

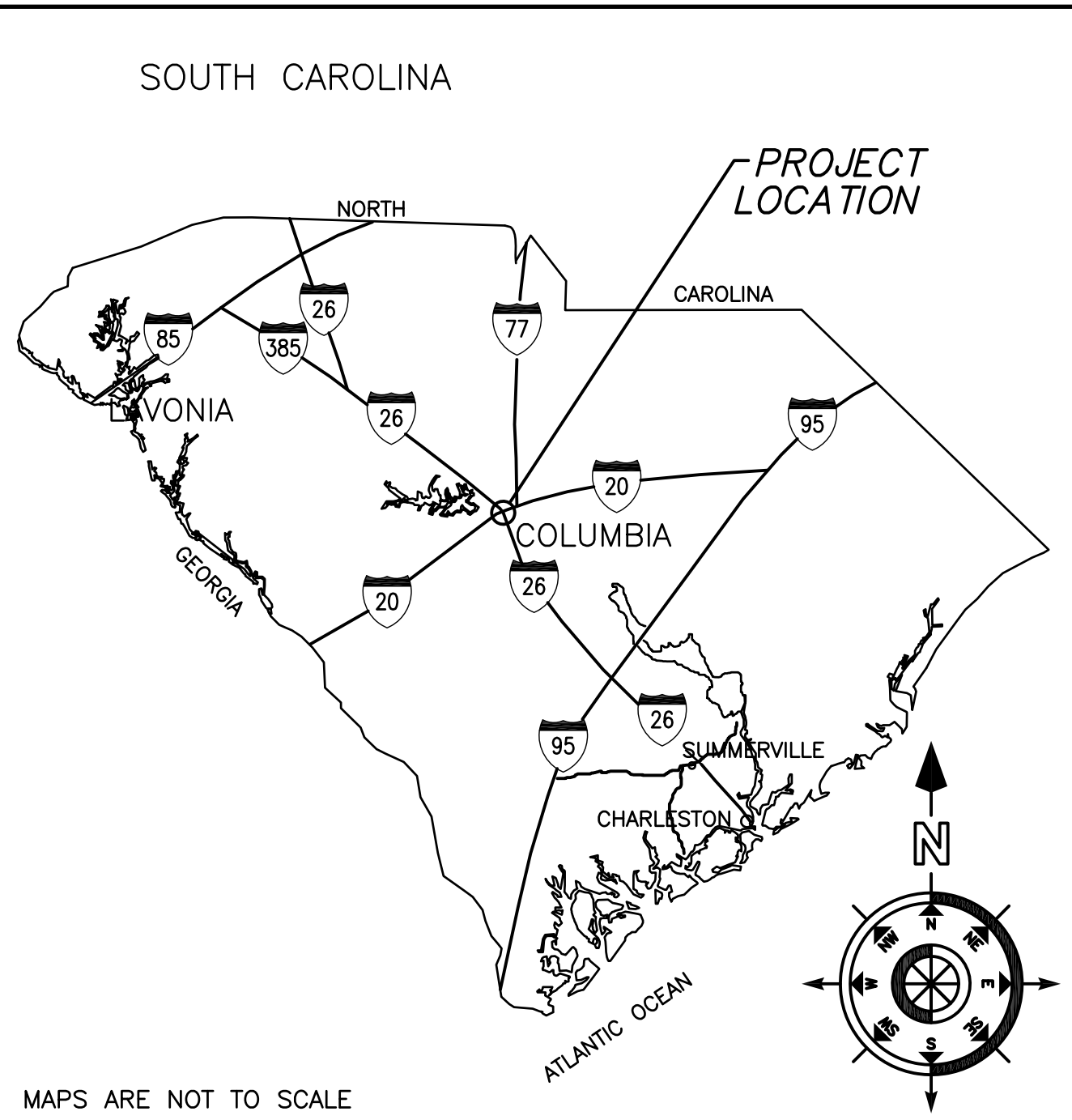
# DM12 HUMANITIES CR ELEVATORS/MACHINE ROOM UNIVERSITY OF SOUTH CAROLINA

COLUMBIA, SC

# CONSTRUCTION DOCUMENTS FEBRUARY 26, 2015

STATE PROJECT NUMBER: #H27-6100  
ARCHITECT'S PROJECT NUMBER: U-787-14-6

**STATE LOCATION MAP**      **VICINITY LOCATION MAPS**      **CODE STANDARDS**      **INDEX OF DRAWINGS**



**CODE STANDARDS**

PROJECT DESIGNED IN ACCORDANCE WITH:

- INTERNATIONAL BUILDING CODE (IBC), 2012
- INTERNATIONAL FIRE CODE (IFC), 2012
- INTERNATIONAL MECH. CODE (IMC), 2012
- INTERNATIONAL PLUMBING CODE (IPC), 2012
- NATIONAL ELECTRICAL CODE (NEC) [NFPA 70], 2011
- NATIONAL ELECTRICAL SAFETY CODE, IEEE-CE-2012
- ANSI A117 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, 2009
- STATE FIRE MARSHALL REGULATIONS AND POLICIES.
- STATE OF SC TELEPHONE EQUIPMENT ROOM AND COMMUNICATIONS/ DATA SYSTEMS POLICIES AS FORMULATED BY THE DIVISION OF STATE INFORMATION TECHNOLOGY (DIST).

