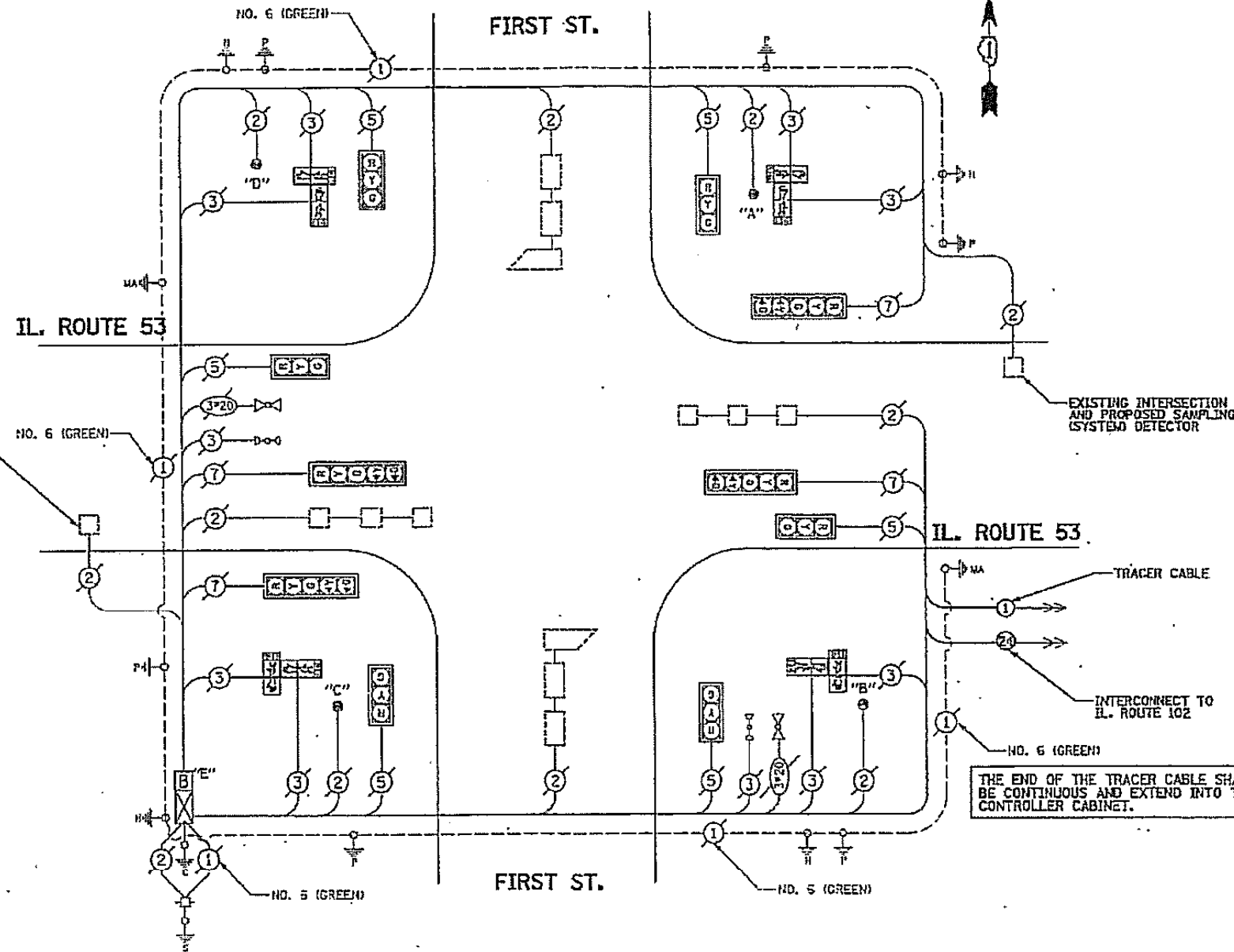


**CABLE PLAN LEGEND**

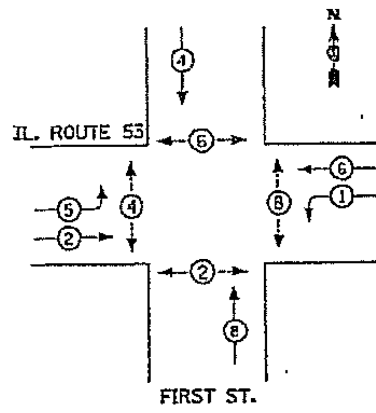
- EXISTING**   **PROPOSED**
- 8" (200mm) TRAFFIC SIGNAL SECTION
  - 12" (300mm) TRAFFIC SIGNAL SECTION
  - 12" (300mm) PEDESTRIAN SIGNAL SECTION
  - 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
  - CONTROLLER CABINET
  - SERVICE INSTALLATION
  - TELEPHONE CONNECTION
  - VEHICLE DETECTOR, INDUCTION LOOP
  - MAGNETIC DETECTOR
  - EMERGENCY VEHICLE LIGHT DETECTOR
  - CONFIRMATION BEACON
  - PUSHBUTTON DETECTOR
  - DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
  - GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
  - FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM/2F SMI2F
  - SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
  - RAILROAD CONTROL CABINET
  - ILLUMINATED SIGN "NO LEFT TURN"
  - ILLUMINATED SIGN "NO RIGHT TURN"
  - GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HH), OR MAST ARM POLE (MA)
  - GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
  - GROUND ROD AT ELECTRIC SERVICE INSTALLATION
  - VIDEO VEHICLE SENSOR
  - UNINTERRUPTIBLE POWER SUPPLY

**PROPOSED CABLE PLAN**



**NOTE:**  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THE PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM INSTALLATION

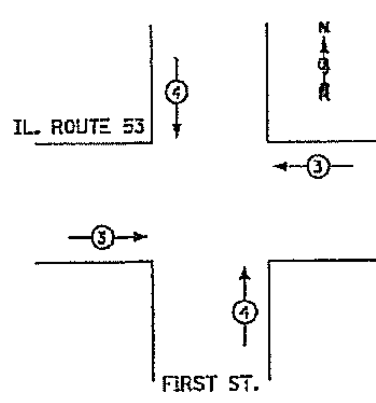
**CONTROLLER SEQUENCE**



**LEGEND**

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

**PHASE DESIGNATION DIAGRAM**



**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

**RESTORATION OF WORK AREA**

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOG AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

**NOTES:**

- PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 2 & 4
