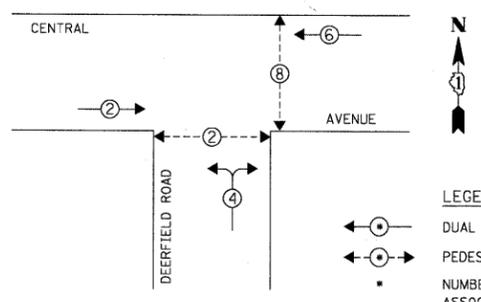


DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_ PLOTTED: \_\_\_\_\_  
 PLAN: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_ RT. OF WAY CHECKED: \_\_\_\_\_  
 NO.: \_\_\_\_\_ CAD FILE NAME: \_\_\_\_\_  
**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
 9575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500  
 C.B. ENGINEERING

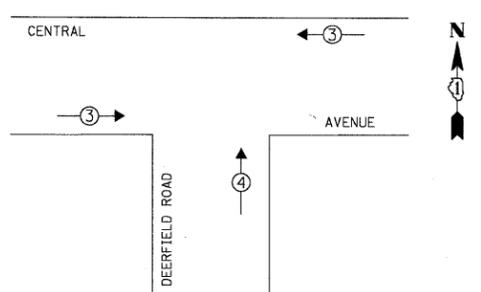
**CONTROLLER SEQUENCE**



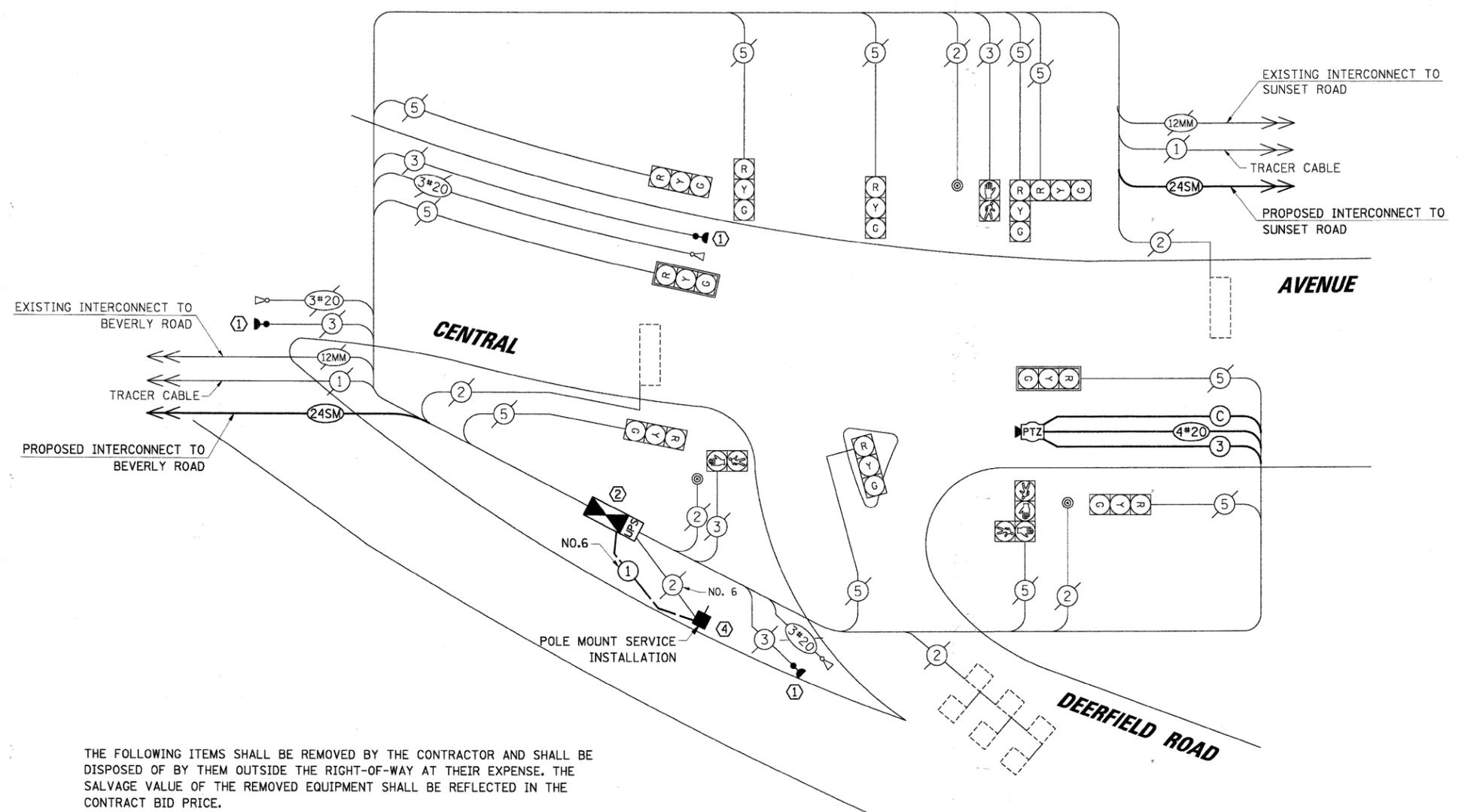
**LEGEND**  
 ← ● → DUAL ENTRY PHASE  
 ← ● → PEDESTRIAN PHASE  
 ● NUMBER REFERS TO ASSOCIATED PHASE

**EXISTING PHASE DESIGNATION DIAGRAM**

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



EXISTING EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	←	↑	



**CABLE PLAN**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH SERVICE INSTALLATION

**CONSTRUCTION NOTES:**

- ① ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFITTED WITH LED INDICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST FOR THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.
- ② RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.
- ③ THE TRAFFIC SIGNAL CONTROLLER SHALL BE NTCIP COMPATIBLE.
- ④ INSTALL NEW POLE MOUNT SERVICE INSTALLATION. INSTALL SERVICE GROUND CABLE IN EXISTING CONDUIT.
- ⑤ INSTALL NEW PTZ CAMERA ON EXISTING COMBINATION MAST ARM.

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

L.C.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED	% OPERATION	
SIGNAL (RED)	10		10	0.50	50.0
(YELLOW)	10		19	0.10	19.0
(GREEN)	10		11	0.40	44.0
ARROW	-		9	0.10	-
PED. SIGNAL	4		9	1.00	36.0
CONTROLLER	1		100	1.00	100.0
LUMINAIRE	-		250	0.50	-
L.E.D. ST. NAME SIGN	-		64	0.50	-
VIDEO SYSTEM	1		150	1.00	150.0
BATTERY BACKUP	1		25	1.00	25.0

ENERGY COSTS TO: TOTAL = 424.0

**CITY OF HIGHLAND PARK**  
 1707 ST. JOHNS AVENUE  
 HIGHLAND PARK, IL 60035-3593  
 ENERGY SUPPLY: CONTACT: JEAN WILL  
 PHONE: (847) 816-5459  
 COMPANY: COMED

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
REMOTE-CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
VIDEO ENCODER	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	3
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	FOOT	42
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	195
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	195
ELECTRIC CABLE IN CONDUIT, 4/C # 20, VIDEO	FOOT	195