**INDEX OF DRAWINGS**

TITLE	T1.1	TITLE SHEET, CODE STANDARDS, LOCATION MAP & INDEX OF DRAWINGS
<b>ARCHITECTURAL</b>	A1.1	5th FLOOR PLAN, SECTIONS, INT. ELEVATIONS, NOTES & LEGENDS
<b>MECHANICAL</b>	M1.1	FLOOR PLAN, DETAILS, NOTES, SCHEDULES, AND LEGEND
<b>ELECTRICAL</b>	E1.0	PENTHOUSE ELECTRICAL PLANS & SYMBOL LEGEND
	E2.0	LOWER FLOOR ELECTRICAL PLANS

**MATERIAL DESIGNATIONS**

	COMPACTED EARTH		WOOD (ROUGH)
	POROUS FILL (STONE OR GRAVEL)		WOOD (FINISHED)
	CONCRETE		PLYWOOD
	CONCRETE MASONRY UNIT (CMU)		BATT INSULATION
	BRICK		GYPSUM BOARD
	SAND, PLASTER, CEMENT, GROUT		RIGID INSULATION
	STEEL		

**ABBREVIATIONS**

○	ANGLE
○ AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
BLKG	BLOCKING
BU	BUILT-UP ROOF
CL	CENTERLINE
CJ	CONTROL JOINT
CLG	CEILING
CTR	CENTER
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
DA	DIAMETER
DS	DOWN SPOUT
DWG	DRAWING
EXT	EXTERIOR
EXIST	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
EQUIP	EQUIPMENT
ENC	ELECTRIC WATER COOLER
FIN	FINISH
FD	FLOOR DRAIN
FOF	FACE OF FINISH
FOS	FACE OF STUD
FR	FIRE RETARDANT
FV	FIELD VERIFY
GA	GAUGE
GYP	GYPSUM BOARD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING VENTILATION AIR-CONDITIONING
ID	INSIDE DIAMETER
INSUL	INSULATION
JT	JOINT
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
P	PAINT
PL	PLATE, PROPERTY LINE
PT	PRESSURE TREATED
R, RAD	RADIUS
REQD	REQUIRED
RD	ROUGH OPENING
RD	ROUGH OPENING
RD	ROUGH OPENING
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STR	STRUCTURAL
SUSP	SUSPENDED
TBS	TO BE SELECTED
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
W/	WITH
WC	WATER CLOSET
WR	WATER RESISTANT
WWF	WELDED WIRE FABRIC
WD	WOOD

**ARCHITECTURAL SYMBOLS**

**TITLE**  
SCALE: 1" = 1'-0"  
REF: 1/A1.1  
DETAIL NUMBER: 1  
LOCATION OF DETAIL CUT (AS SHOWN): 1/A1.1  
BUILDING SECTION REFERENCE: 1/A1.1  
BUILDING SECTION NUMBER: 1/A1.1  
WHERE BUILDING SECTION IS SHOWN: 1/A1.1

**PLAN DETAIL REFERENCE**  
DETAIL NUMBER: 1  
WHERE DETAIL IS SHOWN: 1/A1.1

**WALL SECTION / DETAIL SECTION REFERENCE**  
WALL SECTION / DETAIL NUMBER: 1/A1.1  
WHERE WALL SECTION / DETAIL IS SHOWN: 1/A1.1

**ELEVATION REFERENCE**  
ELEVATION NUMBER: 1/A1.1  
WHERE ELEVATION IS SHOWN: 1/A1.1

**ALTERNATE ELEVATION REFERENCE**  
ELEVATION NUMBER: 1/A1.1  
WHERE ELEVATION IS SHOWN: 1/A1.1

**ROOM TAG SYMBOL**  
ROOM NAME: 101  
ROOM NUMBER: 101

**DOOR SYMBOL**  
001A - DOOR NUMBER  
DX FX - FRAME TYPE  
DOOR TYPE

**FIRE RATED WALL SYMBOLS**  
SEE PARTITION TYPES FOR UL DESIGN NO'S.

**REVISION SYMBOL**  
CLOUD AROUND REVISION

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Interdisciplinary Design Architecture Interior Planning



**Project Title**  
USC DM12 HUMANITIES CR  
ELEVATOR/MACHINE ROOM  
UNIVERSITY OF SOUTH CAROLINA  
STATE PROJECT #H27-6100  
COLUMBIA, SOUTH CAROLINA

