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ER - BRADLEY SYSTEM UPGR

 \mathbf{OF}

Columbia, S.C. 29210

(803) 731-9834

(803) 731-9837 FAX

сомм. No. 153195

SHEET IN SET:

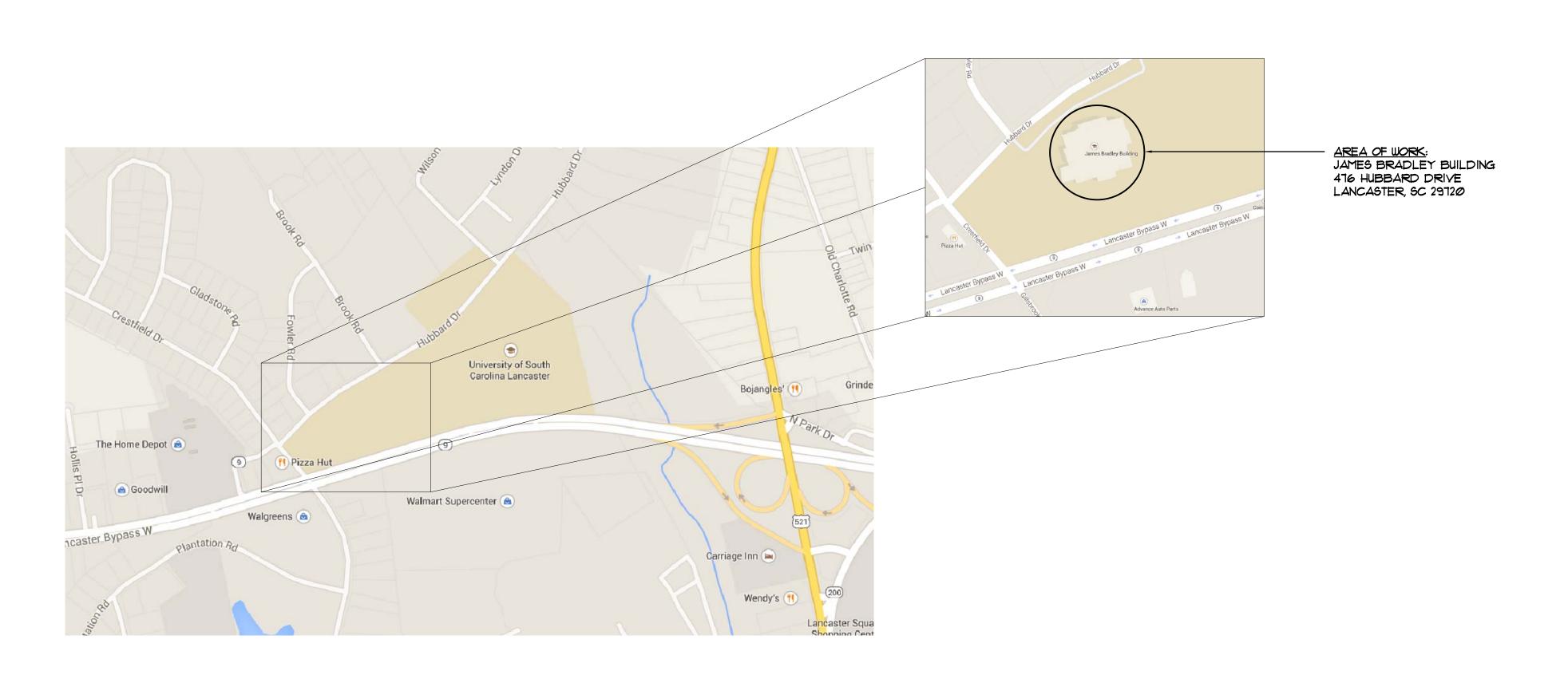
JSC LANCASTER - BRADLEY

EXHAUST SYSTEM UPGRADES

STATE PROJECT NO. H37-9515

THE UNIVERSITY OF SOUTH CAROLINA LANCASTER, SOUTH CAROLINA

FACILITIES PLANNING AND CONSTRUCTION



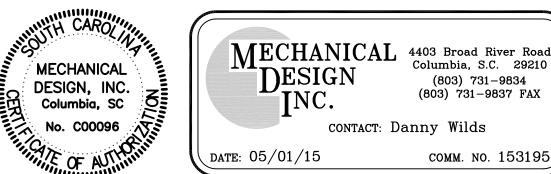
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MIØI	MECHANICAL RENOVATION FLOOR PLAN			
E1	ELECTRICAL NOTES, LEGEND, AND KEY PLAN			
E 2	ELECTRICAL DEMOLITION FLOOR PLAN			
E3	ELECTRICAL RENOVATION FLOOR PLAN			

