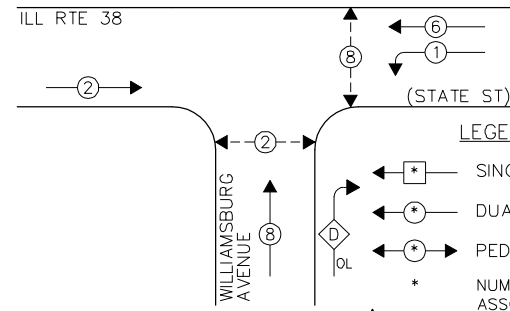


**CONTROLLER SEQUENCE**



OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE  
 D = 8 + 1

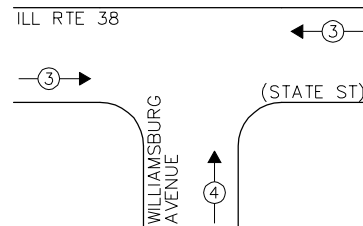


**LEGEND:**

- \*— SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE
- \*— OL OVERLAP

**PHASE DESIGNATION DIAGRAM**

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

TRACER CABLE

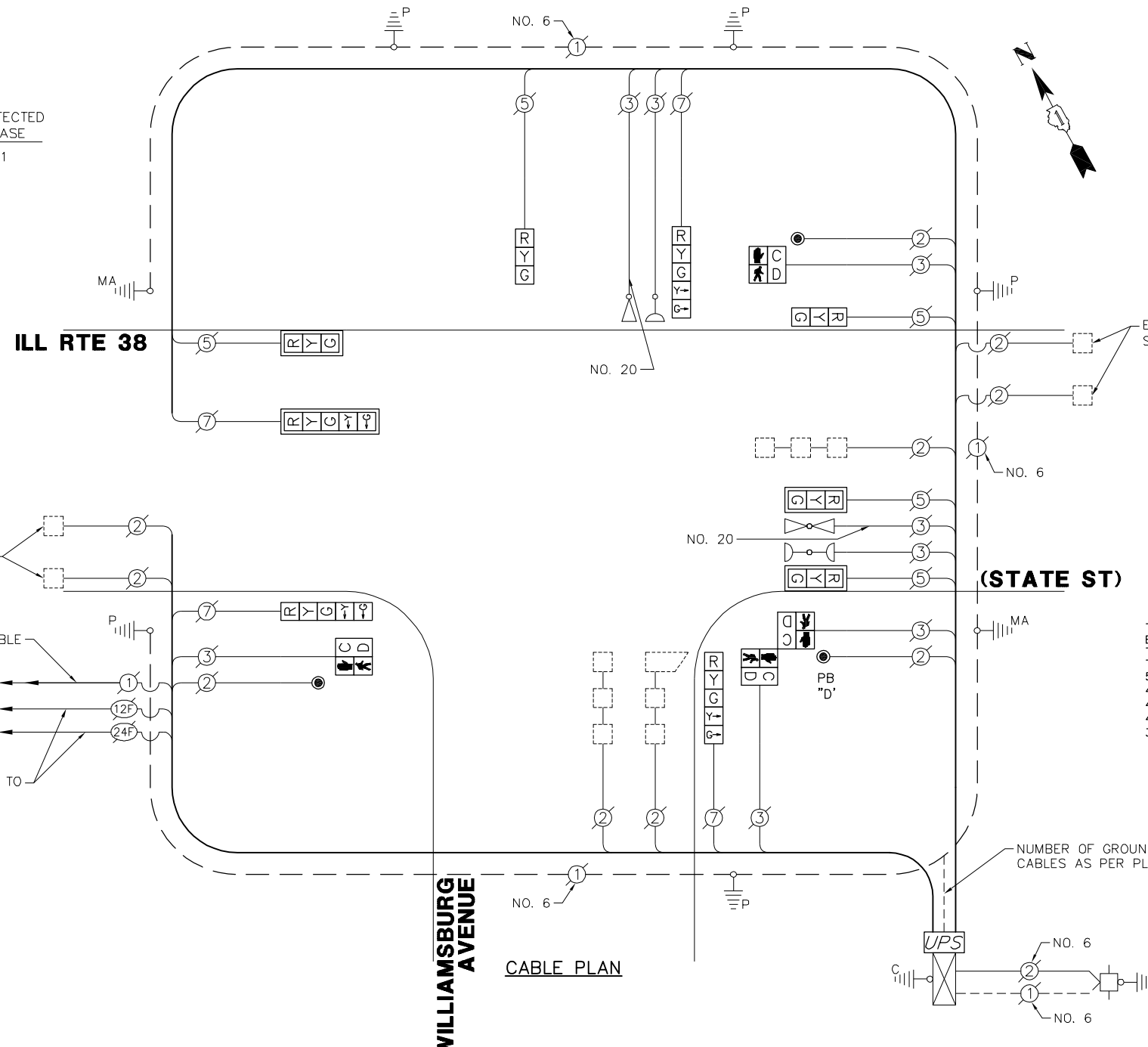
EXISTING INTERCONNECT TO 14TH ST / BIRCHER RD

**ILL RTE 38**

**WILLIAMSBURG AVENUE**

**(STATE ST)**

**CABLE PLAN**



EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

**NOTES:**

PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- 5 EACH SIGNAL HEAD, 3-SECTION
  - 4 EACH SIGNAL HEAD, 5-SECTION
  - 4 EACH TRAFFIC SIGNAL BACKPLATE
  - 4 EACH PEDESTRIAN SIGNAL HEAD
  - 3 EACH PEDESTRIAN PUSH BUTTON

NUMBER OF GROUND CABLES AS PER PLAN

**SCHEDULE OF QUANTITIES**

ILL RTE 38 (STATE STREET) AT WILLIAMSBURG AVENUE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
5.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
6.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
7.	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
10.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
12.	3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	9	135	17	0.50	76.5
SIGNAL (YELLOW)	9	135	25	0.25	56.25
SIGNAL (GREEN)	9	135	15	0.25	33.75
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					401.1

ENERGY COSTS - BILLED TO: CITY OF GENEVA  
 (ADDRESS) 22 S. FIRST STREET  
 (ADDRESS) GENEVA, IL 60134  
 ENERGY SUPPLY - CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 COMPANY: \_\_\_\_\_

FILE NAME = 4085.881-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
	PLOT SCALE = 1" = .0833'	DRAWN - ZCW	REVISED -
	PLOT DATE = 2/3/2012	CHECKED - KLB	REVISED -
		DATE - 2/3/2012	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE ILL RTE 38 (STATE ST) AT WILLIAMSBURG AVENUE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIABLES	2011-221-I	KANE	43	24
CONTRACT #:			60R81	
ILINOIS FED. AID PROJECT				

GHA #4085.881