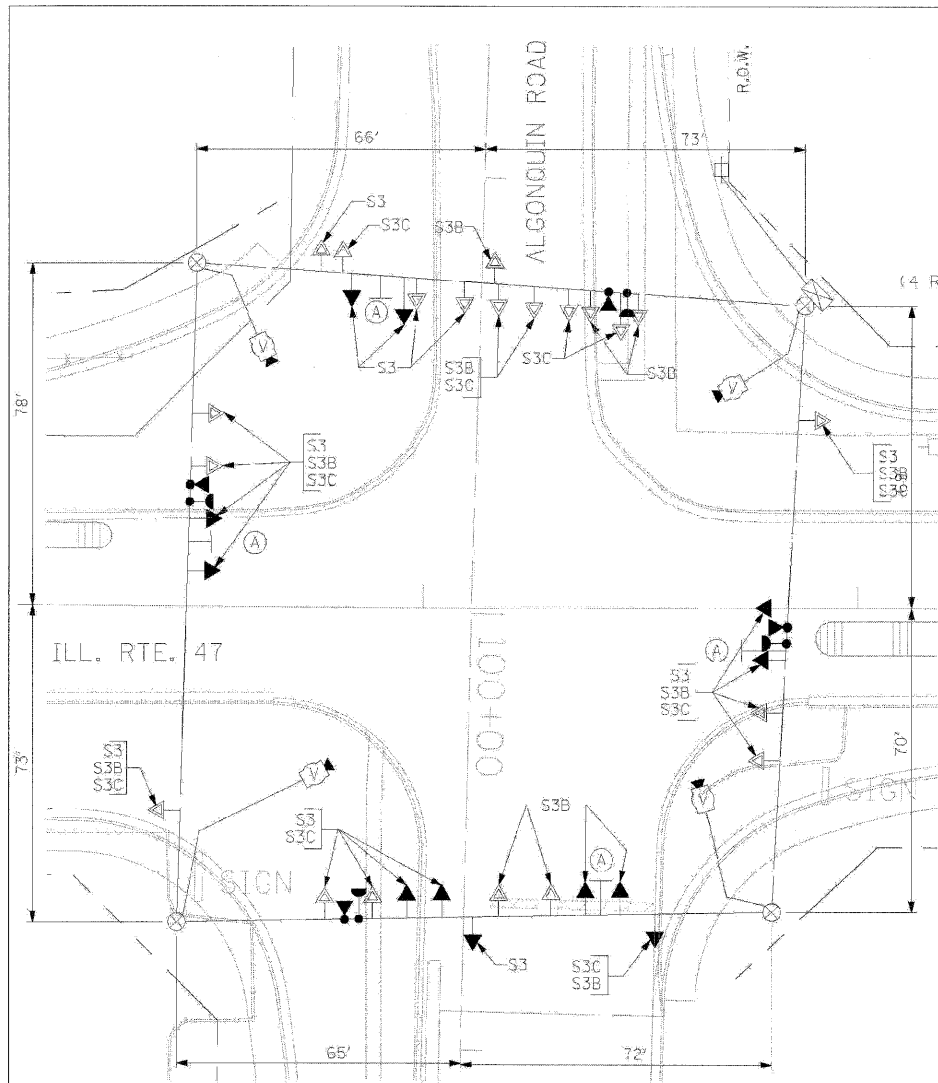


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	MCHENRY	502	298
STA. 9+35.22		TO STA. 142+08.53		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