CODE REVIEW INFORMATION

PROJECT DESIGNED IS ACCORDANCE WITH: International Building Code - 2012 Edition. International Plumbing Code - 2012 Edition. International Mechanical Code - 2012 Edition. National Electric Code - 2011 Edition.

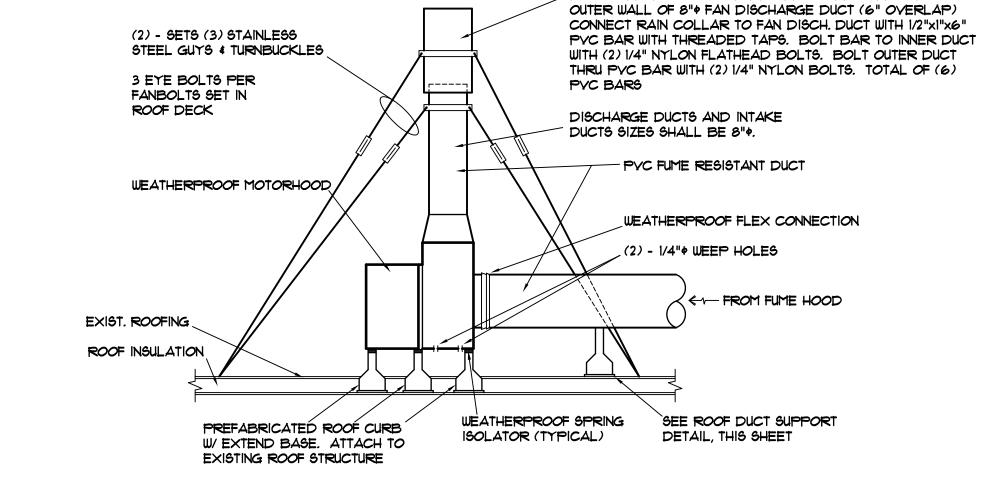
NORTH	UNIVERSITY	OF	SOUTH	CAROLINA-LANCASTER
	NO SCALE			





VENTILATING FAN SCHEDULE							
MARK	GREENHECK (2) MODEL	CFM	FAN S.P.	MOTOR () SIZE	SONES	DRIVE	CONTROLLED BY
LEF-1 3 6	SWD-8-VG	700	3/4"	1/2 HP	12.6	DIRECT	(5)
LEF-436	SWD-8-VG	700	3/4"	1/2 HP	12.6	DIRECT	(5)
LEF-5(3)(6)	SWD-8-VG	700	3/4"	1/2 HP	12.6	DIRECT	(5)
LEF-6(3)(6)	SWD-8-VG	700	3/4"	1/2 HP	12.6	DIRECT	(5)
EF-2 4	CUE-095-D	930	1/4"	1/6 HP	8.7	DIRECT	(5)

- 1) FANS TO MATCH AVAILABLE ELECTRICAL SERVICE, SEE ELECTRICAL
- 2) OR EQUAL BY COOK, TWIN CITY, CARNES, PENN OR APPROVED EQUAL
- 3 PROVIDE WITH DISCONNECT AND BACKDRAFT DAMPER
- (4) PROVIDE WITH ALUM. ROOF CURB, DISCONNECT AND BACKDRAFT DAMPER
- (5) LINE VOLTAGE SCR CONTROLLER CONNECT FAN TO EXISTING EMS (ALC)
- 6 PROVIDE GREENHECK HI-PRO POLYESTER COATING ON FAN SURFACES IN CONTACT WITH EXHAUST AIR STREAM



RAIN COLLAR WITH I" GAP BETWEEN INNER WALL AND



4. INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING, INCLUDING VIBRATION ISOLATION SHALL COMPLY WITH 2012 INTERNATIONAL BUILDING CODE FOR SEISMIC PROTECTION. SEE SPECIFICATIONS.

DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS.

