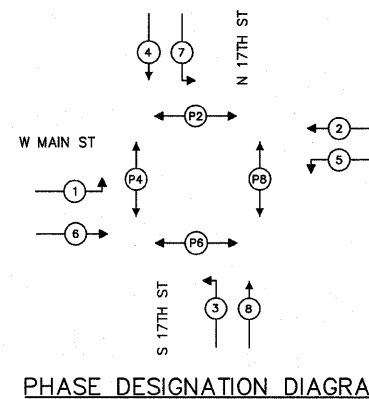
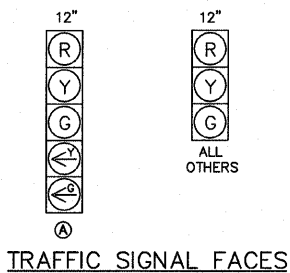


| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------|------------------|--------------|-----------|
| 9167 | 05-00207-00-PV | ST. CLAIR | 89 | 44 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

| LOOP # | DIRECTION | PHASE | LOOP SIZE (FOOT) | REQUIRED NUMBER OF TURNS | CALCULATED INDUCTANCE (microhenries) | CALCULATED RESISTANCE (ohms) |
|--------|--------------|-------|------------------|--------------------------|--------------------------------------|------------------------------|
| 1 | SB RT / THRU | 4 | 6' X 50' | 3 - 6 - 3 | 840 | 2.8 |
| 2 | SB LT | 7 | 6' X 50' | 3 - 6 - 3 | 842 | 2.9 |
| 3 | WB RT | 2 | 6' X 50' | 3 - 6 - 3 | 825 | 2.5 |
| 4 | WB THRU | 2 | 6' X 50' | 3 - 6 - 3 | 828 | 2.5 |
| 5 | WB LT | 5 | 6' X 50' | 3 - 6 - 3 | 830 | 2.6 |
| 6 | NB RT / THRU | 8 | 6' X 50' | 3 - 6 - 3 | 795 | 1.8 |
| 7 | NB LT | 3 | 6' X 50' | 3 - 6 - 3 | 798 | 1.9 |
| 8 | EB RT / THRU | 6 | 6' X 50' | 3 - 6 - 3 | 818 | 2.3 |
| 9 | EB LT | 1 | 6' X 50' | 3 - 6 - 3 | 821 | 2.4 |



SEQUENCE OF OPERATIONS

| PHASE Ø | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET | | | | | | | |
|-------------------------------|--|--------|--------|--------|--------|--------|--------|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| MOVEMENT | → | ↔ | ↑ | ↕ | ← | ↔ | ↓ | ↕ |
| CONCURRENT MOVEMENT PERMITTED | 5 OR 6 | 5 OR 6 | 7 OR 8 | 7 OR 8 | 1 OR 2 | 1 OR 2 | 3 OR 4 | 3 OR 4 |

