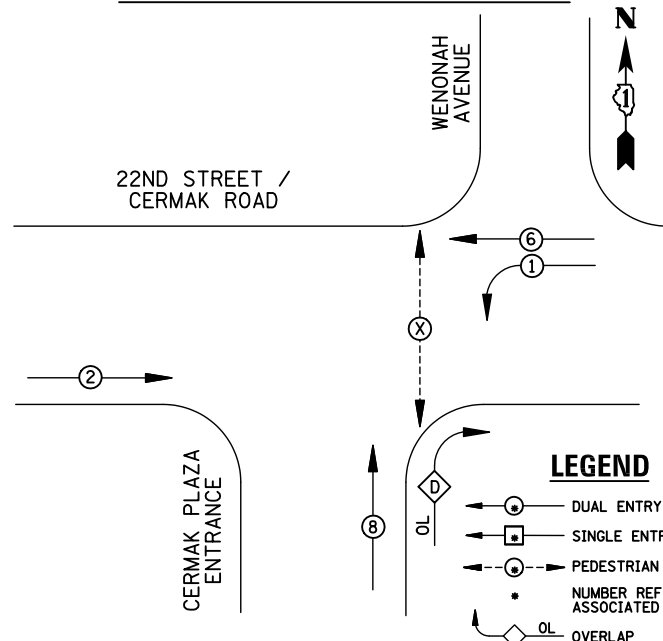
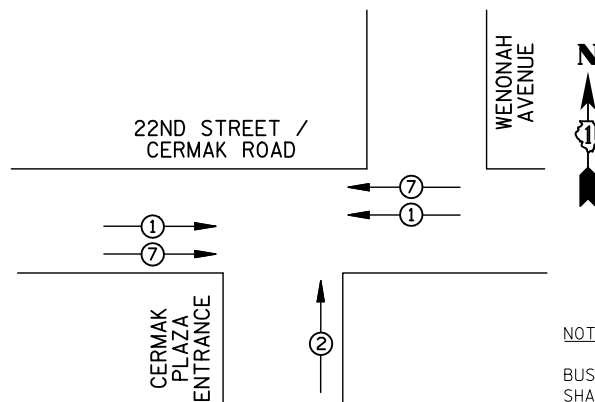


**EXISTING CONTROLLER SEQUENCE**



**EXISTING PHASE DESIGNATION DIAGRAM**



**EXISTING EMERGENCY VEHICLE AND BUS PREEMPTION SEQUENCE**

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE INCAND. LED	%OPERATION	TOTAL WATTAGE	
SIGNAL (RED)	12	135 17	0.50	102	
(YELLOW)	12	135 25	0.25	75	
(GREEN)	12	135 15	0.25	45	
ARROW	8	135 12	0.10	9.6	
PED. SIGNAL	2	90 25	1.00	50	
CONTROLLER	1	100 100	1.00	100	
ILLUM. SIGN		84 100	0.50		
FLASHER		135 25	0.50		
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096				TOTAL =	381.6
ENERGY SUPPLY	CONTACT: X				
	PHONE: X				
	COMPANY: X				

FILE NAME = \MICROST\352108\07-4795.DGN  
USER NAME = JGC  
DESIGNED - BPT  
DRAWN - JGC/RDS  
PLOT SCALE = NOT TO SCALE  
PLOT DATE = X

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

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.

- 2 EACH TRAFFIC SIGNAL POST
- 8 EACH SIGNAL HEAD, 3-SECTION
- 4 EACH SIGNAL HEAD, 5-SECTION
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH PEDESTRIAN PUSH-BUTTON

**RIGHT TURN OVERLAP PHASE DESIGNATION**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

**LEGEND**

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- ⬇ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- ◇ OL OVERLAP

