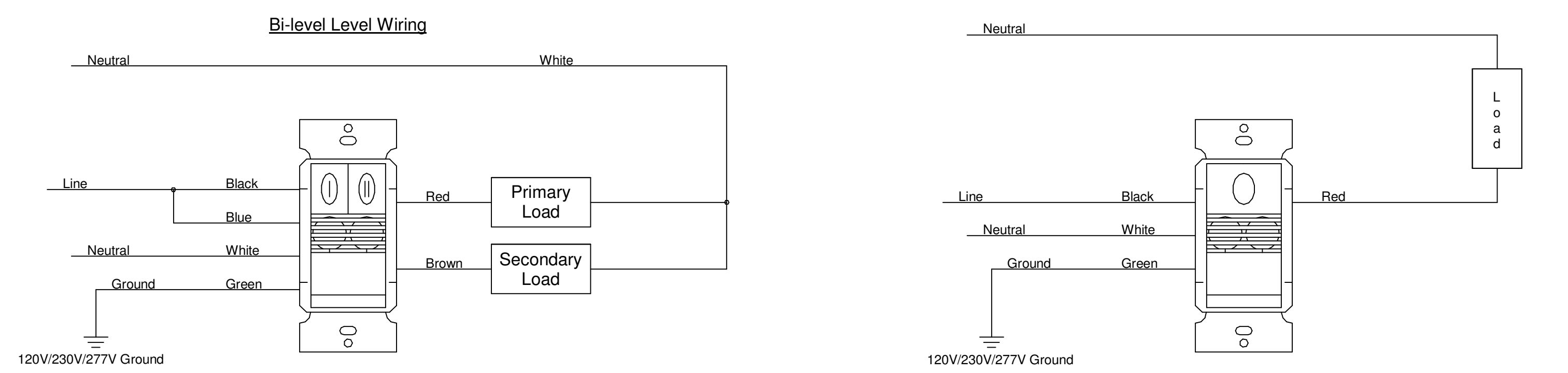


- TYPICAL SINGLE ZONE, DUAL ZONE SPACES:**
1. AUTOMATIC ON TO 35FC MEASURED AT DESK; USER MAY MANUALLY RAISE/LOWER.
  2. OCCUPANCY SENSORS CONTROL ALL FIXTURES IN ROOM AS ONE ZONE, TIME DELAY 10 MIN.
  3. DAYLIGHT SENSOR CONTROLS EACH FIXTURE INDIVIDUALLY, SETPOINT 35FC.
  4. SCENE CONTROL: LECTURE MODE - ALL ZONES TO PROVIDE 35FC AT WORK SURFACE. AV MODE - TURN OFF ZONE CLOSEST TO THE AV SOURCE. DIM REMAINING TO 20%.

# 1 STAND-ALONE WIRELESS LIGHTING CONTROL SYSTEM

SCALE: NTS



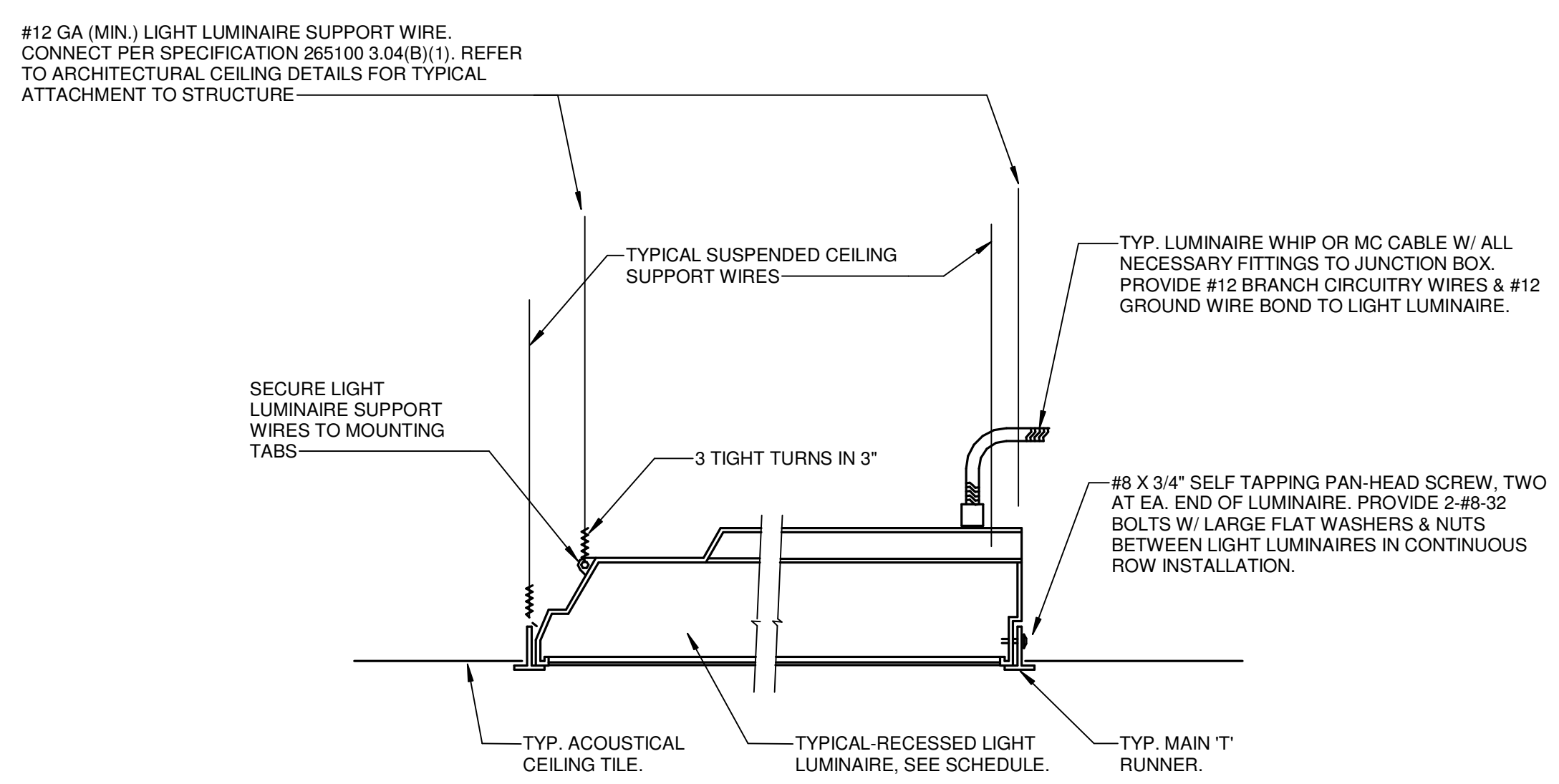
**DUAL RELAY WALL MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR**  
 Typical at private offices, small conference rooms, etc.  
 Primary load (switchleg 'a') is automatic on, automatic off  
 Secondary load (switchleg 'b') is manual on, automatic off  
 Set up light level sensor in any room with available daylight

**SINGLE RELAY WALL MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR**  
 Typical at storage rooms, custodial rooms, etc.  
 Primary load (switchleg 'a') is automatic on, automatic off  
 Set up light level sensor in any room with available daylight

**NOTE:**  
 ALL SINGLE AND DUAL RELAY LINE VOLTAGE WALLBOX SENSORS, SHOWN AS EXISTING ON THE PLANS, ARE TO BE REPLACED WITH NEW DEVICES TO MEET SPECIFICATION REQUIREMENTS. PROVIDE NEW DEVICE PLATE AS REQUIRED.

# 2 WALLBOX OCCUPANCY SENSOR WIRING DIAGRAM

SCALE: 12" = 1'-0"



