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IEERING CIATES, LLC	

(803) 528-1437 Joe.Land.LEA@sc.rr.com

USC-2014-10

1 of 4 262 SANDHURST ROAD, SUITE 101 COLUMBIA, SOUTH CAROLINA SHEET IN SET:

MOUNTING	VOLTS	LIGHT SOURCE	
CEILING FLANGE RECESSED	120/277V UNIVERS.	L.E.D 4000 lumens, 4000K	
CEILING GRID RECESSED	120/277V UNIVERS.	L.E.D 4000 lumens, 4000K	
CEILING GRID RECESSED	120/277V UNIVERS.	L.E.D 4000 lumens, 4000K	
WALL MOUNT ABOVE VANITY	120/277V UNIVERS.	L.E.D 4200 lumens, 4000K	
CEILING RECESSED	120/277V UNIVERS.	L.E.D 6000 lumens, 4000k	
CEILING RECESSED	120/277V UNIVERS.	L.E.D 6000 lumens, 4000k	
WALL SURFACE	120/277V UNIVERS.	L.E.D 5900 lumens, 4000K	
CEILING OR WALL MOUNT	120/277V UNIVERS.	L.E.D.	
WALL	120/277V	L.E.D.	

LIGHTING FIXTURE SCHEDULE

ARRAYS AND DRIVER.

ZR24-40L-40K-10V

ARRAYS AND DRIVER.

TA-PEN-1-RC

TA-PEN-2-RC

LW-B06-4K-UN-WT-PC-EM

ZR24-40L-40K-10V-EB14

MODEL NUMBER

with 10-YEAR WARRANTY ON L.E.D.

with 10-YEAR WARRANTY ON L.E.D.

with 10-YEAR WARRANTY ON L.E.D.

5029-49-E37LED-CH-WA-40K

LRD3-10-60-9340-W-RM-FW with 5-YEAR WARRANTY ON L.E.D.

with 5-YEAR WARRANTY ON L.E.D.

LRD3-10-60-9340-W-RM-FW-EBO1

with 5-YEAR WARRANTY ON L.E.D.

ZR24-40L-40K-10V-EB14-DGA-24WHT

OPTICAL ELEMENT | MOUNTING | VOLTS

INDIRECT

w/CENTER

BASKET

DIRECT/

INDIRECT

w/CENTER

BASKET

DIRECT/

INDIRECT

w/CENTER

WHITE

ACRYLIC

SEMI

SPECILAR

SEMI

SPECULAR

THROW

OPTICS

EDGE-LIT

ACRYLIC

PANEL

EDGE-LIT

PANEL

ACRYLIC

BASKET

MOUNT

UNIVERS.

|120/277V | L.E.D.

MANUFACTURER

BROWNLEE

LUMENOPTIX

LUMENOPTIX

EMERGI-LITE

SYMBOL

 \boxtimes

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TYPE

DE

B TROFFER

DESCRIPTION

MINUTE BATTERY BACKUP SYSTEM.

2'x4' DIRECT/INDIRECT L.E.D. GRID | CREE

2'x4' DIRECT/INDIRECT L.E.D. GRID | CREE

2'x4' DIRECT/INDIRECT L.E.D.

FOR HARD CEILING AND A 90

AE TROFFER WITH FLANGE MOUNT

BE TROFFER AND A 90 MINUTE

BATTERY BACKUP SYSTEM.

4' L.E.D. VANITY WALL BRACKET

FIXTURE, SEMI-CIRCULAR, PEARL

10" L.E.D. RECESSED DOWNLIGHT

10" L.E.D. RECESSED DOWNLIGHT

90-MINUTE BATTERY PACK AND A

EXTERIOR L.E.D WALL FIXTURE

WITH A COLD-WEATHER 90-MINUTE

BATTERY PACK AND A PHOTOCELL.

FACE, UNIVERSAL MOUNTING WITH

A 90 MINUTE BATTERY BACKUP

EDGE-LIT L.E.D. EXIT SIGN,

MOUNTING WITH A 90 MINUTE

DOUBLE FACE, UNIVERSAL

BATTERY BACKUP SYSTEM.

