

CONTROLLER SEQUENCE

PHASE DESIGNATION DIAGRAM

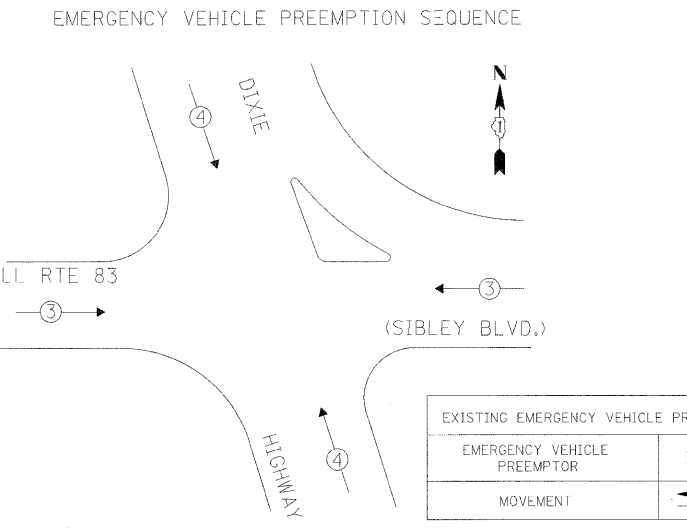
LEGEND

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- OVERLAP

\* NUMBER REFERS TO ASSOCIATED PHASE

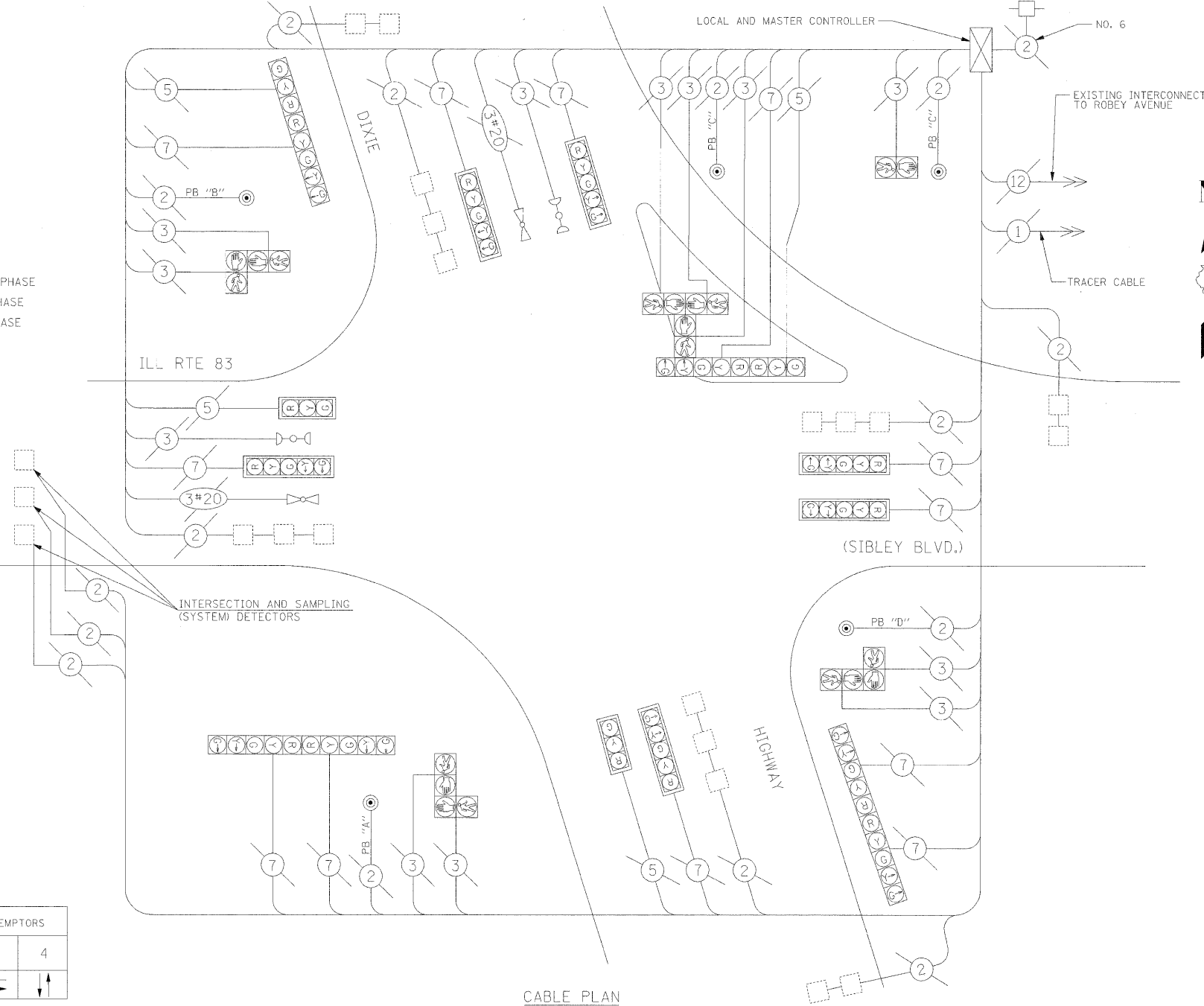
RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP PHASE	PERMISSIVE PHASE	PROTECTED PHASE
A =	2 +	3
D =	8 +	1



EXISTING EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↑



CABLE PLAN

CABLE PLAN LEGEND

PROPOSED	EXISTING	DESCRIPTION
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
☐	☐	CONTROLLER CABINET
☐	☐	SERVICE INSTALLATION
☐	☐	TELEPHONE CONNECTION
☐	☐	MAGNETIC DETECTOR
☐	☐	PUSHBUTTON DETECTOR
☐	☐	VEHICLE DETECTOR, INDUCTION LOOP
②	②	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
R Y G Y E	R Y G Y E	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
"P"	"P"	RAILROAD CONTROL CABINET
"E"	"E"	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
"E"	"E"	ILLUMINATE SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
①	①	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
②④	②④	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MMI2F & SM12F
☐	☐	MICROWAVE VEHICLE SENSOR
V	V	VIDEO DETECTOR
C	C	CLOSED CIRCUIT TV
☐	☐	EMERGENCY VEHICLE LIGHT DETECTOR
☐	☐	CONFIRMATION BEACON
B	B	UNINTERRUPTIBLE POWER SUPPLY

NOTE:  
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8  
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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

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

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	135		0.50	1080.00
(YELLOW)	16	135		0.25	540.00
(GREEN)	16	135		0.25	540.00
ARROW	24	135		0.10	324.00
PED. SIGNAL	10	90		1.00	900.00
CONTROLLER	1	100		1.00	100.00
ILLUM. SIGN		84			
FLASHER					
ENERGY COSTS TO:				TOTAL =	3484.00
CITY OF HARVEY 15320 BROADWAY AVENUE HARVEY, IL 60426					
ENERGY SUPPLY CONTACT:	STEVE FITZGERALD				
PHONE:	(708) 235-2327				
COMPANY:	COMMONWEALTH EDISON				