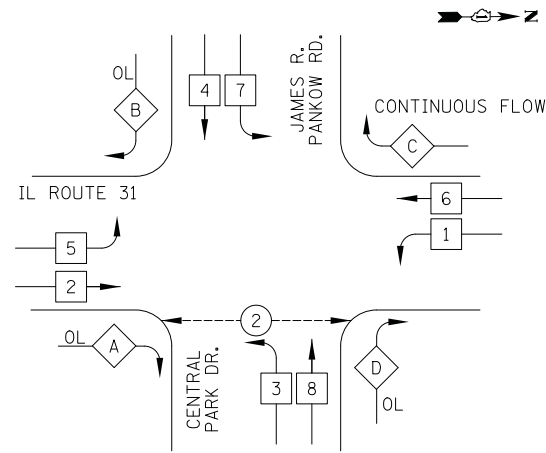
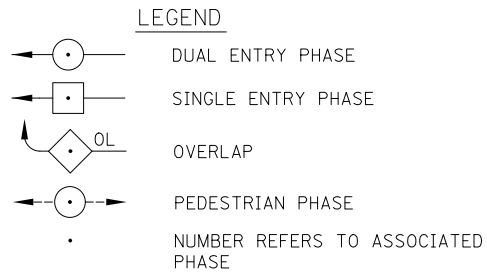
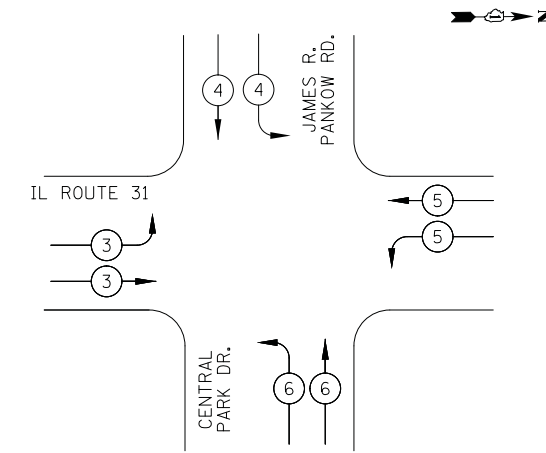


PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

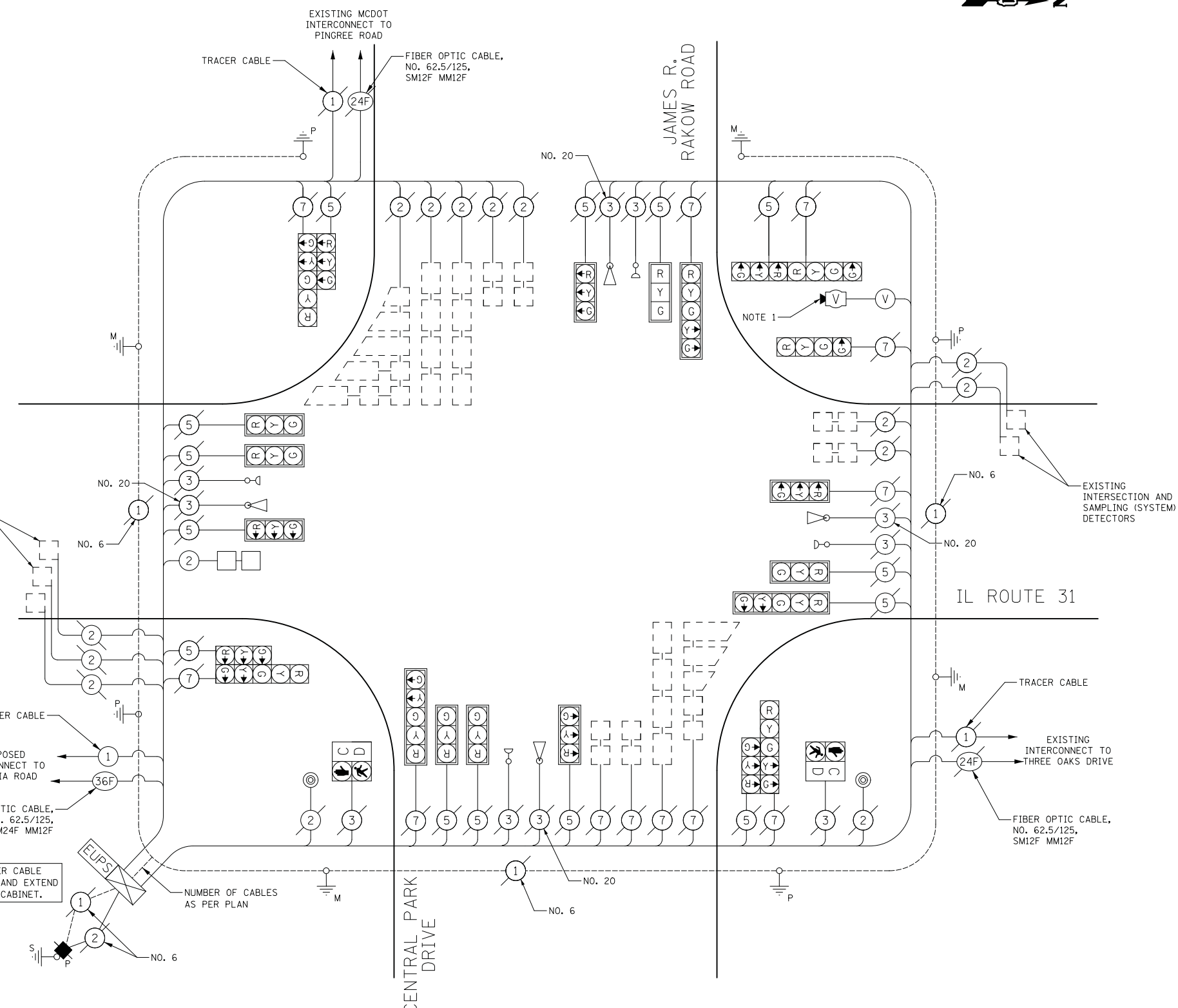


PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	[Symbol]	[Symbol]	[Symbol]	[Symbol]

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2 + 3	
B	= 4 + 5	
C	= CONTINUOUS FLOW	
D	= 8 + 1	



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	110
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	139
DRILL EXISTING HANDHOLE	EACH	1
DETECTOR LOOP, TYPE I	FOOT	52
REMOVE EXISTING HANDHOLE	EACH	1
TEMPORARY VIDEO DETECTION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	21		17	0.50	187
(YELLOW)	21		25	0.25	138
(GREEN)	23		15	0.25	83
ARROW	12		12	0.10	17
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM			150	1.00	
TOTAL =					575

ENERGY COSTS TO: CITY OF CRYSTAL LAKE
 100 WEST MUNICIPAL COMPLEX
 CRYSTAL LAKE, IL 60014

ENERGY SUPPLY: CONTACT: MS. AUDRY HELGESEN
 PHONE: 847-816-5225
 COMPANY: COMED - LIBERTYVILLE

FILE NAME = ... \2278NG-ts03.dgn	USER NAME = kwh	DESIGNED - BRD	REVISED -
Default	PLOT SCALE = 20.0000' / in.	DRAWN - MFB	REVISED -
	PLOT DATE = 8/5/2013	CHECKED - JJE	REVISED -
		DATE - 06/24/2013	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES
 IL ROUTE 31 AT RAKOW ROAD

NO SCALE SHEET 1 OF 1 SHEETS STA. 317+00 TO STA. 325+00

F.A.U. RTE. 3887	SECTION 18W&RS-5 (12)	COUNTY MCHENRY	TOTAL SHEETS 151	SHEET NO. 85
CONTRACT NO. 60V72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL NOTES

1. THE TEMPORARY VIDEO DETECTOR SHALL BE INSTALLED PRIOR TO THE PARTIAL RECONSTRUCTION OF THE NORTHBOUND APPROACH, AND SHALL BE OPERATIONAL PRIOR TO THE REMOVAL OF THE EXISTING NORTHBOUND LOOP DETECTORS. UPON ACTIVATION AND APPROVAL OF THE NEW NORTHBOUND LOOP DETECTORS, THE TEMPORARY VIDEO DETECTOR AND ASSOCIATED EQUIPMENT AND CABLING SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY VIDEO DETECTION".