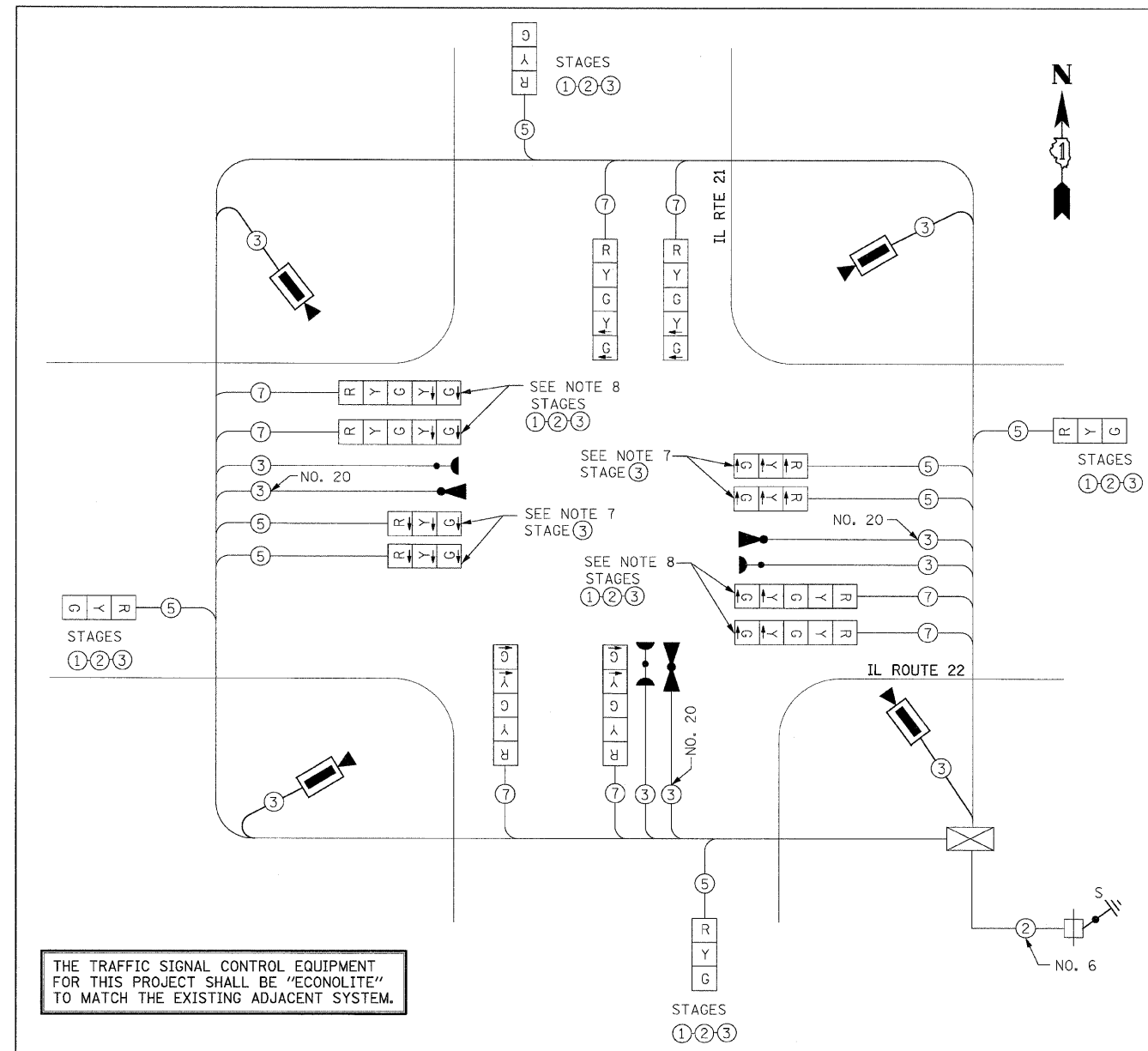


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-6	LAKE	149	69
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



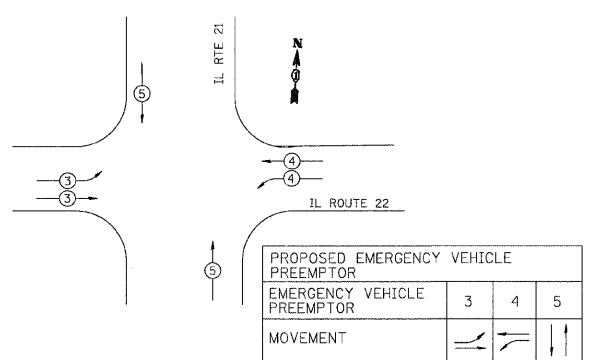
TEMPORARY CABLE DIAGRAM LEGEND

- [R] TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- [X] TEMPORARY CONTROLLER CABINET
- [S] TEMPORARY SERVICE INSTALLATION
- (5) INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- [A] EMERGENCY VEHICLE LIGHT DETECTOR
- [B] CONFIRMATION BEACON
- [C] VEHICLE DETECTOR, INDUCTION LOOP
- [D] PEDESTRIAN PUSHBUTTON DETECTOR
- [E] 12" (300mm) PEDESTRIAN SIGNAL SECTION
- [F] MICROWAVE VEHICLE SENSOR
- [G] GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- [H] VIDEO DETECTION CAMERA
- [I] RADIO ANTENNA

