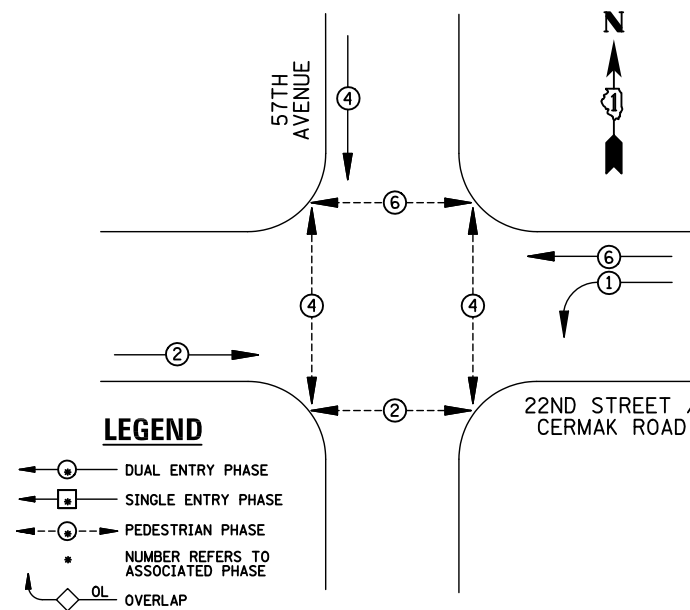
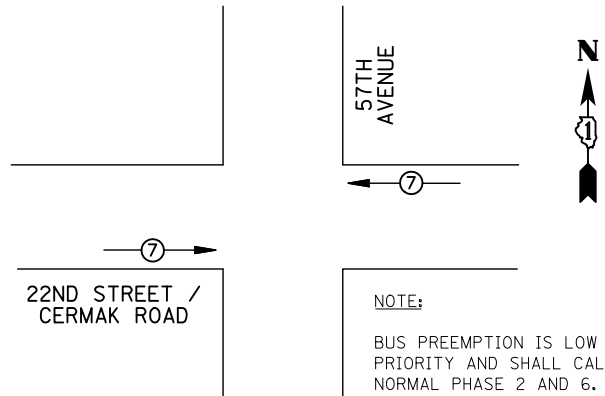


**EXISTING CONTROLLER SEQUENCE**



**EXISTING PHASE DESIGNATION DIAGRAM**



| PREEMPTORS |   |
|------------|---|
| PREEMPTOR  | 7 |
| MOVEMENT   | → |

**EXISTING BUS PREEMPTION SEQUENCE**

**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.

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

- 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
- ⑤ REPLACE 10 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION (SEE GENERAL NOTES)

