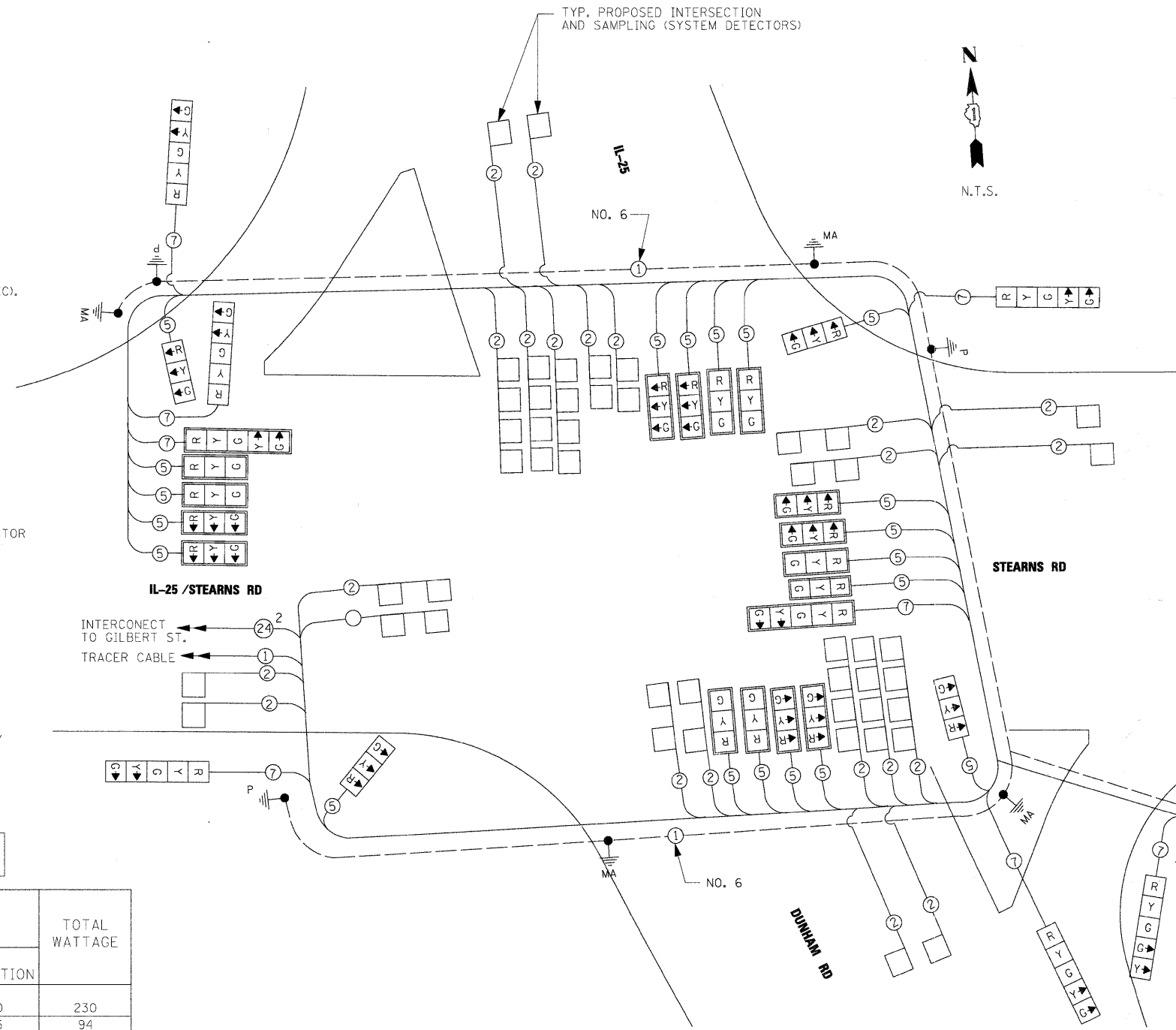


CABLE SIGNAL LEGEND

EXISTING	PROPOSED	DESCRIPTION
⊙	⊙	8" (200mm) TRAFFIC SIGNAL SECTION
⊙	⊙	12" (300mm) TRAFFIC SIGNAL SECTION
⊠	⊠	CONTROLLER CABINET
⊠	⊠	SERVICE INSTALLATION
⊠	⊠	TELEPHONE INSTALLATION
②	②	2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
⊕	⊕	GROUND ROD AT CONTROLLER (C).
⊕	⊕	GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
⊕	⊕	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
①	①	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
②④	②④	FIBER OPTIC CABLE IN CONDUIT NO.62.5/125, MM 12F, SM12F
⊠	⊠	DETECTOR LOOP
⊠	⊠	EMERGENCY VEHICLE LIGHT DETECTOR
⊠	⊠	CONFIRMATION BEACAN
⊠	⊠	SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
⊠	⊠	UNINTERRUPTABLE POWER SUPPLY

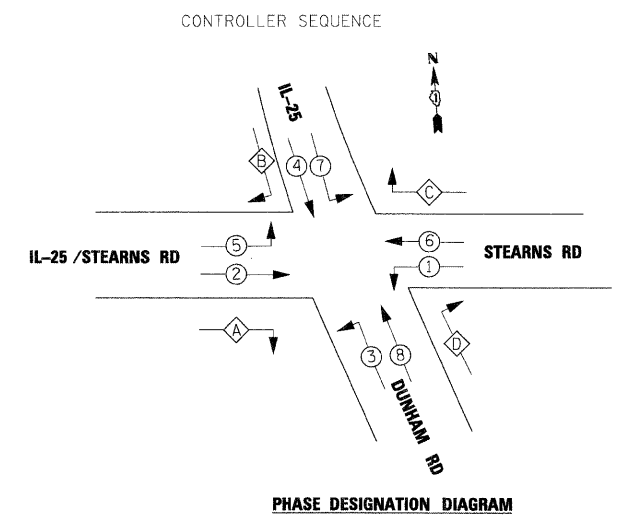
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITIES
ELECTRIC SERVICE INSTALLATION	EACH	1
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	1118
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	65
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	76
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	115
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	224
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	671
HANDHOLE	EACH	8
HEAVY DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1489
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5/C	FOOT	6681
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7/C	FOOT	2281
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5841
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	120
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 75 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	16
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM	EACH	18
INDUCTIVE LOOP DETECTOR	EACH	16
