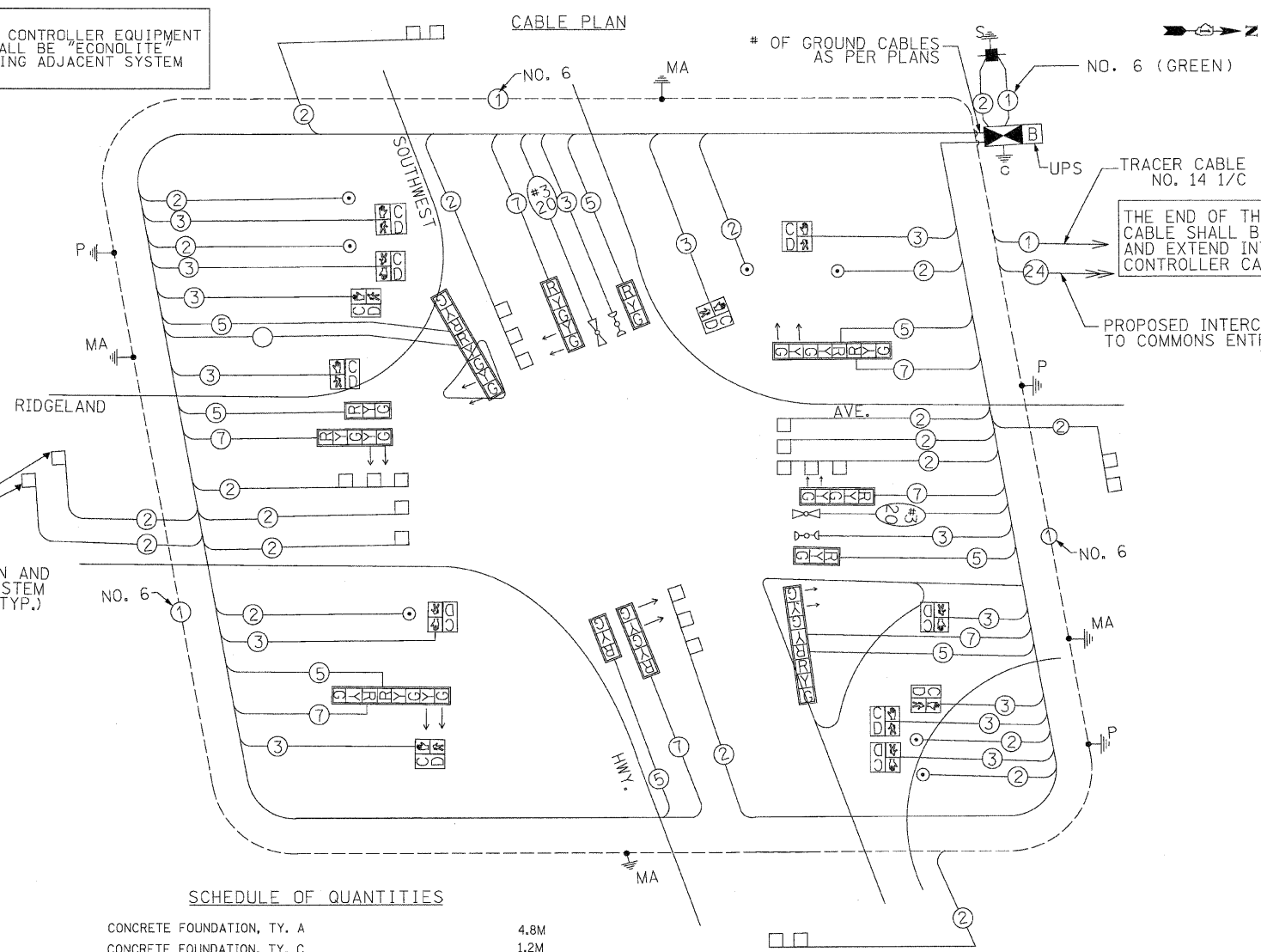


CONTRACT #62388

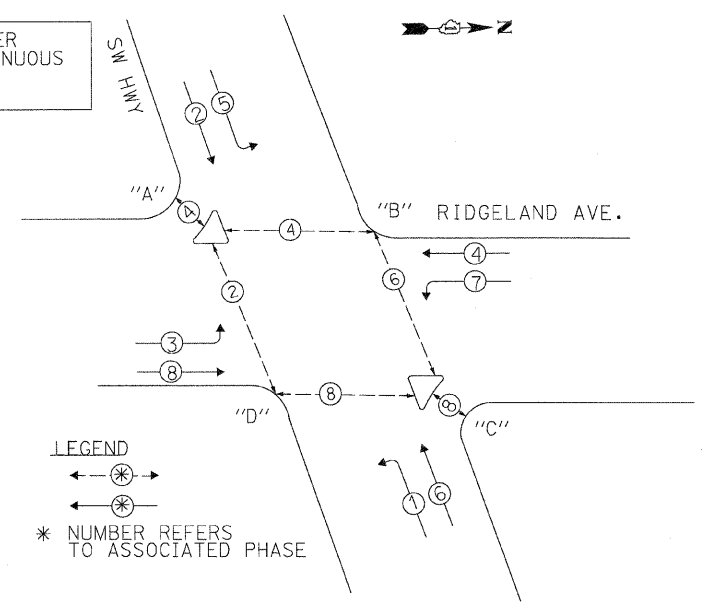
CABLE PLAN LEGEND

- EXISTING**
- 8" (200mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) TRAFFIC SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION C/D INDICATES COUNTDOWN SIGNAL HEAD
 - CONTROLLER CABINET
 - SERVICE INSTALLATION
 - TELEPHONE CONNECTION
 - MAGNETIC DETECTOR
 - EMERGENCY VEHICLE LIGHT DETECTOR
 - CONFIRMATION BEACON
 - PUSHBUTTON DETECTOR
 - 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
- PROPOSED**
- RAILROAD CONTROL CABINET
 - SIGNAL FACE WITH ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
 - SIGNAL FACE WITH 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
 - MICROWAVE VEHICLE SENSOR

