



CONTROLS WIRING DIAGRAM (WD10)

DESCRIPTION:

- SINGLE CIRCUIT, TWO RELAY LIGHTING CONTROL, PARTIAL AUTO ON, PARTIAL AUTO OFF
- NO RECEPTACLE CONTROL
- CEILING OCCUPANCY SENSOR(S), LOW-VOLTAGE SWITCH(ES)

NOTES:

- PROVIDE ONE ROOM CONTROLLER FOR THE SET OF LUMINAIRES IN THE ROOM DESIGNED TO BE CONTROLLED SEPARATELY. OR FOR EACH CIRCUIT TO BE CONTROLLED. PROVIDE OCCUPANCY SENSORS AS INDICATED ON PLANS. PROVIDE ONE OR MORE LOW-VOLTAGE SWITCHES FOR EACH SPACE TO BE CONTROLLED. SEE PROGRAMMING NOTES.
- PROGRAM BUTTON TO OPERATE 'b' LOADS "ON" AND "OFF".
- IT IS THE INTENT OF THIS WIRING DIAGRAM TO REPRESENT SITUATIONS INVOLVING LUMINAIRES WITH MULTIPLE LIGHT LEVELS (STEP-DIMMING).

SEQUENCE OF OPERATION:

- 50% LIGHTING SYSTEM IS ALWAYS "ON" (LIGHTING LOAD 'a'). REMAINING SYSTEM 50% (LIGHTING LOAD 'b') TURNS "ON" WHEN LOW-VOLTAGE SWITCH IS OPERATED, OR AUTOMATICALLY TURNS "ON" WHEN SENSOR DETECTS OCCUPANCY.
- SYSTEM 50% TURNS "OFF" (LIGHTING LOAD 'b') WHEN LOW-VOLTAGE SWITCH IS OPERATED, OR WHEN OCCUPANCY SENSORS NO LONGER DETECT THAT THE ROOM IS OCCUPIED AND THE PROGRAMMED TIME DELAY HAS ELAPSED.
- ENTIRE SYSTEM TURNS "OFF" WHEN THE BUILDING IS UNOCCUPIED, OR WHEN THE PROGRAMMED TIME DELAY HAS ELAPSED.

GENERAL NOTES: (APPLICABLE TO ENTIRE SHEET)

- VERIFY WIRING REQUIREMENTS WITH MANUFACTURER. WIRING MAY DIFFER BETWEEN MANUFACTURERS.
- FOR QUANTITY OF SENSORS AND SWITCHES, REFER TO LIGHTING PLANS.
- AUTOMATIC LIGHTING CONTROL SYSTEM MUST COMPLY WITH NFPA 101, 7.8.1, TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
 - THE AUTOMATIC LIGHTING CONTROL DEVICE MUST BE LISTED.
 - THE AUTOMATIC LIGHTING CONTROL MUST BE EQUIPPED TO AUTOMATICALLY ENERGIZE THE CONTROLLED LIGHTS UPON LOSS OF NORMAL POWER. SEE FIRE PROTECTION DRAWINGS FOR REQUIREMENTS.
 - THE AUTOMATIC LIGHTING CONTROL DEVICE IS ACTIVATED BY OCCUPANT MOVEMENT IN THE AREA SERVED.
 - THE AUTOMATIC LIGHTING CONTROL DEVICE IS ACTIVATED BY ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM.
 - THE AUTOMATIC LIGHTING CONTROL DEVICE DOES NOT CAUSE THE DE-ENERGIZING OF EMERGENCY BATTERIES.
 - PROVIDE ALL CONDUIT, WIRING DEVICES, AND CONNECTIONS REQUIRED.
- SUBMIT SHOP DRAWING OF ENTIRE SYSTEM, TO INCLUDE BUT NOT LIMITED TO PRODUCT DATA AND WIRING/CONTROL DIAGRAMS FOR REVIEW AND APPROVAL.
- INSTALL ALL CABLES IN CONDUIT. MINIMUM CONDUIT SIZE AS PER SPECIFICATION 16402.

IF SHEET IS LESS THAN 24" X 36"
REDUCED PRINT - USE GRAPHIC SCALES

REVISIONS		
No.	Description	Date

TRMA

Taniguchi Ruth Makio Architects
100 Cliff Business Center, P.O. Box EA, Agaña, GU 96910
Tel.: (671) 475-8772 • Fax.: (671) 472-3381

Architecture
Planning
Interior Design

eme

EMCE • Consulting engineers
SUITE 201, 133 ANTONIA COURT
P.O. BOX 8888 TAMUNING, GUAM 96931
671 . 649-0166/7 Phone
671 . 646-EMCE (3623) Fax

Professional Engineer Seal for Ponter V. Mariano, Registered Professional Engineer 373, State of Northern Mariana.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.
Date: 10/7/2022

Project:
NMC
PACKAGE 1: STUDENT
CENTER BUILDING

Title:
MISCELLANEOUS
DIAGRAMS - SHEET 16
CONSTRUCTION
DOCUMENTS

Designed: JF/LB
Drawn: NP/RS
Checked: IA/AM
Supv: AM
Scale: AS INDICATED
Date: 10/07/2022
Project No. File

Drawing No.
E2.20
Sheet No. of