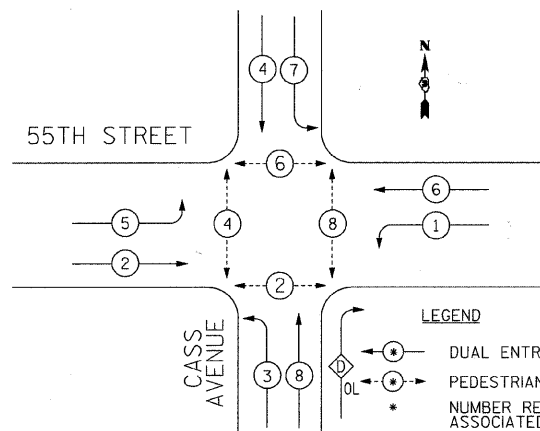
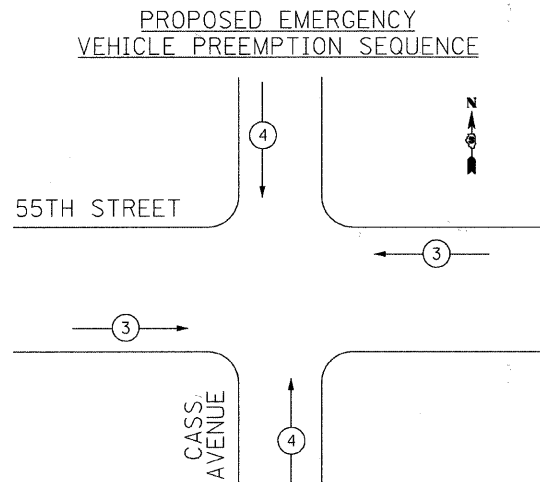


