Renovations to:

Powers Building - A Wing

131 Community College Drive
Spartanburg, S.C

CONSTRUCTION DOCUMENTS

2023 Edition

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.
V. The South Carolina Modular Buildings Construction Act.

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CONSULTANT

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/26	OSE COMMENTS

ISSUE:	SCHEMATIC
DATE:	5/1/26
PROJECT NO:	26010
DRAWN BY:	DLD
CHECKED BY:	DLD

COVER SHEET

CVR

F E D C B A

7 6 5 4 3 2 1

PROJECT ABBREVIATIONS LEGEND

AB	ANCHOR BOLT
A/C, AC	AIR CONDITION(ING)(ED)
ACS	ACCESS
ACST	ACOUSTIC(AL)
ACP (ACP-)	ACOUSTICAL CEILING PANEL
ACT (ACT-)	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADH	ADHESIVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
ANCR	ANCHOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM (ALUM-)	ALUMINUM
ANOD	ANODIZE(D)
ANN	ANNUNCIATOR
APPX	APPROXIMATE
ARCH	ARCHITECT(URAL),
ASPH	ASPHALT
AUTO	AUTOMATIC
AWP (AWP-)	ACOUSTICAL WALL PANEL
B/B	BACK TO BACK
BB (BB-)	BULLETIN BOARD
BBD	BASE BOARD
BD	BOARD
BCS	BABY CHANGING STATION
BE (BE-)	BENCH
BIT, BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BMK	BENCHMARK
BOT	BOTTOM
BOT/	BOTTOM OF
BR (BR-)	BRICK
BRG	BEARING
BRZ	BRONZE
BSMT	BASEMENT
BUR	BUILT-UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CG (CG-)	CORNER GUARD
CH (CH-)	COAT HOOK
CI	CAST IRON
CIP	CAST-IN-PLACE
CIRC	CIRCULATION
CJ	CONTROL JOINT
CL, ℄	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
cm	CENTIMETER
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT (CPT-)	CARPET
CSK	COUNTERSUNK
CT (CT-)	CERAMIC TILE
CTR	CENTER
CU	CUBIC
CW	COLD WATER
CWT	CERAMIC WALL TILE
CCTV	CLOSED CIRCUIT TELEVISION
d	PENNY (NAIL)
D	DEEP, DEPTH
DBL	DOUBLE
DEG, °	DEGREE
DEMO	DEMOLISH, DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF (DF-)	DRINKING FOUNTAIN
DIA, ø	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DP	DAMPPROOFING
DR	DOOR
DS	DOWNSPOUT
DW	DISHWATER
DWG	DRAWING
DWV	DRAINAGE, WASTE AND VENT
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EO	ELECTRIC OUTLET
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
ETC	ETCETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATION, EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXPO	EXPOSED
EXT	EXTERIOR, EXTERNAL
F	FACE OF
F/F	FACE TO FACE
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAB (FAB-)	FABRIC
FABR	FABRICATE(D)
FACP	FIRE ALARM CONTROL PANEL
FC (FC-)	FIRE CABINET
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISH FLOOR ELEVATION
FF&E	FURNISHING FIXTURES AND EQUIPMENT
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FHR	FIRE HOSE RACK
FIN	FINISH(ED)
FIN FLR EL	FINISHED FLOOR ELEVATION
FIXT	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FINISHED OPENING
FP	FIRE PROTECTION
FRTW	FIRE RETARDANT TREATED WOOD
FT	FOOT (FEET)
FTG	FOOTING
FTR	FINNED TUBE RADIATION
FURN	FURNISH, FURNITURE
FURR	FURRING
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZED
GB (GB-)	GRAB BAR
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL (GL-)	GLASS
GD	GROUND
GL BLK	GLASS BLOCK
GLU LAM	GLUE LAMINATED WOOD
GYP PLAS	GYPSUM PLASTER
GR	GRADE
GSF	GROSS SQUARE FEET
GT	GREASE TRAP
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HCP	HANDICAPPED
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HYD	HYDRANT
INCL	INCLUDE(D), INCLUDING
INSUL (INSUL-)	INSULATION
INT	INTERIOR
INTERM	INTERMEDIATE
INV	INVERT
JAN	JANITOR
JAN CLO	JANITOR'S CLOSET
JT	JOINT
KD	KNOCK(ED) DOWN
KO	KNOCK OUT
KIT	KITCHEN
KPL (KPL-)	KICK PLATE
L	LONG, LENGTH
LAM	LAMINATE(D)
LNDRY	LAUNDRY
LAV	LAVATORY
LB(s)	POUND(S)
LF	LINEAR FOOT, (FEET)
LH	LEFT HAND
LL	LIVE LOAD
LKR (LKR-)	LOCKER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNG	LONGITUDE, LONGITUDINAL
LP	LOW POINT
LT	LIGHT
LTG	LIGHTING
LVL	LEVEL
LVT	LUXURY VINYL TILE
LWC	LIGHT WEIGHT CONCRETE
m	METER
MB (MB-)	MARKER BOARD
MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MCB	METAL CORNER BEAD
MDO	MEDIUM DENSITY OVERLAY
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIRR (M-)	MIRROR
MISC	MISCELLANEOUS
mm	MILLIMETER
MO	MASONRY OPENING
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
MVBL	MOVABLE
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NSF	NET SQUARE FEET
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED, OWNER INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OH	OVERHEAD
OP (OP-)	OVERHEAD PROJECTOR
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PA	PUBLIC ADDRESS
PBD	PARTICLE BOARD
PCC (PCC-)	PRE-CAST CONCRETE
PERF	PERFORATED
PERP	PERPENDICULAR
PGBD	PEG BOARD
PL	PLATE
PLAM (PLAM-)	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PNT (P-)	PAINT
PNL	PANEL
POL	POLISHED
PR	PAIR
PREFAB	PREFABRICATE(D)
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PS (PS-)	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSH (PSH-)	PURSE SHELF
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTD (PTD-)	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
QT (QT-)	QUARRY TILE
QTY	QUANTITY
r	RISER
R	THERMAL RESISTANCE
RAD	RADIUS
RB (RB-)	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RCPTN	RECEPTION
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCE, REINFORCING
REINF CONC	REINFORCED CONCRETE
REQD	REQUIRED
RESIL	RESILIENT
REV	REVISION
RFG	ROOFING
RF (RF-)	RESILIENT FLOORING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTF (RTF-)	RUBBER TILE FLOOR
RVL	REVEAL
S	SOUTH
SAB	SOUND ATTENUATION BATTS
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SCW	SOLID CORE WOOD
SD (SD-)	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FOOT(FEET)
SGNG	SIGNAGE
SGL	SINGLE
SHT	SHEET
SIM	SIMILAR
SHR	SHOWER
SND (SND-)	SANITARY NAPKIN DISPOSAL UNIT
SP	STANDPIPE
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS (SS-)	SOLID SURFACE
SSTL	STAINLESS STEEL
ST (ST-)	STAIN
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STN (STN-)	STONE
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV (SV-)	SHEET VINYL
SYMM	SYMMETRICAL
T	TREAD
T/	TOP OF
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TB (TB-)	TACK BOARD
TEL	TELEPHONE
TEMP	TEMPORARY
TERR (TERR-)	TERRAZZO
THK	THICK
THRES	THRESHOLD
TI	TENANT IMPROVEMENT
TLT	TOILET
TMPD	TEMPERED
TOPO	TOPOGRAPHY, TOPOGRAPHIC
TRTD	TREATED
TS	TUBE STEEL
TSCD (TSCD-)	TOILET SEAT COVER DISPENSER
TTD (TTD-)	TOILET TISSUE DISPENSER
TV	TELEVISION
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UC	UNDER COUNTER
UCL (UCL-)	UNDER CABINET LIGHTING
UNEXC	UNEXCAVATED
UNFIN	UNFINISHED
UGND	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
US	UNDERSLAB
UTIL	UTILITY
VB (VB-)	VINYL BASE
VCT (VCT-)	VINYL COMPOSITION TILE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VNR (VNR-)	VENEER
VR	VAPOR RETARDER
V SHT	VINYL SHEET
VT (VT-)	VINYL TILE
VWC (VWC-)	VINYL WALL COVERING
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD (WD-)	WOOD
WG (WG-)	WALL GUARD
WF	WIDE FLANGE
WH	WATER HEATER
WI	WROUGHT IRON
WIN	WINDOW
WM	WIRE MESH
WP	WATER PROOFING
W RECPT	WASTE RECEPTACLE
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
x	BY
YD	YARD
ZN	ZINC

SYMBOLS LEGEND

SHEET NUMBER

A213
- SHEET NUMBER
- CATEGORY NUMBER
- DISCIPLINE LETTER

ROOM NAMES AND NUMBERS

Room name — ROOM NAME
101 — ROOM NUMBER

NORTH ARROW

N — TRUE NORTH

VERTICAL ELEVATION TARGET

SECOND FLOOR
F.F.E. 28'-6"

SPOT ELEVATION

SECOND FLOOR
E.L. 18'-6"

DRAWING TITLE

1 / A101 View Name
1/8" = 1'-0"

BREAK LINE

DATUM POINT

KEY NOTE

SEE KEYNOTE LEGEND FOR KEY

SECTION TARGETS

- SECTION DESIGNATION
- SIMILAR DETAIL WHERE INDICATED
- SIM 1 / A101
- SHEET NUMBER

ELEVATION TARGETS

- SECTION DESIGNATION
- SIMILAR DETAIL WHERE INDICATED
- SIM 1 / A101
- SHEET NUMBER

DOOR NUMBERS

101

WINDOW TYPE SYMBOLS

W1

DRAWING REVISION

1

PARTIAL PLAN AND DETAIL TARGETS

SIM 1 / A101

CEILING HEIGHT/TYPE TAG

10'-10 3/4" XX-XX

COLUMN GRID

0

CENTER LINE

℄

FLOOR PLAN LEGEND

0	COLUMN GRID
N (TRUE NORTH)	NORTH ARROW
Room name 101	ROOM TAG
SIM 1 / A101	SECTION / ELEVATION CALLOUT
Name Elevation	ELEVATION TARGET
W1	WINDOW TAG
℄	CENTER LINE
101	NEW DOOR WITH DOOR TAG
	EXISTING DOOR
FEB FEC(X) TYPE	FIRE EXTINGUISHER CABINET FEC(R) RECESSED FEC(S) SEMI RECESSED FEC(F) FLUSH MOUNTED FEB BRACKET MOUNTED
FD	FLOOR DRAIN
EWC	ELECTRIC WATER COOLER

WALL TYPES LEGEND

INTERIOR

- FACING
- WALL STRUCTURE
- STRUCTURE WIDTH
- FACING
- XXXX / XX
- MODIFIER
- MODIFIER

EXTERIOR

- WALL TYPE
- EX / XX
- MODIFIER
- MODIFIER

FACING:
- F Furring - 7/8" METAL HAT CHANNEL W/ 5/8" GWB
- G Gypsum - 5/8" GWB

STRUCTURE:
- C Concrete
- M Masonry
- S Metal Stud
- SW Shaft Wall
- TP Toilet Partition
- W Wood Stud

WALL MODIFIER:
- A Abuse resistant GWB
- F Full height - extend to structure above
- P Partial height - extend six inches above ceiling
- S Sound - attenuation batt insulation

WALL LEGEND

- EXISTING WALL
- CONCRETE
- CONCRETE MASONRY
- METAL STUD WALL WITH GYPSUM WALL BOARD
- 1 HOUR RATED
- 2 HOUR RATED
- 3 HOUR RATED

WALL LEGEND NOTES:

1. INTERIOR WALLS SHALL BE TYPE ______ UNLESS NOTED OTHERWISE.
2. PROVIDE J-MOLD WITH CAULK AND BACKER ROD JOINT WHERE GWB ABUTS DISSIMILAR MATERIALS SUCH AS CMU AND GWB.
3. OUTSIDE CORNER OF CMU WALLS SHALL BE BULLNOSED UNLESS NOTED OTHERWISE. FIRST COURSE AND COURSE AT CEILING TO BE SQUARE EDGE CMU.

TOILET ACCESSORY LEGEND

PTD	PAPER TOWEL DISPENSER
TTD	TOILET TISSUE DISPENSER
GB42	42" GRAB BAR
GB36	36" GRAB BAR
GB18	18" GRAB BAR (VERTICAL MOUNT)
SGB	SHOWER GRAB BAR
M1	24" x 36" MIRROR
M2	24" x 48" MIRROR
CH	COAT HOOK
MOP	MOP RACK
SND	SANITARY NAPKIN DISPOSAL UNIT
SD	SOAP DISPENSER
EHD	ELECTRIC HAND DRYER
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
CU	CURTAIN WITH BAR AND CURTAIN HOOKS

TC CESSORY NOTES

1. GC SHALL FURNISH AND INSTALL 2x4 WOOD BLOCKING AS REQUIRED TO SECURELY FASTEN ALL TOILET ACCESSORIES.

TOILET NOTES

1. OUTSIDE CORNER OF CMU WALLS SHALL BE BULLNOSED UNLESS NOTED OTHERWISE. REFER TO WALL LEGEND FOR ADDITIONAL INFORMATION.