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THE PROJECT SHALL BE "ECONDLITE" TO MATCH THE EXISTING ADJACENT SYSTEM INSTALLATION



CONTROLLER SEQUENCE



SUMMARY OF QUANTITIES

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

SCHEDULE OF QUANTITIES

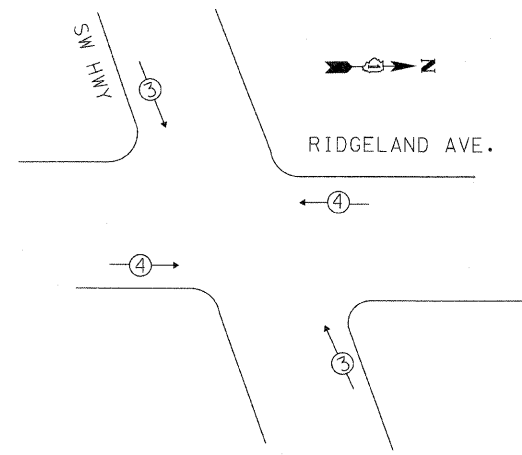
DESCRIPTION	QUANTITY	UNIT
PED. PUSH BUTTON	7	EACH
DOUBLE HANDHOLE	2	EACH
PED. SIGNAL HEAD, L.E.D., 1 FACE BRACKET MOUNT W/ COUNTDOWN TIMER	2	EACH
PED. SIGNAL HEAD, L.E.D. 2 FACE BRACKET MOUNT W/ COUNTDOWN TIMER	2	EACH
PED. SIGNAL HEAD, L.E.D. 3 FACE BRACKET MOUNT W/ COUNTDOWN TIMER	2	EACH
PED. PUSH BUTTON POST, GALVANIZED STEEL, TYPE II	2	EACH
HEAVY DUTY HANDHOLE	4	EACH
HANDHOLE	9	EACH
FULL-ACTUATED, CONTROLLER & TY. IV CABINET, SPECIAL	1	EACH
MODIFY EXISTING CONTROLLER	1	EACH

