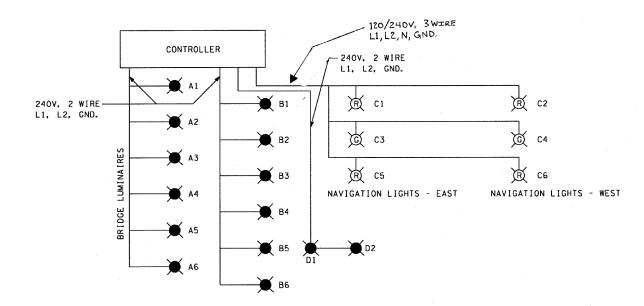
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CONTRACT NO. 66607 COUNTY TOTAL SHEET NO. SECTION (109) BR LASALLE 351 190 TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



## POWER REQUIREMENTS

CONTROLLER #1:

SERVICE - 120/240 V, 1 PHASE, 3W, 60A  $6 \times 250W = 1500W$ 

CIRCUIT A

CIRCUIT B CIRCUIT C 6×250W = 1500W  $6 \times 15 W = 90 W$ 

3590 WATTS

CIRCUIT D 2x250w = 500W

TOTAL LOAD

LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS LAYOUT DATA:

PERFORMANCE REQUIREMENTS

## NOTES:

- 1) H-O-A SWITCH WITH ENGRAVED NAMEPLATE AS DETAILED.
- (2) PHOTOCELL WITH INTEGRAL SURGE SUPPRESSOR.
- CONTACTOR, 30A, 2P, 120V COIL, ELECTRICALLY HELD.
- (4) CIRCUIT BREAKER 20A, 2P. 240V, INCLUDE 2 SPARE.
- (5) CIRCUIT BREAKER 20A, 1P, 120 V.
- MAIN CIRCUIT BREAKER, 60A, 2P, 240V.
- (7) MAIN CIRCUIT BREAKER, 30A, 2P, 240V.
- (8) CONTACTOR, 100 A, 2P, 120V COIL, ELECTRICALLY HELD.
- (9) SURGE ARRESTER.
- NAVIGATION PHOTOCELL WITH U.S. COAST GUARD APPROVED SETTINGS.



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SERVICE WIRING 120/240 V

(5)

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OFF ON AUTO HIGHWAY

WIRING DIAGRAM

SWITCH NAMEPLATES

## GENERAL NOTES:

WIRING SHALL BE PANEL BOARD FASHION. ALL BENDS SHALL BE RIGHT ANGLES. ALL RUNS SHALL BE VERTICAL OR PARALLEL TO PANEL BOARD. WIRES SHALL BE GROUPED OR LACED.

ALL CONTROL INSTALLATION COMPONENTS SHALL BE U.L. LISTED.

LABEL EQUIPMENT GROUND AND NEUTRAL.

LOCATE SERVICE POLE AND CONTROL INSTALLATION ADJACENT TO R.O.W. LINE WITH A MINIMUM DISTANCE OF 30' FROM THE EDGE OF PAVEMENT. EXACT LOCATION SHALL BE ESTABLISHED BY THE ENGINEER.

THE UNDERGROUND SERVICE ENTRANCE WIRING SHALL NO EXCEED 150'. TOTAL AERIAL AND UNDERGROUND SERVICE BETWEEN THE CONTROL INSTALLATION AND PRIMARY TRANSFORMER SHALL NOT EXCEED 250'.

RACEWAYS SHALL TERMINIATE 3" ABOVE TOP OF CONCRETE FOUNDATION.

NAVIGATION LIGHTING C1 - C6

ROADWAY FIXTURES D1 - D2

TO LIGHT FIXTURES ON BRIDGE A1, B1 THRU A6, B6

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ILLINOIS DEPARTMENT OF TRANSPORTATION

ELECTRICAL SCHEMATICS IL 170 BRIDGE REPLACEMENT AT SENECA

> SCALE: 1" = 50' DATE: OCTOBER, 2007

DRAWN BY CJO CHECKED BY JCL

DATE NAME SCALE NAME