SPARTANBURG COMMUNITY COLLEGE
TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS
STATE PROJECT NO. H59-6315-JM

SPARTANBURG Community College

1875 EAST MAIN ST.
DUNCAN, SC 29334

VICINITY MAP

N TRUE NORTH

N PLAN NORTH

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OSE APPLICABLE CODES AND STANDARDS

A. INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION WITH SCBC MODIFICATIONS

B. INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2021 EDITION

C. INTERNATIONAL FIRE CODE (IFC), 2021 EDITION WITH SCBC MODIFICATIONS

D. INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009 EDITION

E. INTERNATIONAL FUEL GAS CODE (IFGC), 2021 EDITION WITH SCBC MODIFICATIONS

F. INTERNATIONAL MECHANICAL CODE (IMC), 2021 EDITION WITH SCBC MODIFICATIONS

G. INTERNATIONAL PLUMBING CODE (IPC), 2021 EDITION WITH SCBC MODIFICATIONS, AND THE FOLLOWING INSERTIONS:
   1. SECTION 305.4.1, INSERT "18" AND INSERT "18"
   2. SECTION 903.1, INSERT "8"

H. INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE (IPSDC), 2021 EDITION

I. INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC), 2021 EDITION

J. INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS (IRC), 2021 EDITION WITH SCBC MODIFICATIONS, AND THE FOLLOWING INSERTIONS:
   1. P2603.5.1, INSERT "12" AND INSERT "24"

K. INTERNATIONAL WILDLAND – URBAN INTERFACE CODE (IWUIC), 2021 EDITION
   - **NOTE:** THE IWUIC DOES NOT SUPERSEDE EXISTING STATUTORY REQUIREMENTS.

L. INTERNATIONAL CODE COUNCIL PERFORMANCE CODE (ICCPC), 2021 EDITION, UPON STATE ENGINEER'S APPROVAL

M. INTERNATIONAL SWIMMING POOL AND SPA CODE (ISPSC), 2021 EDITION

N. STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, ICC 300-2017 EDITION

O. NATIONAL ELECTRICAL CODE (NEC) [NFPA-70], 2020 EDITION WITH SCBC MODIFICATIONS

P. NATIONAL ELECTRICAL SAFETY CODE (NESC), IEEE-C2-2017 EDITION

Q. ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES, ICC A117.1 (LATEST EDITION). NOTE, THIS IS THE STANDARD ADOPTED BY THE SOUTH CAROLINA ACCESSIBILITY ACT, BUT THIS REQUIREMENT DOES NOT RELIEVE THE AGENCY OR THE DESIGN PROFESSIONAL FROM THE FEDERAL STATUTORY REQUIREMENTS THAT DESIGN, AND CONSTRUCTION COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES. SEE HTTP://WWW.ACCESS-BOARD.GOV/GUIDELINES-AND-STANDARDS/BUILDINGS-AND-SITES/ABOUT-THE-ADA-STANDARDS/ADA-STANDARDS.

R. STATE FIRE MARSHAL RULES, REGULATIONS, AND POLICIES. SEE HTTP://STATEFIRE.LLR.SC.GOV/OSFM/INDEX.ASPX.

S. SOUTH CAROLINA ELEVATOR, CODE, & REGULATIONS. THE SC ELEVATOR CODE REFERENCES THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS SAFETY CODE FOR ELEVATORS, DUMBWAITERS, ESCALATORS, AND MOVING WALKS, AND SUPPLEMENTS THERETO, ASME A17.1-2019. SEE HTTP://WWW.LLR.SC.GOV/ELEVATORS/ .

T. STATE OF SC TELEPHONE EQUIPMENT ROOM AND COMMUNICATIONS/DATA SYSTEMS POLICIES AS FORMULATED BY THE OFFICE OF TECHNOLOGY AND INFORMATION SERVICES (OTIS).

U. STATE OF SC BUILDING STANDARDS IN FLOODPLAIN AREAS. THE SOUTH CAROLINA MODULAR BUILDINGS CONSTRUCTION ACT.

PROJECT CONTACTS

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EMAIL: KPATEL@DP3ARCHITECTS.COM
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0" 1" 2" 3" 4" (BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

SOUTH CAROLINA DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 35953 CARSON CARPENTER 01/19/26

CONSULTANT

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PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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DRAWING NAME
COVER SHEET

DRAWING NO.
G000

Drawn By: ASE Checked By: CJC

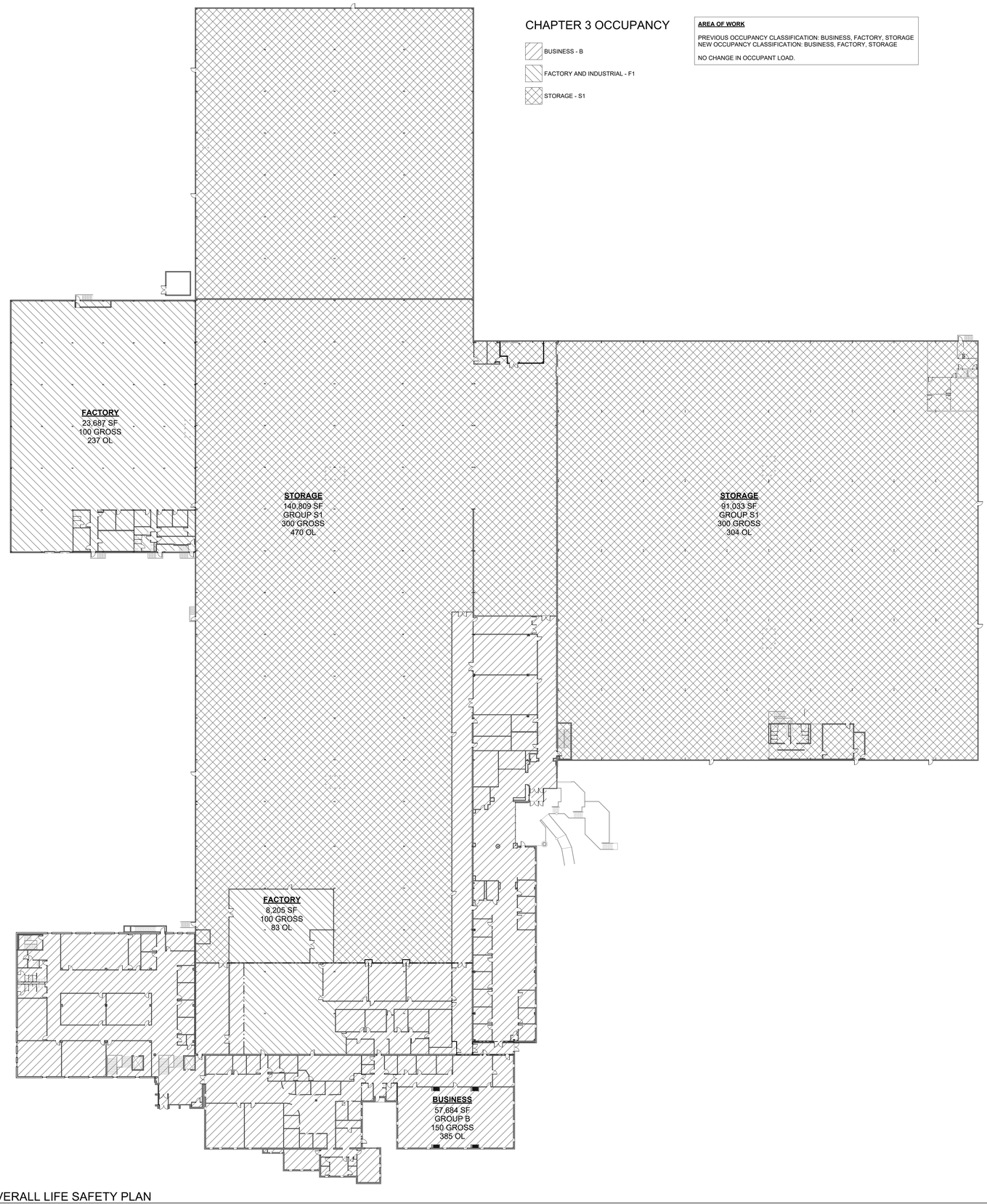
CHAPTER 3 OCCUPANCY

- BUSINESS - B
- FACTORY AND INDUSTRIAL - F1
- STORAGE - S1

AREA OF WORK

PREVIOUS OCCUPANCY CLASSIFICATION: BUSINESS, FACTORY, STORAGE
NEW OCCUPANCY CLASSIFICATION: BUSINESS, FACTORY, STORAGE

NO CHANGE IN OCCUPANT LOAD.



1 LS100 OVERALL LIFE SAFETY PLAN
1/32" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"

LIFE SAFETY LEGEND

NAME
150 SF
GROUP A2
GROSS/NET
Occupants OL
— OCCUPANCY TAG

FEC TYPE ABC — FIRE EXTINGUISHER IN CABINET

FE TYPE ABC — FIRE EXTINGUISHER

— EXIT PATH AND DIRECTION

1 — EXIT PATH NUMBER

— EXIT SIGN

— 2 HOUR RATED WALL

2023 Edition

TABLE 3E CODE INFORMATION FOR ADDITIONS, ALTERATIONS, OR CHANGE OF OCCUPANCY TO AN EXISTING STRUCTURE

TYPE OF PROJECT:
☒ Alteration (IEBC Chaps. 7, 8 &9) ☐ Addition (IEBC Chap. 11) ☐ Change of Occupancy (IEBC Chap. 10)

METHOD OF COMPLIANCE: (Check only one Option and all items that apply under that Option.)

☐ **Option 1: Prescriptive Compliance Method (IEBC Chapter 5)**

☒ **Option 2: Work Area Compliance Method (IEBC Chaps. 6-12)**
- ☐ Alteration Level 1, minor including reroofing (IEBC Chap. 7)
- ☒ Alteration Level 2, reconfigurations of space (IEBC Chap. 8)
- ☐ Alteration Level 3, work area exceeds 50% (IEBC Chap. 9)

Aggregate area of building: 359,600 SF
Work area: 12,969 SF

☐ **Option 3: Performance Compliance Method (IEBC Chap. 13)**

Original Building Code and Edition Applicable at time of Construction: N/A

Existing Sprinkler System?	☒ Yes	☐ No
Existing Fire Alarm System?	☐ Manual	☒ Auto
Seismic Evaluation Required?	☐ Yes	☒ No
Major Facility Project? (See §48-52-810(10)(a))	☐ Yes	☒ No
Change of Occupancy:	☐ Yes	☒ No

Existing Occupancy Classification(s):
New Occupancy Classification(s):

Historic Building (IEBC Chapter 12): ☐ Yes ☒ No
☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

2023 Edition

TABLE 10 MECHANICAL INFORMATION

AIR COMFORT SYSTEMS
Overall Thermal Transfer Value (OTTV): 0.173 BTU/(HR x °F x SF)
Building Cooling Load: 539 SF / Ton
Building Heating Load: 18.8 BTU/(HR x SF)

OTHER LOADING FEATURES
Glass: U Factor: N/A Window to wall ratio: 0
Insulation Values: Roof: R-25 Exterior Walls: R-13

Outside Air minimum while occupied: 15,411 CFM 262 Occupants

MECHANCIAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT
Briefly describe mechanical system: AIR ROTATION UNITS WITH CHILLED WATER COILS SERVED FROM EXISTING CHILLER AND HOT WATER COILS SERVED FROM NEW BOILER PLANT.

NOTE: THIS BUILDING RECEIVES TWO SEPARATE ELECTRICAL SERVICES LABELED AS RED AND BLUE. INFORMATION HAS BEEN PROVIDED FOR BOTH SERVICES. 2023 Edition

TABLE 11 - ELECTRICAL INFORMATION - RED SERVICE

SERVICE TRANSFORMER: ☒ By Utility Company ☐ By Agency If by Agency: ____ KVA Primary ____ Voltage/Phase

ELECTRICAL SERVICE INFORMATION:

Service Voltage/Phase:	480Y/277 V/ 3-PHASE	Amperes:	4000
Service Entrance Conductors Size:	600 KCMIL	Quantity per Phase:	10
Total Connected Load:	537 KVA	Estimated Demand Factor:	PEAK DEMAND
Estimated Maximum Demand:	645.8 Amperes		
Available Fault Current in Symmetrical Amperes:	32945 Amperes		
Interrupting Capacity of Service Overcurrent Device:	65000 Amperes		

Grounding Electrode System Components:
- ☐ Metal In-ground Support Structure(s)
- ☐ Ground Ring
- ☐ Plate Electrodes
- ☐ Other Listed Electrodes, please specify ____
- ☒ Metal Underground Water Pipe
- ☐ Concrete-Enclosed Electrode
- ☒ Rod and Pipe Electrodes
- ☐ Other Local Metal Underground Systems or Structures

EMERGENCY SERVICE INFORMATION:
Generator 1: ☐ Emergency ☐ Standby ☐ Op. Standby ____ Voltage/Phase ____ Fuel ____ KVA
Generator 2: ☐ Emergency ☐ Standby ☐ Op. Standby ☐ Integral Battery ____ Fuel ____ KVA
Exit/Emergency Egress Lighting Backup Power ☒ Battery ☐ Generator
Fire Alarm System: ☐ Manual ☐ Auto ☐ Manual/Auto ☒ Addressable Class: ☐ A ☐ B ☐ ____ (Other)
Fire Alarm System Method of Communication to Monitoring Station (please specify): EXISTING, OUTSIDE SCOPE OF WORK.
Fire Alarm Pathway Survivability: ☐ Level 0 ☐ Level 1 ☐ Level 2 ☐ Level 3
Carbon Monoxide Detection Required? ☐ Yes ☒ No
Carbon Dioxide Detection Required? ☐ Yes ☒ No
Emergency Responder Radio Coverage Enhancement Required? ☐ Yes ☒ No

LIGHTNING PROTECTION SYSTEM PROVIDED: ☐ Yes ☒ No

NOTE: THIS BUILDING RECEIVES TWO SEPARATE ELECTRICAL SERVICES LABELED AS RED AND BLUE. INFORMATION HAS BEEN PROVIDED FOR BOTH SERVICES. 2023 Edition

TABLE 11 - ELECTRICAL INFORMATION - BLUE SERVICE

SERVICE TRANSFORMER: ☒ By Utility Company ☐ By Agency If by Agency: ____ KVA Primary ____ Voltage/Phase

ELECTRICAL SERVICE INFORMATION:

Service Voltage/Phase:	480Y/277 V/ 3-PHASE	Amperes:	2000
Service Entrance Conductors Size:	600 KCMIL	Quantity per Phase:	5
Total Connected Load:	989.39 KVA	Estimated Demand Factor:	PEAK DEMAND
Estimated Maximum Demand:	1190 Amperes		
Available Fault Current in Symmetrical Amperes:	44174 Amperes		
Interrupting Capacity of Service Overcurrent Device:	50000 Amperes		

Grounding Electrode System Components:
- ☐ Metal In-ground Support Structure(s)
- ☐ Ground Ring
- ☐ Plate Electrodes
- ☐ Other Listed Electrodes, please specify ____
- ☒ Metal Underground Water Pipe
- ☐ Concrete-Enclosed Electrode
- ☒ Rod and Pipe Electrodes
- ☐ Other Local Metal Underground Systems or Structures

EMERGENCY SERVICE INFORMATION:
Generator 1: ☒ Emergency ☐ Standby ☐ Op. Standby 480/3 Voltage/Phase DIESEL Fuel 125 KVA
Generator 2: ☐ Emergency ☐ Standby ☐ Op. Standby ☐ Integral Battery ____ Fuel ____ KVA
Exit/Emergency Egress Lighting Backup Power ☒ Battery ☒ Generator
Fire Alarm System: ☐ Manual ☐ Auto ☐ Manual/Auto ☒ Addressable Class: ☐ A ☐ B ☐ ____ (Other)
Fire Alarm System Method of Communication to Monitoring Station (please specify): EXISTING, OUTSIDE SCOPE OF WORK.
Fire Alarm Pathway Survivability: ☒ Level 0 ☐ Level 1 ☐ Level 2 ☐ Level 3
Carbon Monoxide Detection Required? ☐ Yes ☒ No
Carbon Dioxide Detection Required? ☐ Yes ☒ No
Emergency Responder Radio Coverage Enhancement Required? ☐ Yes ☒ No

LIGHTNING PROTECTION SYSTEM PROVIDED: ☐ Yes ☒ No

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STATE OF SOUTH CAROLINA — LAWRENCE A. DEVITA — 7297 — GREENVILLE, SC — REGISTERED ARCHITECT
12 JAN 2026

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 E MAIN ST,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DP3 Project No. 25177
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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DRAWING NAME
LIFE SAFETY PLAN & CODE REVIEW

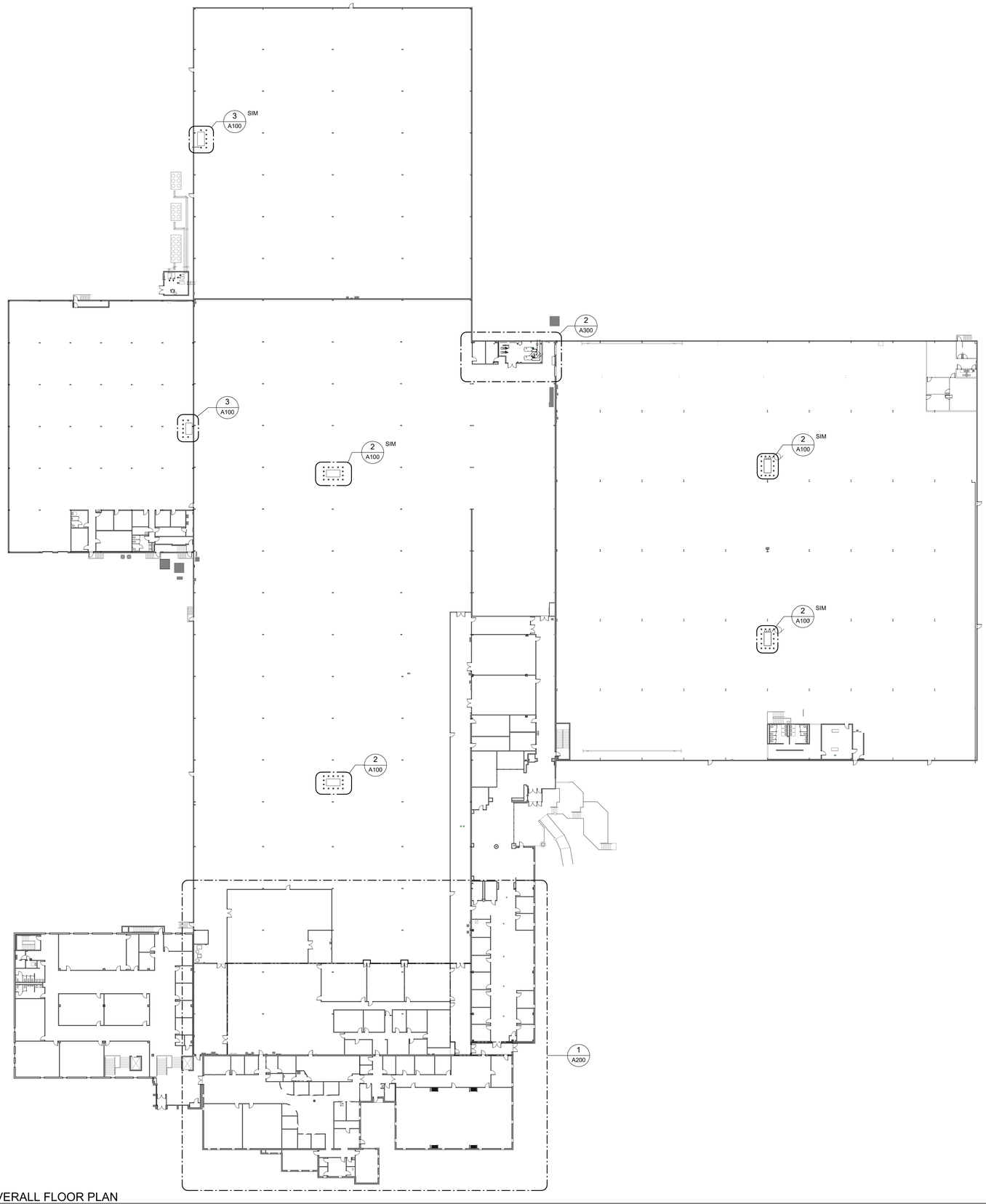
DRAWING NO.
LS100

Drawn By: ALS Checked By: KTP

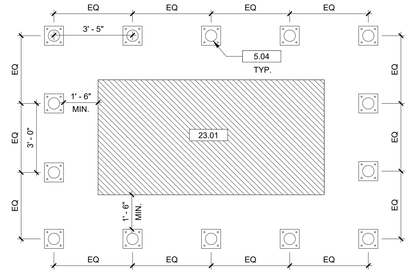
DRAWING NOTES

5.04 6.5 INCH DIAMETER PAINTED BOLLARD, 48 INCHES TALL. BOLTED TO FLOOR. BASIS OF DESIGN: ULINE H-11154 HEAVY DUTY SAFETY BOLLARD.

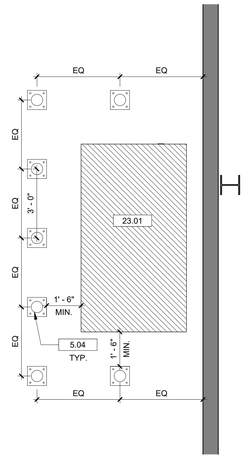
23.01 MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.



1 A100 OVERALL FLOOR PLAN
1/32" = 1'-0"

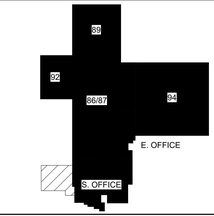


2 A100 ENLARGED PLAN - ARU BOLLARD LAYOUT. TYP.
3/8" = 1'-0"



3 A100 ENLARGED PLAN - ARU BOLLARD LAYOUT AT WALL. TYP.
3/8" = 1'-0"

KEY PLAN



(BAR GRAPHIC IS 4" AT FULL SCALE)

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STATE OF SOUTH CAROLINA — JAMES MICHAEL DEVITA — GREENVILLE, SC 7297 — REGISTERED ARCHITECT

12 JAN 2026

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 E MAIN ST,
DUNCAN, SC 29334

State Project No.	H59-6315-JM
DP3 Project No.	25177
Issue Date:	12 JANUARY 2026

REVISIONS

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DRAWING NAME
OVERALL FLOOR PLAN

DRAWING NO.
A100

Drawn By: ALS Checked By: KTP

1 A200 ENLARGED DEMOLITION & NEW WORK PLAN - OFFICE AREA

1/8" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

REFLECTED CEILING PLAN NOTES

A. ALL CEILING MOUNTED COMPONENTS ARE REPRESENTATIVE. EXISTING CEILING COMPONENTS ARE TO BE VERIFIED IN FIELD PRIOR TO GRID REMOVAL AND RE-INSTALLED IN THEIR EXACT LOCATIONS UNLESS NOTED OTHERWISE.

B. COORDINATE ALL HVAC MECHANICAL DEVICES WITH MECHANICAL DRAWINGS.

C. IF AS-BUILT CONDITIONS DEMAND THAT A CEILING BOARD LARGER THAN 2'-0" IN ANY DIMENSION BE USED IN THE PERIMETER BOARDS OF A TYPICAL 2'X2' GRID, THEN THAT BOARD SHALL BE CUT FROM A 2'X4' BOARD. A DOUBLE WALL ANGLE SHALL NOT BE USED IN THE CEILING GRID SYSTEM.

D. CEILING SUSPENSION SYSTEM TO MEET SEISMIC REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE CURRENT EDITION.

E. LOCATE ALL TRACK & RECESSED FIXTURES AT THE CENTERLINE OF TILE UNLESS NOTED OTHERWISE. INSTALL ALL ELECTRICAL SYSTEM COMPONENTS WITHOUT INTERFERING WITH DUCTS, PIPES, BEAMS, ETC. LOCATE LIGHT FIXTURES SYMMETRICALLY, AS DIMENSIONED, OR AS INDICATED ON THE REFLECTED CEILING PLANS. IN THE EVENT OF CONFLICT, THE ARCHITECT WILL DECIDE WHICH ITEM TO RELOCATE WITHOUT REGARD TO WHICH WAS INSTALLED FIRST.

DRAWING NOTES

9.01 PROTECT ALL SURFACES UNDER AREA OF WORK DURING CONSTRUCTION. TOUCH UP, PAINT, AND REPAIR ALL FINISHES DAMAGED DURING CONSTRUCTION. TYP.

9.04 PATCH AND REPAIR WALL WHERE SIDEWALL RETURNS WERE REMOVED. PAINT.

50.01 ALL EXISTING LIGHT FIXTURES, CAMERAS, CLOCKS, SPEAKERS, SENSORS, WIRELESS ACCESS POINTS, AND OTHER NON-HVAC DEVICES TO REMAIN. VERIFY ALL OTHER ITEMS WITH ARCHITECT PRIOR TO THEIR REMOVAL. PROTECT DURING CONSTRUCTION. TYP.

50.04 EXISTING OPERABLE WALL TRACK TO REMAIN.

50.05 BATT INSULATION EXISTS ABOVE CEILING TILES. SALVAGE 50% FOR REUSE AND INSTALL 50% NEW OVER REINSTALLED CEILING TILES.

50.07 ALL EXISTING CEILING HEIGHTS TO BE VERIFIED IN EACH ROOM. NEW GRID TO MATCH EXISTING HEIGHT.

50.08 CEILING ACCESS PANEL.

50.09 TIE IN NEW GRID TO EXISTING.

50.10 EXISTING GYPSUM BOARD CEILING LOCATED ABOVE CEILING GRID. VERIFY HEIGHT IN FIELD.

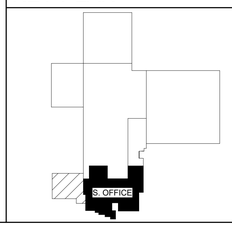
90.07 EXISTING CEILING GRID TO BE REMOVED FOR ACCESS TO MECHANICAL WORK. CEILING TILES TO BE SALVAGED FOR REUSE IN NEW GRID. REFER TO LEGEND.

REFLECTED CEILING PLAN LEGEND

- EXISTING CEILING GRID AND TILES TO BE REMOVED. 50% OF EXISTING CEILING TILES TO BE SALVAGED FOR REUSE. PROVIDE NEW CEILING GRID AND 50% NEW CEILING TILES TO MATCH EXISTING. VERIFY IN FIELD.
- LIGHT FIXTURE TO REMAIN.
- RETURN DIFFUSER. REFER TO MECHANICAL DRAWINGS.
- SUPPLY DIFFUSER. REFER TO MECHANICAL DRAWINGS.
- CEILING MOUNTED CLOCK.
- WIRELESS ACCESS POINT TO REMAIN.
- SPRINKLER HEAD TO REMAIN.
- CEILING MOUNTED SPEAKER TO REMAIN.
- OCCUPANCY SENSOR.
- FIRE ALARM STROBE TO REMAIN.
- 2 HOUR RATED WALL

NOTE: EXACT LOCATIONS OF CEILING AND MEP COMPONENTS ARE TO BE VERIFIED IN FIELD. REFER TO MEP DRAWINGS FOR ALL CEILING MOUNTED COMPONENTS TO BE REMOVED. ALL CEILING MOUNTED COMPONENTS TO REMAIN SHALL BE REINSTALLED OR REPLACED IN THE NEW CEILING GRID IN ITS EXISTING CONDITION.

KEY PLAN



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12 JAN 2026

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15 South Main Street, Suite 400
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www.DP3architects.com

CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 E MAIN ST,
DUNCAN, SC 29334

State Project No.	H59-6315-JM
DP3 Project No.	25177
Issue Date:	12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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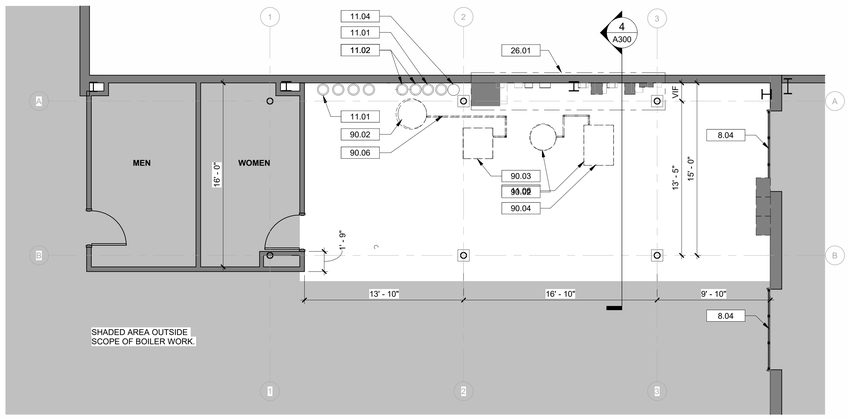
DRAWING NAME

ENLARGED DEMOLITION & NEW WORK PLAN - OFFICE AREA

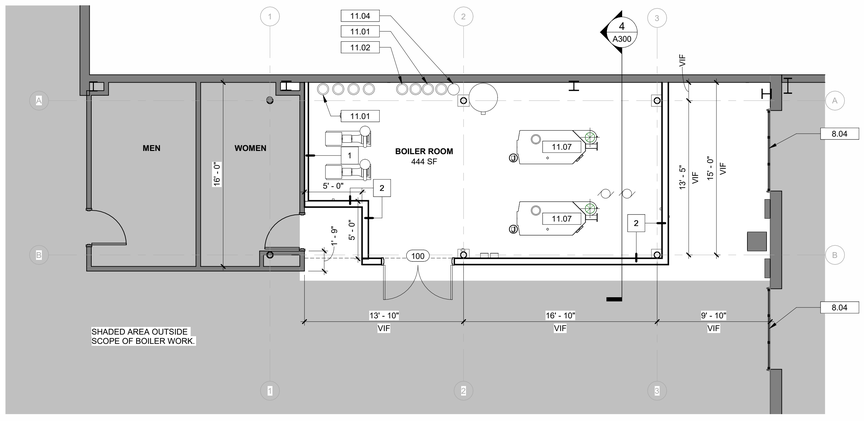
DRAWING NO.

A200

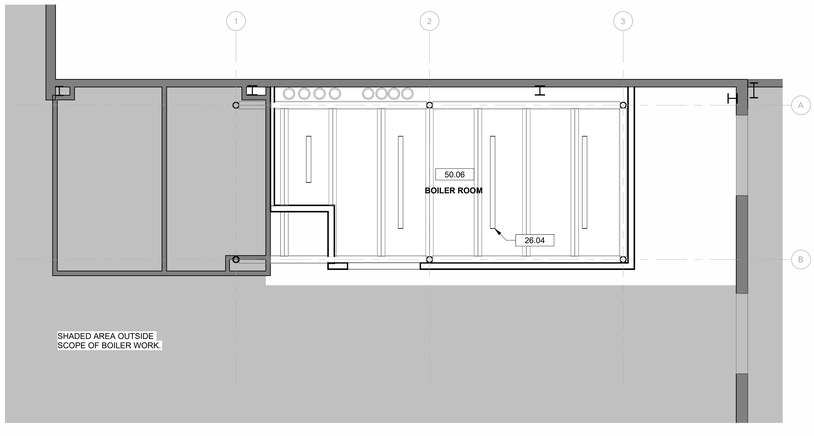
Drawn By: ALS Checked By: KTP



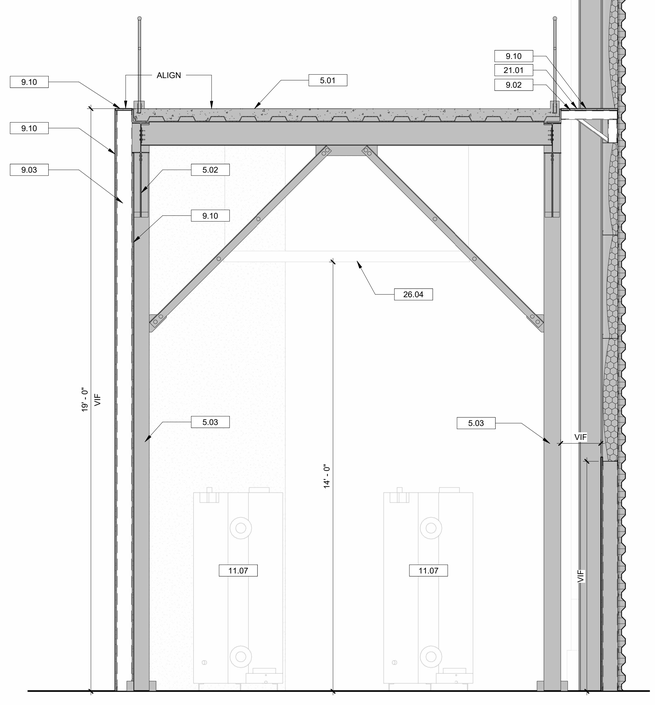
1 ENLARGED DEMOLITION PLAN - BOILER ROOM
A300 3/16" = 1'-0"



2 ENLARGED NEW WORK PLAN - BOILER ROOM
A300 3/16" = 1'-0"



3 ENLARGED RCP BOILER ROOM
A300 3/16" = 1'-0"



4 SECTION - BOILER ROOM
A300 1/2" = 1'-0"

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR		WALLS				CEILING
		FINISH	BASE	NORTH	SOUTH	WEST	EAST	
100	BOILER ROOM	ETR	MATCH EXISTING	ETR	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	ETR

DOOR SCHEDULE

MARK	LOCATION	DOOR				HARDWARE	FRAME	
		TYPE	HEIGHT	WIDTH	MATERIAL	SET	TYPE	MATERIAL
100	BOILER ROOM	D1	8' - 6"	6' - 0"	HW	1	DF1	HW

INTERIOR FINISH LEGEND

ACOUSTICAL CEILING TILE

ACT1 COMMENTS: VERIFY EXISTING GRID IN FIELD. MATCH EXISTING. EXISTING CEILING TILES TO BE REUSED. REPLACE ALL DAMAGED TILES WITH NEW.

PAINT

P1 MFTG: SHERWIN WILLIAMS
COLOR: MATCH EXISTING COLOR ABOVE GRAY STRIPING ON ADJACENT WALL.
FINISH: EG-SHELL
COMMENT: CONFIRM EXISTING FINISH WITH OWNER PRIOR TO ORDERING.

P2 MFTG: SHERWIN WILLIAMS
COLOR: MATCH EXISTING GRAY ACCENT STRIPE ON ADJACENT WALL.
FINISH: EG-SHELL; SEMI GLOSS (DOOR FRAMES)
COMMENT: CONFIRM EXISTING FINISH WITH OWNER PRIOR TO ORDERING.

RESILIENT BASE

RB1 MFTG: JOHNSONITE
PRODUCT: BASE TO MATCH EXISTING.
STYLE: MATCH EXISTING ADJACENT WALL.
COLOR: MATCH EXISTING ADJACENT WALL.
COMMENTS: MITER CUT INSIDE AND OUTSIDE CORNERS. INSTALL IN CONTINUOUS SECTIONS ALONG WALLS.

HARDWARE SCHEDULE

QUANTITY	ITEM
HARDWARE SET 1 BOILER ROOM	
3	BALL BEARING BUTTS
1	STORAGE FUNCTION LOCKSET
1	CLOSER
1	KICK PLATE
1	WALL STOP
3	SILENCERS

DRAWING NOTES

5.01 EXISTING MEZZANINE COMPOSITE DECKING.

5.02 EXISTING MEZZANINE ANGLE BRACING.

5.03 EXISTING 6.5 INCH STEEL PIPE COLUMN.

8.04 EXISTING OVERHEAD DOOR.

9.02 3 5/8 INCH METAL STUD FRAMING SYSTEM.

9.03 6 INCH METAL STUD FRAMING SYSTEM.

9.10 5/8 INCH GYPSUM WALL BOARD.

11.01 EXISTING PIPING FOR FUTURE CHILLER TIE IN. REFER TO MECHANICAL DRAWINGS. PROTECT DURING CONSTRUCTION.

11.02 EXISTING IN USE CHILLER PIPING. REFER TO MECHANICAL DRAWINGS. PROTECT DURING CONSTRUCTION.

11.04 EXISTING OIL AND WATER SEPARATOR TO BE RELOCATED. REFER TO MECHANICAL DRAWINGS.

11.06 EXISTING AIR COMPRESSOR TO BE RELOCATED. REFER TO MECHANICAL DRAWINGS.

11.07 NEW BOILER. REFER TO MECHANICAL DRAWINGS.

21.01 ADEQUATE DRAFTSTOPPING TO BE PROVIDED. ENSURE ALL PENETRATIONS ARE SEALED TO CREATE A SMOKE FREE BARRIER.

26.01 ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DRAWINGS.

26.04 SUSPENDED LINEAR DOWNLIGHT. REFER TO ELECTRICAL DRAWINGS.

50.06 EXPOSED CEILING OPEN TO DECK.

90.02 COMPRESSED AIR STORAGE TANK TO BE RELOCATED. REFER TO MECHANICAL DRAWINGS.

90.03 COMPRESSED AIR DRYER TO BE RELOCATED. REFER TO MECHANICAL DRAWINGS.

90.04 AIR COMPRESSOR. REFER TO MECHANICAL DRAWINGS.

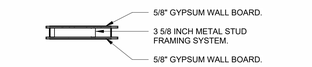
90.06 ALL PIPING ASSOCIATED WITH THE AIR COMPRESSOR SYSTEM TO BE REMOVED AND RELOCATED. REFER TO MECHANICAL DRAWINGS.

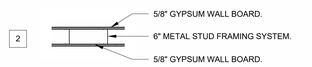
WALL TYPE LEGEND

LOW
TO EXISTING WALL. VERIFY HEIGHT IN FIELD.

1

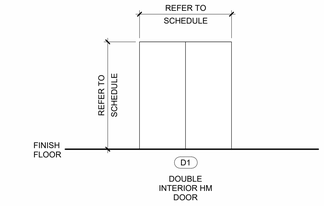
HIGH
TO MEZZANINE DECK.





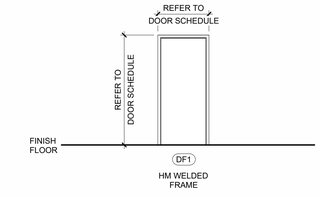
2

NOTE: ALL WALLS THAT ATTACH TO THE UNDERSIDE OF THE STEEL MEZZANINE TO RECEIVE A SLOTTED DEFLECTION TRACK.



DOUBLE INTERIOR HM DOOR

DOOR TYPE LEGEND



HM WELDED FRAME

FRAME TYPE LEGEND

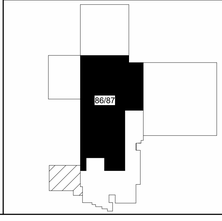
REFLECTED CEILING PLAN LEGEND

OPEN TO DECK

8' SUSPENDED LINEAR DOWNLIGHT. REFER TO ELECTRICAL DRAWINGS.

4' SUSPENDED LINEAR DOWNLIGHT. REFER TO ELECTRICAL DRAWINGS.

KEY PLAN



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12 JAN 2026

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 E MAIN ST,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DP3 Project No. 25177
Issue Date: 12 JANUARY 2026

REVISIONS

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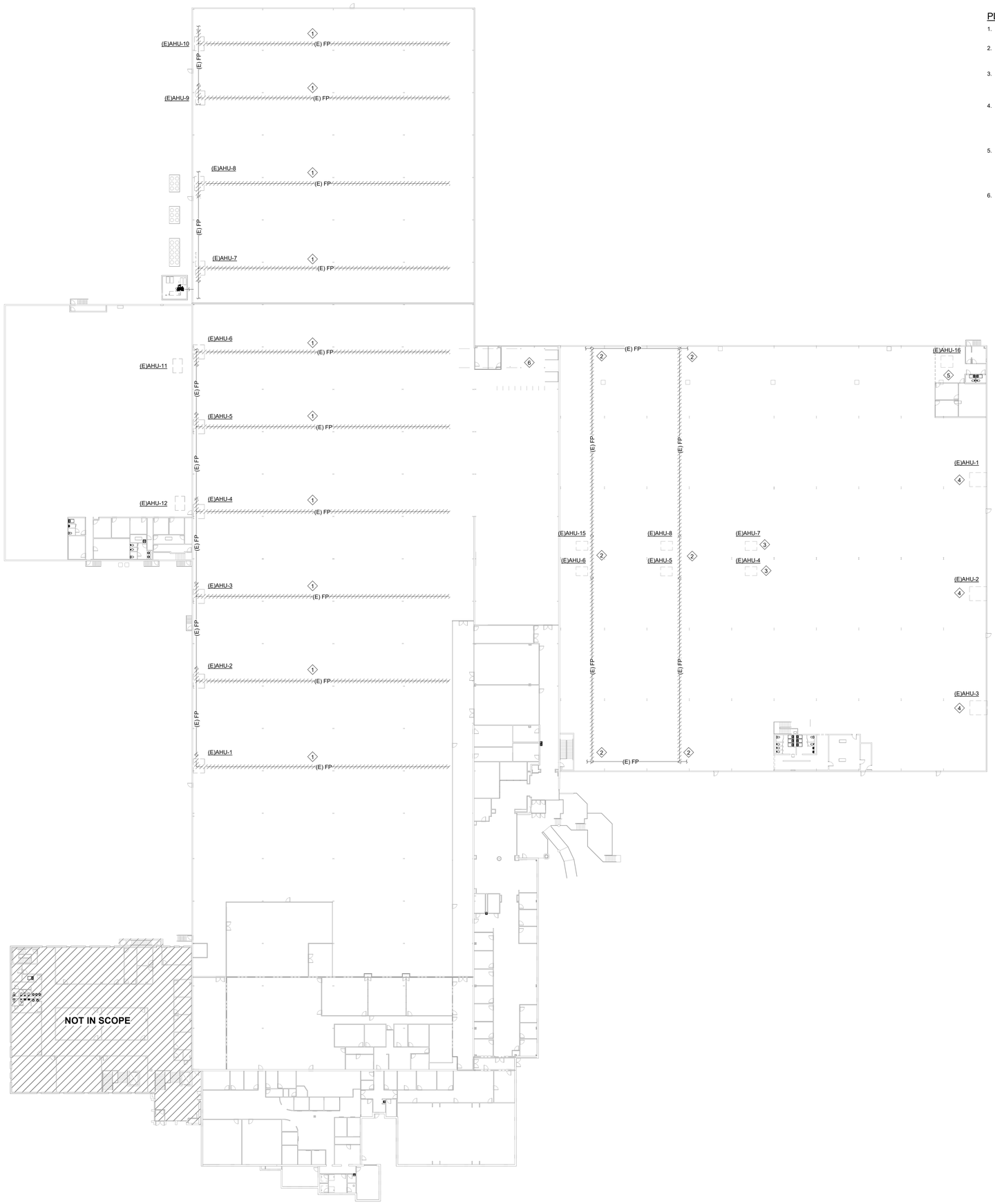
DRAWING NAME
ENLARGED DEMOLITON AND NEW WORK PLANS - BOILER ROOM

DRAWING NO.
A300

Drawn By: ALS Checked By: KTP

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"



PLAN KEYED NOTES:

1. REMOVE SPRINKLER PIPING AND HEADS BELOW AIR HANDLER AND DUCTWORK BACK TO BRANCH AND CAP.
2. REMOVE SPRINKLER PIPING AND HEADS BELOW AIR HANDLERS AND DUCTWORK BACK TO MAIN ON BOTH SIDES OF 94 WAREHOUSE AND CAP.
3. REMOVE SPRINKLER PIPING AND HEADS BELOW AIR HANDLER BACK TO BRANCH AND CAP. HEADS ARE SERVED BY A DROP OFF OF OVERHEAD SPRINKLER GRID. ENSURE THAT OVERHEAD COVERAGE FOR THE SPACE IS MAINTAINED.
4. REMOVE SPRINKLER HEADS AND ASSOCIATED PIPING BELOW AIR HANDLER AND DUCTWORK UP TO BRANCH AND CAP. HEADS ARE SERVED BY INDIVIDUAL DROPS OFF OF OVERHEAD SPRINKLER GRID. ENSURE THAT COVERAGE FOR THE SPACE IS MAINTAINED.
   APPROX. SPRINKLER HEAD QTY: 15
5. REMOVE SPRINKLER HEADS AND ASSOCIATED PIPING BELOW AIR HANDLER AND DUCTWORK UP TO BRANCH AND CAP. HEADS ARE SERVED BY INDIVIDUAL DROPS OFF OF OVERHEAD SPRINKLER GRID. ENSURE THAT COVERAGE FOR THE SPACE IS MAINTAINED.
   APPROX. SPRINKLER HEAD QTY: 11
6. VERIFY THAT THE TEMPERATURE RATING OF THE SPRINKLER HEADS BELOW THE MEZZANINE IN THIS AREA IS 286°F OR GREATER. REPLACE WITH HEADS OF THIS RATING IF THEY ARE NOT.

1 FP100 FIRE PROTECTION DEMOLITION PLAN
1" = 30'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

SOUTH CAROLINA
DEVITA & ASSOCIATES, INC.
No. C00415
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CONSULTANT

PROJECT INFORMATION:

SCC
SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

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DRAWING NAME
FIRE PROTECTION DEMOLITION PLAN

DRAWING NO.
FP100

Drawn By: ASE Checked By: CJC

HVAC SYMBOLS AND CONVENTIONS

SYMBOL	DESCRIPTION
	TURNING VANES
	MANUAL VOLUME DAMPER
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
SD	SMOKE DETECTOR
M	MOTOR OPERATED DAMPER
	DUCTWORK TEMPERATURE SENSOR
	DUCTWORK HUMIDITY SENSOR
	DUCTWORK STATIC PRESSURE SENSOR
	SUPPLY DUCT (UP/DOWN)
	RETURN DUCT (UP/DOWN)
	EXHAUST DUCT (UP/DOWN)
	FLEX DUCT
	HUMIDISTAT/HUMIDITY SENSOR
	THERMOSTAT
	SPACE TEMPERATURE SENSOR
	CARBON DIOXIDE SENSOR
	UNDERCUT DOOR
	RETURN / EXHAUST AIRFLOW DIRECTION
	SUPPLY AIRFLOW DIRECTION
DP	PIPING DIFFERENTIAL PRESSURE SENSOR
	POINT OF CONNECTION NEW TO EXISTING
	SUPPLY DIFFUSER
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	LINEAR SLOT DIFFUSER
	MANUAL BALANCING VALVE
	BACKFLOW PREVENTER
	CHECK VALVE
	CONTROL VALVE (2-WAY)
	CONTROL VALVE (3-WAY)
	PRESSURE REDUCING VALVE
	REMOVE TO POINT AND CAP
	REMOVE TO POINT FOR RECONNECTION
	SHUT OFF VALVE (REFER TO PLANS AND SPEFICIATIONS FOR TYPE)
	STEAM TRAP
	Y-STRAINER WITH BLOW DOWN AND VALVE
	UNION
	PIPE BRANCH TAKE-OFF FROM BOTTOM
	PIPE BRANCH TAKE-OFF FROM TOP
	PIPE DROP
	PIPE RISE
	FLANGED CONNECTION
CD	CONDENSATE DRAIN PIPING

HVAC SYMBOLS AND CONVENTIONS

SYMBOL	DESCRIPTION
	CONDENSER WATER RETURN PIPING
	CONDENSER WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	CHILLED WATER SUPPLY PIPING
D	DRAIN PIPING
FW	FEEDWATER PIPING
G(5PSI)	NATURAL GAS PIPING - 5 PSI
G	NATURAL GAS PIPING - LOW PRESSURE
	FEEDWATER RECIRC PIPING
GR	CONDENSER GLYCOL RETURN PIPING
GS	CONDENSER GLYCOL SUPPLY PIPING
H/C R	HEATING & CHILLED WATER RETURN PIPING
H/C S	HEATING & CHILLED WATER SUPPLY PIPING
	HEATING WATER RETURN PIPING
HWS	HEATING WATER SUPPLY PIPING
	MAKEUP WATER
RG	REFRIGERANT GAS PIPING
RHGB	REFRIGERANT HOT GAS BYPASS PIPING
RL	REFRIGERANT LIQUID PIPING
RS	REFRIGERANT SUCTION PIPING
RV	REFRIGERANT VENT PIPING
SW	SOFTENED WATER PIPING

EQUIPMENT TAGGING LEGEND

EQUIPMENT DESIGNATION	TAGGING DESCRIPTION
AIR DEVICES - S,R,E,T	EQUIPMENT DESIGNATION TYPE X-X XXX CFM
EQUIPMENT DESIGNATION - AHU, AC, GF, RTU, VAV, EDH, EUH, GUH, PTAC	EQUIPMENT DESIGNATION NOTE: FOR EXISTING EQUIPMENT, "---" INDICATES TAG NO DISCERNABLE EXISTING TAG XXX-X PLAN DESIGNATION
EQUIPMENT RELABELING DESIGNATION - AHU, AC, GF, RTU, VAV, EDH, EUH, GUH, PTAC	NEW EQUIPMENT TAG XXX-X (YYY-Y) EXISTING EQUIPMENT TAG ("---" INDICATES TAG NO DISCERNABLE EXISITING TAG)
VFD	SERVICING EQUIPMENT MARK VFD XX XXXX SPECIFIC COMPONENT DESIGNATION

AIR SYSTEM SPECIFIC ABBREVIATIONS

AC	AIR CONDITIONING	HV	HEATING AND VENTILATING UNIT
ACC	AIR COOLED CHILLER	IH	INTAKE HOOD
ACCU	AIR COOLED CONDENSING UNIT	LAT	LEAVING AIR TEMPERATURE
ACD	AUTOMATIC CONTROL DAMPER	LUVR	LOUVER
ACU	AIR CONDITIONING UNIT	LUVD	LOUVERED DOOR
AHU	AIR HANDLING UNIT	OA	OUTSIDE AIR
ALD	ACOUSTICALLY LINED DUCT	OAI	OUTSIDE AIR INTAKE
ATD	AIR TERMINAL DEVICE	OBD	OPPOSED BLADE DAMPER
BDD	BACKDRAFT DAMPER	OED	OPENED END DUCT
CC	COOLING COIL	(R)	RELOCATED
CD	CEILING DIFFUSER	RA	RETURN AIR
CFM	CUBIC FEET PER MINUTE	RD	REFRIGERANT DISCHARGE
CG	CEILING GRILLE	RF	RETURN FAN
DIFF	DIFFUSER	RG	RETURN GRILLE
DX	DIRECT EXPANSION	RL	REFRIGERANT LIQUID
(E)	EXISTING	RLF	RELIEF
EDH	ELECTRIC DUCT HEATER	RR	RETURN REGISTER
EF	EXHAUST FAN	RS	REFRIGERANT SUCTION
EG	EXHAUST GRILLE	RTU	ROOFTOP UNIT
ER	EXHAUST REGISTER	SA	SUPPLY AIR
ERHC	ELECTRIC REHEAT COIL	SD	SMOKE DETECTOR
ESP	EXTERNAL STATIC PRESSURE	SD	SMOKE DAMPER
EUH	ELECTRIC UNIT HEATER	SF	SUPPLY FAN
F	FAN	SG	SUPPLY GRILLE
FA	FREE AREA	SGD	SLIDE GATE DAMPER
FC	FORWARD CURVE	SM	SHEET METAL
FCU	FAN COIL UNIT	SP	STATIC PRESSURE
FD	FIRE DAMPER (W/ACCESS DOOR)	SR	SUPPLY REGISTER
FLTR	FILTER	TE	TOILET EXHAUST
FO	FLAT OVAL	TF	TRANSFER FAN
FPI	FINS PER INCH	TG	TRANSFER GRILLE
FSD	FIRE SMOKE DAMPER	TR	TRANSFER
GDH	GAS DUCT HEATER	TSP	TOTAL STATIC PRESSURE
GE	GENERAL EXHAUST	UCD	UNDERCUT DOOR
GF	GAS FURNACE	VAV	VARIABLE AIR VOLUME
GH	GRAVITY HOOD	VD	VOLUME DAMPER
GUH	GAS UNIT HEATER	VFD	VARIABLE FREQUENCY DRIVE
HC	HEATING COIL	WMS	WIRE MESH SCREEN

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M000	MECHANICAL LEGENDS
M001	MECHANICAL SCHEDULES
M002	MECHANICAL SCHEDULES
M003	MECHANICAL DETAILS
M004	MECHANICAL DETAILS
M100	MECHANICAL OVERALL DEMOLITION PLAN
M101	MECHANICAL SOUTH OFFICE DEMOLITION PLAN
M102	MECHANICAL 86/87 AREA DEMOLITION PLAN
M103	MECHANICAL 89 AREA DEMOLITION PLAN
M104	MECHANICAL 92 AREA DEMOLITION PLAN
M105	MECHANICAL 94 AREA DEMOLITION PLAN
M106	MECHANICAL ROOF DEMOLITION PLAN
M200	MECHANICAL OVERALL NEW WORK PLAN
M201	MECHANICAL SOUTH OFFICE NEW WORK PLAN
M202	MECHANICAL 86/87 AREA NEW WORK PLAN
M203	MECHANICAL 89 AREA NEW WORK PLAN
M204	MECHANICAL 92 AREA NEW WORK PLAN
M205	MECHANICAL 94 AREA NEW WORK PLAN
M206	MECHANICAL ROOF PLAN
M300	MECHANICAL ENLARGED NEW BOILER AREA PLANS
M301	MECHANICAL ENLARGED EXISTING BOILER AREA PLANS
M400	MECHANICAL POINTS LIST

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3"

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA — No. 35953 — REGISTERED — PROFESSIONAL ENGINEER — CARSON CONLEY — 01/19/26

SEALS

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DRAWING NAME
MECHANICAL LEGENDS

DRAWING NO.
M000

Drawn By: ASE Checked By: CJC

FAN SCHEDULE

MARK	MANUFACTURER MODEL	AREA SERVED	SERVICE	TYPE	CFM	STATIC PRESSURE (IN WG)	NOMINAL RPM	DRIVE TYPE	ELECTRICAL DATA		MOTOR HP	CONTROL	SONES	WEIGHT (LBS)	NOTES
									VOLTAGE	PHASE					
SF-1	GREENHECK SQ-20-M2-VG	86/87 WAREHOUSE	OUTSIDE AIR	INLINE	6500	0.5	1108	DIRECT	460	3	3	SPEED CONTROLLER	7.5	220	1-8
SF-2	GREENHECK SQ-12-M1-VG	89 WAREHOUSE	OUTSIDE AIR	INLINE	2550	0.5	1867	DIRECT	460	3	2	SPEED CONTROLLER	7.6	84	1-8
SF-3	GREENHECK SQ-12-M2-VG	92 WAREHOUSE	OUTSIDE AIR	INLINE	1450	0.5	1404	DIRECT	208	1	1/2	SPEED CONTROLLER	6.1	67	1-8
SF-4	GREENHECK SQ-16-M2-VG	94 WAREHOUSE	OUTSIDE AIR	INLINE	5400	0.75	1758	DIRECT	460	3	3	SPEED CONTROLLER	9.3	173	1-8

NOTES:
1. PROVIDE UNIT WITH GRAVITY BACKDRAFT DAMPER.
2. PROVIDE VIBRATION ISOLATION.
3. UNIT SHALL BE UL LISTED AND AMCA CERTIFIED.
4. PROVIDE FACTORY MOUNTED DISCONNECT.
5. PROVIDE SPEED CONTROL.
6. PROVIDE MOTOR WITH THERMAL OVERLOAD PROTECTION.
7. PROVIDE INSULATED HOUSING FOR SOUND ATTENUATION.
8. APPROVED EQUALS INCLUDE LOREN-COOK SQN AND TWIN CITY FAN DSI.

