

4-2 LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: LCC-L1			LOCATION: ELEC 115			MOUNTING: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH			PANEL TYPE: <input type="checkbox"/> MAIN <input type="checkbox"/> EXPANSION		
LCP VOLTAGE: <input type="checkbox"/> 120V <input checked="" type="checkbox"/> 277V			REMARKS: FED FROM PANEL "4L1"								
RELAY/CIRC NO.	CYCLE	ZONE	RELAY CONTROLS	ROOM SERVED	LOAD		ROOM SERVED	RELAY CONTROLS	ZONE	CYCLE	RELAY/CIRC NO.
					VOLTS	VA					
1/4L1-1	BUSINESS CYCLE	1A	TIMECLOCK ON/OFF SWITCH OVERRIDE	LIBRARY BOOKSTORE STORAGE	277	SEE PANELBOARD SCHEDULE FOR LOADS	HALLWAY	TIMECLOCK ON/OFF SWITCH OVERRIDE	1A	ALWAYS ON ⬇	2/4L1-2
3/4L1-3	BUSINESS CYCLE	1A	TIMECLOCK ON/OFF SWITCH OVERRIDE	OFFICE STORAGE	277		UTILITY ROOMS	TIMECLOCK ON/OFF SWITCH OVERRIDE	1A	AFTER BUSINESS CYCLW	4/4L1-4
5/4L1-5	BUSINESS CYCLE	1A	TIMECLOCK ON/OFF SWITCH OVERRIDE	STORAGE, RESTROOMS	277		LOUNGE	TIMECLOCK ON/OFF SWITCH OVERRIDE	1A	BUSINESS CYCLE	6/4L1-6
7/4L1-7	BUSINESS CYCLE	1A	TIMECLOCK ON/OFF SWITCH OVERRIDE	OFFICE, LOUNGE	277		STAIRS (EAST)	TIMECLOCK ON/OFF SWITCH OVERRIDE	1A, 2A, 3A	ALWAYS ON ⬇	8/4L1-8
9/4L1-9	BUSINESS CYCLE	1A	TIMECLOCK ON/OFF SWITCH OVERRIDE	OFFICE	277		STAIRS (WEST)	TIMECLOCK ON/OFF SWITCH OVERRIDE	1A, 2A, 3A	ALWAYS ON ⬇	10/4L1-10
11/4L1-11	EXTERIOR LIGHT CYCLE A	-	TIMECLOCK ON/OFF SWITCH OVERRIDE	EXTERIOR	277		DINING, MULTI-PURPOSE HALL	TIMECLOCK ON/OFF SWITCH OVERRIDE	1A	BUSINESS CYCLE	12/4L1-12
13/4L1-13	EXTERIOR LIGHT CYCLE B	-	TIMECLOCK ON/OFF SWITCH OVERRIDE	EXTERIOR	277		EXTERIOR	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	EXTERIOR LIGHT CYCLE B	14/4L1-14
15/4L1-15	EXTERIOR LIGHT CYCLE A	-	TIMECLOCK ON/OFF SWITCH OVERRIDE	EXTERIOR	277		EXTERIOR	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	EXTERIOR LIGHT CYCLE A	16/4L1-16

