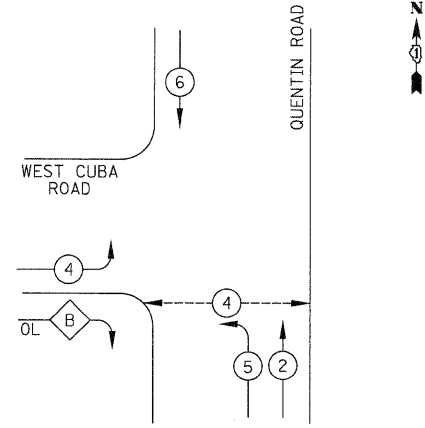
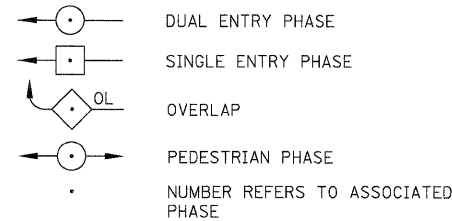


EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND



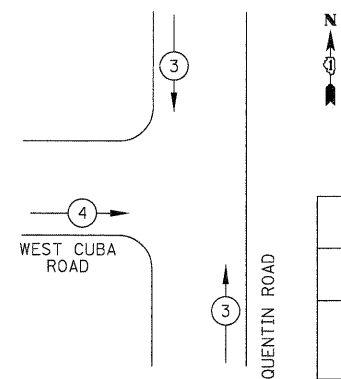
PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
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B = 4 + 5

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

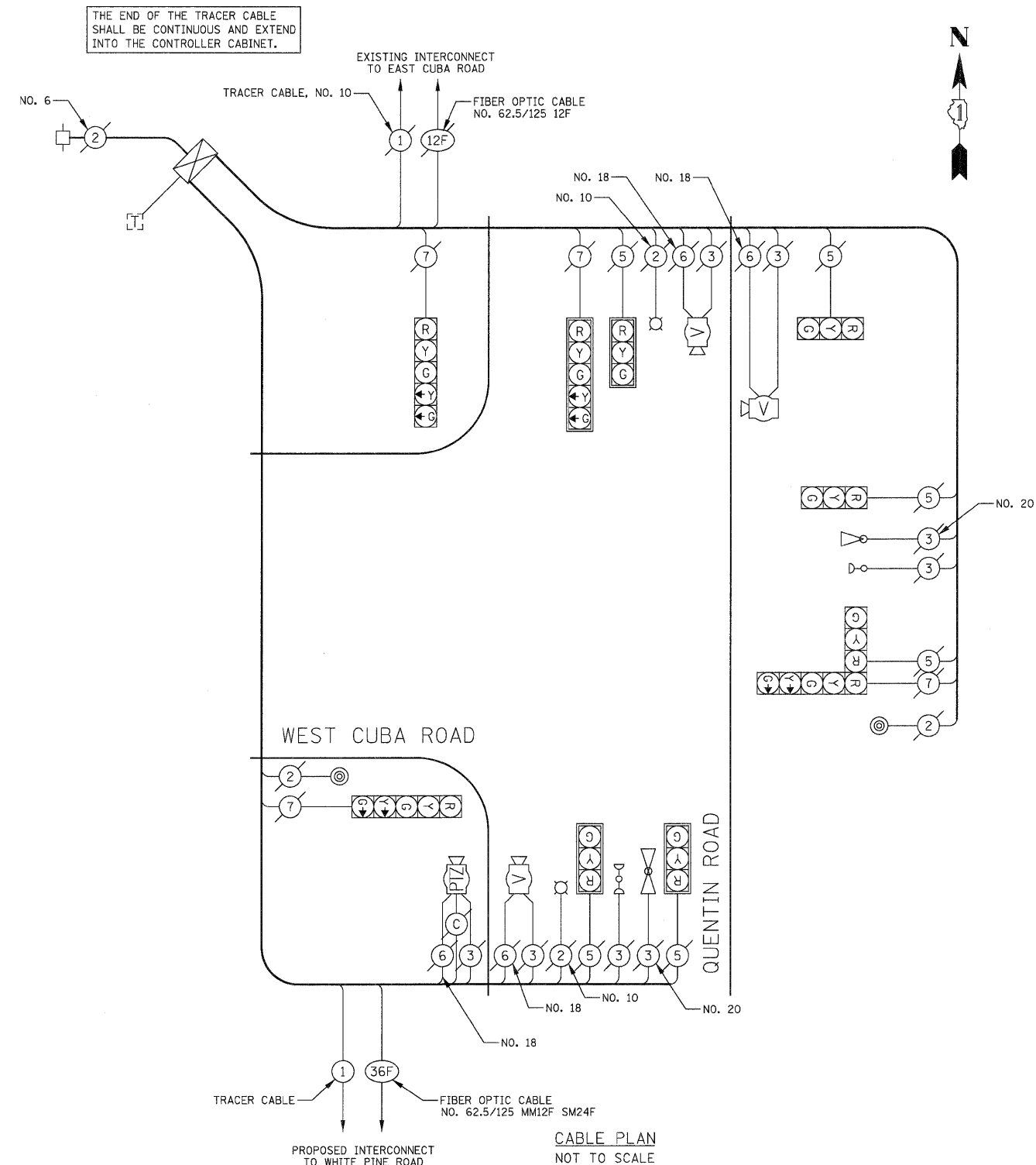


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑ ↓	→

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

TYPE	NO. LAMPS	WATTAGE		OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	10		10	0.50	50.0
(YELLOW)	10		19	0.25	47.5
(GREEN)	10		11	0.25	27.5
ARROW	8		9	0.10	7.2
PED. SIGNAL			9	1.00	
CONTROLLER	1		100	1.00	100.0
VIDEO SYSTEMS	1		150	1.00	150.0
LUMINAIRE	2	400		1.00	800.0
FLASHER				0.50	
TOTAL =					1182.2

ENERGY COSTS TO: LAKE COUNTY DIVISION OF TRANSPORTATION  
600 W. WINCHESTER ROAD  
LIBERTYVILLE, IL 60048  
CONTACT: DONALD PESCE  
PHONE: (847) 870-2057  
COMPANY: COM ED



CABLE PLAN NOT TO SCALE

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

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

**CIVILTECH**  
450 E Devon Ave, Suite 300  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DESIGNED - BRD	REVISED -
DRAWN - BRD	REVISED -
CHECKED - JJE	REVISED -
DATE - 10/24/2011	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NO SCALE

CABLE PLAN, SEQUENCE OF OPERATION  
& EMERGENCY VEHICLE PREEMPTION SEQUENCE  
QUENTIN ROAD AT WEST CUBA ROAD  
SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
364	02-00051-08-WR	LAKE	188	108
CONTRACT NO. 63649				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				