ROOF PLAN LEGEND

RD	ROOF DRAIN AND DRAIN SUMP
DS	DOWN SPOUT
OS	OVERFLOW SCUPPER
SLOPE 1/4" /FOOT	ROOF SLOPE

GENERAL ROOF NOTES

1. Unless otherwise noted, all roof slopes shall be 1/4" rise per foot.
2. Typical roofing shall be a ___ roofing system. See roof details for additional information.
3. Provide all tapered insulation, crickets, curbs, and accessories required for positive roof drainage.
4. Roof slopes shown indicate the final roof slope. roof structure slopes where indicated on structural drawings to reduce quantity of tapered insulation.
5. Provide splash box for roof top equipment condensate drains.
6. Contractor shall coordinate with mechanical and roofing contractor on the required height of all roof top equipment curbs and the height of the roofing insulation prior to installation of any work.

DEMOLITION LEGEND

WALL TYPES:
- EXISTING WALLS TO REMAIN
- WALLS TO BE DEMOLISHED

DOOR TYPES:
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED

REFLECTED CEILING PLAN LEGEND

- ACP-1: 2'x4' SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
- ACP-2: 2'x2' SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
- SUSPENDED GYPSUM BOARD CEILING
- PROJECTION SCREEN
- 2 x 4 LIGHT FIXTURE
- 2 x 2 LIGHT FIXTURE
- 1 x 4 LIGHT FIXTURE
- LINEAR PENDANT LIGHT FIXTURE
- STRIP LIGHT FIXTURE
- TRACK LIGHT FIXTURE(S)
- PENDANT LIGHT FIXTURE
- DOWN LIGHT
- EXIT SIGN
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- CEILING ACCESS PANEL
- OVERHEAD PROJECTOR (NIC)
- (10'-10 3/4" XX-XX) CEILING ELEVATION ABOVE FINISHED FLOOR / MATERIAL

CASEWORK LEGEND

X - 36 - 24 - 18
- DEPTH (INCHES)
- HEIGHT (INCHES)
- WIDTH (INCHES)
- MILLWORK TYPE

MILLWORK TYPE:

B	BASE CABINET
BS	BASE SHELF
C	CUBBIE
W	WALL CABINET
WD	WARDROBE
WS	WALL SHELF

NOTES:

1. SECTIONS AND DETAILS IN ACCORDANCE WITH A.W.I. STANDARDS. SEE SPECIFICATIONS FOR QUALITY GRADE.
2. SEE ELEVATIONS FOR SHELVING AND DOOR CONFIGURATIONS.

ACCESSORY LEGEND

MB1	4' x 6' MARKER BOARD
MB2	4' x 8' MARKER BOARD
TB1	4' X 6' TACK BOARD
PB1	4'-1" x 5'-7" PROMETHEAN BOARD
PS1	5' WIDE PROJECTION SCREEN
PS2	8' WIDE PROJECTION SCREEN
OP1	OVERHEAD PROJECTOR
M1	24" x 36" MIRROR
M2	24" x 48" MIRROR
CH	COAT HOOK

PROJECT NOTES

CIRCULATION

CI-1. SEAL ALL STAIR STRINGERS AND LANDINGS TO THE WALL WHERE A TIGHT UNIFORM FIT HAS NOT BEEN FURNISHED AT THE WALL AND STAIR STRINGER CONDITION.

COORDINATION

CO-1. EXISTING CONSTRUCTION AND FINISHES WHERE CUT OR DAMAGED BY OTHER PORTIONS OF THE WORK SHALL BE REPAIRED BY TRADESPEOPLE WHO ARE BY TRAINING AND EXPERIENCE QUALIFIED TO MAKE SUCH REPAIRS.

CO-2. PROVIDE WOOD BLOCKING IN STUD OR OTHER HOLLOW WALLS AND OR SHEET METAL PLATES FOR ATTACHMENT OF WALL MOUNTED ACCESSORIES SUCH AS SHELVING, CASEWORK, GRAB BARS, TOILET ACCESSORIES, TOILET PARTITIONS, WALL MOUNTED LIGHT FIXTURES, BENCHES, COAT RODS, TELEVISIONS AND AV EQUIPMENT, SECURITY CAMERAS, SLIDING DOOR TRACKS, MARKER BOARDS, MIRRORS, ETC. WOOD BLOCKING SHALL BE FIRE RATED WHERE REQUIRED BY CODE OR THE CODE OFFICIAL.

CO-3. ALL WALL MOUNTED DEVICES SUCH AS ELECTRICAL RECEPTACLE PLATES, ELECTRICAL SWITCH PLATES, THERMOSTATS, LIGHT FIXTURES, DATA PLATES, SIGNAGE, FIRE ALARM PULL STATIONS, FIRE ALARM HORNS AND STROBES, MOTION DETECTORS, ETC. SHALL BE MOUNTED LEVEL AND PLUMB. WHERE DEVICES ARE ADJACENT TO ONE ANOTHER SUCH AS LIGHT SWITCHES, RECEPTACLES, T-STATS, ETC. THE TOP OF THE DEVICE SHALL ALIGN WITH THE ADJACENT DEVICE.

CO-4. INFORMATION PERTINENT TO THE SCOPE OF WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC., FOR ADDITIONAL NOTES. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. NOTES ON ANY ONE SHEET ARE TO BE APPLIED TO RELATED DRAWINGS AND DETAILS.

CO-5. THE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL DRAWINGS, ETC., SUPPORT THE ARCHITECTURAL DRAWINGS IN DEFINING THE SCOPE OF WORK OF THE CONTRACT DOCUMENTS. DISCREPANCY BETWEEN THE ARCHITECTURAL AND THE ENGINEERING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE COMMENCING WITH THE WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.

CO-6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF THE BUILDINGS ON THE SITE.

CO-7. DO NOT SCALE THE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK.

CO-8. THE CONTRACTOR SHALL VISIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREON. HE SHALL INVESTIGATE, VERIFY AND BE FAMILIAR WITH CONDITIONS OF THE PROJECT. HE SHALL NOTIFY THE OWNER OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE WORK.

CO-9. PROVIDE SHOP DRAWINGS AND COORDINATION DRAWINGS TO GUIDE THE FIELD INSTALLATION OF ALL SYSTEMS. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL NOT USE THESE DIAGRAMMATIC CONTRACT DOCUMENTS AS THEIR SHOP AND COORDINATION DRAWINGS.

CO-10. IT IS THE DESIGN INTENT THAT ALL DEVICES MOUNTED ON WALLS SUCH AS LIGHT SWITCHES, ELECTRICAL RECEPTACLES, THERMOSTATS, TEMPERATURE SENSORS, SECURITY CARD READERS, MOTION DETECTORS, OCCUPANCY SENSORS, FIRE ALARM DEVICES, DIMMING CONTROLS, ETC. SHALL BE FURNISHED IN THE SAME COLOR. THE COLOR OF THESE DEVICES FOR THIS PROJECT SHALL BE COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE THIS REQUIREMENT WITH ALL TRADES.

CO-11. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFICS DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CO-12. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE CODES. ENGINEERING SHALL CONFORM TO ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION INCLUDING ACCESSIBILITY STANDARDS AND ADA REQUIREMENTS.

DIMENSIONING

D-1. UNLESS OTHERWISE NOTED, DIMENSIONS ARE FROM COLUMN CENTERLINE, CENTER OF INTERIOR STUD, FACE OF EXTERIOR STUD, FACE OF MASONRY AND FACE OF CONCRETE WALLS.

D-2. ALL NEW WORK ADJOINING EXISTING CONSTRUCTION SHALL ALIGN WITH AND MATCH EXISTING CONSTRUCTION UNLESS OTHERWISE DIMENSIONED OR DETAILED. NEW GYPSUM BOARD CONSTRUCTION MEETING EXISTING CONSTRUCTION IN THE SAME PLANE SHALL BE FLUSH WITH THE EXISTING MATERIALS AND SHOW NO VISIBLE JOINT.

D-3. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE, UNLESS NOTED OTHERWISE.

ENVELOPE

E-1. ALL EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND THE ROOF, BETWEEN WALL PANELS, AT PENETRATIONS OF UTILITIES THROUGH THE ENVELOPE, SHALL BE SEALED OR WEATHER-STRIPPED TO PREVENT AIR LEAKAGE / INFILTRATION.

E-2. WHETHER OR NOT SHOWN OR SPECIFIED, PROVIDE FOIL FACED MINERAL FIBER OR PLASTIC INSULATION BETWEEN ALL EXTERIOR AND INTERIOR HEATED SPACES INCLUDING INACTIVE PORTIONS OF LOUVERS, ETC. PLASTIC INSULATION SHALL BE ENCLOSED TO PREVENT TOXIC SMOKE DEVELOPMENT.

E-3. PROVIDE PHYSICAL METAL SUPPORT FOR FLEXIBLE FLASHING TO MAINTAIN POSITIVE DRAINAGE IN CAVITY WALLS OR ACROSS OTHER VOIDS.

E-4. FORM END DAMS IN FLASHING AT WINDOW & DOOR HEADS AND OTHER LOCATIONS AS REQUIRED TO DIRECT THE FLOW OF WATER TO THE EXTERIOR.

E-5. DO NOT SEAL WEEPS OR FLASHING TERMINATIONS TO THE EXTERIOR.

FINISHES

F-1. ENSURE THAT WALL FINISH MATERIALS SUCH AS PAINT ARE COMPATIBLE WITH SEALANT MATERIAL UTILIZED IN THE WALL CONSTRUCTION.

F-2. PROVIDE ACCESS PANELS IN CEILINGS WHERE REQUIRED FOR ACCESS TO ALL EQUIPMENT AND OR DEVICES. COORDINATE THIS REQUIREMENT WITH THE WORK OF OTHER TRADES SHOWN ON THE DRAWINGS AND IN THE PROJECT MANUAL.

F-3. IN AREAS INDICATED BY THE FINISH SCHEDULE TO BE PAINTED AND WHERE NO CEILING IS INDICATED, PAINT SHALL EXTEND TO THE BOTTOM OF THE FLOOR OR ROOF STRUCTURE (TYPICAL). REFER TO THE FINISH SCHEDULE FOR PAINTING OF EXPOSED STRUCTURE.

GLAZING

G-1. WHETHER OR NOT EXPLICITLY INDICATED, ALL GLAZING SHALL BE SAFETY GLAZING WHEN WITHIN 18 ' OF THE FLOOR OR WITHIN 36' HORIZONTAL DISTANCE FROM ANY DOOR.

G-2. PROVIDE HEAT STRENGTHENED AND OR TEMPERED GLASS AS RECOMMENDED BY GLASS MANUFACTURER OR AS REQUIRED BY CODE FOR EACH APPLICATION.

MISCELLANEOUS

M-1. PROVIDE BUILDING ADDRESS NUMBERS FOR THE BUILDING IN THE SCOPE OF WORK. SIGNAGE SPECIFICATION AND LOCATION OF BUILDING ADDRESS NUMBERS SHALL BE COORDINATED WITH THE ARCHITECT.

M-2. THE UNSUPPORTED ARM-OVER LENGTH TO A SPRINKLER HEAD DROP, OR SPRIG-UP SHALL NOT EXCEED 24 ' FOR STEEL PIPE.

M-3. SHOULD THE CONTRACTOR ENCOUNTER ANY MATERIALS IDENTIFIED AS HAZARDOUS MATERIALS HE SHALL IMMEDIATELY REFER TO THE GENERAL CONDITIONS AND NOTIFY THE OWNER AND THE ARCHITECT.

M-4. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID MOLECULAR BREAKDOWN.

STRUCTURAL

S-1. SEE STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBER SIZE & SEISMIC BRACING REQUIREMENTS.

S-2. THE CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.

S-3. REFER TO THE STRUCTURAL DRAWINGS FOR LIGHT GAGE FRAMING REQUIREMENTS FOR ALL EXTERIOR WALL FRAMING CONDITIONS DETAILS SHALL GOVERN IF A CONFLICT SHOULD OCCUR BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS IN REGARDS TO EXTERIOR WALL FRAMING.

S-4. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBER SIZES.

WALLS

W-1. ALL CMU WALLS AND SOUND RATED PARTITIONS SHALL EXTEND FROM FINISH FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK AND SHALL BE ENTIRETY SEALED OFF WITH NON-HARDENING CAULK UNLESS NOTED OTHERWISE. ALL PENETRATIONS; SUCH AS PIPING, CONDUITS, DUCTS, ETC., IN SUCH SEALED OFF WALLS OR PARTITIONS; SHALL IN THEMSELVES BE PACKED WITH MINERAL WOOL FIBER INSULATION AND SEALED OFF WITH NON-HARDENING CAULK ALONG THE PERIMETER AS REQUIRED. ENSURE THAT THESE PENETRATIONS ARE SEALED WITH APPROVED MATERIALS IN ACCORDANCE WITH A UL DESIGN ASSEMBLY FOR THE WALL RATING.

W-2. ALL SOUND RATED PARTITIONS (STC) WALLS OR PARTITIONS SHALL HAVE AN ACOUSTICAL GASKET AND OR ACOUSTICAL SEALANT AT THE TOP, BOTTOM AND SIDES WHERE A SOUND LEAK COULD EXIST. ALL PENETRATIONS THROUGH SUCH PARTITIONS SHALL BE GASKETED AND SEALED ALONG THE PENETRATION PERIMETER.

W-3. ALL FIRE AND OR SMOKE PARTITIONS, FIRE BARRIERS AND FIRE WALLS SHALL EXTEND FROM FINISH FLOOR TO WHERE IT MAY BE SEALED, SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK AND BE ENTIRELY SEALED OFF WITH FIRE SAFING MATERIALS PER AN APPROVED FIRE RATED ASSEMBLY IN ACCORDANCE WITH UL DESIGN. ALL RATED AND SMOKE WALLS SHALL BE LABELED EVERY 10'-0 ' WITH 3' HIGH STENCILED LETTERING WITH WORDING SUCH AS '2-HOUR RATED FIRE BARRIER', PROTECT ALL OPENINGS' OR VERBIAGE APPROVED BY THE LOCAL BUILDING OFFICIAL OR FIRE MARSHAL. LETTERING AND ARROWS MAY ALSO BE UTILIZED TO INDICATE THE DIRECTION OF THE FIRE RATING.