WHENEVER THE WORD "PROVIDE" IS USED IT SHALL MEAN FURNISH

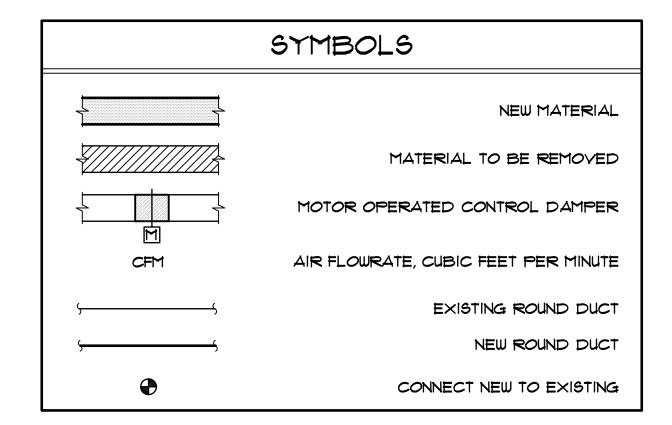
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

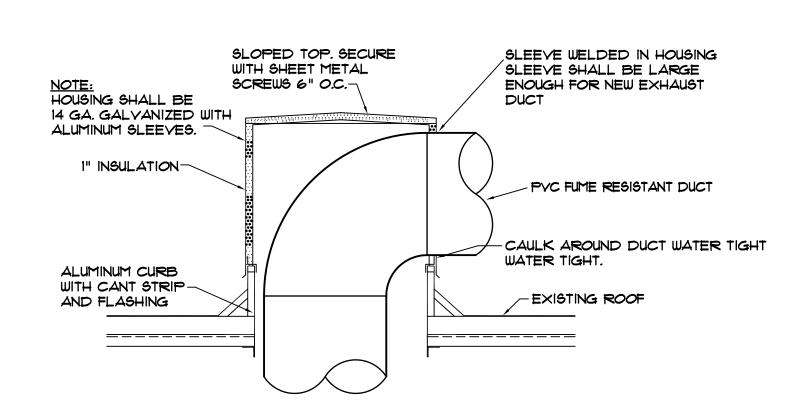
AND INSTALL COMPLETE AND READY FOR USE.

PROVIDE NEW 8" HEAVY DUTY ROUND CONTROL DAMPERS EQUAL TO RUSKIN CDR25 WITH MOTOR OPERATOR. DAMPERS AT CEILING EXHAUST SHALL BE LOW LEAKAGE WITH BLADE SEALS. DAMPERS AT HOOD CONNECTIONS SHALL BE PROVIDED WITHOUT BLADE SEALS.

NOTES

DO NOT SCALE DRAWINGS. ROUGH FROM EXISTING CONDITIONS, AND EQUIPMENT MANUFACTURER'S DRAWINGS.





DUCT PENETRATION PENTHOUSE DETAIL NOT TO SCALE

> MECHANICAL DESIGN, INC. Columbia, SC No. C00096

MECHANICAL 4403 Broad River Road Columbia S.C. 29210 Columbia, S.C. 29210 CONTACT: Danny Wilds

(803) 731-9834 (803) 731-9837 FAX

DATE: 05/01/15 сомм. No. 153195 CAMPUS PLANNING AND CONSTRUCTION COLUMBIA, SC 29208



WING:
ADLEYMOO1 DATE:
DESCRIPTION

arolin LANCASTER — BRADLEY BLDO EXHAUST SYSTEM UPGRADES uth 9515

USC LAB

OF 3

SHEET IN SET:

