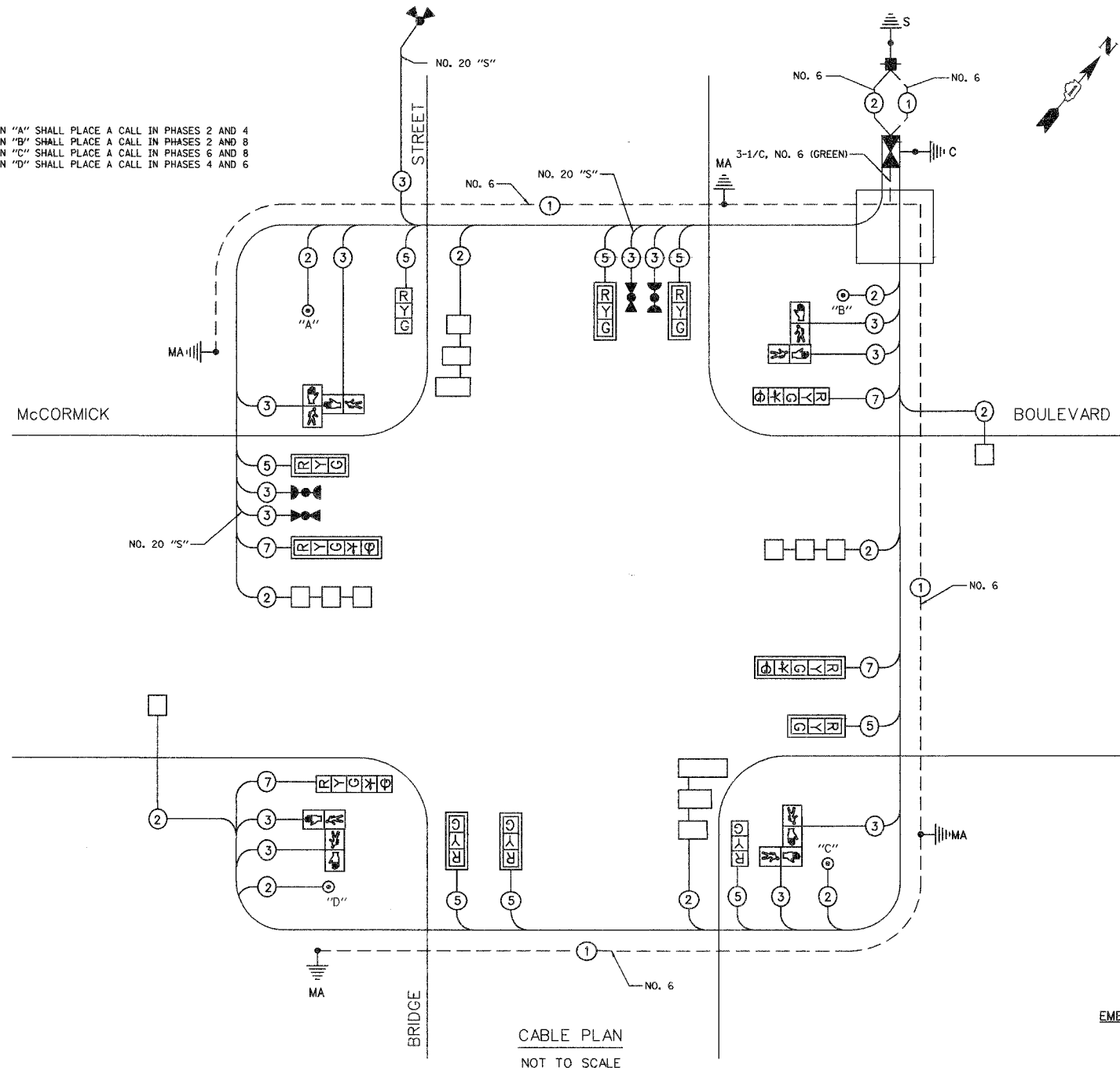


SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
31.5	SQ FT	SIGN PANEL - TYPE 1
777	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
24	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
59	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
24	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
161	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
5	EACH	HANDHOLE
2	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
965	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
460	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1,231	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1,158	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
576	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1,180	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
156	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE D
60	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
8	EACH	TRAFFIC SIGNAL BACKPLATE
6	EACH	INDUCTIVE LOOP DETECTOR
475	FOOT	DETECTOR LOOP, TYPE I
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
4	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
443	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
465	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
6	EACH	SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED

NOTES:

- PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 2 AND 8
- PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 4 AND 6

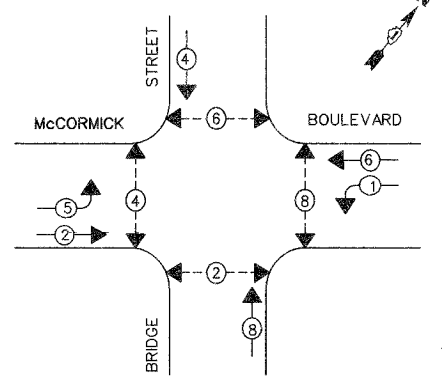


CABLE PLAN
NOT TO SCALE

CABLE PLAN LEGEND

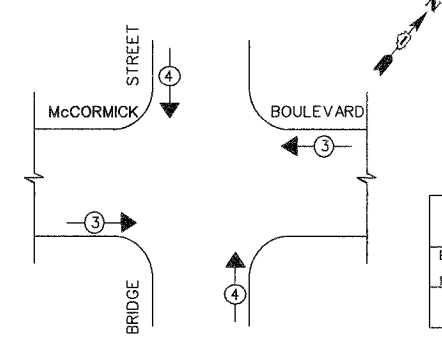
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|--|--|--|
| | | SIGNAL FACE WITH BACKPLATE |
| | | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | | GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F |
| | | ELECTRIC CABLE IN CONDUIT, NO. 18, 6 PAIR TWISTED, SHIELDED |
| | | 12" (200mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
- 2 DENOTES NUMBER OF CONDUCTORS
ALL CABLE NO. 14 EXCEPT AS INDICATED
ALL LOOP DETECTOR CABLE TO BE SHIELDED

PROPOSED CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

- LEGEND
- -
 - X NUMBER REFERS TO ASSOCIATED PHASE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN,
SEQUENCE OF OPERATIONS AND
SCHEDULE OF QUANTITIES
McCORMICK BOULEVARD
McCORMICK BOULEVARD AT BRIDGE STREET

SCALE: NONE
DATE 9/03/04
DRAWN BY CEW
CHECKED BY SRF

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

TYPE	NO. LAMPS	INCAND.	LED	OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	9.8
PED SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	0	252	0.05	0	0

FLASHER ENERGY COSTS TO: TOTAL= 531.6

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE	2	SIGNAL POST	2		
24" (600mm)	10	CONTROLLER CAB.	1	BRACKET MOUNTED	13
30" (750mm)	15	FIBER OPTIC	13	PED. PUSHBUTTON	4
		ELECTRIC SERVICE	1	ELECTRIC SERVICE	13.5
		GROUND CABLE	1	SERVICE TO GROUND	13.5
				POST MOUNTED	6

ENERGY SUPPLY CONTACT: JUDY SCHOMER
PHONES: (847) 816-5472
COMPANY: COM ED