GRAVITY HOOD SCHEDULE

MARK	UNIT SERVED	MANUFACTURER MODEL	TYPE	THROAT	CFM	MAX PRESSURE DROP (IN WG)	NOTES
GIH-1	ARU-1	GREENHECK GRSI-48	INTAKE	48"x48"	6500	0.064	1 - 4

NOTES:
1. PROVIDE WITH INTEGRAL INSECT SCREEN.
2. PROVIDE WITH MANUFACTURER'S STANDARD CORROSION RESISTANT FINISH.
3. PROVIDE WITH ROOF CURB.
4. APPROVED EQUALS INCLUDE LOREN COOK PR AND TWIN CITY FAN GRV.

LOUVER SCHEDULE

MARK	MANUFACTURER MODEL	UNIT SERVED	OPENING	FREE AREA (FT^2)	MAX VELOCITY (FPM)	PRESSURE DROP (IN. WG)	SCREEN TYPE	NOTES
L-1	GREENHECK ESD-635-56x24	AHU-1	56 x 24	4.4	451	0.03	BIRD	1 - 4

NOTES:
1. LOUVER DIMENSIONS ARE 1/4" LESS THAN OPENING DIMENSIONS.
2. LOUVER SHALL BE AMCA CERTIFIED.
3. PROVIDE WITH MANUFACTURER STANDARD CORROSION RESISTANT FINISH. PAINT TO MATCH EXTERIOR WALL.
4. APPROVED EQUALS INCLUDE RUSKIN ELF6350DMP AND UNITED ENERTECH FL-D6.1

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

MARK	AREA SERVED	BASIS OF DESIGN										ELECTRICAL DATA	NOTES
		MANUFACTURER MODEL	INLET SIZE	VOLUME REGULATION					HEATING				
				MAX PRIMARY AIR (CFM)	MIN PRIMARY AIR (CFM)	FAN CFM	FAN HP	MAX HEATING AIR (CFM)	HEATING E.A.T. (°F)	HEATING L.A.T. (°F)	HEATER KW	STAGES	
VAV-1-1	VESTIBULE & RESTROOMS	PRICE SDV06	6"	450	65	---	---	275	56.4	90.9	3.0	2	480V/3Ø	1,2,4,5,7,9-12
VAV-1-2	OFFICES & CONFERENCE	PRICE SDV06	6"	350	91	---	---	180	56.4	91.5	2.0	2	480V/3Ø	1,2,4,5,7,9-12
VAV-1-3	CORRIDOR & BREAKROOM	PRICE SDV08	8"	850	143	---	---	650	56.4	90.4	7.0	2	480V/3Ø	1,2,4,5,7,9-12
FPVAV-1-4	MEETING ROOM 354A	PRICE FDV2010	10"	1200	377	330	1/3	707	62.7	91.8	6.5	2	480V/3Ø	1,3-6,8-12
FPVAV-1-5	MEETING ROOM 354B	PRICE FDV2010	10"	1200	386	330	1/3	716	62.7	91.3	6.5	2	480V/3Ø	1,3-6,8-12
FPVAV-1-6	TRAINING ROOM 354C	PRICE FDV2010	10"	1200	383	380	1/3	763	63.1	90.1	6.5	2	480V/3Ø	1,3-6,8-12
VAV-1-7	OFFICES	PRICE SDV06	6"	250	65	---	---	120	56.4	95.8	1.5	2	480V/3Ø	1,2,4,5,7,9-12
VAV-1-8	OFFICES	PRICE SDV06	6"	225	65	---	---	110	56.4	99.5	1.5	2	480V/3Ø	1,2,4,5,7,9-12
VAV-1-9	OFFICES & WORKROOMS	PRICE SDV08	8"	550	125	---	---	445	56.4	91.8	5.0	2	480V/3Ø	1,2,4,5,7,9-12
VAV-1-10	HALL & BREAKROOM	PRICE SDV06	6"	300	65	---	---	200	56.4	95.8	2.5	2	480V/3Ø	1,2,4,5,7,9-12
VAV-1-11	OFFICES	PRICE SDV06	6"	325	65	---	---	165	56.4	94.7	2.0	2	480V/3Ø	1,2,4,5,7,9-12
VAV-1-12	OFFICE 320	PRICE SDV06	6"	400	65	---	---	220	56.4	92.3	2.5	2	480V/3Ø	1,2,4,5,7,9-12
VAV-1-13	CONFERENCE 323	PRICE SDV06	6"	400	129	---	---	260	56.4	92.8	3.0	2	480V/3Ø	1,2,4,5,7,9-12
VAV-1-14	OFFICES	PRICE SDV06	6"	375	65	---	---	200	56.4	95.8	2.5	2	480V/3Ø	1,2,4,5,7,9-12

NOTES:
1. PROVIDE UNIT WITH 1" THICK FIBERGLASS INSULATION.
2. FULL SHUTOFF TYPE BOX.
3. THE TRUE MINIMUM AIR VOLUME IS THE MINIMUM BOX CAPACITY WHEN THE ZONE IS UNOCCUPIED. MINIMUM VOLUME SHOWN IS THE MINIMUM VENTILATION REQUIREMENT.
4. PROVIDE SIEMENS VAV CONTROLLER MOUNTED AT FACTORY WHICH INTEGRATES WITH SIEMENS DESIGO BUILDING MANAGEMENT SYSTEM.
5. PROVIDE UNIT WITH DOOR INTERLOCK DISCONNECT SWITCH.
6. PROVIDE ECM FAN MOTOR.
7. APPROVED EQUALS SHALL BE TRANE VCEF AND GREENHECK XG-TH-500
8. APPROVED EQUALS SHALL BE TRANE VPEF AND GREENHECK XG-FVI-500
9. PROVIDE WITH MULTI-POINT, CENTER AVERAGING CROSS FLOW SENSOR.
10. PROVIDE WITH BOTTOM ACCESS DOOR.
11. PROVIDE WITH VIBRATION ISOLATION.
12. PROVIDE WITH FACTORY MOUNTED CONTROL TRANSFORMER.

AIR SEPARATOR SCHEDULE

MARK	MANUFACTURER MODEL	TYPE	SERVICE	MAX GPM	INLET SIZE (IN)	NOTES
AS-2	BELL AND GOSSETT 5360-08F-12-004	CENTRIFUGAL, WITH STRAINER	HOT WATER	1300	8	1-5
AS-3	BELL AND GOSSETT 5360-08F-12-004	CENTRIFUGAL, WITH STRAINER	CHILLED WATER	1300	8	1-5

NOTES:
1. PROVIDE WITH HIGH CAPACITY AUTOMATIC AIR VENT.
2. PROVIDE WITH MANUAL BLOW DOWN VALVE.
3. DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTION VIII, DIVISION 1 OF THE ASME BOILER AND PRESSURE VESSEL CODE.
4. STAINLESS STEEL STRAINER.
5. APPROVED EQUALS INCLUDE TACO ACT SERIES AND AMTROL MODEL AS.

CHEMICAL BYPASS FEEDER SCHEDULE

MARK	MANUFACTURER MODEL	TYPE	SERVICE	CAPACITY (GAL)	NOTES
CBF-1	NEPTUNE DBF-5HP	VERTICAL	HOT WATER	5	1

NOTES:
1. APPROVED EQUALS INCLUDE JL WINGERT DB SERIES AND GWS DB SERIES

AIR HANDLING UNIT SCHEDULE

MARK	AREA SERVED	NOMINAL TONS	BASIS OF DESIGN																							NOTES
			MANUFACTURER	MODEL NUMBER	COOLING												PRE-HEAT							ELECTRICAL DATA		WEIGHT (LBS)	
					TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ESP (IN WG)	FAN HP	FLOW (GPM)	EWT (°F)	LWT (°F)	WATER PRESSURE DROP (FT WG)	EAT (°F)	LAT (°F)	TOTAL PRE-HEAT (MBH)	FLOW (GPM)	EWT (°F)	LWT (°F)	WATER PRESSURE DROP (FT WG)	EAT (°F)	LAT (°F)	VOLTAGE	PHASE		
AHU-1	SOUTH OFFICES	23.5	TRANE	UCCAA17	282.00	209.38	8075	2000	2	7.5	59.77	45.00	54.40	7.38	80.00	54.40	213.41	21.38	140.0	120.0	1.69	59.10	83.47	460	3	1801.6	1-14

NOTES:
1. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL.
2. PROVIDE BACNET IP COMMUNICATION WHICH INTEGRATES WITH SIEMENS DESIGO BUILDING MANAGEMENT SYSTEM.
3. PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH.
4. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY.
5. FIRE ALARM VENDOR TO FURNISH DUCT SMOKE DETECTOR. MECHANICAL CONTRACTOR TO INSTALL DUCT SMOKE DETECTOR IN THE RETURN AIR DUCT OF THE UNIT. FIRE ALARM VENDOR TO WIRE AND PROGRAM. DUCT SMOKE DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
6. PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED UPON SUBSTANTIAL COMPLETION.
7. PROVIDE RESTRAINED SPRING VIBRATION ISOLATION.
8. PROVIDE WITH MIXING BOX FROM FACTORY WITH BOTTOM RETURN OPENING AND REAR OUTSIDE AIR OPENING WITH MOTORIZED AIR DAMPERS.
9. CONFIRM ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY.
10. LABEL UNITS WITH MARK OR STENCIL MARK ON SIDE OF OUTSIDE UNIT WITH BLACK EXTERIOR PAINT.
11. PROVIDE WITH BOTTOM FILTER ACCESS.
12. PROVIDE WITH FACTORY MOUNTED DISCONNECT.
13. PROVIDE WITH FACTORY MOUNTED VFD WITH OUTPUT FOR CONNECTION TO SIEMENS DESIGO BMS.
14. APPROVED EQUALS SHALL BE DAIKIN CAH017GDAC AND VTS AVS-085.

EXPANSION TANK SCHEDULE

MARK	MANUFACTURER MODEL	TYPE	SERVICE	MAX ACCEPTANCE (GAL)	SYSTEM CONNECTION SIZE (IN)	FILL CONNECTION SIZE (IN)	NOTES
EXP-1	BELL AND GOSSETT B400	BLADDER	HOT WATER	106.0	1 1/2	3/4	1-5
EXP-2	BELL AND GOSSETT B35	BLADDER	CHILLED WATER	10.0	3/4	3/4	1-5

NOTES:
1. DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTION VIII, DIV. 1 OF THE ASME BOILER AND PRESSURE VESSEL CODE.
2. PROVIDE WITH PRESSURE GAUGE, BLADDER INTEGRITY MONITOR, AND AIR CHARGING VALVE.
3. CARBON STEEL SHELL.
4. REPLACEABLE HEAVY DUTY BUTYL RUBBER BLADDER.
5. APPROVED EQUALS INCLUDE TACO CA SERIES AND AMTROL EXTROL L-SERIES.

AIR ROTATION UNIT SCHEDULE

MARK	AREA SERVED	NOMINAL TONS	BASIS OF DESIGN																							NOTES
			MANUFACTURER	MODEL NUMBER	COOLING												HEATING							ELECTRICAL DATA		WEIGHT (LBS)	
					SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	FAN HP	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	FLOW (GPM)	EWT (°F)	LWT (°F)	WATER PRESSURE DROP (FT WG)	EAT (°F)	LAT (°F)	TOTAL HEATING (MBH)	FLOW (GPM)	EWT (°F)	LWT (°F)	WATER PRESSURE DROP (FT WG)	EAT (°F)	LAT (°F)	VOLTAGE	PHASE		
ARU-1	86/87 WAREHOUSE	85	POWRMATIC	TE-41HC	34000	6500	(2) 7.5	1034.1	762.3	203.1	45.00	55.1	15.69	80.00	58.8	896.7	91.4	140.0	120.1	1.81	70.0	94.5	480	3	6000	1-7,9-12
ARU-2	86/87 WAREHOUSE	85	POWRMATIC	TE-41HC	34000	-	(2) 7.5	1034.1	762.3	203.1	45.00	55.1	15.69	80.00	58.8	896.7	91.4	140.0	120.1	1.81	70.0	94.5	480	3	6000	1-7,9-12
ARU-3	89 WAREHOUSE	79	POWRMATIC	TE-41HC	31600	2550	(2) 7.5	973.3	711.4	188.8	45.00	55.3	13.13	80.00	58.8	821.2	81.3	140.0	119.5	1.81	70.0	94.0	480	3	6000	1-8,10-12
ARU-4	92 WAREHOUSE	45	POWRMATIC	TE-21HC	18000	1450	(2) 7.5	552.2	402.5	107.5	45.00	55.2	19.06	80.00	57.1	507.7	50.8	140.0	119.7	1.38	70.0	96.1	480	3	4000	1-8,10-11,13
ARU-5	94 WAREHOUSE	96	POWRMATIC	TE-41HC	42800	5400	(2) 7.5	1169.8	852.9	229.4	45.00	55.2	17.18	80.00	59.0	903.0	91.4	140.0	119.9	1.92	70.0	91.8	480	3	6000	1-7,9-12
ARU-6	94 WAREHOUSE	96	POWRMATIC	TE-41HC	38400	-	(2) 7.5	1169.8	852.9	229.4	45.00	55.2	17.18	80.00	59.0	903.0	91.4	140.0	119.9	1.92	70.0	91.8	480	3	6000	1-7,9-12

NOTES:
1. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL.
2. PROVIDE BACNET IP COMMUNICATION WHICH INTEGRATES WITH SIEMENS DESIGO BUILDING MANAGEMENT SYSTEM.
3. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY.
4. MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED UPON SUBSTANTIAL COMPLETION.
5. PROVIDE VIBRATION ISOLATION PADS.
6. MECHANICAL CONTRACTOR SHALL CONFIRM ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY.
7. LABEL UNITS WITH MARK OR STENCIL MARK ON SIDE OF OUTSIDE UNIT WITH BLACK EXTERIOR PAINT.
8. PROVIDE UNIT WITH 3-WAY DISCHARGE PLENUM.
9. PROVIDE UNIT WITH 4-WAY DISCHARGE PLENUM.
10. PROVIDE WITH FACTORY MOUNTED VFD WITH OUTPUT FOR CONNECTION TO SIEMENS DESIGO BMS.
11. PROVIDE WITH FACTORY MOUNTED DISCONNECT.
12. APPROVED EQUALS SHALL BE APPLIED AIR MATO-045K AND TRANE ARUB
13. APPROVED EQUALS SHALL BE APPLIED AIR MATO-030K AND TRANE ARUA

MAGNETIC SEPARATOR SCHEDULE

MARK	MANUFACTURER MODEL	SERVICE	DESIGN FLOW (GPM)	CAPACITY @ 5 FPS (GPM)	INLET/OUTLET SIZE (IN)	NOTES
MS-1	BOILERMAG BMXT300HF/8/ANSI	HOT WATER	576	775	8	1

NOTES:
1. APPROVED EQUALS INCLUDE MAGSTRAINER H2 AND ADEY MAGNACLEAN

MAKEUP WATER APPURTENANCE SCHEDULE

MARK	MANUFACTURER MODEL	SIZE (IN)	DESCRIPTION	NOTES
RPZ-1	WATTS LF009	3/4"	LEAD FREE BRONZE REDUCED PRESSURE ZONE BACKFLOW PREVENTER, ASSE 1013	1-2
PRV-1	BELL AND GOSSETT B7-12	3/4"	LEAD FREE BRONZE PRESSURE REDUCING VALVE, 10-25 PSI, SET TO 20 PSI	3-4
PRV-2	BELL AND GOSSETT MODEL 7	3/4"	LEAD FREE BRONZE PRESSURE REDUCING VALVE, 25-60 PSI, SET TO 30 PSI	3-4
RV-1	BELL AND GOSSETT 790-50	3/4"	LEAD FREE BRONZE PRESSURE RELIEF VALVE, RELIEF SETTING OF 50 PSI, ASME SECTION IV	3,5

NOTES:
1. PROVIDE WITH AIR GAP FITTING, INLET STRAINER, AND QUARTER TURN BALL VALVES
2. APPROVED EQUALS INCLUDE ZURN WILKINS 975XL3 AND FEBCO LF860 SMALL
3. A PREASSEMBLED MAKEUP WATER PACKAGE MAY BE USED IN LIEU OF AN INDIVIDUAL PRV AND RELIEF VALVE.
4. APPROVED EQUALS INCLUDE WATTS LF123LP AND ZURN WILKINS 500XL3
5. APPROVED EQUALS INCLUDE WATTS LF174A AND ZURN WILKINS P1000AXL

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	DESCRIPTION	DESIGN BASIS		FACE SIZE	NECK SIZE	MATERIAL	NOTES
			MANUFACTURER	MODEL				
S-1	SUPPLY	SQUARE CONE, 3-CONE, FIXED PATTERN	PRICE	SCD	12"x12"	6"Ø	STEEL	1 - 3
S-2	SUPPLY	SQUARE CONE, 4-CONE, FIXED PATTERN	PRICE	SCD	24"x24"	6"Ø	STEEL	1 - 3
S-3	SUPPLY	SQUARE CONE, 4-CONE FIXED PATTERN	PRICE	SCD	24"x24"	8"Ø	STEEL	1 - 3
R-1	RETURN	PERFORATED FACE, PLENUM RETURN	PRICE	PDDR	24"x24"	22"x22"	STEEL	1-3

NOTES:
1. FINISH SHALL MATCH CEILING AND DIFFUSERS IN ADJACENT, OUT OF SCOPE, AREAS FOR A CONTIGUOUS LOOK.
2. MOUNTING TYPE SHALL BE SUITABLE FOR THE CEILING TYPE INTO WHICH DIFFUSER IS INSTALLED.
3. ACCEPTABLE EQUALS INCLUDE METALAIRE AND TITUS.

PUMP SCHEDULE

MARK	MANUFACTURER MODEL	SERVICE	TYPE	FLOW (GPM)	HEAD (FT)	SUCTION SIZE (IN)	DISCHARGE SIZE (IN)	IMPELLER DIAMETER (IN)	MOTOR			ELECTRICAL DATA		WEIGHT LBS.	NOTES
									HP	RPM	CONTROL	VOLTAGE	PHASE		
HWP-1	BELL & GOSSETT BG-E1510-3BD-SS-254T-S	HOT WATER	BASE MOUNTED END SUCTION	597	60	4	3	9.5	15	1800	VFD	480	3	310	1-7
HWP-2	BELL & GOSSETT BG-E1510-3BD-SS-254T-S	HOT WATER	BASE MOUNTED END SUCTION	597	60	4	3	9.5	15	1800	VFD	480	3	310	1-7
HWP-3	BELL & GOSSETT BG-E90-125AAB-050-1725-1	HOT WATER	CLOSE COUPLED IN-LINE CENTRIFUGAL	28	20	1 1/4	1 1/4	4.625	0.5	1800	CONSTANT	480	3	55	1,3,5,8,9
BP-1	BELL & GOSSETT BG-E80-4x4x11B-SS215JM-1-IN	HOT WATER	CLOSE COUPLED IN-LINE CENTRIFUGAL	288	37	4	4	10.625	5	1200	VFD	480	3	425	1,2,3,5,8,10
BP-2	BELL & GOSSETT BG-E80-4x4x11B-SS215JM-1-IN	HOT WATER	CLOSE COUPLED IN-LINE CENTRIFUGAL	288	37	4	4	10.625	5	1200	VFD	480	3	425	1,2,3,5,8,10

NOTES:
1. SINGLE POINT POWER CONNECTION.
2. FURNISH VARIABLE SPEED CONTROLLER WITH SUCTION AND DISCHARGE PRESSURE TRANSMITTERS AND DISCHARGE TEMPERATURE SENSOR.
3. PACKAGE SHALL BE HYDROSTATICALLY AND FLOW TESTED PRIOR TO SHIPMENT.
4. PROVIDE WITH OSHA COUPLING GUARDS
5. PROVIDE WITH STANDARD SEALS.
6. PROVIDE WITH PUMP SUCTION DIFFUSER, DRIP PAN, AND TRIPLE DUTY VALVE.
7. ACCEPTABLE EQUALS INCLUDE TACO FI3009D AND ARMSTRONG 4030-5x4x10-15.
8. PROVIDE WITH SHUT OFF VALVE AND STRAINER UPSTREAM OF PUMP.
9. APPROVED EQUALS INCLUDE TACO KV1506D AND ARMSTRONG 4380 1.5x1.5x6-0.5.
10. APPROVED EQUALS INCLUDE TACO KV4007D AND ARMSTRONG 4380 5x5x8-5.

CONDENSING BOILER SCHEDULE

MARK	MANUFACTURER MODEL	INPUT MBH	OUTPUT MBH	MINIMUM EFF.	FLOW (GPM)	EWT (°F)	LWT (°F)	WATER PRESSURE DROP (FT WG)	ELECTRICAL DATA		NOTES
									VOLTAGE	PHASE	
B-1	LOCHINVAR FB-3001	3000	2507	96.0%	288	120.0	140.0	8.0	208	3	1-9
B-2	LOCHINVAR FB-3001	3000	2507	96.0%	288	120.0	140.0	8.0	208	3	1-9

NOTES:
1. BOILER SHALL BE CSD-1 COMPLIANT.
2. PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER.
3. MINIMUM 10:1 TURNDOWN RATIO.
4. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.
5. BOILER SHALL BE COMPATIBLE WITH POLYPROPYLENE FLUE/COMBUSTION VENT SYSTEM.
6. PROVIDE BACNET IP COMMUNICATION PROTOCOL COMPATIBLE W/ SIEMENS DESIGO BUILDING MANAGEMENT SYSTEM.
7. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY AND 10 YEAR HEAT EXCHANGER WARRANTY.
8. APPROVED EQUALS: PATTERSON-KELLY STORM 3000 AND BRYAN BFIT-3000.
9. HEAT EXCHANGER SHALL BEAR THE ASME "H" STAMP.

CONDENSATE PUMP SCHEDULE

MARK	MANUFACTURER MODEL	UNIT SERVED	FLOW (GPH)	HEAD (FT)	DISCHARGE SIZE (IN)	MOTOR		ELECTRICAL DATA		NOTES
						HP	CONTROL	VOLTAGE	PHASE	
CP-1	LITTLE GIANT VCL-45ULS	ARU-1	30	35	3/8"	1/5	FLOAT	230	1	1-3
CP-2	LITTLE GIANT VCL-45ULS	ARU-2	30	35	3/8"	1/5	FLOAT	230	1	1-3
CP-3	LITTLE GIANT VCL-24ULS	ARU-4	20	20	3/8"	1/18	FLOAT	230	1	1-3
CP-4	LITTLE GIANT VCL-45ULS	ARU-5	35	35	3/8"	1/5	FLOAT	230	1	1-3
CP-5	LITTLE GIANT VCL-45ULS	ARU-6	35	35	3/8"	1/5	FLOAT	230	1	1-3

NOTES:
1. SINGLE POINT POWER CONNECTION.
2. PROVIDE WITH CHECK VALVE ADAPTER ON DISCHARGE.
3. APPROVED EQUALS INCLUDE BECKETT PUMP CB SERIES AND HARTELL A5.

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3"

SOUTH CAROLINA DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 35953 REGISTERED PROFESSIONAL ENGINEER 01/19/26

SEALS

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PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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DRAWING NAME
MECHANICAL SCHEDULES

DRAWING NO.
M001

Drawn By: ASE Checked By: CJC

ALTERNATE 1 - FAN SCHEDULE

MARK	MANUFACTURER MODEL	AREA SERVED	SERVICE	TYPE	CFM	WIDTH (IN)	HEIGHT (IN)	STATIC PRESSURE (IN WG)	NOMINAL RPM	DRIVE TYPE	ELECTRICAL DATA		MOTOR HP	CONTROL	SONES	WEIGHT (LBS)	NOTES
											VOLTAGE	PHASE					
EF-1	GREENHECK AER-30-03-0310-VG	92 BASEMENT	EXHAUST	SIDEWALL	5032	44	44	0.4	1415	DIRECT	460	3	1	SPEED CONTROLLER	32	222	1-5
EF-2	GREENHECK AER-30-03-0310-VG	92 BASEMENT	EXHAUST	SIDEWALL	5032	44	44	0.4	1415	DIRECT	460	3	1	SPEED CONTROLLER	32	222	1-5

NOTES:
1. PROVIDE UNIT WITH WITH OSHA COMPLIANT WALL HOUSING.
2. UNIT SHALL BE UL LISTED AND AMCA CERTIFIED.
3. PROVIDE UNIT WITH SPEED CONTROL.
4. PROVIDE MOTOR WITH THERMAL OVERLOAD PROTECTION.
5. APPROVED EQUALS INCLUDE LOREN-COOK AWD AND TWIN CITY FAN WPD.

ALTERNATE 2 - PUMP SCHEDULE

MARK	MANUFACTURER MODEL	SERVICE	TYPE	FLOW (GPM)	HEAD (FT)	SUCTION SIZE (IN)	DISCHARGE SIZE (IN)	IMPELLER DIAMETER (IN)	MOTOR			ELECTRICAL DATA		WEIGHT LBS.	NOTES
									HP	RPM	CONTROL	VOLTAGE	PHASE		
CHWP-1	BELL & GOSSETT BG-E1510-5EB-SS-286T-L	CHILLED WATER	BASE MOUNTED END SUCTION	1000	80	6	5	10.5	30	1800	VFD	480	3	435	1-8
CHWP-2	BELL & GOSSETT BG-E1510-5EB-SS-286T-L	CHILLED WATER	BASE MOUNTED END SUCTION	1000	80	6	5	10.5	30	1800	VFD	480	3	435	1-8

NOTES:
1. SINGLE POINT POWER CONNECTION.
2. FURNISH VARIABLE SPEED CONTROLLER WITH SUCTION AND DISCHARGE PRESSURE TRANSMITTERS AND DISCHARGE TEMPERATURE SENSOR.
3. PACKAGE SHALL BE HYDROSTATICALLY AND FLOW TESTED PRIOR TO SHIPMENT.
4. PROVIDE WITH OSHA COUPLING GUARDS
5. PROVIDE WITH STANDARD SEALS.
6. PROVIDE WITH PUMP SUCTION DIFFUSER, DRIP PAN, AND TRIPLE DUTY VALVE.
7. PUMPS ARE SIZED FOR FUTURE EXPANSION. OPERATING CONDITIONS ARE 800 GPM, 60 FT HEAD.
8. ACCEPTABLE EQUALS INCLUDE TACO FI5011D AND ARMSTRONG 4030 6x5x11.5-30.

EXISTING SPLIT SYSTEM SCHEDULE

AREA SERVED	MANUF.	INDOOR UNIT				OUTDOOR UNIT				NOTES
		MARK		MODEL NUMBER	SERIAL NUMBER	MARK		MODEL NUMBER	SERIAL NUMBER	
		EXISTING	NEW			EXISTING	NEW			
READY SC	TRANE	AHU-1	AHU-2	TWE24044	20021785WA	CU-1	CU-2	TTA24044	19481065TA	1-4
SPARK CENTER SOUTH OFFICES	YORK	AHU-6	AHU-3	---	---	HP-6	HP-3	YHJD60S44S5B	W1E5705915	1-4
TRB 407	TRANE	---	AHU-4	---	---	---	HP-4	TWA120D40RAA	12162SMXYA	1-4
SPARK CENTER SOUTH OFFICES	YORK	AHU-5	AHU-5	---	---	HP-5	HP-5	YHJD42S44S4B	W1K5003395	1-4
SPARK CENTER LOBBY	YORK	AHU-4	AHU-6	AHV60D3XT21CA	W1GS819930	HP-4	HP-6	YZH06012CA	W105645495	1-4
SPARK CENTER HALLWAY	YORK	AHU-3	AHU-7	AHE60D3XT21A	W1E5719860	HP-3	HP-7	YHJD60S44S5B	W1L5060426	1-4
SPARK CENTER IT 521	TRANE/ MITSUBISHI	AC-1	AC-8	---	---	CU-1	CU-8	PUY-A18NHA6	56U03416C	1-4
PRESENTATION 522	TRANE/ MITSUBISHI	AHU-7	AHU-9	---	---	HP-7	HP-9	SUZ-KA12NA	51P00180	1-4
CONFERENCE 523	TRANE/ MITSUBISHI	AHU-8	AHU-10	---	---	HP-8	HP-10	PUZ-A18NHA6	5ZU04018A	1-4
TRAINING ROOM 528	YORK	AHU-2	AHU-11	AHV60D3XT21CA	W1N4353545	HP-2	HP-11	YZH06012CA	W1B4419204	1-4
TRAINING ROOM 529	YORK	AHU-1	AHU-12	AHV60D3XT21CA	W1K5010393	HP-1	HP-12	YZH06012CA	W1G4884260	1-4
CORRIDOR 524	TRANE	AHU-14	AHU-13	TEM6B0C60H51SAA	23125Y9L3V	HP-14	HP-13	4TWA4060A4000AC	23044P9U5F	1-4
INFORMATION TECHNOLOGY 326	TRANE/ MITSUBISHI	---	AC-14	---	---	---	CU-14	PUY-A18NKA7	96U11986C	1-4
INFORMATION TECHNOLOGY 326	TRANE/ MITSUBISHI	---	AC-15	---	---	---	CU-15	PUY-A18NKA7	95U11334C	1-4
92 WAREHOUSE OFFICES	DAIKIN	AHU-2	AHU-16	AMST36CU1300AA	2505051146	HP-2	HP-16	DH4SEA3630AA	2505074380	1-4
92 WAREHOUSE OFFICES	TRANE	AHU-1	AHU-17	GAM2A0A36S31SEA	14265KGXBV	HP-1	HP-17	4TWA3036B3000AA	14301WBA4F	1-4
94 WAREHOUSE NORTH OFFICES	TRANE	SSHP-1	AHU-18	---	---	SSHP-1	HP-18	4TWA4060A3000AB	2045534K2F	1-4
94 WAREHOUSE SOUTH OFFICES	TRANE	SSHP-2	AHU-19	TEM6A0B30H21SBA	20431A7C3V	SSHP-2	HP-19	4TWR5030H1000AB	2045402A4F	1-4
94 WAREHOUSE SOUTH OFFICES	TRANE/ MITSUBISHI	SSHP-3	AHU-20	TWE07243BAA04AD	20451277BA	SSHP-3	HP-20	TWA07244DAA01AS	20361722YA	1-4

NOTES:
1. THIS SCHEDULE IS FOR USE IN RE-LABELING THE EXISTING MECHANICAL UNITS IN THE OFFICE AREA. LABEL ALL UNITS LISTED IN THIS SCHEDULE WITH THE TAG FROM THE "NEW" COLUMN PER SPECS. REMOVE ALL LABELS ASSOCIATED WITH THE TAG IN THE "EXISTING" COLUMN.
2. ONLY THE LISTED UNITS ARE TO BE RE-TAGGED. ALL OTHER UNITS ARE EXISTING TO REMAIN AS CURRENTLY LABELED OR DEMOLISHED. REFER TO PLANS.
3. CELLS IN THIS SCHEDULE WHICH CONTAIN THREE DASHES (---) INDICATE THAT THE DATA FOR THAT ITEM COULD NOT BE OBTAINED.
4. REFER TO PLANS FOR UNIT LOCATIONS.

EXISTING PACKAGED UNIT SCHEDULE

AREA SERVED	MANUF.	MARK		MODEL NUMBER	SERIAL NUMBER	NOTES
		EXISTING	NEW			
TRB OFFICES	TRANE	HP-1	RTU-1	WSC09DE4RKA0UC0A1	174210167L	1-3
TRB OFFICES	TRANE	HP-2	RTU-2	WSC060H4RGA01C0A1	174210598L	1-3

NOTES:
1. THIS SCHEDULE IS FOR USE IN RE-LABELING THE EXISTING MECHANICAL UNITS IN THE OFFICE AREA. LABEL ALL UNITS LISTED IN THIS SCHEDULE WITH THE TAG FROM THE "NEW" COLUMN PER SPECS. REMOVE ALL LABELS ASSOCIATED WITH THE TAG IN THE "EXISTING" COLUMN.
2. ONLY THE LISTED UNITS ARE TO BE RE-TAGGED. ALL OTHER UNITS ARE EXISTING TO REMAIN AS CURRENTLY LABELED OR DEMOLISHED. REFER TO PLANS.
3. REFER TO ROOF PLANS FOR UNIT LOCATIONS.

EXISTING VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

AREA SERVED	MANUF.	MARK		MODEL NUMBER	NOTES
		EXISTING	NEW		
TRAINING ROOM	TRANE	FVAV-1	FPVAV-2-1	VPEF1203SQ	1-3
TRAINING ROOM	TRANE	FVAV-2	FPVAV-2-2	VPEF1203SQ	1-3
TRAINING ROOM	TRANE	FVAV-3	FPVAV-2-3	VPEF1203SQ	1-3
CONFERENCE ROOM	TRANE	FVAV-4	FPVAV-2-4	VPEF1002SQ	1-3
OFFICE	TRANE	FVAV-5	FPVAV-2-5	VPEF1002SQ	1-3
OFFICE AND STORAGE	TRANE	FVAV-6	FPVAV-2-6	VPEF1002SQ	1-3
OFFICE	TRANE	FVAV-7	FPVAV-2-7	VPEF1002SQ	1-3
BREAKROOM	TRANE	FVAV-8	FPVAV-2-8	VPEF1203SQ	1-3
MANUFACTURING AREA	TRANE	FVAV-9	FPVAV-2-9	VPEF1203SQ	1-3
MANUFACTURING AREA	TRANE	FVAV-10	FPVAV-2-10	VPEF1203SQ	1-3

NOTES:
1. THIS SCHEDULE IS FOR USE IN RE-LABELING THE EXISTING MECHANICAL UNITS IN THE OFFICE AREA. LABEL ALL UNITS LISTED IN THIS SCHEDULE WITH THE TAG FROM THE "NEW" COLUMN PER SPECS. REMOVE ALL LABELS ASSOCIATED WITH THE TAG IN THE "EXISTING" COLUMN.
2. ONLY THE LISTED UNITS ARE TO BE RE-TAGGED. ALL OTHER UNITS ARE EXISTING TO REMAIN AS CURRENTLY LABELED OR DEMOLISHED. REFER TO PLANS.
3. REFER TO PLANS FOR UNIT LOCATIONS.

VENTILATION COMPLIANCE SCHEDULE

UNIT MARK	AREA SERVED	AREA (FT^2)	PEOPLE PER 1000 FT^2	NUMBER OF PEOPLE	AIRFLOW PER PERSON	AIRFLOW PER FT^2	OUTSIDE AIR REQUIRED (CFM)	TOTAL OUTSIDE AIR REQUIRED (CFM)	TOTAL OUTSIDE AIR PROVIDED (CFM)
AHU-1	OFFICE AREAS	3250	5	17	5	0.06	280	1857	2000
	WORKROOMS	200	4	1	5	0.06	17		
	CORRIDORS	1765	-	-	-	0.06	106		
	CONFERENCE AREAS	4305	50	216	5	0.06	1335		
	BREAKROOMS	635	25	16	5	0.06	119		
ARU-1	86/87 WAREHOUSE	108200	-	-	-	0.06	6492	6492	6500
ARU-3	89 WAREHOUSE	42000	-	-	-	0.06	2520	2520	2550
ARU-4	92 WAREHOUSE	23500	-	-	-	0.06	1410	1410	1450
ARU-5	94 WAREHOUSE	89000	-	-	-	0.06	5340	5340	5400
							TOTAL	17619	17900

NOTES:
1. PEOPLE DENSITY, CFM PER PERSON, AND CFM PER SQUARE FOOT ARE BASED ON THE MECHANICAL CODE DEFAULT VALUES UNLESS NOTED OTHERWISE.

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"

SOUTH CAROLINA DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 35953 CHRISTOPHER JASON CARPENTER 01/19/26

SEALS

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

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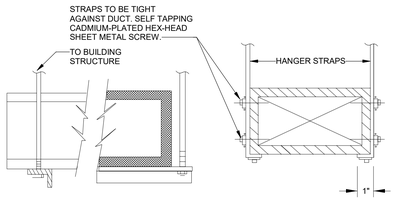
DRAWING NAME
MECHANICAL SCHEDULES

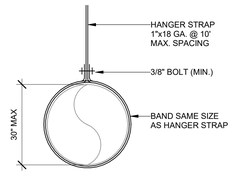
DRAWING NO.
M002

Drawn By: ASE Checked By: CJC

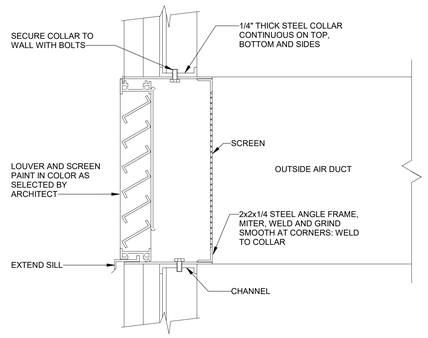


HANGER SIZES FOR RECTANGULAR DUCTS			
MAX. SIDE	HANGER	SUPPORT ANGLE HORIZONTAL	SPACING MAXIMUM
30"	1"x18" GAUGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1-1/2" x 1-1/2" x 1/8"	8'-0"
48"	1/4" ROUND ROD	2" x 2" x 1/8"	8'-0"
60"	5/16" ROUND ROD	2" x 2" x 1/8"	8'-0"
84"	3/8" ROUND ROD	2" x 2" x 1/8"	8'-0"

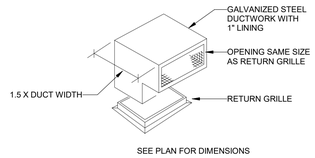
1 M003 DUCT HANGER SIZING - RECTANGULAR DUCT
NOT TO SCALE



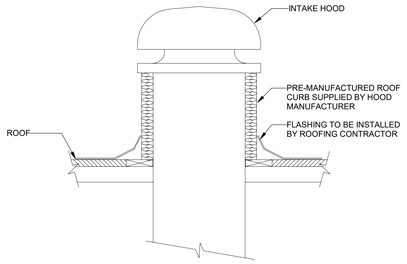
2 M003 DUCT HANGER SIZING - ROUND DUCT
NOT TO SCALE



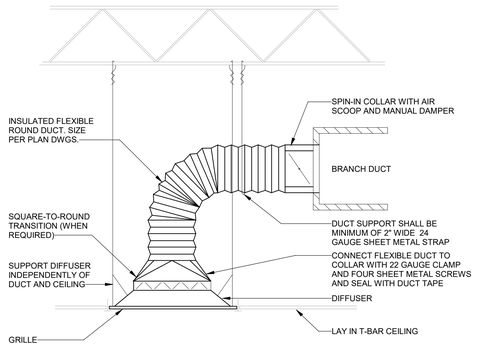
3 M003 OUTSIDE AIR LOUVER
NOT TO SCALE



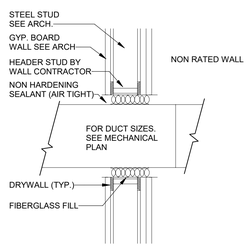
4 M003 SOUND TRAP DETAIL
NOT TO SCALE



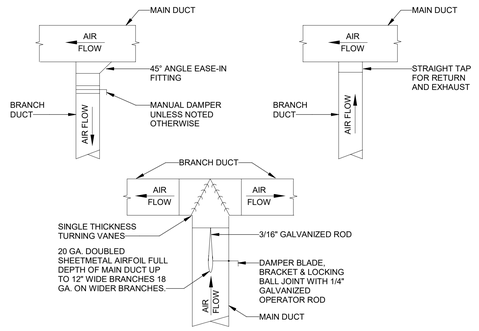
5 M003 ROOF MOUNTED HOOD
NOT TO SCALE



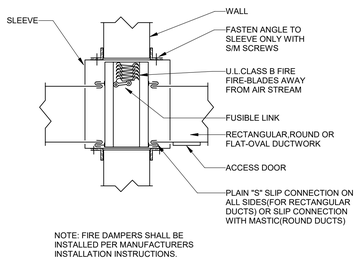
6 M003 SUPPLY DIFFUSER INSTALLATION (FLEX DUCT)
NOT TO SCALE



7 M003 DUCT PENETRATION OF WALL
NOT TO SCALE

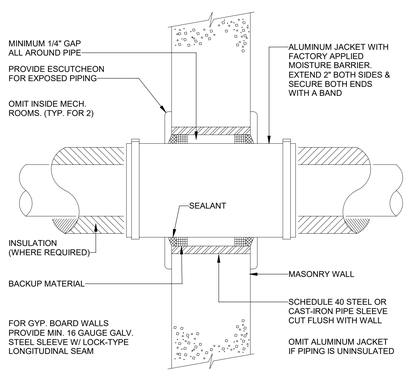


8 M003 TYPICAL RECTANGULAR LOW-PRESSURE BRANCH TAKE-OFFS
NOT TO SCALE

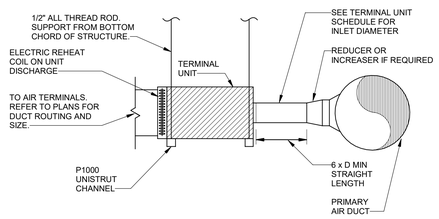


NOTE: FIRE DAMPERS SHALL BE INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.

9 M003 FIRE DAMPER DETAIL
NOT TO SCALE



10 M003 PIPING THRU WALL
NOT TO SCALE



11 M003 TERMINAL UNIT DUCT TAKE-OFF
NOT TO SCALE

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"

DEVITA & ASSOCIATES, INC.
No. C00415
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA REGISTERED
No. 35953
CARSON CARPENTER
01/19/26
SEALS

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

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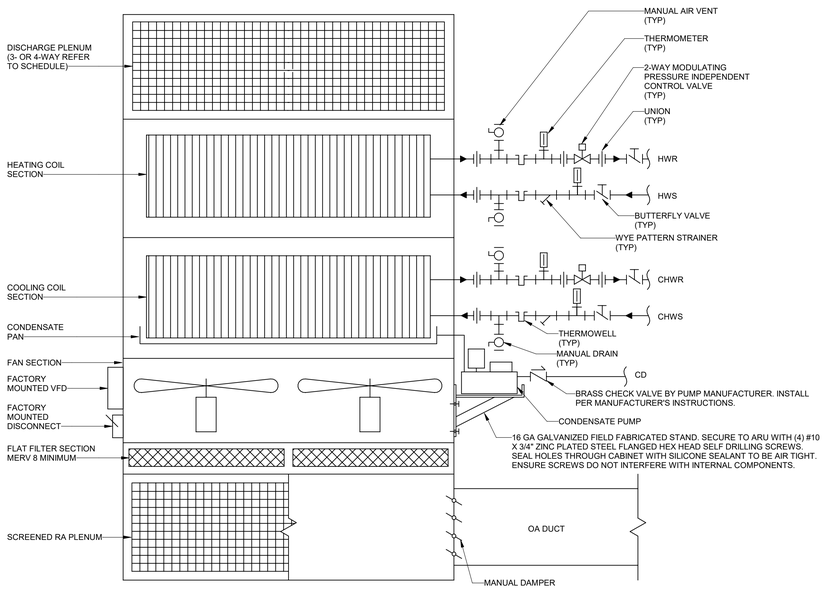
MECHANICAL DETAILS

DRAWING NO.
M003

Drawn By: ASE Checked By: CJC



1 M004 AIR ROTATION UNIT - 2-WAY CONTROL VALVES
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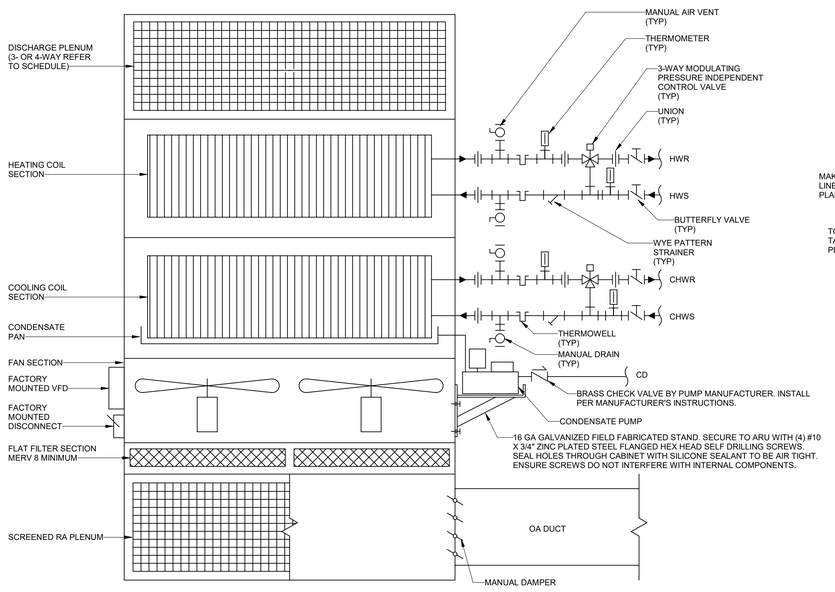
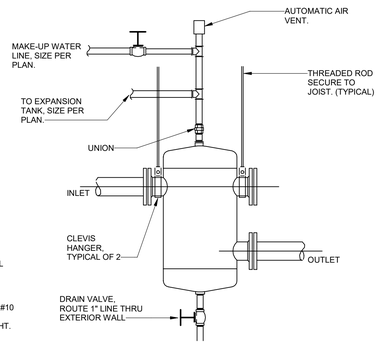
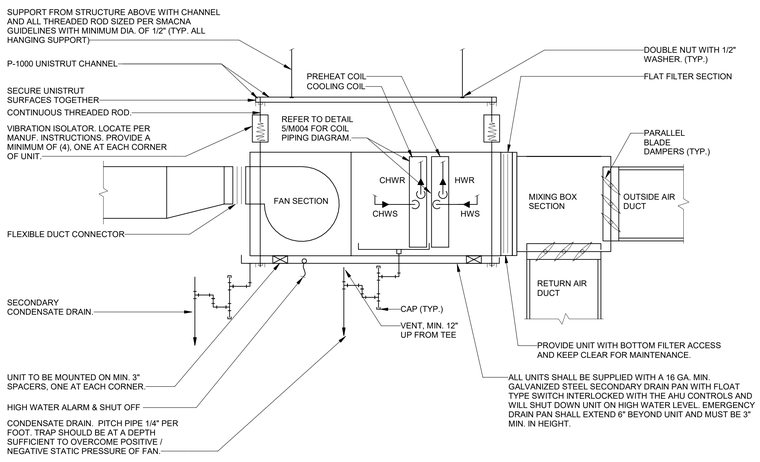


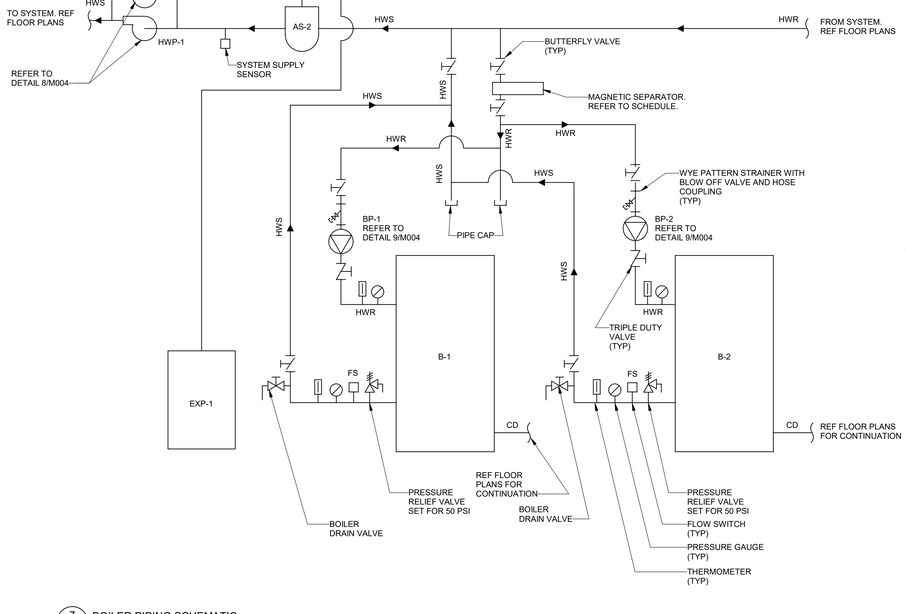
2 M004 AIR ROTATION UNIT - 3-WAY CONTROL VALVES
NOT TO SCALE



3 M004 AIR / DIRT SEPARATOR
NOT TO SCALE



4 M004 AIR HANDLER DETAIL - HORIZONTAL
NOT TO SCALE

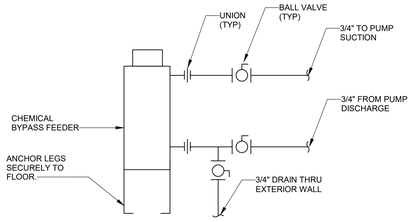


7 M004 BOILER PIPING SCHEMATIC
NOT TO SCALE

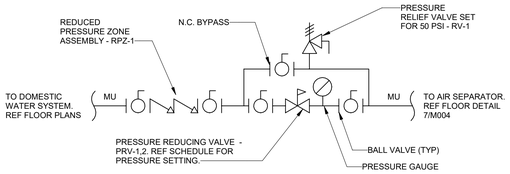
8 M004 END-SUCTION PUMP
NOT TO SCALE

9 M004 IN-LINE CENTRIFUGAL PUMP
NOT TO SCALE

5 M004 AHU COIL CONNECTION DETAIL
NOT TO SCALE



6 M004 CHEMICAL BYPASS FEEDER PIPING SCHEMATIC
NOT TO SCALE



10 M004 MAKEUP WATER ASSEMBLY
NOT TO SCALE

(BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA

SOUTH CAROLINA No. 35953 REGISTERED LANDSCAPE ARCHITECT — 01/19/26

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

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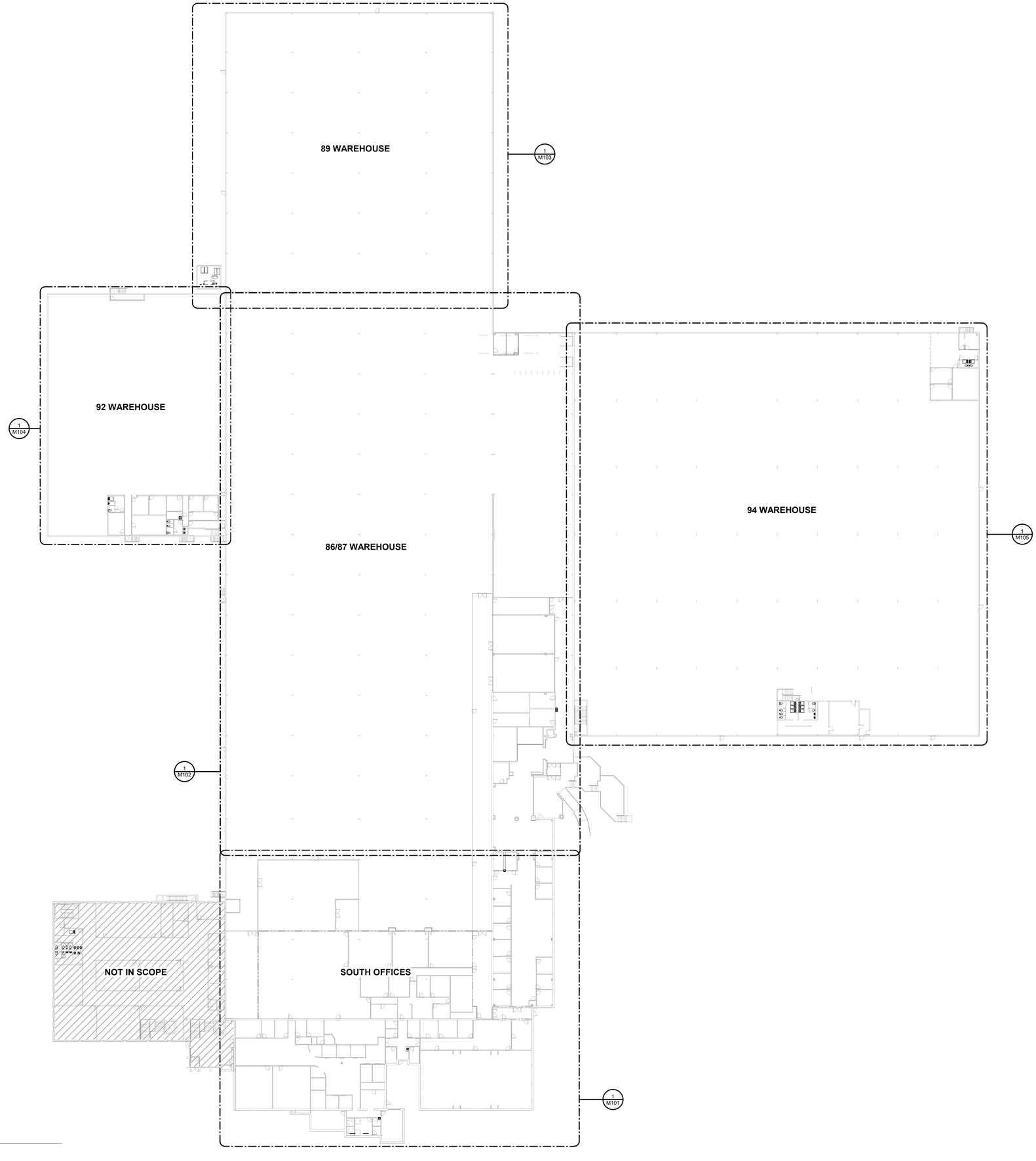
MECHANICAL DETAILS

DRAWING NO.
M004

Drawn By: ASE Checked By: CJC



1 M100 MECHANICAL OVERALL DEMOLITION PLAN
1" = 30'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 35953 CHRISTIAN CARPENTER 01/19/26

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DUNCAN, SC 29334

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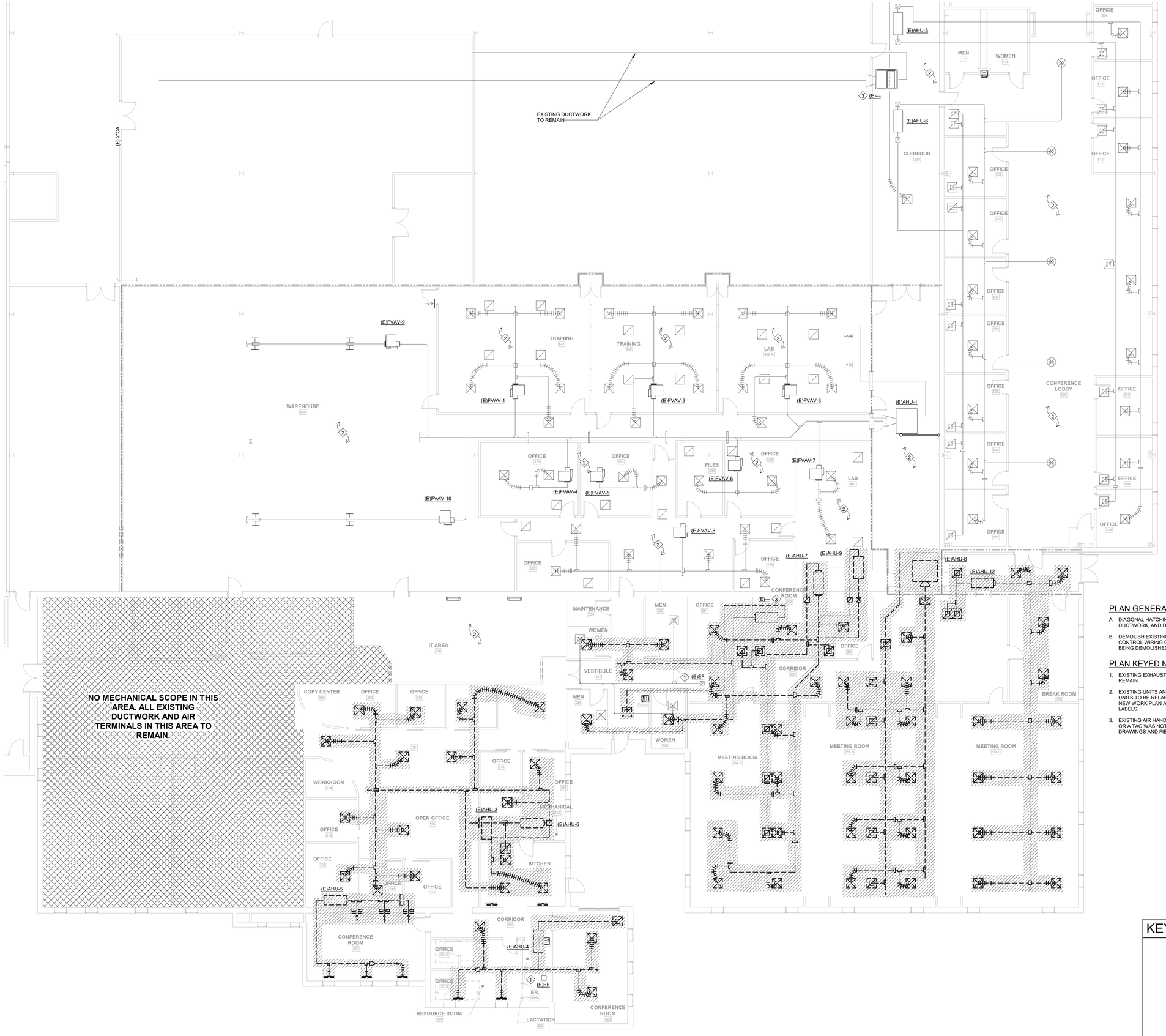
DRAWING NAME
MECHANICAL OVERALL DEMOLITION PLAN

DRAWING NO.
M100

Drawn By: ASE Checked By: CJC



1 M101 MECHANICAL SOUTH OFFICE DEMOLITION PLAN
1/8" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

PLAN GENERAL NOTES:

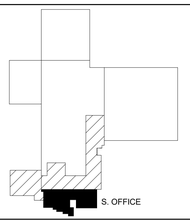
A. DIAGONAL HATCHING INDICATES EXSITING EQUIPMENT, DUCTWORK, AND DIFFUSERS TO BE REMOVED.