CONTROLLER SEQUENCE

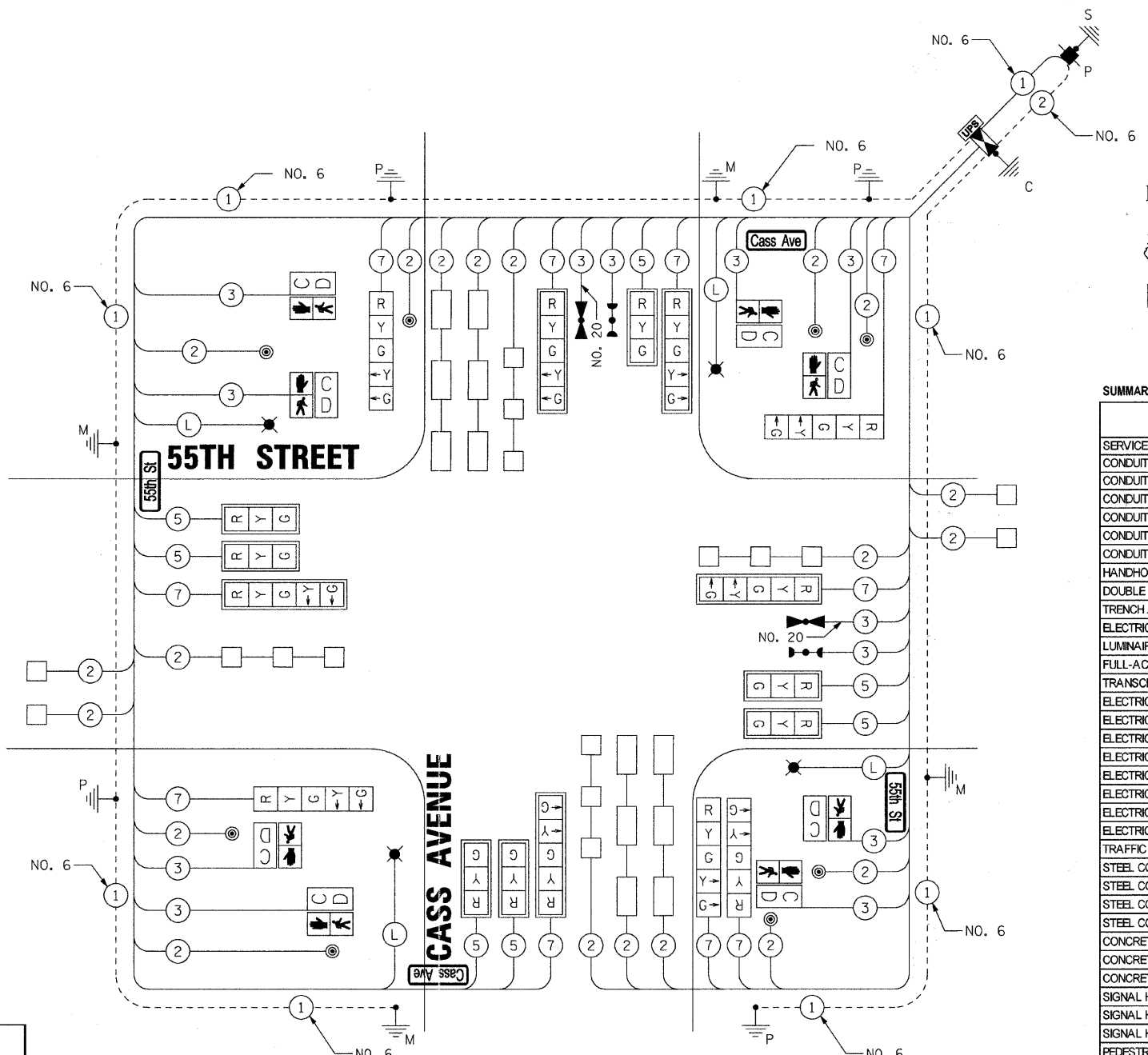


PROPOSED PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↔	↕

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



CABLE PLAN

(L) 2-1/2" #8 LIGHTING CABLE

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING EQUIPMENT.

NOTE:
SURGE ARRESTORS, FUSES, AND BREAKAWAY FUSEHOLDERS ARE REQUIRED IN EACH COMBINATION MAST ARM ASSEMBLY, AS SHOWN ON HIGHWAY STANDARD 877011-04, AND DESCRIBED IN SECTION 1065 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007. THIS WORK SHALL BE INCLUDED IN THE APPROPRIATE COMBINATION MAST ARM ASSEMBLY PAY ITEM.

SUMMARY OF TRAFFIC SIGNAL QUANTITIES - CASS AVENUE

ITEM	UNIT	QUANTITY
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	559
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	33
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	48
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	24
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	113
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	295
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	838
ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 1/C NO. 8	FOOT	1526
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C	FOOT	590
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2/C	FOOT	1152
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	FOOT	1471
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5/C	FOOT	1392
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7/C	FOOT	1600
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2885
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2/C	FOOT	186
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	285
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	12
DETECTOR LOOP, TYPE I	FOOT	1047
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1

I. D. O. T.				
TRAFFIC SIGNAL INSTALLATION				
ELECTRICAL SERVICE REQUIREMENTS				
C.H.35 (55TH STREET) & CASS AVENUE				
TYPE	NO. OF LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
(RED)	17	17	0.50	144.50
(YELLOW)	17	25	0.25	106.25
(GREEN)	17	15	0.25	63.75
ARROW	20	12	0.10	24.00
PEDESTRIAN SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
LUMINAIRE, HPS, 310W	4	400	0.52	832.00
FLASHER	0	25	0.50	0.00
TOTAL =				1470.50

ENERGY COSTS TO: DUPAGE COUNTY

ENERGY SUPPLY: CONTACT: JUANITA VEIGELT
PHONE: (815) 739-1577
COMPANY: COMM EDISON

EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607

FILE NAME =	USER NAME = rswanson	DESIGNED - JM	REVISED -
...ttraffic signals\29021S12.dgn		DRAWN - MS	REVISED -
	PLOT SCALE = NONE	CHECKED - CK	REVISED -
	PLOT DATE = 5/13/2011	DATE - 05/11/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			
C.H. 35 (55TH STREET) & CASS AVENUE			
SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	F.A.U. RTE. 1504	SECTION 94-00302-00-FP

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
1504	94-00302-00-FP	DUPAGE	240	133
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63609	