NOTE: LIGHTING CONTROL PANEL SCHEDULE SUPPLEMENTS THE PANEL SCHEDULE CIRCUIT DESIGNATIONS ONLY

4-2 LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: LCC-L3			LOCATION: ELEC 308			MOUNTING: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH			PANEL TYPE: <input type="checkbox"/> MAIN <input type="checkbox"/> EXPANSION		
LCP VOLTAGE: <input type="checkbox"/> 120V <input checked="" type="checkbox"/> 277V			REMARKS: FED FROM PANEL "4L3"								
RELAY/CIRC NO.	CYCLE	ZONE	RELAY CONTROLS	ROOM SERVED	LOAD		ROOM SERVED	RELAY CONTROLS	ZONE	CYCLE	RELAY/CIRC NO.
					VOLTS	VA					
1/4L3-1	BUSINESS CYCLE	3A	TIMECLOCK ON/OFF SWITCH OVERRIDE	OFFICE FOR EVENT RM	277	SEE PANELBOARD SCHEDULE FOR LOADS	HALLWAY	TIMECLOCK ON/OFF SWITCH OVERRIDE	3A	ALWAYS ON ⬇	2/4L3-2
34L3-3	BUSINESS CYCLE	3A	TIMECLOCK ON/OFF SWITCH OVERRIDE	STORAGE, RESTROOMS	277		UTILITY ROOMS	TIMECLOCK ON/OFF SWITCH OVERRIDE	3A	AFTER BUSINESS CYCLE	4/4L3-4
5/4L3-5	BUSINESS CYCLE	3A	TIMECLOCK ON/OFF SWITCH OVERRIDE	OFFICE	277		EXTERIOR	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	EXTERIOR LIGHT CYCLE B	6/4L3-6
7/4L3-7	EXTERIOR LIGHT CYCLE A	-	TIMECLOCK ON/OFF SWITCH OVERRIDE	EXTERIOR	277		EXTERIOR	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	EXTERIOR LIGHT CYCLE A	8/4L3-8
9/4L3-9	EXTERIOR LIGHT CYCLE A	-	TIMECLOCK ON/OFF SWITCH OVERRIDE	EXTERIOR	277		-	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	-	10/SPARE
11/4L3-11	EXTERIOR LIGHT CYCLE B	-	TIMECLOCK ON/OFF SWITCH OVERRIDE	EXTERIOR	277		-	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	-	12/SPARE
13/SPARE	-	-	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	⬇		BUILDING SIGNAGE LOGO	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	EXTERIOR LIGHT CYCLE A	14/2SCN3-17
15/4L3-15	EXTERIOR LIGHT CYCLE B	-	TIMECLOCK ON/OFF SWITCH OVERRIDE	EXTERIOR	⬇		BUILDING SIGNAGE LOGO	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	EXTERIOR LIGHT CYCLE A	16/2SCN3-19

NOTE: LIGHTING CONTROL PANEL SCHEDULE SUPPLEMENTS THE PANEL SCHEDULE CIRCUIT DESIGNATIONS ONLY

4-2 LIGHTING CONTROL PANEL SCHEDULE

PANEL NAME: LCC-L2		LOCATION: ELEC 214			MOUNTING: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH			PANEL TYPE: <input type="checkbox"/> MAIN <input type="checkbox"/> EXPANSION			
LCP VOLTAGE: <input type="checkbox"/> 120V <input checked="" type="checkbox"/> 277V			REMARKS: FED FROM PANEL "4L2"								
RELAY/CIRC NO.	CYCLE	ZONE	RELAY CONTROLS	ROOM SERVED	LOAD		ROOM SERVED	RELAY CONTROLS	ZONE	CYCLE	RELAY/CIRC NO.
					VOLTS	VA					
1/4L2-1	BUSINESS CYCLE	2A	TIMECLOCK ON/OFF SWITCH OVERRIDE	LIBRARY	277	SEE PANELBOARD SCHEDULE FOR LOADS	HALLWAYS	TIMECLOCK ON/OFF SWITCH OVERRIDE	2A	ALWAYS ON ⬇	2/4L2-2
3/4L2-3	BUSINESS CYCLE	2A	TIMECLOCK ON/OFF SWITCH OVERRIDE	MTG. ROOM, OFFICE, LIBRARY	277		STORAGE, RESTROOMS	TIMECLOCK ON/OFF SWITCH OVERRIDE	2A	BUSINESS CYCLE	4/4L2-4
5/4L2-5	BUSINESS CYCLE	2A	TIMECLOCK ON/OFF SWITCH OVERRIDE	TECH LOUNGE	277		FACULTY LOUNGE	TIMECLOCK ON/OFF SWITCH OVERRIDE	2A	BUSINESS CYCLE	6/4L2-6
7/4L2-7	BUSINESS CYCLE	2A	TIMECLOCK ON/OFF SWITCH OVERRIDE	OFFICE	277		TESTING	TIMECLOCK ON/OFF SWITCH OVERRIDE	2A	BUSINESS CYCLE	8/4L2-8
9/4L2-9	BUSINESS CYCLE	2A	TIMECLOCK ON/OFF SWITCH OVERRIDE	NURSING, MTG. RM.	277		TUTORING CENTER	TIMECLOCK ON/OFF SWITCH OVERRIDE	2A	BUSINESS CYCLE	10/4L2-10
11/4L2-11	AFTER BUSINESS CYCLE	2A	TIMECLOCK ON/OFF SWITCH OVERRIDE	UTILITY ROOMS	277		-	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	-	12/SPARE
13/4L2-13	BUSINESS CYCLE	2A	TIMECLOCK ON/OFF SWITCH OVERRIDE	WALL FEATURE LIGHTING	277		-	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	-	14/SPARE
15/SPARE	-	-	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	⬇		BUILDING SIGNAGE LOGO	TIMECLOCK ON/OFF SWITCH OVERRIDE	-	-	16/2SCN2-19

