRAWN - FCP	REVISED -
	PLOT SCALE = NOT TO SCALE	CHECKED - MJT	REVISED -
	PLOT DATE = 11/3/2010	DATE - AUGUST 31, 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
RANDALL ROAD AND CHRISTINA LANE

SCALE: | SHEET NO. OF SHEETS | STA. -- | TO STA. --

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	09-00237-02-TL	KANE	100	27
		CONTRACT NO. 63525		
	ILLINOIS	FED. AID PROJECT		

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PLAN: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO., ALIGNMENT CHECKED, FIELD BOOK, CADD FILE NAME, STRUCTURE NO(S)/RTE. O/HD, BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO., ALIGNMENT CHECKED, FIELD BOOK, CADD FILE NAME, STRUCTURE NO(S)/RTE. O/HD, BY, DATE