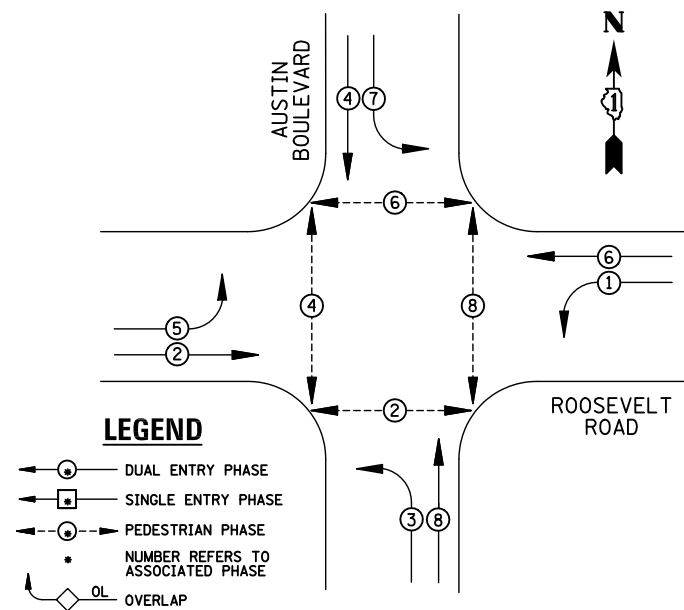
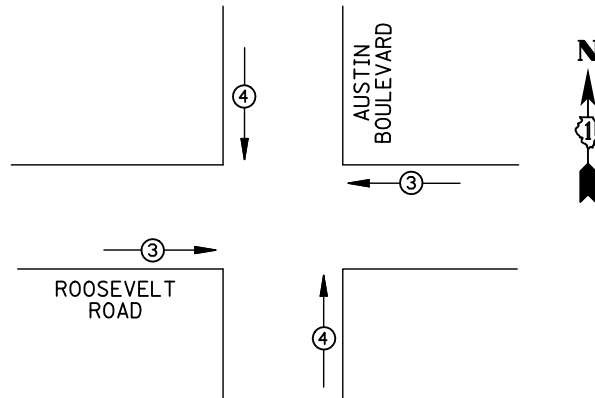


**EXISTING CONTROLLER SEQUENCE**



**EXISTING PHASE DESIGNATION DIAGRAM**



**EXISTING EMERGENCY VEHICLE AND BUS PREEMPTION SEQUENCE**

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

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

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

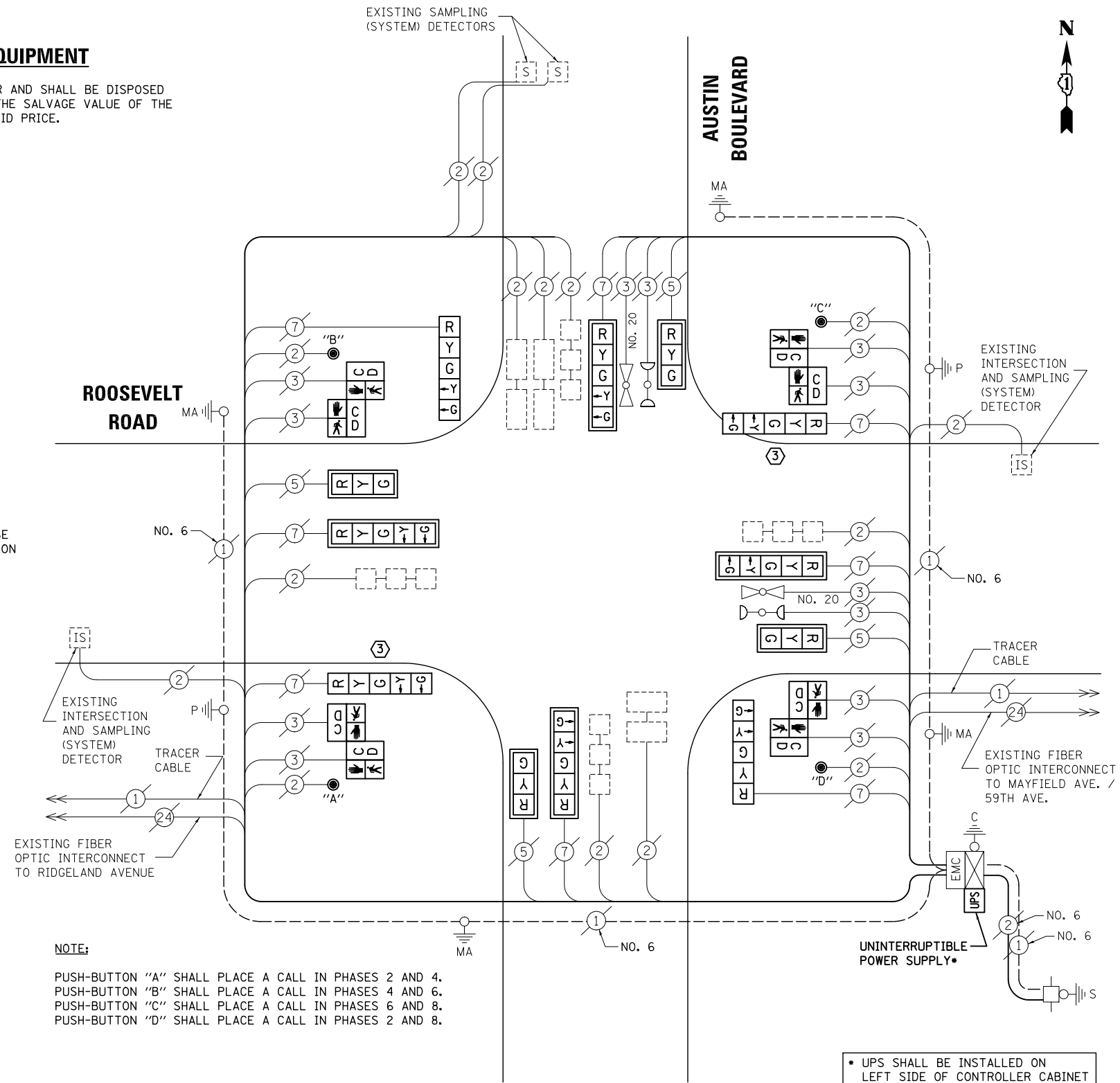
**SCHEDULE OF QUANTITIES**

**ITEM**

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

UNIT	QUANTITY
EACH	1
EACH	2
EACH	4
EACH	4
EACH	4
EACH	4
EACH	4
EACH	8
EACH	1
EACH	1
EACH	1
EACH	4

EXISTING SAMPLING (SYSTEM) DETECTORS



**NOTE:**

PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.  
 PUSH-BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.  
 PUSH-BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.  
 PUSH-BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

**CABLE PLAN**

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

• UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	2	100	100	1.00	200
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 = 641.2
ENERGY SUPPLY	CONTACT: X				
	PHONE: X				
	COMPANY: X				
FILE NAME = \MICROST\352108\65-5730.DGN	USER NAME = JGC	DESIGNED - BPT	REVISED -		
		DRAWN - JGC/RDS	REVISED -		
	PLOT SCALE = NOT TO SCALE	CHECKED - BPT	REVISED -		
	PLOT DATE = X	DATE - 12-04-13	REVISED -		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN,  
PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION  
ROOSEVELT ROAD AT AUSTIN BOULEVARD

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

TS# 5730  
CICERO/CHICAGO

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	72

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