PITCH B-LINE C-PORT C-10 CHANNEL SUPPORT (6" × 9-5/8" × 4-13/16") ROOFTOP DUCT SUPPORT DETAIL NO SCALE

B-LINE B1999-SS VIBRA CUSHION

PYC FUME RESISTANT DUCT, SEE

FLOOR PLAN FOR SIZES

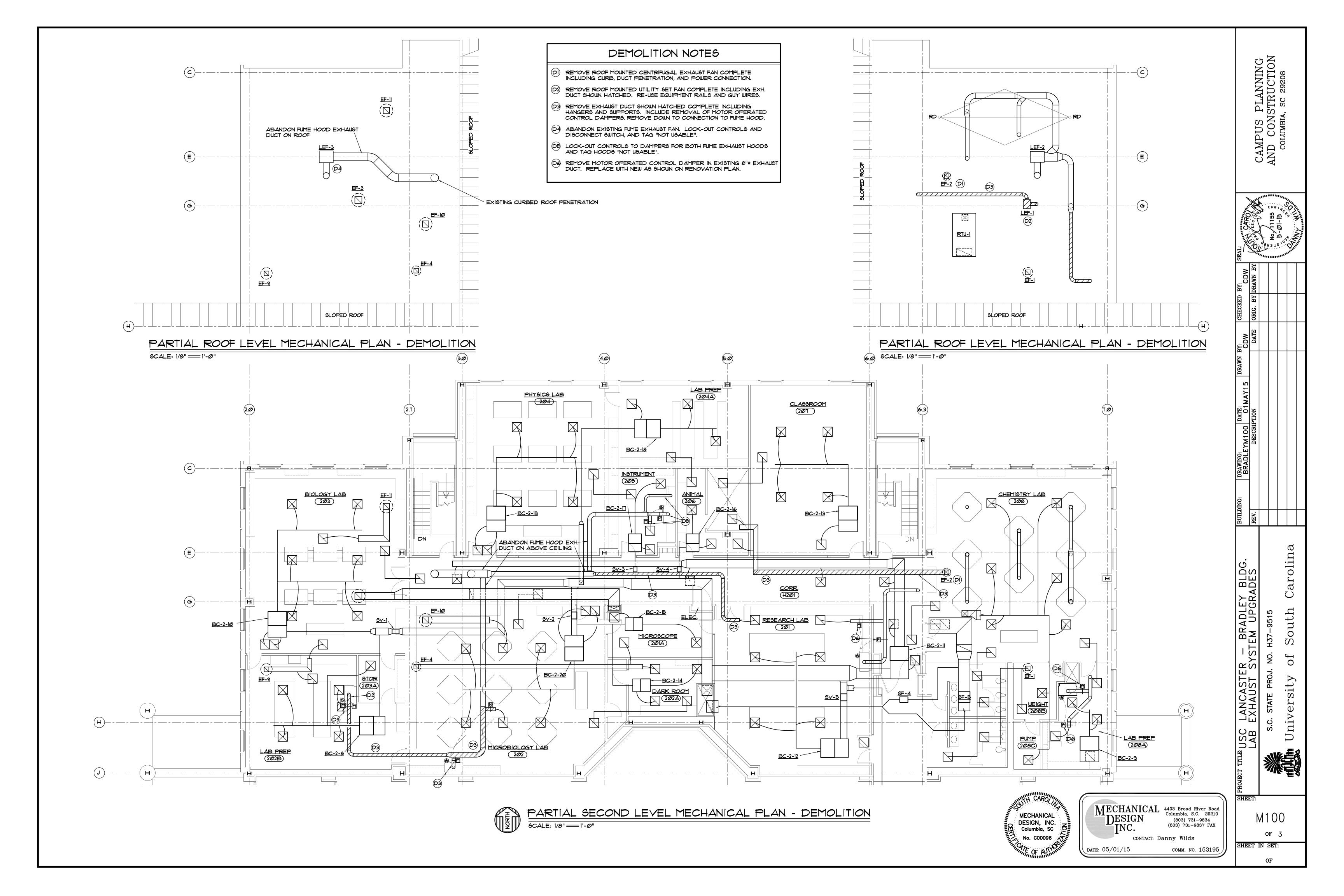
3 LAYERS ROOFING

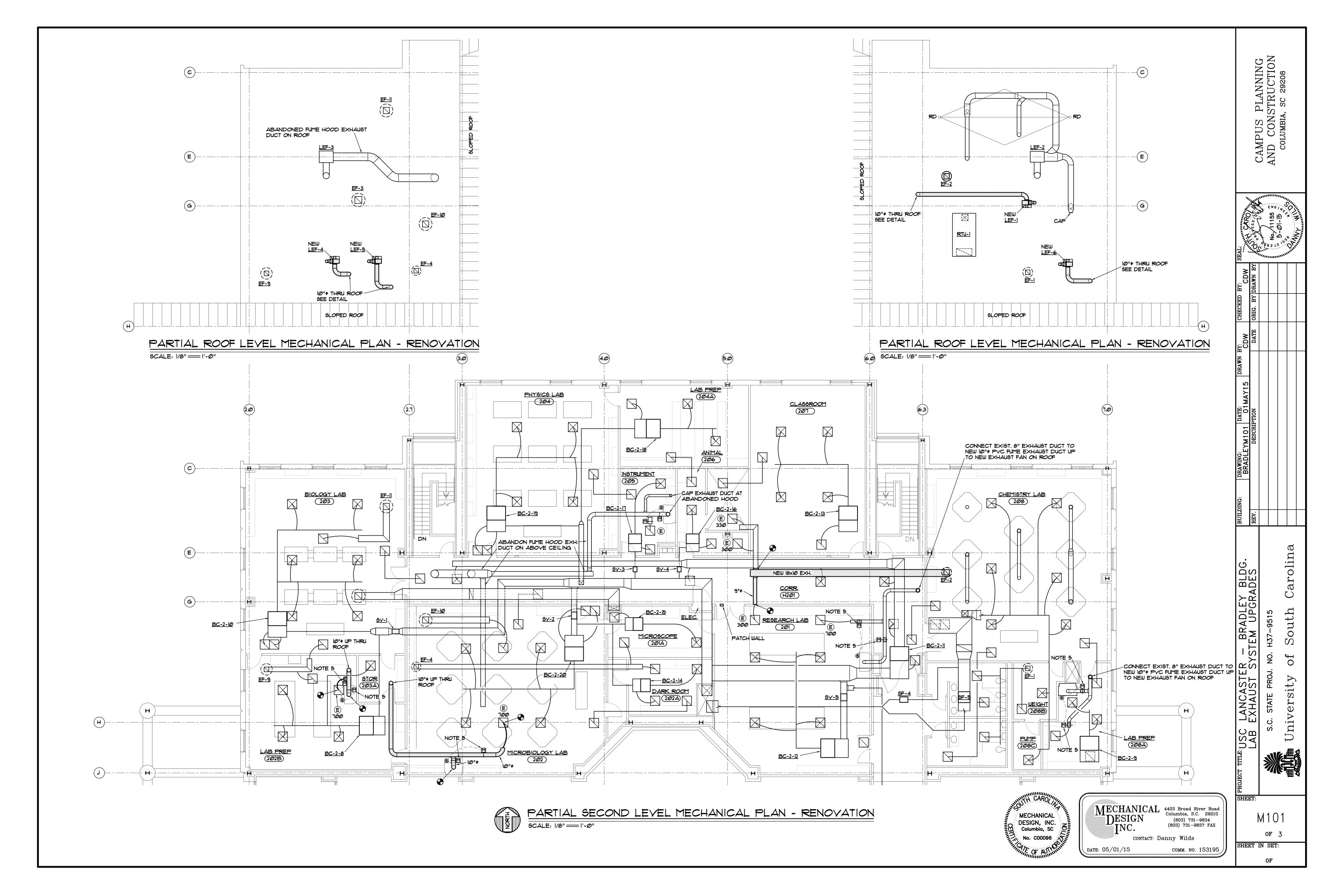
FELT AND HOT MOPPED

PIPE CLAMP COMPLETE WITH CUSHION, SS CLAMP, SCREW AND

B-LINE 12 GA

GALY CHANNEL





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 ALL DEVICES AND EQUIPMENT INDICATED ON THE CONTRACT DRAWINGS. THE DRAWINGS INDICATE PARTIAL RACEWAY AND WIRING REQUIREMENTS TO HELP CLARIFY DESIGN INTENT. WHERE RACEWAY AND/OR WIRING IS NOT INDICATED FOR DEVICES OR EQUIPMENT THE ARRANGEMENT, GROUPING, AND ROUTING SHALL BE PROVIDED IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE. CONTRACTOR MAY ONLY RE-USE EXISTING RACEWAYS AND WIRING WHERE THEIR CURRENT INSTALLATION METHODS COMPLY WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE (CONTRACTOR MAY CORRECT DEFICIENT INSTALLATION METHODS IF 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. ALL WIRE SHALL BE COPPER WITH THHN INSULATION.
- 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 AND CONTROL WIRING RENOVATIONS.
- 6. INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL MEMBERS, OR OTHER SYSTEMS.
- 7. 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 SYSTEMS.
- 8. 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.
- 9. 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.