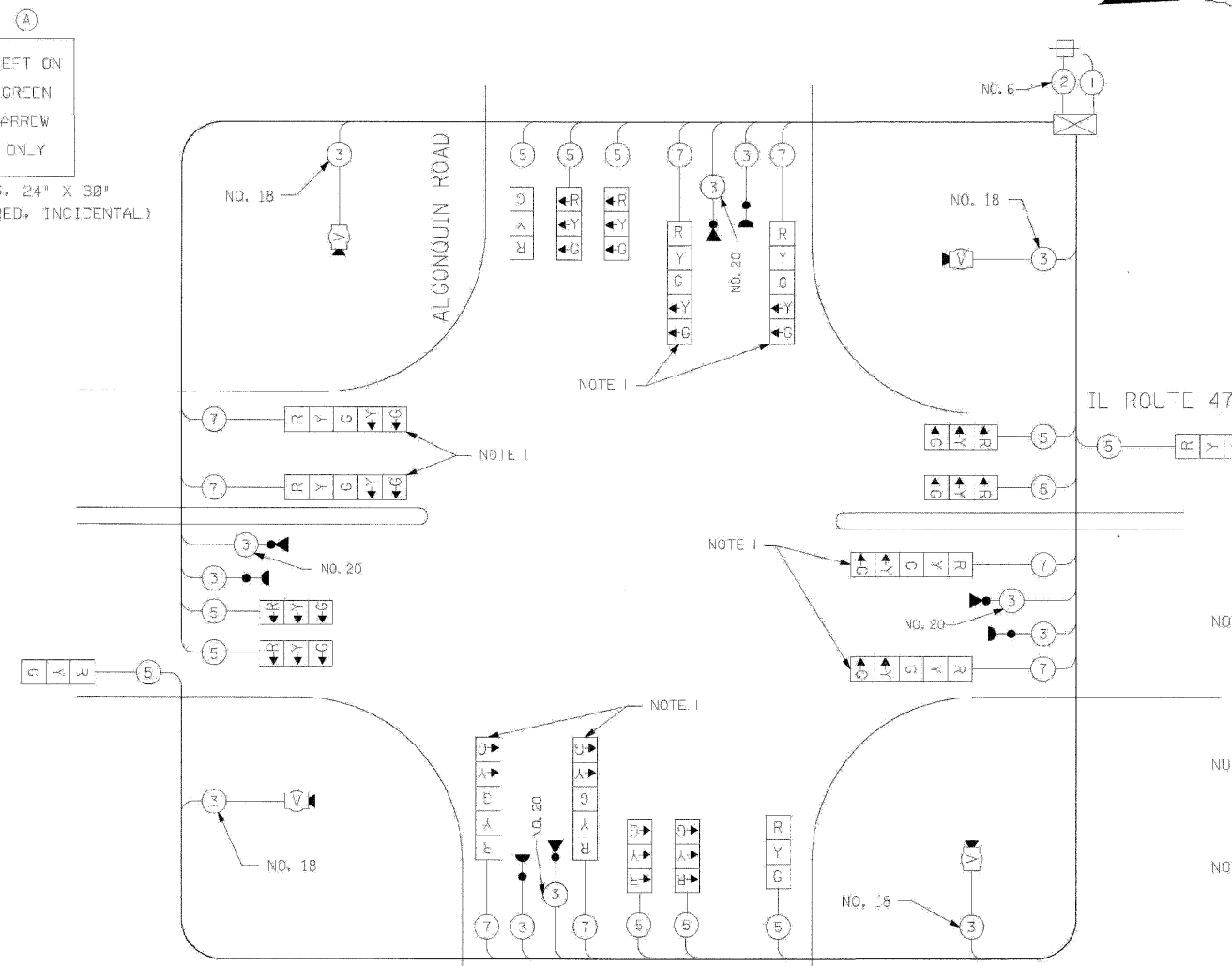
TEMPORARY CABLE DIAGRAM LEGEND

- TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- MICROWAVE VEHICLE SENSOR
- VIDEO CAMERA ASSEMBLY
- CO-AXIAL VIDEO CABLE

- NOTE 1: DURING CONSTRUCTION STAGE 3, STAGE 3B, STAGE 3C, AND AFTER PROPOSED ROADWAY GEOMETRICS ARE IN PLACE THE GREEN AND YELLOW LEFT ARROW INDICATION SECTIONS FOR ALL DIRECTIONS OF TRAFFIC SHALL BE BAGGED AND DISCONNECTED AT THE CONTROLLER.
- NOTE 2: ALL THE VIDEO DETECTION ZONES SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE. THIS WORK IS INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- NOTE 3: ALL THE TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE LED TYPE.