# 3 RECESSED LUMINAIRE AT T-BAR CEILING

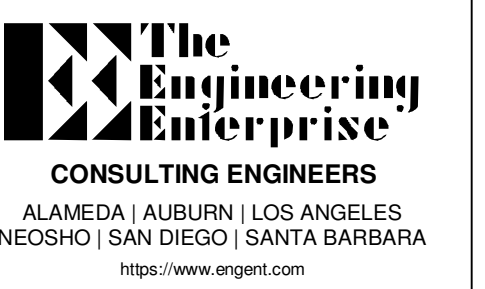
SCALE: NTS

## GENERAL SHEET NOTES

- PROVIDE STAND-ALONE (ROOM BASED) WIRELESS LIGHTING CONTROLS, CONSISTING OF LINE POWERED DEVICES: LUMINAIRE-INTEGRATED CONTROLS (OCCUPANCY SENSORS, DAYLIGHT SENSORS ETC. BASIS OF DESIGN IS FLIGHT AIR TO MATCH RECENT INSTALLATIONS ON CAMPUS. SUBSTITUTIONS ONLY WITH DIRECT PERMISSION FROM THE OWNER.
- CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWINGS FOR ALL LIGHTING CONTROLS, TO INCLUDE PRODUCT DATA SHEETS, DETAILED ROOM BY ROOM CONTROL DIAGRAMS, AND COMPLETE SEQUENCE OF CONTROL OPERATIONS.
- CONTROL DIAGRAMS HAVE BEEN PROVIDED TO CONVEY GENERAL DESIGN INTENT. PROVIDE ALL COMPONENTS, SOFTWARE & PROGRAMMING, CABLING, ETC. AS REQUIRED TO PROVIDE A FULLY FUNCTIONAL SYSTEM MEETING THE DESIGN INTENT AS SHOWN ON THE PLANS.
- NOT ALL COMPONENTS OF THE LIGHTING CONTROL SYSTEM AS SHOWN ON THE PLANS; CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. ALL COMPONENTS SHALL BE LOCATED IN ACCESSIBLE CEILING SPACE WHERE EASILY SERVICEABLE WITHOUT MOVING FURNITURE. USE TYPE-ON-TAPE LABELS ON GRID CEILING RUNNERS TO IDENTIFY LOCATION OF POWER PACKS AND OTHER COMPONENTS CONCEALED IN ACCESSIBLE CEILING SPACE. IF THE ROOM CEILING IS NOT ACCESSIBLE, LOCATE IN ADJACENT ROOM ACCESSIBLE CEILING SPACE AND DENOTE LOCATION ON THE RECORD DRAWINGS.
- BASIS OF DESIGN DOES NOT REQUIRE 0-10V WIRING OR NETWORK CABLING BETWEEN A MAJORITY OF THE COMPONENTS. SUBSTITUTIONS THAT REQUIRE ADDITIONAL WIRING MUST INCLUDE INSTALLATION OF WIRING IN CONDUIT AT NO ADDITIONAL COST.
- LIGHTING CONTROL DEVICE ATTIC STOCK - PROVIDE THE FOLLOWING ADDITIONAL COMPONENTS AS ATTIC STOCK, TO BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE PROJECT. IN ADDITION, THE CONTRACTOR SHALL INCLUDE INSTALLATION/PROGRAMMING OF THESE COMPONENTS IN THE BID, TO ACCOMMODATE POTENTIAL DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND ACTUAL CONDITIONS IN THE FIELD:  
 LINE POWERED WIRELESS DIMMER SWITCHES: 15 SINGLE ZONE, 5 DUAL-ZONE  
 BATTERY POWERED WIRELESS DIMMER SWITCHES: 5 SINGLE ZONE, 2 DUAL-ZONE  
 WIRELESS POWER PACKS: 5 FOR LIGHTING  
 WIRELESS CEILING SENSORS: 5 MOTION SENSORS, 2 DAYLIGHT SENSORS  
 LINE VOLTAGE WALLBOX SENSORS: 15 SINGLE RELAY, 10 DUAL-RELAY
- WHERE EXISTING LINE VOLTAGE SWITCHES ARE TO BE REMOVED AND REPLACED WITH NEW LINE POWERED WIRELESS DIMMER SWITCH; NOTE THAT NEW DEVICE REQUIRES NEUTRAL CONDUCTOR. UTILIZE EXISTING NEUTRAL CONDUCTOR IF PRESENT. IF NOT PRESENT, AND EXISTING DEVICE IS WIRE WITH MC CABLE, CONTRACTOR SHALL RE-PURPOSE THE 'SWITCHLEG' WIRE AS A NEUTRAL. MARK PER NEC 200.6(E), AND MAKE-UP WIRING ABOVE THE CEILING AS REQUIRED. IF DEVICE IS CONNECTED WITH CONDUIT AND WIRE, CONTRACTOR SHALL REMOVE THE SWITCHLEG CONDUCTOR AND REPLACE WITH NEW NEUTRAL CONDUCTOR PER NEC 200.7(A). FOR BID PURPOSES, ASSUME THE LATTER.

## LIGHTING CONTROL SEQUENCE OF OPERATION

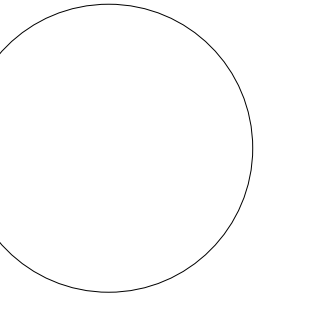
- LUMINAIRES SHALL BE GROUPED TOGETHER FOR SENSOR CONTROL IN EACH SPACE. COMBINATIONS OF LUMINAIRE-INTEGRATED AND STAND-ALONE SENSORS ARE PROVIDED.
- DURING EMERGENCY CONDITIONS, MOTION SENSOR AND USER CONTROLS SHALL BE DISABLED.
- PUBLIC ACCESS CORRIDORS AND OPEN STUDY AREAS:  
 SENSORS SHALL BE SET TO AUTOMATIC ON. SHOULD ANY SENSOR WITHIN THE CORRIDOR SENSE MOVEMENT, ALL CORRIDOR LIGHTING SHALL ACTIVATE TO 100%.  
 CORRIDOR TIME DELAY SHALL BE SET TO 10 MINUTES.  
 UNOCCUPIED SETTING AT 10% OUTPUT.
- RESTROOMS:  
 SENSORS SHALL BE SET TO AUTOMATIC ON. SHOULD ANY SENSOR WITHIN THE RESTROOM SENSE MOVEMENT, ALL RESTROOM LIGHTING SHALL ACTIVATE TO 100%.  
 RESTROOM TIME DELAY SHALL BE SET TO 20 MINUTES.  
 UNOCCUPIED SETTING AT 10% OUTPUT.
- CLASSROOMS:  
 SENSORS SHALL BE SET TO MANUAL ON, AUTOMATIC OFF. UPON ACTIVATION, CLASSROOM LIGHTING SHALL ACTIVATE TO 80%.  
 CLASSROOM TIME DELAY SHALL BE SET TO 20 MINUTES.  
 UNOCCUPIED SETTING AT FULL OFF.
- STAFF OFFICES, WORKROOMS, CORRIDORS, AND RECEPTION AREAS:  
 SENSORS SHALL BE SET TO MANUAL ON, AUTOMATIC OFF. UPON ACTIVATION, LIGHTING SHALL ACTIVATE TO 80%.  
 TIME DELAY SHALL BE SET TO 20 MINUTES.  
 UNOCCUPIED SETTING AT FULL OFF.
- OPEN OFFICES  
 SENSORS SHALL BE SET TO MANUAL ON, AUTOMATIC OFF. UPON ACTIVATION, LIGHTING SHALL ACTIVATE TO 80%.  
 TIME DELAY SHALL BE SET TO 20 MINUTES.  
 UNOCCUPIED SETTING AT 10% OUTPUT.



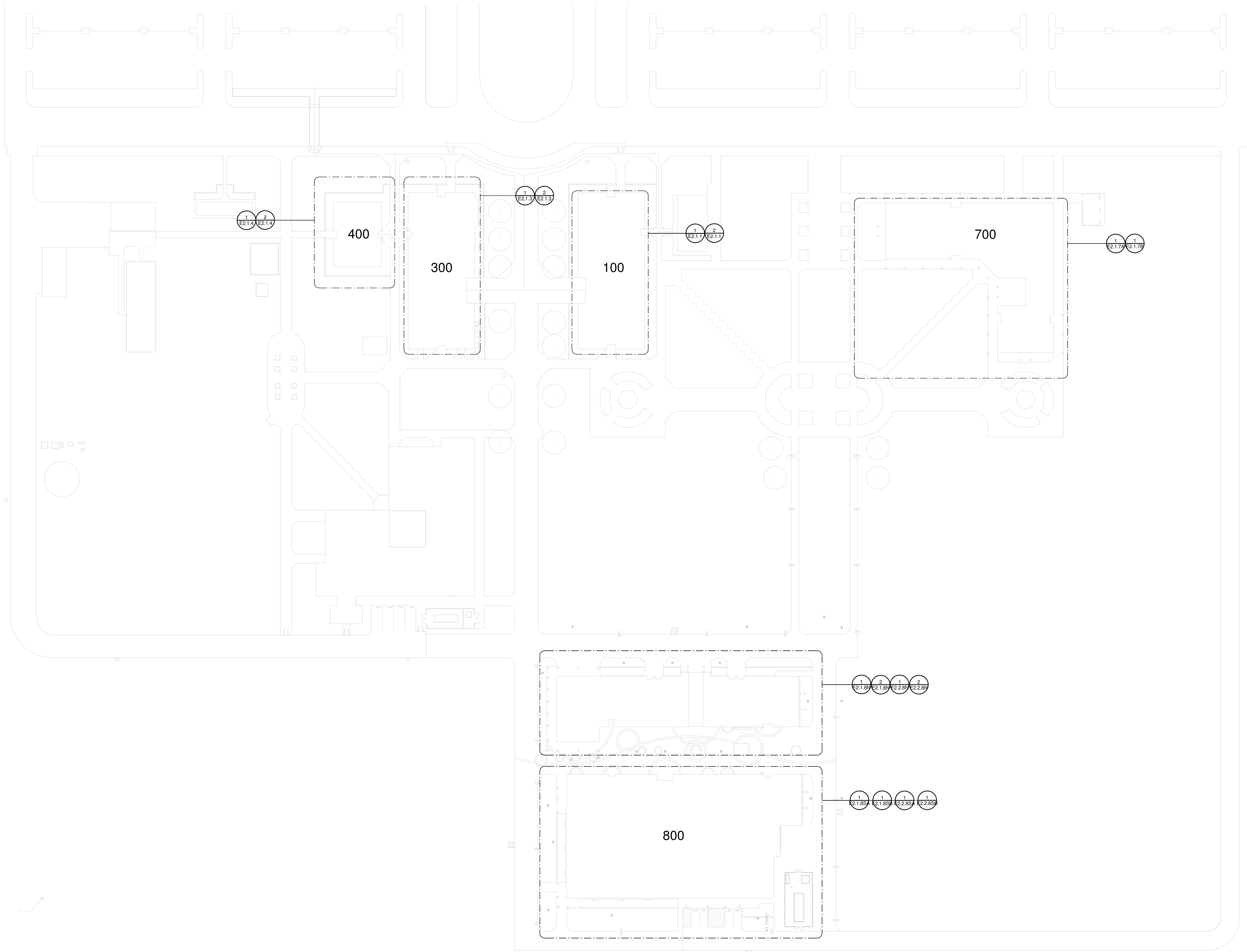
Woodland Community College

REVISIONS	
#	DESCRIPTION

DESIGNER: TEE  
 SCALE: NTS  
 DATE: 2024-02-29  
 TITLE:  
**LIGHTING CONTROLS**  
 DRAWING NO.  
**E0.03**



**Woodland Community College**



**1** **SITE PLAN**  
SCALE: 1" = 40'-0"

REVISIONS	
#	DESCRIPTION

DESIGNER: TEE  
SCALE: 1" = 40'-0"  
DATE: 2024-02-29  
TITLE: **SITE PLAN**  
DRAWING NO. **E1.01**

**GENERAL SHEET NOTES**

- A. WHERE NEW STAND-ALONE, DIGITAL 0-10V LIGHTING CONTROLS ARE PROVIDED, CONTRACTOR SHALL BYPASS ANY EXISTING TIME BASED LIGHTING CONTROLS, AND REMOVE EXISTING LIGHTING CONTROL DEVICES IN THE SPACE.
- B. EXISTING EXTERIOR LIGHTING CONTROLS ARE TO REMAIN AS CONNECTED. WHERE NEW EXTERIOR LIGHTING IS SHOWN (I.E. NOT REPLACING EXISTING LIGHTING) CONTRACTOR SHALL LOCATE EXISTING CONTROLLED EXTERIOR LIGHTING CIRCUIT AND EXTEND TO NEW LOCATION.