B. DEMOLISH EXISTING THERMOSTATS, CONTROL WIRING, AND CONTROL WIRING CONDUIT ASSOCIATED WITH EACH AHU BEING DEMOLISHED.

PLAN KEYED NOTES: (#)

1. EXISTING EXHAUST FAN, GRILLES, AND DUCTWORK TO REMAIN.
2. EXISTING UNITS AND DUCTWORK IN THIS AREA TO REMAIN. UNITS TO BE RELABELED IN SEQUENTIAL ORDER. REFER TO NEW WORK PLAN AND EXISTING UNIT SCHEDULES FOR NEW LABELS.
3. EXISTING AIR HANDLING UNIT EITHER DOES NOT HAVE A TAG OR A TAG WAS NOT ABLE TO BE OBTAINED FROM EXISTING DRAWINGS AND FIELD OBSERVATIONS.

KEY PLAN



SEALS

SOUTH CAROLINA DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 35953 REGISTERED LICENSED ARCHITECT CARY J. JOHNSON 01/19/26

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No.	H59-6315-JM
DEVITA Project No.	25531
Issue Date:	12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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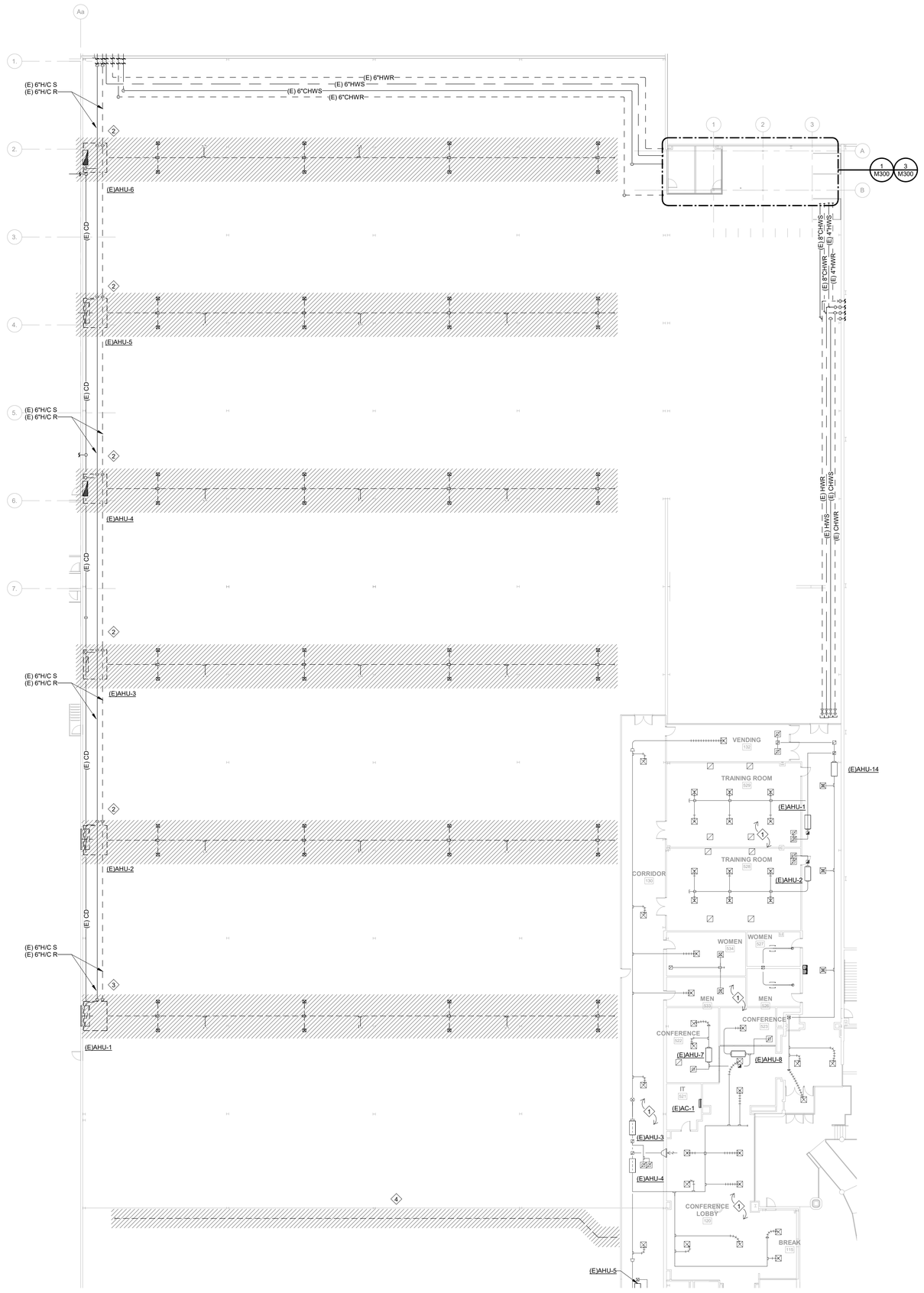
DRAWING NAME

MECHANICAL SOUTH OFFICE DEMOLITION PLAN

DRAWING NO.

M101

Drawn By: ASE Checked By: CJC



1 M102 MECHANICAL 86/87 AREA DEMOLITION PLAN
1/16" = 1'-0"

PLAN GENERAL NOTES:

A. DIAGONAL HATCHING INDICATES EXSITING EQUIPMENT, PIPING, AND DUCTWORK TO BE REMOVED.

PLAN KEYED NOTES: (#)

1. EXISTING UNITS AND DUCTWORK IN THIS AREA TO REMAIN. UNITS TO BE RELABELED IN SEQUENTIAL ORDER. REFER TO NEW WORK PLAN AND EXISTING UNIT SCHEDULES ON M002 FOR NEW LABELS.
2. REMOVE EXISITING AIR HANDLER, THERMOSTAT, CONTROLS WIRING, CONTROLS WIRING CONDUIT, AND ASSOCIATED DUCTWORK. REMOVE DUAL TEMP SUPPLY AND RETURN (H/C S, H/C R) PIPING BACK TO HEADER IN CEILING AND CAP. REMOVE CONDENSATE DRAIN BACK TO CONDENSATE PIPING ON WALL AND CAP.
3. REMOVE EXISITING AIR HANDLER, THERMOSTAT, CONTROLS WIRING, CONTROLS WIRING CONDUIT, AND ASSOCIATED DUCTWORK. REMOVE DUAL TEMP SUPPLY AND RETURN (H/C S, H/C R) PIPING AND ELBOW AT HEADER IN CEILING AND EXTEND NEW PIPING AS SHOWN ON NEW WORK PLAN. REMOVE CONDENSATE PIPING BACK TO CONDENSATE PIPING ON WALL AND CAP.
4. REMOVE ABANDONED OVERHEAD DUCTWORK IN THIS AREA.

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA

Carson Cornett No. 35953 REGISTERED PROFESSIONAL ENGINEER — SOUTH CAROLINA — 01/19/26

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TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No.	H59-6315-JM
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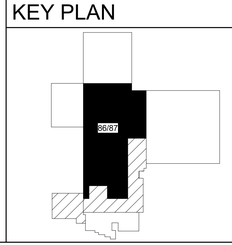
KEY PLAN

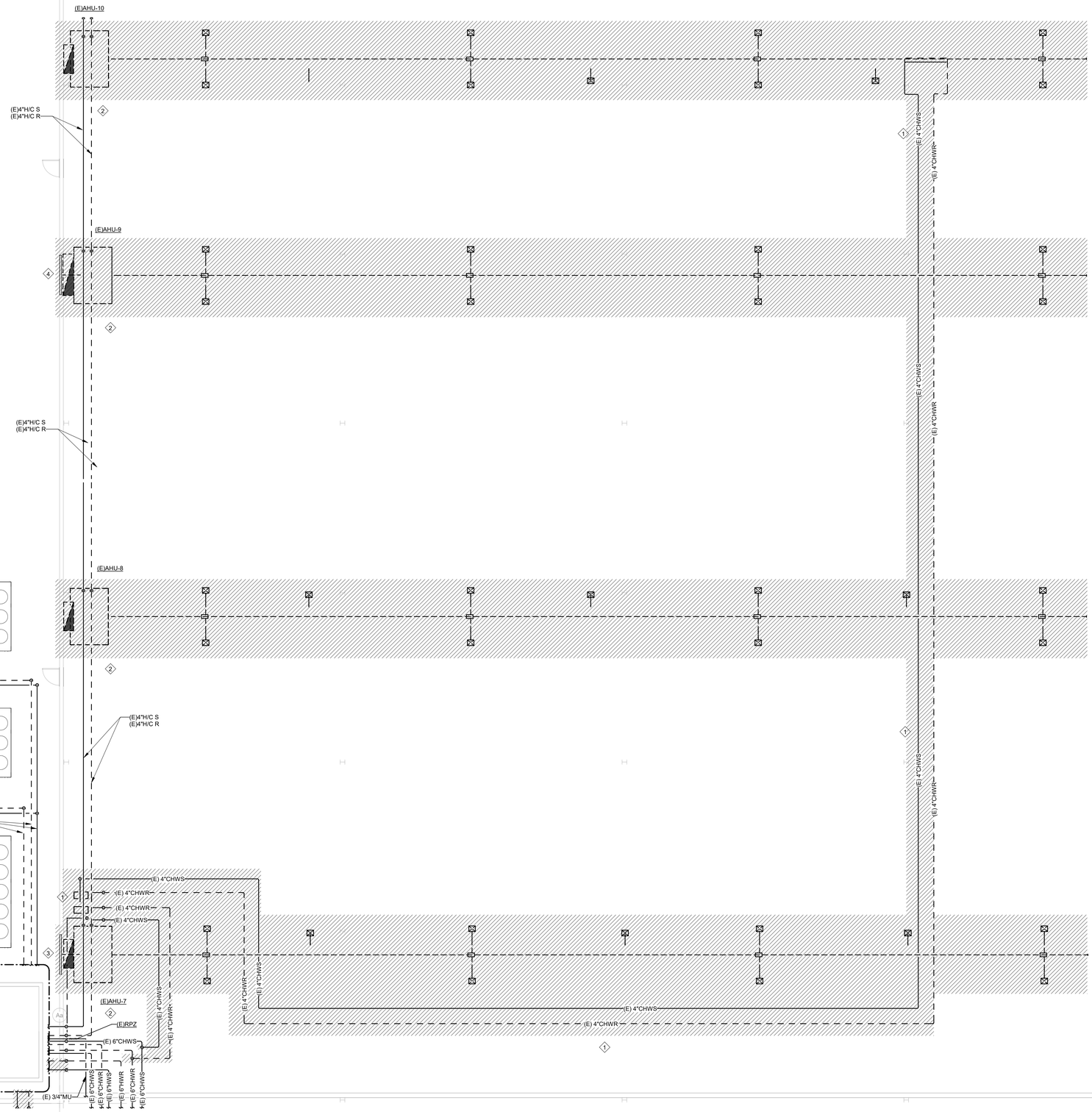


DRAWING NAME
MECHANICAL 86/87 AREA DEMOLITION PLAN

DRAWING NO.
M102

Drawn By: ASE Checked By: CJC

0" 1" 2" 3" 4" (BAR GRAPHIC IS 4" AT FULL SCALE)



1 MECHANICAL 89 AREA DEMOLITION PLAN
M103 1/8" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

PLAN GENERAL NOTES:

A. DIAGONAL HATCHING INDICATES EXSITING EQUIPMENT, PIPING, AND DUCTWORK TO BE REMOVED.

PLAN KEYED NOTES:

1. REMOVE EXISTING ABANDONED PROCESS CHILLED WATER PIPING AND EQUIPMENT BACK TO MAIN. THIS INCLUDES TWO (2) BASE MOUNTED END SUCTION PUMPS, EXPANSION TANK, AIR SEPARATOR, AND MAKE UP WATER ASSEMBLY.
2. REMOVE EXISITING AIR HANDLER, THERMOSTAT, CONTROLS WIRING, CONTROLS WIRING CONDUIT, AND ASSOCIATED DUCTWORK. REMOVE DUAL TEMP SUPPLY AND RETURN (H/C S, H/C R) PIPING BACK TO HEADER IN CEILING AND CAP. REMOVE CONDENSATE DRAIN BACK TO CONDENSATE PIPING ON WALL AND CAP.
3. REMOVE OUTSIDE AIR DUCTWORK ASSOCIATED WITH EXISTING AIR HANDLER BACK TO LOUVER. COVER LOUVER WITH METAL CAP INSULATED WITH 2" THICK INSULATION AND SEAL WEATHER TIGHT.
4. REMOVE OUTSIDE AIR DUCTWORK ASSOCIATED WITH EXISTING AIR HANDLER BACK TO LOUVER. EXTEND NEW OUTSIDE AIR DUCTWORK FROM LOUVER AS SHOWN IN NEW WORK PLAN.

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA
SOUTH CAROLINA No. 35953 REGISTERED PROFESSIONAL ENGINEER CARSON CORBETT 01/19/26

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TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
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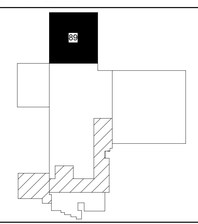
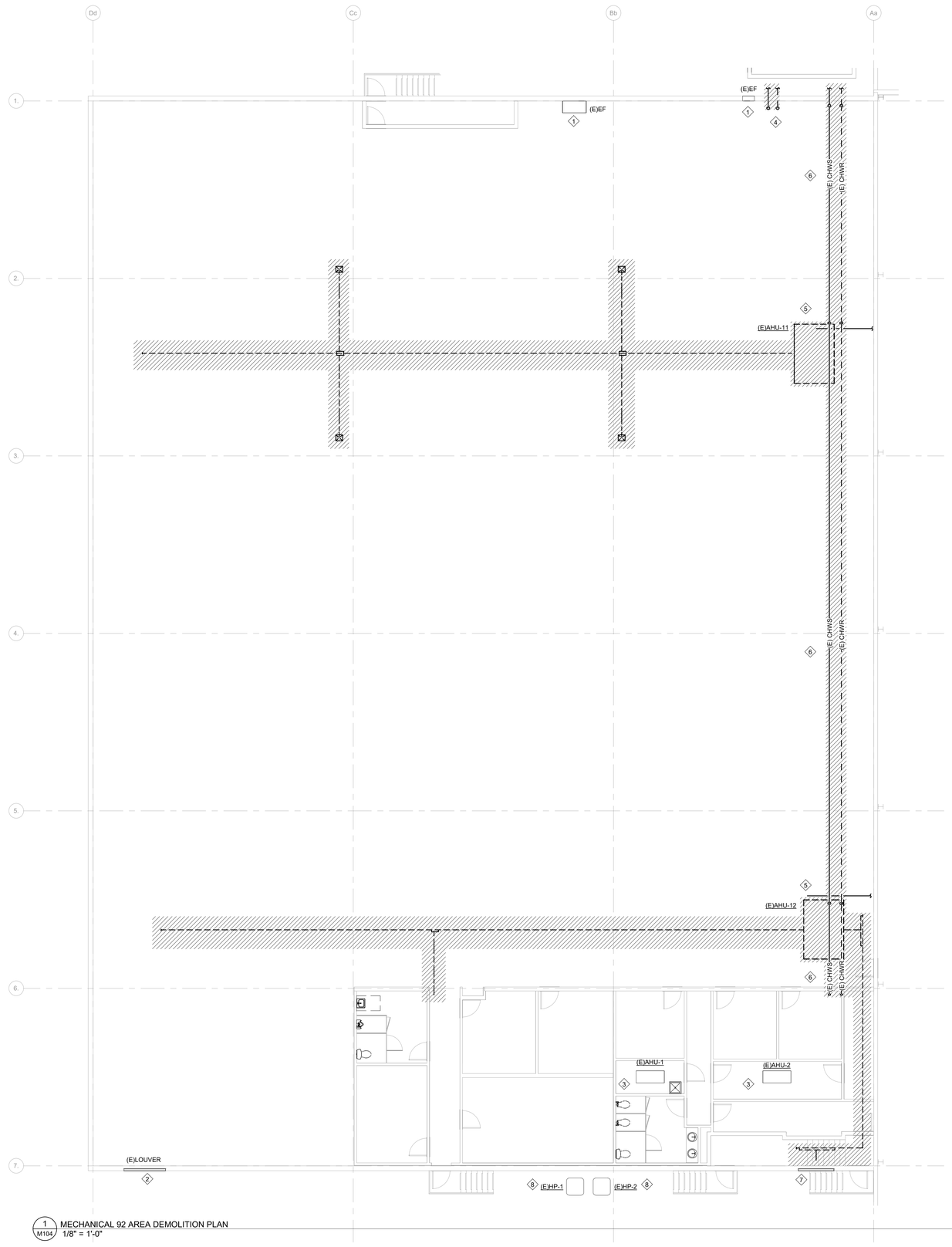


DRAWING NAME
MECHANICAL 89 AREA DEMOLITION PLAN

DRAWING NO.
M103

Drawn By: ASE Checked By: CJC



1 M104 MECHANICAL 92 AREA DEMOLITION PLAN
1/8" = 1'-0"

PLAN GENERAL NOTES:

A. DIAGONAL HATCHING INDICATES EXSITING EQUIPMENT, PIPING, AND DUCTWORK TO BE REMOVED.

PLAN KEYED NOTES: ⟨0⟩

1. EXISTING EXHAUST FAN TO REMAIN
2. EXISTING 8'X8' LOUVER TO REMAIN.
3. EXISTING SPLIT SYSTEM AIR HANDLER ON MEZZANINE TO REMAIN. REFER TO NEW WORK PLAN FOR NEW LABEL.
4. REMOVE EXISTING HWS AND HWR FROM BOILER ROOM TO ELBOW AT WAREHOUSE FLOOR. EXTEND NEW HWS AND HWR AS SHOWN ON NEW WORK PLAN.
5. REMOVE EXISITING AIR HANDLER, THERMOSTAT, CONTROLS WIRING, CONTROLS WIRING CONDUIT, AND ASSOCIATED DUCTWORK. REMOVE CONDENSATE DRAIN BACK TO CONDENSATE PIPING ON WALL AND CAP. REMOVE SPRINKLERS, SPRINKLER PIPING, AND HANGERS FROM UNDER DUCT BACK TO BRANCH AND CAP.
6. REMOVE ALL EXISTING DUAL TEMP PIPING (H/C S AND H/C R) IN THIS WAREHOUSE.
7. REMOVE OUTSIDE AIR DUCTWORK ASSOCIATED WITH EXISTING AIR HANDLER BACK TO LOUVER. EXTEND NEW OUTSIDE AIR DUCTWORK FROM LOUVER AS SHOWN IN NEW WORK PLAN.
8. EXISTING HEAT PUMP TO REMAIN. REFER TO NEW WORK PLAN FOR NEW LABEL.

SOUTH CAROLINA
DEVITA & ASSOCIATES, INC.
No. C00415
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 35953
REGISTERED
PROFESSIONAL ENGINEER
01/19/26

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PROJECT INFORMATION:

SCC
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TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
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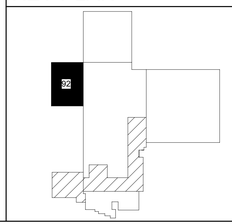
DRAWING NAME
MECHANICAL 92 AREA DEMOLITION PLAN

KEY PLAN



DRAWING NO.
M104

Drawn By: ASE Checked By: CJC

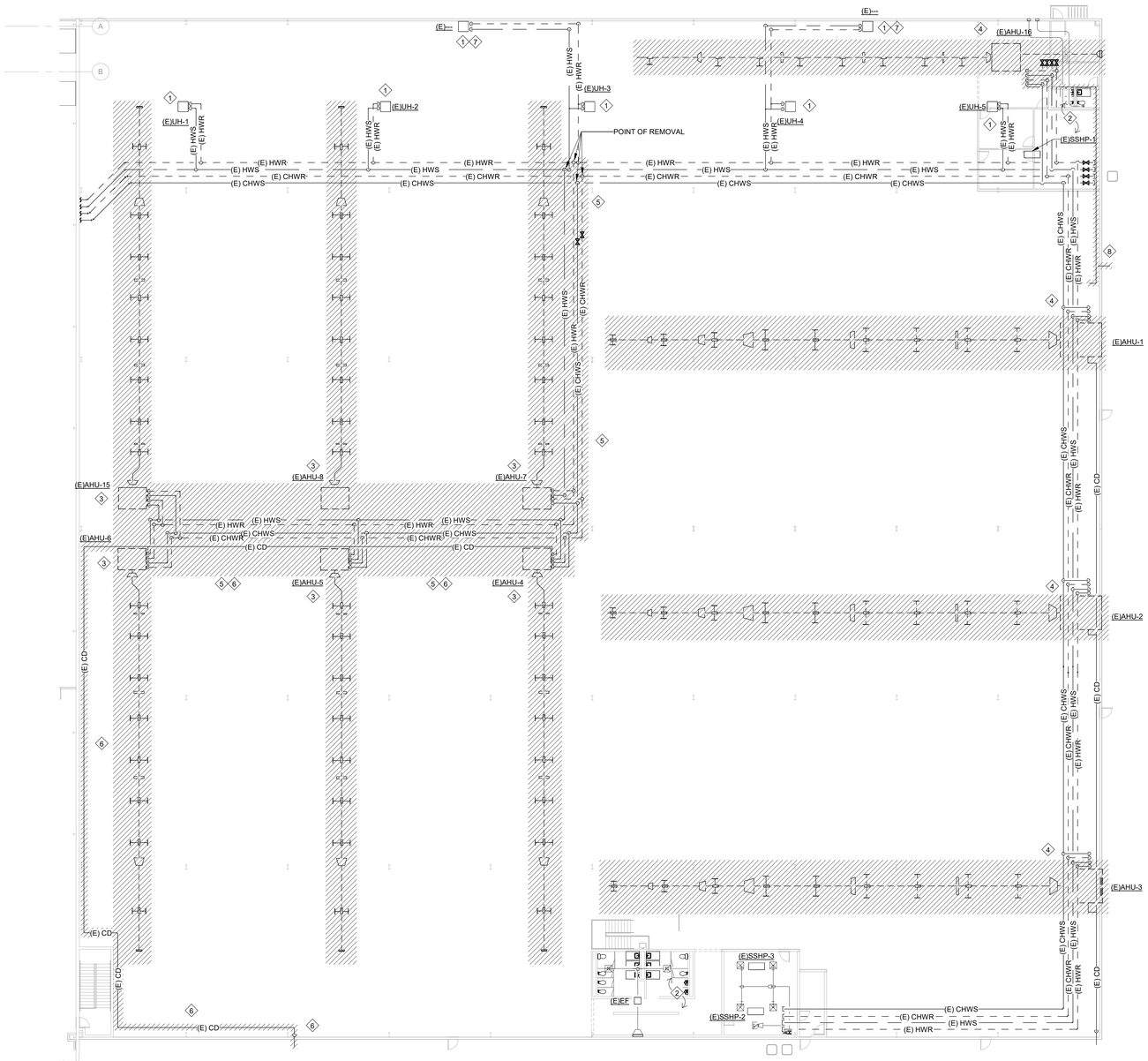
(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"

PLAN GENERAL NOTES:

A. DIAGONAL HATCHING INDICATES EXSITING EQUIPMENT, PIPING, AND DUCTWORK TO BE REMOVED.

PLAN KEYED NOTES: (#)

1. EXISTING UNIT HEATER, CONTROLS, AND ASSOCIATED PIPING AND DUCTWORK TO REMAIN. REFER TO NEW WORK PLAN FOR RELABELING.
2. EXISTING EQUIPMENT ON MEZZANINE TO REMAIN. REFER TO NEW WORK PLANS FOR AIR HANDLER RELABELING.
3. REMOVE EXISITING AIR HANDLER, THERMOSTAT, CONTROLS WIRING, CONTROLS WIRING CONDUIT, AND ASSOCIATED DUCTWORK.
4. REMOVE EXISITING AIR HANDLER, THERMOSTAT, CONTROLS WIRING, CONTROLS WIRING CONDUIT, AND ASSOCIATED DUCTWORK. REMOVE CHWS, CHWR, HWS, HWR PIPING BACK TO HEADER IN CEILING AND CAP. REMOVE CONDENSATE DRAIN BACK TO CONDENSATE PIPING ON WALL AND CAP.
5. REMOVE CHWS, CHWR, HWS, AND HWR PIPING AS SHOWN BACK TO POINT OF REMOVAL AT HEADER SHOWN. EXTEND NEW PIPING AS SHOWN IN NEW WORK PLAN.
6. REMOVE CONDENSATE DRAIN PIPING SERVING EXISTING UNITS AS SHOWN BACK THRU WALL PENETRATION. SEAL WALL PENETRATION WEATHER TIGHT.
7. EXISTING HOT WATER UNIT HEATER EITHER DOES NOT HAVE A TAG OR A TAG WAS NOT ABLE TO BE OBTAINED FROM EXISTING DRAWINGS AND FIELD OBSERVATIONS.
8. REMOVE EXISTING CONDENSATE AS SHOWN AND DOWN THOUGH WALL. SEAL PENETRATION WEATHER TIGHT.



1 / M105 MECHANICAL 94 AREA DEMOLITION PLAN
1/16" = 1'-0"

DEVITA & ASSOCIATES, INC.
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SOUTH CAROLINA
No. 35953
CERTIFIED
CARPENTER
01/19/26
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PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
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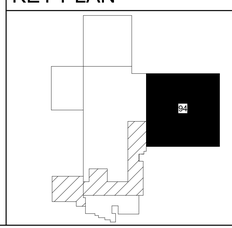
DRAWING NAME
MECHANICAL 94 AREA DEMOLITION PLAN

KEY PLAN



DRAWING NO.
M105

Drawn By: ASE Checked By: CJC

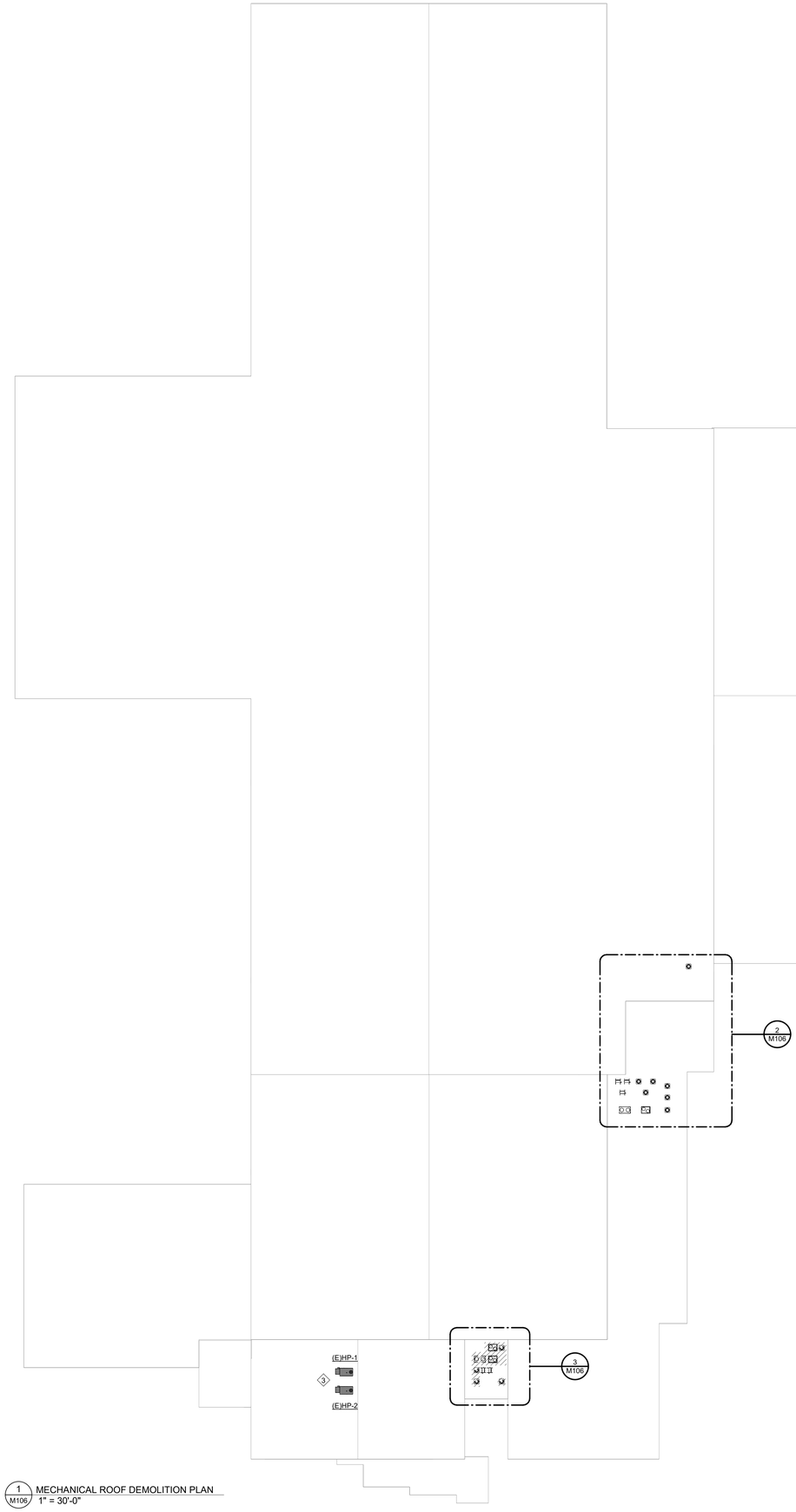
(BAR GRAPHIC IS 4" AT FULL SCALE)

PLAN GENERAL NOTES:

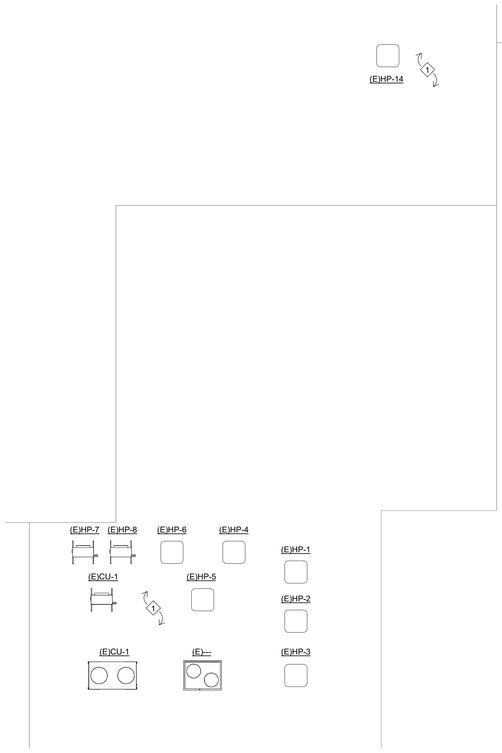
A. DIAGONAL HATCHING INDICATES EXSITING EQUIPMENT, PIPING, AND DUCTWORK TO BE REMOVED.

PLAN KEYED NOTES: (#)

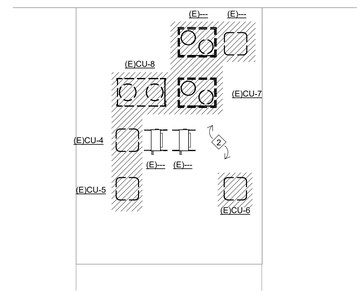
1. EXISTING CONDENSING UNITS AND HEAT PUMPS IN THIS AREA TO REMAIN AND BE RELABELED. REFER TO NEW WORK PLAN AND SCHEDULE SHEET FOR NEW TAGS.
2. REMOVE ROOFTOP MECHANICAL EQUIPMENT AS SHOWN. EXISTING MINI SPLIT CONDENSING UNITS TO REMAIN AND BE RELABELED. REFER TO NEW WORK PLAN AND SCHEDULE SHEET FOR NEW TAGS.
3. EXISTING PACKAGED UNITS TO REMAIN AND BE RELABELED. REFER TO NEW WORK PLAN AND SCHEDULE SHEET FOR NEW TAGS.



1 M106 MECHANICAL ROOF DEMOLITION PLAN
1" = 30'-0"



2 M106 MECHANICAL ROOF DEMOLITION PLAN - EAST CONDENSER FARM
1/8" = 1'-0"



3 M106 MECHANICAL ROOF DEMOLITION PLAN - SOUTH CONDENSER FARM
1/8" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 35953 REGISTERED PROFESSIONAL ENGINEER 01/19/26

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PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
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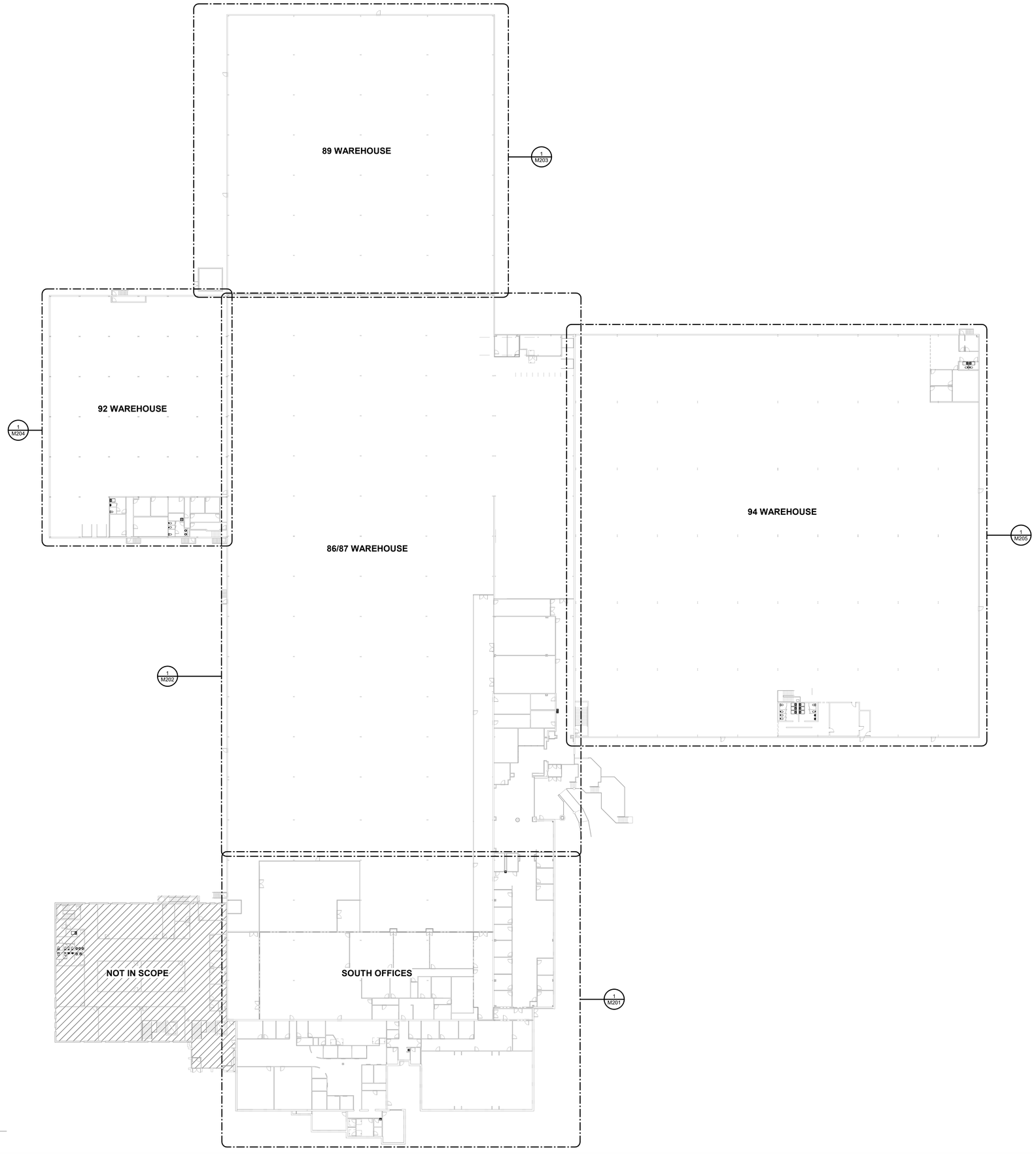
DRAWING NAME
MECHANICAL ROOF DEMOLITION PLAN

DRAWING NO.
M106

Drawn By: ASE Checked By: CJC



1 / M200 MECHANICAL OVERALL NEW WORK PLAN
1" = 30'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 35953 REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER JOSEPH CARPENTER 01/19/26

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PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

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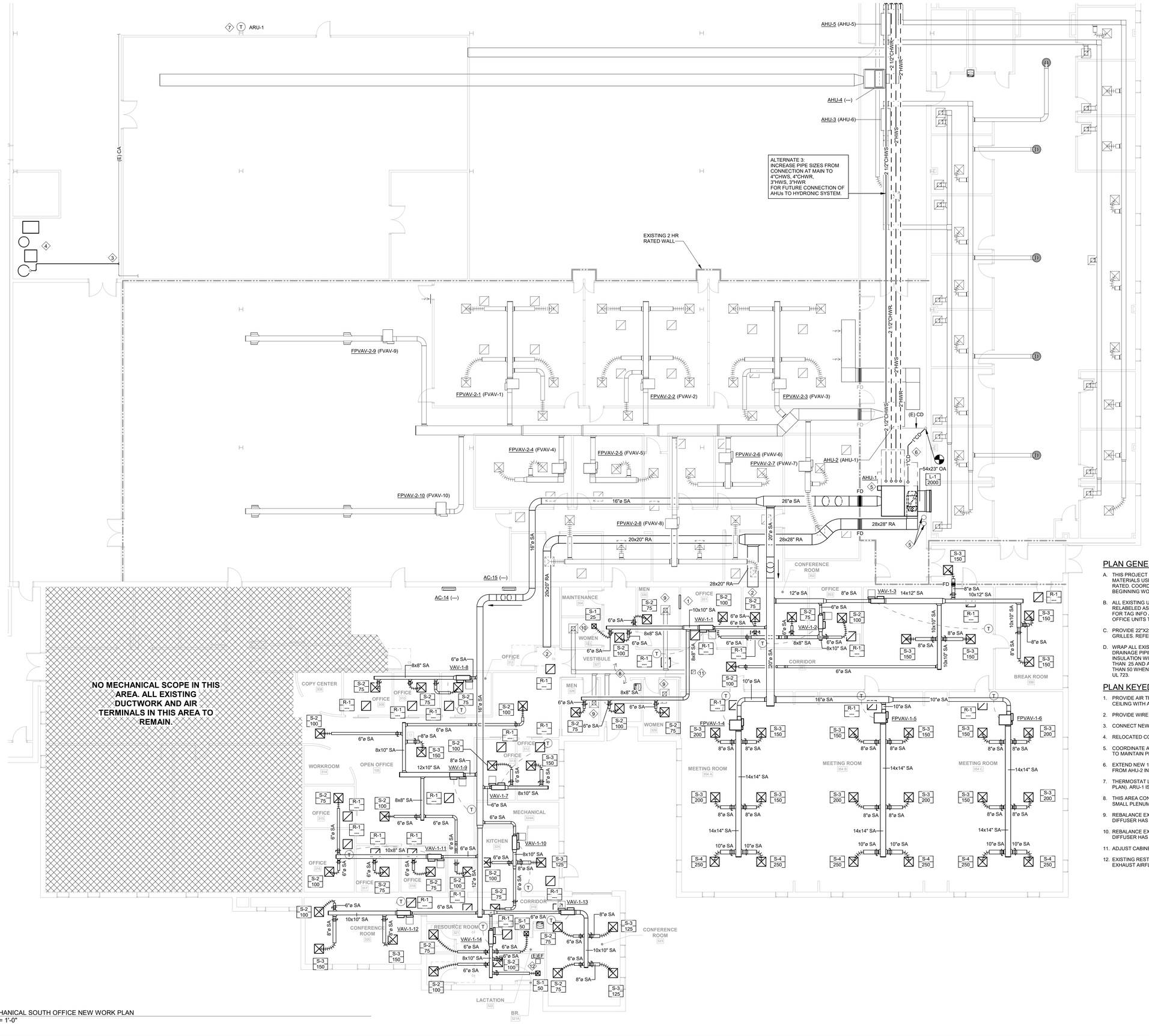
DRAWING NAME
MECHANICAL OVERALL NEW WORK PLAN

DRAWING NO.
M200

Drawn By: ASE Checked By: CJC



1 MECHANICAL SOUTH OFFICE NEW WORK PLAN
M201 1/8" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

PLAN GENERAL NOTES:

A. THIS PROJECT UTILIZES A RETURN AIR PLENUM. ALL MATERIALS USED WITHIN THE PLENUM SHALL BE PLENUM RATED. COORDINATE WITH ALL OTHER TRADES PRIOR TO BEGINNING WORK.

B. ALL EXISTING UNITS IN THE OFFICE SPACES ARE TO BE RELABELED AS SHOWN ON THIS PLAN. REFER TO LEGENDS FOR TAG INFO AND SCHEDULES FOR UNIT INFO REGARDING OFFICE UNITS TO BE RELABELED.

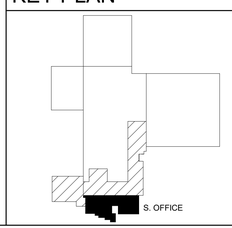
C. PROVIDE 22"X22" SOUND TRAPS ON ALL PLENUM RETURN GRILLES. REFER TO DETAIL 4/M003.

D. WRAP ALL EXISITING PVC SANITARY, VENT, AND STORM DRAINAGE PIPING IN THE SOUTH OFFICE CEILING PLENUM IN INSULATION WITH A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.

PLAN KEYED NOTES:

1. PROVIDE AIR TRANSFER OPENING THRU WALL ABOVE CEILING WITH A MINIMUM FREE AREA OF 1.5 SQFT.
2. PROVIDE WIRE MESH SCREEN ON RETURN DUCT.
3. CONNECT NEW 2"CA TO EXISTING CA PIPING IN THIS AREA.
4. RELOCATED COMPRESSOR, DRYER, AND RECIEVERS.
5. COORDINATE AHU INSTALLATION WITH EXISTING FIRE RISER TO MAINTAIN PROPER CLEARANCES.
6. EXTEND NEW 1"CD AND CONNECT TO EXISTING CONDENSATE FROM AHU-2 IN VERTICAL.
7. THERMOSTAT LOCATION FOR ARU-1 (NOT SHOWN ON THIS PLAN). ARU-1 IS SHOWN ON M202.
8. THIS AREA CONTAINS A DOUBLE CEILING RESULTING IN A SMALL PLENUM SPACE.
9. REBALANCE EXISTING EXHAUST SYSTEM SUCH THAT DIFFUSER HAS AN AIRFLOW OF 100 CFM.
10. REBALANCE EXISTING EXHAUST SYSTEM SUCH THAT DIFFUSER HAS AN AIRFLOW OF 50 CFM.
11. ADJUST CABINET FAN TO ACHIEVE 350 CFM AIRFLOW.
12. EXISTING RESTROOM CABINET FAN. ASSUMED 70 CFM OF EXHAUST AIRFLOW.

KEY PLAN



SEALS

SOUTH CAROLINA DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED Carson Cockrell No. 35959 PROFESSIONAL ENGINEER 01/19/26

DEVITA Engineering Great Ideas
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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No.	H59-6315-JM
DEVITA Project No.	25531
Issue Date:	12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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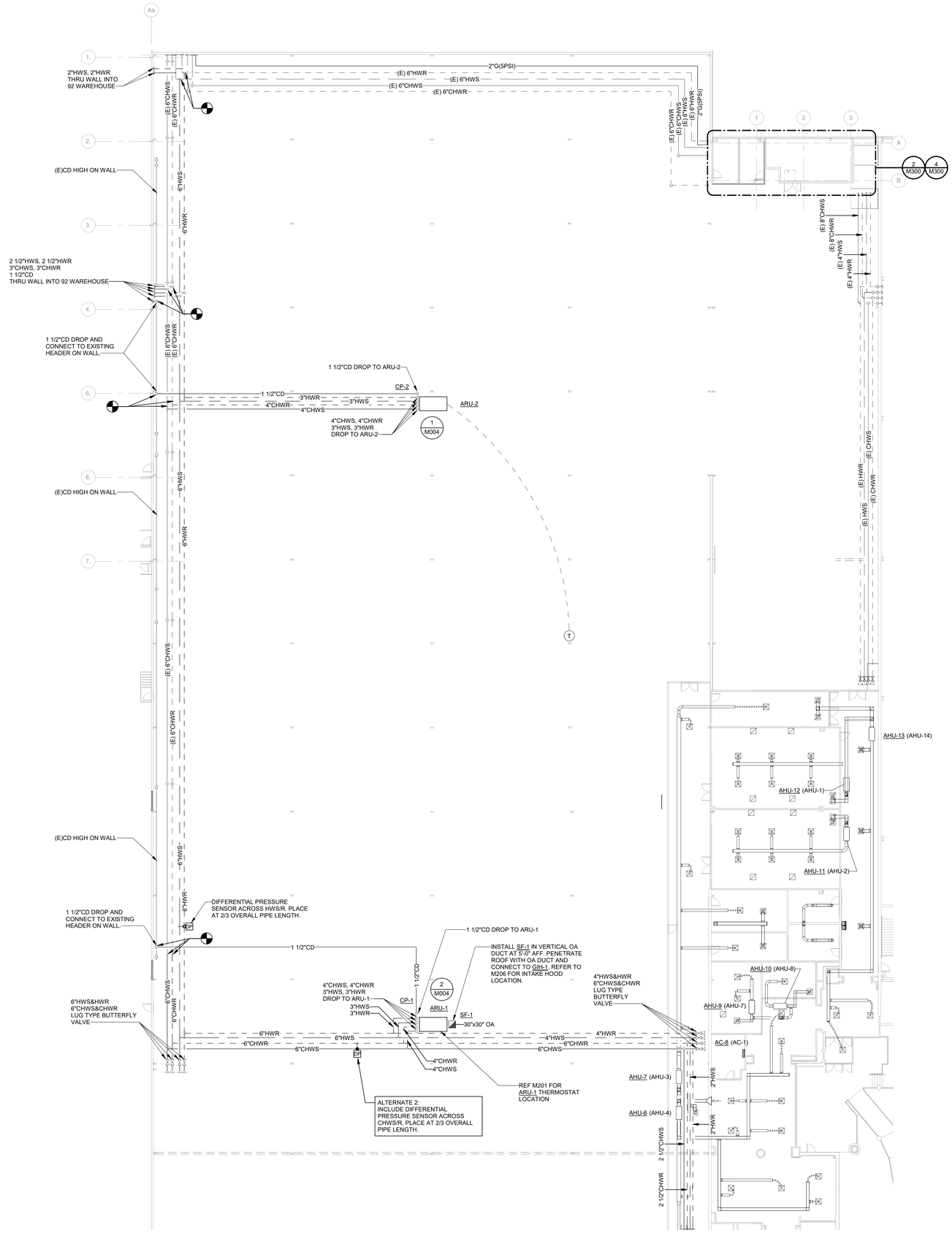
DRAWING NAME
MECHANICAL SOUTH OFFICE NEW WORK PLAN

DRAWING NO.
M201

Drawn By: ASE Checked By: CJC

PLAN GENERAL NOTES:

A. ALL EXISTING UNITS IN THE OFFICE SPACES ARE TO BE RELABELED AS SHOWN ON THIS PLAN. REFER TO LEGENDS FOR TAG INFO AND SCHEDULES FOR UNIT INFO REGARDING OFFICE UNITS TO BE RELABELED.