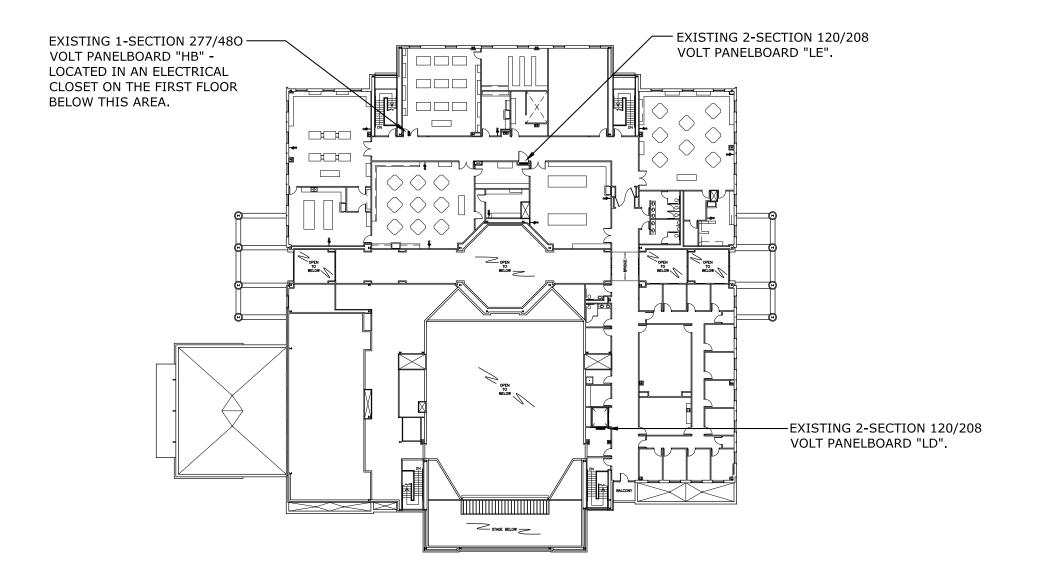
PROTECT EXISTING STRUCTURES, FURNISHINGS, FINISHES, MECHANICAL SYSTEMS, AND ELECTRICAL SYSTEMS WHILE PERFORMING CUTTING, DRILLING, FITTING, AND PATCHING.

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

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE/BUILDING TO FIELD VERIFY EXISTING CONDITIONS (PARTICULARLY ABOVE-CEILING CONDITIONS OF EXISTING RACEWAY AND WIRING INSTALLATION METHODS) PRIOR TO BID AND SHALL INCLUDE ALL WORK REQUIRED FOR COMPLETE DEMOLITION IN HIS BID - SEE GENERAL CONSTRUCTION NOTE 2 ON THIS DRAWING.

ELECTRICAL LEGEND								
SYMBOL	DESCRIPTION							
	EXISTING PANELBOARD - TYPE AS INDICATED ON PLAN.							
Ó₽	EXISTING MOTOR-DRIVEN EXHAUST FAN - TO BE ABANDONED IN PLACE.							
Ó₽	EXISTING MOTOR-DRIVEN EXHAUST FAN - DISCONNECT CIRCUIT AND RECONNECT AS NOTED ON PLAN.							
® ₪ □	EXISTING MOTOR OPERATED DAMPERS AND ASSOCIATED CONTROLS - COORDINATE WITH THE MECHANICAL CONTRACTOR AND REMOVE EXISTING RACEWAYS AND WIRING THAT SERVE THEM.							
Ó	ELECTRICAL CONNECTION TO A MOTOR OR TO MOTOR-DRIVEN EQUIPMENT. PROVIDE RACEWAY AND WIRING AS NOTED ON PLAN.							
٥	STEEL JUNCTION BOX WITH SCREW COVER. MOUNT ABOVE ACOUSTICAL DROP CEILING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.							









262 SANDHURST ROAD, SUITE 101 COLUMBIA, SOUTH CAROLINA (803) 528-1437 Joe.Land.LEA@sc.rr.com 1 OF 3
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LANCASTER — BRADLEY BLD EXHAUST SYSTEM UPGRADES

South

4 of 6

OFFICE OF ACILITIES MANAGE COLUMBIA, SC 29208