SYSTEM.

EDGE-LIT L.E.D. EXIT SIGN, SINGLE | EMERGI-LITE

WITH DAMP LOCATION LISTING.

WITH COLD-WEATHER RATED

DAMP LOCATION LISTING.

ENDCAPS WITH CHROME TRIM.

GENERAL CONSTRUCTION NOTES

1. PROVIDE ALL WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

INTERNATIONAL BUILDING CODE

2012 EDITION

NFPA 70 - NATIONAL ELECTRICAL CODE

2011 EDITION

- 2. PROVIDE RACEWAY AND WIRING TO NEW LIGHTING FIXTURES AND EXIT SIGNS IN LOCATIONS WHERE AN EXISTING FIXTURE OR SIGN DOES NOT CURRENTLY EXIST. PROVIDE ALL WORK IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE. CONTRACTOR MAY RE-USE EXISTING RACEWAYS AND WIRING WHERE PRACTICAL.
- 3. ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS SHALL BE 2-HOUR FIRESTOPPED - HILTI OR EQUAL.
- 4. RACEWAYS SHALL BE 3/4" EMT WITH COMPRESSION TYPE FITTINGS UNLESS NOTED OR DETAILED OTHERWISE. PROVIDE FIXTURE WHIPS THAT COMPLY WITH THE NATIONAL ELECTRICAL CODE.
- 5. JUNCTION BOXES SHALL BE STEEL TYPE WITH SCREW COVER, SIZED AND SUPPORTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE JUNCTION BOXES AS REQUIRED FOR POWER WIRING ADDITIONS AND RENOVATIONS.
- 6. INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL MEMBERS, OR OTHER SYSTEMS.
- 7. PROVIDE SEISMIC WIRE SUPPORTS FOR ALL NEW LIGHTING FIXTURES AND EXIT SIGNS IN LOCATIONS WHERE AN EXISTING FIXTURE OR SIGN DOES NOT CURRENTLY EXIST. TROFFER FIXTURES SHALL BE SUPPORTED WITH TWO WIRES. EXIT SIGNS SHALL BE SUPPORTED WITH ONE WIRE. RECONNECT EXISTING WIRE SUPPORTS TO NEW FIXTURES AND SIGNS WHERE APPLICABLE.
- 8. THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS BEFORE PLACING IN OPERATION. RESTORE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION. THE CONTRACTOR SHALL INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ALL FIXTURES AND SYSTEMS. FURNISH 3 SETS OF OPERATION AND MAINTENANCE MANUALS TO THE OWNER FOR THE INSTALLED LIGHTING SYSTEM.
- 9. THE CONTRACTOR SHALL GUARANTEE THE WORK INSTALLED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE. DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE SHALL BE REMEDIED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER WITHOUT COST TO THE OWNER. SEE SPECIAL LIGHTING WARRANTY REQUIREMENTS IN LIGHTING FIXTURE SCHEDULE.
- 10. ALL FIXTURES AND ELECTRICAL MATERIALS SHALL BE U.L. TESTED & LISTED OR BE TESTED & LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- 11. CUTTING, DRILLING, AND PATCHING: PROVIDE CHASES, SLOTS, AND OPENINGS IN EXISTING BUILDING COMPONENTS TO ALLOW FOR ELECTRICAL INSTALLATIONS. PERFORM CUTTING, DRILLING, FITTING, AND PATCHING REQUIRED TO:
- A) INSTALL EQUIPMENT, MATERIALS, AND RACEWAYS IN EXISTING STRUCTURES.
- B) REMOVE AND REPLACE DEFECTIVE WORK THAT DOES NOT CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- C) UPON WRITTEN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER, UNCOVER AND RESTORE WORK TO PROVIDE FOR ARCHITECT/ENGINEER OBSERVATION OF CONCEALED WORK.