W-4. METAL STUDS SHALL BE ATTACHED WITH TWO SCREWS AT 16 ' OC IN THE BOTTOM AND TOP TRACKS UNLESS DEFLECTION TRACKS ARE UTILIZED UNLESS NOTED OTHERWISE.

W-5. ALL INTERIOR WALLS ARE TO BE 3 5/8' METAL STUDS WITH ONE LAYER OF 5/8' GYPSUM WALLBOARD UNLESS NOTED OTHERWISE BY A WALL TYPE.

W-6. IN THE CASE OF NON-RATED PARTITIONS METAL STUDS AND GYPSUM BOARD SHALL BE EXTENDED THE SAME AS RATED PARTITIONS UNLESS NOTED OTHERWISE BY A WALL TYPE OR NOTE. IN LOCATIONS WHERE GYPSUM BOARD WALLS ARE NOT INDICATED TO EXTEND TO STRUCTURE, GYPSUM BOARD SHALL EXTEND TO 6' ABOVE FINISH CEILING.

W-7. IN ALL LOCATIONS WHERE CEILINGS ARE NOT SCHEDULED ON ONE SIDE OR BOTH SIDES OF A WALL, THE PARTITION SHALL EXTEND UP TO THE UNDERSIDE OF THE STRUCTURE.

W-8. WALL ACCESSORIES SUCH AS FIRE EXTINGUISHER CABINETS, PAPER TOWEL DISPENSERS, ETC. INSTALLED IN RATED WALLS SHALL BE INSTALLED IN A MANNER WHICH WILL NOT REDUCE THE FIRE RATING OF THE WALL.

W-9. ALL PENETRATIONS THROUGH FLOOR SLABS SUCH AS PIPING, CONDUITS, ETC. SHALL BE SEALED WITH COMPATIBLE MATERIALS AND SHALL SEAL AGAINST WATER PENETRATION RATED MATERIALS TO BE USED AT RATED ASSEMBLIES TO MAINTAIN SPECIFIED RATING.

W-10. ALL OUTSIDE CORNERS AND END OF GYPSUM WALL PARTITIONS SHALL HAVE METAL CORNER BEADS OR METAL TRIM UNLESS NOTED OTHERWISE.

W-11. EXPOSED CONCRETE WALLS SHALL BE POINTED UP, RUBBED AND PATCHED AS REQUIRED, PRIOR TO THE APPLICATION OF PRIME PAINTING IN ALL LOCATIONS. POINTING UP MATERIALS SHALL BE THE SAME TYPE OF MATERIAL AS THE WALL CONSTRUCTION.

W-12. UNLESS NOTED OTHERWISE, ALL DOOR AND CASED OPENING FRAMES TO BE MOUNTED 6 ' OFF OF ADJACENT WALL AT DRYWALL PARTITIONS AND 8 ' OFF OF ADJACENT WALL AT MASONRY PARTITIONS OR CENTERED ON WALL. STRIKE SIDE OF DOOR MUST MEET ADA REQUIREMENTS IN ALL LOCATIONS.

W-13. PROVIDE "TYPE X" GYPSUM WALLBOARD AT RATED PARTITIONS, UNLESS NOTED OTHERWISE.

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STATE OF SOUTH CAROLINA — DAVID L. DIXON Greenville, SC 3944 5/1/26 — REGISTERED ARCHITECT

CONSULTANT

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

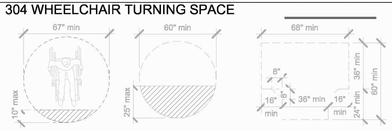
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GENERAL INFORMATON

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304 WHEELCHAIR TURNING SPACE

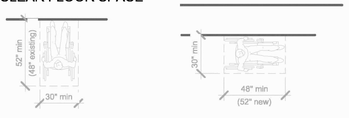


Circular Turning Space New Buildings
Ref: ICC A117.1-2017, Fig. 304.3.1.1
Overlap of knee and toe per 306

Circular Turning Space Existing Buildings
Ref: ICC A117.1-2017, Fig. 304.3.1.2

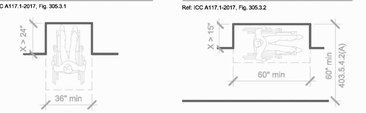
T-Shaped Turning Space New Buildings - Option 1
Ref: ICC A117.1-2017, Fig. 304.3.2.1(A)

305 CLEAR FLOOR SPACE



Clear Floor Space - New Buildings
Ref: ICC A117.1-2017, Fig. 305.3.1

Clear Floor Space - Existing Buildings
Ref: ICC A117.1-2017, Fig. 305.3.2



Maneuvering Clearance in an Alcove Forward Approach
Ref: ICC A117.1-2017, Fig. 305.7.2

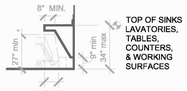
Maneuvering Clearance in an Alcove Parallel Approach
Ref: ICC A117.1-2017, Fig. 305.7.1

306 KNEE & TOE CLEARANCE; 606 LAVATORIES & SINKS; 902 SEATING AT TABLES, COUNTERS, & WORK SURFACES



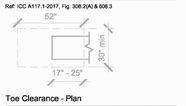
TOP OF SINKS LAVATORIES, TABLES, COUNTERS, & WORKING SURFACES

Toe Clearance
Ref: ICC A117.1-2017, Fig. 306.2(A) & 606.3



TOP OF SINKS LAVATORIES, TABLES, COUNTERS, & WORKING SURFACES

Knee Clearance
Ref: ICC A117.1-2017, Fig. 306.3(A) & 606.3



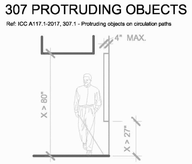
Toe Clearance - Plan
Ref: ICC A117.1-2017, Fig. 306.2(B)



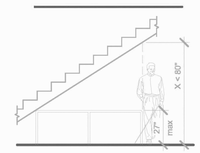
Knee Clearance - Plan
Ref: ICCANSI A117.1-2017, Fig. 306.3(B)

307 PROTRUDING OBJECTS

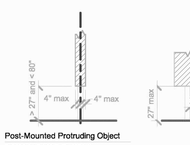
Ref: ICC A117.1-2017, 307.1 - Protruding objects on circulation paths



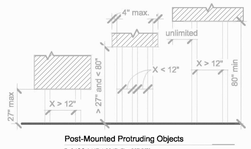
Limits of Protruding Objects
Ref: ICC A117.1-2017, Fig. 307.2



Reduced Vertical Clearance
Ref: ICC A117.1-2017, Fig. 307.4

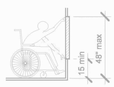


Post-Mounted Protruding Object
Ref: ICC A117.1-2017, Fig. 307.3(A)

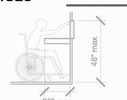


Post-Mounted Protruding Objects
Ref: ICC A117.1-2017, Fig. 307.3(B)

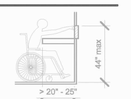
308 REACHING RANGES



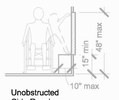
Unobstructed Forward Reach
Ref: ICC A117.1-2017, Fig. 308.2.1



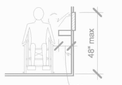
20" Max. Obstructed High Forward Reach
Ref: ICC A117.1-2017, Fig. 308.2.2(A)



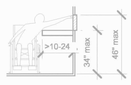
20" - 25" Max. Obstructed High Forward Reach
Ref: ICC A117.1-2017, Fig. 308.2.2(B)



Unobstructed Side Reach
Ref: ICC A117.1-2017, Fig. 308.3.1

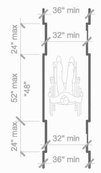


Obstructed High Side Reach
Ref: ICC A117.1-2017, Fig. 308.3.2(A)

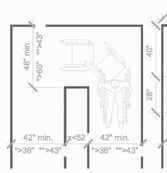


24" Max. Obstructed High Side Reach
Ref: ICC A117.1-2017, Fig. 308.3.2(B)

403 WALKING SURFACES



*Existing buildings
Clear Width of an Accessible Route
Ref: ICC A117.1-2017, 403.5.1(A)



* Option 1 - 403.5.2(A)
** Option 3 - 403.5.2(C)
Clear Width at 180-Degree Turn
Ref: ICC A117.1-2017, Fig. 403.5.2(B)



* Option 2 - 403.5.3.1(B)
Clear Width at 90-Degree Turn - New Buildings - Option 1
Ref: ICC A117.1-2017, Fig. 403.5.3.1(A)

404 DOORS AND DOORWAYS



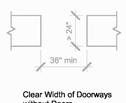
Clear Width of Hinged Door
Ref: ICC A117.1-2017, Fig. 404.2.2(A)



Clear Width of Sliding Door
Ref: ICC A117.1-2017, Fig. 404.2.2(B)



Clear Width of Folding Door
Ref: ICC A117.1-2017, Fig. 404.2.2(C)



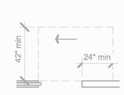
Clear Width of Doorways without Doors
Ref: ICC A117.1-2017, Fig. 404.2.2(D)



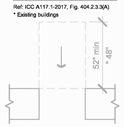
Maneuvering Clearance at Sliding and Folding Door: Front Approach
Ref: ICC A117.1-2017, Fig. 404.2.3.3(A)
* Existing buildings



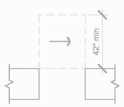
Maneuvering Clearance at Sliding and Folding Door: Pocket or Hinge Approach
Ref: ICC A117.1-2017, Fig. 404.2.3.3(C)



Maneuvering Clearance at Sliding and Folding Door: Stop or Latch Approach
Ref: ICC A117.1-2017, Fig. 404.2.3.3(D)



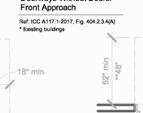
Maneuvering Clearance at Doorways Without Doors: Front Approach
Ref: ICC A117.1-2017, Fig. 404.2.3.4(A)
* Existing buildings



Maneuvering Clearance at Doorways Without Doors: Side Approach
Ref: ICC A117.1-2017, Fig. 404.2.3.4(C)



Maneuvering Clearance at Swinging Door: Front Approach, Pull Side
Ref: ICC A117.1-2017, Fig. 404.2.3.2(A)



* If both closer and latch are provided.
Maneuvering Clearance at Swinging Door: Front Approach, Push Side
Ref: ICC A117.1-2017, Fig. 404.2.3.2(B)
** Existing buildings



Maneuvering Clearance at Swinging Door: Hinge Approach, Pull Side
Ref: ICC A117.1-2017, Fig. 404.2.3.2(D)



Maneuvering Clearance at Swinging Door: Hinge Approach, Pull Side
Ref: ICC A117.1-2017, Fig. 404.2.3.2(E)



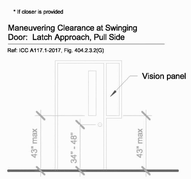
* If both closer and latch are provided
Maneuvering Clearance at Swinging Door: Hinge Approach, Pull Side
Ref: ICC A117.1-2017, Fig. 404.2.3.2(F)



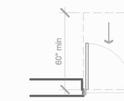
* If closer is provided
Maneuvering Clearance at Swinging Door: Latch Approach, Pull Side
Ref: ICC A117.1-2017, Fig. 404.2.3.2(G)



Maneuvering Clearance at Swinging Door: Latch Approach, Push Side
Ref: ICC A117.1-2017, Fig. 404.2.3.2(H)



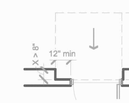
Location of Vision Panel & Hardware
Ref: ICC A117.1-2017, 404.2.6.1, 404.2.10



Maneuvering Clearance at Recessed Door: Pull Side
Ref: ICC A117.1-2017, Fig. 404.2.3.5(A)



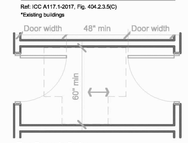
Maneuvering Clearance at Recessed Door: Push Side
Ref: ICC A117.1-2017, Fig. 404.2.3.5(B)
* Existing buildings



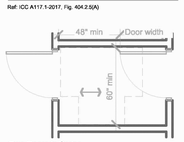
Maneuvering Clearance at Recessed Door: Pull Side
Ref: ICC A117.1-2017, Fig. 404.2.3.5(C)
*Existing buildings



Two Doors in Series
Ref: ICC A117.1-2017, Fig. 404.2.5(A)



Two Doors in Series
Ref: ICC A117.1-2017, Fig. 404.2.5(B)

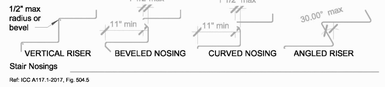


Two Doors in Series
Ref: ICC A117.1-2017, Fig. 404.2.5(C)

504 STAIRWAYS

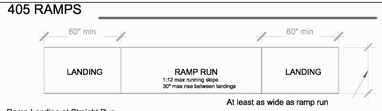


Treads and Risers for Accessible Stairways
Ref: ICC A117.1-2017, Fig. 504.2



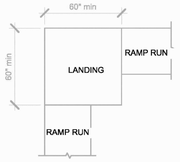
Stair Nosings
Ref: ICC A117.1-2017, Fig. 504.5

405 RAMPS

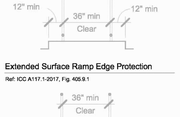


Ramp Landing at Straight Run
Ref: ICC A117.1-2017, Fig. 405.7(A)

