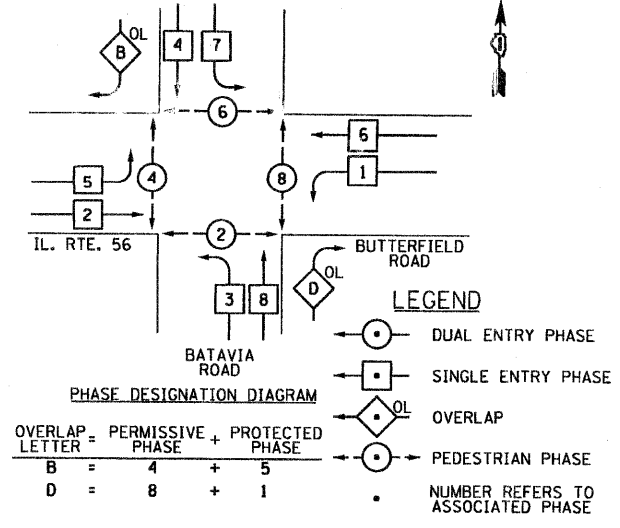
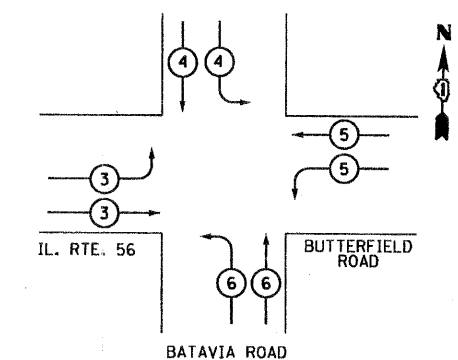


PROPOSED CONTROLLER SEQUENCE



IL. RTE. 56

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



| PROPOSED EMERGENCY VEHICLE PREEMPTORS | | | | |
|---------------------------------------|---|---|---|---|
| EMERGENCY VEHICLE PREEMPTOR | 3 | 4 | 5 | 6 |
| MOVEMENT | | | | |

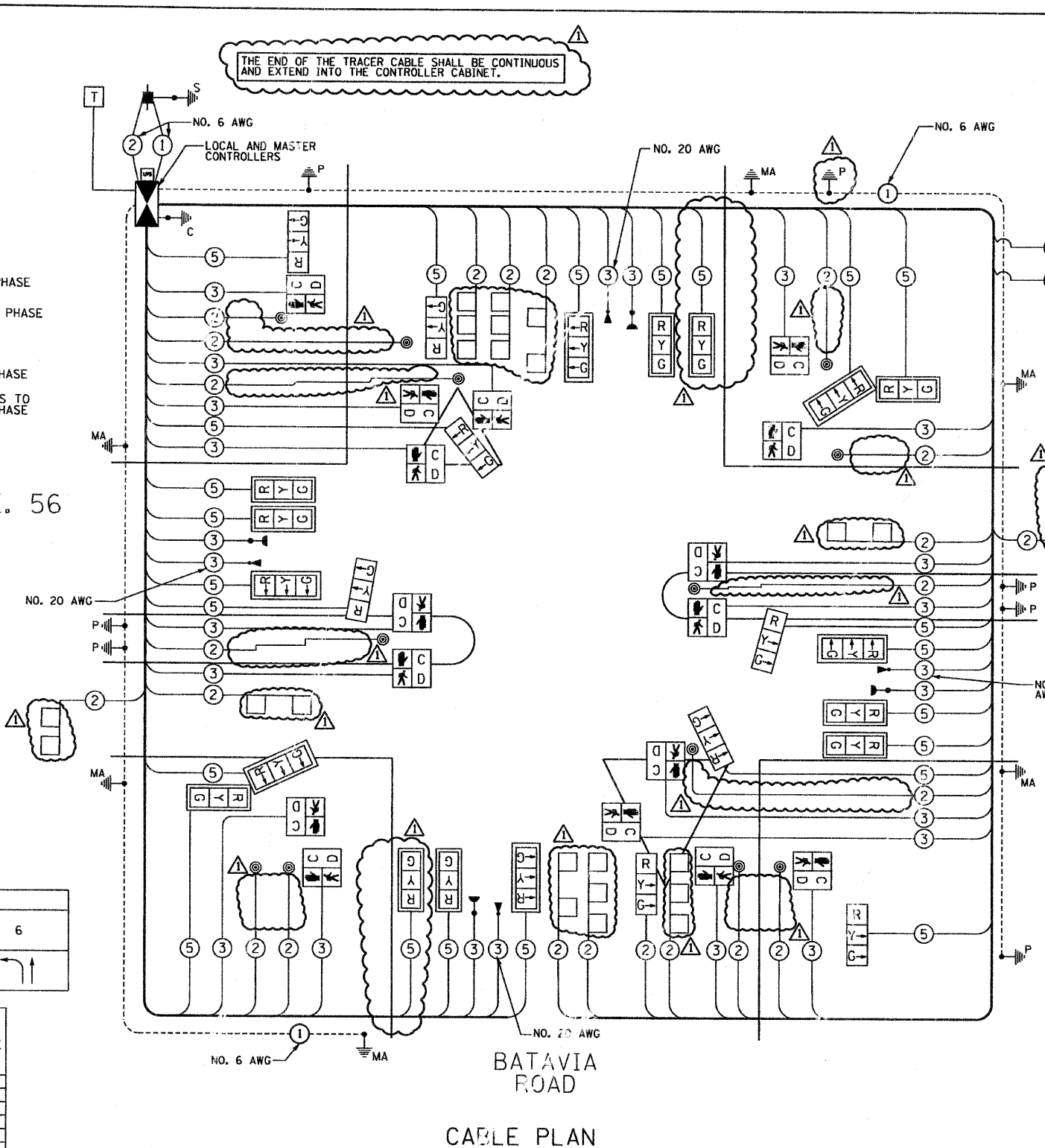
| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | TOTAL WATTAGE |
|--|--------------|---------|-----------------|---------|---------------|
| TYPE | NO. OF LAMPS | INCAND. | LED % OPERATION | | |
| SIGNAL (RED) | 24 | 135 | 17 | 0.50 | 204 |
| (YELLOW) | 24 | 135 | 25 | 0.25 | 150 |
| (GREEN) | 24 | 135 | 15 | 0.25 | 90 |
| ARROW | 135 | 12 | 0.10 | | |
| PED. SIGNAL | 16 | 90 | 25 | 1.00 | 400 |
| CONTROLLER | 1 | 100 | 100 | 1.00 | 100 |
| ILLUM. SIGN | | 252 | 0.05 | | |
| FLASHER | | | | 0.50 | |
| ENERGY COSTS TO: | | | | TOTAL = | 944 |