1 M202 MECHANICAL 86/87 AREA NEW WORK PLAN
1/16" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

DEVITA & ASSOCIATES, INC.
No. C00415
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 35953
CARSON CORBETT
01/19/26

SEALS

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PROJECT INFORMATION:

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DUNCAN, SC 29334

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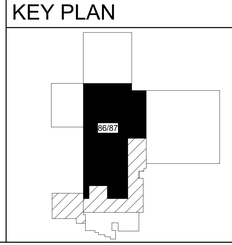
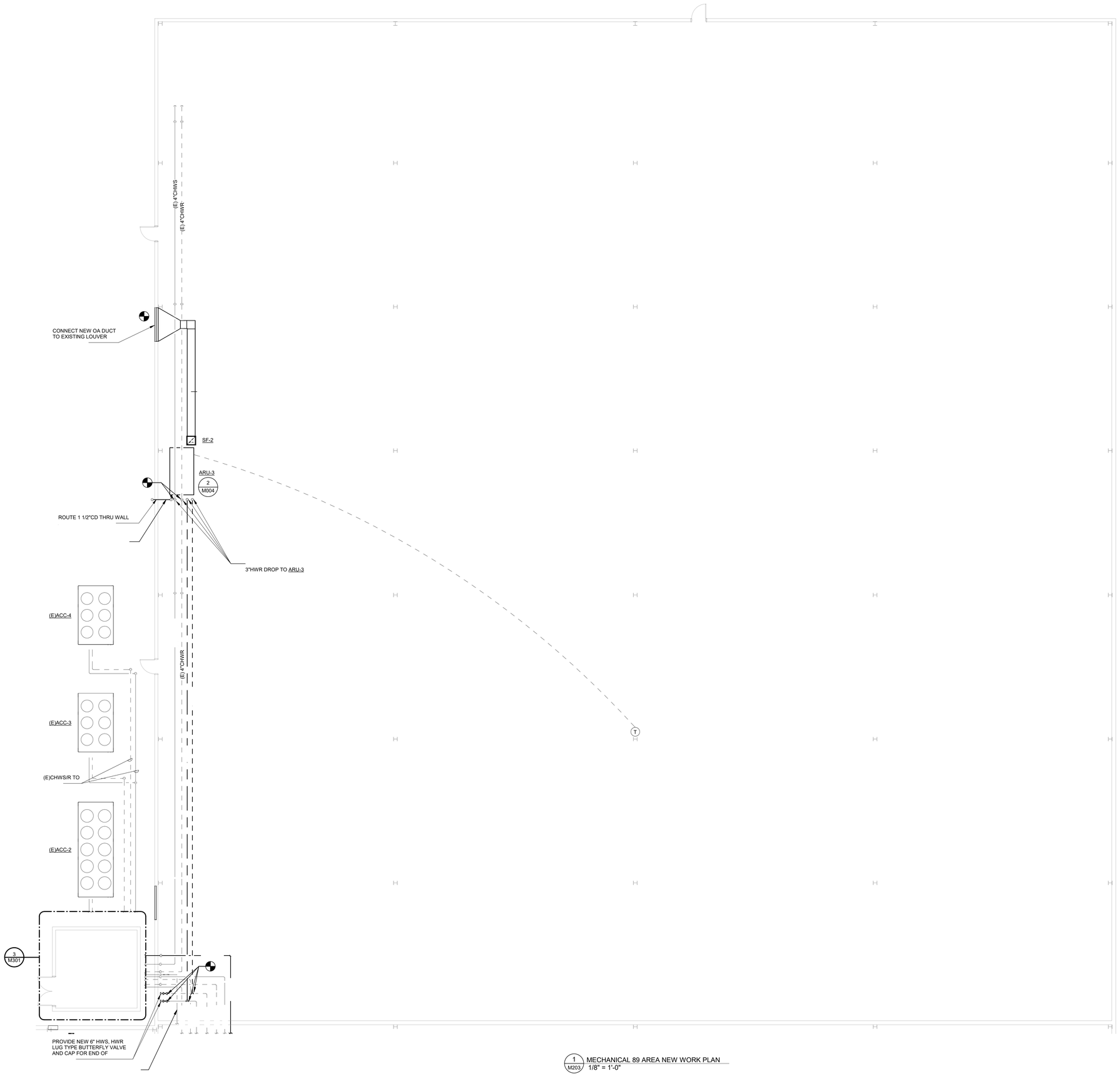


DRAWING NAME
MECHANICAL 86/87 AREA NEW WORK PLAN

DRAWING NO.
M202

Drawn By: ASE Checked By: CJC



1 M203 MECHANICAL 89 AREA NEW WORK PLAN
1/8" = 1'-0"

3"
2"
1"
0"
(BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 35553 CHRISTOPHER JOSEPH CARPENTER 01/19/26

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

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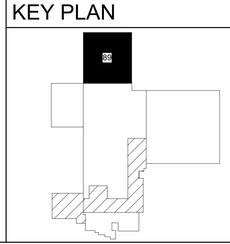
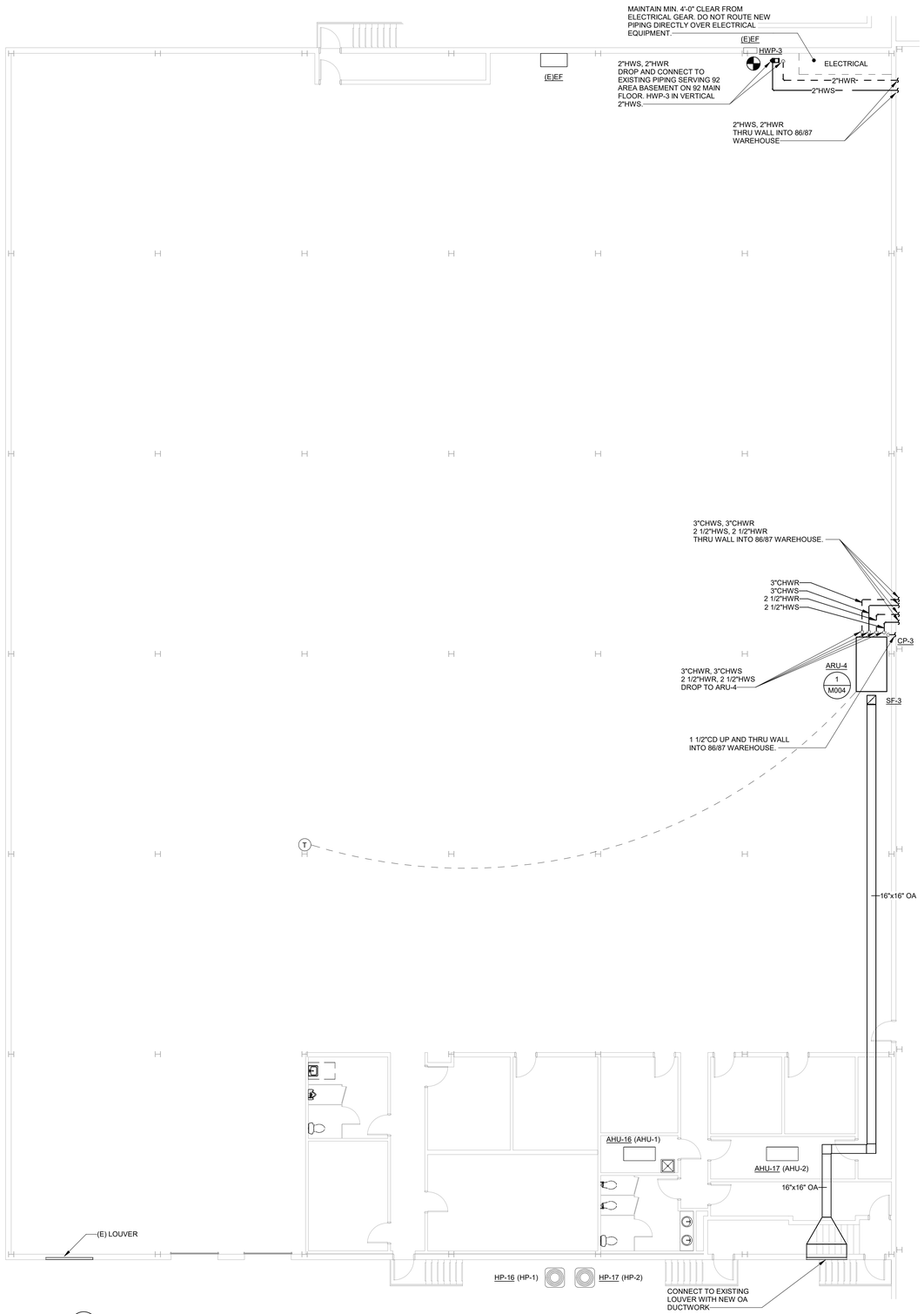


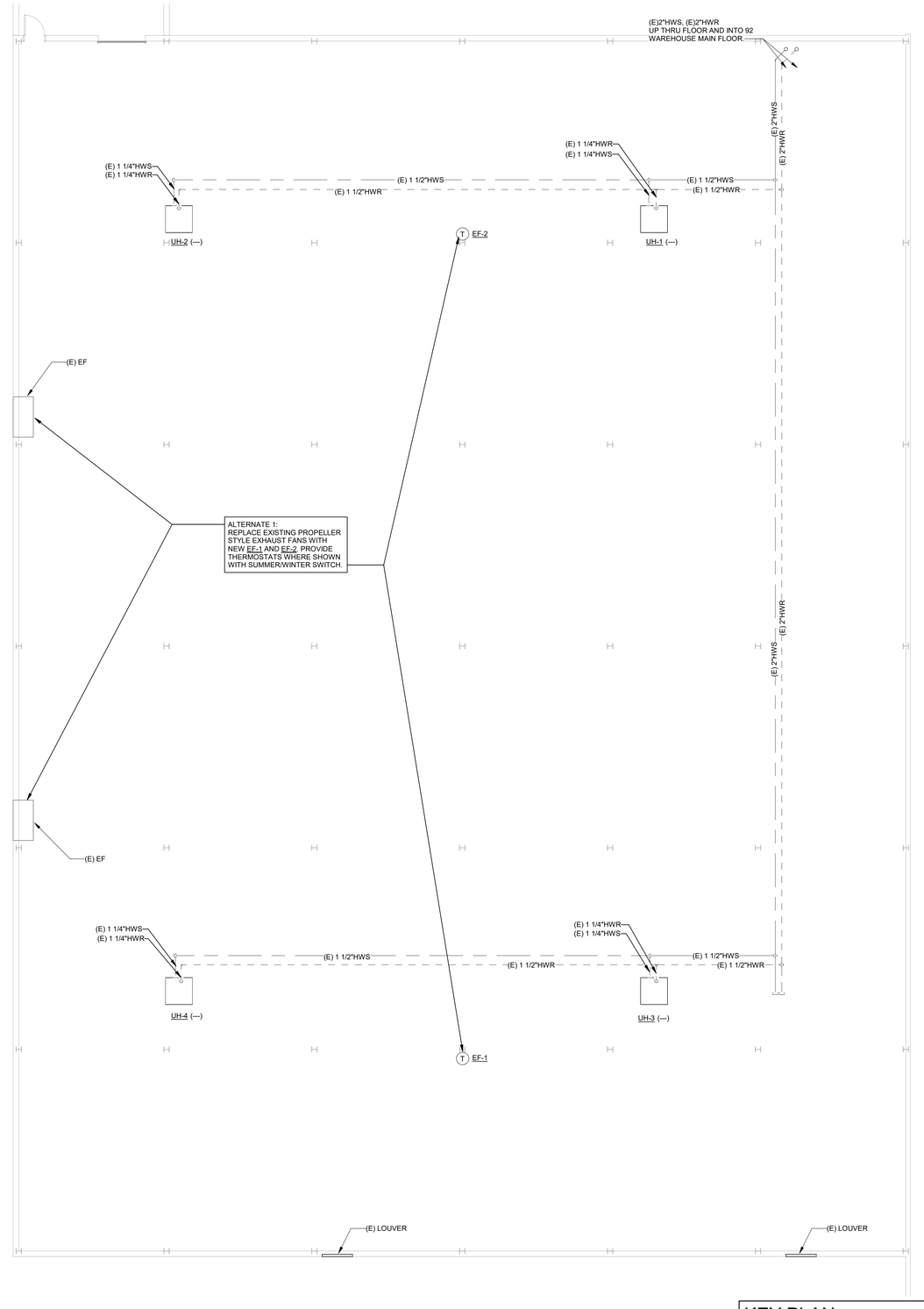
DRAWING NAME
MECHANICAL 89 AREA NEW WORK PLAN

DRAWING NO.
M203

Drawn By: ASE Checked By: CJC



1 M204 MECHANICAL 92 AREA NEW WORK PLAN
1/8" = 1'-0"



2 M204 MECHANICAL 92 BASEMENT AREA NEW WORK PLAN
1/8" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 35953 CARSON CORBETT 01/19/26

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
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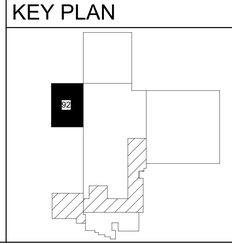
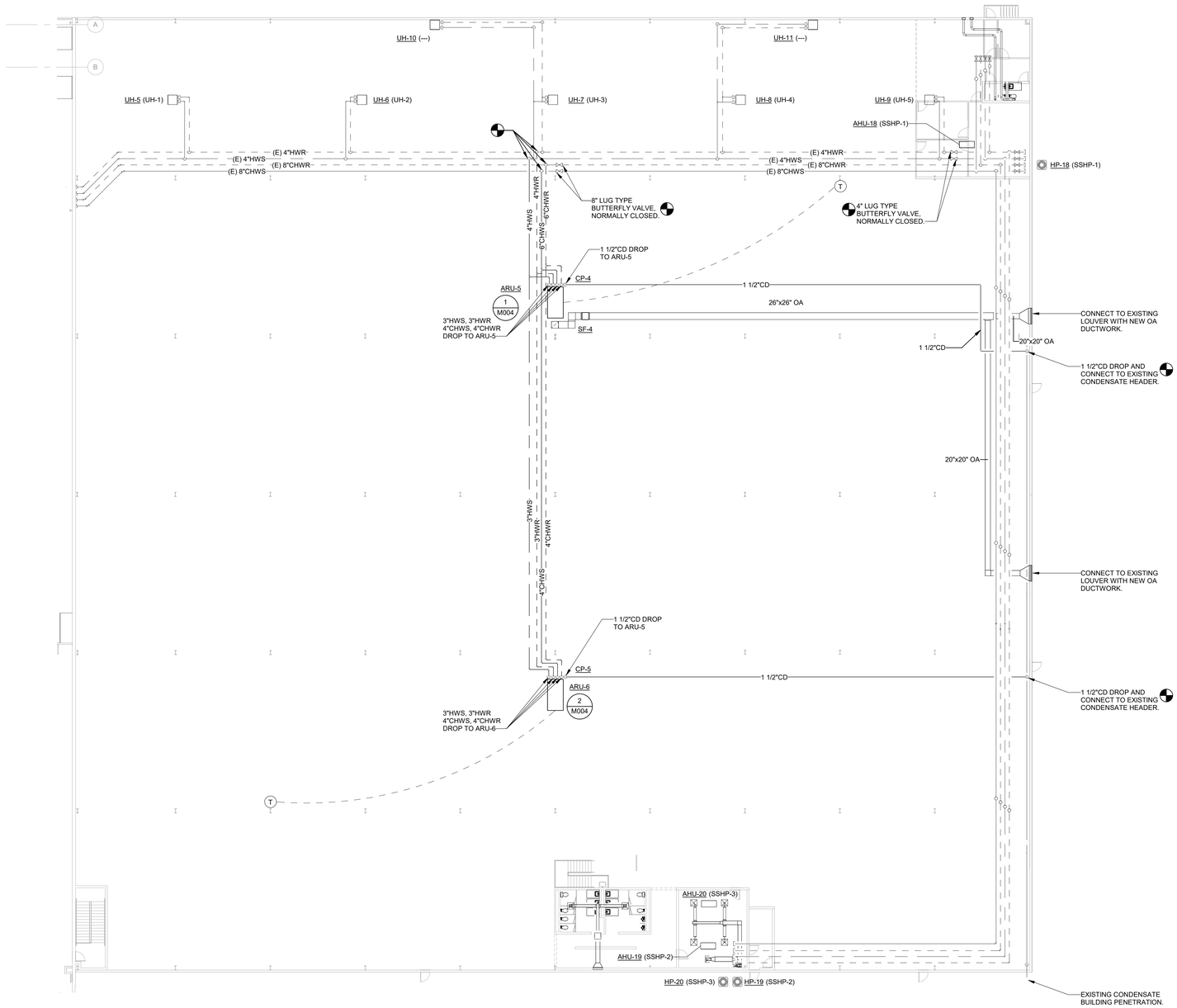


DRAWING NAME
MECHANICAL 92 AREA NEW WORK PLAN

DRAWING NO.
M204

Drawn By: ASE Checked By: CJC



1 M205 MECHANICAL 94 AREA NEW WORK PLAN
1/16" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 35959 CHRISTOPHER JAMES CARMICHAEL 01/19/26

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CONSULTANT

PROJECT INFORMATION:

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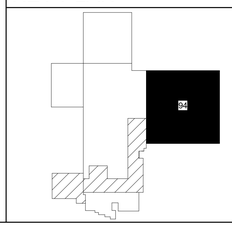
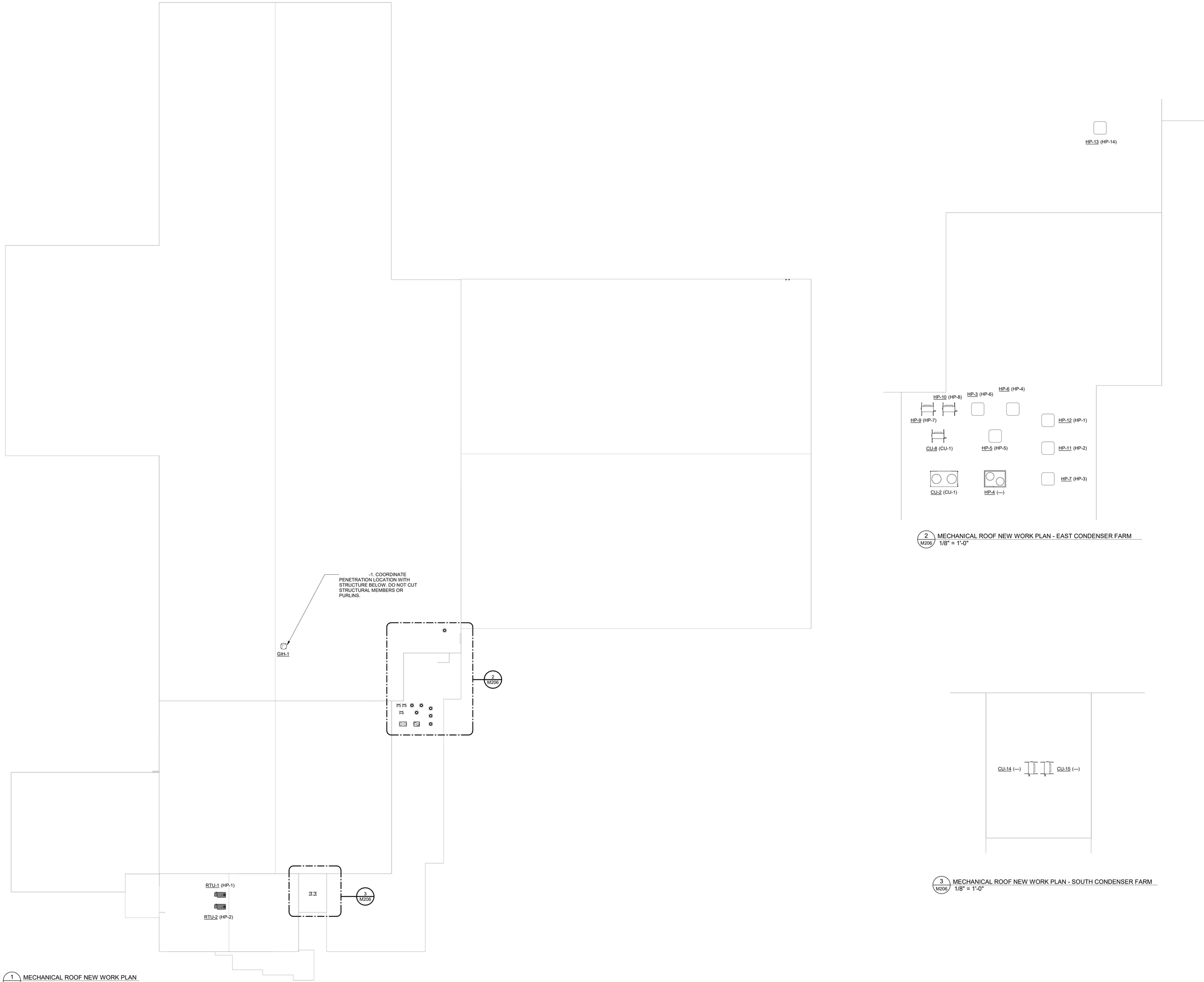


DRAWING NAME
MECHANICAL 94 AREA NEW WORK PLAN

DRAWING NO.
M205

Drawn By: ASE Checked By: CJC



1 M206 MECHANICAL ROOF NEW WORK PLAN
1" = 30'-0"

2 M206 MECHANICAL ROOF NEW WORK PLAN - EAST CONDENSER FARM
1/8" = 1'-0"

3 M206 MECHANICAL ROOF NEW WORK PLAN - SOUTH CONDENSER FARM
1/8" = 1'-0"

0" 1" 2" 3" 4"
(BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 35953 REGISTERED PROFESSIONAL ENGINEER Carolyn Comfort 01/19/26

CONSULTANT

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PROJECT INFORMATION:

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DRAWING NAME
MECHANICAL ROOF PLAN

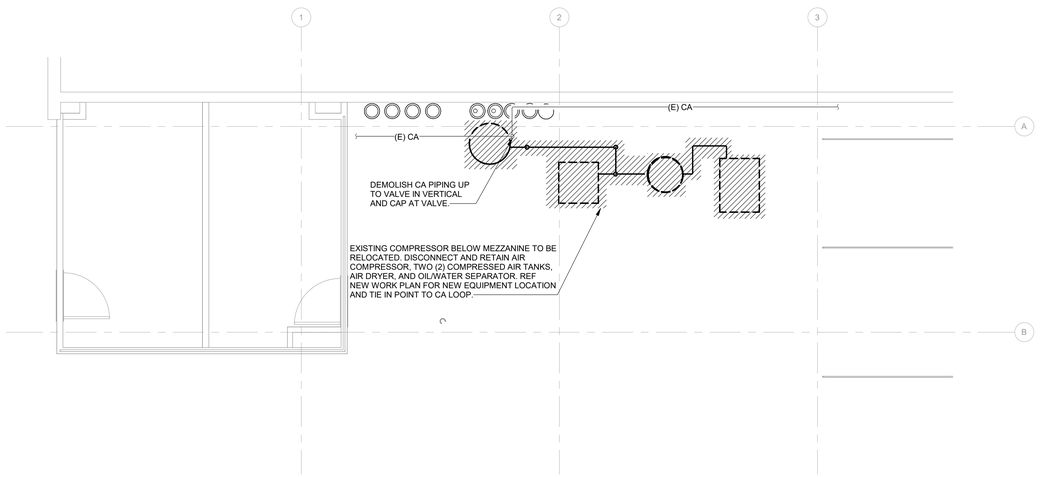
DRAWING NO.
M206

Drawn By: ASE Checked By: CJC

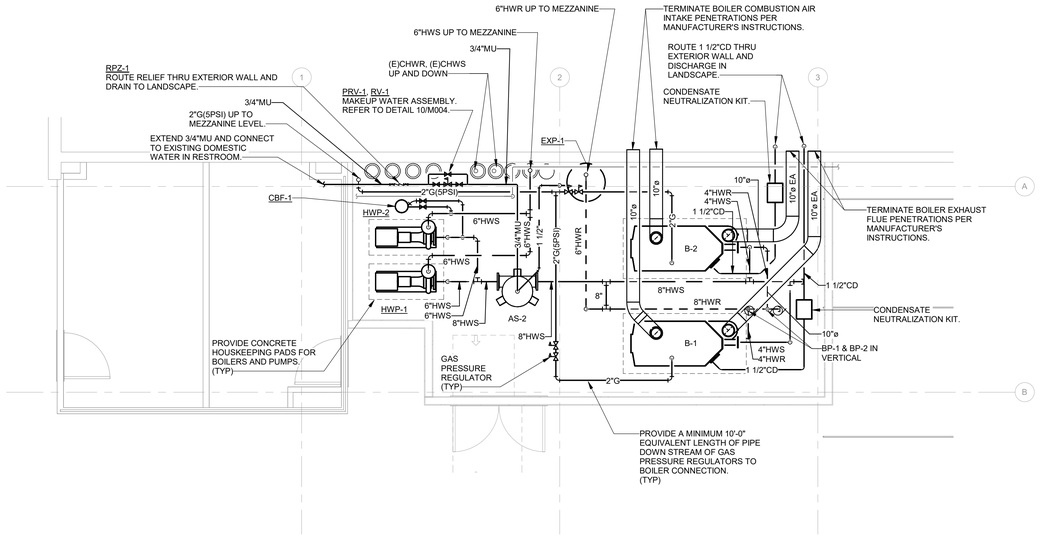
PLAN GENERAL NOTES:

A. DIAGONAL HATCHING INDICATES EXSITING EQUIPMENT, PIPING, AND DUCTWORK TO BE REMOVED.

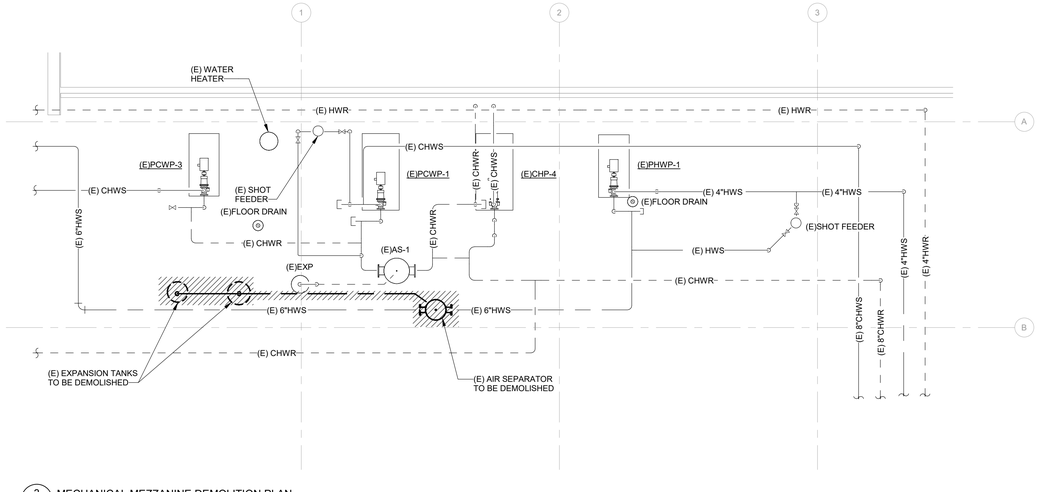
B. UPON COMPLETION OF NEW BOILER INSTALLATION, BOILERS SHALL BE INSPECTED BY SC LLR AND RECIEVE A BOILER CERTIFICATE PRIOR TO PROJECT COMPLETION. BOILER CERTIFICATE SHALL BE PROMINENTLY DISPLAYED INSIDE THE BOILER ROOM. PAY ALL FEES ASSOCIATED WITH BOILER INSPECTION AND ENSURE THAT THE INSPECTION IS PERFORMED IN A TIMELY MANNER TO MAINTAIN PROJECT TIMELINE.



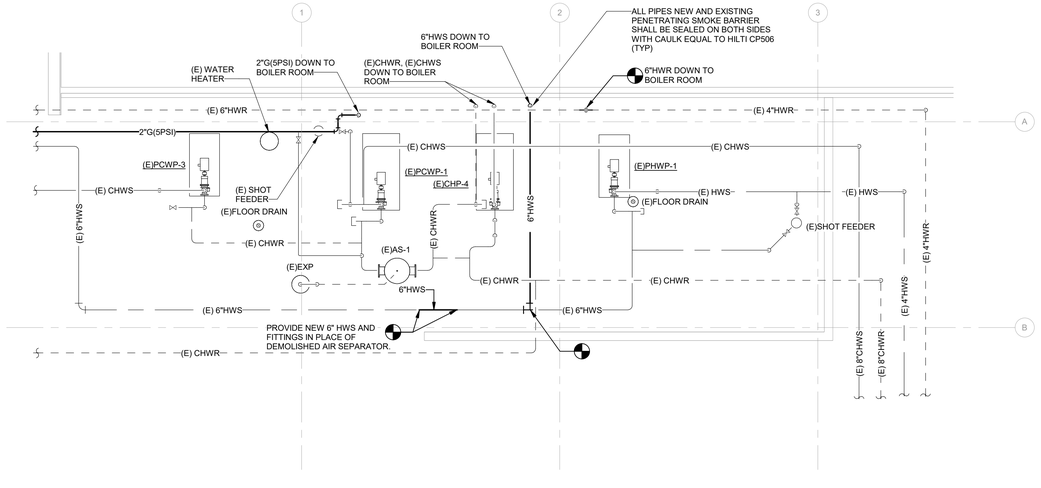
1 M300 MECHANICAL BELOW MEZZANINE DEMOLITION PLAN
1/4" = 1'-0"



2 M300 MECHANICAL 86/87 NEW BOILER ROOM PLAN
1/4" = 1'-0"



3 M300 MECHANICAL MEZZANINE DEMOLITION PLAN
1/4" = 1'-0"



4 M300 MECHANICAL MEZZANINE NEW WORK PLAN
1/4" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA

Carson Combs No. 35953 REGISTERED PROFESSIONAL ENGINEER SOUTH CAROLINA 01/19/26

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CONSULTANT

PROJECT INFORMATION:

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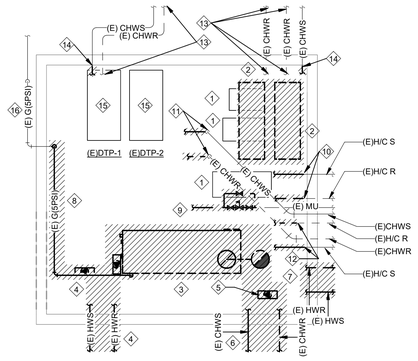
DRAWING NAME
MECHANICAL ENLARGED NEW BOILER AREA PLANS

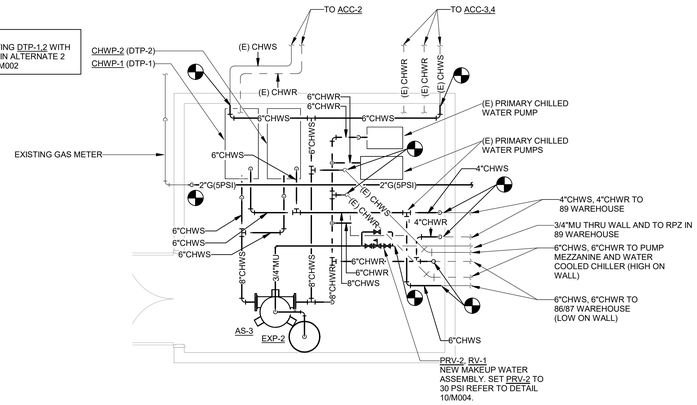
DRAWING NO.
M300

Drawn By: ASE Checked By: CJC

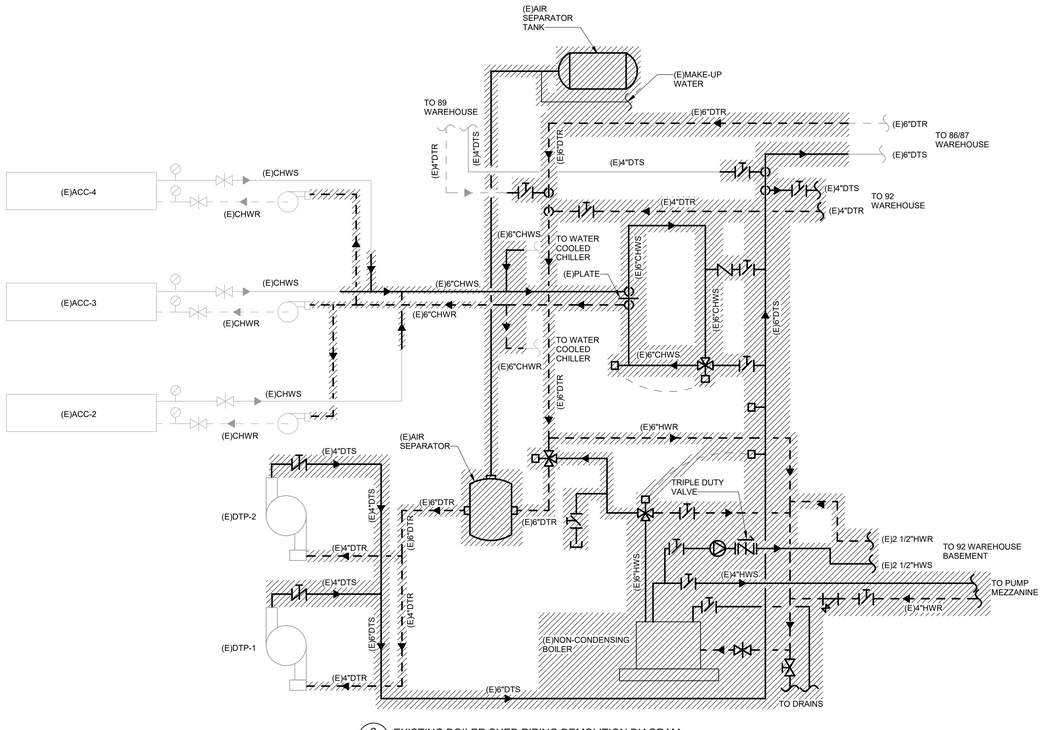


1 M301 EXISTING BOILER SHED DEMOLITION PLAN
1/4" = 1'-0"

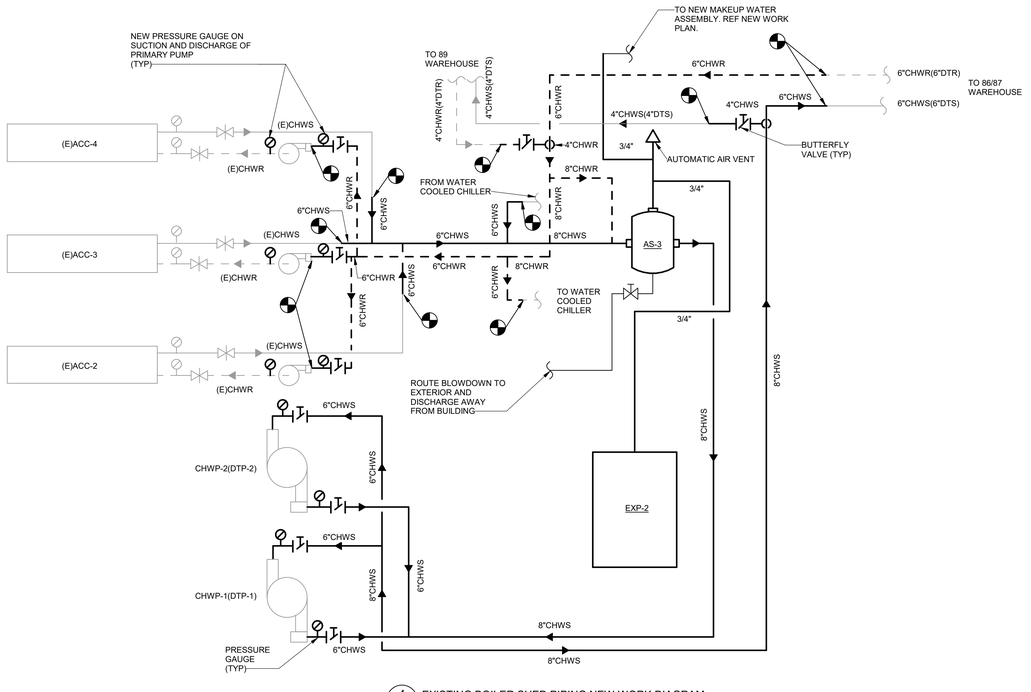
ALTERNATE 2:
REPLACE EXISTING DTP-1,2 WITH NEW CHWP-1,2 IN ALTERNATE 2 SCHEDULE ON M002



3 M301 EXISTING BOILER SHED NEW WORK PLAN
1/4" = 1'-0"



2 M301 EXISTING BOILER SHED PIPING DEMOLITION DIAGRAM
NOT TO SCALE



4 M301 EXISTING BOILER SHED PIPING NEW WORK DIAGRAM
NOT TO SCALE

(BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

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DRAWING NAME
MECHANICAL ENLARGED EXISTING BOILER AREA PLANS

DRAWING NO.
M301

Drawn By: ASE Checked By: CJC

PLAN GENERAL NOTES:

A. DIAGONAL HATCHING INDICATES EXSITING EQUIPMENT, PIPING, AND DUCTWORK TO BE REMOVED.

B. NOT ALL EXISTING PIPING AND EQUIPMENT IS SHOWN. THE LIST BELOW INDICATES WHAT IS TO BE REMOVED AND WHAT IS TO REMAIN IN THE EXISTING BOILER SHED. REFER TO DIAGRAMS 2 AND 4 ON THIS SHEET FOR CLARIFICATION ON PIPING SCOPE IN EXISTING BOILER ROOM.
   a. REMOVE THE FOLLOWING EQUIPMENT AND ASSOCIATED PIPING FROM BOILER ROOM:
      - BOILER & CHIMNEY
      - EXPANSION TANKS
      - AIR SEPARATOR
      - BOILER PUMPS
      - ROOF COOLING SYSTEM PUMP AND PIPING
   b. EQUIPMENT TO REMAIN IN BOILER ROOM AFTER DEMOLITION IS:
      - DUAL TEMPERATURE BUILDING PUMPS
      - PRIMARY PUMPS SERVING ACC-2, ACC-3, AND ACC-4.

PLAN KEYED NOTES:

1. EXISTING PRIMARY CHILLED WATER PUMPS TO REMAIN. REMOVE CHWR PRIMARY PIPING ON SUCTION SIDE OF PUMP. EXTEND NEW CHWR PIPING AS SHOWN IN NEW WORK PLAN.
2. REMOVE EXISTING EXPANSION TANKS AND ASSOCIATED PIPING.
3. REMOVE EXISTING BOILER,, FLUE, BOILER PRIMARY PUMPS, AND ASSOCIATED HOT WATER PIPING. REFER TO DIAGRAM 2/M301.
4. REMOVE EXISTING HOT WATER PUMP AND PIPING SERVING 92 WAREHOUSE BASEMENT. SEAL WALL PENETRATION WEATHER TIGHT.
5. REMOVE EXISTING PUMP, PIPING, AND CONTROLS SERVING ROOF COOLING SPRINKLER SYSTEM.
6. REMOVE EXISTING H/C S, H/C R PIPING SERVING 92 WAREHOUSE. SEAL WALL PENETRATION WEATHER TIGHT.
7. REMOVE EXISTING HOT WATER PIPING TO PUMP MEZZANINE INTO 89 WAREHOUSE AND CAP.
8. REMOVE EXISTING NATURAL GAS PIPING AND REGULATOR BACK TO VERTICAL RISE INSIDE BOILER SHED. EXTEND AS SHOWN IN NEW WORK PLAN.
9. REMOVE MAKEUP WATER PIPING BACK TO AND INCLUDING MAKEUP WATER ASSEMBLY. EXTEND AS SHOWN IN NEW WORK PLAN.
10. REMOVE H/C S, H/S R PIPING TO 89 WAREHOUSE BACK TO ENTRANCE INTO BOILER SHED. EXTEND AS SHOWN IN NEW WORK PLAN.
11. REMOVE CHWS, CHWR PIPING SERVING PUMP MEZZANINE BACK TO ENTRANCE INTO BOILER SHED. EXTEND AS SHOWN IN NEW WORK PLAN.
12. REMOVE H/C S, H/S R PIPING TO 86/87 WAREHOUSE BACK TO ENTRANCE INTO BOILER SHED. EXTEND AS SHOWN IN NEW WORK PLAN.
13. EXISTING PRIMARY SIDE CHWR PIPING FROM PRIMARY PUMPS IN BOILER SHED AND TO AIR COOLED CHILLERS TO REMAIN. RE-INSULATE ALL CHWS/R PIPING TO REMAIN IN BOILER ROOM.
14. REMOVE EXISTING PRIMARY SIDE CHWS PIPING BACK TO ENTRANCE INTO BOILER SHED. EXTEND AS SHOWN IN NEW WORK PLAN.
15. EXISTING SECONDARY PUMPS DTP-1 AND DTP-2 TO REMAIN. CONNECTED PIPING TO BE REMOVED. REFER TO DIAGRAM 2/M301 FOR PIPING DEMOLITION SCOPE. REFER TO NEW WORK PLAN FOR RELABELING AND NEW CONNECTIONS.
16. EXISTING GAS METER IN THIS AREA TO REMAIN.

AHU-1 OFFICE

CONTROL OF UNIT WILL BE FROM BMS.

A. AIR HANDLING UNITS, VARIABLE AIR VOLUME SERVING TERMINAL UNITS:
   1. FANS, NORMAL MODE:
      A. THE SUPPLY FAN SHALL OPERATE WHEN THE AHU CONTROL IS SET TO HAND OR AUTOMATIC. WHEN THE AHU CONTROL IS SET TO OFF, THE FANS SHALL BE DE-ENERGIZED.
      B. SUPPLY FAN CONTROL:
         1) THE SUPPLY FAN VFD SHALL CONTROL THE SPEED OF THE FAN TO MAINTAIN THE OPERATOR ADJUSTABLE STATIC PRESSURE SETPOINT AT THE REMOTE STATIC PRESSURE SENSOR.
         2) THE STATIC PRESSURE SENSOR SHALL BE LOCATED IN THE SUPPLY DUCT APPROXIMATELY 2/3 OF THE DISTANCE BETWEEN THE AIR HANDLER AND THE FURTHEST PORTION OF THE MEDIUM PRESSURE SUPPLY DUCT.
         3) LOSS OF SIGNAL FROM THE STATIC PRESSURE SENSOR WILL CAUSE THE SUPPLY FAN TO OPERATE AT MINIMUM SPEED.
      C. THE FOLLOWING SIGNALS WILL DE-ENERGIZE THE FANS:
         1) LOW TEMPERATURE LIMIT SIGNAL FROM THE LOW TEMPERATURE SENSOR (FREEZESTAT).
         2) HIGH FAN DISCHARGE PRESSURE.
         3) LOSS OF POWER TO THE CONTROL PANEL.
   2. SMOKE SEQUENCE – SHUTDOWN:
      A. UPON SIGNAL FROM THE FIRE ALARM SYSTEM FOR RETURN AIR SMOKE DETECTOR, SPACE SMOKE DETECTOR OR SPRINKLER SYSTEM ACTIVATED, THE AIR HANDLER SHALL SHUT DOWN.
   3. UNOCCUPIED MODE:
      A. ON AN OPERATOR ADJUSTABLE SCHEDULE THE AHU SHALL ENTER AN UNOCCUPIED SETBACK MODE. IN THIS MODE, THE AIR HANDLER SHUTS DOWN UNLESS TWO OR MORE SPACE THERMOSTATS ARE CALLING FOR COOLING OR HEATING. THE AIR HANDLER CYCLES ON LONG ENOUGH TO SATISFY THE THERMOSTATS AND THEN CYCLES OFF AGAIN.
   4. SHUTDOWN MODE: THE FOLLOWING APPLIES WHEN THE AIR HANDLER IS SHUTDOWN:
      A. THE OUTSIDE AIR DAMPER WILL BE CLOSED. THE RETURN DAMPER SHALL BE OPEN.
      B. WHEN OUTSIDE AIR TEMPERATURE IS ABOVE 40F, THE CHILLED WATER VALVE AND THE PREHEAT VALVE WILL BE CLOSED.
      C. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 40F, THE PREHEAT AND CHILLED WATER VALVES WILL OPEN.
   5. FILTERS:
      A. PROVIDE MAGNEHELIC STYLE DIFFERENTIAL PRESSURE GAGES ACROSS FILTER BANKS.
      B. PROVIDE FILTER STATUS (CLEAN/REPLACE) TO THE BMS. THE DIFFERENTIAL PRESSURE ACROSS THE FILTER SHALL BE DISPLAYED ON THE AIR HANDLER GRAPHIC. THE DIFFERENTIAL PRESSURE POINT FOR REPLACE STATUS SHALL BE USER ADJUSTABLE.

B. TERMINAL UNITS:
   1. EACH VAV TERMINAL SHALL BE PROVIDED WITH A THERMOSTAT LOCATED WITHIN THE SPACE. THE THERMOSTAT SHALL PROVIDE A WARMER/COOLER SETPOINT ADJUSTER, AN UNOCCUPIED MODE OVERRIDE SWITCH, A SPACE TEMPERATURE DISPLAY, AND A DIAGNOSTIC JACK. THE ROOM TEMPERATURE SETPOINT SHALL BE ADJUSTABLE BY THE OCCUPANT WITHIN PRESELECTED LIMITS BY THE SETPOINT ADJUSTER ON THE ROOM THERMOSTAT. THE DDC SYSTEM OPERATOR SHALL BE ABLE TO ADJUST THE SPACE TEMPERATURE LIMITS AND AIR FLOW RATES. THE DDC SYSTEM OPERATOR SHALL BE ABLE TO OVERRIDE THE ROOM THERMOSTAT AND CONTROL THE TERMINAL UNIT REMOTELY, INCLUDING SETTING THE ROOM TEMPERATURE SETPOINT (FOR AUTOMATIC OPERATION) OR COMMANDING THE DAMPER OR REHEAT COIL TO A FIXED POSITION (0-100%).
   2. PROVIDE DISCHARGE TEMPERATURE SENSORS ON ALL SUPPLY TERMINAL UNITS.
   3. WHEN COMMANDED TO CHANGE OVER TO UNOCCUPIED MODE, TERMINAL CONTROLLER SHALL RAISE THE COOLING SETPOINT AND LOWER THE HEATING SETPOINT TO SYSTEM OPERATOR ADJUSTABLE VALUES. DEPRESSING THE LOCAL OVERRIDE SWITCH SHALL RESET THE CONTROLLER TO THE OCCUPIED MODE SETPOINTS FOR A SYSTEM OPERATOR ESTABLISHED PERIOD OF TIME. AT THE END OF THAT TIME PERIOD, THE CONTROLLER SHALL AUTOMATICALLY SWITCH BACK TO THE UNOCCUPIED MODE SETPOINTS.
   4. SINGLE DUCT VARIABLE AIR VOLUME TERMINAL UNITS WITH ELECTRIC REHEAT: THE VAV CONTROLLER SHALL MODULATE THE SUPPLY AIR DAMPER AND THE REHEAT COIL IN SEQUENCE AS REQUIRED TO MAINTAIN THE AIR FLOW RATE AND THE TEMPERATURE SETPOINT. ON A RISE IN TEMPERATURE ABOVE THE COOLING SETPOINT, THE CONTROLLER SHALL MODULATE THE SUPPLY AIR DAMPER TOWARDS MAXIMUM AIRFLOW POSITION. ON A FALL IN TEMPERATURE BELOW THE COOLING SETPOINT, THE CONTROLLER SHALL MODULATE THE SUPPLY AIR DAMPER TO THE MINIMUM AIR FLOW POSITION. THE ELECTRIC REHEAT COIL SHALL NOT OPEN UNTIL THE ROOM TEMPERATURE IS BELOW THE HEATING SETPOINT AND SHALL ENGAGE THE FIRST STAGE OF HEATING. ON CONTINUED FALL IN TEMPERATURE BELOW THE HEATING SETPOINT, THE CONTROLLER SHALL ENGAGE ALL STAGES OF HEATING. ON RISE IN TEMPERATURE ABOVE THE HEATING SETPOINT, THE CONTROLLER WILL DEENERGIZE THE ELECTRIC REHEAT COIL.
   5. FAN POWERED VARIABLE AIR VOLUME TERMINAL UNITS WITH ELECTRIC REHEAT: THE VAV CONTROLLER SHALL MODULATE THE SUPPLY AIR DAMPER AND THE REHEAT COIL IN SEQUENCE AS REQUIRED TO MAINTAIN THE AIR FLOW RATE AND THE TEMPERATURE SETPOINT. ON A RISE IN TEMPERATURE ABOVE THE COOLING SETPOINT, THE CONTROLLER SHALL MODULATE THE SUPPLY AIR DAMPER TOWARDS MAXIMUM AIRFLOW POSITION. ON A FALL IN TEMPERATURE BELOW THE COOLING SETPOINT, THE CONTROLLER SHALL MODULATE THE SUPPLY AIR DAMPER TO THE MINIMUM AIR FLOW POSITION. WHEN THE ROOM TEMPERATURE IS BELOW THE HEATING SETPOINT THE FAN SHALL BE ENEGAGED. ON CONTINUED FALL IN TEMPERATURE BELOW THE HEATING SETPOINT THE CONTROLLER SHALL ENGAGE THE FIRST STAGE. WITH FAN AND FIRST STAGE OF HEATING ENGAGED, IF THE TEMPERATURE CONTINUES TO FALL THE CONTROLLER SHALL ENGAGE ALL STAGES OF HEATING. ON RISE IN TEMPERATURE ABOVE THE HEATING SET POINT, THE CONTROLLER WILL DEENERGIZE THE ELECTRIC REHEAT COIL AND THE PLENUM AIR FAN.

ARU-1 THROUGH ARU-6 WAREHOUSE SPACES

CONTROL OF UNIT SHALL BE FROM THE BMS.

A. THE UNIT SHALL BE SET UP FOR OCCUPIED AND UNOCCUPIED MODES WITH A 1 HR ADJUSTABLE OVERRIDE AT THE THERMOSTAT
   a. IN OCCUPIED MODE, UNITS WITH OUTSIDE AIR FANS SHALL HAVE FANS ENGAGED AND SUPPLY FANS SHALL BE ON. COOLING AND HEATING COILS SHALL MODULATE TO MAINTAIN SET POINTS.
   b. IN UNOCCUPIED MODE, OUTSIDE AIR FANS SHALL BE OFF. SUPPLY FANS AND COOLING AND HEATING COILS SHALL MODULATE TO MAINTAIN SET POINTS.

CHWP-1,2 PUMPS EXISTING BOILER SHED

CONTROL OF THE UNIT SHALL BE FROM THE BMS.

A. ON A CALL FOR COOLING BY ANY ARU OR AHU-1, PUMPS SHALL ENGAGE TO PROVIDE CHILLED WATER TO UNIT
B. PUMPS SHALL BE SET UP IN LEAD/LAG CONFIGURATION WITH SELECTABLE LEAD PUMP.
C. LEAD PUMP SHALL SWITCH EVERY 3 MONTHS (ADJUSTABLE) TO EVENLY WEAR PUMPS AND EQUALIZE RUNTIME HOURS.

B-1,2 BOILERS

CONTROL OF THE UNIT SHALL BE FROM THE BMS.

B-1,2 BOILERS

CONTROL OF THE UNIT SHALL BE FROM THE BMS.

BOILER SYSTEM RUN CONDITIONS:

THE BOILER SYSTEM SHALL BE ENABLED TO RUN WHENEVER:
- A DEFINABLE NUMBER OF HOT WATER COILS NEED HEATING.
- AND OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).

TO PREVENT SHORT CYCLING, THE BOILER SYSTEM SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES (BOTH USER DEFINABLE), UNLESS SHUTDOWN ON SAFETIES OR OUTSIDE AIR CONDITIONS.

THE BOILER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

THE BOILER SYSTEM SHALL ALSO RUN FOR FREEZE PROTECTION WHENEVER THE OUTSIDE AIR TEMPERATURE IS LESS THAN 38°F (ADJ.).

BOILER 1 SAFETIES:

THE FOLLOWING SAFETIES SHALL BE MONITORED:
- BOILER ALARM.
- LOW WATER LEVEL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- BOILER ALARM.
- LOW WATER LEVEL ALARM.

BOILER 2 SAFETIES:

THE FOLLOWING SAFETIES SHALL BE MONITORED:
- BOILER ALARM.
- LOW WATER LEVEL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- BOILER ALARM.
- LOW WATER LEVEL ALARM.

HOT WATER PUMP:
THE HOT WATER PUMP SHALL RUN ANYTIME THE BOILER IS CALLED TO RUN AND SHALL HAVE A USER DEFINABLE DELAY (ADJ.) ON STOP.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HOT WATER PUMP FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- HOT WATER PUMP RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- HOT WATER PUMP RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

CIRCULATION PUMP 1:
THE CIRCULATION PUMP 1 SHALL RUN ANYTIME BOILER 1 IS CALLED TO RUN AND SHALL HAVE A USER DEFINABLE DELAY (ADJ.) ON STOP.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- CIRCULATION PUMP 1 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- CIRCULATION PUMP 1 RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- CIRCULATION PUMP 1 RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER-DEFINABLE LIMIT.

CIRCULATION PUMP 2:
THE CIRCULATION PUMP 2 SHALL RUN ANYTIME BOILER 2 IS CALLED TO RUN AND SHALL HAVE A USER DEFINABLE DELAY (ADJ.) ON STOP.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- CIRCULATION PUMP 2 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- CIRCULATION PUMP 2 RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- CIRCULATION PUMP 2 RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER-DEFINABLE LIMIT.

BOILER LEAD/LAG OPERATION:
THE TWO BOILERS SHALL OPERATE IN A LEAD/LAG FASHION.
- THE LEAD BOILER SHALL RUN FIRST.
- ON FAILURE OF THE LEAD BOILER, THE LAG BOILER SHALL RUN AND THE LEAD BOILER SHALL TURN OFF.
- AS HOT WATER TEMPERATURE DROPS BELOW A SETPOINT OF 150 F (ADJ.), THE LAG BOILER SHALL STAGE ON AND RUN IN UNISON WITH THE LEAD BOILER TO MAINTAIN HOT WATER TEMPERATURE SETPOINT.
- AS HOT WATER TEMPERATURE RISES BACK TO 20°F ABOVE SETPOINT, THE LAG BOILER SHALL STAGE OFF.

THE DESIGNATED LEAD BOILER SHALL ROTATE UPON ONE OF THE FOLLOWING CONDITIONS: (USER SELECTABLE):
- MANUALLY THROUGH A SOFTWARE SWITCH
- IF BOILER RUNTIME (ADJ.) IS EXCEEDED
- DAILY
- WEEKLY
- MONTHLY

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- BOILER 1
  - FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
  - RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
  - RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
- BOILER 2
  - FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
  - RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
  - RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
  - LEAD BOILER FAILURE: THE LEAD BOILER IS IN FAILURE AND THE STANDBY BOILER IS ON.

HOT WATER SUPPLY TEMPERATURE SETPOINT RESET:
THE HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET BASED ON OUTSIDE AIR TEMPERATURE.
AS OUTSIDE AIR TEMPERATURE RISES FROM 0°F (ADJ.) TO 70°F (ADJ.) THE HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL RESETDOWNWARDS BY SUBTRACTING FROM 0°F (ADJ.) TO 20°F (ADJ.) FROM THE CURRENT BOILER SETPOINT.

PRIMARY HOT WATER TEMPERATURE MONITORING:

THE FOLLOWING TEMPERATURES SHALL BE MONITORED:
- PRIMARY HOT WATER SUPPLY.
- PRIMARY HOT WATER RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH PRIMARY HOT WATER SUPPLY TEMP: IF GREATER THAN 200°F (ADJ.).
- LOW PRIMARY HOT WATER SUPPLY TEMP: IF LESS THAN 100°F (ADJ.).

BOILER 1 HOT WATER TEMPERATURE MONITORING:

THE FOLLOWING TEMPERATURES SHALL BE MONITORED:
- BOILER 1 HOT WATER SUPPLY.
- BOILER 1 HOT WATER RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH HOT WATER SUPPLY TEMP: IF GREATER THAN 200°F (ADJ.).
- LOW HOT WATER SUPPLY TEMP: IF LESS THAN 100°F (ADJ.).

BOILER 2 HOT WATER TEMPERATURE MONITORING:

THE FOLLOWING TEMPERATURES SHALL BE MONITORED:
- BOILER 2 HOT WATER SUPPLY.
- BOILER 2 HOT WATER RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH HOT WATER SUPPLY TEMP: IF GREATER THAN 200°F (ADJ.).
- LOW HOT WATER SUPPLY TEMP: IF LESS THAN 100°F (ADJ.).

ARUs

POINTS LIST FOR CONTROLS

	HARDWARE POINTS				SOFTWARE POINTS						
POINT NAME	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**LOOP**	**SCHED**	**TREND**	**ALARM**	**SHOW ON GRAPHIC**
Mixed Air Temp	X										X
Unit Leaving Air Temp	X								X		X
space temp		X						X	X		X
Cooling coil LWT	X								X		X
Heating coil LWT	X								X		X
Supply fan VFD		X							X		X

AHU

POINTS LIST FOR CONTROLS

	HARDWARE POINTS				SOFTWARE POINTS						
POINT NAME	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**LOOP**	**SCHED**	**TREND**	**ALARM**	**SHOW ON GRAPHIC**
Return Air Temp	X										X
Return air Humidity	X										X
Mixed air Temperature	X										X
Supply Air Temp	X								X		X
space temp		X						X	X		X
Cooling coil LWT	X								X		X
Supply fan VFD		X							X		X
Filter ΔP	X										X
Filter Status (Clean/Replace)			X								X

VAV's

POINTS LIST FOR CONTROLS

	HARDWARE POINTS				SOFTWARE POINTS						
POINT NAME	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**LOOP**	**SCHED**	**TREND**	**ALARM**	**SHOW ON GRAPHIC**
Supply Air Temp	X								X		X
space temp		X						X	X		X
Airflow	X								X		X
Electric heat stage 1 Status			X								X
Electric heat stage 2 Status			X								X

BOILERS

POINTS LIST FOR CONTROLS

	HARDWARE POINTS				SOFTWARE POINTS						
POINT NAME	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**LOOP**	**SCHED**	**TREND**	**ALARM**	**SHOW ON GRAPHIC**
Boiler 1 Hot Water Return Temp	X								X		X
Boiler 1 Hot Water Supply Temp	X								X		X
Boiler 2 Hot Water Return Temp	X								X		X
Boiler 2 Hot Water Supply Temp	X								X		X
Primary Hot Water Return Temp	X								X		X
Primary Hot Water Supply Temp	X								X		X
Boiler 1 Hot Water Supply Temp Setpoint Reset		X							X		X
Boiler 2 Hot Water Supply Temp Setpoint Reset		X							X		X
Boiler 1 Alarm Status			X						X		X
Boiler 1 Low Water Level			X						X		X
Boiler 1 Status			X						X		X
Boiler 2 Alarm Status			X						X		X
Boiler 2 Low Water Level			X						X		X
Boiler 2 Status			X						X		X
Circulation Pump 1 Status			X						X		X
Circulation Pump 2 Status			X						X		X
Hot Water Pump Status			X						X		X
Boiler 1 Enable				X							X
Boiler 2 Enable				X							X
Circulation Pump 1 Start/Stop				X					X		X
Circulation Pump 2 Start/Stop				X					X		X
Hot Water Pump Start/Stop				X					X		X
Outside Air Temp					X						X
Boiler 1 Failure										X	
Boiler 1 High Hot Water Supply Temp										X	
Boiler 1 Low Hot Water Supply Temp										X	
Boiler 1 Running in Hand										X	
Boiler 1 Runtime Exceeded										X	
Boiler 2 Failure										X	
Boiler 2 High Hot Water Supply Temp										X	
Boiler 2 Low Hot Water Supply Temp										X	
Boiler 2 Running in Hand										X	
Boiler 2 Runtime Exceeded										X	
Circulation Pump 1 Failure										X	
Circulation Pump 1 Running in Hand										X	

(BAR GRAPHIC IS 4" AT FULL SCALE)

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PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

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State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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DRAWING NAME
MECHANICAL POINTS LIST

DRAWING NO.
M400

Drawn By: ASE Checked By: CJC

WIRING DEVICE SYMBOL LEGEND

SYMBOL	DESCRIPTION
A-1	HOMERUN TO LIGHTING/SERVICE PANEL. HOMERUN INDICATES PANEL NAME AND CIRCUIT NUMBER OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT (1" UNDERGROUND) UNLESS NOTED OTHERWISE. HOMERUNS MAY BE COMBINED INTO A COMMON RACEWAY FOR 20A SINGLE PHASE CIRCUITS, PROVIDE DEDICATED NEUTRALS. MAXIMUM OF (6) CURRENT CARRYING CONDUCTORS SHALL BE PROVIDED IN RACEWAY, UNLESS NOTED OTHERWISE. PROVIDE #10 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 100 FEET. PROVIDE #8 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 150 FEET. INCREASE CONDUIT SIZE AS REQUIRED. VERIFY EXACT CIRCUIT LENGTH AND SIZE OF CONDUCTORS TO PROVIDE ACCEPTABLE VOLTAGE DROP PER NEC. COMPLY WITH NEC FOR CONDUCTOR DERATING AND CONDUIT FILL.
	DUPLEX RECEPTACLE AT 18" AFF, UNO. NEMA 5-20R. FOR RECEPTACLES ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: AC - MOUNTED 8" ABOVE COUNTER CR - CORD REEL GFI - GROUND FAULT CIRCUIT INTERRUPTER DEVICE IG - ISOLATED GROUND TR - TAMPER RESISTANT USB - DEVICE WITH TYPE 'A' & TYPE 'C' USB PORTS WP - UL LISTED WEATHER-RESISTANT (WR) DEVICE WITH WEATHERPROOF WHILE-IN-USE COVER (xx") - MOUNTING HEIGHT OF RECEPTACLE AFF
J	JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	PUSHBUTTON
	MOTOR. SEE DRAWINGS FOR DESCRIPTION
J 30A/3P/20/1	SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING, "3P" INDICATES NUMBER OF POLES, "20" INDICATES FUSE SIZE, "1" INDICATES NEMA ENCLOSURE RATING (1, 3R, 4X, ETC). HEAVY DUTY SAFETY SWITCH UNLESS NOTED OTHERWISE. "NF" INDICATES NON-FUSED.
J	COMBINATION MOTOR STARTER
	MOTOR STARTER M = MANUAL MOTOR STARTER

LIGHTING & CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION
S_x	20A SWITCH AT 44" CL AFF, UNO FOR SWITCH OR DIMMER ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: a,b - SWITCHING SCHEME m - MOTOR RATED WITH LOCKOUT BRACKET P - PILOT LIGHT 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH o - OCCUPANCY SENSOR v - VACANCY SENSOR
	INTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	LIGHT FIXTURE, HALF SHADE INDICATES INTEGRAL EMERGENCY BATTERY.