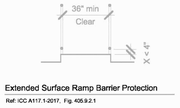
At least as wide as ramp run



Ramp Landing at Turn
Ref: ICC A117.1-2017* Fig. 405.7(B)



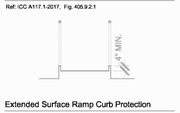
Extended Surface Ramp Edge Protection
Ref: ICC A117.1-2017, Fig. 405.9.1



Extended Surface Ramp Barrier Protection
Ref: ICC A117.1-2017, Fig. 405.9.2.1

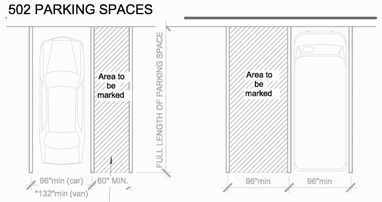


Edge Protection - Limited Drop Off
Ref: ICC A117.1-2017, Fig. 405.9



Extended Surface Ramp Curb Protection
Ref: ICC A117.1-2017, Fig. 405.9.2.2

502 PARKING SPACES



Access aisle serving car and van parking spaces

Van parking space size exception

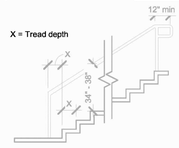
Vehicle Parking Space and Access Aisle
Ref: ICC A117.1-2017, Fig. 502.2(A) & Fig. 502.2(B)

503 PASSENGER LOADING ZONE

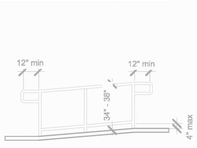


Passenger Loading Zone Access Aisle
Ref: ICC A117.1-2017, Fig. 503.3(A)
* Existing buildings and facilities

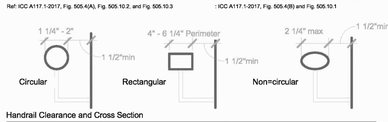
505 HANDRAILS



Top and Bottom Handrail Extensions and Heights at Stairs
Ref: ICC A117.1-2017, Fig. 505.4(A), Fig. 505.10.2, and Fig. 505.10.3

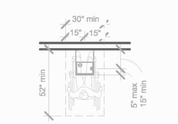


Top and Bottom Handrail Extensions and Heights at Ramps
Ref: ICC A117.1-2017, Fig. 505.4(B) and Fig. 505.10.1

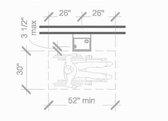


Handrail Clearance and Cross Section
Ref: ICC A117.1-2017, Fig. 505.5 & Fig. 505.7(A-C)

602 DRINKING FOUNTAINS AND WATER COOLERS

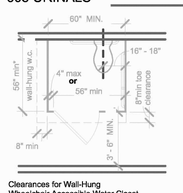


Clear Floor Space at Wheelchair Drinking Fountains
Ref: ICC A117.1-2017, Fig. 602.2.1(A), Fig. 305.5(A), & Fig. 305.7.2



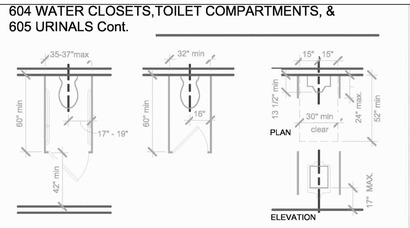
Clear Floor Space at Wheelchair Drinking Fountains Primarily for Children's Use Exception
ref. ICC A117.1-2017, Fig. 602.2.1(B), Fig. 305.5(B), & Fig. 305.7.1

604 WATER CLOSETS,TOILET COMPARTMENTS, & 605 URINALS



Clearances for Wall-Hung Wheelchair Accessible Water Closet
Ref: ICC A117.1-2017, Fig. 604.9.2(A), Fig. 604.9.3.1(A), Fig. 604.2(A), & Fig. 604.8.5(B)
* 56" min. for floor-mounted water closet

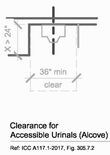
604 WATER CLOSETS,TOILET COMPARTMENTS, & 605 URINALS Cont.



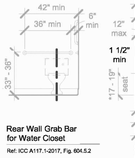
Clearances for Ambulatory Accessible Water Closet
Ref: ICC A117.1-2017, Fig. 604.10.1

Clearances for Standard Water Closet

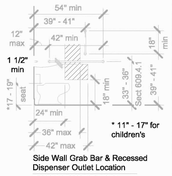
Clearances for Accessible Urinals (Unobstructed)
Ref: ICC A117.1-2017, Sect 605



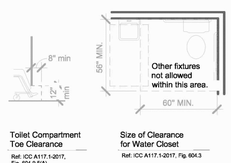
Clearance for Accessible Urinals (Alcove)
Ref: ICC A117.1-2017, Fig. 305.7.2



Rear Wall Grab Bar for Water Closet
Ref: ICC A117.1-2017, Fig. 604.5.2

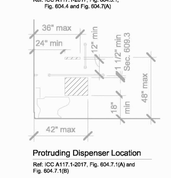


Side Wall Grab Bar & Recessed Dispenser Outlet Location
Ref: ICC A117.1-2017, Fig. 604.5.1, Fig. 604.4 and Fig. 604.7(A)



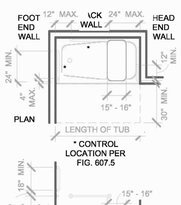
Toilet Compartment Toe Clearance
Ref: ICC A117.1-2017, Fig. 604.9.5(A)

Size of Clearance for Water Closet
Ref: ICC A117.1-2017, Fig. 604.3

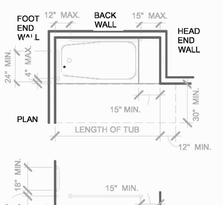


Protruding Dispenser Location
Ref: ICC A117.1-2017, Fig. 604.7.1(A) and Fig. 604.7.1(B)

607 BATHTUBS



Grab Bar Locations & Clearances for Bathtubs without Permanent Seats
Ref: ICC/ANSI A117.1-2017, Fig. 607.2 (A), Fig. 607.4.2 (A) & Fig. 610.2 (A)

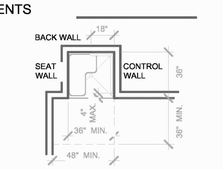


Grab Bar Locations & Clearances for Bathtubs with Permanent Seats
ISI A117.1-2017, Fig. 607.2 (B), Fig. 607.4.1 & Fig. 610.2 (B)

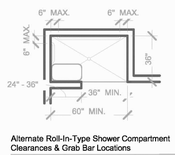
608 SHOWER COMPARTMENTS



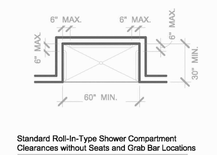
Standard Roll-In-Type Shower Compartment Clearances & Grab Bar Locations
Ref: ICC/ANSI A117.1-2017, Fig. 608.2.2.1 & Fig. 608.3.2(B)



Transfer-Type Shower Compartment Clearances & Grab Bar Locations
Ref: ICC/ANSI A117.1-2017, Fig. 608.4.1 & Fig. 608.3.1



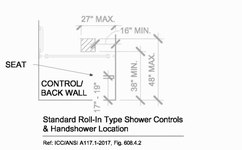
Alternate Roll-In-Type Shower Compartment Clearances & Grab Bar Locations
Ref: ICC/ANSI A117.1-2017, Fig. 608.2.3 & Fig. 608.3.3



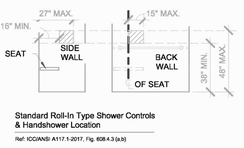
Standard Roll-In-Type Shower Compartment Clearances without Seats and Grab Bar Locations
Ref: ICC/ANSI A117.1-2017, Fig. 608.2.1 & Fig. 608.3.1



Transfer-Type Shower Controls & Handshower Location
Ref: ICC/ANSI A117.1-2017, Fig. 608.4.1

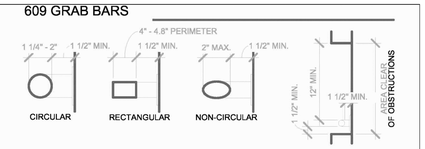


Standard Roll-In Type Shower Controls & Handshower Location
Ref: ICC/ANSI A117.1-2017, Fig. 608.4.2



Standard Roll-In Type Shower Controls & Handshower Location
Ref: ICC/ANSI A117.1-2017, Fig. 608.4.3 (a,b)

609 GRAB BARS



Size of Grab Bars
Ref: ICC/ANSI A117.1-2017, Fig. 609.2 (a-c)

Spacing of Grab Bars
Ref: ICC/ANSI A117.1-2017, Fig. 609.3

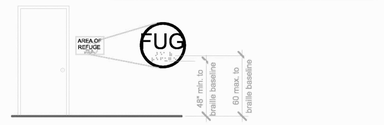
610 SEATS



Rectangular Shower Compartment Seat
Ref: ICC/ANSI A117.1-2017, Fig. 610.3.1

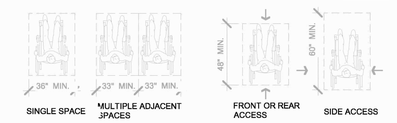
L-Shaped Shower Compartment Seat
Ref: ICC/ANSI A117.1-2017, Fig. 610.3.2

703 BRAILLE



Height of Braille Characters Above Floor
Ref: ICC/ANSI A117.1-2017, Fig. 703.4.10

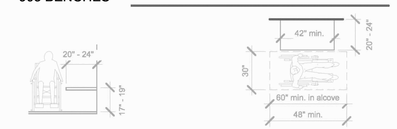
802 AUDITORIUM AND ASSEMBLY AREAS



Width of a Wheelchair Space in Auditorium and Assembly Areas
Ref: ICC/ANSI A117.1-2017, Fig. 802.3 (A-B)

Depth of a Wheelchair Space in Auditorium and Assembly Areas
Ref: ICC/ANSI A117.1-2017, Fig. 802.4 (A-C)

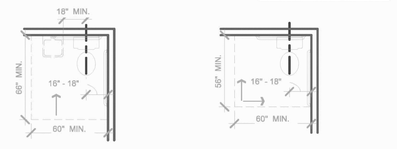
903 BENCHES



Bench Height
Ref: ICC/ANSI A117.1-2017, Fig. 903 (B)

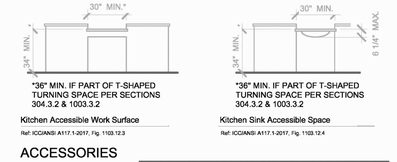
Bench Seats Size & Clearance
Ref: ICC/ANSI A117.1-2017, Fig. 305.5 (B) & Fig. 903 (A)

1103 TYPE A DWELLING UNITS



Forward Approach Water Closet Clearance
Ref: ICC/ANSI A117.1-2017, Comply with 603 thru 610, Figure 1103.11.2.4 (A-D)

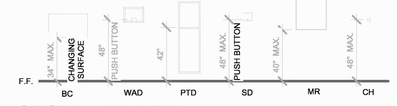
Parallel and Forward Approach Water Closet Clearance
Ref: ICC/ANSI A117.1-2017, Comply with 603 thru 610, Figure 1103.11.2.4 (A,B)



Kitchen Accessible Work Surface
Ref: ICC/ANSI A117.1-2017, Fig. 1103.12.3

Kitchen Sink Accessible Space
Ref: ICC/ANSI A117.1-2017, Fig. 1103.12.4

ACCESSORIES



Typical Toilet Accessories Mounting Heights

*FOR WHEELCHAIRS: 36" MAX. FOR GENERAL OCCUPANCY OR 30" MAX. WHERE CHILDREN ARE PRIMARY USERS.



Typical Toilet Accessories Mounting Heights

NOTE: THIS SHEET IS A REFERENCE FOR GENERAL ACCESSIBILITY REQUIREMENTS FROM ICC A117.1-2017. SOME DETAILS MAY REFERENCE ACCESSORIES OR CONDITIONS THAT DO NOT APPLY TO THIS SPECIFIC PROJECT.