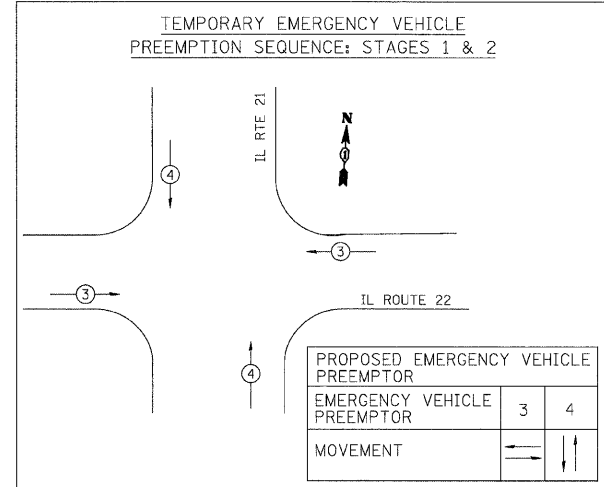
SIGNAL HEAD PLACEMENT LEGEND

- ① STAGE 1 MOT
 - ② STAGE 2 MOT
 - ③ STAGE 3 MOT
- THE PLACEMENT OF SIGNAL HEADS & PRE-EMPTION EQUIPMENT AS SHOWN ARE BASED ON THE MAINTENANCE OF TRAFFIC PLANS. THE ACTUAL LOCATIONS SHALL BE AS PER THE LANE CONFIGURATION DURING CONSTRUCTION STAGING & AS DIRECTED BY THE ENGINEER.

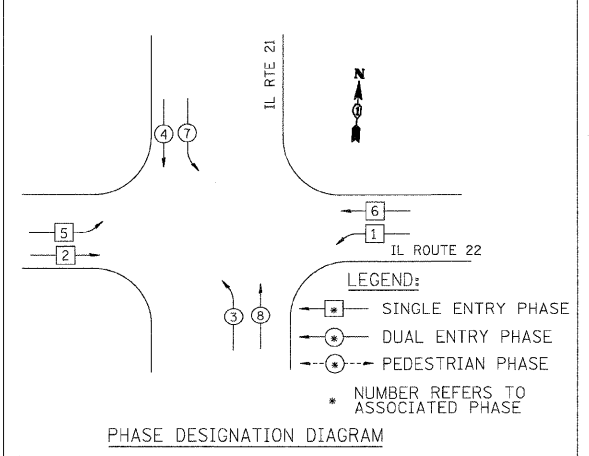
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE: STAGE 3



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE: STAGES 1 & 2



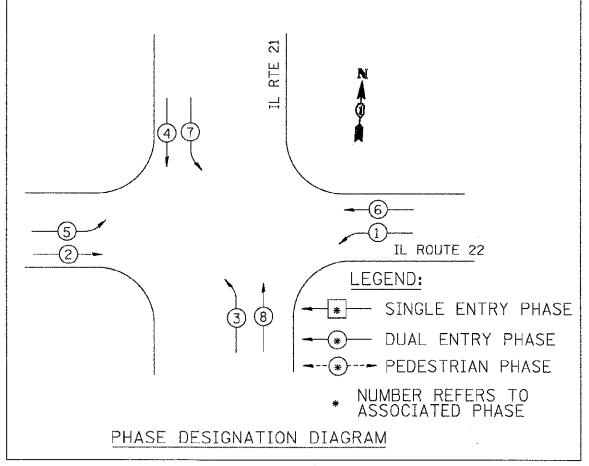
TEMPORARY CONTROLLER SEQUENCE: STAGE 3



NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OF TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. THESE SIGNALS HEADS SHALL BE BAGGED AND DISCONNECTED DURING STAGES 1 & 2. AT THE BEGINNING OF STAGE 3, THESE SIGNAL HEADS SHALL BE UNBAGGED AND ACTIVATED FOR USE UNTIL THE PERMANENT SIGNALS ARE INSTALLED.
8. AT THE BEGINNING OF STAGE 3, THE BOTTOM TWO SECTIONS OF THESE SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED.

TEMPORARY CONTROLLER SEQUENCE: STAGES 1 & 2



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

NO ROADWAY CONSTRUCTION WILL COMMENCE UNTIL THE TEMPORARY SIGNALS WITH TEMPORARY INTERCONNECT ARE CONSTRUCTED, INSPECTED AND TIMINGS ACCEPTED BY THE R-1 AREA TRAFFIC ENGINEER.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL VOLTAGE
TYPE	NO. LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	84	-	0.05	-
FLASHER	-	-	-	0.50	-
				TOTAL =	415.2

ENERGY COST TO: Illinois Department of Transportation
 Division of Highways / District 1
 201 West Center Court Schaumburg, Illinois 60196-1096
 ENERGY SUPPLY: CONTACT: Mr. Varughese Samuel
 PHONE: 847-816-5291
 COMPANY: ComEd

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 IL ROUTE 22 AND US RTE 45/IL RTE 21
 SCALE: NONE
 DATE: 1/28/2009
 DRAWN BY: RV
 DESIGNED BY: JY/AS
 CHECKED BY: AZ/MSA

PATRICK ENGINEERING INC. ILLINOIS
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