PROTECT EXISTING STRUCTURES, FURNISHINGS, FINISHES, MECHANICAL SYSTEMS, AND ELECTRICAL SYSTEMS WHILE PERFORMING CUTTING, DRILLING, FITTING, AND

PATCH EXISTING SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS THAT MATCH EXISTING MATERIALS. PATCHING SHALL BE PERFORMED BY EXPERIENCED INSTALLERS.

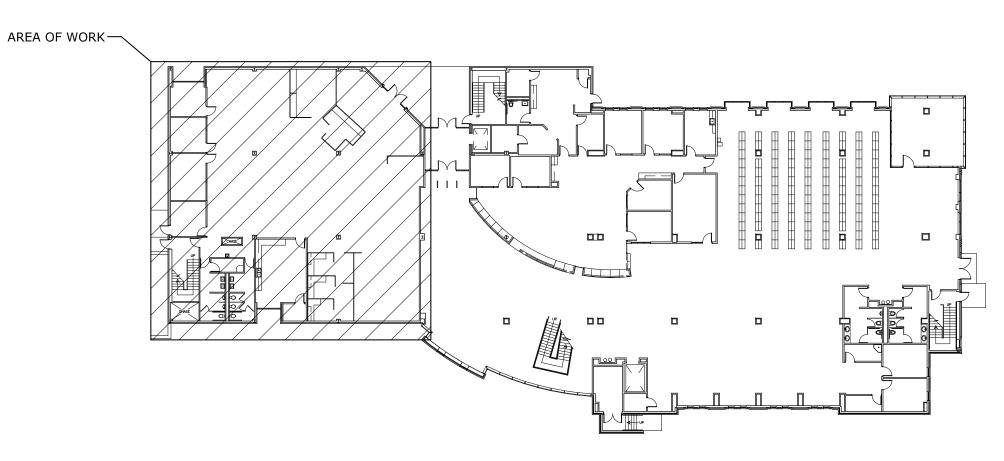
GENERAL DEMOLITION NOTES

- THERE ARE EXISTING LIGHTING FIXTURES AND EXIT SIGNS CURRENTLY INSTALLED WHERE NEW FIXTURES AND SIGNS ARE SHOWN EXCEPT WHERE NOTED. REMOVE AND LEGALLY DISPOSE OF ALL EXISTING LIGHTING FIXTURES, EXIT SIGNS, AND ASSOCIATED BALLASTS AND LAMPS.
- THE CONTRACTOR SHALL VISIT THE SITE/BUILDING TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND SHALL INCLUDE ALL WORK REQUIRED FOR COMPLETE DEMOLITION IN HIS BID.