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS / DISTRICT 1
 201 WEST CENTER COURT / SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: MS. MIKKI WILLIAMS
 PHONE: (630) 691-4721
 COMPANY: COMED

FILE NAME = TS-22.dgn
 PLOT DATE = 12/23/2010

SPAAN Tech, Inc.
 311 S. Wacker Drive, Suite 2400
 Chicago, IL 60606



CABLE PLAN

SCHEDULE OF QUANTITIES

| ITEM | UNIT | QUANTITY |
|---|-------|----------|
| SIGN PANEL - TYPE 1 | SQ FT | 55 |
| SIGN PANEL - TYPE 2 | SQ FT | 30 |
| CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL | FOOT | 580 |
| CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL | FOOT | 213 |
| CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL | FOOT | 44 |
| CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL | FOOT | 29 |
| CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL | FOOT | 77 |
| CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL | FOOT | 53 |
| CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL | FOOT | 991 |
| HANDHOLE | EACH | 6 |
| HEAVY-DUTY HANDHOLE | EACH | 2 |
| DOUBLE HANDHOLE | EACH | 4 |
| TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 922 |
| FULL-ACTUATED CONTROLLER AND TYPE V CABINET | EACH | 1 |
| TRANSCIVER - FIBER OPTIC | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1358 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 6222 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 6162 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 2982 |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C | FOOT | 28 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT. | EACH | 3 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. | EACH | 4 |
| STEEL MAST ARM ASSEMBLY AND POLE, 22 FT. | EACH | 2 |
| STEEL MAST ARM ASSEMBLY AND POLE, 44 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 50 FT. | EACH | 2 |
| STEEL MAST ARM ASSEMBLY AND POLE, 56 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 24 |
| CONCRETE FOUNDATION, TYPE C | FOOT | 4 |
| CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER | FOOT | 20 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 43 |
| CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER | FOOT | 21 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED | EACH | 16 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4 |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 6 |
| PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM | EACH | 16 |
| INDUCTIVE LOOP DETECTOR | EACH | 10 |
| DETECTOR LOOP, TYPE I | EACH | 875 |
| LIGHT DETECTOR | EACH | 4* |
| LIGHT DETECTOR AMPLIFIER | EACH | 1* |
| PEDESTRIAN PUSH-BUTTON | EACH | 12 |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 13 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 8 |
| TEMPORARY TRAFFIC SIGNAL TIMINGS | EACH | 1 |
| SERVICE INSTALLATION, POLE MOUNT | EACH | 1 |
| UNINTERRUPTIBLE POWER SUPPLY | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C | FOOT | 1497 |
| ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED | FOOT | 1862 |

* DENOTES 100% OF COST TO CITY OF WARRENVILLE

| | |
|--------------------|-----------|
| DESIGNED - R.A.S. | REVISED - |
| DRAWN - D.L. | REVISED - |
| CHECKED - A.D.O. | REVISED - |
| DATE - AUGUST 2010 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN,
 AND PHASE DESIGNATION DIAGRAM
 IL ROUTE 56 (BUTTERFIELD ROAD) AND BATAVIA ROAD

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 365 | (58859) WRS-3 | DuPAGE | 466 | 301 |
| CONTRACT NO. 62420 | | | | |

REVISD 12-20-10 TS-18
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT