CIVIL ENGINEERING CONSULTANTS
RWA
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## SCHEDULE OF QUANTITIES

| QUANTITY | UNIT | ITEM |
|---|---|---|
| 90 | SQ FT | SIGN PANEL - TYPE 1 |
| 1 | EACH | SERVICE INSTALLATION - GROUND MOUNTED |
| 1406 | FOOT | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. |
| 59 | FOOT | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. |
| 67 | FOOT | UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA. |
| 1550 | FOOT | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. |
| 8 | EACH | HANDHOLE |
| 4 | EACH | HEAVY-DUTY HANDHOLE |
| 5 | EACH | DOUBLE HANDHOLE |
| 1 | EACH | TRANSCEIVER - FIBER OPTIC |
| 3865 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C |
| 6977 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C |
| 6140 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C |
| 4033 | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C |
| 8637 | FOOT | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR |
| 58 | FOOT | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C |
| 1392 | FOOT | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C |
| 4 | EACH | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. |
| 2 | EACH | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. |
| 2 | EACH | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT. |
| 20 | FOOT | CONCRETE FOUNDATION, TYPE A |
| 4 | FOOT | CONCRETE FOUNDATION, TYPE C |
| 26 | FOOT | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER |
| 42 | FOOT | CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER |
| 12 | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED |
| 4 | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED |
| 4 | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED |
| 4 | EACH | SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED |
| 4 | EACH | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |
| 4 | EACH | PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |
| 16 | EACH | TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM |
| 21 | EACH | INDUCTIVE LOOP DETECTOR |
| 467 | FOOT | DETECTOR LOOP, TYPE I |
| 684 | FOOT | PREFORMED DETECTOR LOOP |
| * 4 | EACH | LIGHT DETECTOR |
| * 1 | EACH | LIGHT DETECTOR AMPLIFIER |
| 12 | EACH | PEDESTRIAN PUSH-BUTTON |
| 1 | EACH | TEMPORARY TRAFFIC SIGNAL INSTALLATION |
| 1 | EACH | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT |
| 14 | EACH | REMOVE EXISTING HANDHOLE |
| 9 | EACH | REMOVE EXISTING CONCRETE FOUNDATION |
| 1 | EACH | TEMPORARY TRAFFIC SIGNAL TIMING |
| * 1628 | FOOT | EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C |
| 1 | EACH | UNINTERRUPTABLE POWER SUPPLY, SPECIAL |
| 1 | EACH | FULL-ACTUATED CONTROLLER AND SUPER P CABINET, TYPE IV, SPECIAL |
| ** 4 | EACH | ILLUMINATED STREET NAME SIGN |

* 100% COST TO THE CITY OF NAPERVILLE

** 50% COST TO THE CITY OF NAPERVILLE
50% COST TO THE CITY OF AURORA

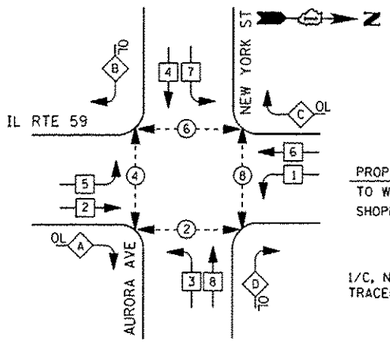
I. D. O. T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

| TYPE | NO. LAMPS | WATTAGE | | % OPERATIONS | TOTAL WATTAGE |
|---|---|---|---|---|---|
| | | INCAND. | LED | | |
| SIGNAL (RED) | 28 | 135 | 17 | 0.50 | 238 |
| (YELLOW) | 28 | 135 | 25 | 0.25 | 175 |
| (GREEN) | 28 | 135 | 15 | 0.25 | 105 |
| ARROW | 24 | 135 | 12 | 0.10 | 29 |
| PED. SIGNAL | 16 | 90 | 25 | 1.00 | 400 |
| CONTROLLER | 1 | 100 | 100 | 1.00 | 100 |
| ILLUM. SIGN | 4 | -- | 90 | 0.50 | 180 |
| | | | | TOTAL = | 1227 |

ENERGY COSTS- BILLED TO: IDOT - DISTRICT 1
201 W. CENTER CT.
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT BRIAN CHAMBERLAIN
PHONE NAPERVILLE ELECTRIC DEPT.
630-420-6653

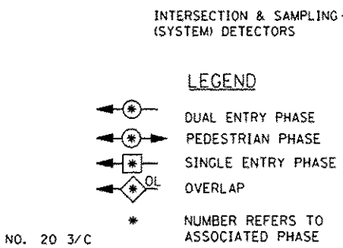
### CONTROLLER SEQUENCE

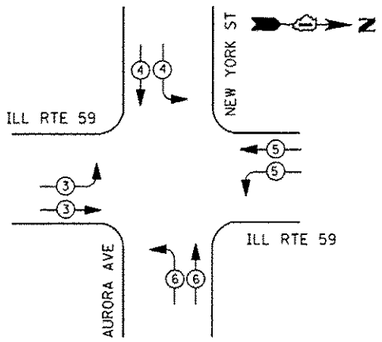



### PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

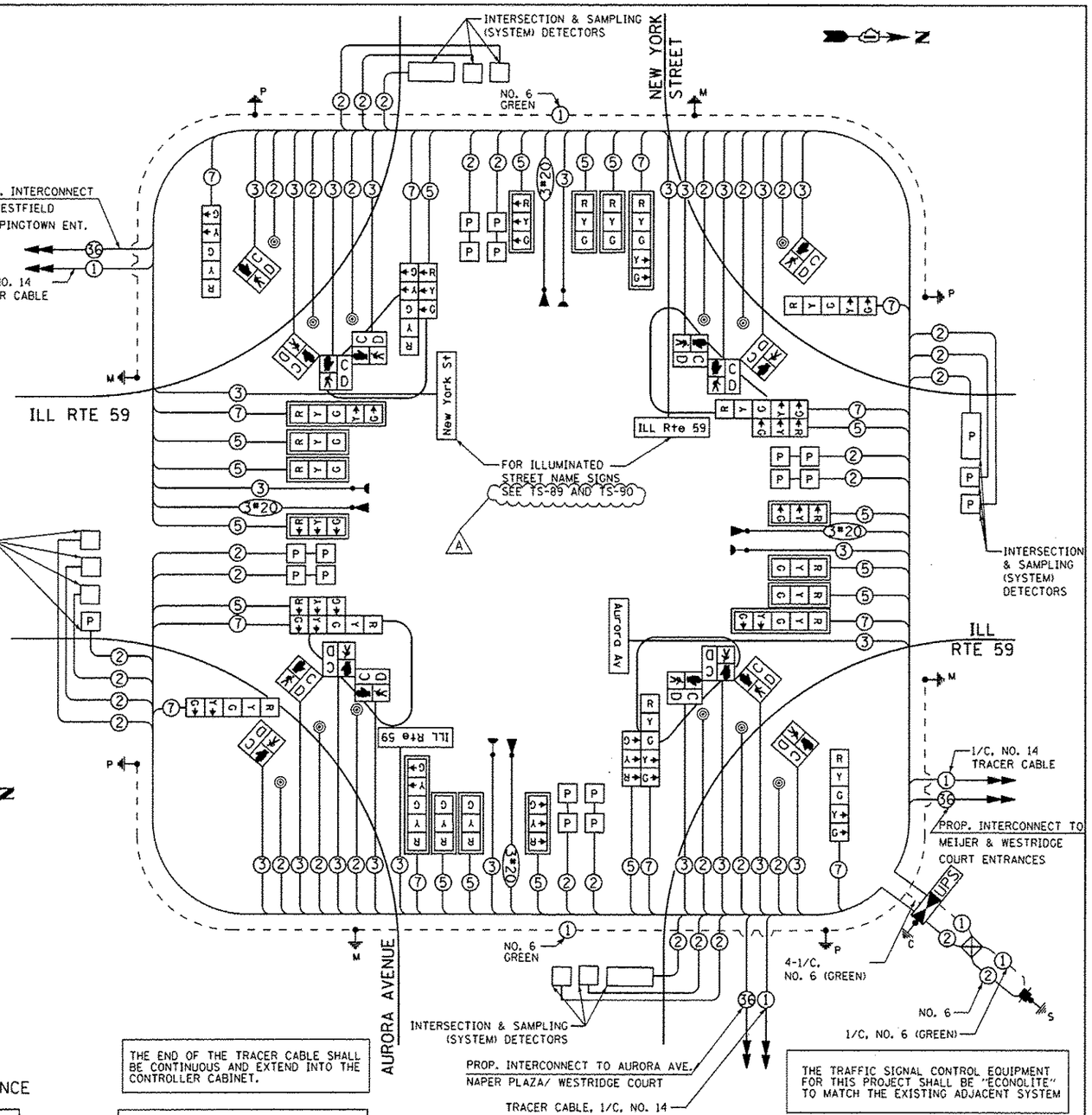
| OVERLAP LETTER | | PERMISSIVE PHASE | | PROTECTED PHASE |
|---|---|---|---|---|
| A | = | 2 | + | 3 |
| B | = | 4 | + | 5 |
| C | = | 6 | + | 7 |
| D | = | 8 | + | 1 |




### EMERGENCY VEHICLE PREEMPTION SEQUENCE

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




CABLE PLAN

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

FOR COMBINATION POLE LIGHTING AND WIRING SEE ROADWAY LIGHTING PLANS SHEET 1 of 15, TS-94 AND TS-96.

ALL LOOPS WITHIN LIMITS OF PCC ROADWAY RECONSTRUCTION SHALL BE PREFORMED TYPE

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

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

| | | | | |
|---|---|---|---|---|
| FILE NAME = K:\Projects\B98059\Design\Sheet Files\B7219-ws50cabNY.dgn | USER NAME = $USER$ | DESIGNED - DW | REVISED Addendum A 02/20/2013 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION |
| | PLOT SCALE = $SCALE$ | DRAWN - JDH | REVISED - | |
| | PLOT DATE = 1/24/2013 | CHECKED - KMM | REVISED - | |
| | | DATE - | REVISED - | |

ILLINOIS ROUTE 59 AND NEW YORK ST./AURORA AVE. - CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 338 | (112 & 113) WRS-7 | DUPAGE | 1156 | 610 |
| | TS-17 | CONTRACT NO. 60R30 | | |
| | ILLINOIS FED. AID PROJECT | | | |