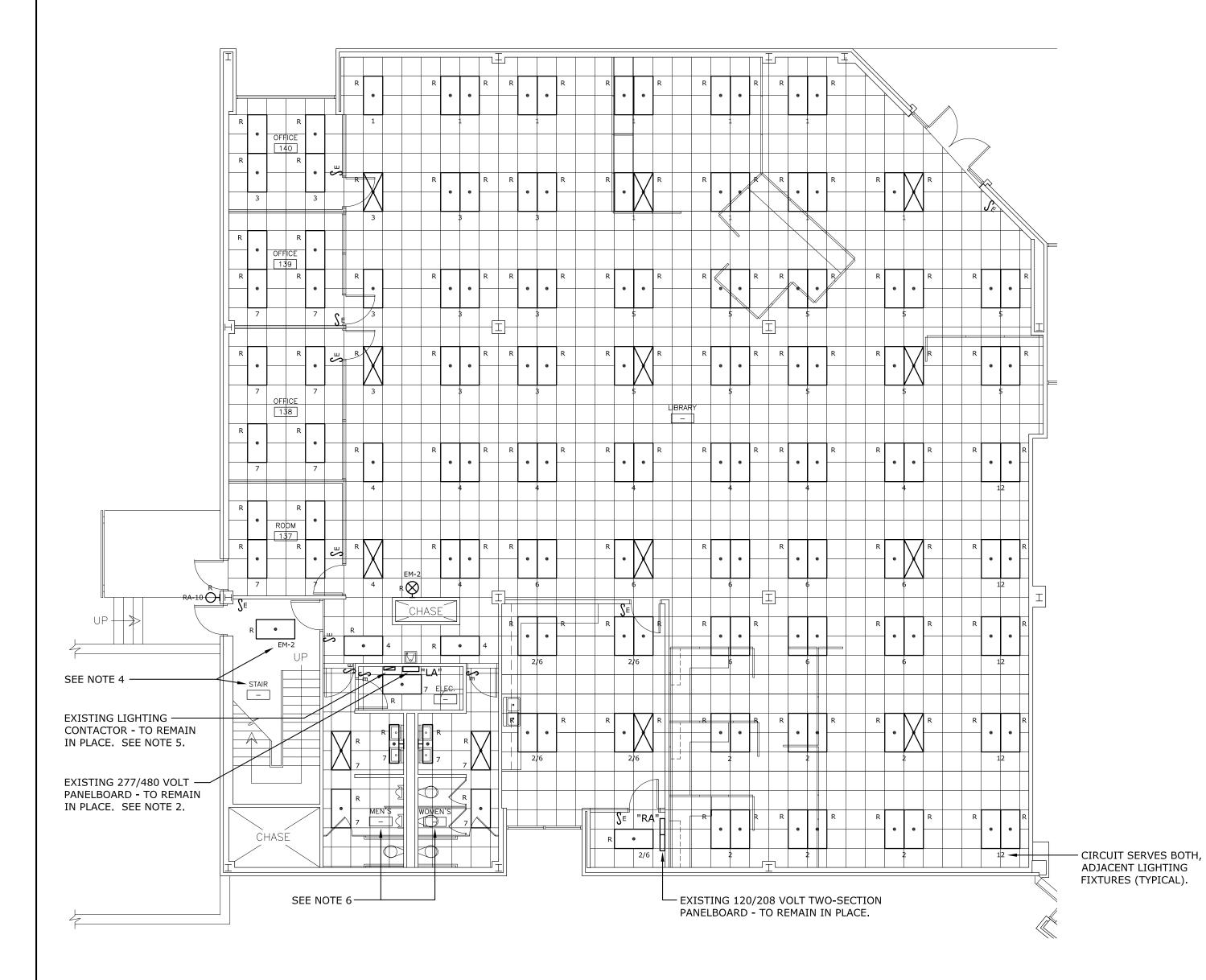
ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	
A • 14	LIGHTING FIXTURE; TYPE AND CIRCUIT NUMBER AS INDICATED. SEE THE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL SYMBOLS AND TYPES.	
⊗ 🏖	SINGLE OR DOUBLE FACE EXIT SIGN, CEILING MOUNTED. PROVIDE DIRECTIONAL ARROWS/CHEVRONS AS INDICATED ON PLAN.	
⊦⊗ ⊦	SINGLE OR DOUBLE FACE EXIT SIGN, WALL MOUNTED. PROVIDE DIRECTIONAL ARROWS/CHEVRONS AS INDICATED ON PLAN.	
	EXISTING PANELBOARD, SURFACE MOUNTED - TO REMAIN IN PLACE.	
	EXISTING LIGHTING CONTACTOR - TO REMAIN IN PLACE.	
• R	EXISTING 2'x4' RECESSED FLUORESCENT TROFFER - REMOVE.	
R	EXISTING 2'x4' RECESSED FLUORESCENT TROFFER WITH INTEGRAL EMERGENCY BATTERY PACK - REMOVE.	
R R	EXISTING 4' VANITY FLUORESCENT WALL FIXTURE - REMOVE.	
OR	EXISTING FLUORESCENT DOWNLIGHT - REMOVE.	
Ю	EXISTING WALL MOUNTED EXTERIOR LIGHTING FIXTURE - REMOVE.	
⊗R	EXISTING CEILING MOUNTED EXIT SIGN - REMOVE.	
⊬ ⊗ R	EXISTING WALL MOUNTED EXIT SIGN - REMOVE.	
S _E	EXISTING SINGLE-POLE LIGHT SWITCH OR LOW VOLTAGE LIGHT SWITCH - TO REMAIN IN PLACE.	