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STATE OF SOUTH CAROLINA — DAVID L. DIXON — 3944 — Greenville, SC — 5/1/26 — REGISTERED ARCHITECT

CONSULTANT

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
△	-	-

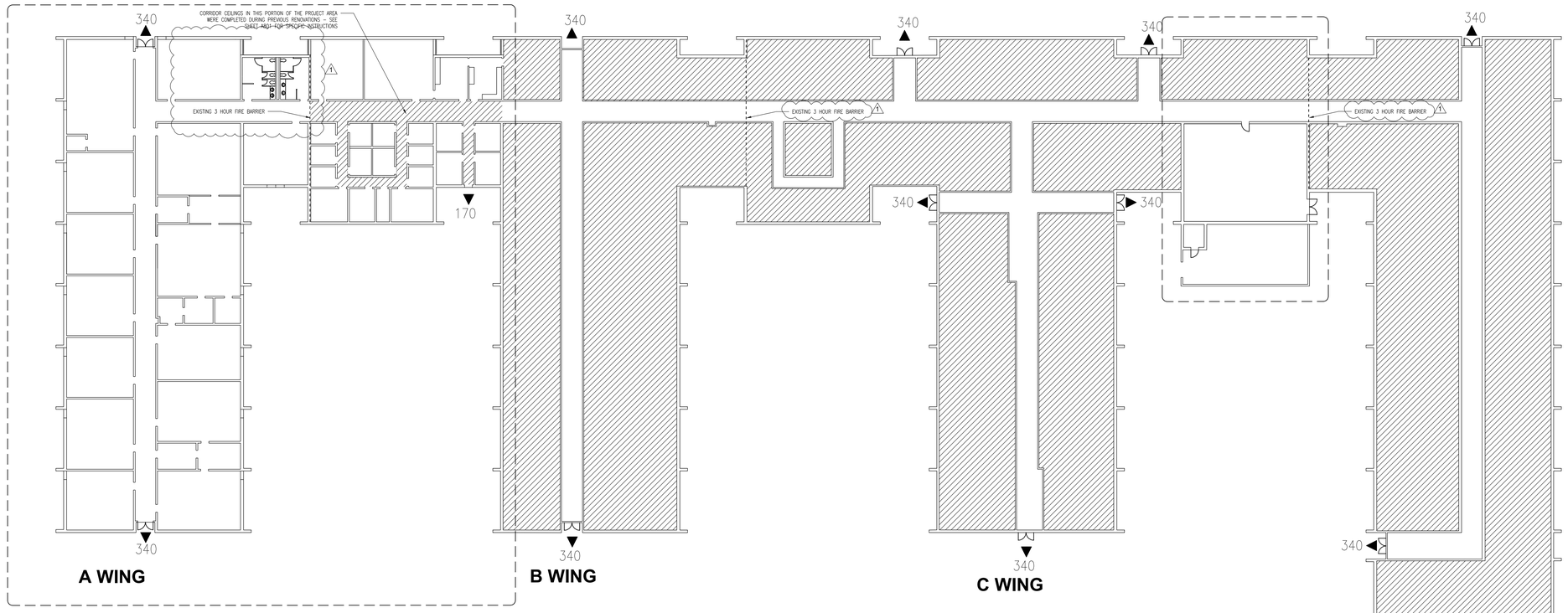
SCHEMATIC
5/1/26
26010
DLD
DLD

ACCESSIBILITY STANDARDS

G102

F E D C B A

7 6 5 4 3 2 1



1 LS101 **OVERALL LIFE SAFETY PLAN**

1" = 20'

2023 Edition

NOTE: Where a fire wall is necessary to separate buildings, each building is to be provided individual code criteria Tables 3 through 11. See IBC 503.1.2.

TABLE 3 BASIC BUILDING CODE INFORMATION		
CONSTRUCTION CLASSIFICATION (IBC 602)	Type: Type II-B	
OCCUPANCY CLASSIFICATION (indicate all) (IBC 302 & 504.2)	Business	
MOST RESTRICTIVE OCCUPANCY CLASSIFICATION (IBC Tables 504.3, 504.4 & 506.2)	Business	
Mixed Occupancy (IBC 508)	Yes ☐	No ☒
Separated (IBC 506.2.2 & 508.4)	Yes ☐	No ☒
Non separated (IBC 508.3)	Yes ☐	No ☒
Does building require Incidental Use Area Separation? (IBC 509.1)	Yes ☐	No ☒
2-way Communication Required (IBC 1009.6.5 & 1009.8)	Yes ☐	No ☒
Fire Apparatus Access and Water Line (IFC 503 & 507)	Yes ☐	No ☒
OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES If the building has any special or notable fire protection or safety feature or hazard the designers should list them here, describe the performance characteristics and refer to locations in construction documents. (e.g. fire extinguishers, smoke- evacuation/control/compartments - IDC 414.1.3.)		

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: 75,116 SF	
	Work area: 0 SF	
	☐ **Option 3: Performance Compliance Method (IEBC Chap. 13)**	
CONSTRUCTION CLASSIFICATION (IBC 602) Type: II-B		
Change of Occupancy:	☐ Yes	☒ No
Existing Occupancy Classification(s): Business		
New Occupancy Classification(s): Business		
Original Building Code and Edition Applicable at time of Construction: Not Known		
Provisions for Accessibility Required (IEBC 306)?	☒ Yes	☐ No
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
Emergency Responder Communication Coverage: (IFC Section 510.2) Provide test to confirm if Communication Coverage Enhancement is Required?	☒ Yes	☐ No
If No, please explain why not:		
Historic Building (IEBC Chapter 12):	☐ Yes	☒ No
☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction		

2023 Edition

TABLE 5 BUILDING DESIGN OCCUPANT LOAD

		A	B	C	D
STORY	**FUNCTION OF SPACE [1]**	**FLOOR AREA [2] (NSF or GSF)**	**MAX AREA ALLOWED PER OCCUPANT [3] (NSF or GSF)**	**OCCUPANTS ON FLOOR FOR THIS FUNCTION [4]**	**DESIGN OCCUPANT LOAD [5]**
1	Classroom	11251 nsf	20	572	
	Office	2096 gsf	150	23	
	Storage	1201 nsf	300	8	
	____	____	____	____	
	Subtotal Design Occupant Load for This Story				602
____	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	Subtotal Design Occupant Load for This Story				____
____	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	Subtotal Design Occupant Load for This Story				____
____	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	Subtotal Design Occupant Load for This Story				____
____	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	Subtotal Design Occupant Load for This Story				____
TOTAL BUILDING DESIGN OCCUPANT LOAD					602 [6]

FOOTNOTES:

1. Provide the complete name of the Function of Space using the left column of Table 1004.5 of the IBC [1]
2. Design Area per each occupant of this Function on this Story in either Gross (GSF) or Net (NSF) Square Footage [2]
3. Allowed Floor Areas in SF per Occupant per right column in Table 1004.5 of the IBC [3]
4. Divide Column A (2) by Column B (3) for each function and enter result, rounded up to the nearest whole person [4]
5. Subtotal all Column C values for this floor to yield the Design Occupant Load [5]
6. Total Building Design Occupant Load –sum of all Column D value [6]

THIS PROJECT IS THE FOURTH AND FINAL PHASE OF RENOVATION TO THE EXISTING BUILDING

THE OVERALL EXISTING BUILDING CONSISTS OF 75,116 GSF AND IT IS DIVIDED INTO 4 FIRE AREAS VIA EXISTING 1-HOUR FIRE BARRIERS INCLUDING FUSIBLE LINK FIRE SHUTTERS IN THE CORRIDORS.

THE PROJECT CONSISTS OF LEVEL 1 ALTERATIONS OF 18,772 GSF.

NO ADDITIONS OR RECONFIGURATIONS ARE BEING PROPOSED AS A PART OF THIS PROJECT.

UNDER PREVIOUS RENOVATIONS, THIS PORTION OF THE PROJECT WAS CLASSIFIED AS BUSINESS (B) OCCUPANCY.

THE BUILDING WAS ORIGINALLY CONSTRUCTED AS A TYPE IV BUILDING, EQUIVALENT TO TYPE II-B, NON-SPRINKLERED IN THE 2021 IBC.

TABLE 506.2 ALLOWS 23,000 SF OF AREA (NOT INCLUDING AREA INCREASES)

FROM PREVIOUS RENOVATION DOCUMENTS, THE OVERALL OCCUPANT LOAD OF THE ENTIRE BUILDING IS 1883 OCCUPANTS.

IBC 2021 REQUIRES 19 FIXTURES FOR EACH SEX; HOWEVER, THE IEBC REQUIRES NO CHANGES WITH A LEVEL 1 ALTERATION. ACCESSIBLE SINGLE FIXTURE RESTROOM FACILITIES ARE PROVIDED IN PHASE 1 (D WING RENOVATIONS)

EXISTING TOILET COUNTS REMAIN UNCHANGED
-16 WOMEN'S WATER CLOSETS
-21 MEN'S WATER CLOSETS
-14 MEN'S URINAL

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OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
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1	5/28/26	OSE COMMENTS

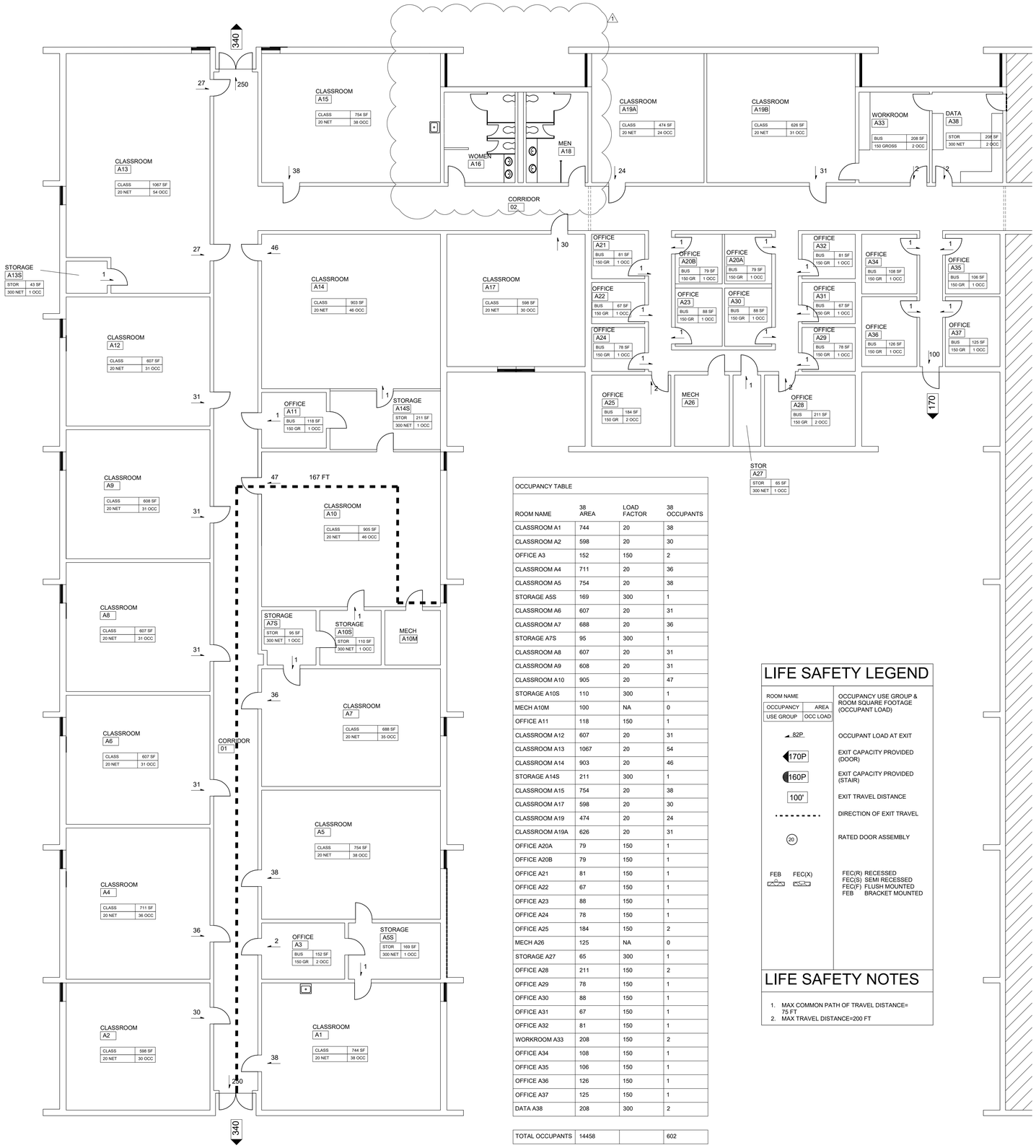
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PROJECT NO:	26010
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OVERALL LIFE SAFETY PLAN

LS 101

F E D C B A

7 6 5 4 3 2 1



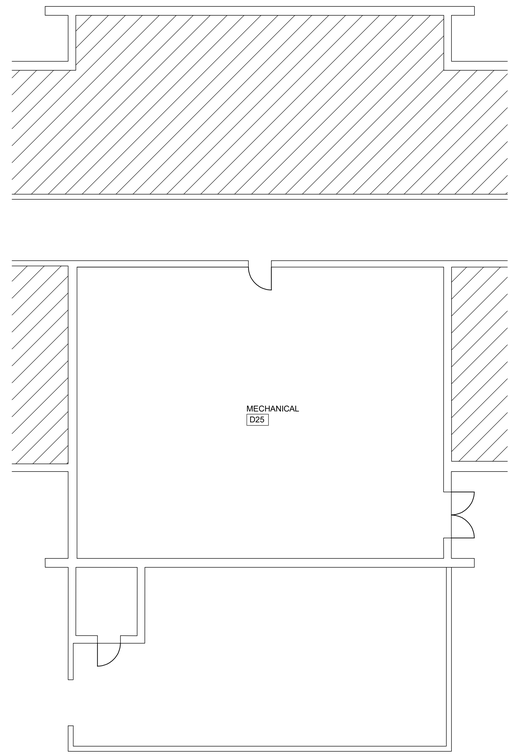
OCCUPANCY TABLE			
ROOM NAME	38 AREA	LOAD FACTOR	38 OCCUPANTS
CLASSROOM A1	744	20	38
CLASSROOM A2	598	20	30
OFFICE A3	152	150	2
CLASSROOM A4	711	20	36
CLASSROOM A5	754	20	38
STORAGE A5S	169	300	1
CLASSROOM A6	607	20	31
CLASSROOM A7	688	20	36
STORAGE A7S	95	300	1
CLASSROOM A8	607	20	31
CLASSROOM A9	608	20	31
CLASSROOM A10	905	20	47
STORAGE A10S	110	300	1
MECH A10M	100	NA	0
OFFICE A11	118	150	1
CLASSROOM A12	607	20	31
CLASSROOM A13	1067	20	54
CLASSROOM A14	903	20	46
STORAGE A14S	211	300	1
CLASSROOM A15	754	20	38
CLASSROOM A17	598	20	30
CLASSROOM A19	474	20	24
CLASSROOM A19A	626	20	31
OFFICE A20A	79	150	1
OFFICE A20B	79	150	1
OFFICE A21	81	150	1
OFFICE A22	67	150	1
OFFICE A23	88	150	1
OFFICE A24	78	150	1
OFFICE A25	184	150	2
MECH A26	125	NA	0
STORAGE A27	65	300	1
OFFICE A28	211	150	2
OFFICE A29	78	150	1
OFFICE A30	88	150	1
OFFICE A31	67	150	1
OFFICE A32	81	150	1
WORKROOM A33	208	150	2
OFFICE A34	108	150	1
OFFICE A35	106	150	1
OFFICE A36	126	150	1
OFFICE A37	125	150	1
DATA A38	208	300	2
TOTAL OCCUPANTS	14458		602

