



### CIRCUIT PERFORMANCE TEST

- SIGN LIGHTING  
 HIGHWAY LIGHTING

COUNTY
TOWNSHIP
SR & SEC
PROJECT NO.
INSPECTOR-IN-CHARGE

TEST PERFORMED BY \_\_\_\_\_

TEST WITNESSED BY \_\_\_\_\_

**ROADWAY LIGHTING:** Voltage drop to last light in circuit should not exceed 5% of the control cabinet voltage.

**SIGN LIGHTING:** Voltage drop to sign structure should not exceed 5% of the control cabinet voltage.

**BREAKER RATING:** Line current should not exceed 75% of the breaker rating.

The circuit voltage at the control cabinet should be within +/- 5% of the normal voltage (Typically 120v or 240v).

DATE	SUPPLY POLE	CIRCUIT NO.	LINE VOLTAEG MEASURED AT CONTROL CABINET						COMMENTS
			CIRCUIT VOLTAGE (V)		CIRCUIT VOLTAGE (Y)		VOLTAGE DIFFERENCE		
			NO LOAD (Lights Off)		FULL LOAD (Lights On)		((V-Y)/V)x100 = %		
			LINE 1	LINE 2	LINE 1	LINE 2	LINE 1	LINE2	

$$\frac{V-Y}{V} \times 100 = 5\% \text{ Max.}$$

DATE	SUPPLY POLE	CIRCUIT NO.	VOLTAEG MEASURED AT LAST LIGHT ON EACH RUN WITH STSTEM ENERGIZED						COMMENTS
			CONTROL CABINET CIRCUIT VOLTAGE (Y)		VOLTAGE AT * LAST LIGHT (V <sub>L</sub> )		VOLTAGE * DIFFERENCE		
			FULL LOAD (Lights On)		FULL LOAD (Lights On)		((Y-V <sub>L</sub> )/Y)x100 = %		
			LINE 1	LINE 2	LINE 1	LINE 2	LINE 1	LINE2	

$$\frac{Y-V_L}{Y} \times 100 = 5\% \text{ Max.}$$

\* ONLY ONE LINE AT LAST LIGHT – MAKE ENTRY IN PROPER COLUMN

DATE	SUPPLY POLE	CIRCUIT NO.	CURRENT MEASURED AT LOAD SIDE OF EACH DISTRIBUTION BREAKER						COMMENTS
			AMPERES ( I )		BREAKER RATING (BR)		( I/BR ) x 100 = %		
			LINE 1	LINE 2	LINE 1	LINE 2	LINE 1	LINE2	

$$\frac{I}{BR} \times 100 = 75\% \text{ Max.}$$