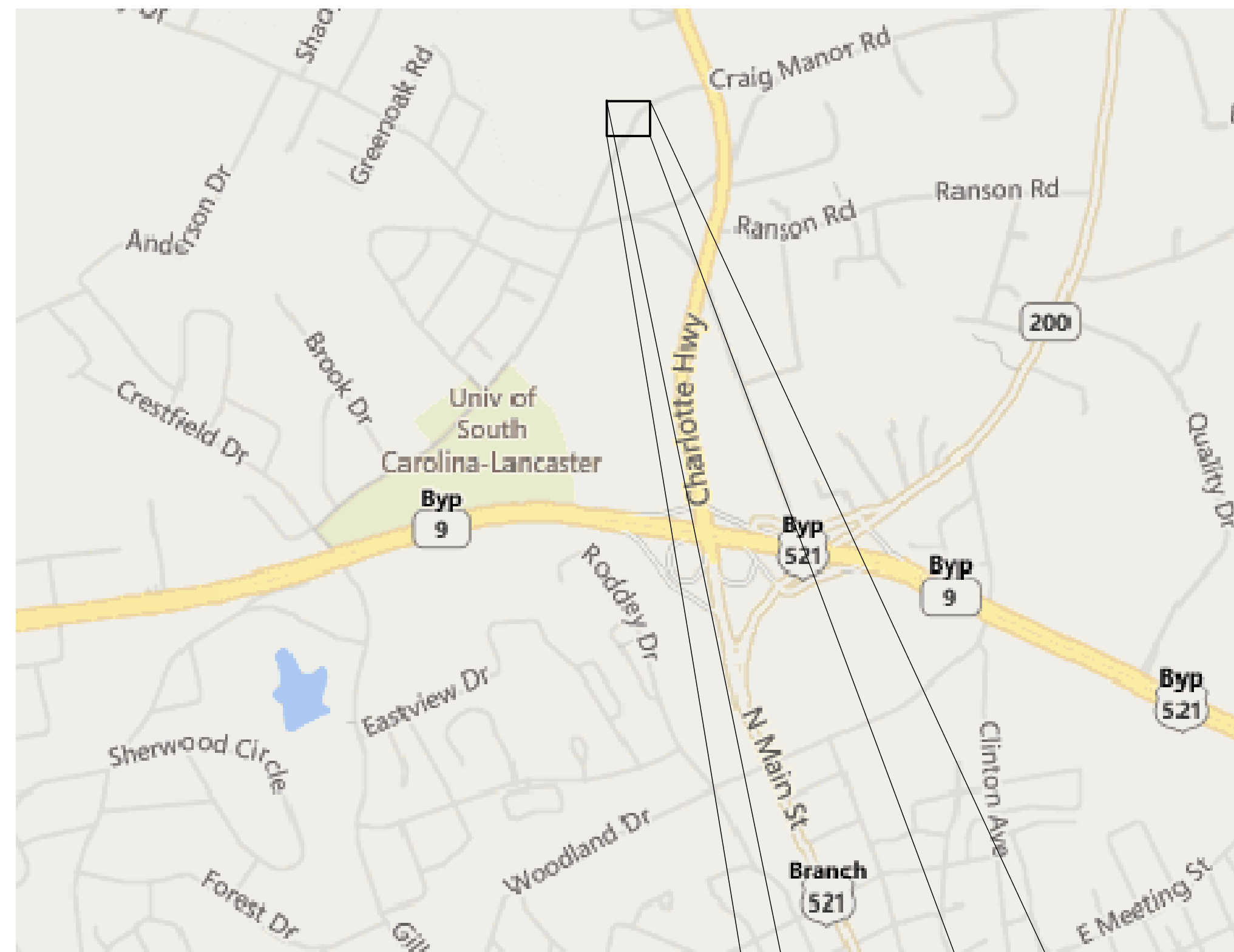


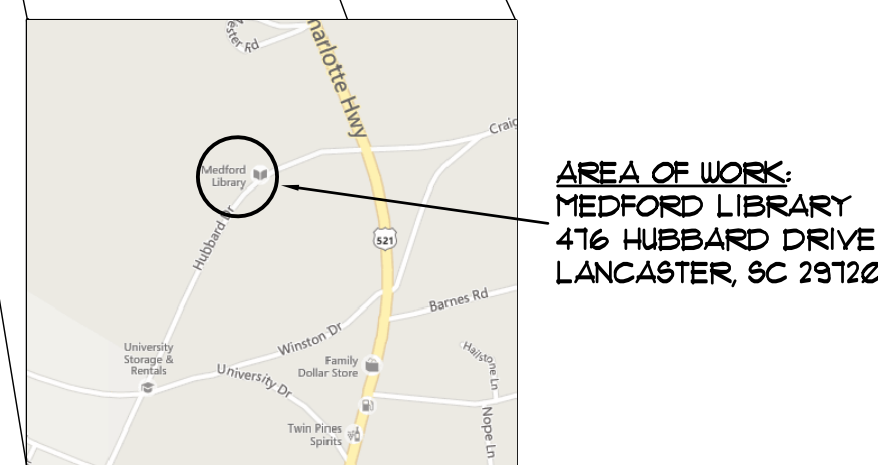
# MEDFORD ELEVATOR REPLACEMENT

## UNIVERSITY OF SOUTH CAROLINA

LANCASTER, SOUTH CAROLINA  
STATE PROJECT # H37-9513



**SITE LOCATION**  
NO SCALE

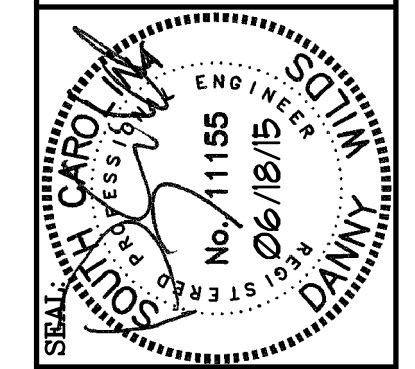


AREA OF WORK:  
MEDFORD LIBRARY  
416 HUBBARD DRIVE  
LANCASTER, SC 29120

INDEX OF DRAWINGS	
C-1	COVER SHEET
ELV-1	ELEVATOR FLOOR PLAN AND SPECIFICATIONS
E-1	ELECTRICAL FLOOR PLAN AND NOTES

GENERAL NOTES	
1.	DO NOT SCALE DRAWINGS. ROUGH FROM EXISTING CONDITIONS AND EQUIPMENT MANUFACTURER'S DRAWINGS.
2.	WHENEVER THE WORD "PROVIDE" IS USED IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
3.	INSTALLATION OF EQUIPMENT, WIRING, PIPING, ETC. SHALL COMPLY WITH THE 2012 INTERNATIONAL BUILDING CODE FOR SEISMIC PROTECTION.