LIFE SAFETY LEGEND

ROOM NAME OCCUPANCY / AREA USE GROUP / OCC LOAD	OCCUPANCY USE GROUP & ROOM SQUARE FOOTAGE (OCCUPANT LOAD)
82P	OCCUPANT LOAD AT EXIT
170P	EXIT CAPACITY PROVIDED (DOOR)
160P	EXIT CAPACITY PROVIDED (STAIR)
100'	EXIT TRAVEL DISTANCE
	DIRECTION OF EXIT TRAVEL
20	RATED DOOR ASSEMBLY
FEB FEC(X)	FEC(R) RECESSED FEC(S) SEMI RECESSED FEC(F) FLUSH MOUNTED FEB BRACKET MOUNTED

LIFE SAFETY NOTES

1. MAX COMMON PATH OF TRAVEL DISTANCE= 75 FT
2. MAX TRAVEL DISTANCE=200 FT



1 LS102 **LIFE SAFETY PLAN**

1 / 8 " = 1'-0"

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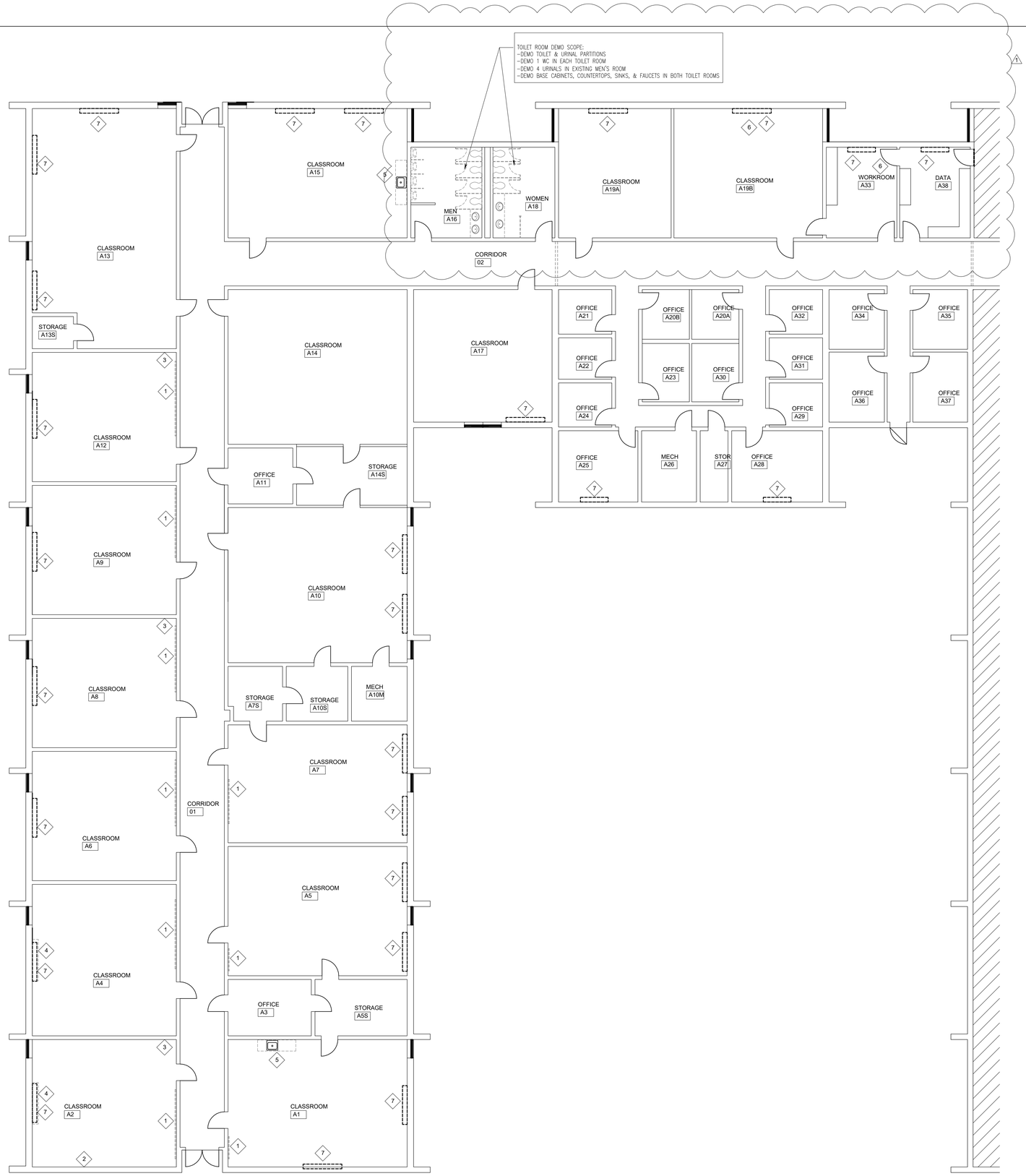
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DRAWN BY:	DLD
CHECKED BY:	DLD

LIFE SAFETY PLAN

LS102

F E D C B A

7 6 5 4 3 2 1



DEMO KEYED NOTES

1. CAREFULLY REMOVE AND DISPOSE OF EXISTING 4" HIGH (LENGTH VARIES – CHALKBOARDS (SOME COVERED WITH MARKER SURFACES) ADHERED TO CMU WALLS.

   WHERE REMOVED, SAND ALL ADHESIVE FLUSH WITH CMU, FILL ALL HOLES ASSOCIATED WITH ATTACHMENT OR CONCEALED BEHIND BOARDS FOR FINAL PAIINTING.

2. REMOVE EXISTING PUBLIC ADDRESS SPEAKER, COVER JUNCTION BOX WITH BLANK PLATE, AND PREPARE SURFACE FOR PAINTING.

3. REMOVE EXISTING PUBLIC ADDRESS WALL BUTTON, COVER JUNCTION BOX WITH BLANK PLATE, AND FILL ALL HOLES TO PREPARE SURFACE FOR PAIINTING.

4. REMOVE EXISTING WALL MOUNTED WOOD CABINETS, FILL ALL WALL HOLES WHERE ATTACHMENTS ARE REMOVED, AND FILL ALL HOLES TO PREPARE SURFACE FOR PAINTING.

5. REMOVE EXISTING WALL & FLOOR MOUNTED BASE CABINETS, REPAIR ALL HOLES WALLS WHERE ATTACHMENTS ARE REMOVED, AND PREPARE WALL SURFACE FOR PAINTING AND INSTALLATION OF NEW CASEWORK SINKS, AND FAUCETS.

6. REMOVE EXISTING FLOOR TILE IN ENTIRE ROOM AND PREPARE SURFACE FOR INSTALLATION OF NEW VCT TILE.

7. REMOVE EXISTING WALL AND FLOOR MOUNTED FAN COIL HVAC UNITS. SEE HVAC DRAWINGS FOR NEW MECHANICAL SYSTEM DESIGN. INFILL BRICK AT EXTERIOR WALLS AND PAINT GRADE PLYWOOD PANELS ATTACHED TO STEEL STUD FRAMING AT INTERIOR WHERE UNITS ARE REMOVED (SEE DETAIL 5/A201). FURNISH & INSTALL NEW VCT FLOORING WHERE UNIT IS TO BE REMOVED.

1 / A101 **DEMO PLAN PLAN**

1 / 8 " = 1'-0"

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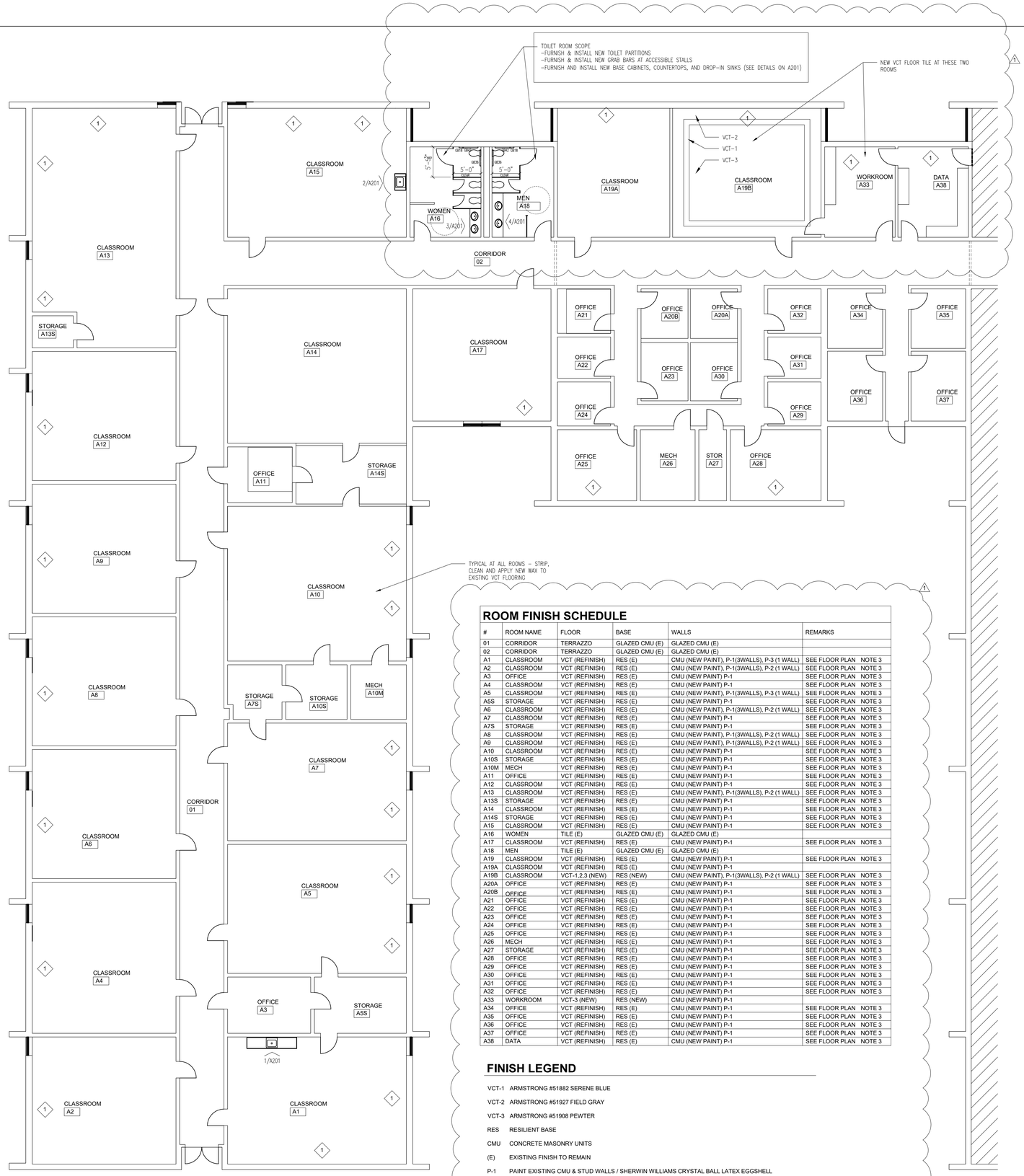
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DEMO PLAN

D101



ROOM FINISH SCHEDULE

#	ROOM NAME	FLOOR	BASE	WALLS	REMARKS
01	CORRIDOR	TERRAZZO	GLAZED CMU (E)	GLAZED CMU (E)	
02	CORRIDOR	TERRAZZO	GLAZED CMU (E)	GLAZED CMU (E)	
A1	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT), P-1(3WALLS), P-3 (1 WALL)	SEE FLOOR PLAN NOTE 3
A2	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT), P-1(3WALLS), P-2 (1 WALL)	SEE FLOOR PLAN NOTE 3
A3	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A4	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A5	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT), P-1(3WALLS), P-3 (1 WALL)	SEE FLOOR PLAN NOTE 3
A5S	STORAGE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A6	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT), P-1(3WALLS), P-2 (1 WALL)	SEE FLOOR PLAN NOTE 3
A7	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A7S	STORAGE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A8	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT), P-1(3WALLS), P-2 (1 WALL)	SEE FLOOR PLAN NOTE 3
A9	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT), P-1(3WALLS), P-2 (1 WALL)	SEE FLOOR PLAN NOTE 3
A10	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A10S	STORAGE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A10M	MECH	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A11	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A12	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A13	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT), P-1(3WALLS), P-2 (1 WALL)	SEE FLOOR PLAN NOTE 3
A13S	STORAGE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A14	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A14S	STORAGE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A15	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A16	WOMEN	TILE (E)	GLAZED CMU (E)	GLAZED CMU (E)	
A17	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A18	MEN	TILE (E)	GLAZED CMU (E)	GLAZED CMU (E)	
A19	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A19A	CLASSROOM	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	
A19B	CLASSROOM	VCT-1,2,3 (NEW)	RES (NEW)	CMU (NEW PAINT), P-1(3WALLS), P-2 (1 WALL)	SEE FLOOR PLAN NOTE 3
A20A	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A20B	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A21	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A22	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A23	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A24	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A25	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A26	MECH	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A27	STORAGE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A28	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A29	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A30	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A31	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A32	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A33	WORKROOM	VCT-3 (NEW)	RES (NEW)	CMU (NEW PAINT) P-1	
A34	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A35	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A36	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A37	OFFICE	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3
A38	DATA	VCT (REFINISH)	RES (E)	CMU (NEW PAINT) P-1	SEE FLOOR PLAN NOTE 3