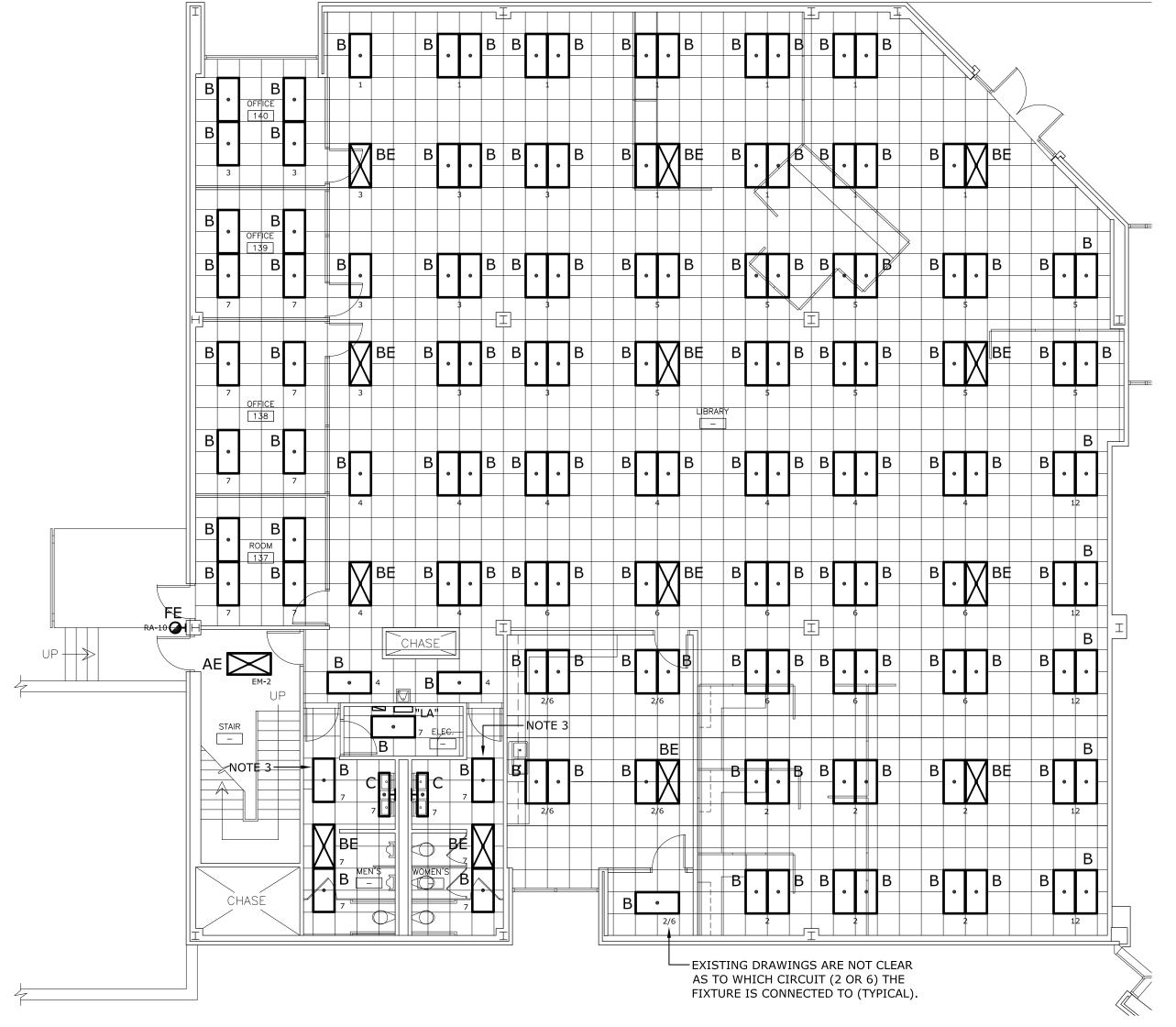
	ELECTRICAL DRAWING INDEX
E-1	GENERAL NOTES, LEGEND, AND SCHEDULES
E-2	FIRST FLOOR LIGHTING PLANS - BASE BID
E-3	FIRST FLOOR LIGHTING PLANS - ADD ALTERNATE 1
E-4	FIRST FLOOR LIGHTING PLANS - ADD ALTERNATE 2