CODE REVIEW INFORMATION	
INSTALLATION OF ALL COMPONENTS SHALL COMPLY WITH THE LATEST EDITIONS OF THE FOLLOWING:	
1.	International Building Code - 2012 Edition.
2.	South Carolina Elevator Code
3.	ASME A17.1 Safety Code for Elevators and Escalators
4.	National Electric Code - 2011 Edition.



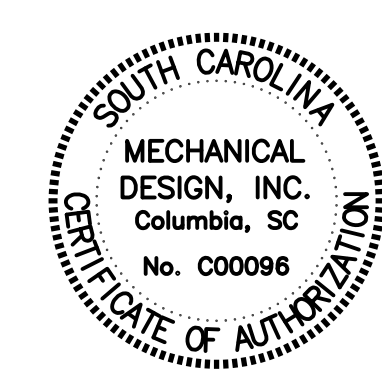
CHECKED BY:	DATE:	DRAWN BY:	DATE:	DRAWING:	BUILDING:	REV.
MCH	18 JUNE 15	DLF		ELEVATORC1		
				DESCRIPTION		

**MECHANICAL ENGINEER**  
**MECHANICAL DESIGN, INC.**  
4403 BROAD RIVER ROAD  
COLUMBIA, S.C. 29210  
(803) 731-9834



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

**SPECIAL NOTE:**  
IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS RELATING TO THIS PROJECT. SUBMISSION OF A BID WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE OF WORK.