**BUILDING 100 SCOPE OF WORK**

- 1. ALL EXISTING FLUORESCENT, HID, AND LUMINAIRE ARE TO BE REPLACED WITH NEW LED LUMINAIRES, OR RETROFITTED WITH LED KIT. IN CASES WHERE EXISTING LIGHTING HAS ALREADY BEEN REPLACED WITH NEW LED LUMINAIRE, OR RETROFIT WITH LED IN AN APPROPRIATE MANNER, NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH NEW WORK.
- 2. EXISTING INTERIOR LIGHTING CONTROLS CONSISTS OF LINE VOLTAGE MANUAL SWITCHES, LINE VOLTAGE WALL MOUNTED OCCUPANCY SENSORS, AND CEILING MOUNTED OCCUPANCY SENSORS WITH POWER PACKS. THERE IS NO CENTRAL LIGHTING CONTROL SYSTEM CONTROLLING INTERIOR LIGHTING. TO THE BEST OF THE DESIGN TEAM'S KNOWLEDGE, CONTRACTOR TO VERIFY ON SITE AND REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
- 3. EXISTING EXTERIOR LIGHTING CONTROLS ARE TO REMAIN. LOCATION AND PART NUMBERS HAVE NOT BEEN VERIFIED; CONTRACTOR IS TO IDENTIFY ON SITE AND UPDATE RECORD DRAWINGS.

**REVISIONS**

NO.	DESCRIPTION	DATE

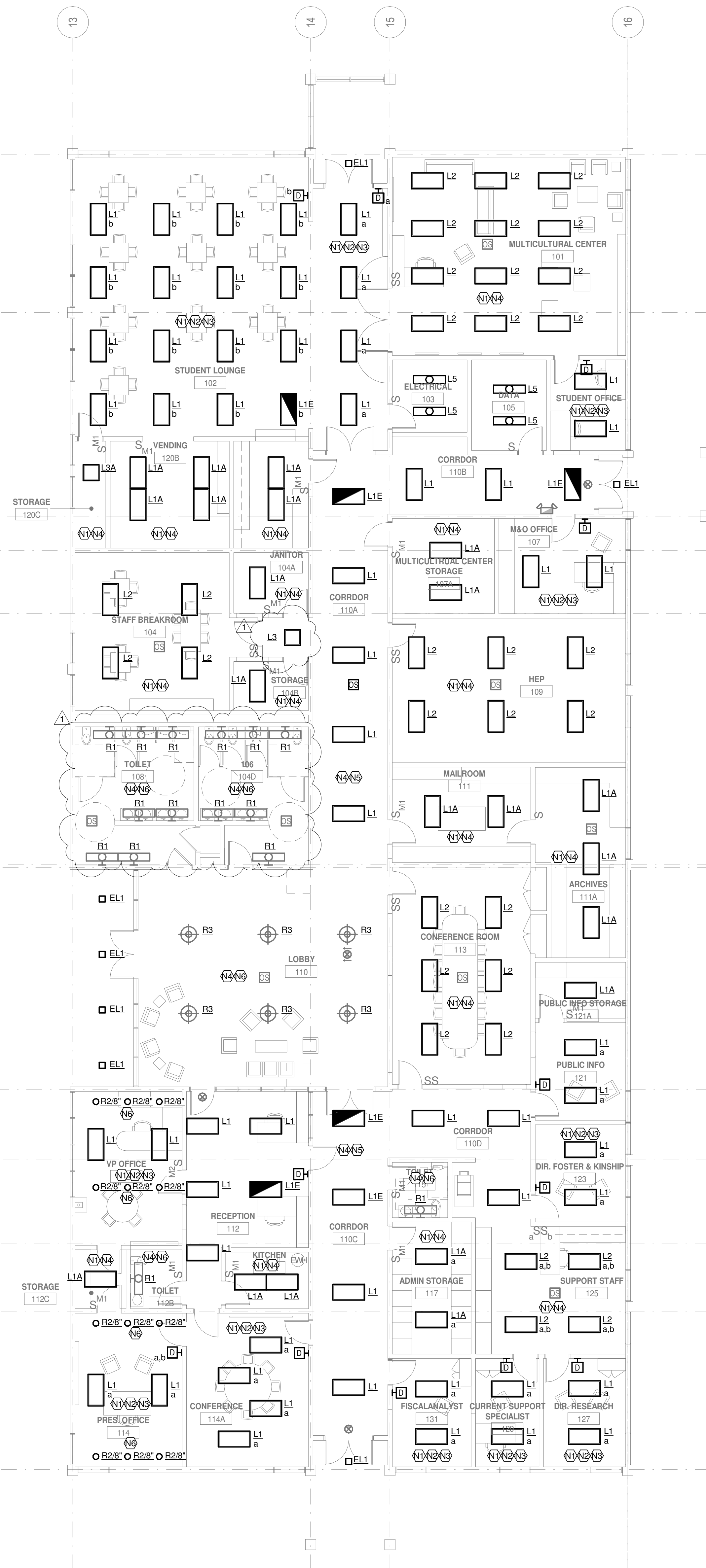
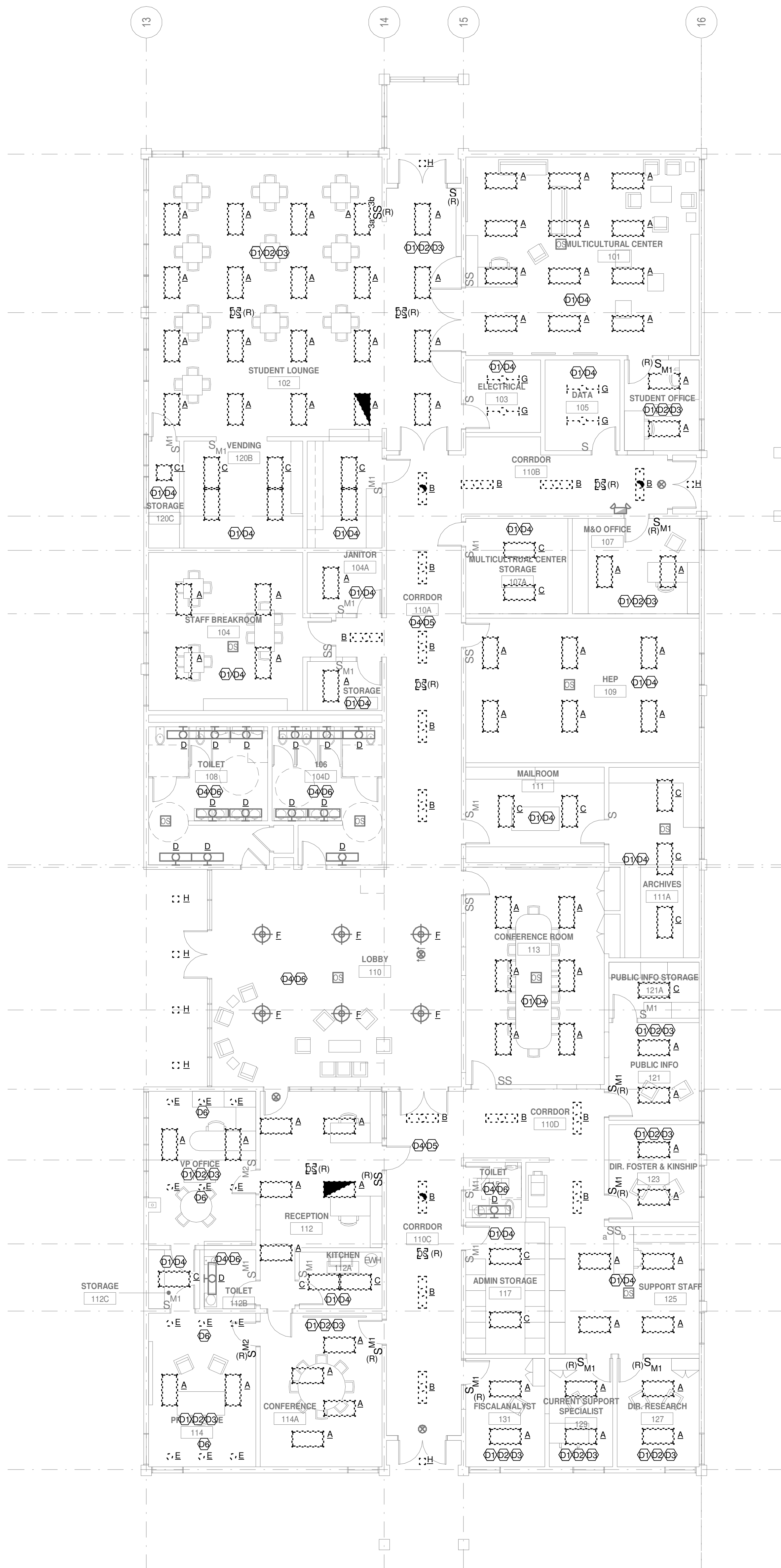
DESIGNER: TEE

SCALE: 1/8" = 1'-0"