**NOTE:**

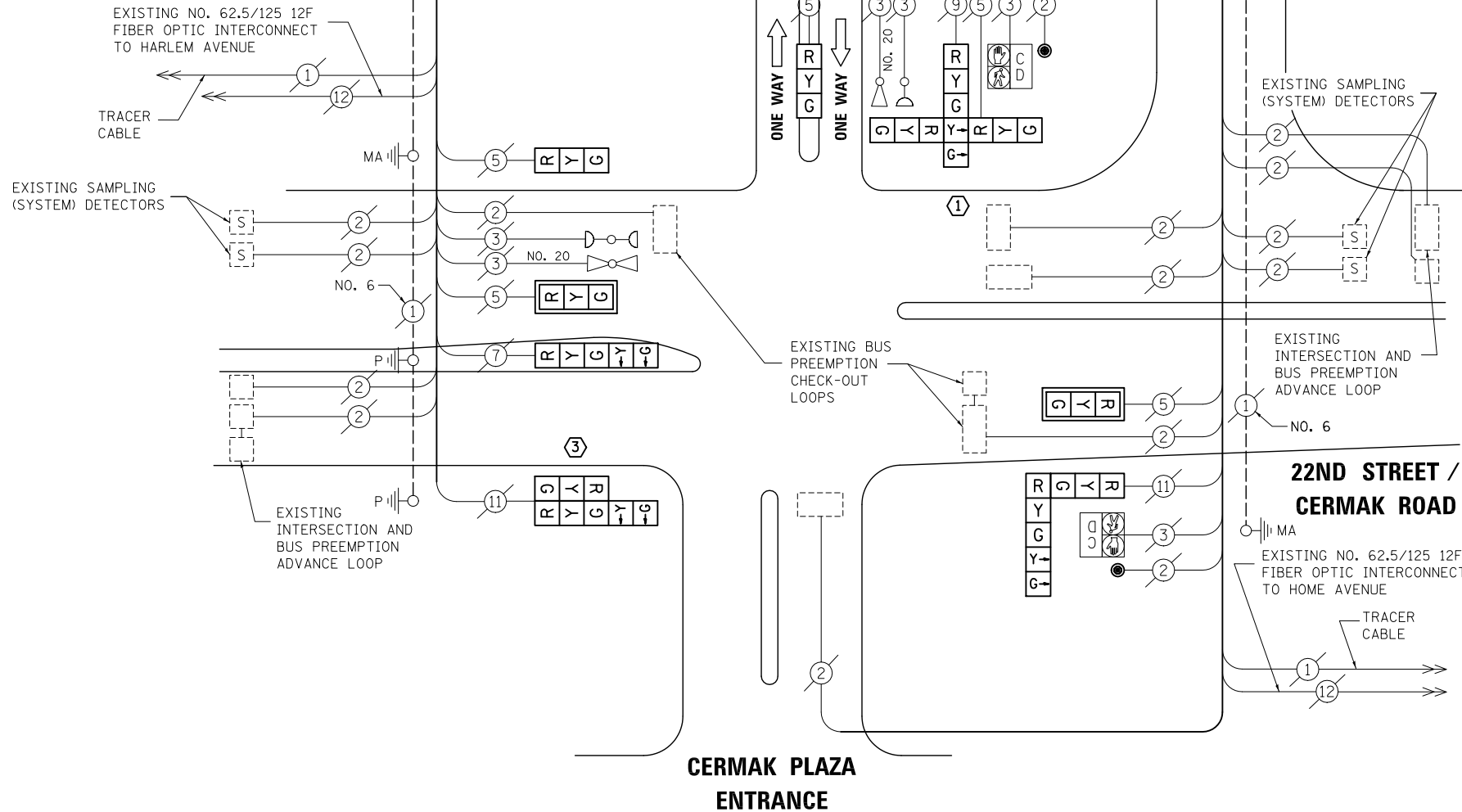
BUS PREEMPTION IS LOW PRIORITY AND SHALL CALL NORMAL PHASE 2 AND 6.

DUE TO CONTROLLER CONFIGURATION AND SOFTWARE LIMITATIONS, EVP AND BUS SEQUENCES ARE NON-CONVENTIONAL.

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1

DESIGNED - BPT  
DRAWN - JGC/RDS  
CHECKED - BPT  
DATE - 12-04-13



**CABLE PLAN**

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

- ① REPLACE 14 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION
  - ③ REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION
- (SEE GENERAL NOTES)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION**  
22ND STREET / CERMAK ROAD AT CERMAK PLAZA / WENONAH AVENUE  
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

PREPARED BY:  
**CEMCON, Ltd.**  
Consulting Engineers, Land Surveyors & Planners  
2280 White Oak Circle, Suite 100  
Aurora, Illinois 60504-9675  
Ph: 630.862.2100 Fax: 630.862.2199  
E-Mail: cadd@cemcon.com Website: www.cemcon.com

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2013-054TS	COOK	92	22

CONTRACT NO. 60X29  
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TS# 4795  
BERWYN