- 1. EXISTING LIGHTING CIRCUITS INDICATED ON ARE SERVED FROM PANEL "LA" UNLESS NOTED OTHERWISE. CIRCUIT NUMBERS WERE COPIED FROM ORIGINAL CONSTRUCTION DRAWINGS - FIELD VERIFY PRIOR TO WORKING ON EXISTING CIRCUITS.
- USING MULTI-WIRE CIRCUITS WITH A COMMON NEUTRAL, AND THE EXISTING CIRCUIT BREAKERS IN PANEL "LA" FOR THESE CIRCUITS DO NOT CURRENTLY HAVE TIE HANDLES INSTALLED FOR 3-POLE GROUPINGS. PROVIDE TIE HANDLE ACCESSORIES ON THE EXISTING SINGLE-POLE BREAKERS THAT SERVE THE MULTI-WIRE CIRCUITS IN PANEL "LA". THE CONTRACTOR MAY OPTIONALLY REPLACE SINGLE POLE BREAKERS WITH 3-POLE BREAKERS.
- 3. FOR LIGHTING FIXTURES REFERENCED TO THIS NOTE, NO FIXTURE IS CURRENTLY INSTALLED AT THIS LOCATION. PROVIDE NEW OR EXTEND EXISTING RACEWAYS AND WIRING AS REQUIRED TO SERVE NEW FIXTURES ON CIRCUIT INDICATED.
- 4. NOTE: PANELBOARD "EM" IS LOCATED IN AN EQUIPMENT ROOM ON THE LOWER LEVEL OF THE BUILDING (BELOW STAIR).
- 5. EXISTING LIGHTING CONTACTOR CURRENTLY CONTROLS LIGHTS IN THE LIBRARY VIA LOW VOLTAGE SWITCHES AND IS TO REMAIN IN PLACE.
- 6. THERE IS AN ONGOING SEPARATE CONTRACT TO RENOVATE THE CEILINGS AND FINISHES IN THE MEN'S AND WOMEN'S RESTROOMS. THIS CONTRACTOR SHALL COORDINATE LIGHTING REPLACEMENT IN THE RESTROOMS WITH THE GENERAL CONTRACTOR WHO IS RENOVATING THE RESTROOMS TO ENSURE A SMOOTH FLOW OF WORK AND TO NOT CAUSE DELAYS IN THE WORK OF EITHER CONTRACT.



KEY PLAN - FIRST FLOOR NOT TO SCALE







USC-2014-10

LAND ENGINEERING ASSOCIATES, LLC 262 SANDHURST ROAD, SUITE 101 COLUMBIA, SOUTH CAROLINA (803) 528-1437 Joe.Land.LEA@sc.rr.com