DATE: 2024-02-29

TITLE:  
**LEVEL 1 LIGHTING PLAN - BUILDING 100**

DRAWING NO.  
**E2.1.1**

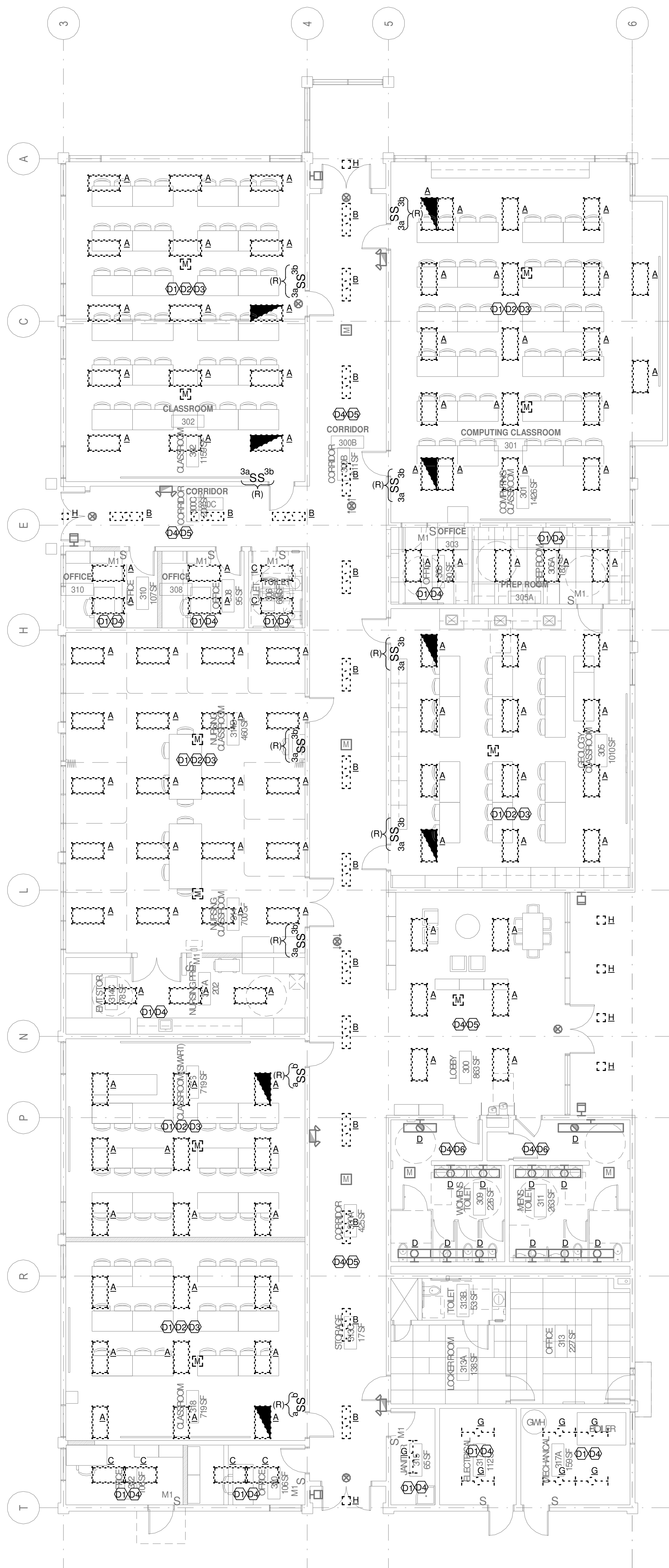


**1** LEVEL 1 LIGHTING PLAN - BUILDING 100 DEMO  
SCALE: 1/8" = 1'-0"

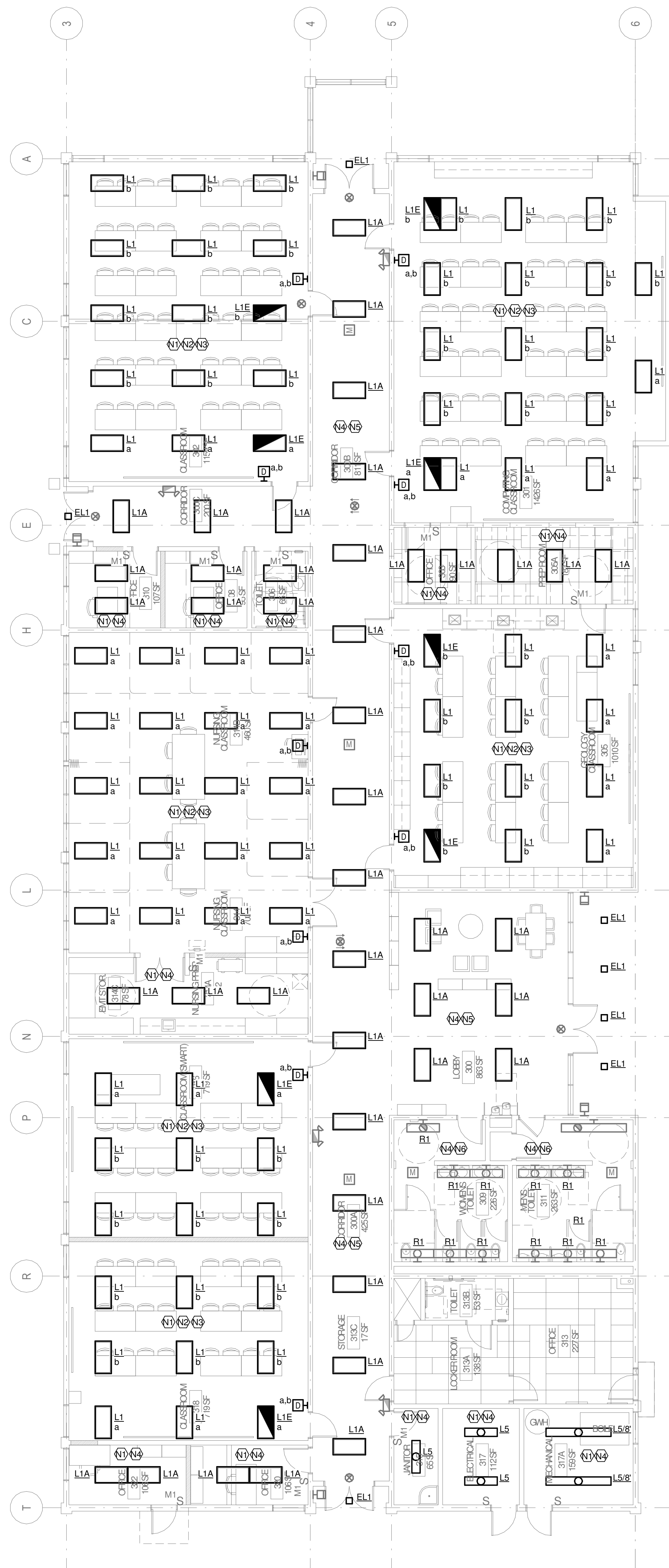
**2** LEVEL 1 LIGHTING PLAN - BUILDING 100 NEW  
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- A. WHERE NEW STAND-ALONE, DIGITAL 0-10V LIGHTING CONTROLS ARE PROVIDED, CONTRACTOR SHALL BYPASS ANY EXISTING TIME BASED LIGHTING CONTROLS, AND REMOVE EXISTING LIGHTING CONTROL DEVICES IN THE SPACE.
- B. EXISTING EXTERIOR LIGHTING CONTROLS ARE TO REMAIN AS CONNECTED. WHERE NEW EXTERIOR LIGHTING IS SHOWN (I.E. NOT REPLACING EXISTING LIGHTING) CONTRACTOR SHALL LOCATE EXISTING CONTROLLED EXTERIOR LIGHTING CIRCUIT AND EXTEND TO NEW LOCATION.



1 LIGHTING PLAN - BUILDING 300 DEMO  
SCALE: 1/8" = 1'-0"



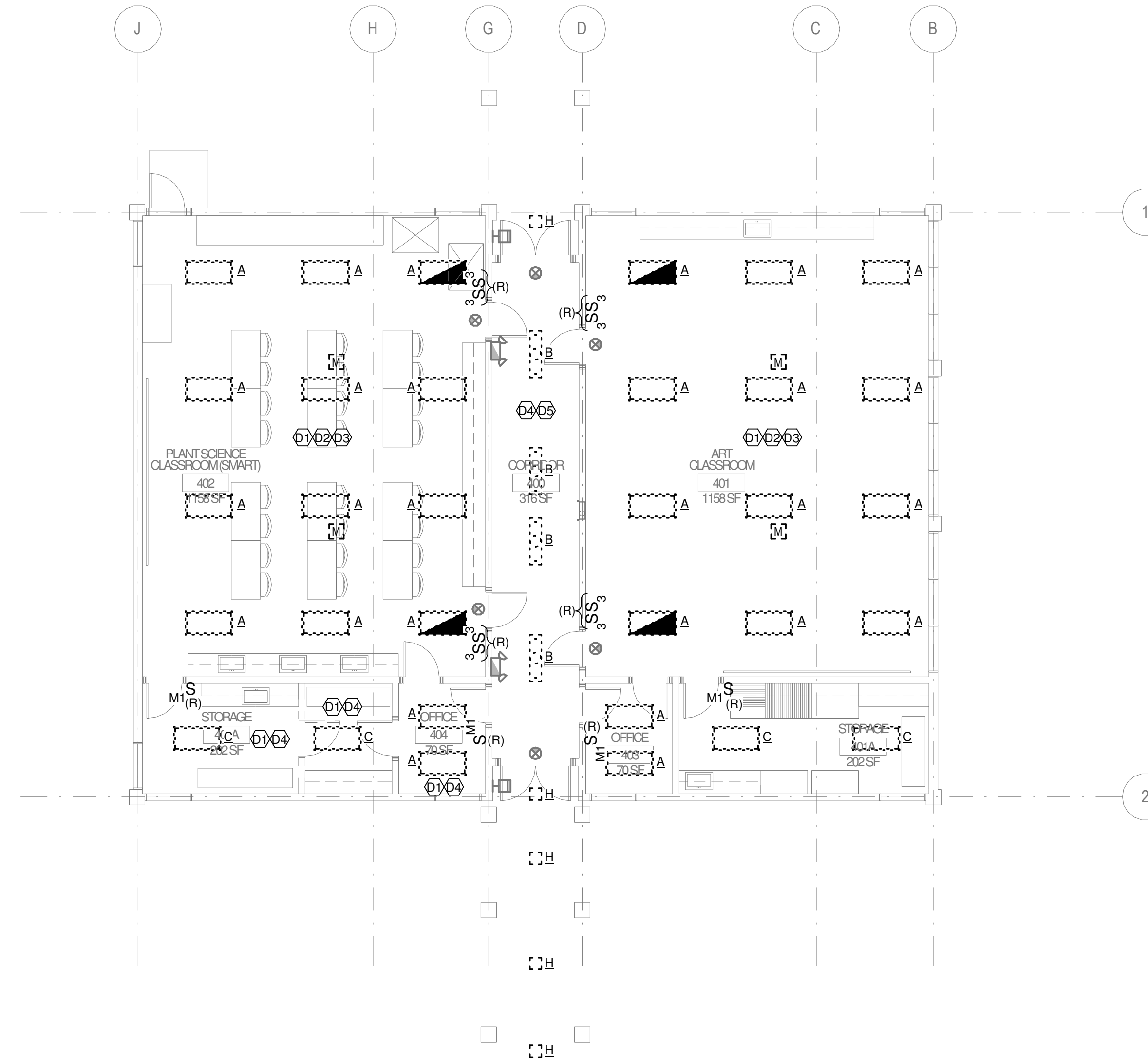
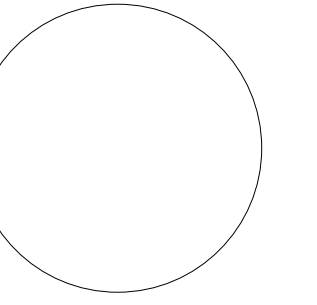
2 LIGHTING PLAN - BUILDING 300 NEW  
SCALE: 1/8" = 1'-0"