**Project No.** 14-3  
**Date** 02/26/15  
**Drawn By** KDS  
**Checked By** RRH  
**Date** 03/15/15

**Revisions**

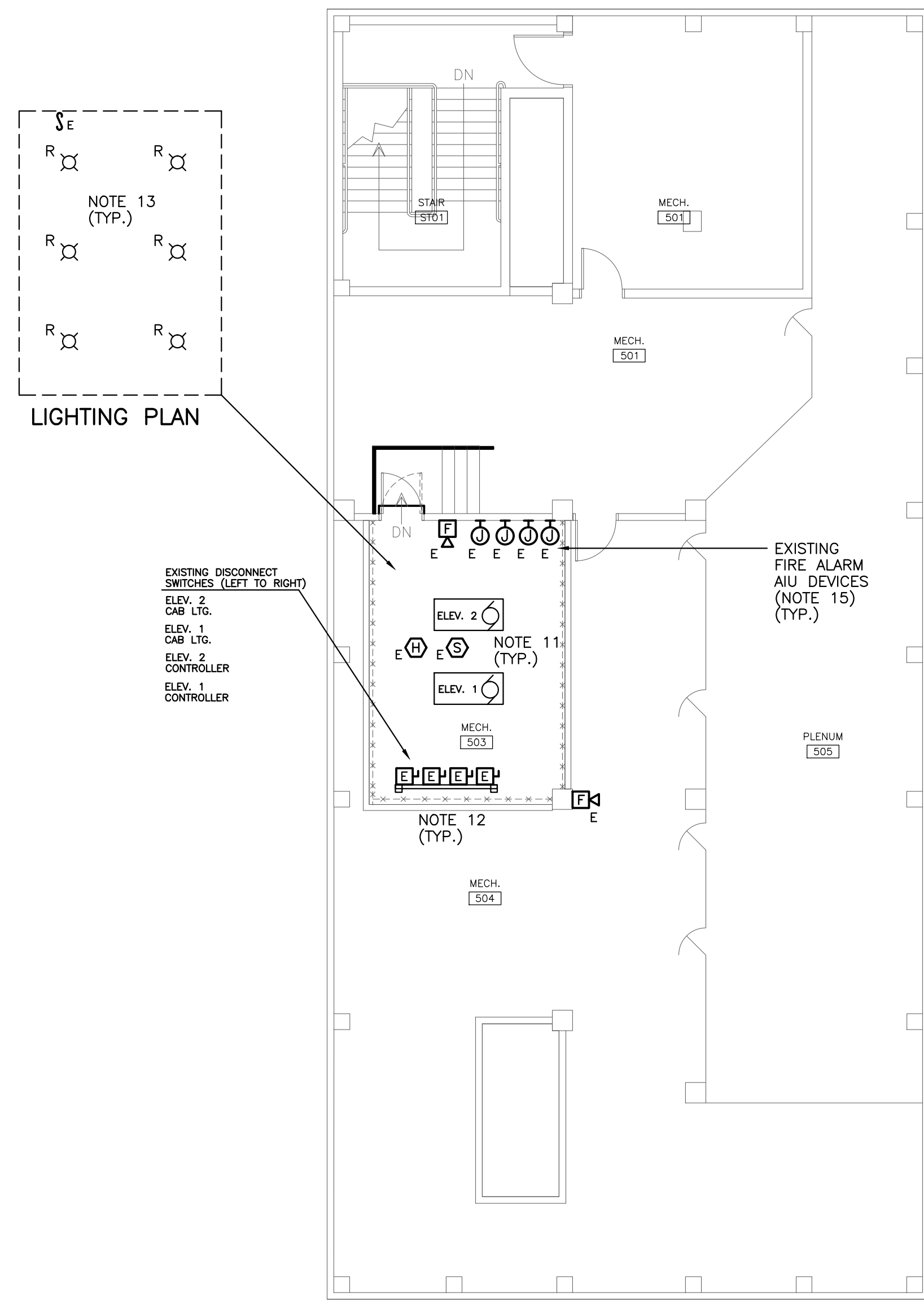
No.	Name	Date

**Drawing Title**  
TITLE SHEET, CODE  
STANDARDS, LOCATION  
MAPS & INDEX OF DRAWINGS

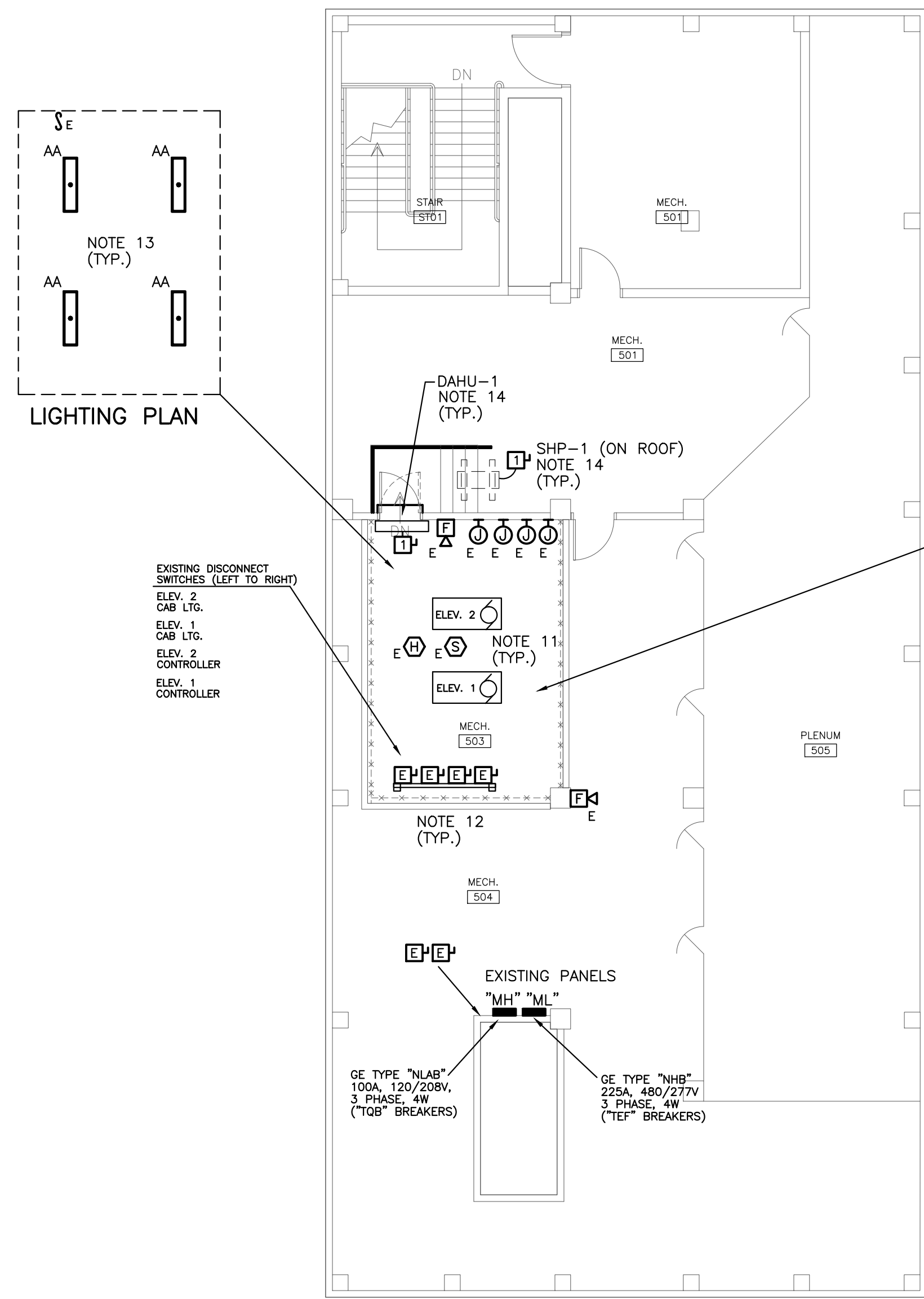
**Drawing No.**  
T1.1







LIGHTING PLAN



LIGHTING PLAN

ELECTRICAL SYMBOL LEGEND	
R	EXISTING LIGHTING FIXTURE TO BE REMOVED BY ELECTRICAL CONTRACTOR
AA	NEW 4' FLUORESCENT LIGHTING FIXTURE (LITHONIA# VWC 232 120 GE810S EL5 OR APPROVED EQUAL), STEM PENDANT MOUNTED 10'0" AFF (COORDINATE LOCATIONS WITH ELEVATOR EQUIPMENT LAYOUT)
⊘	EXISTING SINGLE POLE SWITCH TO REMAIN