**SCHEDULE OF QUANTITIES**

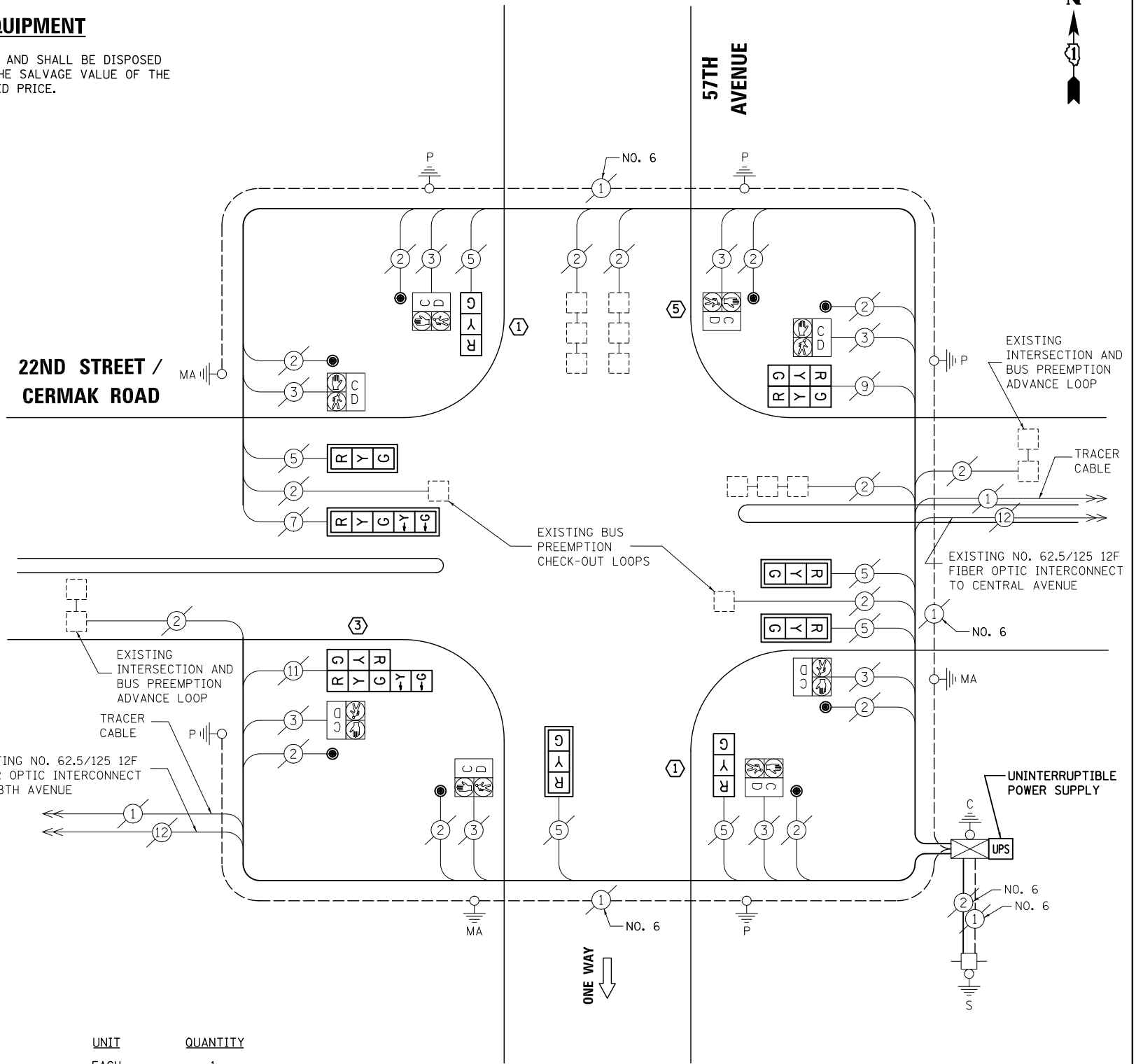
**ITEM**

- MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
- TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
- TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
- TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
- SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
- SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
- SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
- SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
- SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
- TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
- PEDESTRIAN PUSH-BUTTON
- MODIFY EXISTING CONTROLLER CABINET
- REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
- UNINTERRUPTABLE POWER SUPPLY, SPECIAL

**UNIT**

**QUANTITY**

- EACH 1
- EACH 1
- EACH 2
- EACH 1
- EACH 4
- EACH 2
- EACH 1
- EACH 1
- EACH 1
- EACH 6
- EACH 8
- EACH 1
- EACH 1
- EACH 1



**CABLE PLAN**

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

| I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS   |                           |                 |           |            | TOTAL WATTAGE |
|---|---------------------------|-----------------|-----------|------------|---------------|
| TYPE  | NO. LAMPS                 | WATTAGE INCAND. | LED       | %OPERATION |               |
| SIGNAL (RED)  | 11                        | 135             | 17        | 0.50       | 93.5          |
| (YELLOW)  | 11                        | 135             | 25        | 0.25       | 68.75         |
| (GREEN)   | 11                        | 135             | 15        | 0.25       | 41.25         |
| ARROW   | 4                         | 135             | 12        | 0.10       | 4.8           |
| PED. SIGNAL   | 8                         | 90              | 25        | 1.00       | 200           |
| CONTROLLER  | 1                         | 100             | 100       | 1.00       | 100           |
| ILLUM. SIGN   |                           | 84              | 100       | 0.50       |               |
| FLASHER   |                           | 135             | 25        | 0.50       |               |
| ENERGY COSTS TO:<br>ILLINOIS DEPARTMENT OF TRANSPORTATION<br>201 WEST CENTER COURT<br>SCHAUMBURG, IL 60196-1096 |                           |                 |           |            | TOTAL = 508.3 |
| ENERGY SUPPLY CONTACT: X  |                           |                 |           |            |               |
| PHONE: X  |                           |                 |           |            |               |
| COMPANY: X  |                           |                 |           |            |               |
| FILE NAME = \MICROST\352108\49-4775.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  
22ND STREET / CERMAK ROAD AT 57TH AVENUE

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

PREPARED BY:  
**CEMCON, Ltd.**  
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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           | 62        |

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

TS# 4775  
CICERO