DISTRIBUTION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	ELECTRICAL PANEL, SURFACE MOUNTED.
	ELECTRICAL PANEL, FLUSH MOUNTED.
T1	TRANSFORMER

FIRE ALARM SYMBOL LEGEND

UNLESS NOTED OTHERWISE ON DRAWINGS, FOR EACH DEVICE BELOW, PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG MUDRING AND 3/4" CONDUIT WITH PULL CORD TO ABOVE NEAREST ACCESSIBLE CEILING IN CORRIDOR. PROVIDE NYLON BUSHING ON CONDUIT END.

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL UNIT; "D" SUBSCRIPT INDICATES DEDICATED UNIT
S	DUCT SMOKE DETECTOR
RTS	REMOTE ALARM INDICATING AND TEST SWITCH. MOUNT IN ACCESSIBLE CEILING BELOW DETECTOR LOCATION. IN OPEN LOCATIONS, MOUNT ON NEAREST WALL OR COLUMN TO DETECTOR AT 48" AFF OR AT HEIGHT REQUIRED BY OWNER.
RL	NON-ADDRESSABLE OUTPUT RELAY

LIGHTING CIRCUITING GUIDE

SYMBOL	DESCRIPTION
B / X-1 (a)	LIGHTING TYPE AND CIRCUIT DESIGNATION X: PANEL 1: CIRCUIT NUMBER B: LIGHT FIXTURE TYPE, REFER TO LIGHT FIXTURE SCHEDULE SWITCHING SCHEME OR ZONE

POWER CIRCUITING GUIDE

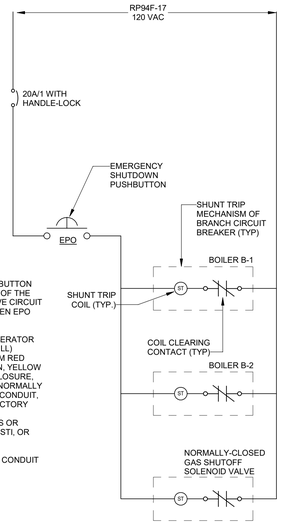
SYMBOL	DESCRIPTION
X-1 XXXT	POWER CIRCUITING DESIGNATION X: PANEL 1: CIRCUIT NUMBER DEVICE, JUNCTION BOX, FLOOR BOX, ETC EQUIPMENT ABBREVIATION, REFER TO LEGEND AND ABBREVIATION SCHEDULE FOR ADDITIONAL INFORMATION

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ACH	ABOVE COUNTER HEIGHT
AL	ALUMINUM
BKR	BREAKER
CKT	CIRCUIT
CL	CENTERLINE
CU	COPPER
DWG	DRAWING
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
FLA	FULL LOAD AMPS
FU	FUSE
FWE	FURNISHED WITH EQUIPMENT
GC	GENERAL CONTRACTOR
GFI/GFCI	GROUND FAULT INTERRUPTER DEVICE
IG	ISOLATED GROUND
LRA	LOCKED ROTOR AMPS
LTG, L	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT CIRCUIT PROTECTION
MSB	MAIN SWITCHBOARD
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PH	PHASE
PNL	PANEL
RCPT	RECEPTACLE
REQD	REQUIRED
RTU	ROOFTOP UNIT
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
UGND	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SHEET LIST

SHEET NUMBER	SHEET NAME
E000	ELECTRICAL LEGENDS & DETAILS
E001	ELECTRICAL SCHEDULES AND FIRE ALARM DETAILS
E100	ELECTRICAL OVERALL DEMOLITION PLAN
E101	ELECTRICAL SOUTH OFFICE DEMOLITION PLAN
E102	ELECTRICAL 86/87 AREA DEMOLITION PLAN
E103	ELECTRICAL 89 AREA DEMOLITION PLAN
E104	ELECTRICAL 92 AREA DEMOLITION PLAN
E105	ELECTRICAL 94 AREA DEMOLITION PLAN
E106	ELECTRICAL ROOF DEMOLITION PLAN
E200	ELECTRICAL OVERALL NEW WORK PLAN
E201	ELECTRICAL SOUTH OFFICE NEW WORK PLAN
E202	ELECTRICAL 86/87 AREA NEW WORK PLAN
E203	ELECTRICAL 89 AREA NEW WORK PLAN
E204	ELECTRICAL 92 AREA NEW WORK PLAN
E205	ELECTRICAL 94 AREA NEW WORK PLAN
E206	ELECTRICAL ROOF NEW WORK PLAN
E300	ELECTRICAL ENLARGED NEW BOILER AREA PLANS
E301	ELECTRICAL ENLARGED EXISTING BOILER AREA PLANS
E400	ELECTRICAL SINGLE LINE - BLUE SERVICE
E401	ELECTRICAL SINGLE LINE - BLUE SERVICE CONT'D
E402	ELECTRICAL SINGLE LINE - EXISTING RED SERVICE
E403	ELECTRICAL SINGLE LINE - PROPOSED RED SERVICE
E410	ELECTRICAL PANEL SCHEDULES - OFFICE
E411	ELECTRICAL PANEL SCHEDULES - OFFICE CONT'D
E412	ELECTRICAL PANEL SCHEDULES - AREAS 87 & 92
E413	ELECTRICAL PANEL SCHEDULES - AREA 94



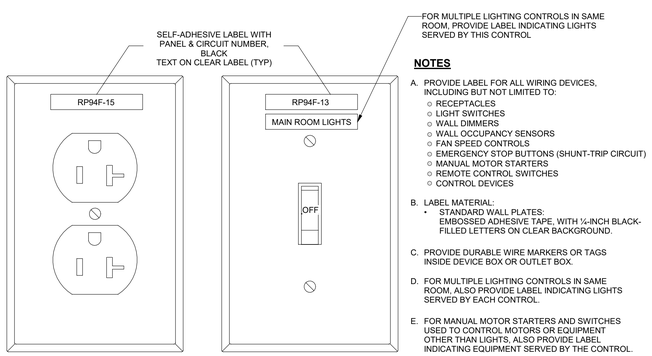
DETAIL NOTES:

A. WIRE EMERGENCY SHUTDOWN BUTTON (EPO) TO ACTIVATE SHUNT TRIP OF THE BOILER AND GAS SHUTOFF VALVE CIRCUIT BREAKERS IN PANEL 'RP94F' WHEN EPO BUTTON IS PUSHED.

B. EPO SHALL BE PUSHBUTTON OPERATOR STATION, MAINTAINED (PUSH-PULL) LABELED "PULL-TO-RESET" 40 MM RED MUSHROOM-HEAD PUSHBUTTON, YELLOW SURFACE MOUNT NEMA 4X ENCLOSURE 120VAC, 20A CONTACT RATING, NORMALLY OPEN CONTACTS, HUB FOR 3/4" CONDUIT, CLEAR HINGED COVER, WITH FACTORY LEGEND "EMERGENCY - BOILER SHUTDOWN", KELE ST120 SERIES OR EQUAL BY SIEMENS, ABB, PILLA, STI, OR SQUARE D.

C. ALL WIRING SHALL BE #12 IN 3/4" CONDUIT MINIMUM.

1 E000 BOILER EMERGENCY SHUTDOWN WIRING DIAGRAM
NOT TO SCALE



TYPICAL RECEPTACLE FACEPLATE

TYPICAL LIGHTING CONTROL (SWITCH, DIMMER, OCCUPANCY SENSOR) FACEPLATE

NOTES

A. PROVIDE LABEL FOR ALL WIRING DEVICES, INCLUDING BUT NOT LIMITED TO:
- RECEPTACLES
- LIGHT SWITCHES
- WALL DIMMERS
- WALL OCCUPANCY SENSORS
- FAN SPEED CONTROLS
- EMERGENCY STOP BUTTONS (SHUNT-TRIP CIRCUIT)
- MANUAL MOTOR STARTERS
- REMOTE CONTROL SWITCHES
- CONTROL DEVICES

B. LABEL MATERIAL:
- STANDARD WALL PLATES: EMBOSSED ADHESIVE TAPE, WITH ½-INCH BLACK-FILLED LETTERS ON CLEAR BACKGROUND.

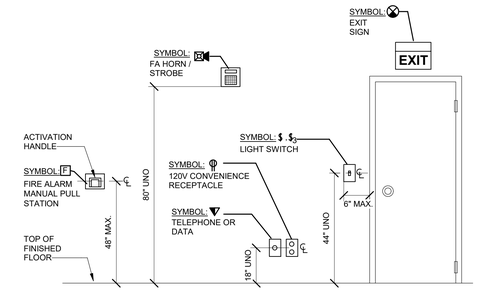
C. PROVIDE DURABLE WIRE MARKERS OR TAGS INSIDE DEVICE BOX OR OUTLET BOX.

D. FOR MULTIPLE LIGHTING CONTROLS IN SAME ROOM, ALSO PROVIDE LABEL INDICATING LIGHTS SERVED BY EACH CONTROL.

E. FOR MANUAL MOTOR STARTERS AND SWITCHES USED TO CONTROL MOTORS OR EQUIPMENT OTHER THAN LIGHTS, ALSO PROVIDE LABEL INDICATING EQUIPMENT SERVED BY THE CONTROL.

F. WHEN LABELING OUTDOOR DEVICES, LABEL SHALL BE INSTALLED ON THE FACEPLATE INSIDE THE WEATHERPROOF DEVICE COVER, NOT ON THE OUTSIDE OF THE COVER.

3 E000 WIRING DEVICE LABELING DETAIL
NOT TO SCALE



2 E000 TYPICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE

TYPICAL NAMEPLATE EXAMPLES FOR EACH EQUIPMENT TYPE

Panelboard

AC4

480Y/277V 3Ø 4W
Fed From PDP87

Mech Equipment Disconnects & VFD's

VAV-1-1

480V 3Ø
AC4-____

Transformers

TX94F

480V: 208Y/120V
FED FROM PANEL 'PDP94D'
FEEDS PANEL 'RP94F'

EQUIPMENT LABELING NOTES:

A. PROVIDE ENGRAVED LAMINATED NAMEPLATE FOR EACH PIECE OF ELECTRICAL EQUIPMENT. LABEL TAPE IS NOT ACCEPTABLE.

B. COORDINATE SUPPLY SOURCE (PANEL/CIRCUIT WHERE FED FROM) WITH ACTUAL CIRCUITS USED.

C. ON EACH UNIT OF EQUIPMENT, INSTALL UNIQUE DESIGNATION LABEL THAT IS CONSISTENT WITH WIRING DIAGRAMS AND SCHEDULES.

D. PROVIDE LABEL AS SHOWN FOR EACH EQUIPMENT TYPE. INFORMATION SHALL INCLUDE NAME OF EQUIPMENT, VOLTAGE/PHASE, SUPPLY SOURCE, AND SYSTEM BRANCH.

E. COORDINATE EXACT NAME/DESIGNATION OF MECHANICAL/PLUMBING EQUIPMENT WITH MECHANICAL/PLUMBING CONTRACTOR AND OWNER PRIOR TO CONSTRUCTING NAMEPLATES.

F. LABEL EQUIPMENT WITH SELF-ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. UNLESS OTHERWISE INDICATED, EQUIPMENT NAME SHALL BE 1-INCH-HIGH LETTERS, AND ADDITIONAL TEXT SHALL BE 1/2-INCH-HIGH LETTERS. LABEL SIZE SHALL ACCOMMODATE TEXT REQUIRED FOR EACH PARTICULAR PIECE OF EQUIPMENT.

G. FOR MECHANICAL EQUIPMENT SUCH AS AIR HANDLERS, CHILLERS, ETC. THAT MAY BE FURNISHED WITH AN INTEGRAL DISCONNECT, PROVIDE LABEL ON UNIT AT THE INTEGRAL DISCONNECT LOCATION OR INPUT POWER CONNECTION LOCATION.

H. LABEL THE FOLLOWING ITEMS:
- PANELBOARDS
- ENCLOSURES AND ELECTRICAL CABINETS
- DISCONNECT SWITCHES
- ACCESS DOORS AND PANELS FOR CONCEALED ELECTRICAL ITEMS, LABEL WITH ITEMS CONCEALED
- VARIABLE SPEED CONTROLLERS

4 E000 EQUIPMENT IDENTIFICATION NAMEPLATE DETAIL
NOT TO SCALE

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED — NO. 22785 — PROFESSIONAL ENGINEER — 1/19/2026

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

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DRAWING NAME
ELECTRICAL LEGENDS & DETAILS

DRAWING NO.
E000

Drawn By: DK Checked By: SLE

(BAR GRAPHIC IS 4" AT FULL SCALE)

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL #	VOLTS	LAMP* OR DRIVER**				MOUNTING	REMARKS
					QTY*	WATTS	LUMENS**	TYPE		
S4	4' LED STRIP FIXTURE, BAKED WHITE STEEL HOUSING, DIFFUSE SNAP-ON LENS WITH UPLIGHT, WIREGUARD	LITHONIA OR EQUAL BY: HE WILLIAMS METALUX COLUMBIA OR APPROVED EQUAL	ZL1D-L48-5000LM-FST-MVOLT-35K-80CRI-WH-WGZ48 76R-4-L52/835-WG-76R14-UNV 4SNX-51SL-LW-UNV-L835-1-WG-SNX CSL4-A-LSCS	MVOLT	-	41	5000	3500K LED	CHAIN-HUNG AT 14'-0" AFF	1
S8	SAME AS TYPE 'S4' EXCEPT 8' LED STRIP	LITHONIA OR EQUAL BY: HE WILLIAMS METALUX COLUMBIA OR APPROVED EQUAL	ZL1D-L96-10000LM-FST-MVOLT-35K-80CRI-WH-WGZ48 76R-8-L104/835-WG-76R14-UNV 8SNX-102SL-LW-UNV-L835-1-WG-SNX CSL8-A-LSCS	MVOLT	-	81	10000	3500K LED	CHAIN-HUNG AT 14'-0" AFF	1
S8E	SAME AS TYPE 'S8' EXCEPT WITH 10W EMERGENCY BATTERY, UL94 LISTED	LITHONIA OR EQUAL BY: HE WILLIAMS METALUX COLUMBIA OR APPROVED EQUAL	ZL1D-L96-10000LM-FST-MVOLT-35K-80CRI-E10W-WH-WGZ48 76R-8-L104/835-EM'10W-WG-76R14-UNV 8SNX-102SL-LW-UNV-L835-1-EM10W-WG-SNX CSL8-A-LSCS-ELL14ST	MVOLT	-	81	10000	3500K LED	CHAIN-HUNG AT 14'-0" AFF	1

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

A. PROVIDE WITH PROPER MOUNTING HARDWARE FOR CEILING TYPE INDICATED ON PLANS.

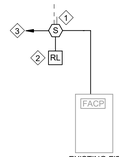
B. ALL LED FIXTURES SHALL HAVE INTEGRAL SERVICEABLE SURGE PROTECTION DEVICE.

REMARKS:

1. PROVIDE HANGER-CHAIN LENGTH REQUIRED FOR FIXTURES THAT ARE CHAIN-HUNG.

FIRE ALARM SYSTEM MATRIX

ACTION	BUILDING SYSTEM OUTPUTS																		CENTRAL COMM				
	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	ACTUATE EXTERNAL HORN / STROBE	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	RETURN ELEVATOR TO 2ND FLOOR	RETURN ELEVATOR TO 1ST FLOOR	SHUNT TRIP AFTER ELEVATOR REACHES APPROPRIATE FLOOR	SHUT DOWN RESPECTIVE AIR HANDLER	RELEASE MAGNETIC DOOR HOLDERS	SHOW CHANGE OF STATUS ON HAND HELD DEVICE	SHOW CHANGE OF STATUS ON CENTRAL PANEL	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
AHU DUCT SMOKE DETECTOR		X		X				X			X	X					X	X	X				
OPEN CIRCUIT					X	X	X	X				X						X	X			X	
GROUND FAULT						X	X	X				X						X	X				X



EXISTING FIRE ALARM CONTROL PANEL (SIMPLEX 4010)

FIRE ALARM RISER DIAGRAM NOTES:

1. DUCT SMOKE DETECTOR. PROVIDE REMOTE TEST STATION FOR EACH.
2. HVAC SHUT DOWN RELAY
3. COMMUNICATIONS WIRING LOOP. MATCH EXISTING PATHWAY CLASS.

FIRE ALARM SYSTEM NOTES:

A. THIS RISER REPRESENTS A TYPICAL SYSTEM AND IS NOT INTENDED FOR INSTALLATION. SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS. EXACT SYSTEM REQUIREMENTS SHALL BE COORDINATED WITH THE SYSTEM SUPPLIER.

B. THIS DIAGRAM IS NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES, AND NOT ALL DEVICE TYPES SHOWN IN THIS DIAGRAM MAY BE USED ON THIS PARTICULAR PROJECT. REFER TO PLAN FOR EXACT DEVICE QUANTITY AND TYPES.

SEQUENCE OF OPERATION:

A. EXISTING SEQUENCE OF OPERATIONS TO REMAIN.

SYSTEM DEVICES:

A. DUCT-MOUNTED SMOKE DETECTORS ARE FURNISHED, WIRED, AND PROGRAMMED BY ELECTRICAL/FIRE ALARM CONTRACTOR AND INSTALLED IN DUCTWORK BY MECHANICAL CONTRACTOR. PROVIDE CONNECTION TO DUCT-MOUNTED SMOKE DETECTORS AFTER DEVICES ARE SECURED IN FINAL LOCATION.

1 / E001 FIRE ALARM RISER DIAGRAM
NOT TO SCALE

EQUIPMENT WIRING SCHEDULE

TAG	VOLTAGE	PHASE	LOAD			CONDUCTORS & CONDUIT	DISCONNECT/STARTER	CIRCUIT		LOCATION IN DRAWINGS	REMARKS
			kW	HP	FLA			PANEL	NO.		
AREA 86											
AIR COMPRESSOR	480	3		30	40	SEE SINGLE LINE ON SHEET E403	SEE SINGLE LINE ON SHEET E403	PDP13	2,4,6	E201	3
AIR DRYER	480	3		1/2	3.6	SEE SINGLE LINE ON SHEET E403	SEE SINGLE LINE ON SHEET E403	PDP13	8,10,12	E201	3
AREA 87											
ARU-1	480	3		2@7.5	22	3#8, 1#10G; 1"C	FWE	PDP87	7,9,11	E202	
ARU-2	480	3		2@7.5	22	3#8, 1#10G; 1"C	FWE	PDP87	13,15,17	E202	
CP-1	208	1		1/5	1	2#12, 1#12G; 3/4"C	NEMA 6-15R	AC3	40,42	E202	
CP-2	208	1		1/5	1	2#12, 1#12G; 3/4"C	NEMA 6-15R	R2	17,19	E202	
SF-1	480	3		3	4.3	3#12, 1#12G; 3/4"C	FWE	PDP87	19,21,23	E202	
AREA 89											
ARU-3	480	3		2@7.5	22	3#8, 1#10G; 1"C	FWE	PDP87	8,10,12	E203	
SF-2	480	3		2	3.4	3#12, 1#12G; 3/4"C	FWE	PDP87	25,27,29	E203	
AREA 92											
ARU-4	480	3		2@3	9.6	3#12, 1#12G; 3/4"C	FWE	PDP87	14,16,18	E204	
CP-3	208	1		1/18	1.2	2#12, 1#12G; 3/4"C	NEMA 6-15R	EP192	26,28	E204	
EF-1	480	3		1	1.8	3#12, 1#12G; 3/4"C	30A/3P/6AF/NEMA 0	HP92	14,16,18	E204	1
EF-2	480	3		1	1.8	3#12, 1#12G; 3/4"C	30A/3P/6AF/NEMA 0	HP92	14,16,18	E204	1
HWP-3	480	3		0.5	1.1	SEE SINGLE LINE ON SHEET E401	SEE SINGLE LINE ON SHEET E401	PP192	32,34,36	E204	
SF-3	208	1		0.5	4	2#12, 1#12G; 3/4"C	FWE	EP192	22,24	E204	
AREA 94											
ARU-5	480	3		2@7.5	22	3#8, 1#10G; 1"C	FWE	PDP94A	25,27,29	E205	
ARU-6	480	3		2@7.5	22	3#8, 1#10G; 1"C	FWE	PDP94A	2,4,6	E205	
CP-4	208	1		1/5	1	2#12, 1#12G; 3/4"C	NEMA 6-15R	5C	36,38	E205	
CP-5	208	1		1/5	1	2#12, 1#12G; 3/4"C	NEMA 6-15R	5C	40,42	E205	
SF-4	480	3		3	4.7	3#12, 1#12G; 3/4"C	FWE	PDP94A	38,40,42	E205	
BOILER ROOM											
B-1	208	3			4.5	SEE SINGLE LINE ON SHEET E403	SEE SINGLE LINE ON SHEET E403	RP94F	19,21,23	E300	
B-2	208	3			4.5	SEE SINGLE LINE ON SHEET E403	SEE SINGLE LINE ON SHEET E403	RP94F	26,28,30	E300	
BP-1	480	3		5	7.6	SEE SINGLE LINE ON SHEET E403	VFD FURNISHED BY MC	PDP94D	20,22,24	E300	
BP-2	480	3		5	7.6	SEE SINGLE LINE ON SHEET E403	VFD FURNISHED BY MC	PDP94D	26,28,30	E300	
HWP-1	480	3		15	21	SEE SINGLE LINE ON SHEET E403	VFD FURNISHED BY MC	PDP94D	13,15,17	E300	
HWP-2	480	3		15	21	SEE SINGLE LINE ON SHEET E403	VFD FURNISHED BY MC	PDP94D	19,21,23	E300	
BOILER ROOM MEZZANINE											
CHP-4	480	3		20	27	SEE SINGLE LINE ON SHEET E403	SEE SINGLE LINE ON SHEET E403	PDP94D	7,9,11	E300	4,5
PCWP-1	480	3		25	34	SEE SINGLE LINE ON SHEET E403	SEE SINGLE LINE ON SHEET E403	PDP94D	2,4,6	E300	4,5
PCWP-3	480	3		5	7.6	SEE SINGLE LINE ON SHEET E403	SEE SINGLE LINE ON SHEET E403	PDP94D	14,16,18	E300	4,5
PHWP-1	480	3		7.5	11	SEE SINGLE LINE ON SHEET E403	SEE SINGLE LINE ON SHEET E403	PDP94D	8,10,12	E300	4,5
WH	120	1	3		25	2#10, 1#10G; 3/4"C	EXISTING	RP94F	10	E300	4
BOILER SHED											
CHWP-1	480	3		15	21	SEE SINGLE LINE ON SHEET E401	VFD FURNISHED BY MC	PP192	26,28,30	E301	2
CHWP-2	480	3		15	21	SEE SINGLE LINE ON SHEET E401	VFD FURNISHED BY MC	PP192	2,4,6	E301	2
OFFICE											
AHU-1	480	3			11.22	3#12, 1#12G; 3/4"C	VFD FWE	L4	38,40,42	E201	
VAV-1-1	480	3	3		3.61	3#12, 1#12G; 3/4"C	FWE	AC4	1,3,5	E201	
VAV-1-2	480	3	2		2.41	3#12, 1#12G; 3/4"C	FWE	AC4	7,9,11	E201	
VAV-1-3	480	3	7		8.42	3#12, 1#12G; 3/4"C	FWE	AC4	13,15,17	E201	
FPVAV-1-4	480	3	6.5		7.82	4#12, 1#12G; 3/4"C	FWE	AC4	19,21,23	E201	
FPVAV-1-5	480	3	6.5		7.82	4#12, 1#12G; 3/4"C	FWE	AC4	25,27,29	E201	
FPVAV-1-6	480	3	6.5		7.82	4#12, 1#12G; 3/4"C	FWE	AC4	31,33,35	E201	
VAV-1-7	480	3	1.5		1.8	3#12, 1#12G; 3/4"C	FWE	AC4	37,39,41	E201	
VAV-1-8	480	3	1.5		1.8	3#12, 1#12G; 3/4"C	FWE	AC4	2,4,6	E201	
VAV-1-9	480	3	5		6.01	3#12, 1#12G; 3/4"C	FWE	AC4	8,10,12	E201	
VAV-1-10	480	3	2.5		3.0	3#12, 1#12G; 3/4"C	FWE	AC4	14,16,18	E201	
VAV-1-11	480	3	2		2.41	3#12, 1#12G; 3/4"C	FWE	AC4	20,22,24	E201	
VAV-1-12	480	3	2.5		3.0	3#12, 1#12G; 3/4"C	FWE	AC4	26,28,30	E201	
VAV-1-13	480	3	3		3.61	3#12, 1#12G; 3/4"C	FWE	AC4	32,34,36	E201	
VAV-1-14	480	3	2.5		3.0	3#12, 1#12G; 3/4"C	FWE	AC4	38,40,42	E201	

EQUIPMENT WIRING SCHEDULE GENERAL NOTES:

A. COORDINATE EXACT CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT NAMEPLATE PRIOR TO WORK.

B. COORDINATE ALL NAMING WITH MECHANICAL CONTRACTOR.

REMARKS:

1. ALTERNATE #1
2. ALTERNATE #2
3. EXISTING EQUIPMENT TO BE RELOCATED.
4. EXISTING EQUIPMENT TO BE FED FROM NEW SOURCE.
5. EXISTING EQUIPMENT TO RECEIVE NEW STARTER/DISCONNECT.

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA

TYLER CARTER LICENSED ENGINEER NO. 22785 STATE OF SOUTH CAROLINA PROFESSIONAL ENGINEER 1-19-2026

SEALS

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

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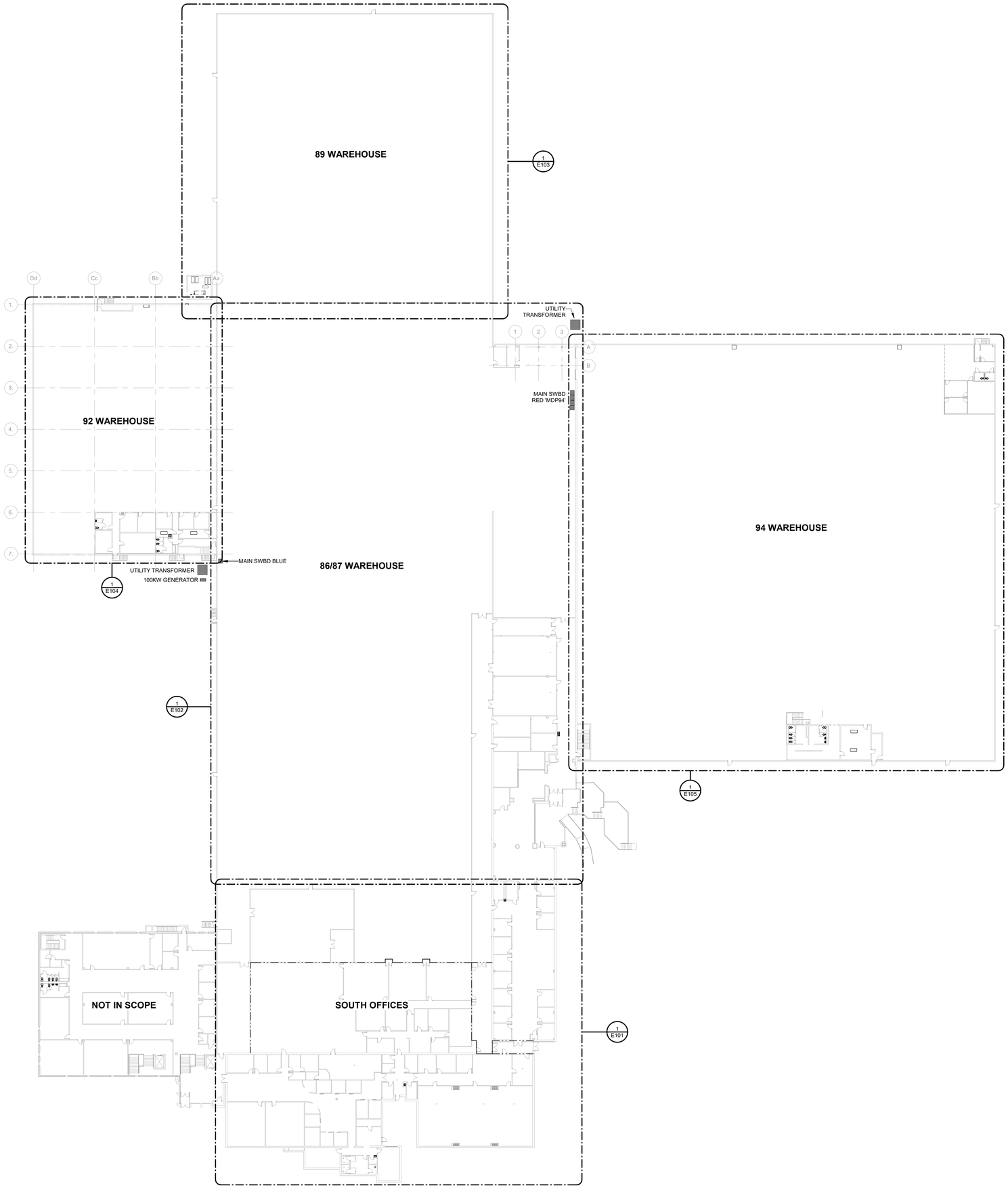
DRAWING NAME
ELECTRICAL SCHEDULES AND FIRE ALARM DETAILS

DRAWING NO.
E001

Drawn By: DK Checked By: SLE

0" 1" 2" 3" (BAR GRAPHIC IS 4" AT FULL SCALE)



1 E100 OVERALL ELECTRICAL DEMOLITION PLAN
1" = 30'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"

SEALS

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

REGISTERED PROFESSIONAL ENGINEER — NO. 22785 — SHANNON L. ELLIOTT — 1-19-2026

CONSULTANT

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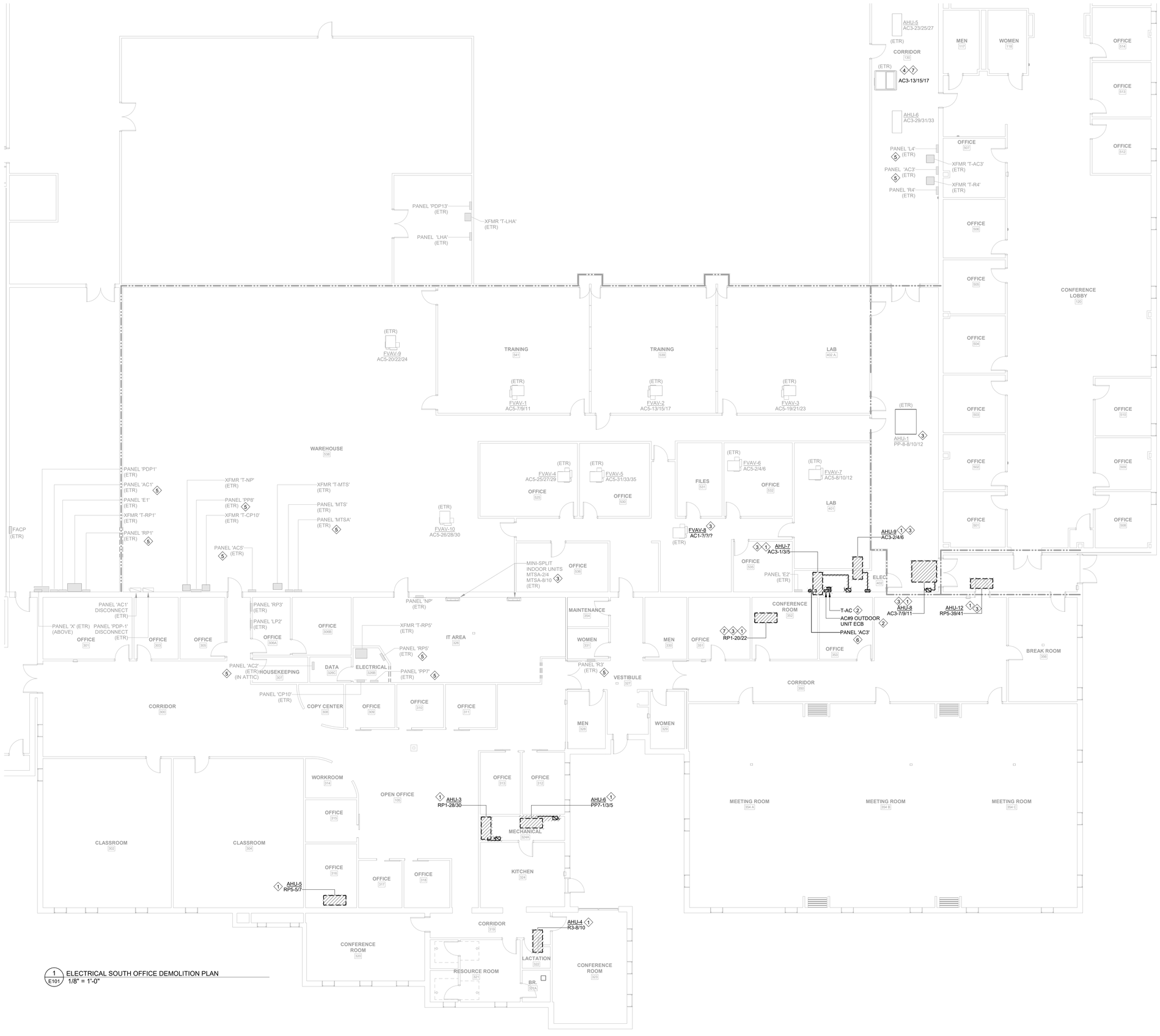
DRAWING NAME
ELECTRICAL OVERALL DEMOLITION PLAN

DRAWING NO.
E100

Drawn By: DK Checked By: SLE



1 E101 ELECTRICAL SOUTH OFFICE DEMOLITION PLAN
1/8" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE) 0" 1" 2" 3" 4"

TRACING & LABELING SCOPE

TLA. EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.

TLB. TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.

TLC. LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

TLD. FOR EXISTING CIRCUITS WITHOUT A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL; FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

TLE. ALL ELECTRICAL EQUIPMENT, BOTH NEW AND EXISTING SHALL RECEIVE NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000.

GENERAL NOTES:

A. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED, AND/OR REROUTED.

B. FOR ALL EXISTING FIXTURES, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.

C. FIELD VERIFY ALL CIRCUITS.

D. FOR ITEMS TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

E. HATCHING ////// DENOTES ITEMS TO BE REMOVED.

F. "ETR" DENOTES EXISTING TO REMAIN.

PLAN NOTES: (#)

1. EXISTING HVAC EQUIPMENT TO BE REMOVED ALONG WITH ALL ASSOCIATED ELECTRICAL EQUIPMENT.
2. EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED.
3. EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FOR BID PURPOSES, ASSUME SOURCE PANEL SHOWN AND VERIFY EXACT CIRCUIT IN FIELD. MARK EXISTING CIRCUIT ON AS-BUILTS.
4. EXISTING TO REMAIN HVAC EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FIELD VERIFY EXACT CIRCUIT. IF CIRCUIT SOURCE IS PANEL AC3 IN ELEC ROOM 402, DISCONNECT FROM PANEL AND RECONNECT TO NEW PANEL SHOWN ON SHEET E201. OTHERWISE, MARK EXISTING CIRCUIT ON AS-BUILTS AND UPDATE PANEL DIRECTORY WITH NEW EQUIPMENT NAME.
5. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED. LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. EXISTING PANELBOARD AND FEEDER TO BE REMOVED. EXISTING CONDUIT TO BE RETAINED FOR RE-USE IN NEW WORK.
7. EXISTING AIR HANDLING UNIT EITHER DOES NOT HAVE A TAG OR A TAG WAS NOT ABLE TO BE OBTAINED FROM EXISTING DRAWINGS AND FIELD OBSERVATIONS.

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — NO. 22785 — SHANNON L. ELLIOTT — 1-19-2026

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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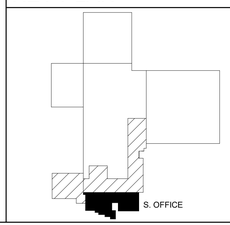
KEY PLAN



DRAWING NAME
ELECTRICAL SOUTH OFFICE DEMOLITION PLAN

DRAWING NO.
E101

Drawn By: DK Checked By: SLE

1 E102 ELECTRICAL 86/87 AREA DEMOLITION PLAN
1/16" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

TRACING & LABELING SCOPE

TLA. EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.

TLB. TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.

TLC. LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

TLD. FOR EXISTING CIRCUITS WITHOUT A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL; FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

TLE. ALL ELECTRICAL EQUIPMENT, BOTH NEW AND EXISTING SHALL RECEIVE NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000.

GENERAL NOTES:

A. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED, AND/OR REROUTED.

B. FOR ALL EXISTING FIXTURES, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.

C. FIELD VERIFY ALL CIRCUITS.

D. FOR ITEMS TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

E. HATCHING ////// DENOTES ITEMS TO BE REMOVED.

F. "ETR" DENOTES EXISTING TO REMAIN.

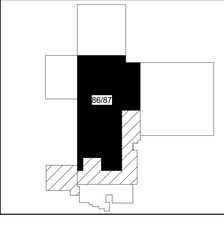
PLAN NOTES: (#)

1. EXISTING HVAC EQUIPMENT TO BE REMOVED ALONG WITH ALL ASSOCIATED ELECTRICAL EQUIPMENT.

2. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

3. EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED OR REPLACED. RETAIN ALL ACTIVE BRANCH CIRCUITS AND PREPARE TO RELOCATE TO NEW SOURCE. SEE PANEL SCHEDULES AND SINGLE-LINE DIAGRAMS.

KEY PLAN



SOUTH CAROLINA DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED NO. 22785 PROFESSIONAL ENGINEER SHANNON L. EADS 1/19/2026

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

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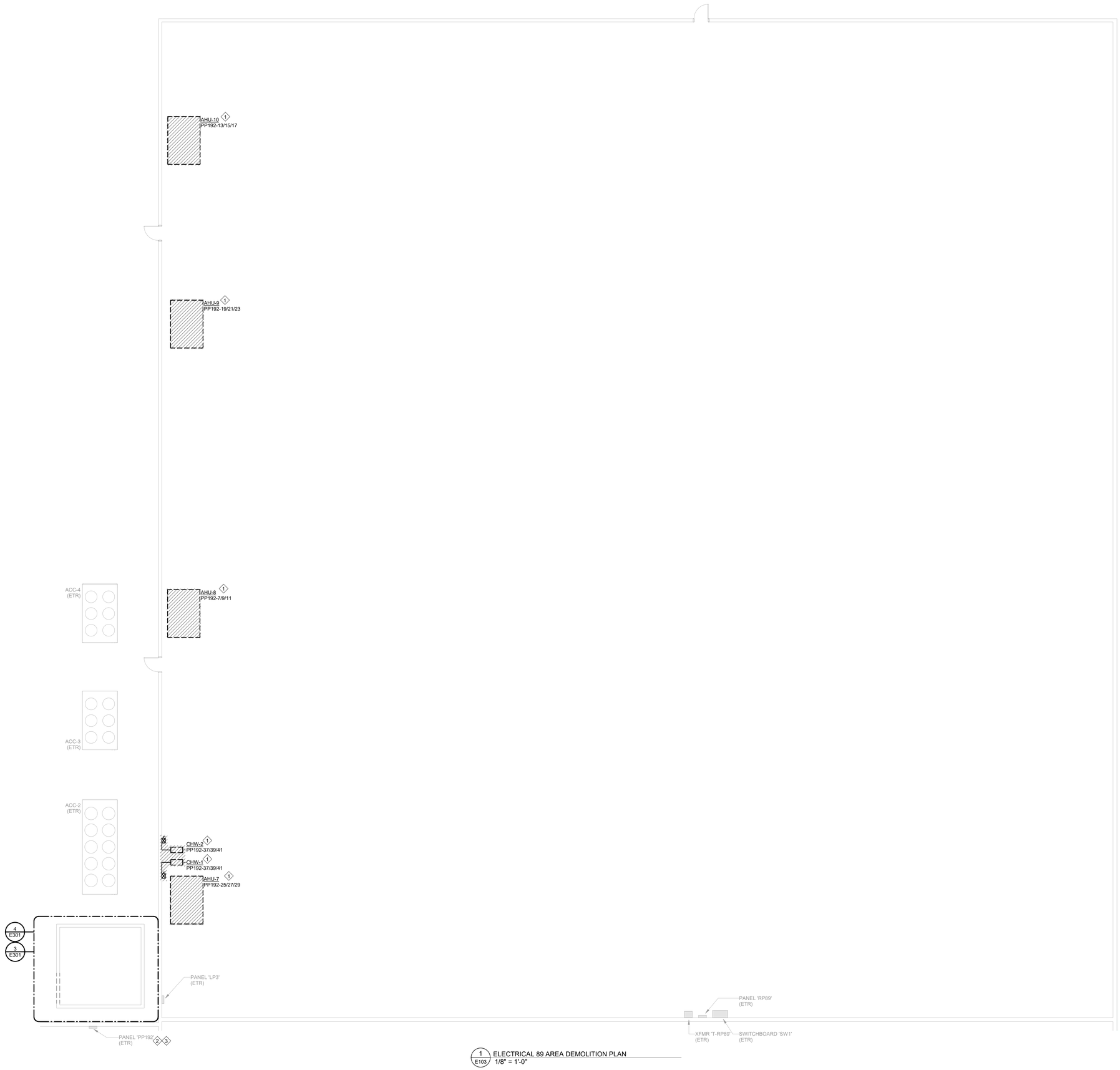
DRAWING NAME
ELECTRICAL 86/87 AREA DEMOLITION PLAN

DRAWING NO.
E102

Drawn By: DK Checked By: SLE



1 E103 ELECTRICAL 89 AREA DEMOLITION PLAN
1/8" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

TRACING & LABELING SCOPE

TLA. EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.

TLB. TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.

TLC. LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

TLD. FOR EXISTING CIRCUITS WITHOUT A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL; FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

TLE. ALL ELECTRICAL EQUIPMENT, BOTH NEW AND EXISTING SHALL RECEIVE NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000.

GENERAL NOTES:

A. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED, AND/OR REROUTED.

B. FOR ALL EXISTING FIXTURES, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.

C. FIELD VERIFY ALL CIRCUITS.

D. FOR ITEMS TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

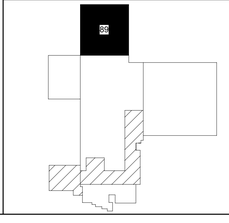
E. HATCHING ////// DENOTES ITEMS TO BE REMOVED.

F. "ETR" DENOTES EXISTING TO REMAIN.

PLAN NOTES: 1

1. EXISTING EQUIPMENT TO BE REMOVED ALONG WITH ALL ASSOCIATED ELECTRICAL EQUIPMENT.
2. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. EXISTING PANEL 'PP1' TO BE RENAMED WITH DESIGNATION SHOWN.

KEY PLAN



DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA

NO. 22785 — REGISTERED PROFESSIONAL ENGINEER — BRANDON L. LOPES — 1/19/2026

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No.	H59-6315-JM
DEVITA Project No.	25531
Issue Date:	12 JANUARY 2026

REVISIONS

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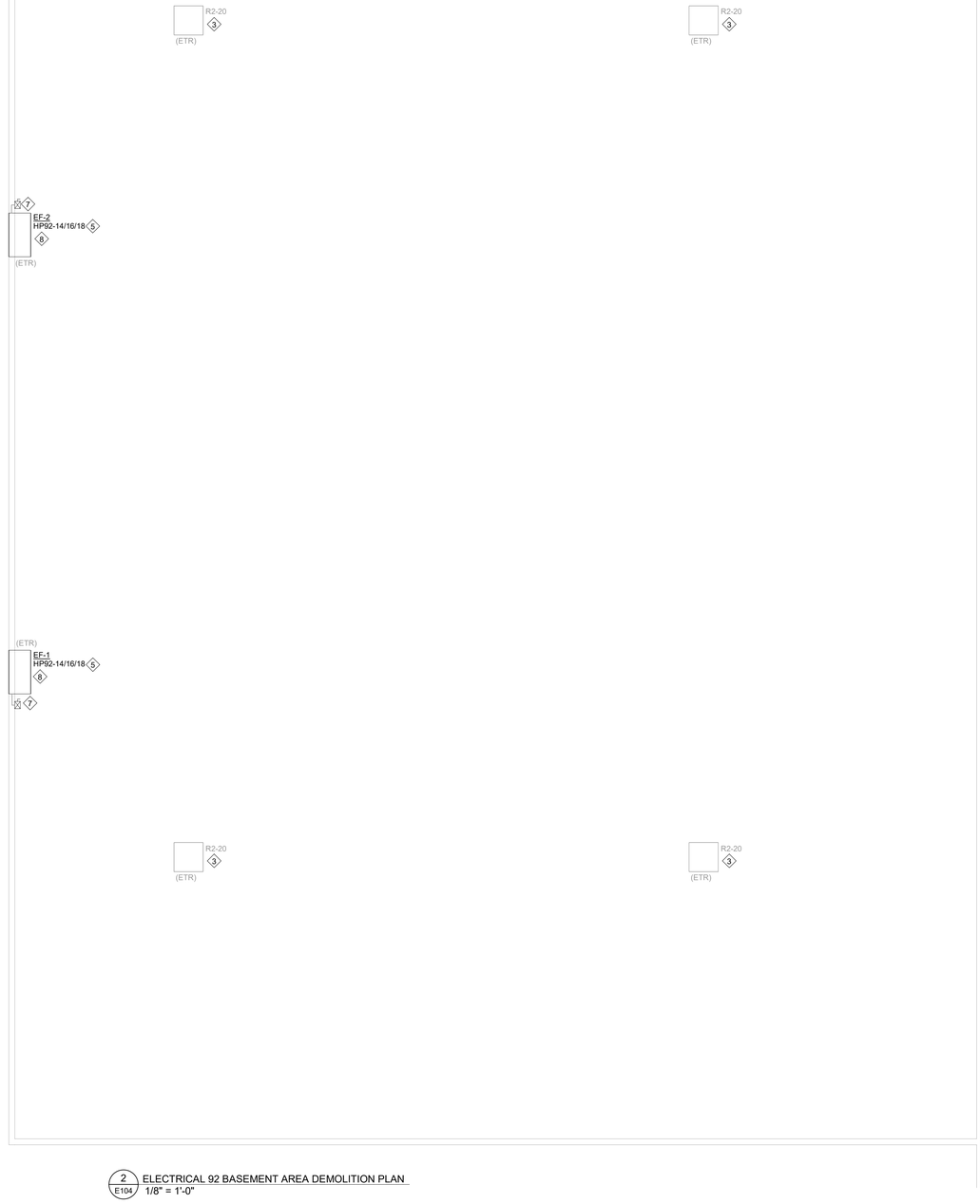
DRAWING NAME
ELECTRICAL 89 AREA DEMOLITION PLAN

DRAWING NO.
E103

Drawn By: DK Checked By: SLE

3 E104 ENLARGED ELECTRICAL 92 AREA DEMOLITION PLAN
1/4" = 1'-0"

1 E104 ELECTRICAL 92 AREA DEMOLITION PLAN
1/8" = 1'-0"



2 E104 ELECTRICAL 92 BASEMENT AREA DEMOLITION PLAN
1/8" = 1'-0"

TRACING & LABELING SCOPE

TLA. EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.

TLB. TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.

TLC. LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

TLD. FOR EXISTING CIRCUITS WITHOUT A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL; FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

TLE. ALL ELECTRICAL EQUIPMENT, BOTH NEW AND EXISTING SHALL RECEIVE NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000.

GENERAL NOTES:

A. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED, AND/OR REROUTED.

B. FOR ALL EXISTING FIXTURES, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.

C. FIELD VERIFY ALL CIRCUITS.

D. FOR ITEMS TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

E. HATCHING ////// DENOTES ITEMS TO BE REMOVED.

F. "ETR" DENOTES EXISTING TO REMAIN.

PLAN NOTES: (#)

1. EXISTING HVAC EQUIPMENT TO BE REMOVED ALONG WITH ALL ASSOCIATED ELECTRICAL EQUIPMENT.
2. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICATION OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. EXISTING HOT WATER UNIT HEATER EITHER DOES NOT HAVE A TAG OR A TAG WAS NOT ABLE TO BE OBTAINED FROM EXISTING DRAWINGS AND FIELD OBSERVATIONS.
4. FIELD VERIFY EQUIPMENT SERVED BY THIS COMBINATION MOTOR STARTER IS TO REMAIN IN SERVICE. IF EQUIPMENT IS NO LONGER OPERABLE OR IS TO BE REMOVED, REMOVE ALL ASSOCIATED CONDUCTORS AND CONDUIT BACK TO STARTER. IF EQUIPMENT IS TO REMAIN OPERATIONAL, PROVIDE NEW IDENTIFICATION NAMEPLATE PER LABELING DETAIL ON SHEET E000. SEE ALSO SHEET E401.
5. EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FOR BID PURPOSES, ASSUME SOURCE PANEL SHOWN AND VERIFY EXACT CIRCUIT IN FIELD. MARK EXISTING CIRCUIT ON AS-BUILTS.
6. VERIFY EXISTING COMBINATION MOTOR STARTER SERVES EQUIPMENT SHOWN. IF EQUIPMENT SERVED IS AS SHOWN, REMOVE WIRING FROM EQUIPMENT TO STARTER AND LABEL STARTER AS 'SPARE'. OTHERWISE, PROVIDE NEW IDENTIFICATION NAMEPLATE PER LABELING DETAIL ON SHEET E000. SEE ALSO SHEET E401.
7. ALTERNATE #1: DISCONNECT AND REMOVE EXISTING STARTER. RETAIN CIRCUITRY AND PREPARE FOR INSTALLATION OF NEW STARTER.
8. ALTERNATE #1: EXHAUST FAN TO BE REPLACED. DISCONNECT AND REMOVE ALL CONNECTIONS FROM FAN TO COMBINATION MOTOR STARTER.
9. ALTERNATE #2: REMOVE EXISTING WIRING FROM LOAD BACK TO STARTER. SEE SHEETS E301 AND E401 FOR ADDITIONAL INFORMATION.
10. EXISTING STARTER SERVES IN-LINE PUMP THAT IS TO BE REPLACED. REMOVE ALL CONDUCTORS AND CONDUIT FROM PUMP TO THIS STARTER.
11. EXISTING PANEL 'PP1' TO BE RENAMED TO DESIGNATION SHOWN.

SOUTH CAROLINA
DEVITA & ASSOCIATES, INC.
No. C00415
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA
REGISTERED
NO. 22785
ENGINEER
SHANNON L. ELLIOTT
1/19/2026

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CONSULTANT

PROJECT INFORMATION:

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SPARTANBURG
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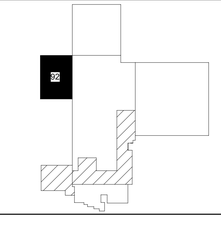
KEY PLAN

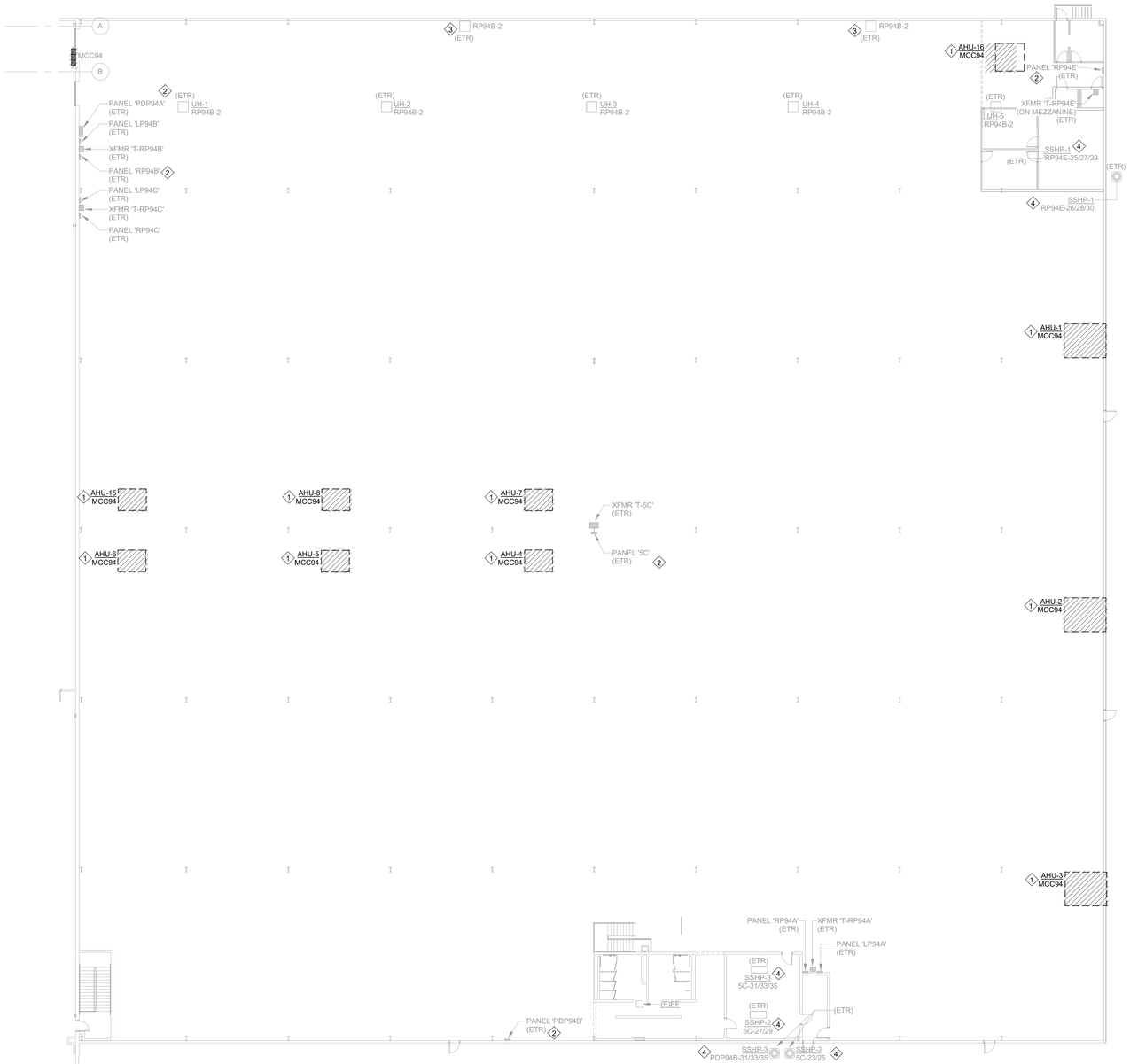


DRAWING NAME
ELECTRICAL 92 AREA DEMOLITION PLAN

DRAWING NO.
E104

Drawn By: DK Checked By: SLE

(BAR GRAPHIC IS 4" AT FULL SCALE)
4"
3"
2"
1"
0"



1 E105 ELECTRICAL 94 AREA DEMOLITION PLAN
1/16" = 1'-0"

TRACING & LABELING SCOPE

TLA. EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.