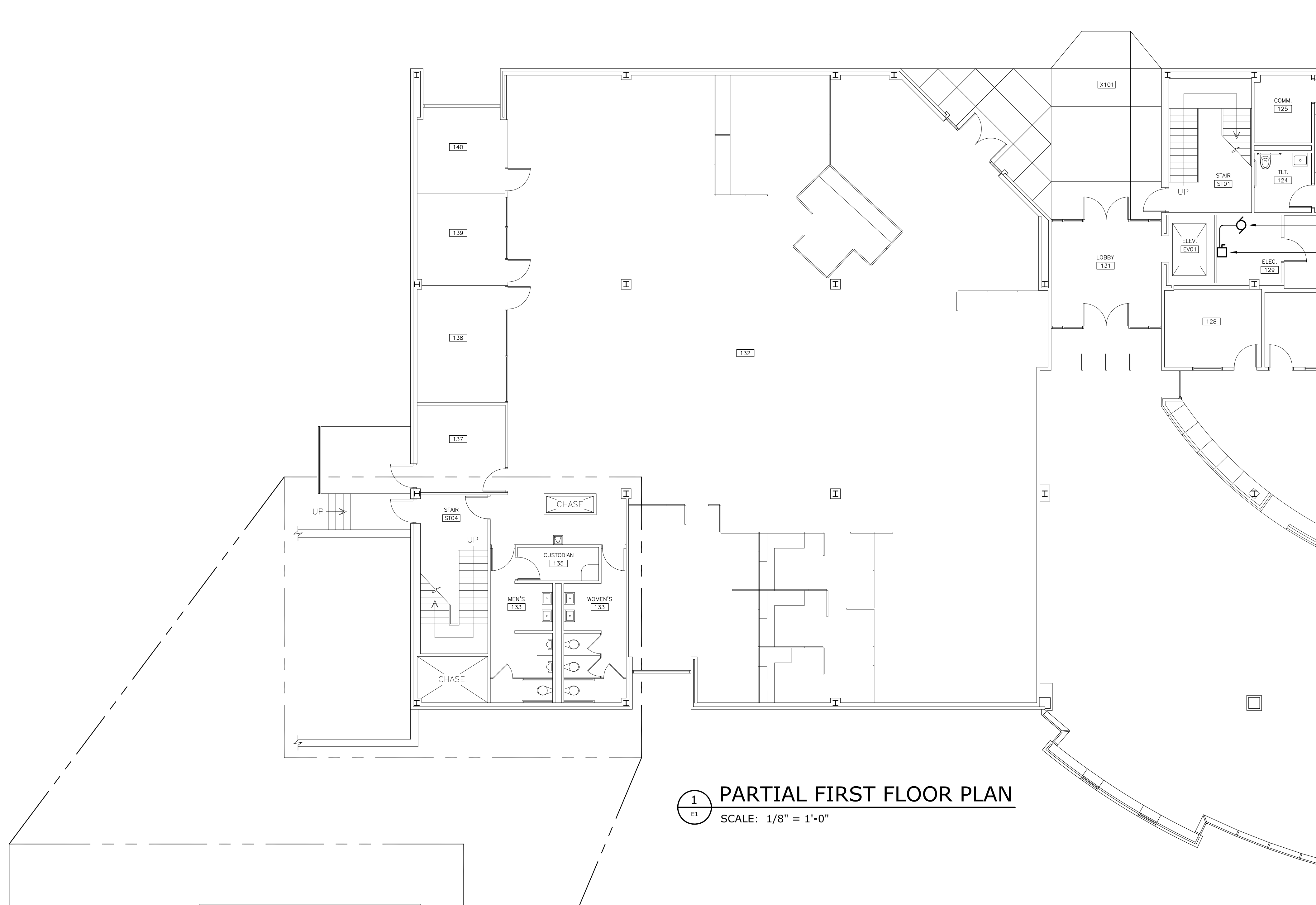
**MECHANICAL DESIGN, INC.**  
4403 Broad River Road  
Columbia, S.C. 29210  
(803) 731-9834  
(803) 731-9837 FAX  
CONTACT: M. HENDRIX  
DATE: 06/18/15 COMM. NO. 153194

