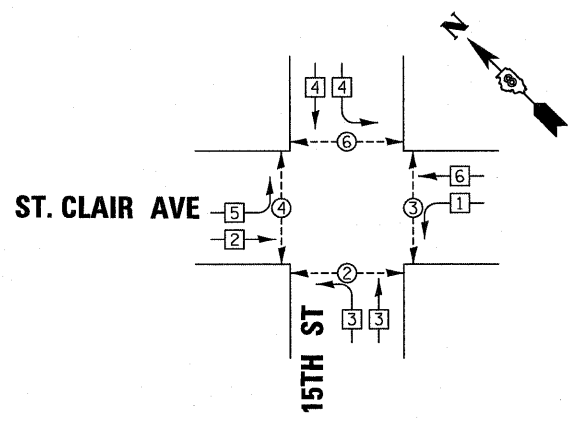


CABLE PLAN



PHASE DESIGNATION DIAGRAM

- ⊕ VEHICULAR PHASE
- ⊕ PEDESTRIAN PHASE
- # ASSOCIATED PHASE NUMBER

PHASE	1	2	3	4	5	6	7	8
MOVEMENT							-	-
CONCURRENT MOVEMENT PERMITTED	5	6	-	-	1	2	NOT USED	NOT USED

PROPOSED SEQUENCE OF OPERATION

- PROTECTED VEHICULAR MOVEMENT
- PERMISSIVE VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT

LOOP FINAL CONFIGURATION	PHASE Ø	LOOP SIZE (FT)	REQUIRED * OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
NB 15TH LT TURN LN	3	6' x 50'	3-6-3	796.56	1.830
NB 15TH THRU/RT LN	3	6' x 50'	3-6-3	793.92	1.770
SB 15TH LT TURN LN	4	6' x 50'	3-6-3	796.78	1.835
SB 15TH THRU/RT LN	4	6' x 50'	3-6-3	793.70	1.765
WB ST. CLAIR LT TURN LN	1	6' x 50'	3-6-3	796.78	1.835
WB ST. CLAIR THRU/RT LN	6	6' x 50'	3-6-3	793.92	1.770
EB ST. CLAIR LT TURN LN	5	6' x 50'	3-6-3	795.02	1.795
EB ST. CLAIR THRU/RT LN	2	6' x 50'	3-6-3	792.38	1.735

THE ABOVE VALUES ARE CALCULATED FOR COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN ±20% OF THESE VALUES.

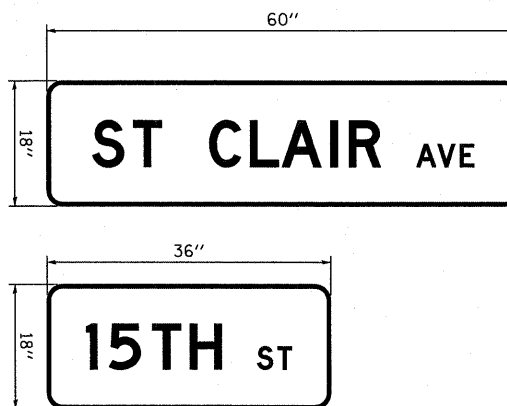
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
72000100	SIGN PANEL - TYPE 1	SQ FT	37
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	147
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	441
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	94
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	16
81400100	HANDHOLE	EACH	4
81400300	DOUBLE HANDHOLE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	455
81900302	TRENCH AND BACKFILL WITH SCREENINGS OR SAND	FOOT	243
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
87100160	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F	FOOT	293
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	625
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	629
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3795
87301405	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 16 1 PAIR	FOOT	1242
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	179
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3.5
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	58
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	20
88500100	INDUCTIVE LOOP DETECTOR	EACH	4
88600100	DETECTOR LOOP, TYPE I	FOOT	1378
88800100	PEDESTRIAN PUSH-BUTTON	EACH	4
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	461

SCHEDULE OF QUANTITIES

PROPOSED TRAFFIC SIGNAL LEGEND

- ⊕ DENOTES NUMBER OF CONDUCTORS
- ⊕ CONTROLLER
- ⊕ PEDESTRIAN PUSHBUTTON
- ⊕ PEDESTRIAN SIGNAL
- ⊕ VEHICULAR SIGNAL FACE WITH BACKPLATE
- 6'x50' VEHICULAR DETECTOR WITH INDUCTION LOOP SIZE
- S CABLE SPLICE



MAST ARM MOUNTED STREET NAME SIGNS