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
PREFORMED DETECTOR LOOP	FOOT	1802
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	FOOT	715
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE E, 42-INCH DIAMETER	FOOT	100



CABLE PLAN

ALL DETECTOR LOOPS AT THIS INTERSECTION (INCLUDING SYSTEM DETECTORS) SHALL BE PREFORMED DETECTOR LOOPS (PLACED WITHIN THE PCC PAVEMENT) PER IDOT DISTRICT 1 SPECIAL PROVISIONS.



PHASE DESIGNATION DIAGRAM

LEGEND
 ⊙ ⊕ DUAL ENTRY PHASE
 ⊕ OL OVERLAP
 * - NUMBER REFERS TO ASSOCIATED PHASE

THE END OF THE TRACER CABLE WILL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE LED	%OPERATION	
SIGNAL (RED/ RED ARROW)	27	17	0.50	230
(YELLOW)	15	25	0.25	94
(GREEN)	15	15	0.25	57
ARROW	38	12	0.10	46
CONTROLLER	1	100	1.00	100
FLASHER			0.50	
ENERGY COSTS TO:				TOTAL = 527

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'+L-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)'
30" (750mm)	10 (5.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSH BUTTON	4 (1.2)
42" (1060 mm)	25 (7.6)	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)

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W. CENTER COURT
 SCHAMBURG, ILLINOIS 60196
 ENERGY SUPPLY CONTACT: MARTY RUBIN
 PHONE: 847-608-2400
 COMPANY: COMED

KANE COUNTY DIVISION OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN IL. RTE. 25 / STEARNS RD AT IL. RTE. 25 / DUNHAM RD

FILE NAME =	USER NAME = #USER#	DESIGNED - GHT/MPM	REVISED -
#FILES#		DRAWN - VLM	REVISED -
		CHECKED - GHT	REVISED -
		DATE - 3/31/09	REVISED -

PLOT SCALE = 40,000' / IN.	
PLOT DATE = 3/30/2009	

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	06-00214-15-BR	KANE/DUPAGE	545	264
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 63074	

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	7
D	8	1