PROJECT TITLE: MEDFORD ELEVATOR REPLACEMENT  
UNIVERSITY OF SOUTH CAROLINA  
LANCASTER  
STATE PROJECT: H37-9513  
University of South Carolina

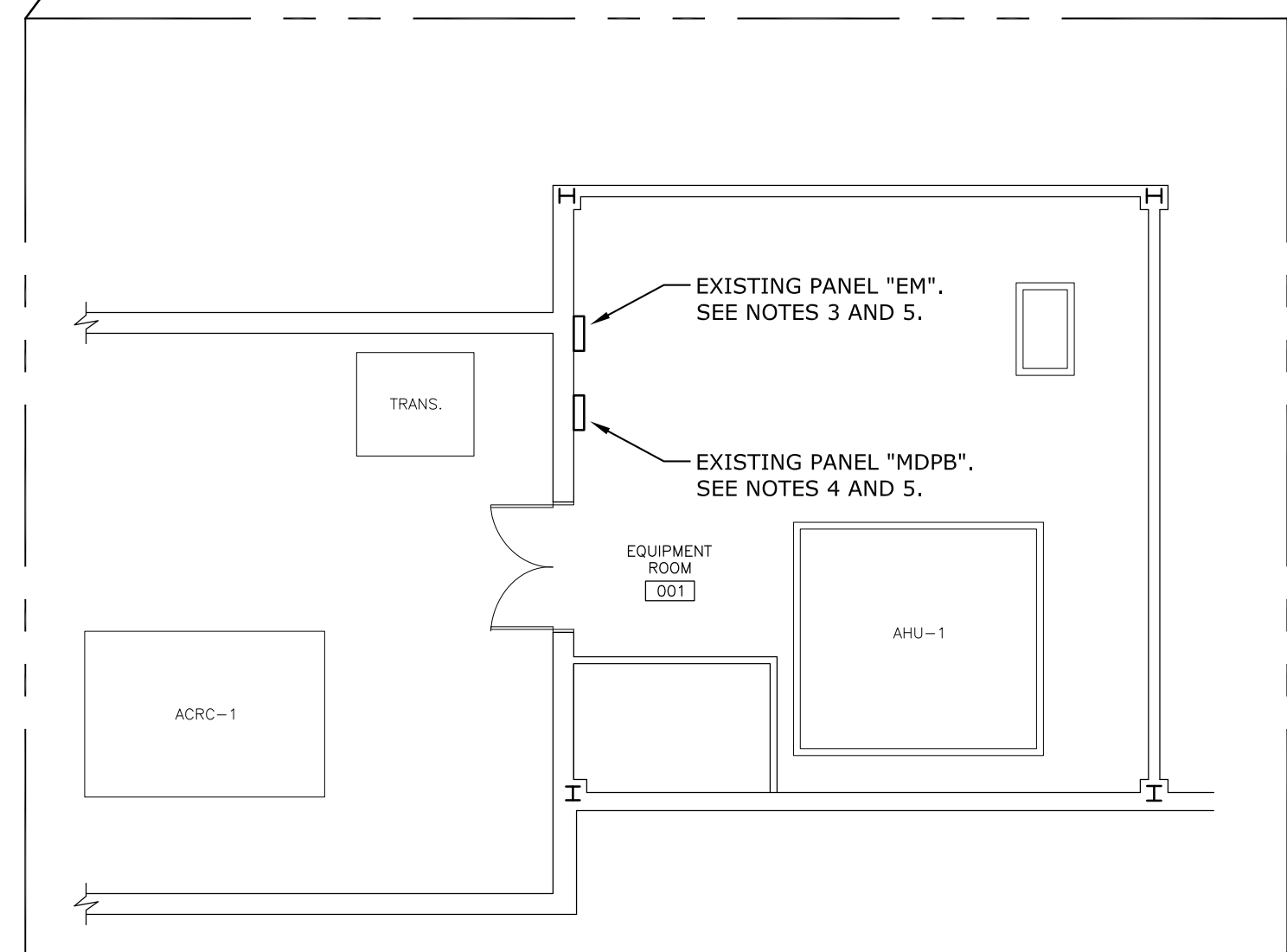
SHEET: C-1  
OF 3  
SHEET IN SET:  
1 OF 3