TLB. TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.

TLC. LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

TLD. FOR EXISTING CIRCUITS WITHOUT A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL; FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

TLE. ALL ELECTRICAL EQUIPMENT, BOTH NEW AND EXISTING SHALL RECEIVE NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000.

GENERAL NOTES:

A. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED, AND/OR REROUTED.

B. FOR ALL EXISTING FIXTURES, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.

C. FIELD VERIFY ALL CIRCUITS.

D. FOR ITEMS TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

E. HATCHING ////// DENOTES ITEMS TO BE REMOVED.

F. "ETR" DENOTES EXISTING TO REMAIN.

PLAN NOTES: (#)

1. EXISTING HVAC EQUIPMENT TO BE REMOVED ALONG WITH ALL ASSOCIATED ELECTRICAL EQUIPMENT.

2. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

3. EXISTING HOT WATER UNIT HEATER EITHER DOES NOT HAVE A TAG OR A TAG WAS NOT ABLE TO BE OBTAINED FROM EXISTING DRAWINGS AND FIELD OBSERVATIONS.

4. EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FOR BID PURPOSES, ASSUME SOURCE PANEL SHOWN AND VERIFY EXACT CIRCUIT IN FIELD. MARK EXISTING CIRCUIT ON AS-BUILTS.

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — NO. 22785 — PROFESSIONAL ENGINEER — 1-19-2026

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
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B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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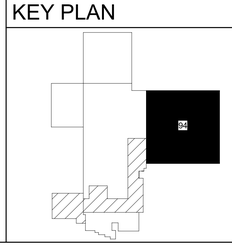
KEY PLAN

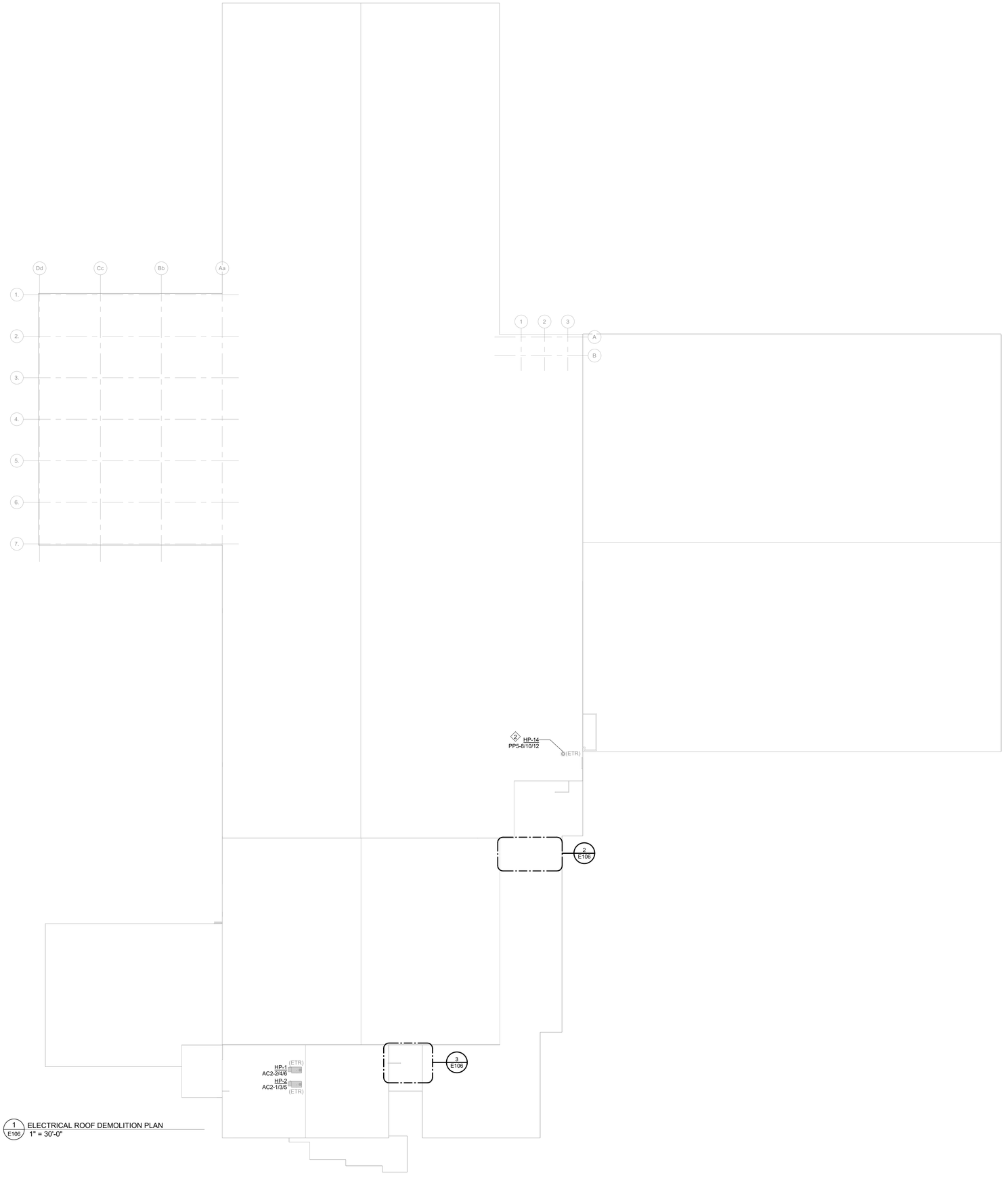


DRAWING NAME
ELECTRICAL 94 AREA DEMOLITION PLAN

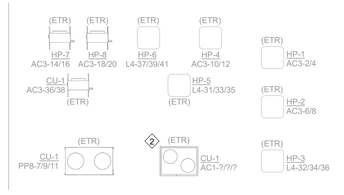
DRAWING NO.
E105

Drawn By: DK Checked By: SLE

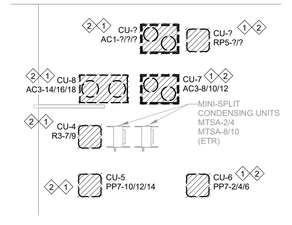
(BAR GRAPHIC IS 4" AT FULL SCALE)



1 E106 ELECTRICAL ROOF DEMOLITION PLAN
1" = 30'-0"



2 E106 ENLARGED ELECTRICAL ROOF DEMOLITION PLAN - NORTH
1/8" = 1'-0"



3 E106 ENLARGED ELECTRICAL ROOF DEMOLITION PLAN - SOUTH
1/8" = 1'-0"

TRACING & LABELING SCOPE

TLA. EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.

TLB. TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.

TLC. LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

TLD. FOR EXISTING CIRCUITS WITHOUT A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL; FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

TLE. ALL ELECTRICAL EQUIPMENT, BOTH NEW AND EXISTING SHALL RECEIVE NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000.

GENERAL NOTES:

A. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED, AND/OR REROUTED.

B. FOR ALL EXISTING FIXTURES, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.

C. FIELD VERIFY ALL CIRCUITS.

D. FOR ITEMS TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

E. HATCHING ////// DENOTES ITEMS TO BE REMOVED.

F. "ETR" DENOTES EXISTING TO REMAIN.

PLAN NOTES: ◇

1. EXISTING HVAC EQUIPMENT TO BE REMOVED ALONG WITH ALL ASSOCIATED ELECTRICAL EQUIPMENT.
2. EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FOR BID PURPOSES, ASSUME SOURCE PANEL SHOWN AND VERIFY EXACT CIRCUIT IN FIELD. MARK EXISTING CIRCUIT ON AS-BUILTS.

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

STATE OF SOUTH CAROLINA — NO. 22785 — REGISTERED PROFESSIONAL ENGINEER — SHANNON L. LEPPARD — 1-19-2026

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CONSULTANT

PROJECT INFORMATION:

SCC
SPARTANBURG
Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

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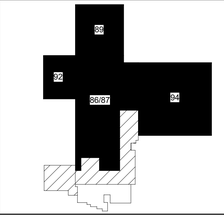
KEY PLAN

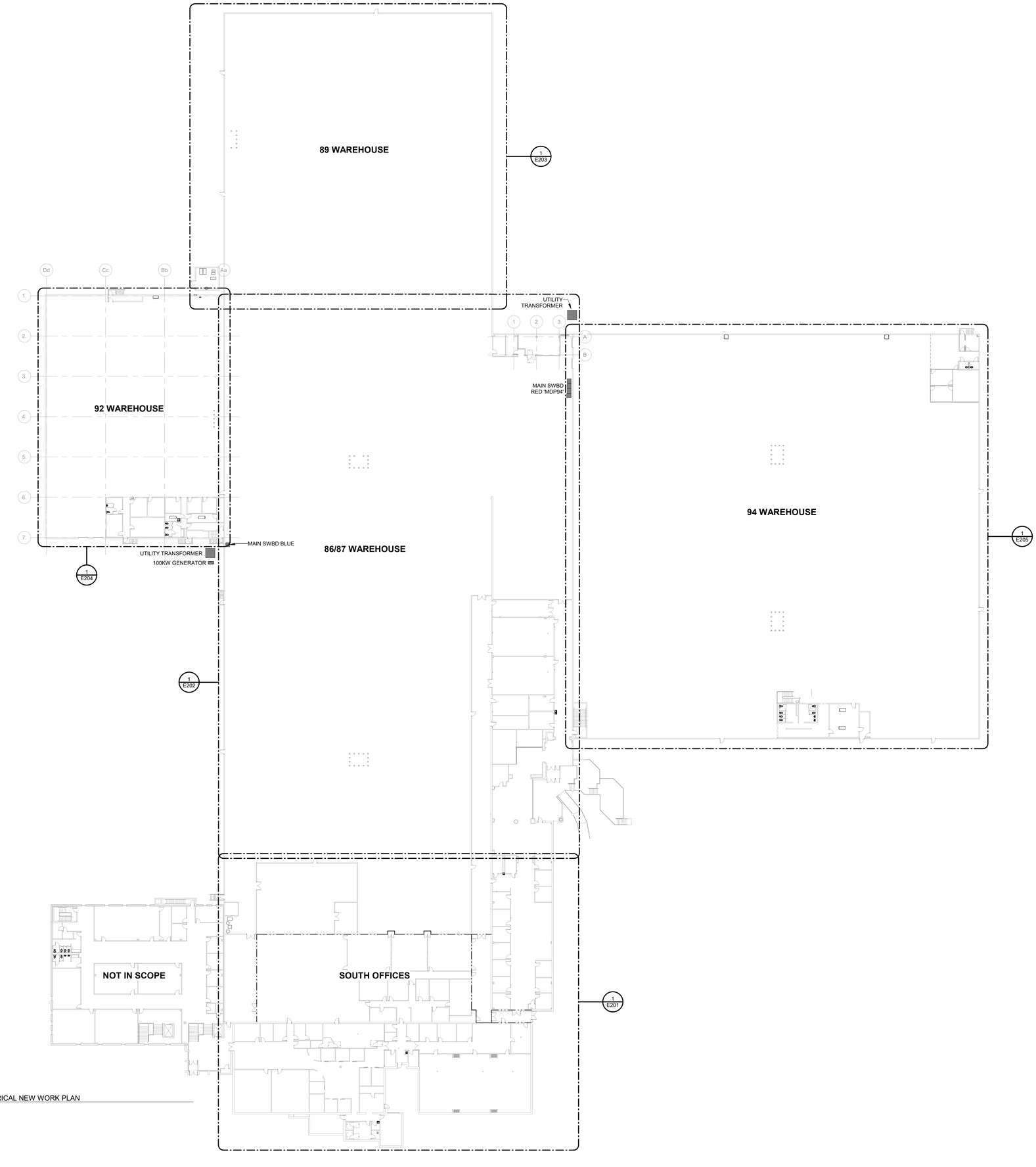


DRAWING NAME
ELECTRICAL ROOF DEMOLITION PLAN

DRAWING NO.
E106

Drawn By: DK Checked By: SLE

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"



1 E206 OVERALL ELECTRICAL NEW WORK PLAN
1" = 30'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
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State Project No.	H59-6315-JM
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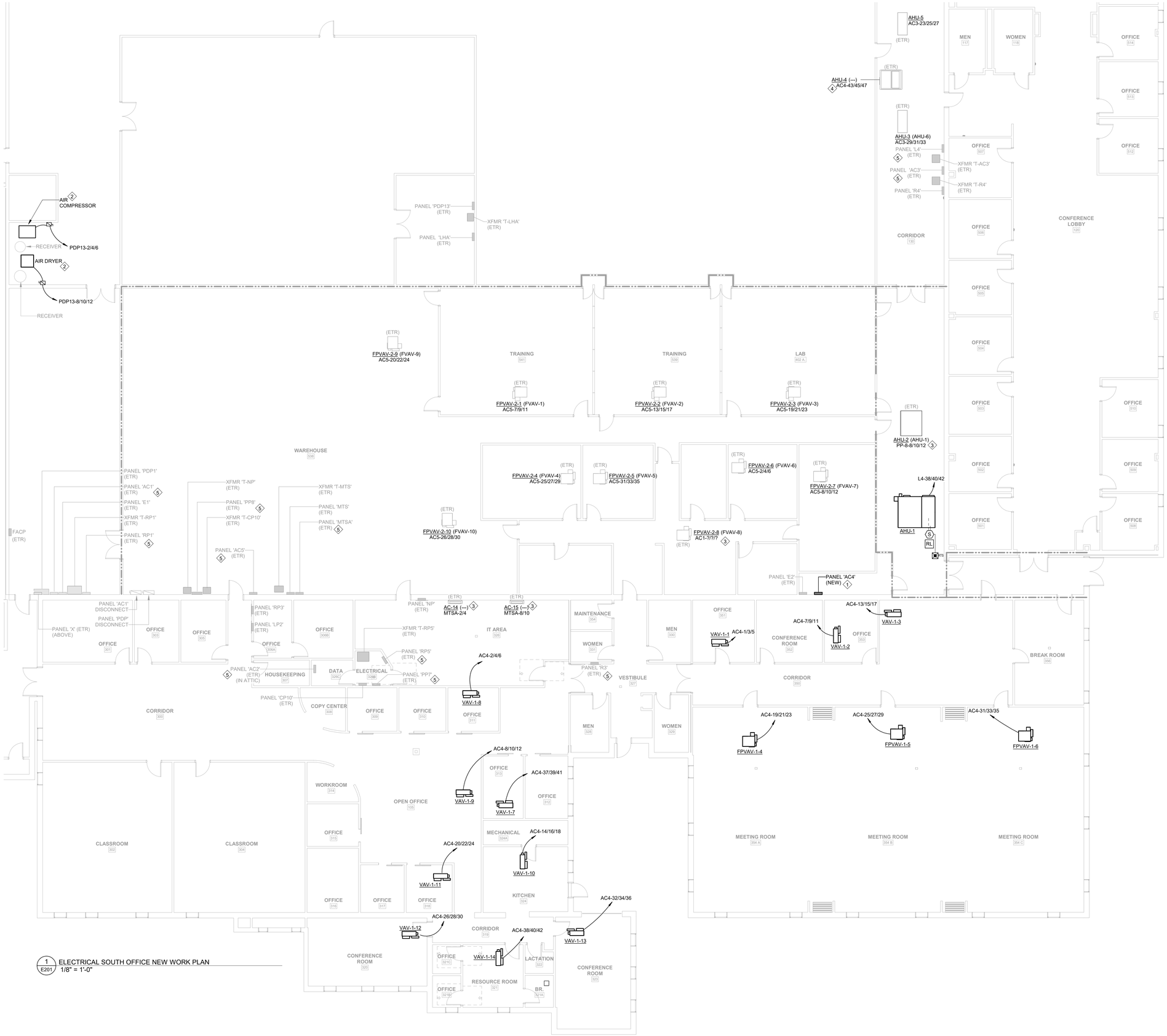
DRAWING NAME
ELECTRICAL OVERALL NEW WORK PLAN

DRAWING NO.
E200

Drawn By: DK Checked By: SLE



1 E201 ELECTRICAL SOUTH OFFICE NEW WORK PLAN
1/8" = 1'-0"

4"
3"
2"
1"
0"
(BAR GRAPHIC IS 4" AT FULL SCALE)

GENERAL NOTES:

A. REFER TO ELECTRICAL WIRING SCHEDULE ON SHEET E001 FOR EQUIPMENT WIRING AND DISCONNECT REQUIREMENTS FOR ALL NEW AND EXISTING EQUIPMENT TO BE WIRED AS PART OF THIS RENOVATION.

B. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E000.

C. PROVIDE WORKING CLEARANCE FOR ALL ELECTRICAL PANELBOARDS AND DISCONNECTS PER NEC.

D. COORDINATE EXACT CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT NAMEPLATE PRIOR TO WORK.

E. RE-LABEL ALL EXISTING HVAC EQUIPMENT AND ASSOCIATED ELECTRICAL DEVICES PER LABELING DETAIL ON SHEET E000. NEW NAME IS UNDERLINED AND OLD NAME IS IN (PARENTHESES). COORDINATE ALL NAMING WITH MECHANICAL CONTRACTOR.

F. THIS PROJECT UTILIZES A RETURN AIR PLENUM. ALL MATERIALS USED WITHIN THE PLENUM SHALL BE PLENUM RATED. COORDINATE WITH ALL OTHER TRADES PRIOR TO BEGINNING WORK.

PLAN NOTES: (#)

1. INSTALL NEW PANEL 'AC4' IN SAME LOCATION AS DEMOLISHED PANEL 'AC3'. RE-USE EXISTING CONDUIT FROM DEMOLITION PHASE FOR CONNECTION TO NEW PANEL.
2. RELOCATED AIR COMPRESSOR AND AIR DRYER. REFER TO PLAN 3/E300 FOR ORIGINAL LOCATION.
3. EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FOR BID PURPOSES, ASSUME SOURCE PANEL SHOWN AND VERIFY EXACT CIRCUIT IN FIELD. MARK EXISTING CIRCUIT ON AS-BUILTS.
4. EXISTING TO REMAIN HVAC EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FIELD VERIFY EXACT CIRCUIT. IF CIRCUIT SOURCE IS PANEL AC3 IN ELEC ROOM 402, DISCONNECT FROM PANEL AND RECONNECT TO NEW PANEL SHOWN. OTHERWISE, MARK EXISTING CIRCUIT ON AS-BUILTS AND UPDATE PANEL DIRECTORY WITH NEW EQUIPMENT NAME.
5. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED. LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

SEALS

SOUTH CAROLINA — NO. 22785 — REGISTERED PROFESSIONAL ENGINEER — 1-19-2026

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

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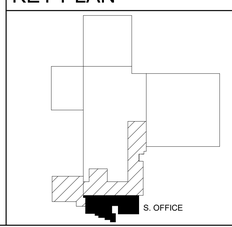
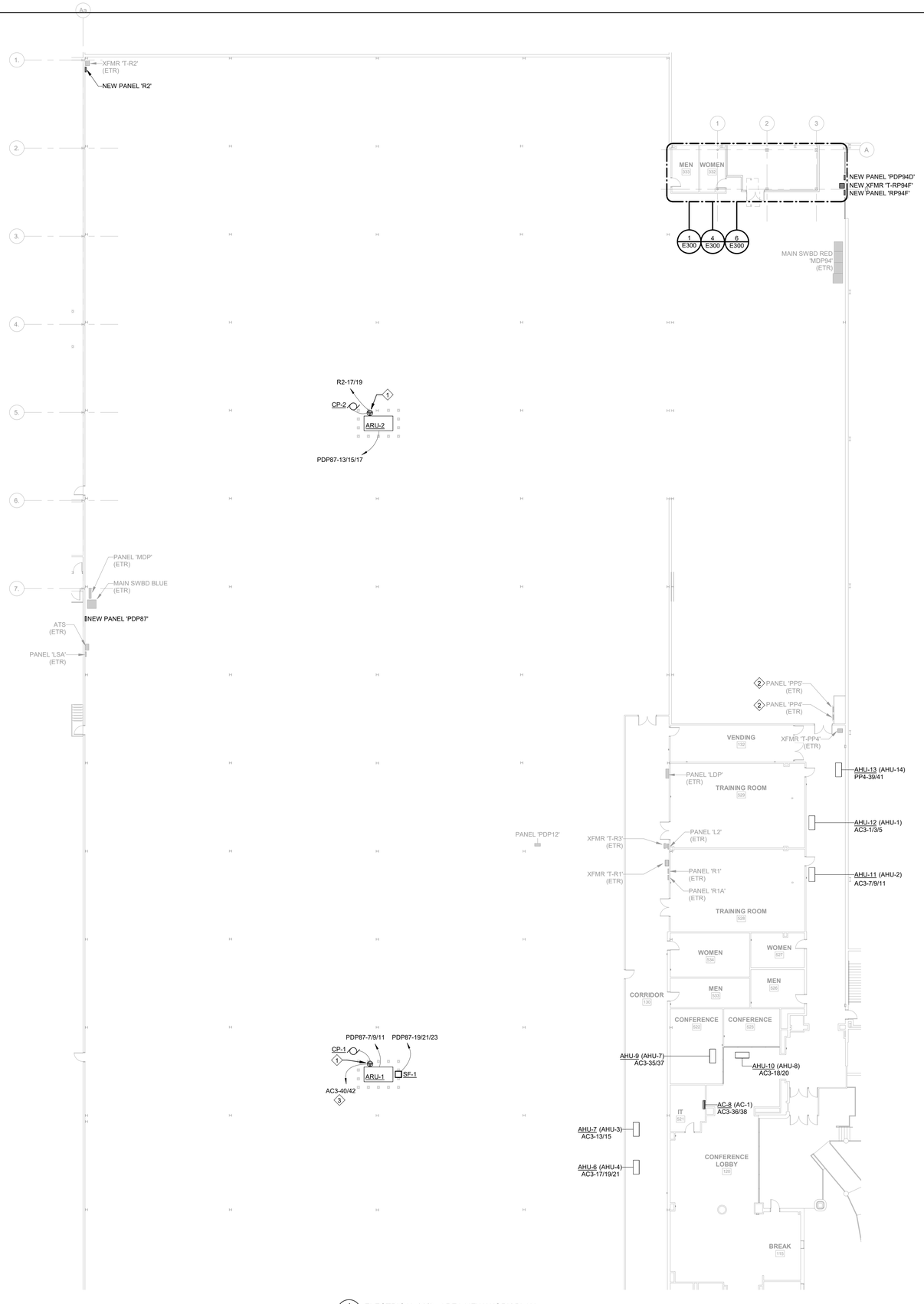
KEY PLAN



DRAWING NAME
ELECTRICAL SOUTH OFFICE NEW WORK PLAN

DRAWING NO.
E201

Drawn By: DK Checked By: SLE



1 E202 ELECTRICAL 86/87 AREA NEW WORK PLAN
1/16" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)

GENERAL NOTES:

A. REFER TO ELECTRICAL WIRING SCHEDULE ON SHEET E001 FOR EQUIPMENT WIRING AND DISCONNECT REQUIREMENTS FOR ALL NEW AND EXISTING EQUIPMENT TO BE WIRED AS PART OF THIS RENOVATION.

B. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E000.

C. PROVIDE WORKING CLEARANCE FOR ALL ELECTRICAL PANELBOARDS AND DISCONNECTS PER NEC.

D. COORDINATE EXACT CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT NAMEPLATE PRIOR TO WORK.

E. RE-LABEL ALL EXISTING HVAC EQUIPMENT AND ASSOCIATED ELECTRICAL DEVICES PER LABELING DETAIL ON SHEET E000. NEW NAME IS UNDERLINED AND OLD NAME IS IN (PARENTHESES). COORDINATE ALL NAMING WITH MECHANICAL CONTRACTOR.

F. THIS PROJECT UTILIZES A RETURN AIR PLENUM. ALL MATERIALS USED WITHIN THE PLENUM SHALL BE PLENUM RATED. COORDINATE WITH ALL OTHER TRADES PRIOR TO BEGINNING WORK.

PLAN NOTES: (#)

1. COORDINATE FINAL MOUNTING LOCATION OF RECEPTACLE FOR CONDENSATE PUMP WITH INSTALLATION OF PUMP.
2. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED. LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. SEE SHEET E201 FOR LOCATION OF PANEL 'AC3'.

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA

SHANNON L. LEWIS No. 22785 REGISTERED PROFESSIONAL ENGINEER — SOUTH CAROLINA — 1-19-2026

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
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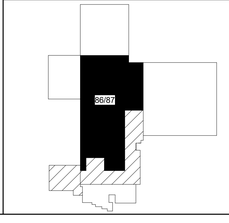
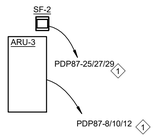
KEY PLAN

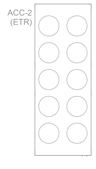


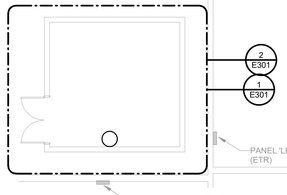
DRAWING NAME
ELECTRICAL 86/87 AREA NEW WORK PLAN

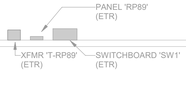
DRAWING NO.
E202

Drawn By: DK Checked By: SLE









1 E203 ELECTRICAL 89 AREA NEW WORK PLAN
1/8" = 1'-0"

0" 1" 2" 3" 4" (BAR GRAPHIC IS 4" AT FULL SCALE)

GENERAL NOTES:

A. REFER TO ELECTRICAL WIRING SCHEDULE ON SHEET E001 FOR EQUIPMENT WIRING AND DISCONNECT REQUIREMENTS FOR ALL NEW AND EXISTING EQUIPMENT TO BE WIRED AS PART OF THIS RENOVATION.

B. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E000.

C. PROVIDE WORKING CLEARANCE FOR ALL ELECTRICAL PANELBOARDS AND DISCONNECTS PER NEC.

D. COORDINATE EXACT CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT NAMEPLATE PRIOR TO WORK.

PLAN NOTES: (#)

1. SEE SHEET E202 FOR LOCATION OF PANEL 'PDP87'.
2. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. EXISTING PANEL 'PP1' TO BE RENAMED WITH DESIGNATION SHOWN.

SEALS

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA — REGISTERED — NO. 22785 — ENGINEER — SHANNON L. ELLIS — 1-19-2026

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CONSULTANT

PROJECT INFORMATION:

SCC SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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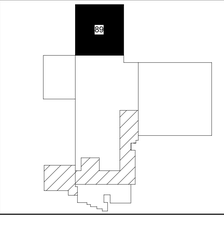
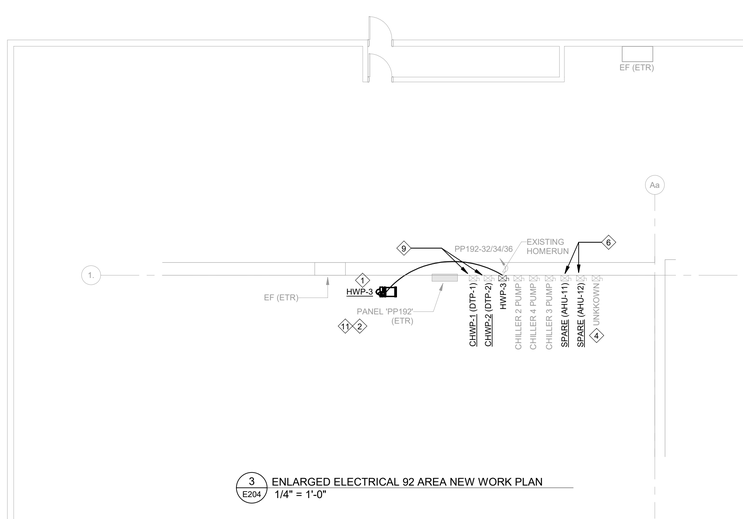
KEY PLAN



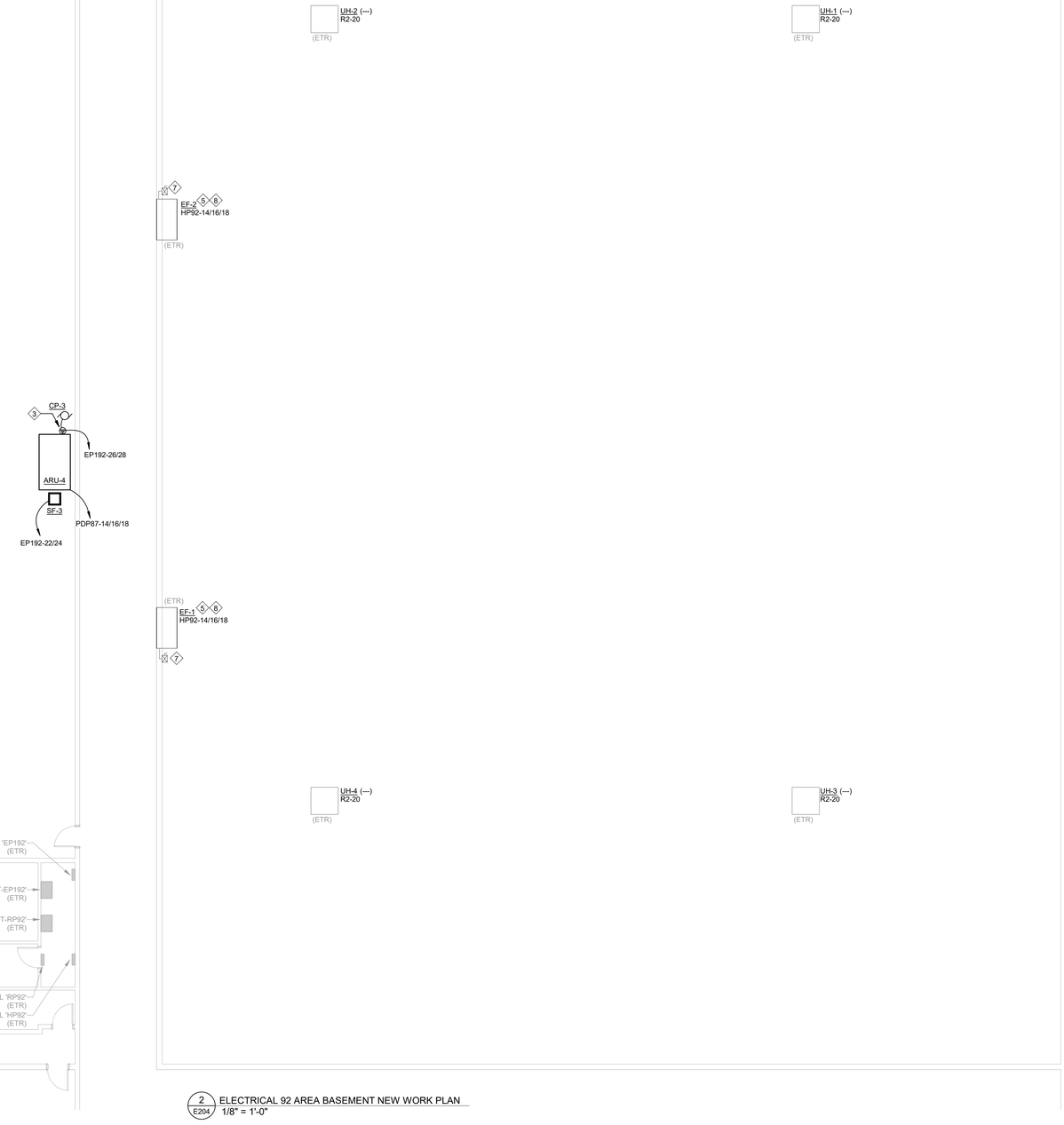
DRAWING NAME
ELECTRICAL 89 AREA NEW WORK PLAN

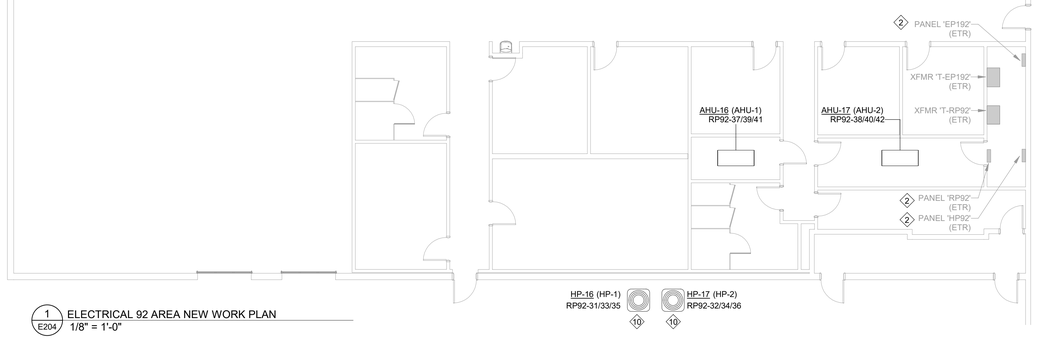
DRAWING NO.
E203

Drawn By: DK Checked By: SLE



3 E204 ENLARGED ELECTRICAL 92 AREA NEW WORK PLAN
1/4" = 1'-0"





1 E204 ELECTRICAL 92 AREA NEW WORK PLAN
1/8" = 1'-0"

2 E204 ELECTRICAL 92 AREA BASEMENT NEW WORK PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO ELECTRICAL WIRING SCHEDULE ON SHEET E001 FOR EQUIPMENT WIRING AND DISCONNECT REQUIREMENTS FOR ALL NEW AND EXISTING EQUIPMENT TO BE WIRED AS PART OF THIS RENOVATION.

B. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E000.

C. PROVIDE WORKING CLEARANCE FOR ALL ELECTRICAL PANELBOARDS AND DISCONNECTS PER NEC.

D. COORDINATE EXACT CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT NAMEPLATE PRIOR TO WORK.

E. RE-LABEL ALL EXISTING HVAC EQUIPMENT AND ASSOCIATED ELECTRICAL DEVICES PER LABELING DETAIL ON SHEET E000. NEW NAME IS UNDERLINED AND OLD NAME IS IN (PARENTHESES). COORDINATE ALL NAMING WITH MECHANICAL CONTRACTOR.

PLAN NOTES: (#)

1. CONNECT HWP-3 TO COMBINATION MOTOR STARTER WHICH PREVIOUSLY SERVED DEMOLISHED IN-LINE PUMP. SEE SINGLE LINE ON SHEET E401 FOR CONDUCTORS AND CONDUIT SIZES ALONG WITH COMBINATION MOTOR STARTER FUSE REPLACEMENT.
2. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED. LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. COORDINATE FINAL MOUNTING LOCATION OF RECEPTACLE FOR CONDENSATE PUMP WITH INSTALLATION OF PUMP.
4. FIELD VERIFY EQUIPMENT SERVED BY THIS COMBINATION MOTOR STARTER IS TO REMAIN IN SERVICE. IF EQUIPMENT IS NO LONGER OPERABLE OR IS TO BE REMOVED, REMOVE ALL ASSOCIATED CONDUCTORS AND CONDUIT BACK TO STARTER. IF EQUIPMENT IS TO REMAIN OPERATIONAL, PROVIDE NEW IDENTIFICATION NAMEPLATE PER LABELING DETAIL ON SHEET E000. SEE ALSO SHEET E401.
5. EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FOR BID PURPOSES, ASSUME SOURCE PANEL SHOWN AND VERIFY EXACT CIRCUIT IN FIELD. MARK EXISTING CIRCUIT ON AS-BUILTS.
6. VERIFY EXISTING COMBINATION MOTOR STARTER SERVES EQUIPMENT SHOWN. IF EQUIPMENT SERVED IS AS SHOWN, REMOVE WIRING FROM EQUIPMENT TO STARTER AND LABEL STARTER AS 'SPARE'. OTHERWISE, PROVIDE NEW IDENTIFICATION NAMEPLATE PER LABELING DETAIL ON SHEET E000. SEE ALSO SHEET E401.
7. ALTERNATE #1: REPLACE EXISTING COMBINATION MOTOR STARTER IN KIND AND RECONNECT TO EXISTING CIRCUIT.
8. ALTERNATE #1: FAN IS TO BE REPLACED IN KIND AND RECONNECTED TO NEW COMBINATION MOTOR STARTER.
9. ALTERNATE #2: EXISTING STARTER TO REMAIN AND BE LABELED 'SPARE'. SEE SHEETS E301 AND E401 FOR ADDITIONAL INFORMATION.
10. HEAT PUMP LABELING TO MATCH THAT OF THE INDOOR UNIT THAT IT IS ASSOCIATED WITH. COORDINATE NAMING WITH MECHANICAL CONTRACTOR.
11. EXISTING PANEL 'PP1' TO BE RENAMED TO DESIGNATION SHOWN.

0" 1" 2" 3" 4" (BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED NO. 22785 PROFESSIONAL ENGINEER STEPHANIE L. ELLIS 1-19-2026

CONSULTANT

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SPARTANBURG Community College

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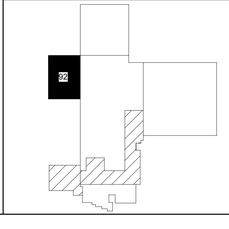
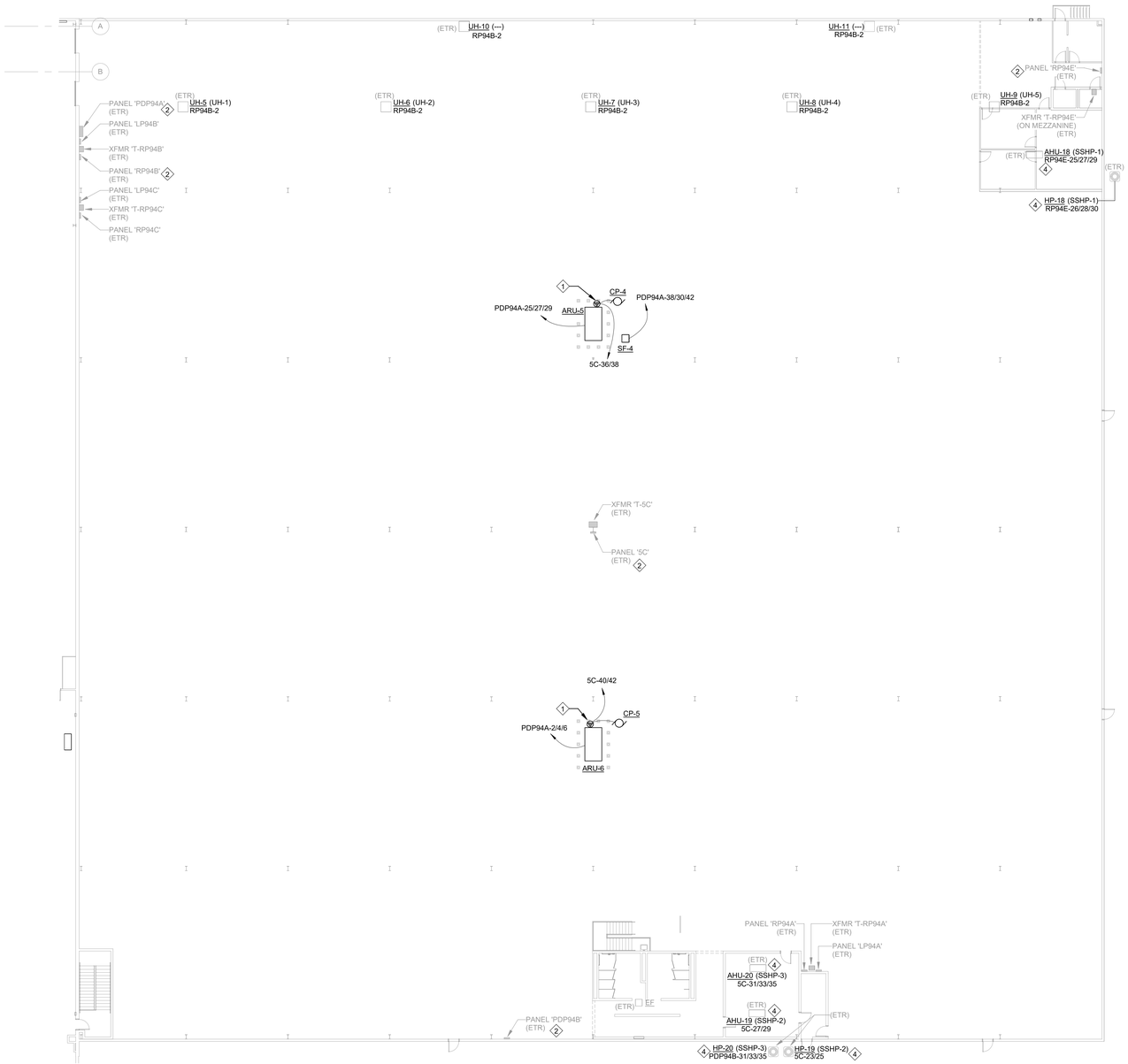


DRAWING NAME
ELECTRICAL 92 AREA NEW WORK PLAN

DRAWING NO.
E204

Drawn By: DK Checked By: SLE



1 E205 ELECTRICAL 94 AREA NEW WORK PLAN
1/16" = 1'-0"

4"
3"
2"
1"
0"
(BAR GRAPHIC IS 4" AT FULL SCALE)

GENERAL NOTES:

A. REFER TO ELECTRICAL WIRING SCHEDULE ON SHEET E001 FOR EQUIPMENT WIRING AND DISCONNECT REQUIREMENTS FOR ALL NEW AND EXISTING EQUIPMENT TO BE WIRED AS PART OF THIS RENOVATION.

B. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E000.

C. PROVIDE WORKING CLEARANCE FOR ALL ELECTRICAL PANELBOARDS AND DISCONNECTS PER NEC.

D. COORDINATE EXACT CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT NAMEPLATE PRIOR TO WORK.

E. RE-LABEL ALL EXISTING HVAC EQUIPMENT AND ASSOCIATED ELECTRICAL DEVICES PER LABELING DETAIL ON SHEET E000. NEW NAME IS UNDERLINED AND OLD NAME IS IN (PARENTHESES). COORDINATE ALL NAMING WITH MECHANICAL CONTRACTOR.

PLAN NOTES: (#)

1. COORDINATE FINAL MOUNTING LOCATION OF RECEPTACLE FOR CONDENSATE PUMP WITH INSTALLATION OF PUMP.

2. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

3. NOTE NOT USED.

4. EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FOR BID PURPOSES, ASSUME SOURCE PANEL SHOWN AND VERIFY EXACT CIRCUIT IN FIELD. MARK EXISTING CIRCUIT ON AS-BUILTS.

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22785 — REGISTERED PROFESSIONAL ENGINEER — SHANNON L. ELLIOTT — 1-19-2026

SEALS

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CONSULTANT

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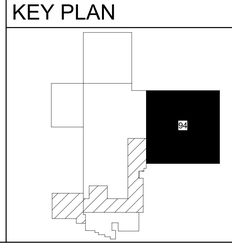
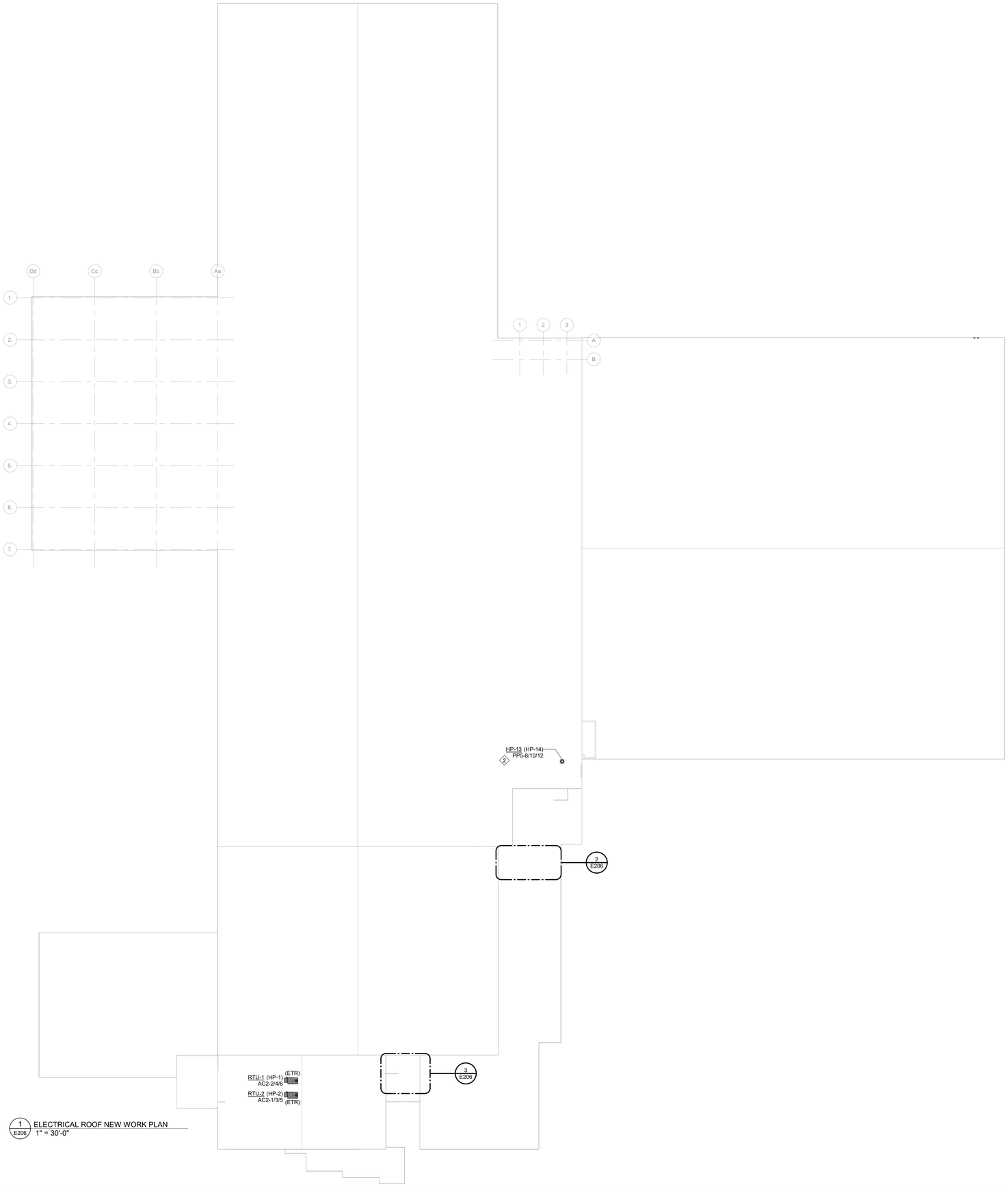


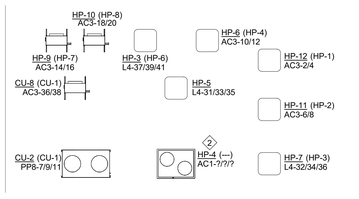
DRAWING NAME
ELECTRICAL 94 AREA NEW WORK PLAN

DRAWING NO.
E205

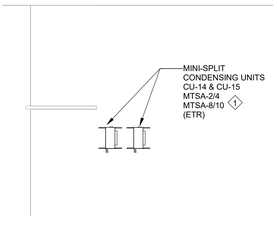
Drawn By: DK Checked By: SLE



1 E206 ELECTRICAL ROOF NEW WORK PLAN
1" = 30'-0"



2 E206 ENLARGED ELECTRICAL ROOF NEW WORK PLAN - NORTH
1/8" = 1'-0"



3 E206 ENLARGED ELECTRICAL ROOF NEW WORK PLAN - SOUTH
1/8" = 1'-0"

GENERAL NOTES:

A. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E001.

B. RE-LABEL ALL EXISTING HVAC EQUIPMENT AND ASSOCIATE ELECTRICAL DEVICES PER LABELING DETAIL ON SHEET E001. NEW NAME IS FIRST AND OLD NAME IS IN PARENTHESES. COORDINATE ALL NAMING WITH MECHANICAL CONTRACTOR.

C. PROVIDE WORKING CLEARANCE FOR ALL ELECTRICAL PANELBOARDS AND DISCONNECTS PER NEC.

D. COORDINATE EXACT CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT NAMEPLATE PRIOR TO WORK.

PLAN NOTES:

1. CONDENSING UNIT LABELING TO MATCH THAT OF THE INDOOR UNIT THAT IT IS ASSOCIATED WITH. COORDINATE NAMING WITH MECHANICAL CONTRACTOR.
2. EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FOR BID PURPOSES, ASSUME SOURCE PANEL SHOWN AND VERIFY EXACT CIRCUIT IN FIELD. MARK EXISTING CIRCUIT ON AS-BUILTS.

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA

ELECTRICAL ENGINEER NO. 22785 — JOSEPH L. LEPORE — SOUTH CAROLINA
1-19-2026

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CONSULTANT

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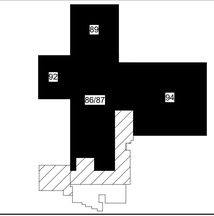
KEY PLAN



DRAWING NAME
ELECTRICAL ROOF NEW WORK PLAN

DRAWING NO.
E206

Drawn By: DK Checked By: SLE

(BAR GRAPHIC IS 4" AT FULL SCALE)
4" 3" 2" 1" 0"

TRACING & LABELING SCOPE

TLA. EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.

TLB. TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.

TLC. LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

TLD. FOR EXISTING CIRCUITS WITHOUT A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL; FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

TLE. ALL ELECTRICAL EQUIPMENT, BOTH NEW AND EXISTING SHALL RECEIVE NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000.

GENERAL DEMOLITION NOTES:

DA. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED, AND/OR REROUTED. ASSUME WITHIN THE BASE BID AN ALLOWANCE FOR ADDITIONAL BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED THAT MAY NEED TO BE REMOVED OR RELOCATED TO ACCOMMODATE NEW CONSTRUCTION.

DB. FOR ALL EXISTING FIXTURES, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.

DC. FIELD VERIFY ALL CIRCUITS.

DD. FOR ITEMS TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

DE. HATCHING ////// DENOTES ITEMS TO BE REMOVED.

DF. "ETR" DENOTES EXISTING TO REMAIN.

GENERAL NEW WORK NOTES:

NA. REFER TO ELECTRICAL WIRING SCHEDULE ON SHEET E001 FOR EQUIPMENT WIRING AND DISCONNECT REQUIREMENTS FOR ALL NEW AND EXISTING EQUIPMENT TO BE WIRED AS PART OF THIS RENOVATION.

NB. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E000.

NC. PROVIDE WORKING CLEARANCE FOR ALL ELECTRICAL PANELBOARDS AND DISCONNECTS PER NEC.

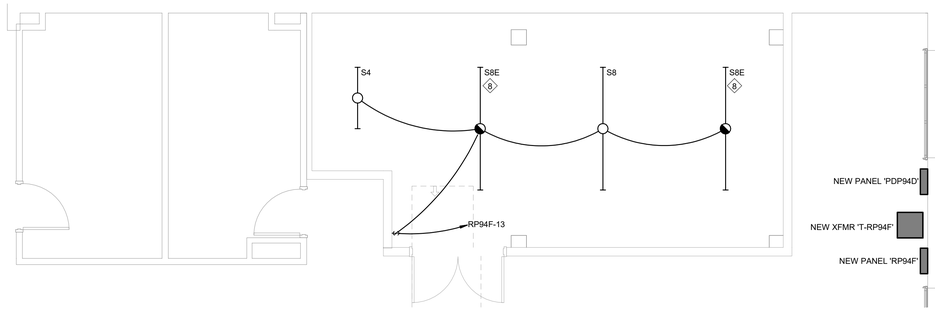
ND. COORDINATE EXACT CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT NAMEPLATE PRIOR TO WORK.

NE. REFER TO SHEET E001 FOR LIGHTING FIXTURE SCHEDULE.

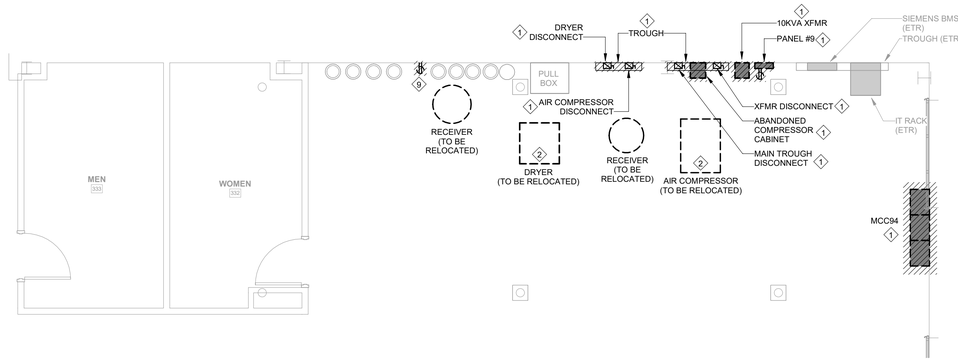
NF. ALL CONDUIT NEW AND EXISTING PENETRATING SMOKE BARRIER SHALL BE SEALED ON BOTH SIDES WITH CAULK EQUAL TO HILTI CP606.

PLAN NOTES: (#)

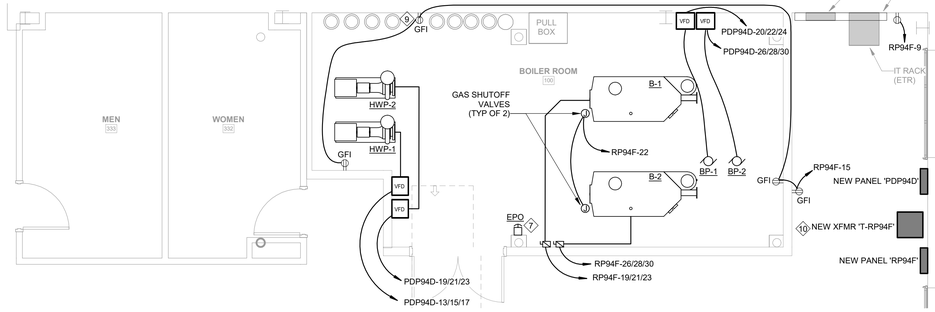
1. EXISTING EQUIPMENT TO BE REMOVED.
2. AIR COMPRESSOR AND AIR DRYER TO BE RELOCATED. SEE SHEET E201 FOR NEW LOCATION. REMOVE EXISTING CIRCUIT AND ASSOCIATED ELECTRICAL EQUIPMENT BACK TO SOURCE.
3. EXISTING PUMP DISCONNECT TO BE REPLACED WITH STARTER. EXTEND CIRCUIT AS NECESSARY FOR RECONNECTION.
4. EXISTING EQUIPMENT RACK IS TO REMAIN. VERIFY RACK IS IN GOOD AND USABLE CONDITION; REPLACE IF FOUND DEFECTIVE OR UNSUITABLE FOR REUSE.
5. MOUNT COMBINATION MOTOR STARTERS ON EXISTING EQUIPMENT RACK.
6. DISCONNECT CIRCUIT FROM PANEL TO BE DEMOLISHED. EXTEND CONDUCTORS/CONDUIT AS REQUIRED AND RECONNECT TO NEW PANEL. SEE SINGLE-LINE DIAGRAMS ON SHEETS E402 AND E403.
7. REFER TO BOILER EMERGENCY SHUTDOWN DETAIL ON SHEET E000 FOR WIRING INFORMATION.
8. EMERGENCY BATTERY SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR OF THE CIRCUIT.
9. REPLACE EXISTING RECEPTACLE WITH GFCI TYPE AS SHOWN AND RE-CIRCUIT WITH NEW RECEPTACLES IN THE SPACE.
10. PROVIDE 4" CONCRETE HOUSEKEEPING PAD FOR NEW TRANSFORMER.