LIGHTING DEMOLITION PLAN - FIRST FLOOR SCALE: 1/8" = 1'-0" BASE BID

LIGHTING RENOVATION PLAN - FIRST FLOOR SCALE: 1/8" = 1'-0" BASE BID

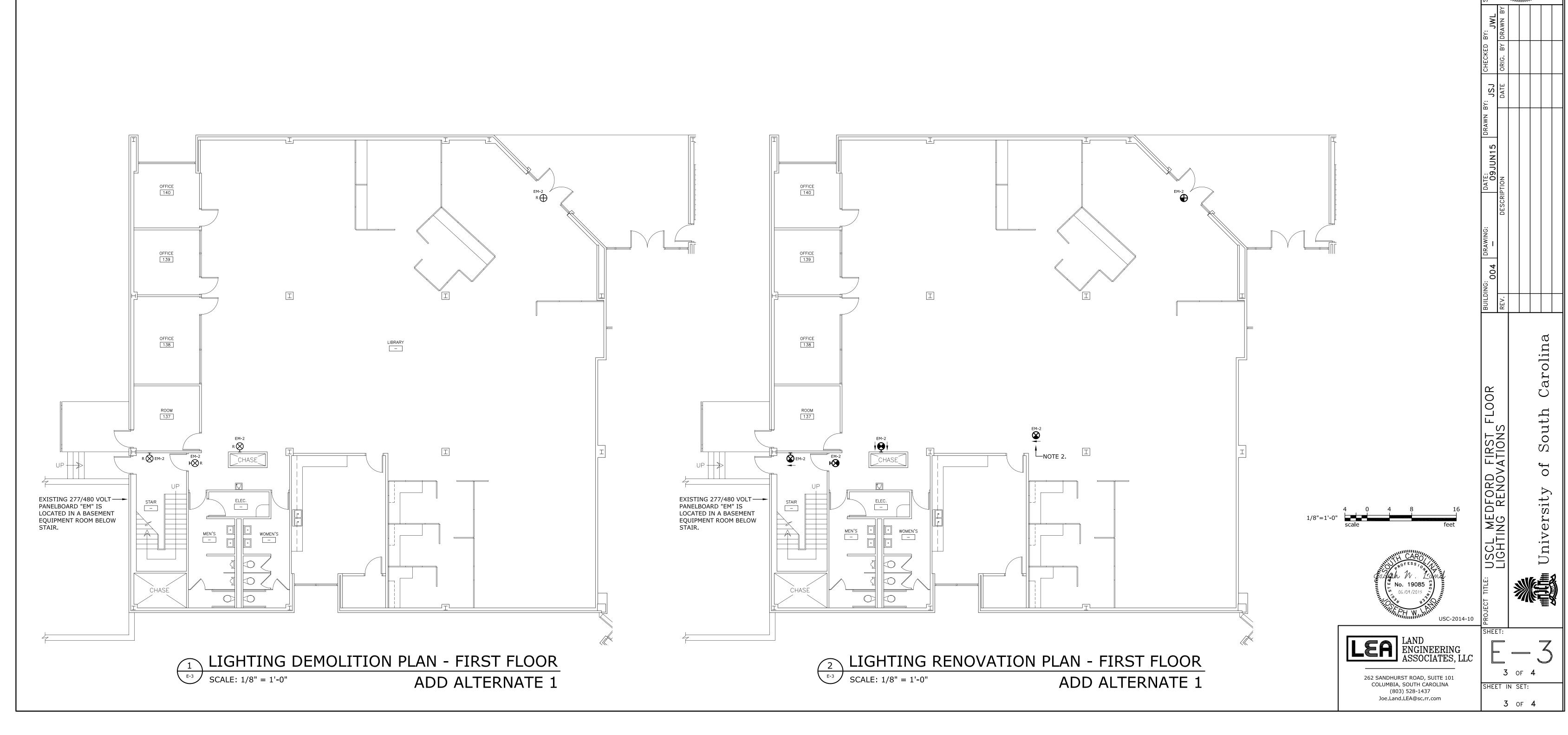
OFFICE OF ACILITIES MANAGE COLUMBIA, SC 29208

2 of 4 SHEET IN SET:

2 of 4

KEY PLAN - FIRST FLOOR

NOT TO SCALE



LIGHTING NOTES

1. EXISTING EXIT SIGN CIRCUITS INDICATED ON PLAN ARE SERVED FROM PANEL "EM" UNLESS NOTED OTHERWISE. CIRCUIT NUMBERS WERE COPIED FROM ORIGINAL

CONSTRUCTION DRAWINGS - FIELD VERIFY PRIOR TO WORKING ON EXISTING CIRCUITS

2. FOR EXIT SIGNS REFERENCED TO THIS NOTE, NO EXIT SIGN IS CURRENTLY INSTALLED AT THIS LOCATION. PROVIDE NEW OR EXTEND EXISTING RACEWAYS AND WIRING AS REQUIRED TO SERVE NEW EXIT SIGN.