CAMPUS PLANNING  
AND CONSTRUCTION  
COLUMBIA, SC 29208  
CP00415087/FM00475815

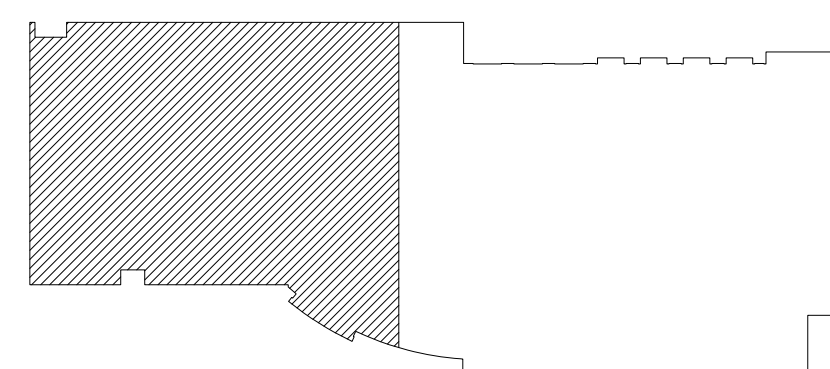




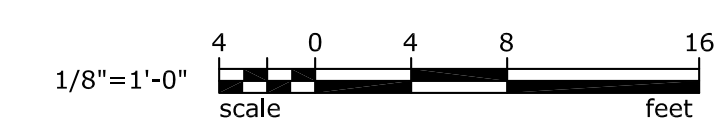
**1 PARTIAL FIRST FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