FINISH LEGEND

VCT-1	ARMSTRONG #51882 SERENE BLUE
VCT-2	ARMSTRONG #51927 FIELD GRAY
VCT-3	ARMSTRONG #51908 PEWTER
RES	RESILIENT BASE
CMU	CONCRETE MASONRY UNITS
(E)	EXISTING FINISH TO REMAIN
P-1	PAINT EXISTING CMU & STUD WALLS / SHERWIN WILLIAMS CRYSTAL BALL LATEX EGGSHELL
P-2	ACCENT PAINT AT CMU WALLS (1 WALL IN SPECIFIED ROOMS) / SHERWIN WILLIAMS EXSTING BLUE LATEX EGGSHELL CUSTOM COLOR MATCH
P-3	ACCENT PAINT AT CMU WALLS (1 WALL IN SPECIFIED ROOMS) SHERWIN WILLIAMS EXISTING GRAY, LATEX ENAMEL, CUSTOM COLOR MATCH
P-4	DOOR FRAME AT CORRIDOR SIDE / SHERWIN WILLIAMS EXISTING TAN CUSTOM COLOR MATCH, LATEX ENAMEL, SEMI-GLOSS
P-5	DOOR FRAME AT ROOM SIDE / SHERWIN WILLIAMS STERLING COIN #8782, LATEX ENAMEL, SEMI-GLOSS

1 A101 **FLOOR PLAN**
1 / 8 " = 1'-0"

2 A101 **MECH ROOM FLOOR PLAN**
1 / 8 " = 1'-0"

FLOOR PLAN NOTES

1. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF FINISH. DIMENSIONS TO WOOD STUD WALLS IN SUCCESSION ARE DIMENSIONED TO CENTER OF STUDS.
2. ALL EXISTING DOORS SHALL BE SNADED, STAINED, AND SEALED, IN PLACE. PROTECT ALL HARDWARE DURING REFINISHING OPERATIONS.
3. ALL ROOMS (OFFICES, STORAGE ROOMS, AND CLASSROOMS), EXCEPT CLASSROOM A19A AND CLASSROOM A33 SHALL RECEIVE FULL RESTORATION OF VCT FLOORING TO INCLUDE STRIPPING, CLEANING AND APPLICATION OF NEW WAX.
4. WHERE FAN COIL HVAC UNITS ARE REMOVED FROM CLASSROOMS & OFFICES AS NOTED ON THE FLOOR PLAN, FURNISH & INSTALL NEW VCT-1 AND VCT-2 FLOORING TO PATCH FLOOR WHERE UNITS ARE REMOVED.
5. EXISTING TERRAZZO FLOORS AT CORRIDORS SHALL BE STRIPPED AND REWAXED PRIOR TO SUBSTANTIAL COMPLETION.

FLOOR PLAN KEYED NOTES

1 REMOVE EXISTING WALL AND FLOOR MOUNTED FAN COIL HVAC UNITS. SEE HVAC DRAWINGS FOR NEW MECHANICAL SYSTEM DESIGN. INFILL BRICK AT EXTERIOR WALLS AND PAINT GRADE PLYWOOD PANELS ATTACHED TO STEEL STUD FRAMING AT INTERIOR WHERE UNITS ARE REMOVED (SEE DETAIL 5/A201)

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STATE OF SOUTH CAROLINA — DAVID L. DIXON Greenville, SC 3944 5/1/26 — REGISTERED ARCHITECT

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

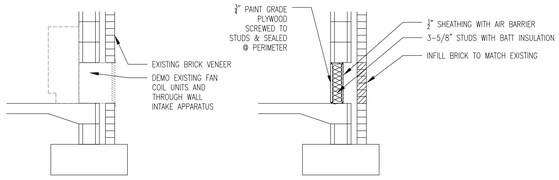
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/26	OSE COMMENTS

ISSUE:	SCHEMATIC
DATE:	5/1/26
PROJECT NO:	26010
DRAWN BY:	DLD
CHECKED BY:	DLD

FLOOR PLAN

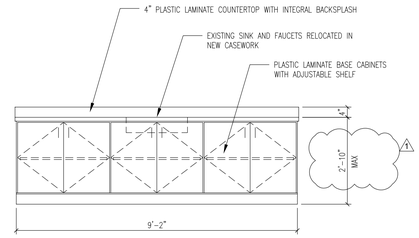
A101



CONDITION EXISTS AT 25 LOCATIONS AT BUILDING PERIMETER

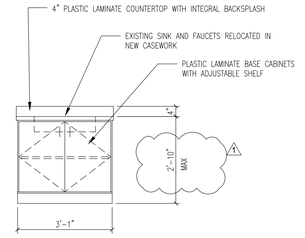
5 A201 **FAN COIL REPAIR DETAIL**

1 / 2 " = 1'-0"



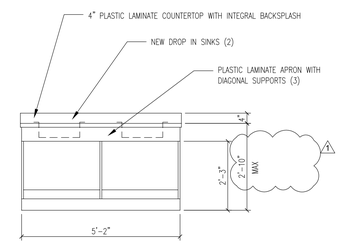
1 A201 **CLASSROOM A1**

1 / 2 " = 1'-0"



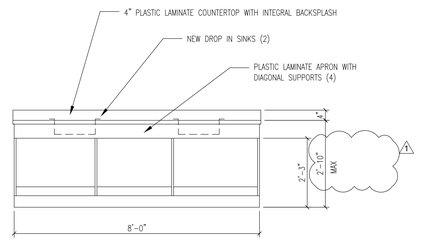
2 A201 **CLASSROOM A15**

1 / 2 " = 1'-0"



3 A201 **MEN A16**

1 / 2 " = 1'-0"



4 A201 **WOMEN A18**

1 / 2 " = 1'-0"

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OSE PROJECT NO.
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131 COMMUNITY COLLEGE DRIVE
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ENLARGED PLANS INTERIOR DETAILS

A201

F E D C B A

7 6 5 4 3 2 1



CEILING NOTES

1. UNLESS NOTED OTHERWISE, ALL CEILINGS SHALL BE 9'-0" AFF
2. ALL ROOMS SHALL RECEIVE NEW 15/16" GRID AND 24" X 24" TEGULAR EDGE ACOUSTICAL CEILING TILE
3. CEILINGS AT CORRIDOR 01 AND CORRIDOR 02 SHALL BE FIRE RATED GRID AND TILE WITH INTUMESCENT SHROUDS AT LIGHT FIXTURES.

GENERAL CEILING NOTES

1. See finish schedule for ceiling material specifications.
2. Unless noted otherwise, suspended grid ceilings shall be centered in all spaces.
3. Unless noted otherwise, all ceiling heights shall be installed 10'-0" above the finished floor elevation.
4. Provide access panels where required for access to equipment or devices located above continuous hard ceilings. The Contractor shall coordinate the reflected ceiling plans with engineering drawings for access door locations. Where ceiling access doors are required in public areas such as lobbies, public restrooms and conference rooms, access doors shall be through a removable grille in lieu of an operable access door. All access doors shall be indicated on coordination drawings and coordinated in the field with the Architect / Engineer.
5. See engineering drawings for mechanical and electrical devices that are within the scope of the project but which are not depicted on these drawings.
6. Unless noted otherwise, all devices including, but not limited to, lights, speakers, mechanical grilles, and switches shall be centered within the ceiling tile where indicated.
7. Contractor shall provide all necessary framing and cross bracing for gypsum ceilings and vertical walls that define a break in a ceiling plane.
8. All suspended ceiling work shall meet the requirements of all applicable codes and standards. Determination and evaluation of applicable code requirements, the engineering design of the system, and the installation of mechanical and electrical equipment within the suspended ceiling assembly shall be the responsibility of the Contractor or specialty Subcontractors. If required by code, an engineer licensed in the state in which the project is located shall design the system and submit design documents and calculations to the Architect for review.
9. The Contractor shall coordinate all utility piping, ductwork, conduit, equipment, devices, fixtures and grilles with the architectural reflected ceiling plans and building sections. System components indicated on the drawings are approximate in nature and must be coordinated between all Subcontractors during the submittal phase and prior to installation of equipment. The Contractor shall prepare coordination drawings for review and approval prior to the installation of any systems components or suspended ceilings.

REFLECTED CEILING PLAN LEGEND

- ACP-1: 2'x2' SUSPENDED ACOUSICAL PANEL CEILING SYSTEM (FIRE RATED AT CORRIDORS)
- GYPSUM BOARD CEILING
- 2 x 4 LIGHT FIXTURE
- 1 x 4 LIGHT FIXTURE
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- CEILING ACCESS PANEL

1 / A801 **CEILING PLAN**

1 / 8 " = 1'-0"

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△	.	.

ISSUE:	SCHEMATIC
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PROJECT NO:	26010
DRAWN BY:	DLD
CHECKED BY:	DLD

CEILING PLAN

A801

F E D C B A

7 6 5 4 3 2 1

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING ALL WORK DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL OSHA REGULATIONS ON THE PROJECT SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION AND CONSTRUCTION.
2. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO PERFORM THE CONSTRUCTION WORK IN ACCORDANCE WITH DRAWINGS. THE COST OF ANY TESTS OR WORK REQUIRED BECAUSE OF CONTRACTOR'S FAILURE TO PERFORM IN ACCORDANCE WITH THE DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
3. CONTRACTOR SHALL REFER TO OTHER DISCIPLINE'S DRAWINGS AND VISIT SITE TO OBSERVE EXISTING CONSTRUCTION AND AS-BUILT CONDITIONS. SURVEY PROJECT SITE TO LOCATE UNDERGROUND ITEMS & UTILITIES. REMOVE / RELOCATE EXISTING ITEMS IF REQUIRED FOR NEW CONSTRUCTION. COORDINATE ANY DISRUPTION OF SERVICES WITH OWNER.
4. CONTRACTOR SHALL REFER TO EXISTING SITE CONDITIONS TO COORDINATE ALL DIMENSIONS AND ELEVATIONS RELATED TO WORK SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH THE FABRICATOR. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL COORDINATE ALL ROOF OPENINGS WITH STRUCTURAL, ARCHITECTURAL, AND MECHANICAL DRAWINGS.
6. ALL MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE WITH SOUTH CAROLINA MODIFICATIONS.
7. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION, OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, UNLESS SPECIFICALLY STATED OTHERWISE.
8. BOTH BAILEY AND SON ENGINEERING, INC. AND THE ENGINEER WHOSE PROFESSIONAL SEAL IS AFFIXED TO THESE CONTRACT DRAWINGS DISCLAIM ANY IMPLIED WARRANTIES OF ANY KIND WHATSOEVER INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY OF FITNESS OF THESE DRAWINGS AND/OR SPECIFICATIONS.
9. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION. DRAWINGS SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITY, QUALITY, AND COORDINATION WITH ALL DISCIPLINES.
10. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN CASE OF DISCREPANCIES, NOTIFY THE ENGINEER FOR INTERPRETATION.
11. THE REHABILITATION OF AN EXISTING STRUCTURE REQUIRES ASSUMPTIONS TO BE MADE REGARDING EXISTING CONDITIONS. THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT ADDITIONAL COST OR WITHOUT DESTROYING OTHERWISE SERVICEABLE PORTIONS OF THE STRUCTURE. THE ENGINEER SHALL NOT BE LIABLE FOR ANY COST ARISING FROM THE DISCOVERY OF UNKNOWN CONDITIONS IN THE EXISTING STRUCTURE.
12. THE DETAILER SHALL WORK WITH THE STRUCTURAL, ARCHITECTURAL, AND MECHANICAL DOCUMENTS WHILE PREPARING SHOP DRAWINGS. THE DETAILER SHALL REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. IF THE DETAILER ELECTS TO SCALE THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN, THE DETAILER SHALL SUBMIT SHOP DRAWINGS THAT REQUEST ARCHITECTURAL VERIFICATION OF SCALED DIMENSIONS WHEN SUBMITTED FOR APPROVAL.