REVISIONS	
#	DESCRIPTION
DATE	

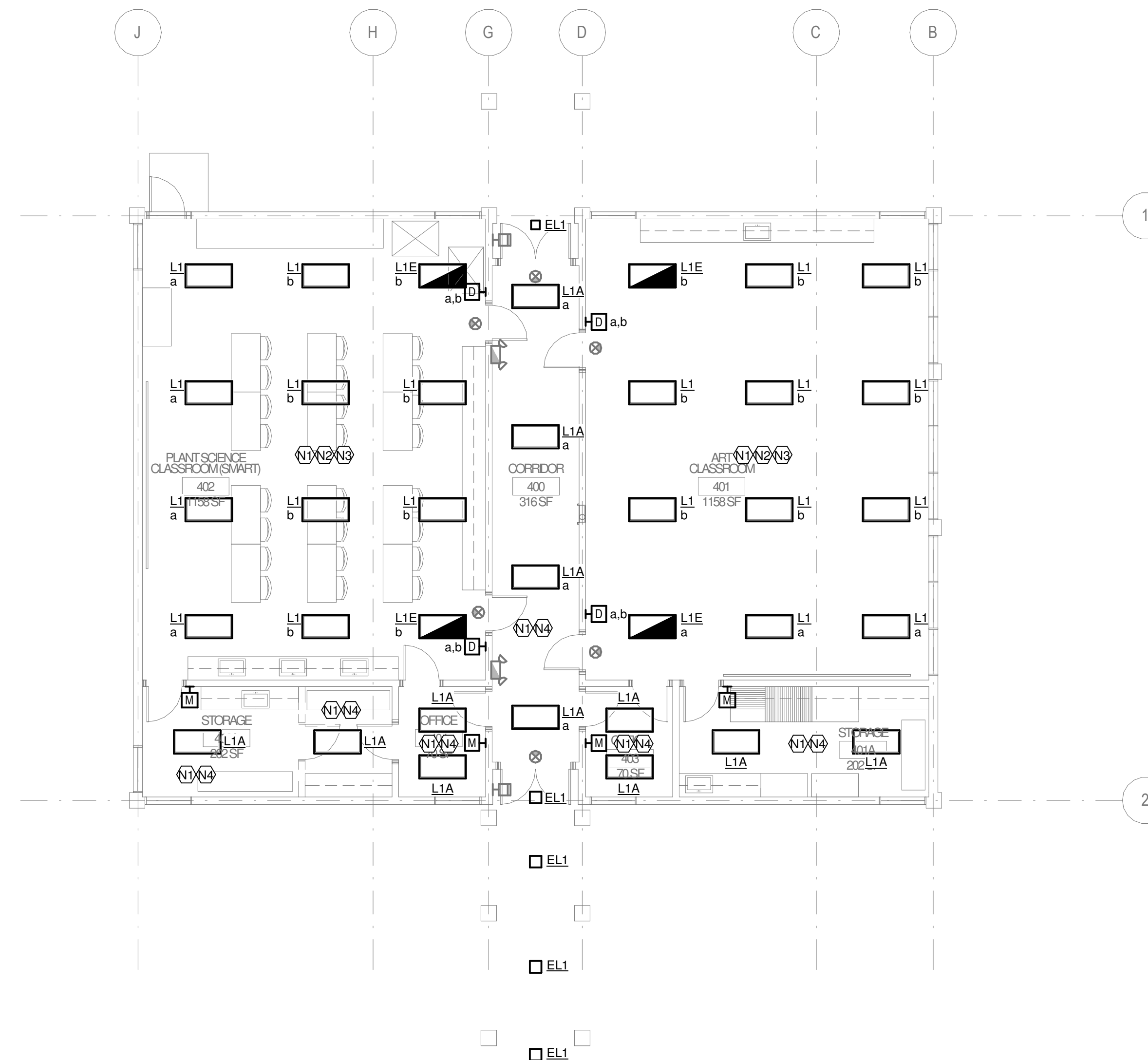
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SCALE: 1/8" = 1'-0"
DATE: 2024-02-29
TITLE:
<b>LEVEL 1 LIGHTING PLAN - BUILDING 300</b>
DRAWING NO.
<b>E2.1.3</b>

**GENERAL SHEET NOTES**

- A. WHERE NEW STAND-ALONE, DIGITAL 0-10V LIGHTING CONTROLS ARE PROVIDED, CONTRACTOR SHALL BYPASS ANY EXISTING TIME BASED LIGHTING CONTROLS, AND REMOVE EXISTING LIGHTING CONTROL DEVICES IN THE SPACE.
- B. EXISTING EXTERIOR LIGHTING CONTROLS ARE TO REMAIN AS CONNECTED. WHERE NEW EXTERIOR LIGHTING IS SHOWN (I.E. NOT REPLACING EXISTING LIGHTING) CONTRACTOR SHALL LOCATE EXISTING CONTROLLED EXTERIOR LIGHTING CIRCUIT AND EXTEND TO NEW LOCATION.



**1** LIGHTING PLAN - BUILDING 400 DEMO  
SCALE: 1/8" = 1'-0"



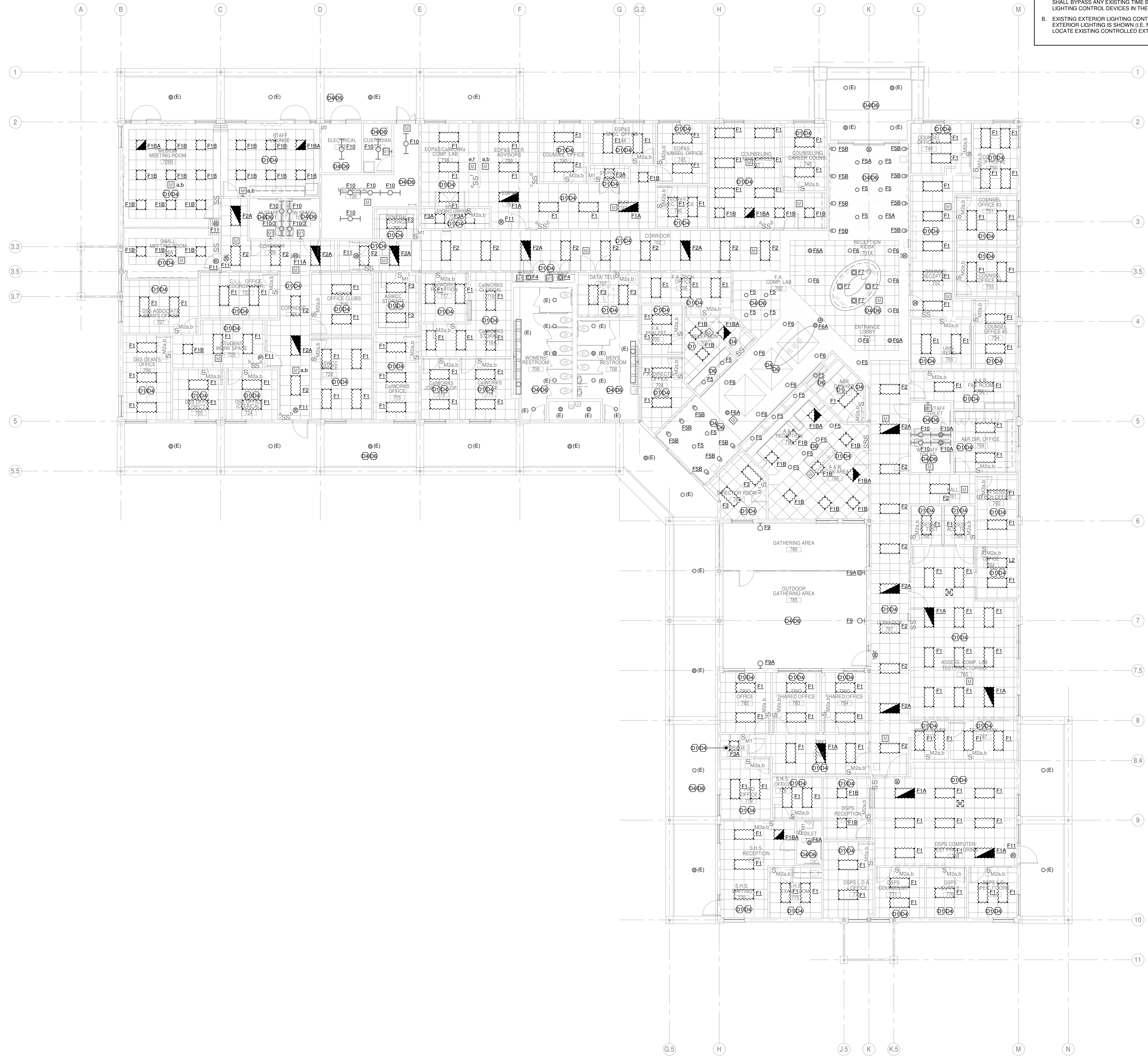
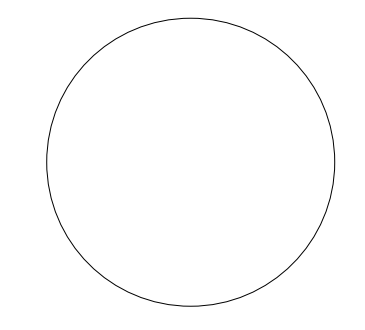
**2** LIGHTING PLAN - BUILDING 400 NEW  
SCALE: 1/8" = 1'-0"

REVISIONS	
#	DESCRIPTION

DESIGNER: TEE
SCALE: 1/8" = 1'-0"
DATE: 2024-02-29
TITLE: <b>LEVEL 1 LIGHTING PLAN - BUILDING 400</b>
DRAWING NO. <b>E2.1.4</b>

**GENERAL SHEET NOTES**

- A. WHERE NEW STAND-ALONE, DIGITAL 0-10V LIGHTING CONTROLS ARE PROVIDED, CONTRACTOR SHALL BYPASS ANY EXISTING TIME BASED LIGHTING CONTROLS, AND REMOVE EXISTING LIGHTING CONTROL DEVICES IN THE SPACE.
- B. EXISTING EXTERIOR LIGHTING CONTROLS ARE TO REMAIN AS CONNECTED, WHERE NEW EXTERIOR LIGHTING IS SHOWN (I.E. NOT REPLACING EXISTING LIGHTING) CONTRACTOR SHALL LOCATE EXISTING CONTROLLED EXTERIOR LIGHTING CIRCUIT AND EXTEND TO NEW LOCATION.