**2 BASEMENT MECH./ELEC. ROOM**  
SCALE: 1/8" = 1'-0"

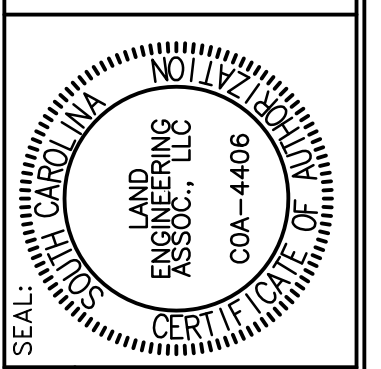


**KEY PLAN**  
SCALE: NTS  
PLAN NORTH



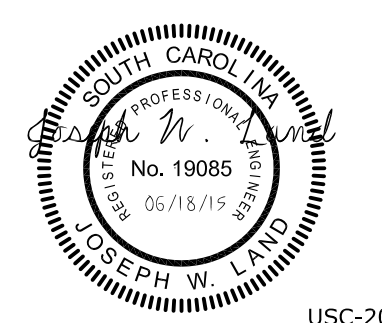
**ELECTRICAL NOTES**

- ELEVATOR MOTOR: THE EXISTING ELEVATOR HYDRAULIC PUMP AND ASSOCIATED ELECTRIC MOTOR ARE BEING REPLACED UNDER THIS CONTRACT. DISCONNECT, REMOVE, AND DISPOSE OF EXISTING FLEXIBLE RACEWAY AND CONDUCTORS BETWEEN EXISTING DISCONNECT SWITCH AND ELEVATOR MOTOR AS REQUIRED FOR MOTOR REMOVAL. ONCE NEW MOTOR AND PUMP ARE IN PLACE, PROVIDE THREE #8 AWG THIN COPPER CONDUCTORS WITH ONE #10 AWG GREEN INSULATED COPPER GROUND WIRE IN 3/4" LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC) FROM EXISTING DISCONNECT SWITCH TO NEW ELEVATOR MOTOR.
- DISCONNECT SWITCH: REMOVE 40-AMP RATED FUSES FROM EXISTING WESTINGHOUSE HEAVY-DUTY DISCONNECT SWITCH. PROVIDE THREE NEW 50 AMP, 480 VOLT RATED DUAL-ELEMENT TIME-DELAY FUSES IN EXISTING DISCONNECT SWITCH.
- PANEL "EM": PANEL IS AN EXISTING 277/480 VOLT WESTINGHOUSE PANELBOARD WITH A 70-AMP RATED MAIN CIRCUIT BREAKER, AND IT CURRENTLY SERVES THE ELEVATOR MOTOR VIA AN EXISTING 3-POLE, 50-AMP RATED CIRCUIT BREAKER. DISCONNECT THE EXISTING PHASE CONDUCTORS FROM THE 50-AMP RATED CIRCUIT BREAKER AND DISCONNECT THE GROUND WIRE ASSOCIATED WITH THE ELEVATOR MOTOR BRANCH CIRCUIT.
- PANEL "MDPB": PANEL IS AN EXISTING 277/480 VOLT, 400-AMP RATED CUTLER-HAMMER MAIN-LUGS-ONLY PANELBOARD. THE PANELBOARD HAS AN EXISTING, SPARE, 80-AMP RATED, 3-POLE CIRCUIT BREAKER THAT SHALL BE UTILIZED TO RE-SERVE THE EXISTING ELEVATOR MOTOR BRANCH CIRCUIT IN PANELBOARD "EM". PROVIDE THREE #8 AWG THIN COPPER CONDUCTORS WITH ONE #10 AWG GREEN INSULATED COPPER GROUND WIRE IN 3/4" EMT RACEWAY (WITH COMPRESSION FITTINGS) FROM PANELBOARD "MDPB" TO PANELBOARD "EM".  
CONNECT PHASE CONDUCTORS TO THE EXISTING 80-AMP RATED 3-POLE CIRCUIT BREAKER IN PANELBOARD "MDPB" AND TERMINATE GROUND WIRE ON PANEL GROUND BUS.  
SPlice PHASE CONDUCTORS AND GROUND WIRE TO THE EXISTING ELEVATOR MOTOR BRANCH CIRCUIT CONDUCTORS AND GROUND WIRE IN PANELBOARD "EM". UTILIZE COPPER SPLIT-BOLT TYPE SPLICE CONNECTORS, WRAPPED IN ELECTRICAL TAPE, FOR ALL SPLICE CONNECTIONS.
- UPDATE PANELBOARD SCHEDULES TO REFLECT ADDED AND REMOVED LOADS.
- PROVIDE ALL WORK IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE.



SEAL:	CHECKED BY: JWJ	ORIG. BY:	
	DATE: 18JUN15	DATE:	
	DRAWN BY: JSJ	DATE:	
	DATE:	DESCRIPTION:	
BUILDING: 822	DRAWING:		
REV.			

PROJECT TITLE: MEDFORD ELEVATOR REPLACEMENT  
USC LANCASTER  
S.C. STATE PROJ. NO. H37-9531  
University of South Carolina



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