

SCHEDULE OF QUANTITIES

ITEM NO.	S. NO	ITEM NAME	UNITS	QUANTITY
72000100	1	SIGN PANEL - TYPE 1	SQ FT	30
72000200	2	SIGN PANEL - TYPE 2	SQ FT	28
X8050015	3	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
81000600	4	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	504
81000700	5	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	60
81001000	6	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	74
81018500	7	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	55
81018900	8	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	255
81400100	9	HANDHOLE	EACH	8
81400200	10	HEAVY-DUTY HANDHOLE	EACH	1
81400300	11	DOUBLE HANDHOLE	EACH	1
81900200	12	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	638
85700205	13	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86400100	14	TRANSCEIVER - FIBER OPTIC	EACH	1
87301225	15	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	440
87301245	16	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	860
87301255	17	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1698
87301305	18	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2512
87301805	19	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	9
87702190	20	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 16 FT. AND 28 FT.	EACH	1
87702260	21	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 26 FT.	EACH	1
87702360	22	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 26 FT. AND 40 FT.	EACH	1
87702550	23	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT. AND 40 FT.	EACH	1
87800150	24	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800415	25	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
88030020	26	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
88030080	27	SIGNAL HEAD, L.E.D., 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
88030110	28	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
88200100	29	TRAFFIC SIGNAL BACKPLATE	EACH	12
88500100	30	INDUCTIVE LOOP DETECTOR	EACH	10
88600100	31	DETECTOR LOOP, TYPE 1	FOOT	68
88700200	32	LIGHT DETECTOR	EACH	3
88700300	33	LIGHT DETECTOR AMPLIFIER	EACH	1
89000100	34	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89502375	35	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	36	REMOVE EXISTING HANDHOLE	EACH	2
X0323670	37	PREFORMED DETECTOR LOOP	FOOT	706
X8620020	38	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
X8730027	39	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1033
X8730275	40	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C	FOOT	440

ELECTRICAL LOAD CHART

IDOT TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE LED	% OPERATION	
SIGNAL (RED)	12	17	0.50	102
SIGNAL (YELLOW)	12	25	0.25	75
SIGNAL (GREEN)	12	15	0.25	45
ARROW	8	12	0.10	9.6
CONTROLLER	1	100	1.00	100.0
TOTAL				331.6

ENERGY COSTS TO ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT : TERRY COLLARD
PHONE : (847) 816-5472
COMPANY : COM. EDISON

FOUNDATION (DEPTH)	FT	CABLE SLACK	FT	VERTICAL	FT
TYPE C - MAST ARM	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
TYPE D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM POLE (L)	20'+L-2
E - MAST ARM POLE		SIGNAL POST	2	BRACKET MOUNTED	13
36"	15	CONTROLLER CABINET	1	ELECTRIC SERVICE	13.5
		FIBER OPTIC	13	SERVICE GROUND	13.5
		ELECTRIC SERVICE	1	POST MOUNTED	6
		GROUND CABLE	1		

CABLE PLAN LEGEND

8" (200mm) TRAFFIC SIGNAL SECTION
12" (300mm) TRAFFIC SIGNAL SECTION
12" (300mm) PEDESTRIAN SIGNAL SECTION
12" (300mm) PEDESTRIAN SIGNAL SECTION

CONTROLLER CABINET
SERVICE INSTALLATION
TELEPHONE CONNECTION
MAGNETIC DETECTOR
EMERGENCY VEHICLE LIGHT DETECTOR
CONFIRMATION BEACON
PUSHBUTTON DETECTOR
PREFORMED DETECTOR LOOP

VEHICLE DETECTOR, INDUCTION LOOP
DENOTES NUMBER OF CONDUCTORS.
ALL CABLE NO. 14 EXCEPT AS INDICATED.
ALL LOOP DETECTOR CABLE TO BE SHIELDED.
SIGNAL FACE WITH BACKPLATE.
"P" INDICATES PROGRAMMED HEAD.

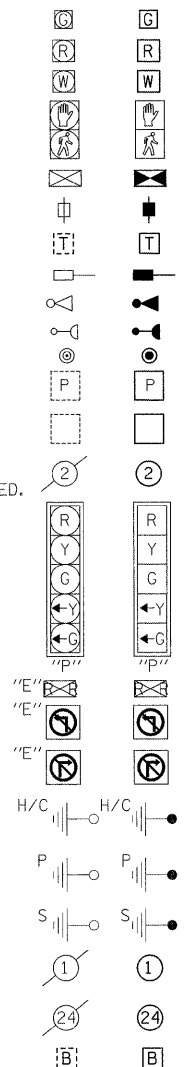
RAILROAD CONTROL CABINET
ILLUMINATED SIGN, FIBER OPTIC
"NO LEFT TURN"
ILLUMINATED SIGN, FIBER OPTIC
"NO RIGHT TURN"

GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
GROUND ROD AT POST, OR MAST ARM POLE
GROUND ROD AT ELECTRIC, SERVICE INSTALLATION

