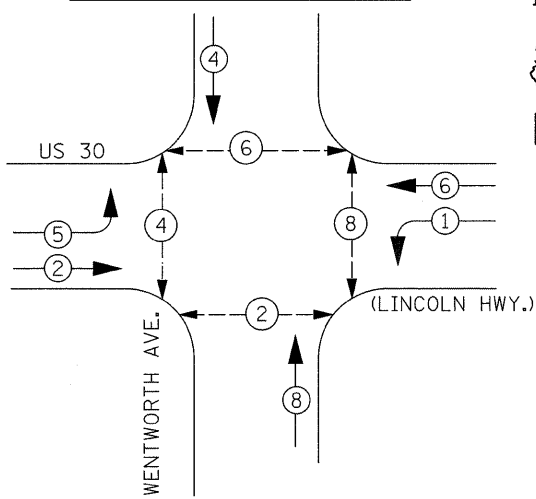
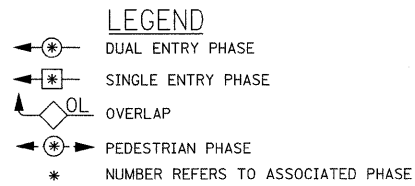


**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**



**NOTE:**  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	720
SIDEWALK REMOVAL	SQ FT	720
DETECTABLE WARNINGS	SQ FT	192
SIGN PANEL-TYPE I	SQ FT	19.5
SIGN PANEL-TYPE II	SQ FT	30
THERMOPLASTIC PAVEMENT MARKING-LINE 6"	FOOT	392
THERMOPLASTIC PAVEMENT MARKING-LINE 24"	FOOT	108
THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	142
CONDUIT IN PUSH, 2" DIA., GALVANIZED STEEL	FOOT	603
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	34
CONDUIT IN PUSH, 4" DIA., GALVANIZED STEEL	FOOT	152
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET(SPECIAL)	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	610
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	869
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1379
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	527
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1129
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	108
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	615
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIA.	FOOT	60
SIGNAL HEAD, L.E.D. 1-FACE, 3 SECTION, MAST ARM MNTD.	EACH	8
SIGNAL HEAD, L.E.D. 1-FACE, 5-SECTION, MAST ARM MNTD.	EACH	2
SIGNAL HEAD, L.E.D. 1-FACE, 5 SECTION BRKT. MNTD.	EACH	2
SIGNAL HEAD, L.E.D. 1-FACE, 3-SECTION BRKT. MNTD.	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRKT. MNTD. with COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	38
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP TYPE I	FOOT	530
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	50
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
REMOVE EXISTING HANDHOLE	EACH	6
REMOVE EXISTING WOOD UTILITY POLE	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1