E	EXISTING DUPLEX RECEPTACLE TO REMAIN
⊚	EXISTING VOICE/DATA OUTLET TO REMAIN
⊙	EXISTING FIRE ALARM AUI J-BOX TO REMAIN
⊕	EXISTING SMOKE DETECTOR, CEILING MOUNTED, TO REMAIN
⊖	EXISTING HEAT DETECTOR, CEILING MOUNTED, TO REMAIN
E ⊕	EXISTING FIRE ALARM INDICATING DEVICES TO REMAIN
⊞	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN
⊞	EXISTING ELECTRICAL PANEL TO REMAIN
⊞	EXISTING SAFETY FUSIBLE DISCONNECT SWITCH TO REMAIN
⊞	NEW SAFETY FUSIBLE DISCONNECT SWITCH (30 AMP, 240V RATED, 2 POLE, NEMA 3R ENCLOSURE)
⊚	EXISTING MOTOR CONNECTION

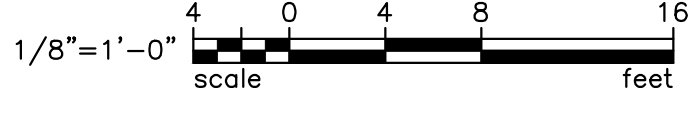
**1** PENTHOUSE ELECTRICAL DEMOLITION PLAN  
SCALE: 1/8" = 1'-0"