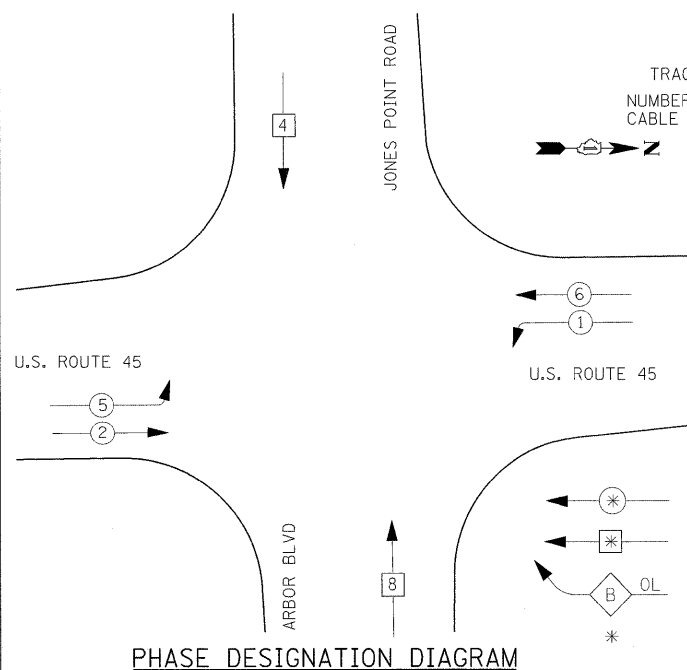
GROUND CABLE IN CONDUIT, NO.6 SOLID COPPER (GREEN)

FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F
UNINTERRUPTIBLE POWER SUPPLY

EXISTING PROPOSED



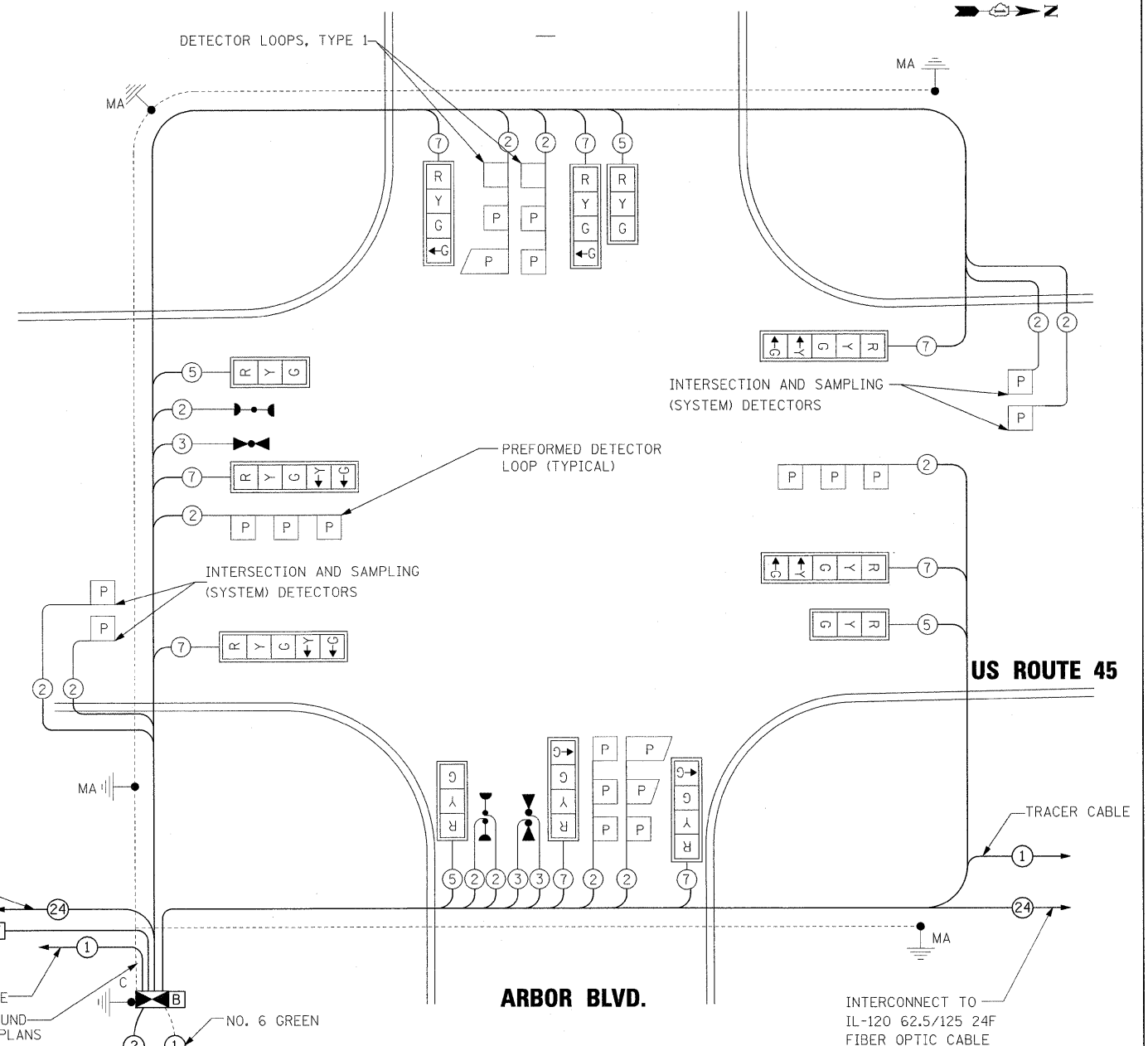
CONTROLLER SEQUENCE



LEGEND

DUAL ENTRY PHASE
SINGLE ENTRY PHASE
OVER LAP
NUMBER REFERS TO ASSOCIATED PHASE

JONES POINT ROAD



NOTE: THE ENDS OF THE TRACER CABLES SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER.

NOTE THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EMERGENCY VEHICLE PRE-EMPTION SEQUENCE			
SEQUENCE	3	4	5
PHASE	← →	← ↑	↓ →