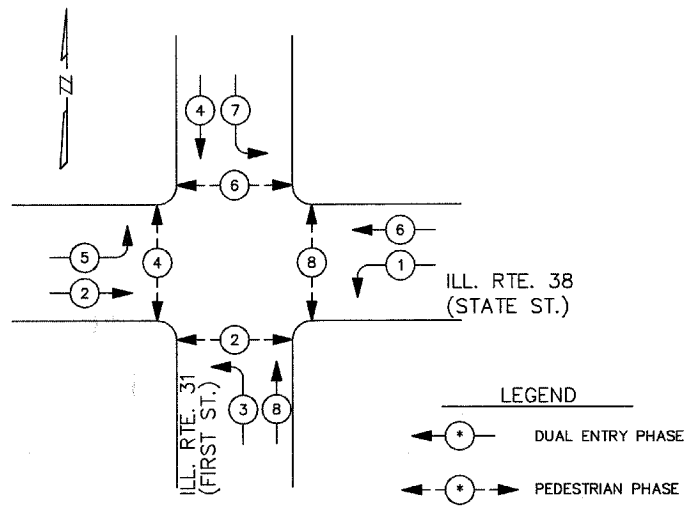
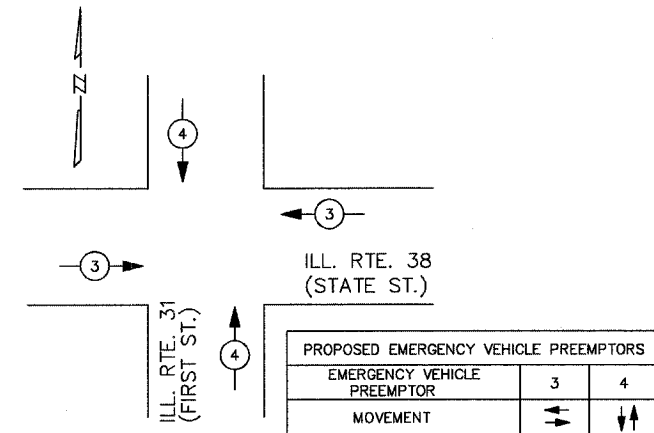