CONCRETE FOUNDATION, TY. A	4.8M
CONCRETE FOUNDATION, TY. C	1.2M
CONCRETE FOUNDATION, TY. E 750 mm DIA.	4.8M
SERVICE INSTALLATION, POLE MOUNT	1 EACH
CONDUIT PUSH 50mm DIA. GALV. STEEL	101.2M
CONDUIT PUSH 75mm DIA. GALV. STEEL	6.1M
CONDUIT IN TRENCH, 50mm DIA., GALV. STEEL	146.1M
CONDUIT IN PUSH, 40mm DIA.	14.2M
CONDUIT IN TRENCH, 40 mm DIA., GALV. STEEL	5.3M
CONDUIT PUSHED, 65 mm DIA., GALV. STEEL	2.3M
CONDUIT IN TRENCH, 65mm DIA., GALV. STEEL	5.3M
CONDUIT IN TRENCH, 100 mm DIA., GALV. STEEL	12M
CONDUIT PUSHED, 100 mm DIA., GALV. STEEL	123.5M
ELEC. CABLE IN CONDUIT LEAD-IN NO. 14 1-PAIR	771.10M
ELEC. CABLE IN CONDUIT SIGNAL NO. 14 2C	385M
ELEC. CABLE IN CONDUIT SIGNAL NO. 14 3C	680.5M
ELEC. CABLE IN CONDUIT SIGNAL NO. 14 5C	648.48M
ELEC. CABLE IN CONDUIT SIGNAL NO. 14 7C	659.38M
ELEC. CABLE IN CONDUIT SERVICE, NO. 6 2C	6.3M
ELEC. CABLE IN CONDUIT GROUNDING, NO. 6 1C	6.3M
ELEC. CABLE IN CONDUIT NO. 20 3/C TWISTED, SHIELDED	85.7M
SIGN PANEL-TYPE 2	14.48 SQ. METER
TEMPORARY TRAFFIC SIGNAL INSTALLATION	1 EACH
TRANSCEIVER-FIBER OPTIC	1 EACH
UNINTERRUPTABLE POWER SUPPLY (UPS)	1 EACH

SCHEDULE OF QUANTITIES

PREFORMED DETECTOR LOOP	43.90M
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM-LEVEL II	1 EACH
SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	4 EACH
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	4 EACH
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION MAST ARM MOUNTED	4 EACH
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	1 EACH
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	8 EACH
TRAFFIC SIGNAL POST, GALV. STEEL 3 m	2 EACH
TRAFFIC SIGNAL POST, GALV. STEEL 4.85 m	2 EACH
STEEL COMBINATION MAST ARM ASSEMBLY & POLE 9.14m	1 EACH
INDUCTIVE LOOP DETECTOR	13 EACH
RELOCATE EXISTING, EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	1 EACH
RELOCATE EXISTING, EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	1 EACH
REMOVE EXISTING HANDHOLE	12 EACH
REMOVE ELECTRICAL CABLE FROM CONDUIT	133.5M
STEEL COMBINATION MAST ARM ASSEMBLY & POLE 9.75 m	1 EACH
STEEL COMBINATION MAST ARM ASSEMBLY & POLE 10.36 m	1 EACH
STEEL COMBINATION MAST ARM ASSEMBLY & POLE 15.85 m	1 EACH
REMOVE EXISTING CONCRETE FOUNDATION	4 EACH
REMOVE EXISTING SERVICE INSTALLATION	1 EACH

EMERGENCY VEHICLE PEEPTION



PROPOSED EMERGENCY VEHICLE PEEPTION TYPE		
EMERGENCY VEHICLE PEEPTION	3	4
MOVEMENT		

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	15	17	17	0.50	127.50
(YELLOW)	15	25	25	0.25	93.75
(GREEN)	15	15	15	0.25	93.75
ARROW	16	12	12	0.10	19.20
PED. SIGNAL	12	25	25	1.00	300
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN FLASHER				0.50	
TOTAL =					734.20

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	3	(0.9)	MAST ARM (L) POLE	20'	HL-2=
C - M. ARM POLE			SIGNAL POST	2	(0.6)		(6m+L-0.6m)=	
24" (600mm)	10	(3.0)	CONTROLLER CAB.	1	(0.3)	BRACKET MOUNTED	13	(4.0)
30" (750mm)	15	(4.6)	FIBER OPTIC	13	(4.0)	PED. PUSHBUTTON	4	(1.2)
			ELECTRIC SERVICE	1	(0.3)	ELECTRIC SERVICE	13.5	(4.1)
			GROUND CABLE	1	(0.3)	SERVICE TO GROUND	13.5	(4.1)
						POST MOUNTED	6	(1.8)

ENERGY COSTS TO:
ILLINOIS DEPT. OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: DOUG BROWNFIELD
PHONE: (708) 235-2339
COMPANY: ComED

100% COST TO THE VILLAGE OF CHICAGO RIDGE

INFRASTRUCTURE ENGINEERING | INCORPORATED
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF CHICAGO RIDGE
SCHEDULE OF QUANTITIES, CABLE PLAN
PHASE DESIGNATION PLAN AND
EMERGENCY VEHICLE PEEPTION SEQUENCE
SOUTHWEST HWY/RIDGELAND AVE.

SCALE: N.T.S.
DATE: 06/17/2009

DRAWN BY: BL
DESIGNED BY: ERR
CHECKED BY: RB