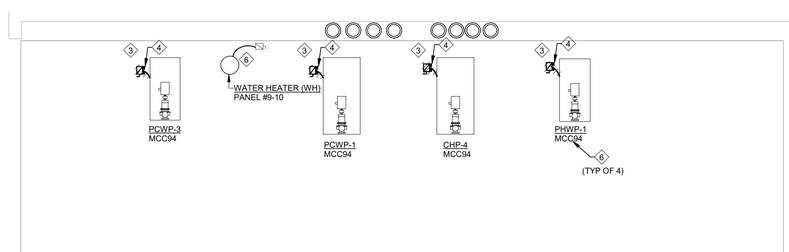
1 / E300 ENLARGED BOILER ROOM NEW WORK LIGHTING PLAN
1/4" = 1'-0"



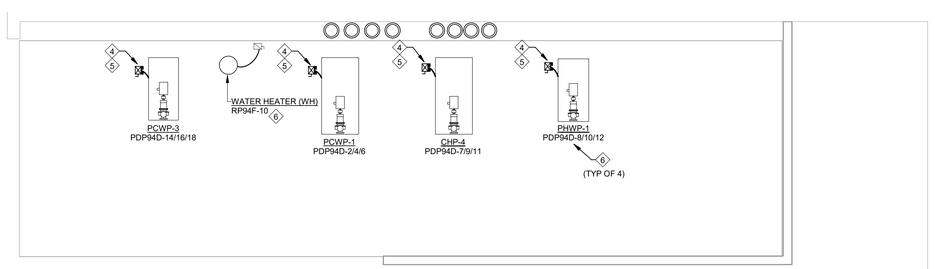
3 / E300 ENLARGED BELOW MEZZANINE DEMOLITION PLAN
1/4" = 1'-0"



4 / E300 ENLARGED BOILER ROOM NEW WORK POWER PLAN
1/4" = 1'-0"



5 / E300 ENLARGED MEZZANINE DEMOLITION PLAN
1/4" = 1'-0"



6 / E300 ENLARGED MEZZANINE NEW WORK PLAN
1/4" = 1'-0"

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"

SOUTH CAROLINA DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED NO. 22785 PROFESSIONAL ENGINEER BRANDON L. EPPS 1-19-2026

SEALS

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CONSULTANT

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DRAWING NAME
ELECTRICAL ENLARGED NEW BOILER AREA PLANS

DRAWING NO.
E300

Drawn By: DK Checked By: SLE

TRACING & LABELING SCOPE

TLA. EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.

TLB. TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.

TLC. LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

TLD. FOR EXISTING CIRCUITS WITHOUT A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL. FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

TLE. ALL ELECTRICAL EQUIPMENT, BOTH NEW AND EXISTING SHALL RECEIVE NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000.

GENERAL DEMOLITION NOTES:

DA. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED, AND/OR REROUTED.

DB. FOR ALL EXISTING FIXTURES, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.

DC. FIELD VERIFY ALL CIRCUITS.

DD. FOR DEVICES, FIXTURES, ETC. TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

DE. HATCHING ////// DENOTES ITEMS TO BE REMOVED.

DF. "ETR" DENOTES EXISTING TO REMAIN.

GENERAL NEW WORK NOTES:

NA. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E001.

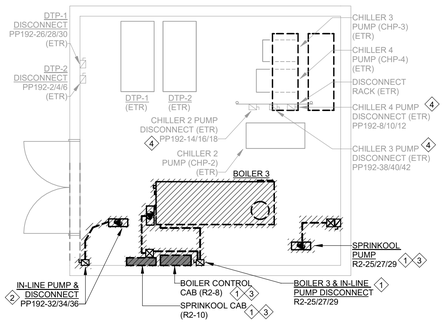
NB. PROVIDE WORKING CLEARANCE FOR ALL ELECTRICAL PANELBOARDS AND DISCONNECTS PER NEC.

NC. COORDINATE EXACT CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT NAMEPLATE PRIOR TO WORK.

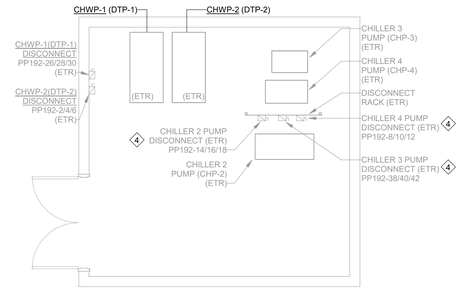
ND. RE-LABEL ALL EXISTING HVAC EQUIPMENT AND ASSOCIATED ELECTRICAL DEVICES PER LABELING DETAIL ON SHEET E000. NEW NAME IS UNDERLINED AND OLD NAME IS IN (PARENTHESES). COORDINATE ALL NAMING WITH MECHANICAL CONTRACTOR.

PLAN NOTES: (#)

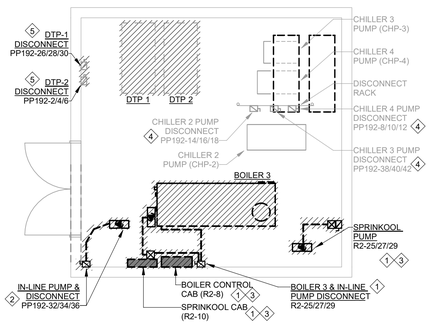
1. EXISTING EQUIPMENT TO BE REMOVED.
2. EXISTING PUMP TO BE REMOVED. REMOVE DISCONNECT AND ALL CONDUIT/CONDUCTORS BACK TO COMBINATION MOTOR STARTER PER PLAN NOTE 10 ON SHEET E104.
3. EQUIPMENT CIRCUIT COULD NOT BE VERIFIED. FOR BID PURPOSES, ASSUME SOURCE PANEL SHOWN AND VERIFY EXACT CIRCUIT IN FIELD. MARK EXISTING CIRCUIT ON AS-BUILTS.
4. EXISTING CHILLER PUMP DISCONNECT AND COMBINATION MOTOR STARTER LABELS ARE INCONSISTENT WITH PANEL DIRECTORY. VERIFY EXISTING CIRCUIT IS AS SHOWN AND PROVIDE NEW DIRECTORY IN PANEL AS CALLED OUT IN THE PANEL SCHEDULE. COORDINATE ALL NEW NAMING WITH MECHANICAL CONTRACTOR.
5. ALTERNATE #2: EXISTING DISCONNECT AND WIRING TO BE REMOVED. SEE SHEETS E104, E204, AND E401 FOR ADDITIONAL INFORMATION.
6. ALTERNATE #2: CONNECT NEW VFD (FURNISHED BY MECHANICAL CONTRACTOR) TO NEW PUMP. SEE SINGLE-LINE DIAGRAM ON SHEET E401 FOR WIRING SIZES AND TYPES.



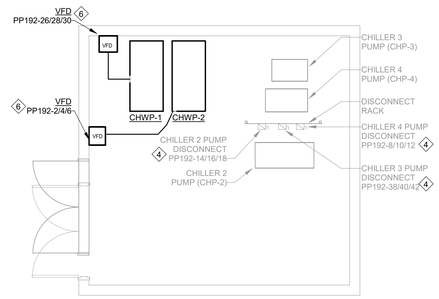
3 E301 ENLARGED ELECTRICAL BOILER SHED DEMOLITION PLAN - BASE BID
1/4" = 1'-0"



1 E301 ENLARGED ELECTRICAL BOILER SHED NEW WORK PLAN - BASE BID
1/4" = 1'-0"



4 E301 ENLARGED ELECTRICAL BOILER SHED DEMOLITION PLAN - ALTERNATE #2
1/4" = 1'-0"



2 E301 ENLARGED ELECTRICAL BOILER SHED NEW WORK PLAN - ALTERNATE #2
1/4" = 1'-0"

DEVITA & ASSOCIATES, INC.
No. C00415
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA

LICENSED
NO. 22785
PROFESSIONAL ENGINEER
REGISTERED
1-19-2026

SEALS

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CONSULTANT

PROJECT INFORMATION:

SCC
SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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DRAWING NAME
ELECTRICAL ENLARGED EXISTING BOILER AREA PLANS

DRAWING NO.
E301

Drawn By: DK Checked By: SLE

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3"

BLUE SERVICE LOAD SUMMARY (SPARTANBURG CC - TYGER RIVER CAMPUS)

EXISTING SERVICE: 480Y/277V, 3-PH, 4-WIRE, 2000A, 2000KVA UTILITY XFMR	
EXISTING PEAK DEMAND LOAD OVER PREVIOUS 36 MONTHS	554.4 KW
ASSUME 0.80 POWER FACTOR	693 KVA
EXISTING DEMAND LOAD AT 125%	866.25 KVA
EXISTING LOAD REMOVED	175.6 KVA
NEW LOAD ADDED	298.74 KVA
RESULTANT LOAD	989.39 KVA (1190A)

EXISTING SERVICE EQUIPMENT IS ADEQUATE

ELECTRICAL EQUIPMENT LABELING SCOPE

LABEL ALL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, DISCONNECTS, ETC. INDICATED ON THE SINGLE-LINE DIAGRAMS, BOTH NEW AND EXISTING, WITH NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000. USE DESIGNATIONS SHOWN ON THESE DIAGRAMS.

TRACING & LABELING SCOPE

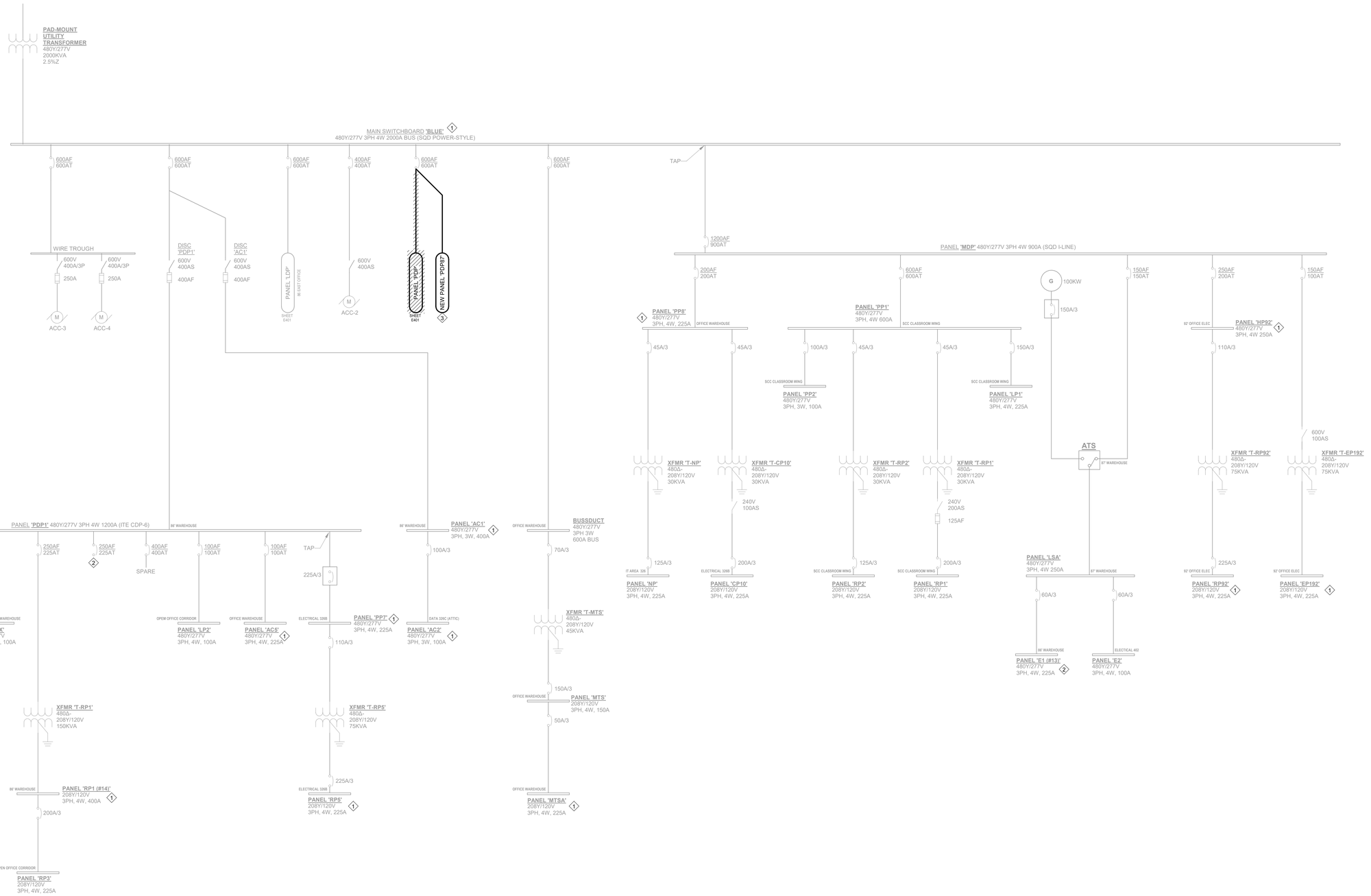
- TRACE ALL EXISTING CIRCUITS IN ALL EXISTING PANELS AFFECTED BY THIS PROJECT TO DETERMINE LOAD IDENTITY AND WHICH CIRCUITS ARE ACTIVE.
- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER LOADS FED FROM THESE PANELS WITH PANEL/CIRCUIT.
- LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

GENERAL NOTES:

A. EXISTING EQUIPMENT TO REMAIN IS SHOWN HALFTONE. DEMOLITION WORK IS SHOWN WITH HATCHING. NEW WORK IS SHOWN BOLD

SINGLE-LINE DIAGRAM NOTES:

1. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. PANEL FORMERLY NAMED 'LP1' WAS RE-FED FROM PANEL 'LSA' AND RE-DESIGNATED AS PANEL 'E-1'. VERIFY CONNECTION IS AS SHOWN. REMOVE ANY ABANDONED CONDUCTORS AND CONDUIT, AND LABEL CIRCUIT BREAKER IN PANEL 'PDP1' DESIGNATED FOR 'LP1' AS 'SPARE'.
3. REUSE EXISTING BREAKER FOR NEW FEEDER TO 'PDP87'. SEE SHEET E401.



1 E400 SINGLE LINE DIAGRAM - BLUE SERVICE
NOT TO SCALE

(BAR GRAPHIC IS 4" AT FULL SCALE) 0" 1" 2" 3"

SEALS

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA

REGISTERED NO. 22785 — SHANNON L. ELLIS — SOUTH CAROLINA — 1/19/2026

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CONSULTANT

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TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

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DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

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DRAWING NAME
ELECTRICAL SINGLE LINE - BLUE SERVICE

DRAWING NO.
E400

Drawn By: DK Checked By: SLE

ELECTRICAL EQUIPMENT LABELING SCOPE

LABEL ALL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, DISCONNECTS, ETC. INDICATED ON THE SINGLE-LINE DIAGRAMS, BOTH NEW AND EXISTING, WITH NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000. USE DESIGNATIONS SHOWN ON THESE DIAGRAMS.

TRACING & LABELING SCOPE

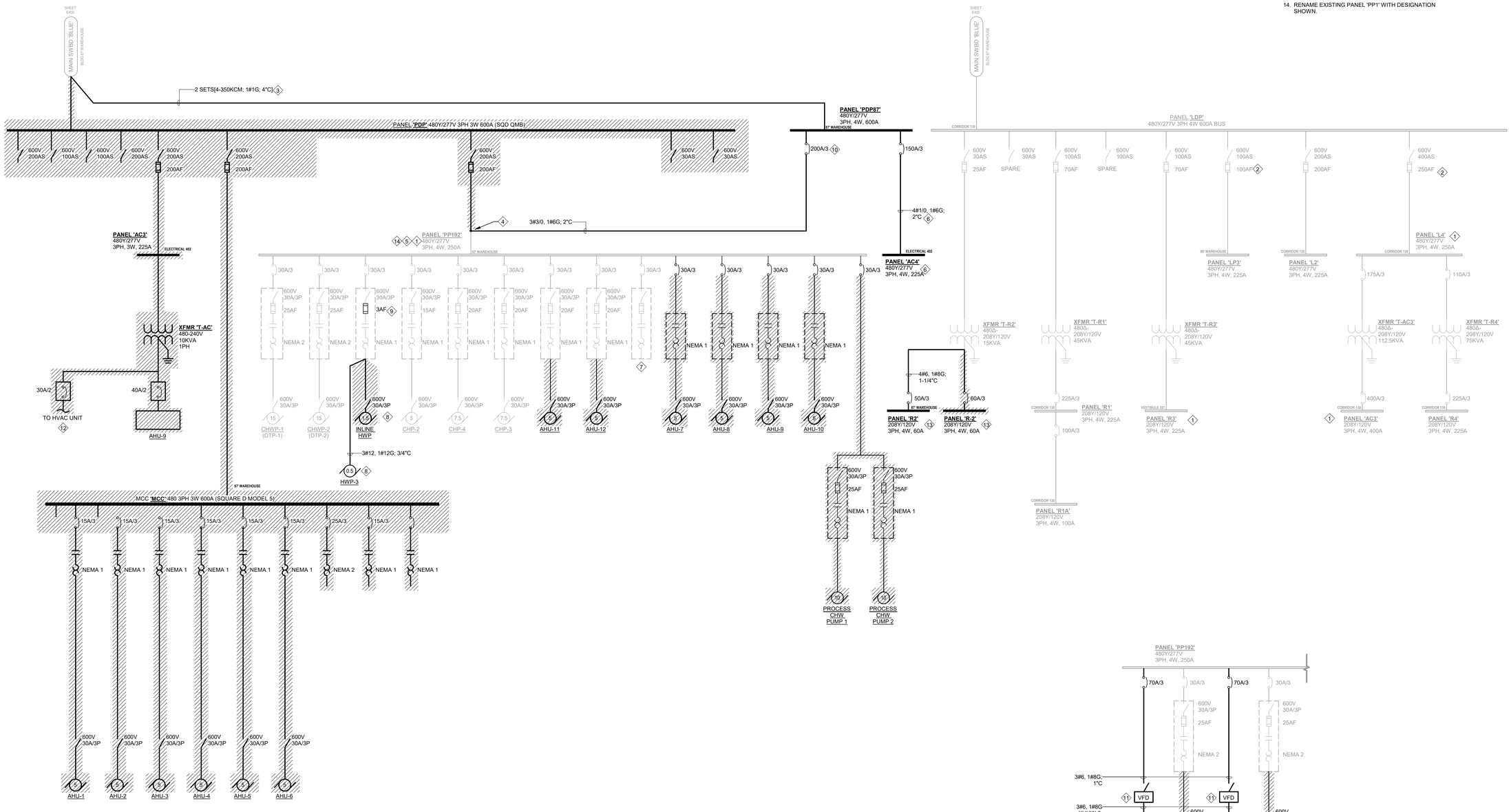
- TRACE ALL EXISTING CIRCUITS IN ALL EXISTING PANELS AFFECTED BY THIS PROJECT TO DETERMINE LOAD IDENTITY AND WHICH CIRCUITS ARE ACTIVE.
- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER LOADS FED FROM THESE PANELS WITH PANEL/CIRCUIT.
- LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

GENERAL NOTES:

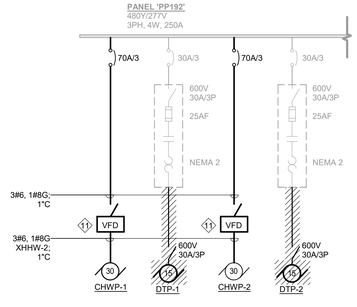
A. EXISTING EQUIPMENT TO REMAIN IS SHOWN HALFTONE. DEMOLITION WORK IS SHOWN WITH HATCHING. NEW WORK IS SHOWN BOLD

SINGLE-LINE DIAGRAM NOTES: (0)

1. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED. LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICATION OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. VERIFY FUSE SIZE IS AS SHOWN. IF DIFFERENT, MARK EXISTING FUSE SIZE ON AS-BUILTS.
3. PROVIDE NEW FEEDER TO EXISTING BREAKER IN MAIN SWBD BLUE. SEE SHEET E400.
4. DISCONNECT EXISTING PANEL 'PP1' FROM DEMOLISHED PANEL 'PDP' AND RECONNECT TO NEW PANEL "PDP87" AS SHOWN.
5. EXISTING PANEL LABEL SHOWS THAT IT IS 3 PHASE/4-WIRE ALTHOUGH IT IS FED FROM A PANEL WITH NO NEUTRAL. VERIFY IF PANEL IS 3-WIRE OR 4-WIRE AND PROVIDE NEW LABEL SHOWING CORRECT WIRE QUANTITY IF NECESSARY.
6. NEW PANEL IS TO BE INSTALLED IN SAME LOCATION AS DEMOLISHED PANEL 'AC3'. ROUTE NEW FEEDER SIZED SHOWN. EXISTING CONDUIT MAY BE RE-USED AND EXTENDED AS NECESSARY.
7. TRACE EQUIPMENT SERVED BY THIS EXISTING COMBINATION STARTER. PROVIDE NEW LABEL FOR THE COMBINATION MOTOR STARTER INDICATING THE EQUIPMENT SERVED. OTHERWISE, REMOVE AND TURN EQUIPMENT OVER TO OWNER.
8. EXISTING IN-LINE PUMP TO BE REMOVED AND REPLACED WITH NEW AT NEW LOCATION. RECONNECT TO EXISTING COMBINATION MOTOR STARTER AND CIRCUIT.
9. REPLACE EXISTING FUSES IN EXISTING COMBINATION MOTOR STARTER WITH NEW FUSES SIZED AS SHOWN.
10. PROVIDE CIRCUIT BREAKER IN NEW PANEL TO ADEQUATELY PROTECT EXISTING FEEDER. FIELD VERIFY EXISTING FEEDER SIZE PRIOR TO WORK.
11. VFD WITH INTEGRAL DISCONNECT IS FURNISHED WITH PUMP BY MECHANICAL, INSTALLED AND POWER WIRED BY ELECTRICAL.
12. FIELD VERIFY LOAD AND REMOVE CIRCUIT IN ITS ENTIRETY TO LOAD.
13. REPLACE EXISTING PANEL AND FEEDER WITH NEW PER SCHEDULE AND RECONNECT TO EXISTING TRANSFORMER.
14. RENAME EXISTING PANEL 'PP1' WITH DESIGNATION SHOWN.



1 E401 SINGLE LINE DIAGRAM - BLUE SERVICE CONT'D
NOT TO SCALE



2 E401 SINGLE LINE DIAGRAM - BLUE SERVICE ALTERNATE #2
NOT TO SCALE

(BAR GRAPHIC IS 4" AT FULL SCALE)

SEALS

CONSULTANT

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DRAWING NAME
ELECTRICAL SINGLE LINE - BLUE SERVICE CONT'D

DRAWING NO.
E401

Drawn By: DK Checked By: SLE

ELECTRICAL EQUIPMENT LABELING SCOPE

LABEL ALL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, DISCONNECTS, ETC. INDICATED ON THE SINGLE-LINE DIAGRAMS, BOTH NEW AND EXISTING, WITH NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000. USE DESIGNATIONS SHOWN ON THESE DIAGRAMS.

TRACING & LABELING SCOPE

- TRACE ALL EXISTING CIRCUITS IN ALL EXISTING PANELS AFFECTED BY THIS PROJECT TO DETERMINE LOAD IDENTITY AND WHICH CIRCUITS ARE ACTIVE.
- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER LOADS FED FROM THESE PANELS WITH PANEL/CIRCUIT.
- LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

GENERAL NOTES:

A. EXISTING EQUIPMENT TO REMAIN IS SHOWN HALFTONE. DEMOLITION WORK IS SHOWN WITH HATCHING. NEW WORK IS SHOWN BOLD

SINGLE-LINE DIAGRAM NOTES:

1. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. RELOCATE EXISTING ACTIVE CIRCUITS IN THIS DEMOLISHED PANEL TO NEW PANEL 'RP94F' SHOWN ON SHEET E403.
3. PUMP IS EXISTING TO REMAIN AND TO BE RECONNECTED TO NEW COMBINATION MOTOR STARTERS. REMOVE ALL WIRING AND ASSOCIATED DISCONNECTS AND PREPARE FOR RECONNECTION TO NEW EQUIPMENT AS SHOWN ON SHEET E403.
4. EXISTING AIR COMPRESSOR AND DRYER ARE TO BE RELOCATED. REMOVE WIRING AND DISCONNECTS AS SHOWN AND SEE SHEET E403 FOR WORK RELATED TO THE RELOCATION OF THE EQUIPMENT.
5. EXISTING WIRING TO REMAIN. EXTEND AS REQUIRED FOR NEW CONNECTION. ENSURE SIZE IS AS NOTED MINIMUM.

PAD-MOUNT UTILITY TRANSFORMER 480Y/277V 1500 KVA

600V 4000A BPS GFPE 4000A

MAIN SWITCHBOARD RED 'MDP94' (1)
480Y/277V 3PH 4W 4000A BUS (GE SPECTRA SERIES)

400AF 400AT — PANEL 'PDP12' 480Y/277V 3PH, 4W, 600A — 87' WAREHOUSE
100AF 100AT — PANEL 'PDP13' 480Y/277V 3PH, 4W, 100A (1) — 87' WAREHOUSE
45A/3P
DS3 240V 100A/3P
100AF — 87' WAREHOUSE
PANEL 'LHA' 208Y/120V 3PH. 4W, 400A

XFMR 'T-LHA' 480Δ-208Y/120V 30KVA

600AF 600AT — PANEL 'PDP94A' 480Y/277V 3PH, 4W 600A (1) — 94' WAREHOUSE
70A/3
XFMR 'T-RP94E' 480Δ-208Y/120V 45KVA
150A/3
TRUCKERS OFFICE
PANEL 'RP94E' 208Y/120V 3PH, 4W 150A (1)

150A/3
WIRE TROUGH
600V 30A/3P — 15A — 1/2 — AIR DRYER (4)
600V 100A/3P — 60A — 30 — AIR COMPRESSOR (4)

60A/3
600V 60A/3P — 60A
WIRE TROUGH
600V 30A/2P — 30A
XFMR 'T-9' 480-120/240V 10KVA
40A/2
PANEL '89' 120/240V 1PH, 3W 100A (2)

70A/3
600V 100A/3P — 100A
ABANDONED TRANSFORMER

250AF 225AT — PANEL 'LP94B' 480Y/277V 3PH, 4W 225A — 94' WAREHOUSE
45A/3
XFMR 'T-RP94B' 480Δ-208Y/120V 30KVA
100A/3
PANEL 'RP94B' 208Y/120V 3PH, 4W, 100A (1) — 94' WAREHOUSE

150AF 150AT — SPARE
250AF 225AT — SPARE
150AF 100AT — Fire Pump House — M — FIRE PUMP FP94

600AF 600AT — CHILLER #1 — M

250AF 225AT — PANEL 'PDP94C' 480Y/277V 3PH, 4W 400A — CHILLER SHED
25A/3
XFMR 'T-RP94D' 480Δ-208Y/120V 15KVA
60A/3
PANEL 'RP94D' 208Y/120V 3PH, 4W, 100A — CHILLER SHED

250AF 225AT — PANEL 'LP94A' 480Y/277V 3PH, 4W 225A — 94' OFFICE
45A/3
XFMR 'T-RP94A' 480Δ-208Y/120V 30KVA
100A/3
PANEL 'RP94A' 208Y/120V 3PH, 4W, 100A — 94' OFFICE

600AF 600AT — PANEL 'PP5' 480Y/277V 3PH, 4W 600A (1) — 87' OFFICE
200A/3
XFMR 'T-PP4' 480Δ-208Y/120V 150KVA
400A/3
PANEL 'PP4' 208Y/120V 3PH, 4W 400A (1) — 87' OFFICE

400AF 400AT — PANEL 'PDP94B' 480Y/277V 3PH, 4W, 600A (1) — 94' WAREHOUSE
90A/3P
XFMR 'T-5C' 480Δ-208Y/120V 75KVA
225A/3
PANEL '5C' 208Y/120V 3PH. 4W 250A (1) — 94' WAREHOUSE

250AF 225AT — PANEL 'LP94C' 480Y/277V 3PH, 4W 225A — 94' WAREHOUSE
45A/3
XFMR 'T-RP94C' 480Δ-208Y/120V 30KVA
100A/3
PANEL 'RP94C' 208Y/120V 3PH, 4W, 100A — 94' WAREHOUSE

100AF 100AT — SPARE
SPACE
60AF 60AT — SPARE

2500AS 2500AT L.I — SWBD 'SW1' 480Y/277V 3PH 4W 2500A BUS — 89' WAREHOUSE
60A/3
XFMR 'T-RP89' 480Δ-208Y/120V 45KVA
100A/3
PANEL 'RP89' 208Y/120V 3PH, 4W, 100A — 89' WAREHOUSE

MCC 'MCC94' 480 3PH 3W 600A (SQUARE D MODEL 5)

20A/3	20A/3	20A/3	20A/3	20A/3	60A/3	50A/3	20A/3	20A/3	20A/3	20A/3	25A/3	25A/3	25A/3	20A/3	15A/3	20A/3		
									SPARE	SPARE						SPARE		
7.5	7.5	7.5	7.5	7.5	25	20	7.5	7.5			10	10	10	7.5	5			
AHU-7	AHU-4	AHU-8	AHU-5	AHU-15	PCWP-1 (3)	CHP-4 (3)	AHU-6	AHU-16			AHU-1	AHU-2	AHU-3	PHWP-1 (3)	PCWP-3 (3)			

3#6, 1#10G; 1"C (5)
3#8, 1#10G; 1"C (5)
3#12, 1#12G; 3/4"C (5)

1 / E402 SINGLE LINE DIAGRAM - RED SERVICE
NOT TO SCALE

(BAR GRAPHIC IS 4" AT FULL SCALE) 0" 1" 2" 3" 4"

SEALS

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA — LICENSED — NO. 22785 — ENGINEER — SEAL — 1-19-2026

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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DRAWING NAME
ELECTRICAL SINGLE LINE - EXISTING RED SERVICE

DRAWING NO.
E402

Drawn By: DK Checked By: SLE

RED SERVICE LOAD SUMMARY (SPARTANBURG CC - TYGER RIVER CAMPUS)

EXISTING SERVICE: 480Y/277V, 3-PH, 4-WIRE, 4000A, 1500KVA UTILITY XFMR	
EXISTING PEAK DEMAND LOAD OVER PREVIOUS 36 MONTHS	308.16 KW
ASSUME 0.80 POWER FACTOR	385.2 KVA
EXISTING DEMAND LOAD AT 125%	481.5 KVA
EXISTING LOAD REMOVED	36.33 KVA
NEW LOAD ADDED	91.74 KVA
RESULTANT LOAD	536.91 KVA (645.8A)

EXISTING SERVICE EQUIPMENT IS ADEQUATE

ELECTRICAL EQUIPMENT LABELING SCOPE

LABEL ALL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, DISCONNECTS, ETC. INDICATED ON THE SINGLE-LINE DIAGRAMS, BOTH NEW AND EXISTING, WITH NEW IDENTIFICATION PLACARD PER DETAIL ON SHEET E000. USE DESIGNATIONS SHOWN ON THESE DIAGRAMS.

TRACING & LABELING SCOPE

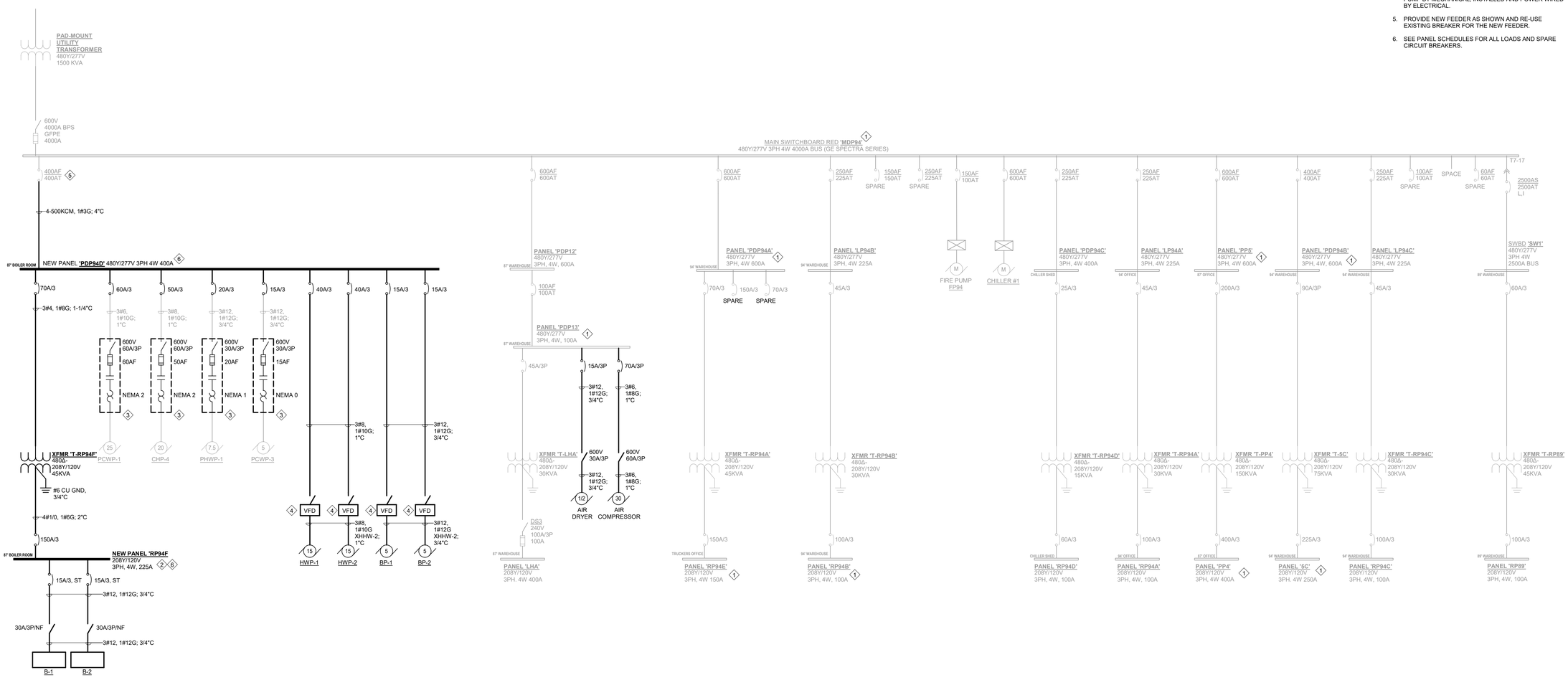
- TRACE ALL EXISTING CIRCUITS IN ALL EXISTING PANELS AFFECTED BY THIS PROJECT TO DETERMINE LOAD IDENTITY AND WHICH CIRCUITS ARE ACTIVE.
- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER LOADS FED FROM THESE PANELS WITH PANEL/CIRCUIT.
- LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

GENERAL NOTES:

A. EXISTING EQUIPMENT TO REMAIN IS SHOWN HALFTONE. DEMOLITION WORK IS SHOWN WITH HATCHING. NEW WORK IS SHOWN BOLD

SINGLE-LINE DIAGRAM NOTES:

1. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL TRACE OUT AND VERIFY ALL EXISTING CIRCUITS IN THIS PANEL. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. PROVIDE UPDATED PANEL DIRECTORY IN THIS EXISTING PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICAITON OF ALL EXISTING CIRCUITS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. CIRCUITS IN THIS NEW PANEL SHALL BE RELOCATED FROM DEMOLISHED PANEL '#9' SHOWN ON SHEET E402. SEE PANEL SCHEDULES ON SHEET E412.
3. PROVIDE NEW COMBINATION MOTOR STARTER FOR EXISTING PUMP. PROVIDE CONDUCTORS/CONDUIT REQUIRED FOR CONNECTION TO NEW SOURCE PANEL.
4. VFD WITH INTEGRAL DISCONNECT IS FURNISHED WITH PUMP BY MECHANICAL, INSTALLED AND POWER WIRED BY ELECTRICAL.
5. PROVIDE NEW FEEDER AS SHOWN AND RE-USE EXISTING BREAKER FOR THE NEW FEEDER.
6. SEE PANEL SCHEDULES FOR ALL LOADS AND SPARE CIRCUIT BREAKERS.



1 E403 SINGLE LINE DIAGRAM - PROPOSED RED SERVICE
NOT TO SCALE

DEVITA & ASSOCIATES, INC.
No. C00415
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA
NO. 22785
REGISTERED PROFESSIONAL ENGINEER
1-19-2026
SEALS

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DRAWING NAME
ELECTRICAL SINGLE LINE - PROPOSED RED SERVICE

DRAWING NO.
E403

Drawn By: DK Checked By: SLE

0" 1" 2" 3" (BAR GRAPHIC IS 4" AT FULL SCALE)

PANEL AC1 (EXISTING)

VOLTAGE: 480/277 | 3 PH 3W | A/C RATING: EXISTING | REMARKS:
FEEDER AMP: 400 | MAINS: 400 MLO | MOUNTING: SURFACE | ITE - CDP-6
LUGS: | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
30/3	V	CONDEN. #2	5000	1	A	2	10000	TRB AH 1	V	100/3
↓	↓	↓	5000	3	B	4	10000	↓	↓	↓
↓	↓	↓	5000	5	C	6	10000	↓	↓	↓
100/3	V	TRB AH 14	10000	7	A	8	3000	TRB HP UNIT 2	V	20/3
↓	↓	↓	10000	9	B	10	3000	↓	↓	↓
↓	↓	↓	10000	11	C	12	3000	↓	↓	↓
100/3	V	TRB AH 13	10000	13	A	14	5000	TRB CU 13	V	30/3
↓	↓	↓	10000	15	B	16	5000	↓	↓	↓
↓	↓	↓	10000	17	C	18	5000	↓	↓	↓
100/3	E	A/C PANEL 2	23777	19	A	20	5000	EXISTING LOAD	V	30/3
↓	↓	↓	23777	21	B	22	5000	↓	↓	↓
↓	↓	↓	23777	23	C	24	5000	↓	↓	↓

Connected Load Per Phase | PH A: 71777 | PH B: 71777 | PH C: 71777

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	215331	0	0	0	0	0	215331	**259.0**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	215331	0	0	0	0	0	215331	**259.0**

PANEL AC2 (EXISTING)

VOLTAGE: 480/277 | 3 PH 3W | A/C RATING: EXISTING | REMARKS:
FEEDER AMP: 100 | MAINS: 100 MLO | MOUNTING: SURFACE | ITE - CDP-7
LUGS: - | FEED: BOTTOM | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
45/3	R	RTU-2	9367	1	A	2	14410	RTU-1	R	60/3
↓	↓	↓	9367	3	B	4	14410	↓	↓	↓
↓	↓	↓	9367	5	C	6	14410	↓	↓	↓
30/3	R	SPARE	0	7	A	8	0	SPACE		-
↓		↓	0	9	B	10	0	SPACE		-
↓		↓	0	11	C	12	0	SPACE		-
-		SPACE	0	13	A	14	0	SPACE		-
-		SPACE	0	15	B	16	0	SPACE		-
-		SPACE	0	17	C	18	0	SPACE		-

Connected Load Per Phase | PH A: 23777 | PH B: 23777 | PH C: 23777

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	71331	0	0	0	0	0	71331	**85.8**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	71331	0	0	0	0	0	71331	**85.8**

(CORRIDOR 130)

PANEL AC3 (EXISTING)

VOLTAGE: 208/120 | 3 PH 4W | A/C RATING: 10KAIC | REMARKS:
FEEDER AMP: 400 | MAINS: 400 MCB | MOUNTING: SURFACE | EATON - PRL1A
LUGS: | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
45/3	R	AHU-12	4224	1	A	2	3130	HP-12	R	60/2
↓	↓	↓	4224	3	B	4	3130	↓	↓	↓
↓	↓	↓	4224	5	C	6	3130	HP-11	R	60/2
45/3	R	AHU-11	4224	7	A	8	3130	↓	↓	↓
↓	↓	↓	4224	9	B	10	3130	HP-6	R	60/2
↓	↓	↓	4224	11	C	12	3130	↓	↓	↓
45/3	R	AHU-7	3661	13	A	14	738	HP-9	R	20/2
↓	↓	↓	3661	15	B	16	738	↓	↓	↓
45/3	R	AHU-6	4224	17	C	18	1284	HP-10 & AHU-10	R	15/2
↓	↓	↓	4224	19	A	20	1284	↓	↓	↓
↓	↓	↓	4224	21	B	22	0	SPARE	E	20/2
40/3	E	AHU-5	2880	23	C	24	0	↓	↓	↓
↓	↓	↓	2880	25	A	26	0	SPARE	E	30/2
↓	↓	↓	2880	27	B	28	0	↓	↓	↓
45/3	R	AHU-3	4224	29	C	30	1500	WH-2	E	20/2
↓	↓	↓	4224	31	A	32	1500	↓	↓	↓
↓	↓	↓	4224	33	B	34	260	EXHAUST FANS	E	20/1
15/3	R	AHU-9	166	35	C	36	1284	AC-8 & CU-8	R	20/2
↓	↓	↓	166	37	A	38	1284	↓	↓	↓
-		SPACE	0	39	B	40	125	CP-1	N	15/2
-		SPACE	0	41	C	42	125	↓	↓	↓

Connected Load Per Phase | PH A: 34669 | PH B: 30820 | PH C: 30395

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	95884	0	0	0	0	0	95884	**266.2**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	95884	0	0	0	0	0	95884	**266.2**

PANEL AC4 (NEW)

VOLTAGE: 480/277 | 3 PH 4W | A/C RATING: 14KAIC | REMARKS:
FEEDER AMP: 150 | MAINS: 225 MLO | MOUNTING: SURFACE
LUGS: | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
15/3		VAV-1-1	1000	1	A	2	500	VAV-1-8		15/3
↓		↓	1000	3	B	4	500	↓		↓
↓		↓	1000	5	C	6	500	↓		↓
15/3		VAV-1-2	667	7	A	8	1667	VAV-1-9		15/3
↓		↓	667	9	B	10	1667	↓		↓
↓		↓	667	11	C	12	1667	↓		↓
15/3		VAV-1-3	2333	13	A	14	833	VAV-1-10		15/3
↓		↓	2333	15	B	16	833	↓		↓
↓		↓	2333	17	C	18	833	↓		↓
15/3		FPVAV-1-4	2167	19	A	20	667	VAV-1-11		15/3
↓		↓	2167	21	B	22	667	↓		↓
↓		↓	2167	23	C	24	667	↓		↓
15/3		FPVAV-1-5	2167	25	A	26	833	VAV-1-12		15/3
↓		↓	2167	27	B	28	833	↓		↓
↓		↓	2167	29	C	30	833	↓		↓
15/3		FPVAV-1-6	2167	31	A	32	1000	VAV-1-13		15/3
↓		↓	2167	33	B	34	1000	↓		↓
↓		↓	2167	35	C	36	1000	↓		↓
15/3		VAV-1-7	500	37	A	38	833	VAV-1-14		15/3
↓		↓	500	39	B	40	833	↓		↓
↓		↓	500	41	C	42	833	↓		↓
30/3	RC	AHU-4	4500	43	A	44	0	SPACE		-
↓		↓	4500	45	B	46	0	SPACE		-
↓		↓	4500	47	C	48	0	SPACE		-
-		SPACE	0	49	A	50	0	SPACE		-
-		SPACE	0	51	B	52	0	SPACE		-
-		SPACE	0	53	C	54	0	SPACE		-

Connected Load Per Phase | PH A: 21834 | PH B: 21834 | PH C: 21834

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	65502	0	0	0	0	0	65502	**78.8**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	65502	0	0	0	0	0	65502	**78.8**

(ELEC 402)

PANEL AC3 (DEMO)

VOLTAGE: 480/277 | 3 PH 3W | A/C RATING: EXISTING | REMARKS:
FEEDER AMP: 200 | MAINS: 225 MLO | MOUNTING: SURFACE | GENERAL ELECTRIC
LUGS: | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
30/3	DEMO, V	AHU-7	0	1	A	2	0	AHU-9 & AC#9	DEMO, V	20/3
↓	↓	↓	0	3	B	4	0	VIA STEP-DOWN TRANSFORMER	↓	↓
↓	↓	↓	0	5	C	6	0	↓	↓	↓
30/3	DEMO, V	AHU-8	0	7	A	8	0	CU-7	DEMO, V	30/3
↓	↓	↓	0	9	B	10	0	↓	↓	↓
↓	↓	↓	0	11	C	12	0	↓	↓	↓
30/3	RELO,	AHU-1	0	13	A	14	0	CU-8	DEMO, V	30/3
↓	V	↓	0	15	B	16	0	↓	↓	↓
↓	↓	↓	0	17	C	18	0	↓	↓	↓

Connected Load Per Phase | PH A: 0 | PH B: 0 | PH C: 0

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	0	0	0	0	0	0	0	**0.0**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	0	0	0	0	0	0	**0.0**

PANEL AC5 (EXISTING)

VOLTAGE: 480/277 | 3 PH 4W | A/C RATING: 14KAIC | REMARKS:
FEEDER AMP: 100 | MAINS: 225 MLO | MOUNTING: SURFACE | EATON - PRL2A
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
60/3	E	SPARE	0	1	A	2	1859	FPVAV-2-6	R	15/3
↓	↓	↓	0	3	B	4	1859	↓	↓	↓
↓	↓	↓	0	5	C	6	1859	↓	↓	↓
15/3	R	FPVAV-2-1	2612	7	A	8	1527	FPVAV-2-7	R	15/3
↓	↓	↓	2612	9	B	10	1527	↓	↓	↓
↓	↓	↓	2612	11	C	12	1527	↓	↓	↓
15/3	R	FPVAV-2-2	2435	13	A	14	0	SPACE		
↓	↓	↓	2435	15	B	16	0	SPACE		
↓	↓	↓	2435	17	C	18	0	SPACE		
15/3	R	FPVAV-2-3	2612	19	A	20	2612	FPVAV-2-9	R	15/3
↓	↓	↓	2612	21	B	22	2612	↓	↓	↓
↓	↓	↓	2612	23	C	24	2612	↓	↓	↓
15/3	R	FPVAV-2-4	1527	25	A	26	2612	FPVAV-2-10	R	15/3
↓	↓	↓	1527	27	B	28	2612	↓	↓	↓
↓	↓	↓	1527	29	C	30	2612	↓	↓	↓
15/3	R	FPVAV-2-5	1527	31	A	32	0	SPARE	E	20/3
↓	↓	↓ ↓	1527	33	B	34	0	↓ ↓	↓	↓
↓	↓	↓ ↓	1527	35	C	36	0	↓ ↓	↓	↓
		SPACE	0	37	A	38	0	SPACE		
		SPACE	0	39	B	40	0	SPACE		
		SPACE	0	41	C	42	0	SPACE		

Connected Load Per Phase | PH A: 19323 | PH B: 19323 | PH C: 19323

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	57969	0	0	0	0	0	57969	**69.7**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	57969	0	0	0	0	0	57969	**69.7**

PANEL L4 (EXISTING)

VOLTAGE: 480/277 | 3 PH 4W | A/C RATING: 25KAIC | REMARKS:
FEEDER AMP: 250 | MAINS: 250 MLO | MOUNTING: SURFACE | EATON - PRL3A
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
-		SPACE	0	1	A	2	0	SPACE		-
-		SPACE	0	3	B	4	1800	L COLLABORATION, TLTS	E	20/1
20/1	E	CORRIDORS	1600	5	C	6	2250	OFFICE, OPEN OFFICE	E	20/1
20/1	E	SPARE	0	7	A	8	1800	OFFICE, OPEN OFFICE	E	20/1
20/1	E	SPARE	0	9	B	10	2900	CORRIDORS / LTGS AT LEANNE DESK	E	20/1
20/1	E	SPARE	0	11	C	12	2400	MULTI-PURPOSE ROOMS	E	20/1
20/1	E	SPARE	0	13	A	14	2000	CONF. ROOMS / TOILETS	E	20/1
20/1	E	SPARE	0	15	B	16	0	SPACE		-
-		SPACE	0	17	C	18	0	SPACE		-
175/3	E	AC3 XFMR	34669	19	A	20	0	UNUSABLE SPACE		-
↓	↓	↓	30820	21	B	22	0	↓		-
↓	↓	↓	30395	23	C	24	0	↓		-
-		UNUSABLE SPACE	0	25	A	26	13260	R4 XFMR	E	110/3
-		↓	0	27	B	28	12380	↓	↓	↓
-		↓	0	29	C	30	11980	↓	↓	↓
15/3	E	HP5	1635	31	A	32	2494	HP-7	R	15/3
↓	↓	↓	1635	33	B	34	2494	↓	↓	↓
↓	↓	↓	1635	35	C	36	2494	↓	↓	↓
15/3	R	HP-3	2494	37	A	38	3109	AHU-1	N	20/3
↓	↓	↓	2494	39	B	40	3109	↓	↓	↓
↓	↓	↓	2494	41	C	42	3109	↓	↓	↓
-/3		SPACE	0	43	A	44	0	SPACE		-/3
↓		↓	0	45	B	46	0	↓		↓
↓		↓	0	47	C	48	0	↓		↓
-/3		SPACE	0	49	A	50	0	SPACE		-/3
↓		↓	0	51	B	52	0	↓		↓
↓		↓	0	53	C	54	0	↓		↓

Connected Load Per Phase | PH A: 61461 | PH B: 57632 | PH C: 58357

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	14750	125080	0	0	0	0	37620	177450	**213.4**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	18438	125080	0	0	0	0	37620	181138	**217.9**

PANEL SCHEDULE GENERAL NOTES:

A. EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR FIELD OBSERVATION. FIELD VERIFY ALL CIRCUITS.

B. VERIFY CIRCUITS OF EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. TURN SPARE BREAKERS OFF.

C. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN THESE DRAWINGS.

D. REUSE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED, TYPE, VOLTAGE RATING, AND AIC RATING TO MATCH EXISTING.

E. PANEL SCHEDULES REFLECT STATUS AFTER PROPOSED WORK IS COMPLETE.

PANEL NOTES:

DEMO - EXISTING CIRCUIT TO BE DEMOLISHED

E - EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN

LF - PROVIDE PADLOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT OF CIRCUIT BREAKER

LO - PROVIDE HANDLE CLAMP (LOCK-ON) FOR CIRCUIT BREAKER

N - PROVIDE NEW CIRCUIT BREAKER, TYPE, VOLTAGE, AND AIC RATING TO MATCH EXISTING

R - REUSE EXISTING BREAKER IN EXISTING PANEL FOR NEW LOAD OR DESCRIPTION INDICATED

RC - RECONNECT EXISTING CIRCUIT TO THIS LOCATION

RELO - RELOCATE THIS EXISTING CIRCUIT TO NEW SOURCE

ST - SHUNT-TRIP CIRCUIT BREAKER

V - VERIFY EXISTING LOAD PRIOR TO WORK AND PROVIDE DESCRIPTION IN NEW PANEL DIRECTORY.