**REVISIONS**

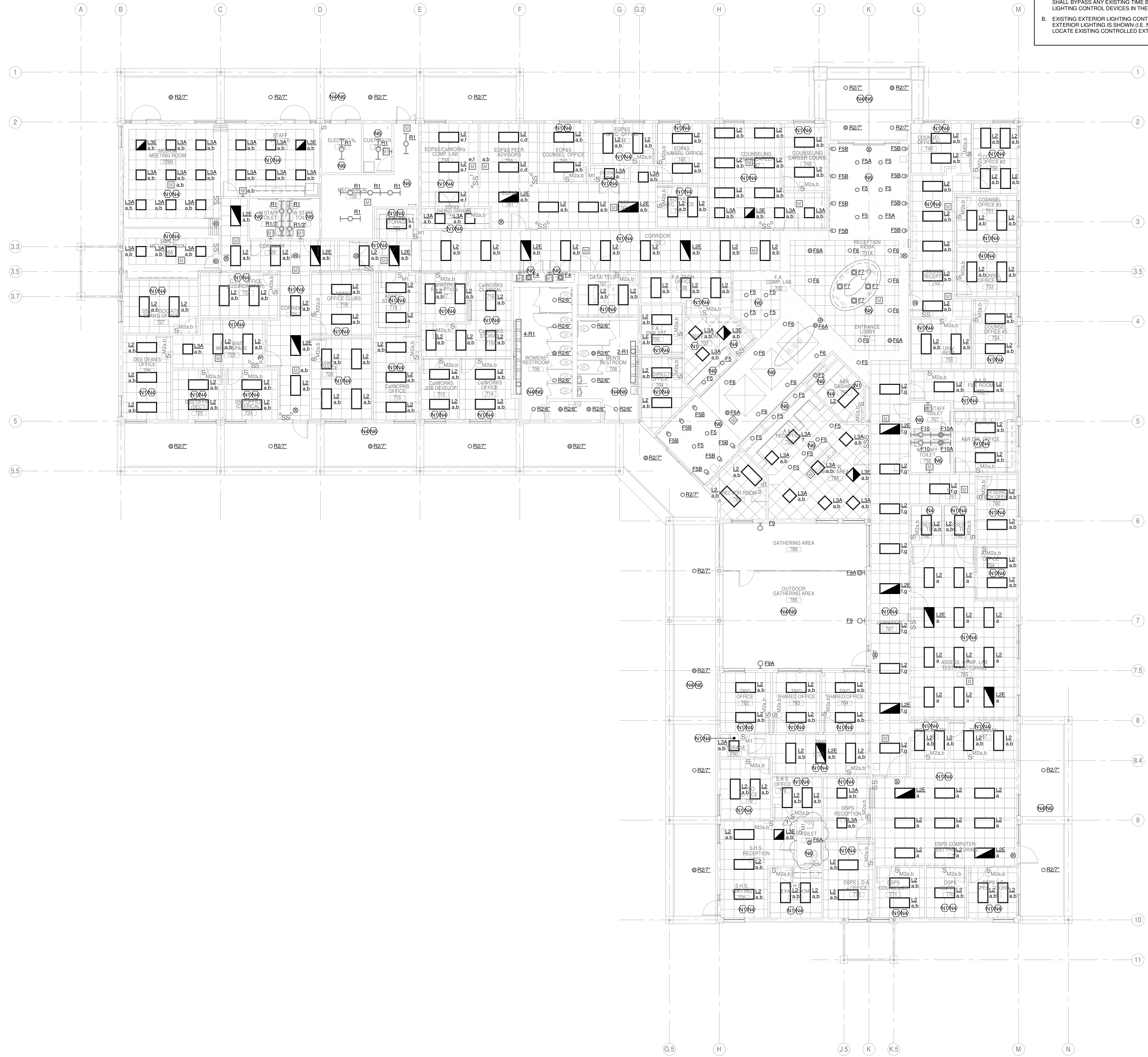
#	DESCRIPTION	DATE

DESIGNER: TEE  
 SCALE: 1/8" = 1'-0"  
 DATE: 2024-02-29  
 TITLE:  
**EXISTING LEVEL 1 LIGHTING PLAN - BUILDING 700**  
 DRAWING NO.  
**E2.1.7A**



### GENERAL SHEET NOTES

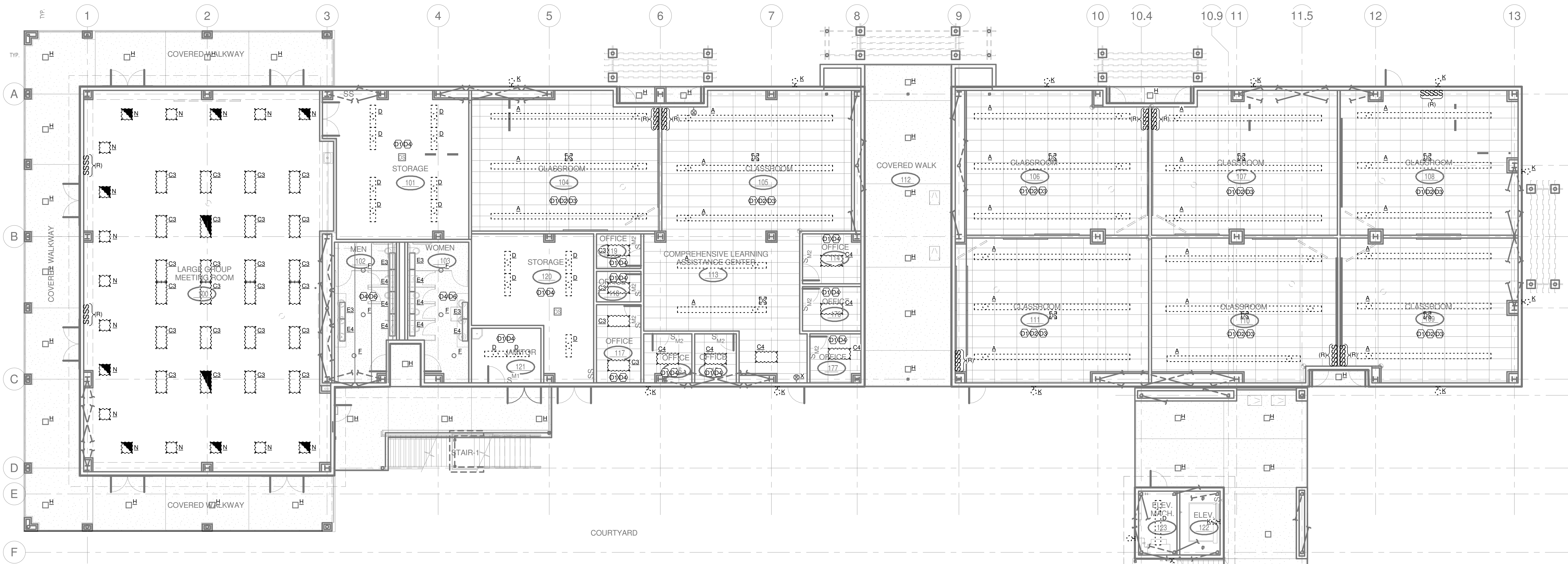
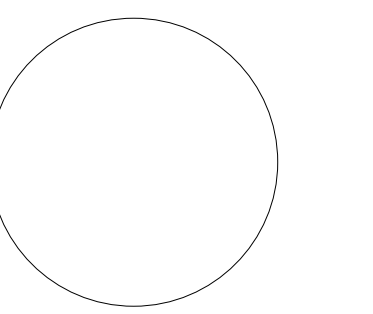
- A. WHERE NEW STAND-ALONE, DIGITAL 0-10V LIGHTING CONTROLS ARE PROVIDED, CONTRACTOR SHALL BYPASS ANY EXISTING TIME BASED LIGHTING CONTROLS, AND REMOVE EXISTING LIGHTING CONTROL DEVICES IN THE SPACE.
- B. EXISTING EXTERIOR LIGHTING CONTROLS ARE TO REMAIN AS CONNECTED. WHERE NEW EXTERIOR LIGHTING IS SHOWN (I.E. NOT REPLACING EXISTING LIGHTING) CONTRACTOR SHALL LOCATE EXISTING CONTROLLED EXTERIOR LIGHTING CIRCUIT AND EXTEND TO NEW LOCATION.