### TEMPORARY TRAFFIC SIGNAL CONTROLLER SEQUENCE

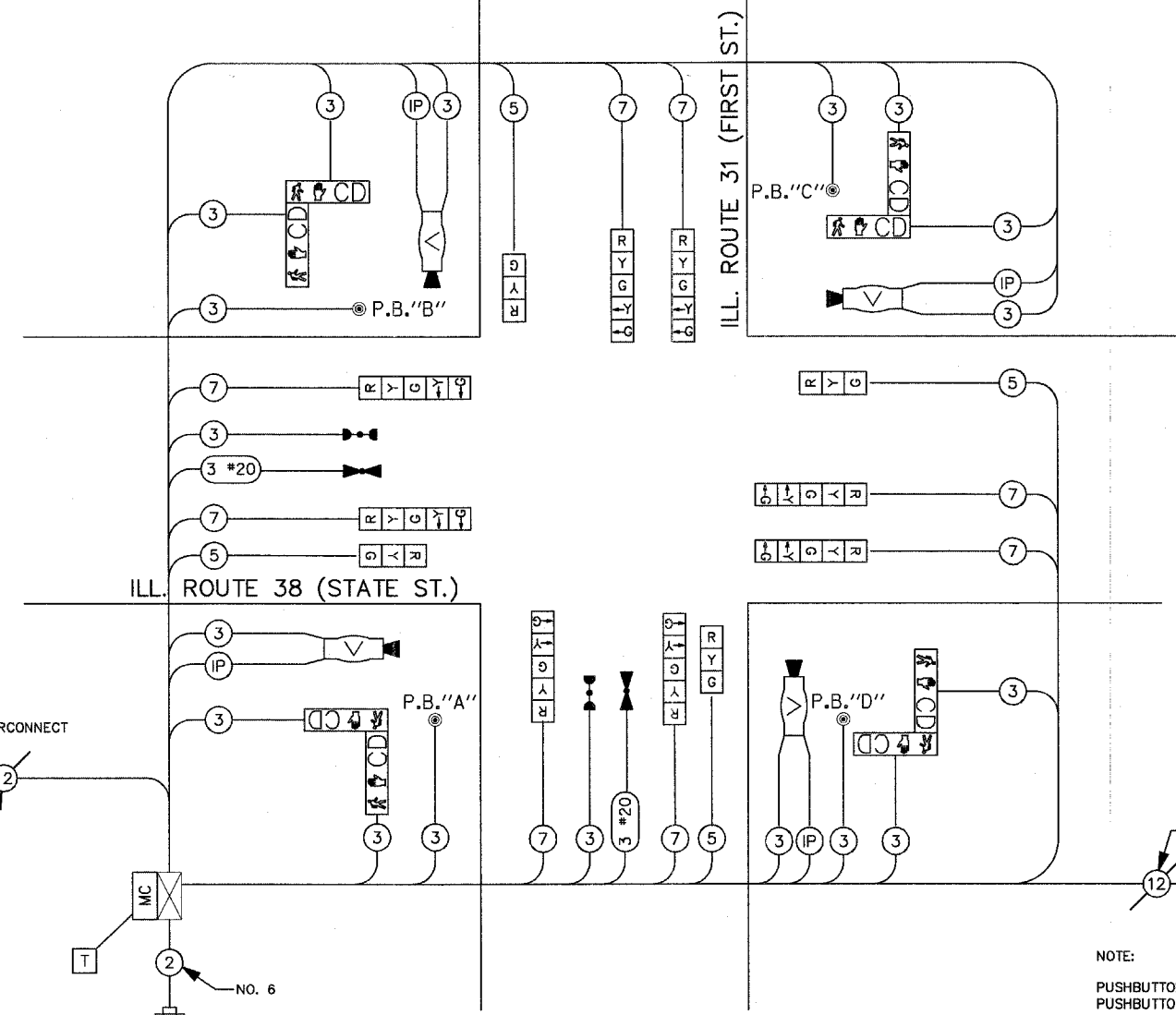


### TEMPORARY TRAFFIC SIGNAL PHASE DESIGNATION DIAGRAM

### TEMPORARY TRAFFIC SIGNAL EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING INTERCONNECT TO THIRD ST.  
FIBER OPTIC CABLE NO. 62.5/125, 12F



NOTE:  
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8  
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

### TEMPORARY CABLE PLAN LEGEND

- R TEMPORARY TRAFFIC SIGNAL SECTION 12"
- IP TEMPORARY 12" PEDESTRIAN SIGNAL SECTION 12"
- MC TEMPORARY CONTROLLER CABINET
- T TEMPORARY SERVICE INSTALLATION
- T TEMPORARY TELEPHONE SERVICE
- V EMERGENCY VEHICLE LIGHT DETECTOR
- C CONFIRMATION BEACON
- 2 INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- IP COAXIAL CABLE, 75-OHM WITH 20-GA. SOLID, BARE COPPER CONDUCTOR
- V VIDEO CAMERA ASSEMBLY
- C PEDESTRIAN PUSH BUTTON

### TEMPORARY TRAFFIC SIGNAL CABLE PLAN

### NOTES FOR TEMPORARY TRAFFIC SIGNALS

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR AS PER SPECIFICATION.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT. MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY TRAFFIC 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 OR TS2 CABINET. ONLY THE EAGLE BRAND CONTROLLER WILL BE ACCEPTED FOR THIS CONTRACT AS PER SPECIFICATIONS.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300MM). THE TEMPORARY TRAFFIC SIGNAL 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 AS PER SPECIFICATIONS.
- 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.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 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.
- ALL TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE OF ONLY INCANDESCENT TYPE ILLUMINATION EXCEPT THE PEDESTRIAN COUNT DOWN SIGNALS.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	x WATTAGE		% OPERATION	
SIGNAL (RED)	12	135		0.50	810.0
(YELLOW)	12	135		0.25	405.0
(GREEN)	12	135		0.25	405.0
ARROW	16	135		0.10	216.0
PED. SIGNAL	8		15	1.00	120.0
CONTROLLER	2	100		1.00	200.0
VIDEO CAMERA	4			1.00	68.0
FLASHER				0.50	
ENERGY COSTS TO: (EXISTING SERV.) CITY OF GENEVA 1800 SOUTH ST. GENEVA, IL					TOTAL = 2224.0
ENERGY SUPPLY CONTACT: JENNIFER HILKEMANN (630) 232-1501 GENEVA ELECT. DEPT.					

FOUNDATION (DEPTH)	FT.(m)	CABLE SLACK	FT.(m)	VERTICAL CABLE	FT.(m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - D-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2= (6m+L-0.6m)
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
< 30' MA 30" DIA	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
< 40' MA 30" DIA	13.5' (4.1)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
< 40' MA 36" DIA	11' (3.4)	ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
< 50' MA 36" DIA	13' (4.0)	GROUND CABLE	1 (0.5)	POST MOUNTED	6(1.8)
≥ 50' MA 36" DIA	15' (4.6)				

DIVISION OF TRANSPORTATION	
TEMPORARY TRAFFIC SIGNAL CABLE PLAN PHASE DESIGNATION DIAGRAM	
ILL. ROUTE 38 (STATE ST.) & ILL. ROUTE 31 (FIRST ST.)	
NAME	DATE
REVISIONS	
SCALE: NONE DATE: 11-28-06	
DRAWN BY: DESIGNED BY: CHECKED BY:	

PLOT DATE = 11/28/2006  
 FILE NAME = P:\MS\_VIS\23008155.dwg\YS.Temp Cable Plan.SHT  
 PLOT SCALE = #SCALE#  
 USER NAME = #USER#