NOTE: LIGHTING CONTROL PANEL SCHEDULE SUPPLEMENTS THE PANEL SCHEDULE CIRCUIT DESIGNATIONS ONLY

LIGHTING CONTROL PROGRAMMING SCHEDULE			
SCHEDULED EVENT	TIME CLOCK ON	TIME CLOCK OFF	REMARKS
BUSINESS CYCLE	6:30AM	7:00PM	OVERRIDE SWITCHES FOR ZONES INDICATED
AFTER BUSINESS CYCLE	6:30AM	10:00PM	OVERRIDE SWITCHES FOR ZONES INDICATED
ENERGY CYCLE	6:30AM	12:00AM	OVERRIDE SWITCHES FOR ZONES INDICATED
EXTERIOR LIGHT CYCLE A	DUSK	DAWN	
EXTERIOR LIGHT CYCLE B	DUSK	1:00AM	
ALWAYS ON	-	--	

NOTE: REFER TO THE 'CYCLE' COLUMN ON EACH LIGHTING CONTROL PANEL FOR SCHEDULE

NOTES:

⬇ ALTHOUGH CYCLES/SCHEDULED EVENT INDICATES " ALWAYS ON", A BYPASS SWITCH IS PROVIDED IN CASE FUTURE ADJUSTMENTS ARE MADE TO THE SCHEDULE. IF AN ADJUSTMENT IS MADE, THE INDICATED BYPASS SWITCHES WILL ALLOW THE OVERRIDE OF THE AUTOMATIC "OFF" CONTROL.

⬇ PROVIDE WITH PHOTOCCELL.

⬇ PROVIDE DUAL RATED VOLTAGE COMPATIBLE FOR 120/277 VOLT LOAD.

⬇ PROVIDE MINIMUM 20% SPACE RELAY CONTROLS.

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.
  - 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.
- SUBMIT SHOP DRAWING OF ENTIRE SYSTEM, TO INCLUDE BUT NOT LIMITED TO PRODUCT DATA AND WIRING/CONTROL DIAGRAMS FOR REVIEW AND APPROVAL.
- PROVIDE IN-LINE SURGE PROTECTION DEVICE BETWEEN BRANCH CIRCUIT BREAKER AND LIGHTING SYSTEM CONTROLLER. IN-LINE SURGE PROTECTION DEVICE WITH THE FOLLOWING PROPERTIES.
  - SUITABLE FOR USE ON LIGHTING CONTROLLERS, 277V.
  - ENTIRE UNIT UL 1449 LISTED.
  - INSTALLED WITHIN A UL LISTED ENCLOSURE.
  - PROTECTION MODES:
    - LINE-TO-NEUTRAL
    - LINE-TO-GROUND
    - NEUTRAL-TO-GROUND
  - PEAK SURGE CURRENT: 20KA PER MODE/60KA TOTAL.
  - UL 1449 VOLTAGE PROTECTION RATING (VPR) LESS THAN THE FOLLOWING
    - LINE-TO-NEUTRAL:1200
    - LINE-TO-GROUND:1000
    - NEUTRAL-TO-GROUND: 1000
  - MINIMUM MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV) RATING OF 320
  - PROVIDE FORM C DRY CONTACTS FOR REMOTE MONITORING.
  - WARRANTY: NOT LESS THAN A 5-YEARS WARRANTY AND INCLUDE UNLIMITED FREE REPLACEMENTS OF THE UNIT IF DESTROYED BY LIGHTNING OR OTHER TRANSIENTS DURING THE WARRANTY PERIOD.
  - DIAGNOSTICS: VISUAL INDICATION UNIT HAS MALFUNCTIONED OR REQUIRES REPLACEMENT.
  - INSTALL DEVICE SUCH THAT IT IS THE LAST DEVICE IN THE CIRCUIT BEFORE THE LIGHTING CONTROL PANEL TO BE PROTECTED AND LOCATE AS CLOSE AS POSSIBLE TO THE LIGHTING CONTROL PANEL. PROVIDE PERMANENT LABEL.
  - INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. PROVIDE ALL MATERIALS AND COMPONENTS AS REQUIRED FOR A COMPLETE AND USEABLE SYSTEM.

⬇ COORDINATE WITH USER FINAL PROGRAMMING SCHEDULE AND CYCLE SELECTION.

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

REVISIONS		
No.	Description	Date
1	ADDENDUM 1	12/6/22

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REGISTERED PROFESSIONAL ENGINEER 373  
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION  
*Abm V. Morris*  
DATE: 10/7/2022

Project:  
NMC  
PACKAGE 1: STUDENT CENTER BUILDING

Title:  
MISCELLANEOUS DIAGRAMS - SHEET 2  
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.

E2.6

Sheet No. of