**2** PENTHOUSE ELECTRICAL RENOVATION PLAN  
SCALE: 1/8" = 1'-0"

PENTHOUSE ELECTRICAL NOTES	
11.	DISCONNECT AND RECONNECT ALL EXISTING ELEVATOR RELATED CIRCUITS AS REQUIRED FOR ELEVATOR UPGRADES. COORDINATE WITH ELEVATOR CONTRACTOR.
12.	EXISTING DISCONNECT SWITCHES (BOTH FOR CONTROLLERS AND CAB LIGHTS) SHALL BE REUSED. CHANGE FUSING TO MEET ELEVATOR MANUFACTURER'S RECOMMENDED RATING AND TYPE. EXISTING SWITCHES SHALL BE REMAIN MOUNTED TO EXISTING STRUCTURAL RACK. CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORT TO MAKE RACK SECURE TO FLOOR AND/OR NEW WALL.
13.	REMOVE EXISTING LIGHTING FIXTURES AND PROVIDE NEW 4' FLUORESCENT LIGHT FIXTURES IN ELEVATOR MACHINE ROOM.
14.	PROVIDE 20 AMP, 208V, 1 PHASE CIRCUIT FOR NEW SHP-1 AND DAHU-1. INDOOR UNIT SHALL BE FED FROM OUTDOOR UNIT. PROVIDE 2#10, 1#10G, IN 3/4"C, AND 30 AMP, 2 POLE BREAKER IN EXISTING PANEL "ML" TO FEED NEW SHP-1/DAHU-1.
15.	EXISTING FIRE ALARM SYSTEM (SIMPLEX/GRINNELL 4100S SERIES) WAS INSTALLED IN LAST 3 YEARS. ALL ELEVATOR-RELATED FIRE ALARM DEVICES SHALL REMAIN. DISCONNECT AND RECONNECT AS REQUIRED. A QUALIFIED FIRE ALARM TECHNICIAN SHALL PERFORM ANY WORK ON FIRE ALARM SYSTEM/DEVICES AND SHALL RE-TEST AS REQUIRED BY USC FIRE MARSHAL.
16.	ELECTRICAL CONTRACTOR SHALL COORDINATE THE PROVISION OF NEW ELEVATOR TRAVEL CABLES WITH THE GENERAL AND ELEVATOR CONTRACTORS. EACH TRAVEL CABLE SHALL INCLUDE CAB PHONE CABLE, FIBER FOR FUTURE CAB CCTV CAMERA, AND FIRE ALARM CABLE FOR CAB AUDIO-ONLY INDICATING DEVICE. PROVIDE FIRE AUDIO-ONLY INDICATING DEVICE IN EACH CAB; COORDINATE MOUNTING WITH ELEVATOR CONTRACTOR. THESE CABLES SHALL NOT BE TIE WRAPPED TO TRAVEL CABLE.

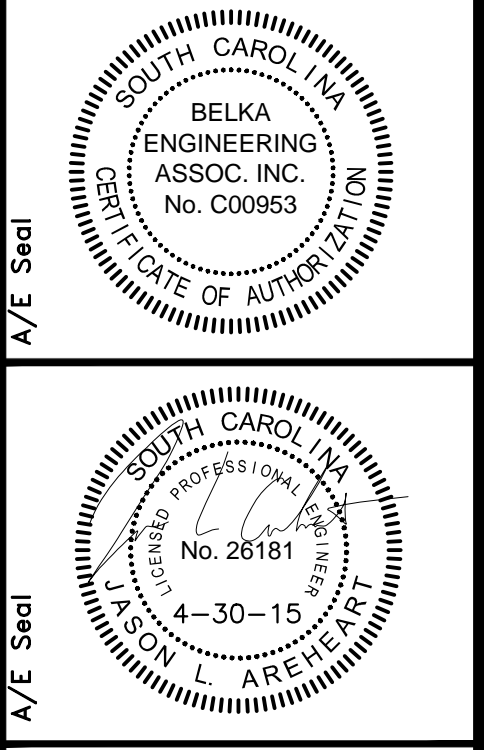
ELECTRICAL GENERAL NOTES	
1.	ELECTRICAL LAYOUT DRAWINGS ARE DIAGRAMMATIC, COORDINATE ALL WORK WITH ARCHITECTURAL, CIVIL, STRUCTURAL, AND MECHANICAL DOCUMENTS.
2.	INSTALL THE ELECTRICAL SYSTEM WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL STEEL, OR OTHER SYSTEMS.
3.	LOCATE LIGHTING FIXTURES SYMMETRICALLY IN THE PROPER RELATION TO FINISHED AREAS, EXCEPT WHERE DIMENSIONED ON DRAWINGS OR LOCATED ON REFLECTED CEILING PLANS
4.	PROVIDE ADDITIONAL SUPPORTS FOR PANELBOARDS, SWITCHES, STARTERS, RACEWAYS, AND OTHER ELECTRICAL EQUIPMENT WHEREVER THE BUILDING STRUCTURE IS NOT SUITABLE FOR DIRECT MOUNTING. PROVIDE TWO #12 SLACK CABLES TO STRUCTURE FROM EACH FIXTURE MOUNTED IN A GRID CEILING.
5.	MOUNT GROUPED DEVICES IN A SINGLE CONTINUOUS MULTI-GANG BOX.
6.	MINIMUM SIZES FOR WIRE AND CONDUIT ARE INDICATED ON THE PANELBOARD SCHEDULES FOR EACH BRANCH AND FEEDER CIRCUIT. WHERE BRANCH CIRCUIT WIRING IS NOT INDICATED ON PLAN, THE ARRANGEMENT, GROUPING, AND ROUTING OF THESE CIRCUITS SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.
7.	EMT FITTINGS SHALL BE OF THE COMPRESSION TYPE. SET-SCREW OR INDENTOR TYPE FITTINGS SHALL NOT BE USED.
8.	OUTLETS WHICH OCCUR ON OPPOSITE SIDES OF A COMMON WALL SHALL BE OFFSET A MINIMUM OF 6 INCHES.