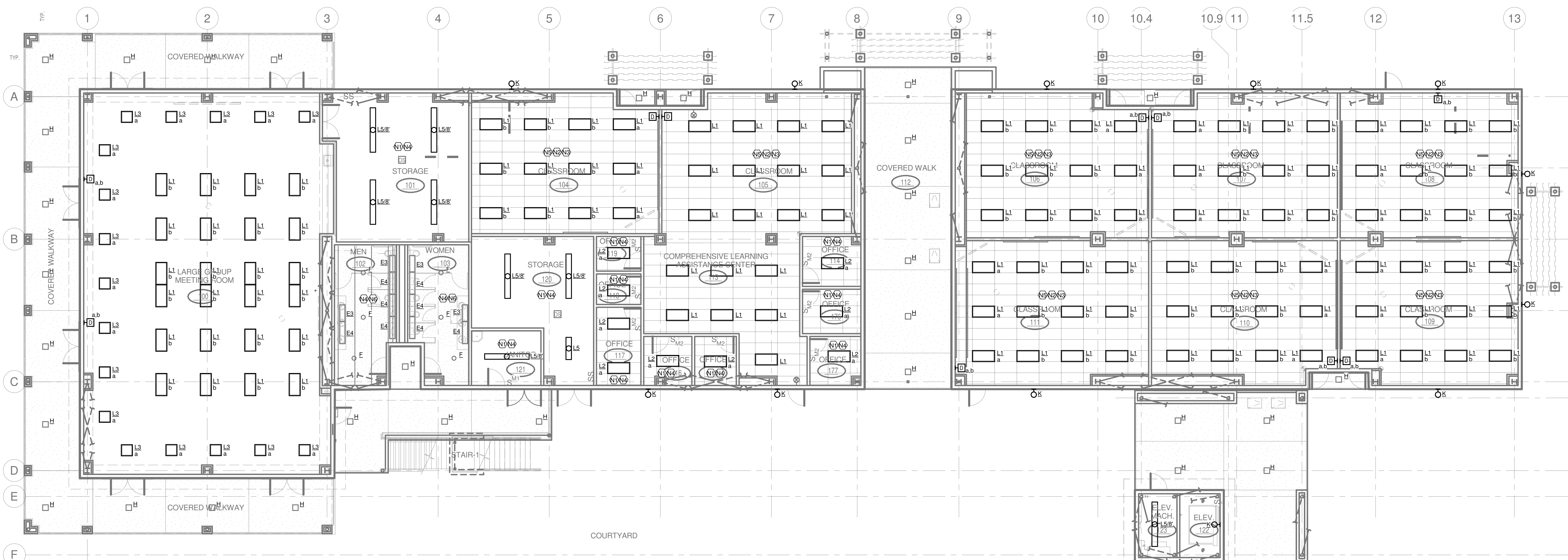
1 LEVEL 01 - BUILDING 700 NEW  
SCALE: 1/8" = 1'-0"

REVISIONS	

DESIGNER:TEE	04/20/24
SCALE: 1/8" = 1'-0"	DATE
DATE:2024-02-29	
TITLE:	
NEW LEVEL 1 LIGHTING PLAN - BUILDING 700	
DRAWING NO.	
E2.1.7B	



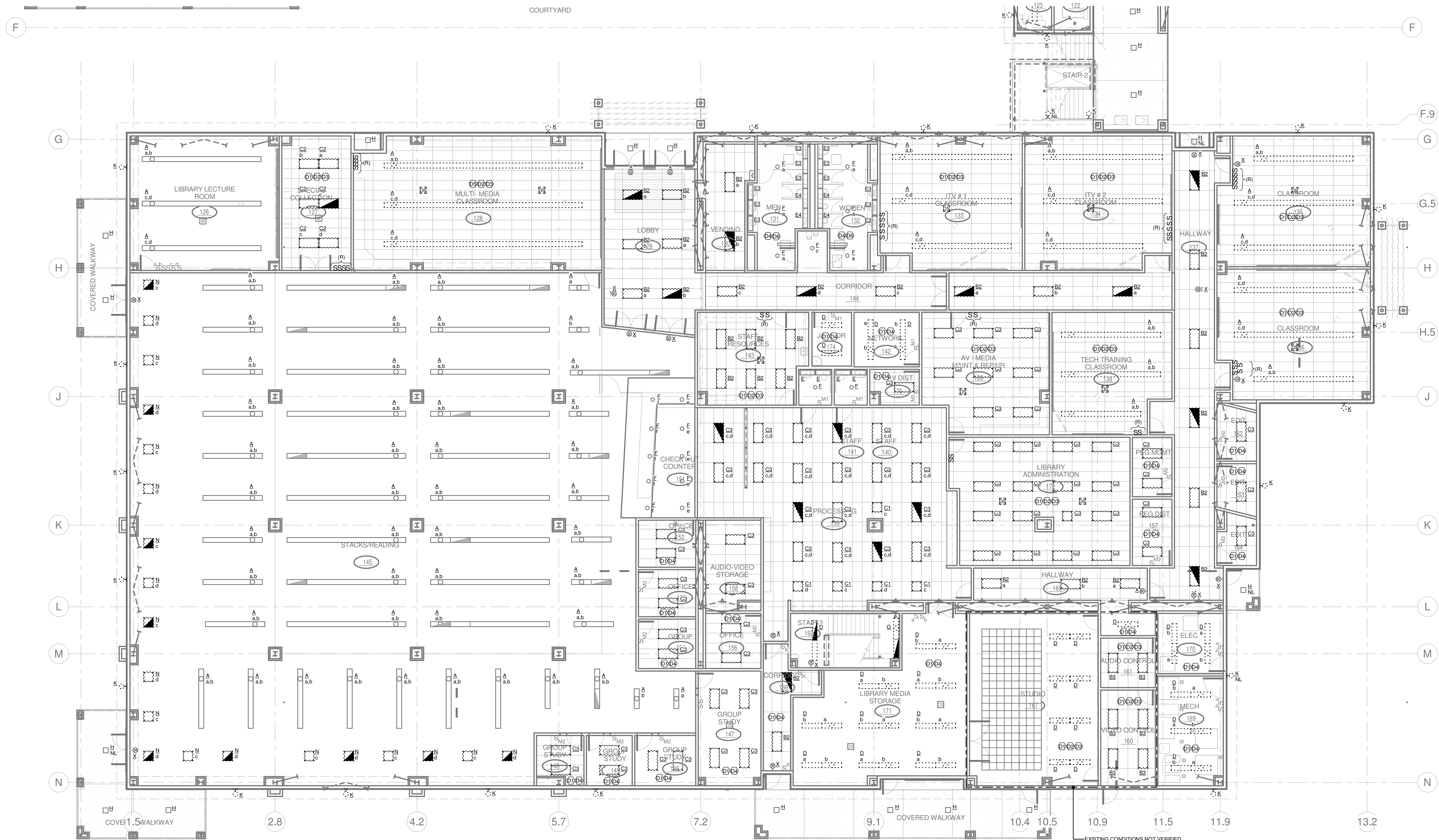
**1 LEVEL 01 - BUILDING 800 NORTH DEMO**  
 SCALE: 1/8" = 1'-0"



**2 LEVEL 01 - BUILDING 800 NORTH NEW**  
 SCALE: 1/8" = 1'-0"

REVISIONS	
#	DESCRIPTION

DESIGNER: TEE
SCALE: 1/8" = 1'-0"
DATE: 2024-02-29
TITLE: <b>LEVEL 1 LIGHTING PLAN - BUILDING 800 NORTH</b>
DRAWING NO. <b>E2.1.8N</b>



**1 LEVEL 01 - BUILDING 800 SOUTH DEMO**  
 SCALE: 1/8" = 1'-0"

REVISIONS	
#	DESCRIPTION

DESIGNER: TEE  
 SCALE: 1/8" = 1'-0"  
 DATE: 2024-02-29  
 TITLE:  
**EXISTING LEVEL 1  
 LIGHTING PLAN -  
 BUILDING 800  
 SOUTH**  
 DRAWING NO.  
**E2.1.8SA**

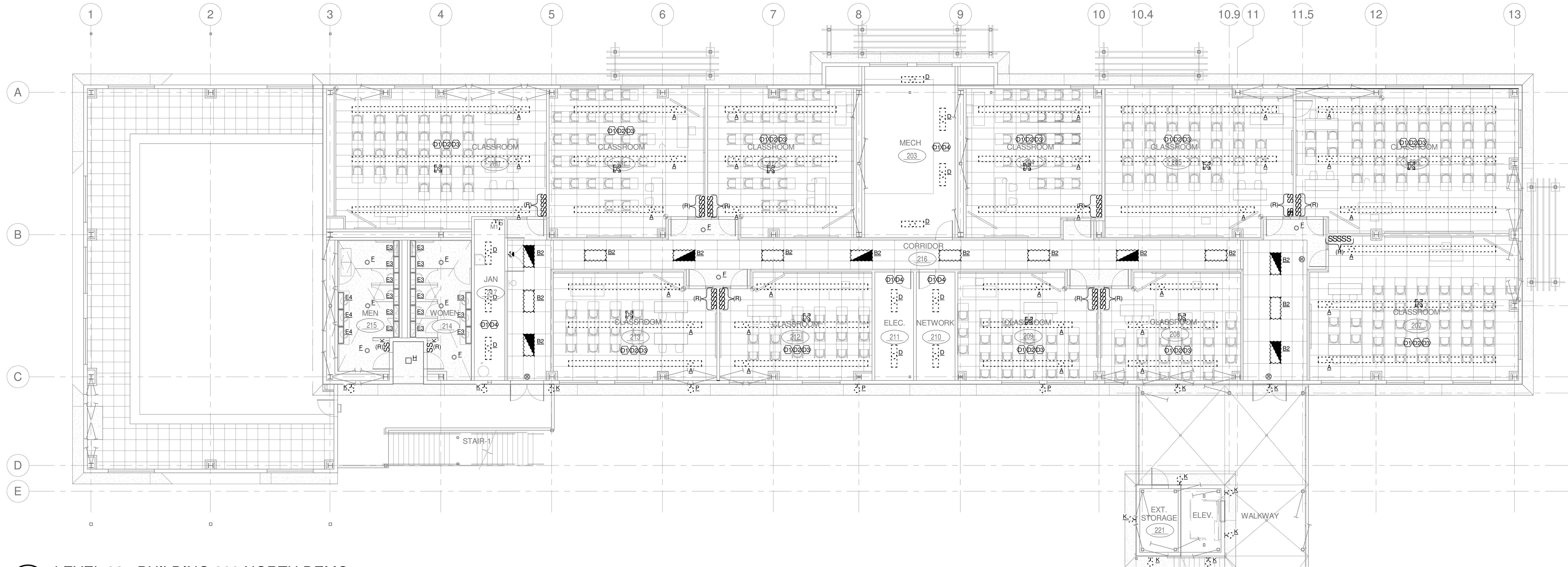
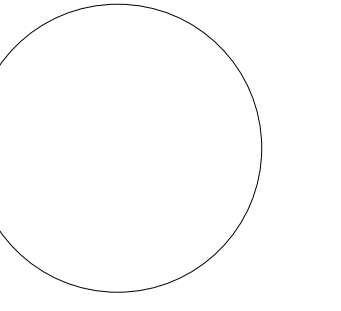


EXISTING CONDITIONS NOT VERIFIED  
 PRIOR TO ISSUANCE OF BID  
 DOCUMENT. CONTRACTOR TO  
 VERIFY ON SITE AND REPORT  
 DISCREPANCIES TO THE OWNER'S  
 REPRESENTATIVE.