**PUSH BUTTON NOTES:**

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

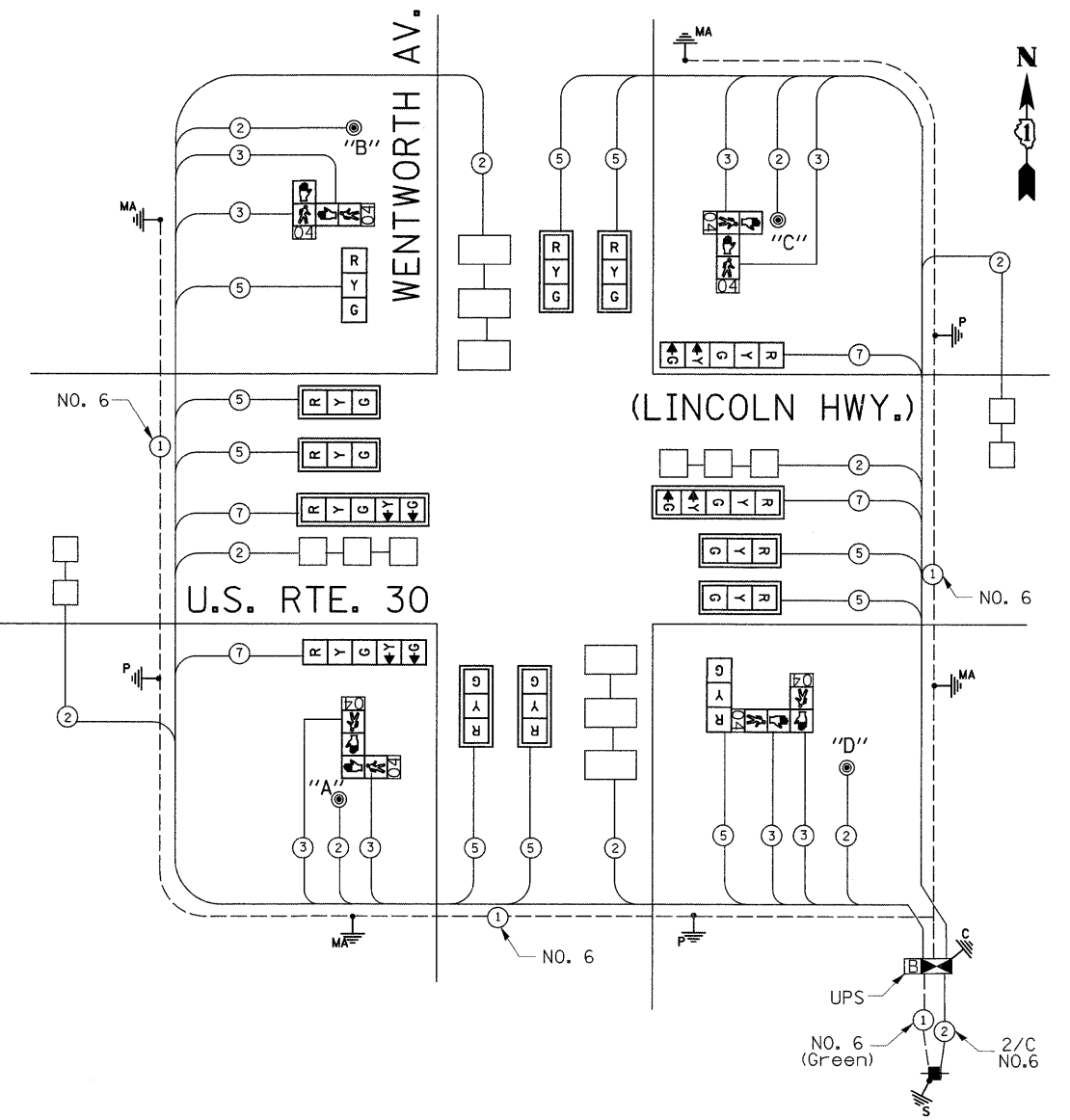
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H-2=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	6m+L-0.6m=	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	18	135	17	0.50	153.00
(YELLOW)	18	135	25	0.25	112.50
(GREEN)	18	135	15	0.25	67.50
ARROW	8	135	12	0.10	9.60
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:				<b>TOTAL =</b>	<b>642.60</b>

ENERGY SUPPLY CONTACT: 708-410-5069  
PHONE: COM. EDISON  
COMPANY:

FILE NAME = USER NAME = nguyensm  
DESIGNED - REVISIONS -  
DRAWN - REVISIONS -  
CHECKED - REVISIONS -  
DATE - REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**CABLE PLAN LEGEND**

PROPOSED	EXISTING	DESCRIPTION	PROPOSED	EXISTING
[Symbol]	[Symbol]	CONTROLLER CABINET	[Symbol]	[Symbol]
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
[Symbol]	[Symbol]	SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	[Symbol]	[Symbol]
[Symbol]	[Symbol]	TELEPHONE CONNECTION	[Symbol]	[Symbol]
[Symbol]	[Symbol]	GROUND ROD AT (C) CONTROLLER, (H)HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE	[Symbol]	[Symbol]
[Symbol]	[Symbol]	FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED	[Symbol]	[Symbol]
[Symbol]	[Symbol]	ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED. NUMBER OF CONDUCTORS AS NOTED	[Symbol]	[Symbol]
[Symbol]	[Symbol]	GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN)	[Symbol]	[Symbol]
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD	[Symbol]	[Symbol]
[Symbol]	[Symbol]	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE	[Symbol]	[Symbol]
[Symbol]	[Symbol]	12" (300mm) TRAFFIC SIGNAL SECTION	[Symbol]	[Symbol]
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION with COUNTDOWN TIMER	[Symbol]	[Symbol]
[Symbol]	[Symbol]	ILLUMINATED SIGN "NO LEFT TURN"	[Symbol]	[Symbol]
[Symbol]	[Symbol]	ILLUMINATED SIGN "NO RIGHT TURN"	[Symbol]	[Symbol]
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
[Symbol]	[Symbol]	DETECTOR LOOP	[Symbol]	[Symbol]
[Symbol]	[Symbol]	PREFORMED DETECTOR LOOP	[Symbol]	[Symbol]
[Symbol]	[Symbol]	MICROWAVE VEHICLE SENSOR	[Symbol]	[Symbol]
[Symbol]	[Symbol]	VIDEO DETECTOR	[Symbol]	[Symbol]
[Symbol]	[Symbol]	CLOSED CIRCUIT TV	[Symbol]	[Symbol]
[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
[Symbol]	[Symbol]	CONFIRMATION BEACON	[Symbol]	[Symbol]
[Symbol]	[Symbol]	UNINTERRUPTIBLE POWER SUPPLY	[Symbol]	[Symbol]