ELECTRICAL DRAWING INDEX	
E1.0	PENTHOUSE ELECTRICAL PLANS & SYMBOL LEGEND
E2.0	LOWER FLOORS ELECTRICAL PLANS



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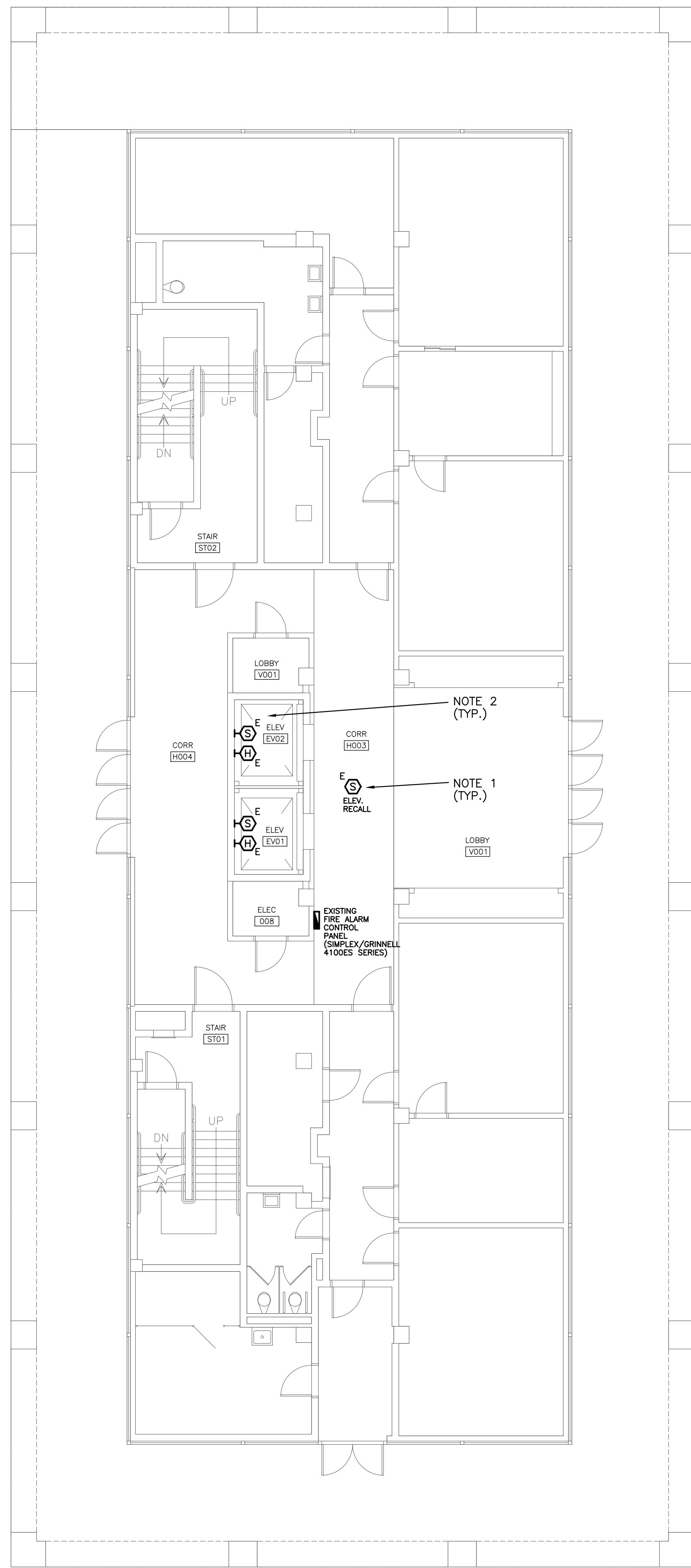


**USC DM12 HUMANITIES CR  
ELEVATOR/MACHINE ROOM  
UNIVERSITY OF SOUTH CAROLINA  
STATE PROJECT #427-6100  
CONSTRUCTION DOCUMENTS  
COLUMBIA, SOUTH CAROLINA**