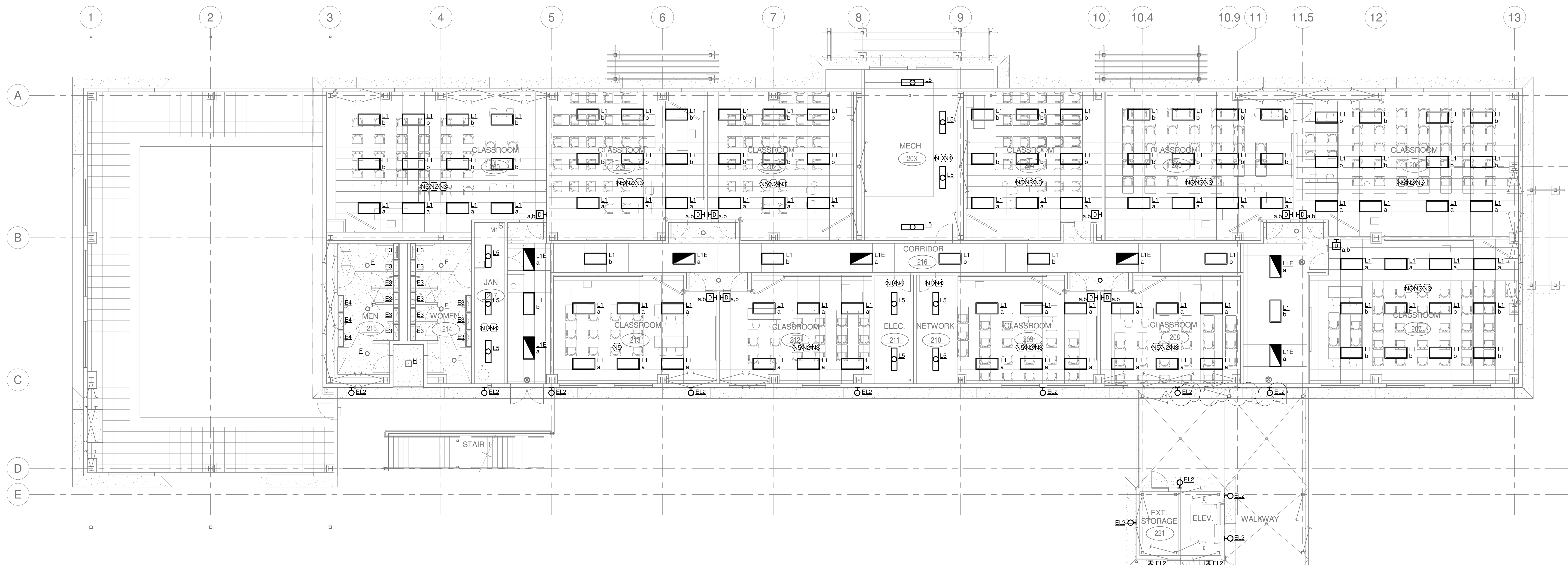
**1 LEVEL 01 - BUILDING 800 SOUTH NEW**  
 SCALE: 1/8" = 1'-0"

REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNER: TEE  
 SCALE: 1/8" = 1'-0"  
 DATE: 2024-02-29  
 TITLE:  
**NEW LEVEL 1 LIGHTING PLAN - BUILDING 800 SOUTH**  
 DRAWING NO.  
**E2.1.8SB**



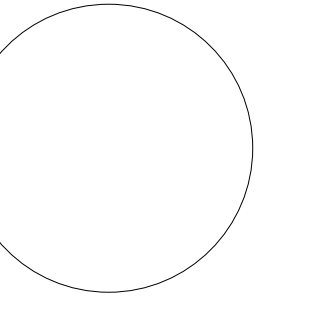
**1** LEVEL 02 - BUILDING 800 NORTH DEMO  
 SCALE: 1/8" = 1'-0"



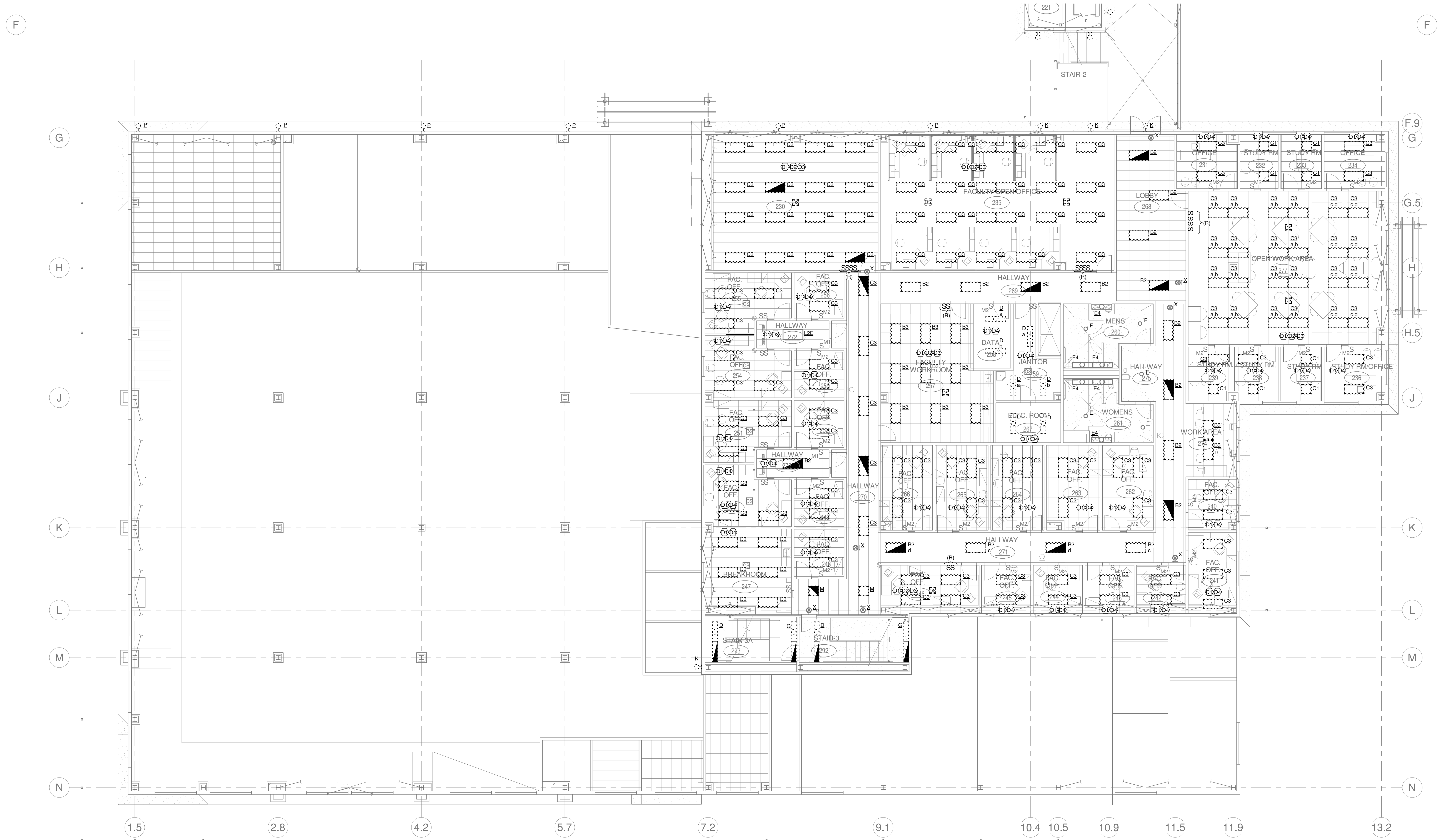
**2** LEVEL 02 - BUILDING 800 NORTH NEW  
 SCALE: 1/8" = 1'-0"

REVISIONS		
#	DESCRIPTION	DATE

DESIGNER: TEE  
 SCALE: 1/8" = 1'-0"  
 DATE: 2024-02-29  
 TITLE:  
**LEVEL 2 LIGHTING PLAN - BUILDING 800 NORTH**  
 DRAWING NO.  
**E2.2.8N**



**Woodland Community College**



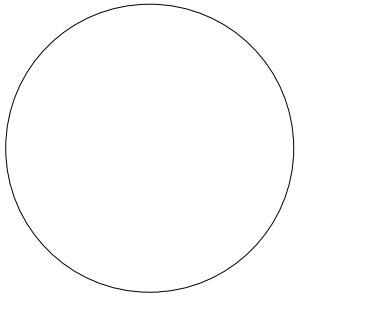
**1 LEVEL 02 - BUILDING 800 SOUTH DEMO**  
 SCALE: 1/8" = 1'-0"

REVISIONS	
#	DESCRIPTION

DESIGNER: TEE  
 SCALE: 1/8" = 1'-0"  
 DATE: 2024-02-29  
 TITLE:  
**EXISTING LEVEL 2  
 LIGHTING PLAN -  
 BUILDING 800  
 SOUTH**  
 DRAWING NO.  
**E2.2.8SA**

**GENERAL SHEET NOTES**

- A. REFER TO SHEET E0.02 FOR PROJECT GENERAL NOTES PERTAINING TO THIS SHEET.
- B. REFER TO SHEET E0.02 FOR NEW AND EXISTING LUMINAIRE SCHEDULES FOR ADDITIONAL REQUIREMENTS.



**1** LEVEL 02 - BUILDING 800 SOUTH  
 SCALE: 1/8" = 1'-0"

REVISIONS	

DESIGNER: TEE	04/20/24
SCALE: 1/8" = 1'-0"	DATE
DATE: 2024-02-29	
TITLE:	
<b>NEW LEVEL 2 LIGHTING PLAN - BUILDING 800 SOUTH</b>	
DRAWING NO.	
<b>E2.2.8SB</b>	