- PUSH-BUTTON "B" SHALL PLACE A CALL IN PHASES 4 & 6
- PUSH-BUTTON "C" SHALL PLACE A CALL IN PHASES 3 & 6
- PUSH-BUTTON "D" SHALL PLACE A CALL IN PHASES 2 & 3

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	%OPERATION	
SIGNAL (RED)	10	135	11	0.50	85.0
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	50	25	1.00	200.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN		81		0.05	
FLASHER					0.50
ENERGY COSTS TO:					TOTAL = 494.6

FOUNDATION DEPTH	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	1.65 (2.0)	ALL FOUNDATIONS	3.5 (0.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	1.13 (1.0)	MAST ARM B3 POLE	2.0 (1.2)
E - M. ARM POLE		SIGNAL POST	1.2 (1.0)		1.6 (1.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1.1 (0.5)	BRACKET MOUNTED	1.1 (1.0)
30" (750mm)	13 (4.6)	FIBER OPTIC	1.13 (1.0)	PED. PUSHBUTTON	1.4 (0.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1.1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1.1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	1.6 (0.0)

FILE NAME = 15-EXIST TS Plans 05.dgn  
PLOT DATE = 10/10/2012  
PLOT SCALE = 100.000000 / 1"

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web: www.spaan-tech.com

DESIGNED - TCM      REVISED -  
DRAWN - TCM        REVISED -  
CHECKED - YK        REVISED -  
DATE - OCTOBER 2012      REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC SIGNAL PLANS - SHEET 2 OF 2  
ILL RTE 53 AND FIRST STREET  
SCALE: N.T.S.      SHEET NO. 15 OF 15 SHEETS      STA. 110+00.00 TO STA. 128+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	K-29-A-BR-1	WILL	55	26A
CONTRACT NO. 60R63				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

**FOR INFORMATION ONLY**