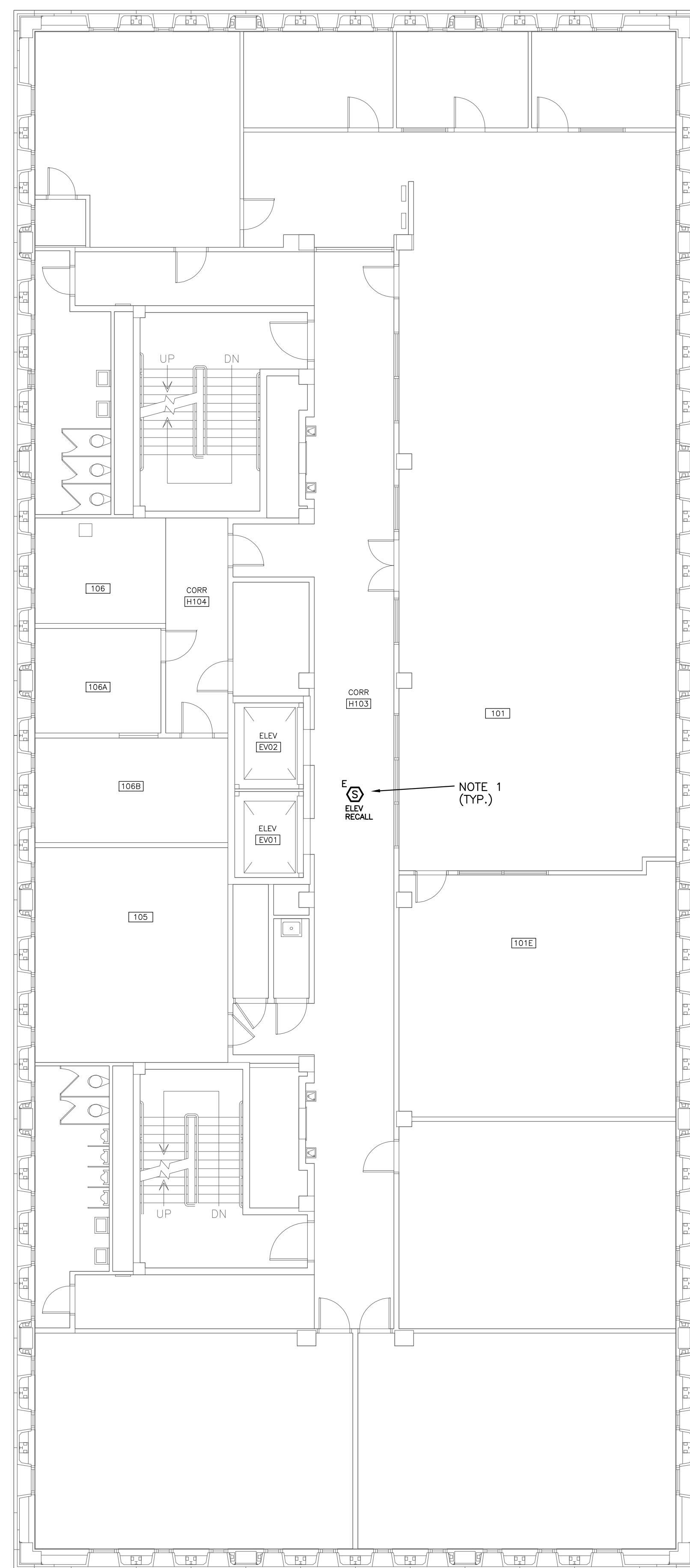
Project Title	Revision No.	Name	Date
USC DM12 HUMANITIES CR ELEVATOR/MACHINE ROOM UNIVERSITY OF SOUTH CAROLINA STATE PROJECT #427-6100 CONSTRUCTION DOCUMENTS COLUMBIA, SOUTH CAROLINA	1	PMR	
	2	JLA	04.30.15