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION

STATE OF SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — NO. 22785 — SCOTT L. ELLIOTT — 1-10-2026

SEALS

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

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Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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DRAWING NAME
ELECTRICAL PANEL SCHEDULES - OFFICE

DRAWING NO.
E410

Drawn By: DK Checked By: SLE

(BAR GRAPHIC IS 4" AT FULL SCALE)
0" 1" 2" 3" 4"

PANEL MTSA (EXISTING)

VOLTAGE: 208/120 | 3 PH 4W | AIC RATING: 10KAIC | REMARKS:
FEEDER AMP: 50 | MAINS: 225 MLO | MOUNTING: SURFACE | EATON - PRL1A
LUGS: - | FEED: BOTTOM | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	R. - 102	300	1	A	2	780	CU-14, AC-14	R	20/2
20/1	E	R. - 102	300	3	B	4	780	↓	↓	↓
20/1	E	R. - 102	300	5	C	6	0	SPARE	E	20/1
20/1	E	R. - 103	300	7	A	8	780	CU-15, AC-15	R	20/2
20/1	E	R. - 103	300	9	B	10	780	↓	↓	↓
20/1	E	R. - 103	300	11	C	12	0	SPACE		
20/1	E	R. - 104	300	13	A	14	0	SPACE		
20/1	E	R. - 104	300	15	B	16	0	SPACE		
20/1	E	R. - 104	300	17	C	18	0	SPACE		
		SPACE	0	19	A	20	0	SPACE		
		SPACE	0	21	B	22	0	SPACE		
		SPACE	0	23	C	24	0	SPACE		
		SPACE	0	25	A	26	0	SPACE		
		SPACE	0	27	B	28	0	SPACE		
		SPACE	0	29	C	30	0	SPACE		
		Connected Load Per Phase	**PH A:**	2460	**PH B:**	2460	**PH C:**	900		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	3120	0	2700	0	0	0	5820	**16.2**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	3120	0	2700	0	0	0	5820	**16.2**

PANEL PP5 (EXISTING)

VOLTAGE: 480/277 | 3 PH 4W | AIC RATING: 14KAIC | REMARKS:
FEEDER AMP: 600 | MAINS: 600 MLO | MOUNTING: FLUSH | SQUARE D - I-LINE
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	L. - MEZZANNE	500	1	A	2	5400	PANEL 'PP4' VIA XFMR 'T-PP4'	R	200/3
20/1	E	L. - HALL	500	3	B	4	8400	↓	↓	↓
20/1	E	L. - GUARD STATION	500	5	C	6	7400	↓	↓	↓
20/1	E	L. - STORAGE	500	7	A	8	2134	HP-13	R, V	20/3
20/1	E	LIGHTS	500	9	B	10	2134	↓	↓	↓
20/1	V	EXISTING LOAD	1000	11	C	12	2134	↓	↓	↓
20/1	V	EXISTING LOAD	1000	13	A	14	0	SPARE	E	20/3
20/1	V	EXISTING LOAD	1000	15	B	16	0	↓	↓	↓
20/1	V	EXISTING LOAD	1000	17	C	18	0	↓	↓	↓
-		SPACE	0	19	A	20	0	SPARE	E	20/3
-		SPACE	0	21	B	22	0	↓	↓	↓
20/1	V	EXISTING LOAD	1000	23	C	24	0	↓	↓	↓
-		SPACE	0	25	A	26	0	SPARE	E	20/3
-		SPACE	0	27	B	28	0	↓	↓	↓
-		SPACE	0	29	C	30	0	↓	↓	↓
-		SPACE	0	31	A	32	0	SPACE		-
-		SPACE	0	33	B	34	0	SPACE		-
-		SPACE	0	35	C	36	0	SPACE		-
-		SPACE	0	37	A	38	0	SPACE		-
-		SPACE	0	39	B	40	0	SPACE		-
-		SPACE	0	41	C	42	0	SPACE		-
		Connected Load Per Phase	**PH A:**	9534	**PH B:**	12534	**PH C:**	13034		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	3500	14102	0	2500	0	0	15000	35102	**42.2**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	4375	14102	0	2500	0	0	15000	35977	**43.3**

PANEL PP8 (EXISTING)

VOLTAGE: 480/277 | 3 PH 4W | AIC RATING: 18KAIC | REMARKS:
FEEDER AMP: 200 | MAINS: 225 MLO | MOUNTING: SURFACE | SQUARE D - L-LINE
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
45/3	E	DELTEC UPS SYSTEM XFMR	8313	1	A	2	9700	UNKNOWN LOAD	V	70/3
↓	↓	↓	8313	3	B	4	9700	↓	↓	↓
↓	↓	↓	8313	5	C	6	9700	↓	↓	↓
60/3	R, V	CU-2	9478	7	A	8	2439	AHU-2	R, V	15/3
↓	↓	↓	9478	9	B	10	2439	↓	↓	↓
↓	↓	↓	9478	11	C	12	2439	↓	↓	↓
45/3	E	COMPUTER RM PANEL	8313	13	A	14	0	SPACE		-
↓	↓	↓	8313	15	B	16	0	↓		-
↓	↓	↓	8313	17	C	18	0	↓		-
		Connected Load Per Phase	**PH A:**	38243	**PH B:**	38243	**PH C:**	38243		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	35751	0	0	0	0	78978	114729	**138.0**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	35751	0	0	0	0	78978	114729	**138.0**

PANEL R3 (EXISTING)

VOLTAGE: 208/120 | 3 PH 4W | AIC RATING: 10KAIC | REMARKS:
FEEDER AMP: 150 | MAINS: 225 MLO | MOUNTING: FLUSH | GENERAL ELECTRIC
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	R - ISO	300	1	A	2	300	ROOM 321 BATHROOM	E	20/1
20/1	V	UNKNOWN LOAD	500	3	B	4	500	UNKNOWN LOAD	V	20/2
20/1	V	UNKNOWN LOAD	500	5	C	6	500	↓	↓	↓
50/2	R, V	SPARE	0	7	A	8	0	SPARE	R	30/2
↓	↓	↓	0	9	B	10	0	↓	↓	↓
20/1	E	R - TRB FRONT OFF PH 3	500	11	C	12	500	R - TRB FRONT OFF PH 3	E	20/1
20/1	E	R - TRB FRONT OFF PH 3	500	13	A	14	500	R - TRB FRONT OFF PH 3	E	20/1
20/1	E	R - TRB FRONT OFF PH 3	500	15	B	16	500	R - TRB FRONT OFF PH 3 CUBICLES	E	20/1
20/1	E	R - TRB FRONT OFF PH 3 CUBICLES	500	17	C	18	500	R - TRB FRONT OFF PH 3	E	30/1
20/1	E	R - PERSONNEL	500	19	A	20	500	UNKNOWN LOAD	V	20/1
20/1	E	R - TRB FRONT OFF PH 3	500	21	B	22	500	RESTROOM EXHAUST FANS	E	20/1
20/1	E	R - TRB FRONT OFF PH 3	500	23	C	24	500	R - TRB FRONT OFF PH 3 CUBICLES	E	20/1
20/1	E	R - TRB FRONT OFF PH 3	500	25	A	26	500	R - TRB FRONT OFF PH 3 CUBICLES	E	20/1
20/1	E	R - TRB FRONT OFF PH 3 CUBICLES	500	27	B	28	500	R - TRB FRONT OFF PH 3 CUBICLES	E	20/1
20/1	E	R - TRB FRONT OFF PH 3 CUBICLES	500	29	C	30	500	R - TRB FRONT OFF PH 3 CUBICLES	E	20/1
20/1	E	R - TRB FRONT OFF PH 3 CUBICLES	500	31	A	32	500	R - TRB FRONT OFF PH 3 CUBICLES	E	20/1
20/1	E	ATTICK VENT	500	33	B	34	500	R - TRB FRONT OFF PH 3 CUBICLES	E	20/1
20/1	E	R - TRB FRONT OFF PH 3 CUBICLES	500	35	C	36	500	R - TRB FRONT OFF PH 3 CUBICLES	E	20/1
20/1	E	COPIER IN NEW OFFICE	500	37	A	38	500	R - CONF ROOM	E	20/1
20/1	E	WATER HEATER	1000	39	B	40	500	UNKNOWN LOAD	V	20/1
20/1	E	SOFFIT LIGHTS	300	41	C	42	500	R - ROOM 321	E	20/1
		Connected Load Per Phase	**PH A:**	5600	**PH B:**	6500	**PH C:**	6800		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	300	500	0	13600	0	0	4500	18900	**52.5**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	375	500	0	11800	0	0	4500	17175	**47.7**

PANEL PP4 (EXISTING)

VOLTAGE: 208/120 | 3 PH 4W | AIC RATING: 10KAIC | REMARKS:
FEEDER AMP: 400 | MAINS: 400 MCB | MOUNTING: FLUSH | SQUARE D - NQOO
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	R. - NEAR GUARD STATION	300	1	A	2	500	DOOR HOLDERS	E	20/1
20/1	E	R.- GUARD STATION	300	3	B	4	0	R. - HALL	V	20/1
20/1	E	R.- GUARD STATION	300	5	C	6	0	AIR HANDLER CONTROLS	V	20/1
20/1	E	WATER HEATER	1000	7	A	8	500	OUTDOOR FANS	E	20/1
20/1	E	FIRE PUMP REMOTE	500	9	B	10	500	EXISTING LOAD	E	20/1
20/1	E	AIR SCREEN	500	11	C	12	500	L. - OUTSIDE SPOTLIGHTS	E	20/1
20/1	E	R. - BAS CABINET	300	13	A	14	1000	GRINDER	E	20/1
20/1	E	LRG DONUT GLASS FRONT REFRIG	1000	15	B	16	500	WARMER	E	20/1
20/1	E	GLASS FRONT FREEZER	1000	17	C	18	500	WARMER	E	20/1
20/1	E	R. - BASE CABINET	300	19	A	20	500	R.- CASH REGISTER	E	20/1
20/1	E	ICE DISPENSER	500	21	B	22	500	L. - DISPLAY	E	20/1
20/1	E	COKE MACHINE	500	23	C	24	0	SPARE	E	30/2
20/1	E	L.&R. - AT CUBICLE	500	25	A	26	0	↓	↓	↓
20/1	V	EXISTING LOAD	500	27	B	28	0	AIR LOCK HEATER	V	20/2
20/1	V	EXISTING LOAD	500	29	C	30	0	↓	↓	↓
20/1	V	EXISTING LOAD	500	31	A	32	0	↓	↓	↓
20/1	V	EXISTING LOAD	500	33	B	34	0	COFFEE BREWER	V	40/2
30/2	E	SPARE	0	35	C	36	0	↓	↓	↓
↓	↓	↓	0	37	A	38	0	SPARE	E	30/2
60/2	R	AHU-13	3600	39	B	40	0	↓	↓	↓
↓	↓	↓	3600	41	C	42	0	SPARE	E	30/2
		SPACE	0	43	A	44	0	↓	↓	↓
		SPACE	0	45	B	46	0	SPARE	E	30/2
		SPACE	0	47	C	48	0	↓	↓	↓
		SPACE	0	49	A	50	0	SPARE	E	20/3
		SPACE	0	51	B	52	0	↓	↓	↓
		SPACE	0	53	C	54	0	↓	↓	↓
		Connected Load Per Phase	**PH A:**	5400	**PH B:**	8400	**PH C:**	7400		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	1000	7700	0	2500	0	0	10000	21200	**58.8**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	1250	7700	0	2500	0	0	10000	21450	**59.5**

PANEL PP7 (EXISTING)

VOLTAGE: 480/277 | 3 PH 4W | AIC RATING: 35KAIC | REMARKS:
FEEDER AMP: 225 | MAINS: 225 MLO | MOUNTING: SURFACE | EATON - PRL2A
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
45/3	R, V	SPARE	0	1	A	2	0	SPARE	R, V	25/3
↓	↓	↓	0	3	B	4	0	↓	↓	↓
↓	↓	↓	0	5	C	6	0	↓	↓	↓
20/3	V	EXISTING LOAD	3500	7	A	8	1500	EXISTING LOAD	V	20/1
↓	↓	↓	3500	9	B	10	0	SPARE	R, V	15/3
↓	↓	↓	3500	11	C	12	0	↓	↓	↓
20/1	V	EXISTING LOAD	1500	13	A	14	0	↓	↓	↓
20/1	V	EXISTING LOAD	1500	15	B	16	0	SPACE		
		SPACE	0	17	C	18	0	SPACE		
		SPACE	0	19	A	20	0	SPACE		
		SPACE	0	21	B	22	0	SPACE		
		SPACE	0	23	C	24	0	SPACE		
		SPACE	0	25	A	26	0	SPACE		
		SPACE	0	27	B	28	0	SPACE		
		SPACE	0	29	C	30	0	SPACE		
			4750		A		0			
110/3	SUB	PANEL 'RP5' VIA TRANSFORMER	4250		B		0	SUBFEED SPACE		
			3500		C		0			
		Connected Load Per Phase	**PH A:**	11250	**PH B:**	9250	**PH C:**	7000		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	0	0	10000	0	0	19000	29000	**34.9**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	0	10000	0	0	19000	29000	**34.9**

PANEL RP1 (EXISTING)

VOLTAGE: 208/120 | 3 PH 4W | AIC RATING: 10KAIC | REMARKS:
FEEDER AMP: 200 | MAINS: 400 MLO | MOUNTING: SURFACE | ITE - CDP-7
LUGS: | FEED: BOTTOM | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	AIR COMP OUT.	500	1	A	2	300	R - TIME CLOCK	E	20/1
20/1	E	TRIP EXT PACK	500	3	B	4	300	R - AT TAG MACHINE	E	20/1
-		SPACE	0	5	C	6	500	FA PANEL	E	20/1
20/1	E	DOCK LIGHTS	500	7	A	8	300	R - IN DISTR	E	20/1
20/1	E	R - IN DISTR.	300	9	B	10	300	R - TELEPHONE	E	20/1
20/1	E	R - IN DISTR.	300	11	C	12	300	R - OUTSIDE / PHOTOCEL	E	20/1
30/2	E	COMP.	1500	13	A	14	0	PANEL RP4	V	100/3
↓	↓	↓	1500	15	B	16	0	↓	↓	↓
20/1	E	R - TELEPHONE	300	17	C	18	0	↓	↓	↓
20/1	V	CONDENSING UNIT	1500	19	A	20	0	SPARE	R, V	40/2
↓	↓	↓	1500	21	B	22	0	↓	↓	↓
20/1	E	COMP.	1000	23	C	24	0	HP #1	V	100/2
30/3	V	CONDENSER #3	1800	25	A	26	0	↓	↓	↓
↓	↓	↓	1800	27	B	28	0	SPARE	R	20/2
↓	↓	↓	1800	29	C	30	0	↓	↓	↓
30/3	V	COMP.	1800	31	A	32	300	R - OFFICE	E	20/1
↓	↓	↓	1800	33	B	34	300	R - OFFICE	E	20/1
↓	↓	↓	1800	35	C	36	300	R - OFFICE	E	20/1
60/3	V	COMP.	3600	37	A	38	0	SPACE		-
↓	↓	↓	3600	39	B	40	0	SPACE		-
↓	↓	↓	3600	41	C	42	0	SPACE		-
			9500		A		0			
200/3	SUB	PANEL 'RP3'	9500		B		0	SUBFEED SPACE		
			9500		C		0			
		Connected Load Per Phase	**PH A:**	21600	**PH B:**	21400	**PH C:**	19400		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	500	3000	0	3300	0	0	55600	62400	**173.2**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	625	3000	0	3300	0	0	55600	62525	**173.6**

PANEL RP5 (EXISTING)

VOLTAGE: 208/120 | 3 PH 4W | AIC RATING: 22KAIC | REMARKS:
FEEDER AMP: 225 | MAINS: 225 MCB | MOUNTING: SURFACE | EATON - PRL1A
LUGS: | FEED: BOTTOM | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
80/2	E	SPARE	0	1	A	2	1250	WATER HEATER	E	30/2
↓	↓	↓	0	3	B	4	1250	↓	↓	↓
30/2	R	SPARE	0	5	C	6	500	REC BREAK ROOM	E	20/1
↓	↓	↓	0	7	A	8	500	REC BREAK ROOM	E	20/1
20/1	E	REC MAIN LOBBY	500	9	B	10	500	REC ROOM 312/313	E	20/1
20/1	E	REC ROOM 317/318	500	11	C	12	500	REC ROOM 308/309	E	20/1
20/1	E	REC EXEC. OFFICE	500	13	A	14	500	REC ROOM 309/310/311	E	20/1
20/1	E	REC ROOM 304	500	15	B	16	500	REC ROOM 315/316	E	20/1
20/1	E	REC ROOM 304	500	17	C	18	500	REC ROOM 316/317/318	E	20/1
20/1	E	REC ROOM 302	500	19	A	20	500	REC ROOM 317/318	E	20/1
20/1	E	REC ROOM 304	500	21	B	22	0	SPARE	E	20/1
20/1	E	REC ROOM 304	500	23	C	24	0	SPARE	E	20/1
20/1	E	REC ROOM 312	500	25	A	26	0	SPARE	E	20/1
20/1	E	REC ROOM 302	500	27	B	28	0	SPACE	-	-
20/1	E	REC ROOM 302	500	29	C	30	0	SPACE	-	-
20/1	E	REC ROOM 302	500	31	A	32	0	SPACE		-
-		SPACE	0	33	B	34	0	SPACE		-
-		SPACE	0	35	C	36	0	SPACE		-
-		SPACE	0	37	A	38	0	SPACE		-
60/2	R, V	SPARE	0	39	B	40	0	SPARE	R, V	30/2
↓	↓	↓	0	41	C	42	0	↓	↓	↓
		Connected Load Per Phase	**PH A:**	4750	**PH B:**	4250	**PH C:**	3500		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	0	0	10000	0	0	2500	12500	**34.7**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	0	10000	0	0	2500	12500	**34.7**

PANEL SCHEDULE GENERAL NOTES:

A. EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR FIELD OBSERVATION. FIELD VERIFY ALL CIRCUITS.

B. VERIFY CIRCUITS OF EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. TURN SPARE BREAKERS OFF.

C. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN THESE DRAWINGS.

D. REUSE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED, TYPE, VOLTAGE RATING, AND AIC RATING TO MATCH EXISTING.

E. PANEL SCHEDULES REFLECT STATUS AFTER PROPOSED WORK IS COMPLETE.

PANEL NOTES:

DEMO - EXISTING CIRCUIT TO BE DEMOLISHED

E - EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN

LF - PROVIDE PADLOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT OF CIRCUIT BREAKER

LO - PROVIDE HANDLE CLAMP (LOCK-ON) FOR CIRCUIT BREAKER

N - PROVIDE NEW CIRCUIT BREAKER, TYPE, VOLTAGE, AND AIC RATING TO MATCH EXISTING

R - REUSE EXISTING BREAKER IN EXISTING PANEL FOR NEW LOAD OR DESCRIPTION INDICATED

RC - RECONNECT EXISTING CIRCUIT TO THIS LOCATION

RELO - RELOCATE THIS EXISTING CIRCUIT TO NEW SOURCE

ST - SHUNT-TRIP CIRCUIT BREAKER

V - VERIFY EXISTING LOAD PRIOR TO WORK AND PROVIDE DESCRIPTION IN NEW PANEL DIRECTORY.

SOUTH CAROLINA — DEVITA & ASSOCIATES, INC. — No. C00415 — CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA — STEVEN L. ELLIS — NO. 22785 — REGISTERED PROFESSIONAL ENGINEER — 1-19-2026
SEALS

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
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C	01/19/26	OSE REVIEW COMMENTS

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DRAWING NAME
ELECTRICAL PANEL SCHEDULES - OFFICE CONT'D

DRAWING NO.
E411

Drawn By: DK Checked By: SLE

(BAR GRAPHIC IS 4" AT FULL SCALE) 0" 1" 2" 3" 4"

PANEL EP192 (EXISTING)

VOLTAGE: 208/120 | 3 PH 4W | AIC RATING: EXISTING | REMARKS:
FEEDER AMP: 225 | MAINS: 225 MLO | MOUNTING: SURFACE | EATON - PRL1A
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	RECEPTACLE	500	1	A	2	500	RECEPTACLE	E	20/1
20/1	E	RECEPTACLE	500	3	B	4	500	RECEPTACLE	E	20/1
20/2	E	SPARE	0	5	C	6	0	SPARE	E	20/2
↓	↓	↓	0	7	A	8	0	↓	↓	↓
20/1	E	RECEPTACLE	500	9	B	10	500	RECEPTACLE	E	20/1
20/1	E	RECEPTACLE	500	11	C	12	0	SPARE	E	20/1
20/1	E	RECEPTACLE	500	13	A	14	500	RECEPTACLE	E	20/1
20/1	E	RECEPTACLE	500	15	B	16	500	RECEPTACLE	E	20/1
20/1	E	RECEPTACLE	500	17	C	18	0	SPARE	E	20/2
20/1	E	RECEPTACLE	500	19	A	20	0	↓	↓	↓
20/1	E	RECEPTACLE	500	21	B	22	**416**	**SF-3**	**N**	**15/2**
20/1	E	RECEPTACLE	500	23	C	24	**416**	↓	↓	↓
20/1	E	RECEPTACLE	500	25	A	26	**125**	**CP-3**	**N**	**15/2**
20/1	E	RECEPTACLE	500	27	B	28	**125**	↓	↓	↓
20/1	E	RECEPTACLE	500	29	C	30	0	SPACE		-
20/2	E	SPARE	0	31	A	32	0	SPACE		-
↓	↓	↓	0	33	B	34	0	SPACE		-
-		SPACE	0	35	C	36	0	SPACE		-
-		SPACE	0	37	A	38	0	SPACE		-
-		SPACE	0	39	B	40	0	SPACE		-
-		SPACE	0	41	C	42	0	SPACE		-

Connected Load Per Phase PH A: 3125 | PH B: 4541 | PH C: 2416

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	832	250	9000	0	0	0	10082	**28.0**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	832	250	9000	0	0	0	10082	**28.0**

PANEL PDP13 (EXISTING)

VOLTAGE: 480/277 | 3 PH 4W | AIC RATING: 14KAIC | REMARKS:
FEEDER AMP: 100 | MAINS: 100 MLO | MOUNTING: SURFACE | EATON - PRL2A
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
30/3	V	**FUTURE CHILLER**	4150	1	A	2	11085	**AIR COMPRESSOR**	N	70/3
↓	↓	↓	4150	3	B	4	11085	↓	↓	↓
↓	↓	↓	4150	5	C	6	11085	↓	↓	↓
-		SPACE	0	7	A	8	998	**AIR DRYER**	N	15/3
-		SPACE	0	9	B	10	998	↓	↓	↓
-		SPACE	0	11	C	12	998	↓	↓	↓
-		SPACE	0	13	A	14	0	SPACE		-
-		SPACE	0	15	B	16	0	SPACE		-
-		SPACE	0	17	C	18	0	SPACE		-
-		SPACE	0	19	A	20	0	SPACE		-
-		SPACE	0	21	B	22	0	SPACE		-
-		SPACE	0	23	C	24	0	SPACE		-
-		SPACE	0	25	A	26	7000	PANEL 'LHA' VIA XFMR 'TZ'	E	45/3
-		SPACE	0	27	B	28	7000	↓	↓	↓
-		SPACE	0	29	C	30	7000	↓	↓	↓

Connected Load Per Phase PH A: 23233 | PH B: 23233 | PH C: 23233

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	0	0	0	0	0	69699	69699	**83.8**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	0	0	0	0	69699	69699	**83.8**

PANEL PP192 (EXISTING)

VOLTAGE: 480/277 | 3 PH 4W | AIC RATING: 18KAIC | REMARKS:
FEEDER AMP: 200 | MAINS: 250 MLO | MOUNTING: SURFACE | SQUARE D - NF
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1 | EXISTING PANEL 'PP1' RENAMED

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
30/3	R	**SPARE**	0	1	A	2	6291	**CHWP-2**	R	30/3
↓	**ALT2.2**	↓	0	3	B	4	6291	↓	**ALT2.1**	↓
↓	↓	↓	0	5	C	6	6291	↓	↓	↓
30/3	R	**SPARE**	0	7	A	8	3048	CHP-4	E	30/3
↓	**ALT2.2**	↓	0	9	B	10	3048	↓	↓	↓
↓	↓	↓	0	11	C	12	3048	↓	↓	↓
30/3	R	**SPARE**	0	13	A	14	2106	CHP-2	E	30/3
↓	↓	↓	0	15	B	16	2106	↓	↓	↓
↓	↓	↓	0	17	C	18	2106	↓	↓	↓
30/3	R	**SPARE**	0	19	A	20	0	**SPARE**	R	30/3
↓	↓	↓	0	21	B	22	0	↓	↓	↓
↓	↓	↓	0	23	C	24	0	↓	↓	↓
30/3	R	**SPARE**	0	25	A	26	5543	**CHWP-1**	R	30/3
↓	↓	↓	0	27	B	28	5543	↓	**ALT2.1**	↓
↓	↓	↓	0	29	C	30	5543	↓	↓	↓
30/3	R, V	**SPARE**	0	31	A	32	721	**HWP-3**	R	30/3
↓	↓	↓	0	33	B	34	721	↓	↓	↓
↓	↓	↓	0	35	C	36	721	↓	↓	↓
30/3	R	**SPARE**	0	37	A	38	3048	CHP-3	E	30/3
↓	↓	↓	0	39	B	40	3048	↓	↓	↓
↓	↓	↓	0	41	C	42	3048	↓	↓	↓

Connected Load Per Phase PH A: 20757 | PH B: 20757 | PH C: 20757

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	0	62271	0	0	0	0	62271	**74.9**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	62271	0	0	0	0	62271	**74.9**

PANEL R-2 (DEMO)

VOLTAGE: 208/120 | 3 PH 4W | AIC RATING: 10KAIC | REMARKS:
FEEDER AMP: 60 | MAINS: 60 MCB | MOUNTING: SURFACE | SQUARE D - NQOD
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	**RELO**	**BASEMENT OFFICES**	**500**	**1**	A		**0**	**MAIN BREAKER**	**DEMO**	**60/3**
20/1	**RELO**	**XRI OFFICE VENT RITE**	**500**	**3**	B		**0**	↓	↓	↓
20/1	**RELO**	**XRI OFFICE**	**500**	**5**	C		**0**	↓	↓	↓
20/1	**RELO**	**R. - UNDER PANEL AREA #5 W/C**	**500**	**7**	A	**2**	**500**	**FIRE ALARM NAC PANEL**	**RELO**	**20/1**
20/1	**RELO**	**WIRELESS TO BMW**	**500**	**9**	B	**4**	**500**	**EXTERIOR WALL REC**	**RELO**	**20/1**
20/1	**RELO**	**R. - BIG WAREHOUSE COLUMNS**	**500**	**11**	C	**6**	**500**	**EXTERIOR WALL REC**	**RELO**	**20/1**
20/1	**RELO**	**R. - BIG WAREHOUSE COLUMNS**	**500**	**13**	A	**8**	**0**	**BOILER CONTROLLER**	**DEMO**	**20/1**
20/1	**RELO**	**XRI OFFICE XRAY**	**1000**	**15**	B	**10**	**0**	**BOILER RM CONTROLS**	**DEMO**	**20/1**
20/1	**DEMO**	**AH 1-6 CONTROLS**	**0**	**17**	C	**12**	**500**	**R. - BOILER ROOM**	**RELO**	**20/1**
20/1	**DEMO**	**SPARE**	**0**	**19**	A	**14**	**500**	**L.&R. - BOILER ROOM**	**RELO**	**20/1**
20/1	**RELO**	**R. - GFI**	**500**	**21**	B	**16**	**500**	**EMS MFL CONTROLLER TEC-1**	**RELO**	**20/1**
20/1	**DEMO**	**AH 7-10 CONTROLS**	**0**	**23**	C	**18**	**500**	**L. - DOCK LIGHTS DOOR23-26**	**RELO**	**20/1**
20/3	**DEMO**	**BOILER BLOWER BURNER**	**125**	**25**	A	**20**	**500**	**UNIT HEATERS 1 THRU 4 (82 BASEMENT)**	**RELO**	**20/1**
↓	↓	↓	**125**	**27**	B	**22**	**2250**	**WATER HEATER AREA 5**	**RELO**	**30/2**
↓	↓	↓	**0**	**29**	C	**24**	**2250**	↓	↓	↓

Connected Load Per Phase PH A: 3125 | PH B: 5875 | PH C: 4750

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	500	0	250	5000	0	0	8000	13750	**38.2**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	625	0	250	5000	0	0	8000	13875	**38.5**

PANEL HP92 (EXISTING)

VOLTAGE: 480/277 | 3 PH 4W | AIC RATING: 35KAIC | REMARKS:
FEEDER AMP: 200 | MAINS: 250 MLO | MOUNTING: SURFACE | EATON - PRL3A
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
110/3	R	**PANEL 'RP92' VIA XFMR 'T-RP92'**	19681	1	A	2	300	WAREHOUSE LTS BACK CONTACTOR	E	20/1
↓	↓	↓	20431	3	B	4	300	WAREHOUSE LTS BACK CONTACTOR	E	20/1
↓	↓	↓	20631	5	C	6	500	WAREHOUSE LTS BACK	E	20/1
20/1	E	OFFICE LIGHTS/CORRIDOR	500	7	A	8	300	WAREHOUSE LTS FRONT CONTACTOR	E	20/1
20/1	E	OFFICE LIGHTS/CORRIDOR/STAIRS	500	9	B	10	300	WAREHOUSE LTS FRONT CONTACTOR	E	20/1
20/1	E	SPARE	0	11	C	12	500	WAREHOUSE LTS FRONT	E	20/1
30/3	E	BATTERY CHARGER	2500	13	A	14	1500	**BASEMENT FANS EF-1 AND EF-2**	**R, V**	**15/3**
↓	↓	↓	2500	15	B	16	1500	↓	↓	↓
↓	↓	↓	2500	17	C	18	1500	↓	↓	↓
-		SPACE	0	19	A	20	3500	SANDROB	E	40/3
-		SPACE	0	21	B	22	3500	↓	↓	↓
20/1	E	SPARE	0	23	C	24	3500	↓	↓	↓
20/1	E	SPARE	0	25	A	26	0	SPACE		-
20/1	E	SPARE	0	27	B	28	0	SPARE	E	20/1
20/1	E	SPARE	0	29	C	30	0	SPARE	E	20/1
20/1	E	SPARE	0	31	A	32	0	SPACE		-
20/1	E	SPARE	0	33	B	34	0	SPACE		-
-		SPACE	0	35	C	36	0	SPACE		-
-		SPACE	0	37	A	38	0	SPACE		-
-		SPACE	0	39	B	40	0	SPACE		-
-		SPACE	0	41	C	42	0	SPACE		-

Connected Load Per Phase PH A: 28281 | PH B: 29031 | PH C: 29131

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	2000	42843	0	10900	0	0	30700	86443	**104.0**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	2500	42843	0	10450	0	0	30700	86493	**104.0**

PANEL PDP87 (NEW)

VOLTAGE: 480/277 | 3 PH 4W | AIC RATING: 50KAIC | REMARKS:
FEEDER AMP: 600 | MAINS: 600 MLO | MOUNTING: SURFACE
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
150/3		PANEL 'ACs'	21834	1	A	2	20757	PANEL 'PP1'		200/3
↓		↓	21834	3	B	4	20757	↓		↓
↓		↓	21834	5	C	6	20757	↓		↓
40/3		ARU-1	6097	7	A	8	6097	ARU-3		40/3
↓		↓	6097	9	B	10	6097	↓		↓
↓		↓	6097	11	C	12	6097	↓		↓
40/3		ARU-2	6097	13	A	14	2716	ARU-4		20/3
↓		↓	6097	15	B	16	2716	↓		↓
↓		↓	6097	17	C	18	2716	↓		↓
15/3		SF-1	1192	19	A	20	0	SPACE		-
↓		↓	1192	21	B	22	0	SPACE		-
↓		↓	1192	23	C	24	0	SPACE		-
15/3		SF-2	942	25	A	26	0	SPACE		-
↓		↓	942	27	B	28	0	SPACE		-
↓		↓	942	29	C	30	0	SPACE		-
-		SPACE	0	31	A	32	0	SPACE		-
-		SPACE	0	33	B	34	0	SPACE		-
-		SPACE	0	35	C	36	0	SPACE		-
-		SPACE	0	37	A	38	0	SPACE		-
-		SPACE	0	39	B	40	0	SPACE		-
-		SPACE	0	41	C	42	0	SPACE		-

Connected Load Per Phase PH A: 65732 | PH B: 65732 | PH C: 65732

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	134925	62271	0	0	0	0	197196	**237.2**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	134925	62271	0	0	0	0	197196	**237.2**

PANEL RP92 (EXISTING)

VOLTAGE: 208/120 | 3 PH 4W | AIC RATING: 22KAIC | REMARKS:
FEEDER AMP: 225 | MAINS: 225 MCB | MOUNTING: SURFACE | EATON - PRL1A
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
30/1	E	RECEPTACLE	300	1	A	2	300	CONF ROOM RECEPT	E	20/1
20/1	E	CONF ROOM RECEPT 001	300	3	B	4	300	OFFICE RECEPT 007	E	20/1
20/1	E	WATER FOUNTAIN RECEPT	300	5	C	6	300	BR FAN/ JAN FAN	E	20/1
20/1	E	CANTEEN VENDING RECEPT	500	7	A	8	300	OFFICE RECEPT 009	E	20/1
20/1	E	CANTEEN VENDING RECEPT	500	9	B	10	300	OFFICE RECEPT 010	E	20/1
20/1	E	CANTEEN VENDING RECEPT	500	11	C	12	300	OFFICE RECEPT 018	E	20/1
20/1	E	CANTEEN GFI RECEPT	500	13	A	14	300	CORRIDOR 012	E	20/1
20/1	E	FAN ACTUATOR	100	15	B	16	300	FIRE ALARM PANEL	E	20/1
20/1	E	RECEPTACLE	300	17	C	18	300	ELECTRICAL ROOM RECEPT	E	20/1
20/1	E	WAREHOUSE BEAM RECEPT	300	19	A	20	300	WAREHOUSE BEAM RECEPT	E	20/1
20/3	E	ORTIS	500	21	B	22	500	BACK 220	E	20/2
↓	↓	↓	500	23	C	24	500	↓	↓	↓
↓	↓	↓	500	25	A	26	3700	COMPRESSOR	E	50/3
30/2	E	WATER HEATER	1250	27	B	28	3700	↓	↓	↓
↓	↓	↓	1250	29	C	30	3700	↓	↓	↓
25/3	R	**HP-16**	1537	31	A	32	3074	**HP-17**	R	25/3
↓	↓	↓	1537	33	B	34	3074	↓	↓	↓
↓	↓	↓	1537	35	C	36	3074	↓	↓	↓
30/3	R	**AHU-16**	2690	37	A	38	5380	**AHU-17**	R	30/2
↓	↓	↓	2690	39	B	40	5380	↓	↓	↓
↓	↓	↓	2690	41	C	42	5380	↓	↓	↓

Connected Load Per Phase PH A: 19681 | PH B: 20431 | PH C: 20631

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	38343	0	10900	0	0	11500	60743	**168.6**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	38343	0	10450	0	0	11500	60293	**167.4**

PANEL R2 (NEW)

VOLTAGE: 208/120 | 3 PH 4W | AIC RATING: 10KAIC | REMARKS:
FEEDER AMP: 50 | MAINS: 50 MCB | MOUNTING: SURFACE
LUGS: - | FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	RC	BASEMENT OFFICES	500	1	A	2	500	FIRE ALARM NAC PANEL	RC, LO	20/1
20/1	RC	XRI OFFICE VENT RITE	500	3	B	4	500	EXTERIOR WALL REC	RC	20/1
20/1	RC	XRI OFFICE	500	5	C	6	500	EXTERIOR WALL REC	RC	20/1
20/1	RC	R. - UNDER PANEL AREA #5 W/C	500	7	A	8	0	SPARE		20/1
20/1	RC	WIRELESS TO BMW	500	9	B	10	0	SPARE		20/1
20/1	RC	R. - BIG WAREHOUSE COLUMNS	500	11	C	12	500	R. - BOILER ROOM	RC	20/1
20/1	RC	R. - BIG WAREHOUSE COLUMNS	500	13	A	14	500	L.&R. - BOILER ROOM	RC	20/1
20/1	RC	XRI OFFICE XRAY	1000	15	B	16	500	EMS MFL CONTROLLER TEC-1	RC	20/1
15/2		CP-2	125	17	C	18	500	L. - DOCK LIGHTS DOOR23-26	RC	20/1
↓		↓	125	19	A	20	500	UNIT HEATERS 1 THRU 4 (82 BASEMENT)	RC	20/1
20/1	RC	R. - GFI	500	21	B	22	2250	WATER HEATER AREA 5	RC	30/2
20/1		SPARE	0	23	C	24	2250	↓	↓	↓
20/1		SPARE	0	25	A	26	0	SPARE		20/1
20/1		SPARE	0	27	B	28	0	SPARE		20/1
20/1		SPARE	0	29	C	30	0	SPARE		20/1
20/1		SPARE	0	31	A	32	0	SPARE		20/1
20/1		SPARE	0	33	B	34	0	SPARE		20/1
20/1		SPARE	0	35	C	36	0	SPARE		20/1
-		SPACE	0	37	A	38	0	SPACE		-
-		SPACE	0	39	B	40	0	SPACE		-
-		SPACE	0	41	C	42	0	SPACE		-

Connected Load Per Phase PH A: 3125 | PH B: 5750 | PH C: 4875

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	500	0	375	5000	0	0	8000	13875	**38.5**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	625	0	375	5000	0	0	8000	14000	**38.9**

PANEL SCHEDULE GENERAL NOTES:

A. EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR FIELD OBSERVATION. FIELD VERIFY ALL CIRCUITS.

B. VERIFY CIRCUITS OF EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. TURN SPARE BREAKERS OFF.

C. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN THESE DRAWINGS.

D. REUSE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED, TYPE, VOLTAGE RATING, AND AIC RATING TO MATCH EXISTING.

E. PANEL SCHEDULES REFLECT STATUS AFTER PROPOSED WORK IS COMPLETE.

PANEL NOTES:

ALT2.1 - ALTERNATE 2:
LOAD IS TO BE REMOVED AND CIRCUIT DESCIRPTION TO BE REVISED TO 'SPARE'

ALT2.2 - ALTERNATE 2:
PROVIDE NEW 70A/3P CIRCUIT BREAKER FOR NEW PUMP AS SHOWN IN SINGLE-LINE DIAGRAM 2/E401

DEMO - EXISTING CIRCUIT TO BE DEMOLISHED

E - EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN

LF - PROVIDE PADLOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT OF CIRCUIT BREAKER

LO - PROVIDE HANDLE CLAMP (LOCK-ON) FOR CIRCUIT BREAKER

N - PROVIDE NEW CIRCUIT BREAKER, TYPE, VOLTAGE, AND AIC RATING TO MATCH EXISTING

R - REUSE EXISTING BREAKER IN EXISTING PANEL FOR NEW LOAD OR DESCRIPTION INDICATED

RC - RECONNECT EXISTING CIRCUIT TO THIS LOCATION

RELO - RELOCATE THIS EXISTING CIRCUIT TO NEW SOURCE

ST - SHUNT-TRIP CIRCUIT BREAKER

V - VERIFY EXISTING LOAD PRIOR TO WORK AND PROVIDE DESCRIPTION IN NEW PANEL DIRECTORY.

(BAR GRAPHIC IS 4" AT FULL SCALE)

DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA REGISTERED LANDSCAPE ARCHITECT NO. 2278 SHANNON L. LEWIS 1-10-2026
SEALS

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PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST., DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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DRAWING NAME
ELECTRICAL PANEL SCHEDULES - AREAS 87 & 92

DRAWING NO.
E412

Drawn By: DK Checked By: SLE

PANEL PDP94A (EXISTING)

VOLTAGE: 480/277 3 PH 4W | AIC RATING: 18KAIC | REMARKS:
FEEDER AMP: 600 MAINS: 600 MLO | MOUNTING: SURFACE | SQUARE D - I-LINE
LUGS: - FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
70/3	E	40KVA FOR RPS4E	9006	1	A		2	6097	ARU-6	N	40/3
↓	↓	TOP OF SHIPPING OFFICE	9066	3		B	4	6097	↓	↓	↓
↓	↓	↓	9006	5		C	6	6097	↓	↓	↓
70/3	V	TRASH COMPACTOR	0	7	A		8	0	SPARE	R	150/3
↓	↓	↓	0	9		B	10	0	↓	↓	↓
↓	↓	↓	0	11		C	12	0	↓	↓	↓
30/3	V	TRASH LINE CONVEYOR	0	13	A		14	21000	BATTERY CHARGER	E	150/3
↓	↓	↓	0	15		B	16	21000	↓	↓	↓
↓	↓	↓	0	17		C	18	21000	↓	↓	↓
100/3	V	UPSTAIRS CANTEEN PANEL	0	19	A		20	0	DISCONNECTS ON WALL	E	30/3
↓	↓	↓	0	21		B	22	0	(BOX 1)	↓	↓
↓	↓	↓	0	23		C	24	0	↓	↓	↓
40/3	N	ARU-5	6097	25	A		26	0	BOX 2	E	30/3
↓	↓	↓	6097	27		B	28	0	↓	↓	↓
↓	↓	↓	6097	29		C	30	0	↓	↓	↓
150/3	V	BATTERY CHARGER	0	31	A		32	0	BOX 3	E	30/3
↓	↓	↓	0	33		B	34	0	↓	↓	↓
↓	↓	↓	0	35		C	36	0	↓	↓	↓
-		SPACE	0	37	A		38	1303	SF-4	N	15/3
-		SPACE	0	39		B	40	1303	↓	↓	↓
-		SPACE	0	41		C	42	1303	↓	↓	↓
-		SPACE	0	43	A		44	0	SPACE		-
-		SPACE	0	45		B	46	0	SPACE		-
-		SPACE	0	47		C	48	0	SPACE		-
-		SPACE	0	49	A		50	0	SPACE		-
-		SPACE	0	51		B	52	0	SPACE		-
-		SPACE	0	53		C	54	0	SPACE		-
-		SPACE	0	55	A		56	0	SPACE		-
-		SPACE	0	57		B	58	0	SPACE		-
-		SPACE	0	59		C	60	0	SPACE		-
-		SPACE	0	61	A		62	0	SPACE		-
-		SPACE	0	63		B	64	0	SPACE		-
-		SPACE	0	65		C	66	0	SPACE		-

Connected Load Per Phase: PH A: 43503 PH B: 43563 PH C: 43503

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	18291	22200	0	0	0	90078	130569	**157.1**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	18291	22200	0	0	0	90078	130569	**157.1**

PANEL PDP94D (NEW)

VOLTAGE: 480/277 3 PH 4W | AIC RATING: 35KAIC | REMARKS:
FEEDER AMP: 400 MAINS: 400 MLO | MOUNTING: SURFACE
LUGS: - FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
70/3		PANEL 'RP94F' VIA TX94F	3196	1	A		2	9422	PCWP-1		60/3
↓	↓	↓	5882	3		B	4	9422	↓	↓	↓
↓	↓	↓	3212	5		C	6	9422	↓	↓	↓
50/3		CHP-4	7482	7	A		8	3048	PHWP-1		20/3
↓	↓	↓	7482	9		B	10	3048	↓	↓	↓
↓	↓	↓	7482	11		C	12	3048	↓	↓	↓
40/3		HWP-1	5820	13	A		14	2106	PCWP-3		15/3
↓	↓	↓	5820	15		B	16	2106	↓	↓	↓
↓	↓	↓	5820	17		C	18	2106	↓	↓	↓
40/3		HWP-2	5820	19	A		20	2106	BP-1		15/3
↓	↓	↓	5820	21		B	22	2106	↓	↓	↓
↓	↓	↓	5820	23		C	24	2106	↓	↓	↓
20/1		SPARE	0	25	A		26	2106	BP-2		15/3
20/1		SPARE	0	27		B	28	2106	↓		↓
20/1		SPARE	0	29		C	30	2106	↓		↓
-		SPACE	0	31	A		32	0	SPARE		20/1
-		SPACE	0	33		B	34	0	SPARE		20/1
-		SPACE	0	35		C	36	0	SPARE		20/1
-		SPACE	0	37	A		38	0	SPACE		-
-		SPACE	0	39		B	40	0	SPACE		-
-		SPACE	0	41		C	42	0	SPACE		-

Connected Load Per Phase: PH A: 41106 PH B: 43792 PH C: 41122

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	884	2343	113730	1020	0	0	8043	126020	**151.6**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	1105	2343	113730	1020	0	0	8043	126241	**151.8**

PANEL 5C (EXISTING)

VOLTAGE: 208/120 3 PH 4W | AIC RATING: 10KAIC | REMARKS: SIEMENS - P1
FEEDER AMP: 225 MAINS: 225 MCB | MOUNTING: SURFACE
LUGS: - FEED: BOTTOM | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	V	EXISTING LOAD	500	1	A		2	1000	NEW CONVEYOR	E	20/1
20/1	E	SPARE	0	3		B	4	500	EXISTING LOAD	V	20/1
20/1	E	SPARE	0	5		C	6	500	EXISTING LOAD	V	20/1
20/1	E	SPARE	0	7	A		8	500	EXISTING LOAD	V	20/1
20/1	E	SPARE	0	9		B	10	500	EXISTING LOAD	V	20/1
20/1	E	SPARE	0	11		C	12	500	EXISTING LOAD	V	20/1
20/1	V	EXISTING LOAD	500	13	A		14	500	EXISTING LOAD	V	20/1
20/1	V	EXISTING LOAD	500	15		B	16	500	DATA HUB	E	20/1
20/1	V	EXISTING LOAD	500	17		C	18	500	LIGHT TESTIN	E	20/1
20/1	V	EXISTING LOAD	500	19	A		20	500	EXISTING LOAD	V	20/1
20/1	V	EXISTING LOAD	500	21		B	22	500	EXISTING LOAD	V	20/1
30/2	R, V	HP-19	1411	23		C	24	500	EXISTING LOAD	V	20/1
↓	↓	↓	1411	25	A		26	500	AH OUTLET	E	20/1
30/2	R, V	AHU-19	2246	27		B	28	500	EXISTING LOAD	V	20/1
↓	↓	↓	2246	29		C	30	500	EXISTING LOAD	V	20/1
30/3	R, V	AHU-20	1999	31	A		32	500	EXISTING LOAD	V	20/1
↓	↓	↓	1999	33		B	34	500	EXISTING LOAD	V	20/1
↓	↓	↓	1999	35		C	36	104	CP-4	N	15/2
30/3	V	EXISTING LOAD	1500	37	A		38	104	↓	↓	↓
↓	↓	↓	1500	39		B	40	104	CP-5	N	20/2
↓	↓	↓	1500	41		C	42	104	↓	↓	↓

Connected Load Per Phase: PH A: 10014 PH B: 9849 PH C: 10364

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	13311	416	500	0	0	16000	30227	**83.9**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	13311	416	500	0	0	16000	30227	**83.9**

PANEL #9 (DEMO)

VOLTAGE: 208/120 3 PH 4W | AIC RATING: 10KAIC | REMARKS:
FEEDER AMP: 40 MAINS: 60 MLO | MOUNTING: SURFACE | SQUARE D - QO
LUGS: - FEED: BOTTOM | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
-		SPACE	0	1	A		2	0	MAIN	DEMO	40/2
-		SPACE	0	3		B	4	0	↓	↓	↓
-		SPACE	0	5		C	6	0	SPACE		-
20/1	DEMO	AIR DRYER	0	7	A		8	0	SIEMENS	RELO	20/1
20/1	RELO	R. - 120V	0	9		B	10	0	WH	RELO	30/1
20/1	DEMO	STARTER	0	11		C	12	0	FIRE ALARM	RELO	20/1
-		SPACE	0	13	A		14	0	BATH LIGHTS	RELO	20/1
-		SPACE	0	15		B	16	0	BATH RECEPT	RELO	20/1
-		SPACE	0	17		C	18	0	EXISTING LOAD	RELO, V	20/2
-		SPACE	0	19	A		20	0	↓	↓	↓
-		SPACE	0	21		B	22	0	SPACE		-
-		SPACE	0	23		C	24	0	SPACE		-

Connected Load Per Phase: PH A: 0 PH B: 0 PH C: 0

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	0	0	0	0	0	0	0	**0.0**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	0	0	0	0	0	0	**0.0**

PANEL PDP94B (EXISTING)

VOLTAGE: 480/277 3 PH 4W | AIC RATING: 18KAIC | REMARKS:
FEEDER AMP: 400 MAINS: 600 MLO | MOUNTING: SURFACE | SQUARE D - I-LINE
LUGS: - FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
100/3	E	GUARDHOUSE POWER	7000	1	A		2	0	SPACE		-
↓	↓	↓	7000	3		B	4	0	SPACE		-
↓	↓	↓	7000	5		C	6	0	SPACE		-
-		SPACE	0	7	A		8	2000	EXISTING LOAD	V	15/1
-		SPACE	0	9		B	10	0	SPACE		-
-		SPACE	0	11		C	12	0	SPACE		-
50/3	E	PUNCH BREAK	5000	13	A		14	10014	PANEL '5C' VIA XFMR 'T-5C'	R	90/3
↓	↓	↓	5000	15		B	16	9849	↓	↓	↓
↓	↓	↓	5000	17		C	18	10364	↓	↓	↓
30/3	E	PUNCH	4000	19	A		20	2500	TESTER	E	20/3
↓	↓	↓	4000	21		B	22	2500	↓	↓	↓
↓	↓	↓	4000	23		C	24	2500	↓	↓	↓
20/3	E	BATTERY CHARGER	2500	25	A		26	2500	FRAMING	E	20/3
↓	↓	↓	2500	27		B	28	2500	↓	↓	↓
↓	↓	↓	2500	29		C	30	2500	↓	↓	↓
30/3	R, V	HP-20	3575	31	A		32	3000	FRAMING CONVEYOR	E	30/3
↓	↓	↓	3575	33		B	34	3000	↓	↓	↓
↓	↓	↓	3575	35		C	36	3000	↓	↓	↓
30/3	V	AH OFFICE	0	37	A		38	0	SPACE		-
↓	↓	↓	0	39		B	40	0	SPACE		-
↓	↓	↓	0	41		C	42	0	SPACE		-

Connected Load Per Phase: PH A: 42089 PH B: 39924 PH C: 40439

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	24036	416	500	0	0	97500	122452	**147.3**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	24036	416	500	0	0	97500	122452	**147.3**

PANEL RP94B (EXISTING)

VOLTAGE: 208/120 3 PH 4W | AIC RATING: 10KAIC | REMARKS:
FEEDER AMP: 100 MAINS: 100 MCB | MOUNTING: SURFACE | SQUARE D - NQOD
LUGS: FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	DOCK DOOR RECPT	300	1	A		2	1000	UH-9 THROUGH UH-11	R	20/1
20/1	E	DOCK DOOR RECPT	300	3		B	4	0	SPARE	E	20/1
20/1	E	DOCK DOOR RECPT	300	5		C	6	200	FLASHING LIGHT	E	20/1
20/1	E	DOCK DOOR RECPT	300	7	A		8	250	DOCK FAN & LIGHT	E	20/1
20/1	E	DOCK DOOR RECPT	300	9		B	10	250	DOCK FAN & LIGHT	E	20/1
20/1	E	DOCK DOOR RECPT	300	11		C	12	250	DOCK FAN & LIGHT	E	20/1
20/1	E	DOCK DOOR RECPT	300	13	A		14	250	DOCK FAN & LIGHT	E	20/1
20/1	E	DOCK DOOR RECPT	300	15		B	16	250	DOCK FAN & LIGHT	E	20/1
20/1	E	SPARE	0	17		C	18	250	DOCK FAN & LIGHT	E	20/1
20/1	E	TRAFFIC LIGHTS	250	19	A		20	250	DOCK FAN & LIGHT	E	20/1
20/1	E	CES CTRL CK	200	21		B	22	0	2 POLE 30 SPARE	E	30/2
20/1	E	TRAFFIC LIGHTS	250	23		C	24	0	↓	↓	↓
-		SPACE	0	25	A		26	0	SPACE		-
-		SPACE	0	27		B	28	0	SPACE		-
-		SPACE	0	29		C	30	0	SPACE		-

Connected Load Per Phase: PH A: 2900 PH B: 1600 PH C: 1550

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	2450	1000	0	2400	0	0	200	6050	**16.8**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	3063	1000	0	2400	0	0	200	6663	**18.5**

PANEL RP94E (EXISTING)

VOLTAGE: 208/120 3 PH 4W | AIC RATING: 10KAIC | REMARKS:
FEEDER AMP: 150 MAINS: 150 MCB | MOUNTING: SURFACE | SQUARE D - NQOD
LUGS: - FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	V	EXISTING LOAD	2540	1	A		2	500	EXISTING LOAD	V	20/1
20/1	V	EXISTING LOAD	1820	3		B	4	500	EXISTING LOAD	V	20/1
20/1	V	EXISTING LOAD	1820	5		C	6	500	EXISTING LOAD	V	20/1
30/2	V	EXISTING LOAD	500	7	A		8	500	EXISTING LOAD	V	20/1
↓	↓	↓	500	9		B	10	500	EXISTING LOAD	V	20/1
30/2	V	EXISTING LOAD	500	11		C	12	500	SERVICE REC	E	20/1
20/1	V	EXISTING LOAD	500	13	A		14	500	EXISTING LOAD	V	20/1
20/1	E	DOOR LOCK	200	15		B	16	500	EXISTING LOAD	V	20/1
20/1	V	EXISTING LOAD	500	17		C	18	500	EXISTING LOAD	V	20/1
20/1	V	EXISTING LOAD	500	19	A		20	500	EXISTING LOAD	V	20/1
20/1	V	EXISTING LOAD	500	21		B	22	500	PHONE ROOM	E	20/1
20/1	E	RADIOS	300	23		C	24	500	PHONE ROOM	E	20/1
60/3	R, V	AHU-18	1999	25	A		26	2042	HP-18	R, V	60/3
↓	↓	↓	1999	27		B	28	2042	↓	↓	↓
↓	↓	↓	1999	29		C	30	2042	↓	↓	↓
-		SPACE	0	31	A		32	0	SPACE		-
-		SPACE	0	33		B	34	0	SPACE		-
-		SPACE	0	35		C	36	0	SPACE		-
-		SPACE	0	37	A		38	0	SPACE		-
-		SPACE	0	39		B	40	0	SPACE		-
-		SPACE	0	41		C	42	500	EXISTING LOAD	V	20/1

Connected Load Per Phase: PH A: 10081 PH B: 9061 PH C: 9661

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	4680	12123	0	1500	0	0	10500	28803	**80.0**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	5850	12123	0	1500	0	0	10500	29973	**83.2**

PANEL RP94F (NEW)

VOLTAGE: 208/120 3 PH 4W | AIC RATING: 10KAIC | REMARKS:
FEEDER AMP: 150 MAINS: 150 MCB | MOUNTING: SURFACE
LUGS: - FEED: TOP | ENCLOSURE: NEMA 1

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1		SPARE	0	1	A		2	0	SPARE		20/1
20/1		SPARE	0	3		B	4	0	SPARE		20/1
20/1		SPARE	0	5		C	6	0	SPARE		20/1
20/1		SPARE	0	7	A		8	300	SIEMENS	RC	20/1
20/1	RC	R. - IT RACK	300	9		B	10	3000	WH	RC	30/1
20/1		SPARE	300	11		C	12	300	FIRE ALARM	RC, LO	20/1
20/1		L. - BOILER ROOM	284	13	A		14	300	BATH LIGHTS	RC	20/1
20/1		R. - BOILER ROOM	720	15		B	16	300	BATH RECEPT	RC	20/1
20/1	LO	EM-STOP CONTROLS	200	17		C	18	750	EXISTING LOAD	RC, V	20/2
15/3	ST, LF	BOILER B-1	781	19	A		20	750	↓	↓	↓
↓	↓	↓	781	21		B	22	0	GAS SOLENOID VALVES	ST	20/1
↓	↓	↓	781	23		C	24	100	↓ SHUNT TRIP	↓	↓
↓	↓	↓ SHUNT TRIP	0	25	A		26	0	BOILER B-2	ST, LF	15/3
-		SPACE	0	27		B	28	781	↓	↓	↓
-		SPACE	0	29		C	30	781	↓	↓	↓
-		SPACE	0	31	A		32	781	↓ SHUNT TRIP	↓	↓
-		SPACE	0	33		B	34	0	SPACE		-
-		SPACE	0	35		C	36	0	SPACE		-
-		SPACE	0	37	A		38	0	SPACE		-
-		SPACE	0	39		B	40	0	SPACE		-
-		SPACE	0	41		C	42	0	SPACE		-

Connected Load Per Phase: PH A: 3196 PH B: 5882 PH C: 3212

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	884	2343	0	1020	0	0	8043	12290	**34.1**
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	1105	2343	0	1020	0	0	8043	12511	**34.7**

PANEL SCHEDULE GENERAL NOTES:

A. EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR FIELD OBSERVATION. FIELD VERIFY ALL CIRCUITS.

B. VERIFY CIRCUITS OF EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. TURN SPARE BREAKERS OFF.

C. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN THESE DRAWINGS.

D. REUSE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED, TYPE, VOLTAGE RATING, AND AIC RATING TO MATCH EXISTING.

E. PANEL SCHEDULES REFLECT STATUS AFTER PROPOSED WORK IS COMPLETE.

PANEL NOTES:

DEMO - EXISTING CIRCUIT TO BE DEMOLISHED

E - EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN

LF - PROVIDE PADLOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT OF CIRCUIT BREAKER

LO - PROVIDE HANDLE CLAMP (LOCK-ON) FOR CIRCUIT BREAKER

N - PROVIDE NEW CIRCUIT BREAKER, TYPE, VOLTAGE, AND AIC RATING TO MATCH EXISTING

R - REUSE EXISTING BREAKER IN EXISTING PANEL FOR NEW LOAD OR DESCRIPTION INDICATED

RC - RECONNECT EXISTING CIRCUIT TO THIS LOCATION

RELO - RELOCATE THIS EXISTING CIRCUIT TO NEW SOURCE

ST - SHUNT-TRIP CIRCUIT BREAKER

V - VERIFY EXISTING LOAD PRIOR TO WORK AND PROVIDE DESCRIPTION IN NEW PANEL DIRECTORY.

(BAR GRAPHIC IS 4" AT FULL SCALE) 0" 1" 2" 3" 4"

SOUTH CAROLINA LICENSED DEVITA & ASSOCIATES, INC. No. C00415 CERTIFICATE OF AUTHORIZATION
NORTH CAROLINA LICENSED ENGINEERING FIRM NO. 22785 1-19-2026
SEALS

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CONSULTANT

PROJECT INFORMATION:

SPARTANBURG Community College

TYGER RIVER CAMPUS HVAC AND BOILER REPLACEMENTS

1875 EAST MAIN ST.,
DUNCAN, SC 29334

State Project No. H59-6315-JM
DEVITA Project No. 25531
Issue Date: 12 JANUARY 2026

REVISIONS

NO.	DATE	DESCRIPTION
A	12/10/25	OSE SUBMISSION
B	01/12/26	OSE REVIEW COMMENTS
C	01/19/26	OSE REVIEW COMMENTS

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DRAWING NAME
ELECTRICAL PANEL SCHEDULES - AREA 94

DRAWING NO.
E413

Drawn By: DK Checked By: SLE