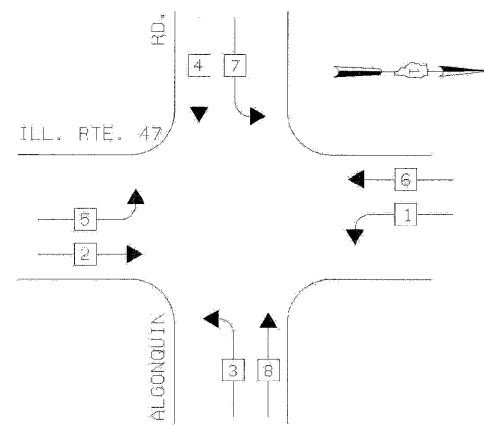


TEMPORARY TRAFFIC SIGNAL PLAN  
STAGES: STAGE 3, STAGE 3B, AND STAGE 3C



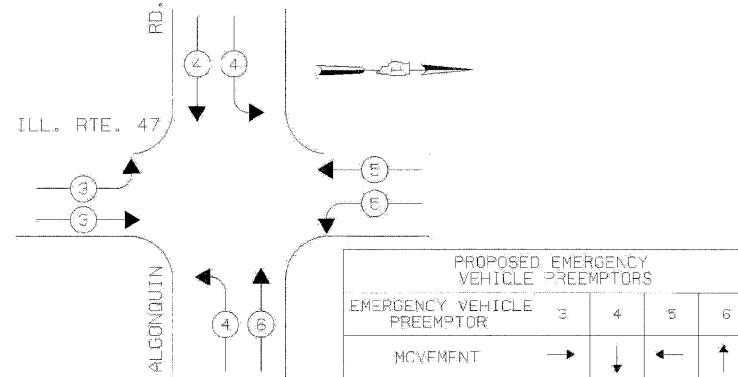
TEMPORARY CABLE PLAN  
STAGES: STAGE 3, STAGE 3B, STAGE 3C, AND AFTER PROPOSED ROADWAY GEOMETRICS ARE IN PLACE.

CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM  
STAGES: AFTER PROPOSED ROADWAY GEOMETRICS ARE IN PLACE.

EMERGENCY VEHICLE PREEMPTION SEQUENCE



STAGES: AFTER PROPOSED ROADWAY GEOMETRICS ARE IN PLACE.

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.V.L. OVERLAP
- PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE	% OPERATION		
SIGNAL (RED)	20	135	17	0.50	170.0
(YELLOW)	20	135	25	0.25	25.0
(GREEN)	20	135	15	0.25	75.0
ARROW	135	135	12	0.10	
FED. SIGNAL	90	275	1.00		
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN			0.05		
FLASHER			0.50		
ENERGY COSTS TO:				TOTAL =	470.0

ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: KATIE OLIVA  
PHONE: (847) 608-2338  
COMPANY: COMMONWEALTH EDISON

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)
C-CONTROLLER W/UPS	4 (1.2)	CABLE HANDHOLE	13 (4.0)	MAS* ARM (3) POLE	20' H-2"
D-CONTROLLER	4 (1.2)	SIGNAL POST	2 (0.6)	6m H-0.6m W	
E-V. ARM POLE		CONTROLLER CAB.	1 (0.3)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PEB. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.3)	ELECTRIC SERVICE	13.5 (4.2)
42" (1050mm)	25 (7.6)	GROUND CABLE	1 (0.3)	SERVICE TO GROUND	13.5 (4.2)
				POST MOUNTED	6 (1.8)



GANDH AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
805 N. NORTHWEST HIGHWAY  
SUITE 300  
CHICAGO, ILLINOIS 60631 TEL: (773) 774-5810

REVISIONS	
NAME	DATE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "TAG F" TO MATCH THE EXISTING ADJACENT SYSTEM.

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN,  
ILLINOIS ROUTE 47 AT ALGONQUIN RD  
STAGE 3, STAGE 3B, AND STAGE 3C  
(SHEET 3 OF 4)

SCALE: N.T.S.  
DATE: APRIL 17, 2009

DRAWN BY: ME,VA,YB  
DESIGNED BY: PKG/RRM  
CHECKED BY: PKG/RRM