**PENTHOUSE ELECTRICAL  
PLANS & SYMBOL LEGEND**

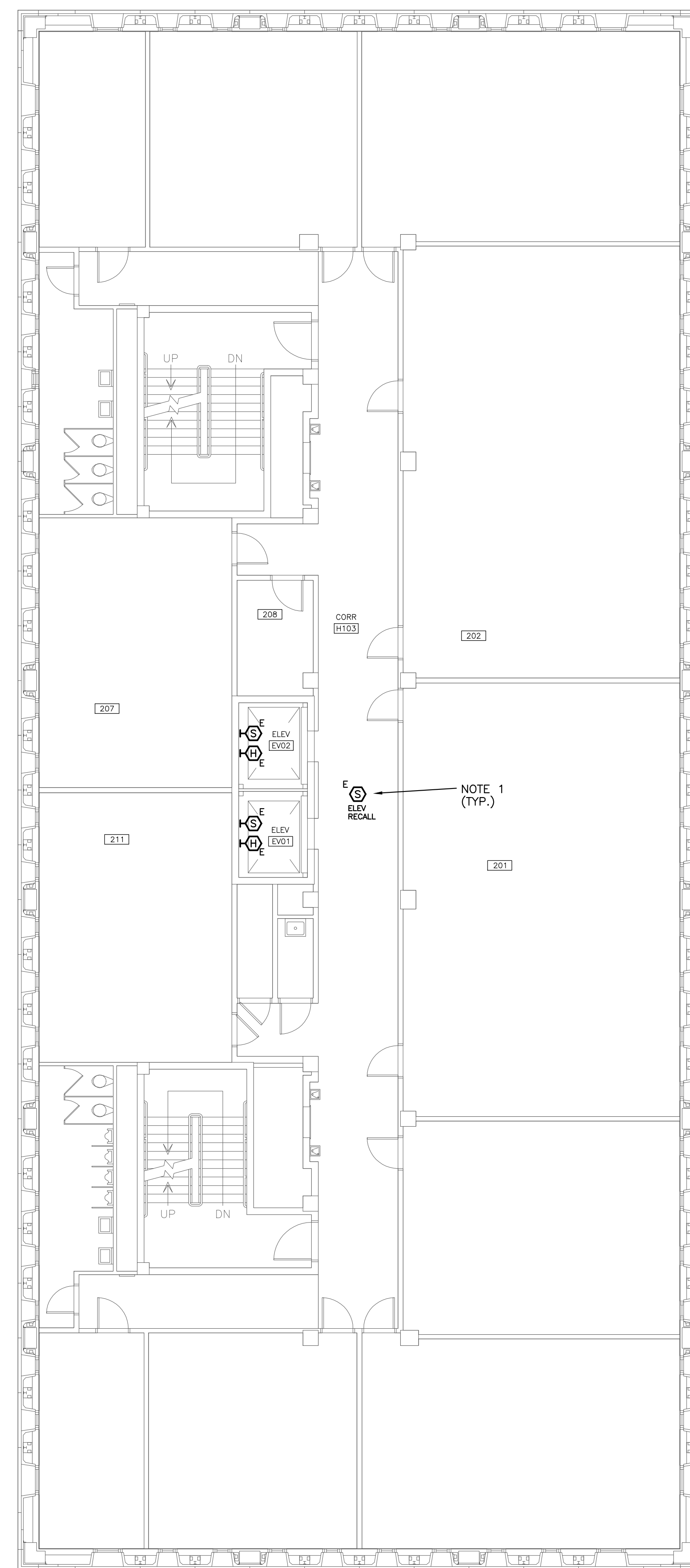
Drawing No. **E1.0**



**1** GROUND LEVEL ELECTRICAL PLAN  
 SCALE: 1/8" = 1'-0"

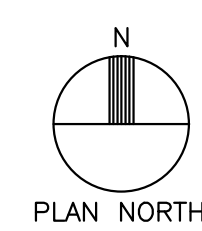
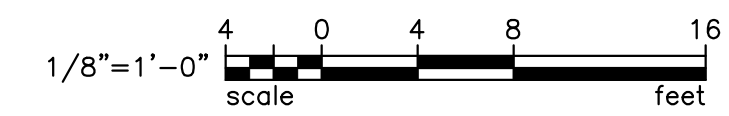


**2** FIRST LEVEL ELECTRICAL PLAN  
 SCALE: 1/8" = 1'-0"



**3** TYPICAL 2ND THRU 4TH FLOOR ELECTRICAL PLAN  
 SCALE: 1/8" = 1'-0"

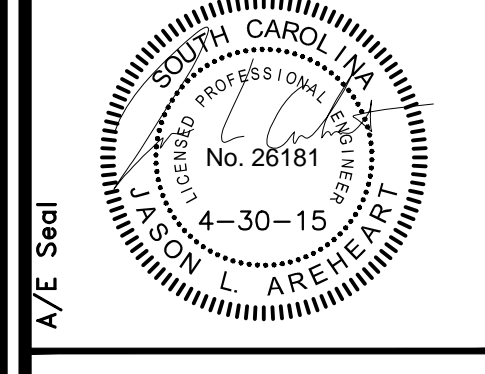
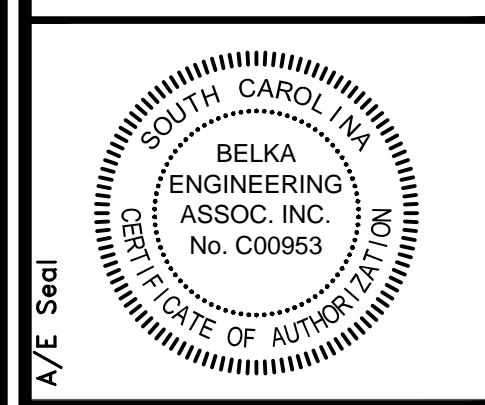
- ELECTRICAL NOTES
1. EXISTING ELEVATOR-RELATED FIRE ALARM DEVICES SHALL REMAIN. ELECTRICAL CONTRACTOR SHALL CONFIRM OPERATION OF ALL ELEVATOR-RELATED FIRE ALARM DEVICES (I.E. ELEVATOR RECALL, ETC.). REPLACE ANY DEVICE AS REQUIRED.
  2. CONFIRM PIT LIGHTING AND CONVENIENCE RECEPTACLE IS OPERATIONAL. REPLACE/RELAMP AS REQUIRED.



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Interdisciplinary Design. Architecture. Interior Planning.



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 USC DM12 HUMANITIES CR  
 ELEVATOR/MACHINE ROOM  
 UNIVERSITY OF SOUTH CAROLINA  
 STATE PROJECT #H27-6100  
**CONSTRUCTION DOCUMENTS**  
 COLUMBIA, SOUTH CAROLINA

**Project No.** 12-3  
**Drawn By** PMR  
**Checked By** JJA  
 Oct. 30, 15

Revisions	No.	Name	Date

**Drawing Title**  
 LOWER FLOORS  
 ELECTRICAL PLANS

**Drawing No.**  
**E2.0**