DESIGN LOADS AND CRITERIA:

INTERNATIONAL BUILDING CODE, 2021 EDITION W/ SC MODIFICATIONS, WHICH INCLUDES BUT IS NOT LIMITED TO:

ROOF DEAD LOAD: 20 PSF (ASSUMED FROM 1972 DRAWINGS OF THE OTHER WINGS)
ROOF LIVE LOAD: 20 PSF W/ LIVE LOAD REDUCTION AS ALLOWABLE BY CODE

RTU A MODEL #: OAH045GDGC: 13,100 LB (RTU WEIGHT FROM HVAC ROOF PLAN DATED 4/3/2026 FROM CROW AND BULMAN ENGINEERING, INC)

EXHAUST FANS: 600 LB (WEIGHT FROM HVAC ROOF PLAN DATED 4/3/2026 FROM CROW AND BULMAN ENGINEERING, INC)

SNOW LOAD:
GROUND SNOW LOAD, P_g = 10 PSF
FLAT ROOF SNOW LOAD, P_f = 11 PSF
EXPOSURE FACTOR, C_e = 1.0
IMPORTANCE FACTOR, I_s = 1.0
THERMAL FACTOR, C_t = 1.0

WIND LOAD:
RISK CATEGORY: III
ULTIMATE WIND SPEED (3-SEC. GUST) = 116 MPH
NOMINAL WIND SPEED (3-SEC. GUST) = 89.9 MPH
WIND EXPOSURE: B
COMPONENTS AND CLADDING: PER ASCE 7-16, CHAPTER 30, SECT. 30.4
WITH APPLICABLE ADJUSTMENT FACTORS. SEE A4/S001
INTERNAL PRESSURE COEFFICIENT: GC_{pi} = ±0.18 <ASCE 7-16, TABLE 26.13-1>

SEISMIC DESIGN DATA:
RISK CATEGORY: III
IMPORTANCE FACTOR, I_e = 1.25
SOIL SITE CLASS: D (PER CODE DEFAULT)
MAPPED SPECTRAL RESPONSE ACCELERATIONS: S_S = 0.267 g, S_1 = 0.91 g
SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = 0.282 g, S_{D1} = 0.146 g
SEISMIC DESIGN CATEGORY: C

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

STRUCTURAL STEEL NOTES:

1. DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, FIFTEENTH EDITION, UNLESS NOTED OTHERWISE.
2. MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS:
STRUCTURAL STEEL.....ASTM A36
BOLTS.....ASTM A325-N
WELDING ELECTRODES.....AWS-A5.1, E70XX LOW HYDROGEN (OR EQUAL)
3. ALL STRUCTURAL WELDING SHALL BE MADE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS SPECIFICATIONS D1.1. ALL WELDING RELATED TO OVERHEAD CRANES OR OVERHEAD HANDLING EQUIPMENT SHALL BE MADE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE LATEST EDITION OF AWS D14.1 - SPECIFICATION FOR WELDING OF INDUSTRIAL AND MILL CRANES AND OTHER MATERIAL HANDLING EQUIPMENT.

   ELECTRODE STORAGE FOR LOW-HYDROGEN ELECTRODES SHALL BE STORED @ 250° WHEN EXPOSURE EXCEEDS REQUIREMENTS OF COLUMN A, TABLE 51 OF AWS. WELD CLEANING AND PAINTING OF COMPLETED WELDS SHALL BE IN ACCORDANCE WITH AWS.
4. UNLESS NOTED OTHERWISE ON THE PLANS, CONNECTIONS SHALL DEVELOP AT LEAST ONE-HALF OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE TABLES OF THE AISC MANUAL FOR THE GIVEN SECTION AND SPAN OF THE BEAM IN QUESTION. IN NO CASE, HOWEVER, SHALL THE LENGTH OF FRAMED CONNECTIONS BE LESS THAN ONE-HALF THE "T" DIMENSION OF THE BEAM WEB. CONNECTIONS INDICATED ON THE PLANS BY "*" SHALL CONTAIN THE MAXIMUM NUMBER OF ROWS OF BOLTS, AT 3" PITCH, THAT CAN BE FIT IN A CLIP ANGLE WHOSE LENGTH EQUALS THE "T" DIMENSION OF THE BEAM.
5. ALL BOLTED CONNECTIONS SHALL BE BEARING-TYPE USING 3/4" DIAMETER AND BROUGHT TO A SNUG TIGHT CONDITION. A325-N BOLTS WITH THREADS INCLUDED IN SHEAR PLANE, UNLESS NOTED OTHERWISE.
6. SHOP CONNECTIONS MAY BE BOLTED OR WELDED.
7. FIELD CONNECTIONS SHALL BE BOLTED UNLESS NOTED OTHERWISE ON DRAWINGS.
8. SURFACE PREPARATIONS FOR STRUCTURAL STEEL SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP6 (COMMERCIAL BLAST CLEANING). PRIME STEEL WITH STANDARD SHOP PRIMER AT 2 MILS DFT. SHOP PRIMER SHALL BE COMPATIBLE WITH OVERCOAT.
9. PROVIDE MISCELLANEOUS STEEL & SUPPORT ANGLES AROUND ROOF PENETRATIONS AND OPENINGS REQUIRED TO SUPPORT ENDS AND EDGES OF METAL DECK.
10. FABRICATOR/ERECTOR SHALL PRE-TENSION BOLTS AS REQUIRED BY AISC FOR ALL CONNECTIONS IN TENSION, THAT ARE SLIP CRITICAL, OR THAT ARE FULLY PRE-TENSIONED BEARING CONNECTIONS. VERIFY WITH ENGINEER IF UNSURE OF WHICH CONNECTIONS REQUIRE PRE-TENSIONED BOLTS OR IF UNSURE WHICH METHOD OF PRE-TENSIONING IS ACCEPTABLE.
11. WHEN STRUCTURAL STEEL SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC, CHAPTER 17 APPLY,
    A. THE CONTRACTOR SHALL PROVIDE THE STEEL INSPECTOR:
       1. WELDER QUALIFICATION CERTIFICATES (DATED WITHIN THE PAST 48 MONTHS)
       2. WELD PROCEDURES FOR WHICH WELDERS ARE CERTIFIED.
       3. ELECTRODE TYPE TO BE USED FOR STRUCTURAL STEEL.
       4. ELECTRODE TYPE TO BE USED FOR METAL DECKING.
    B. ALL PJP AND CJP WELDS SHALL BE CONTINUOUSLY MONITORED DURING WELDING.
    C. ALL MULTIPASS FILLET WELDS SHALL BE CONTINUOUSLY MONITORED DURING WELDING.
    D. SINGLE-PASS FILLET WELDS GREATER THAN 5/16" SHALL BE CONTINUOUSLY MONITORED DURING WELDING.
    E. INSTALLATION OF HIGH-STRENGTH BOLTS SHALL BE PERIODICALLY INSPECTED DURING INSTALLATION.
    F. VERIFICATION OF HIGH STRENGTH BOLTS WILL BE REQUIRED.
    G. BEARING-TYPE CONNECTIONS SHALL REQUIRE PERIODIC INSPECTION.
    H. SLIP-CRITICAL CONNECTIONS SHALL REQUIRE PERIODIC INSPECTION WHEN TURN-OF-NUT MATCHMARKING IS USED.
    I. SLIP-CRITICAL CONNECTIONS SHALL BE CONTINUOUSLY MONITORED WHEN TURN-OF-NUT MATCHMARKING IS NOT USED.
12. THE G.C. MAY AT HIS OPTION, REQUEST TO USE A FLUX CORE ARC WELDING (FCAW) PROCESS OR A METAL INERT GAS (MIG) WELDING PROCESS BY SATISFYING THE FOLLOWING REQUIREMENTS:
    A. SUBMIT WRITTEN WELDING PROCEDURES FOR THE WELDING PROCESS REQUESTED. ADDITIONALLY, THESE PROCEDURES ARE TO DESCRIBE THE QUALITY ASSURANCE/QUALITY CONTROL MEASURES TO BE TAKEN TO ENSURE COMPLIANCE WITH AWS D1.1 AND THESE CONSTRUCTION DOCUMENTS.
    B. PROVIDE WELDER QUALIFICATIONS PER NOTE 3, ABOVE.
    C. PROVIDE A CONTINUOUS FEED WIRE THAT WILL FORM WELDS OF EQUAL OR GREATER STRENGTH THAN THE E70XX LOW HYDROGEN ELECTRODES LISTED IN NOTE 2, ABOVE.
13. PIPING GREATER THAN 4"Ø SHALL BE SUPPORTED @ 10'-0" O.C. MAX. AND SHALL BE CONSIDERED IN THE DESIGN.

SUBMITTALS:

1. FURNISH ELECTRONIC COPIES OF ALL SUBMITTALS AND SHOP DRAWINGS TO ENGINEER. ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SUBMITTAL. FABRICATOR SHALL ENSURE THAT ALL PLACEMENT AND DETAIL DRAWINGS ARE CHECKED IN-HOUSE PRIOR TO SUBMITTAL. DRAWINGS NOT REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ENGINEER ARE SUBJECT TO REJECTION. ALL ELECTRONIC SUBMITTALS SHALL INCLUDE THE GENERAL CONTRACTORS REVIEW COMMENTS WHEN THEY ARE TRANSMITTED TO THE ENGINEER*.

   * REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, QUANTITIES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
2. SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:

STRUCTURAL STEEL SHOP DRAWINGS..... YES ■ NO ☐

FABRICATION SHOP CONNECTION STANDARDS..... YES ■ NO ☐

COMPONENT AND CLADDING DESIGN WIND PRESSURES (PSF)

ROOF SURFACE PRESSURES

Area	10 sf	20 sf	50 sf	100 sf	200 sf	350 sf	500 sf	1000 sf
Negative Zone 1	-31.6	-29.5	-26.8	-24.7	-22.6	-20.9	-19.9	-19.9
Negative Zone 1'	-18.2	-18.2	-18.2	-18.2	-16.0	-16.0	-16.0	-16.0
Negative Zone 2	-41.7	-39.0	-35.5	-32.8	-30.1	-28.0	-26.6	-26.6
Negative Zone 3	-56.9	-51.5	-44.4	-39.0	-33.7	-29.3	-26.6	-26.6
Positive All Zones	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Overhang Zone 1&1'	-28.6	-28.1	-27.4	-26.9	-22.6	-19.1	-16.8	-16.8
Overhang Zone 2	-38.7	-35.1	-30.4	-26.8	-23.2	-20.4	-18.5	-18.5
Overhang Zone 3	-53.8	-47.6	-39.3	-33.1	-26.8	-21.7	-18.5	-18.5

PARAPET SURFACE PRESSURES

SOLID PARAPET PRESSURE	10 sf	20 sf	50 sf	100 sf	200 sf	500 sf
CASE A: Zone 2 :	53.8	50.4	45.7	42.3	38.8	34.2
Zone 3 :	69.0	62.8	54.7	48.5	42.3	34.2
CASE B: Interior zone :	-31.8	-30.2	-28.1	-26.5	-24.8	-22.7
Corner zone :	-36.3	-33.9	-30.7	-28.3	-25.9	-22.7

WALL SURFACE PRESSURES

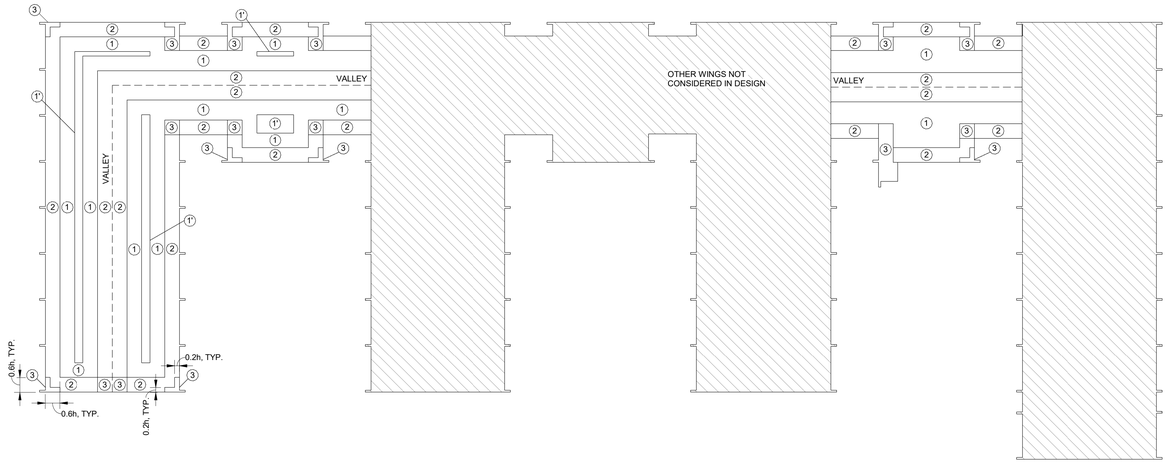
Area	10 sf	100 sf	200 sf	500 sf
NEGATIVE ZONE 4	-19.7	-17.0	-16.2	-16.0
NEGATIVE ZONE 5	-24.2	-18.9	-17.3	-16.0
POSITIVE ZONE 4 & 5	18.2	16.0	16.0	16.0

NOTES:
1) TABLE PRESSURES ARE FOR THE SQUARE FOOT (SF) TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
2) POSITIVE PRESSURES ACT TOWARD THE BUILDING. NEGATIVE PRESSURES ACT AWAY FROM THE BUILDING.
3) SEE DIAGRAMS FOR LOCATION OF ZONES.
4) PRESSURES SHOWN ARE ULTIMATE PRESSURES, MULTIPLY BY 0.6 FOR NOMINAL PRESSURES

0.6h = 7.8 ft | a = 5.2 ft

DRAWING INDEX

Sheet Number	Sheet Name
S001	PROJECT NOTES & DESIGN CRITERIA
S002	SPECIAL INSPECTIONS
S100	PLAN, SECTIONS & DETAILS



A4 / S001 **COMPONENTS AND CLADDING DIAGRAM AND LOAD TABLE**
1/32" = 1'-0"

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BAILEY AND SON ENGINEERING, INC. No. 000523 STATE OF SOUTH CAROLINA

05/11/2026

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	.	.

ISSUE:	
DATE:	
PROJECT NO:	26149
DRAWN BY:	WTF
CHECKED BY:	CLB

PROJECT NOTES & DESIGN CRITERIA

S001

F E D C B A

7 6 5 4 3 2 1

SPECIAL INSPECTION (IBC 2021)

1. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING DEPARTMENT AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING PERIODIC INSPECTIONS REQUIRED BY THE BUILDING CODE. SPECIAL INSPECTION SHALL BE PAID BY THE OWNER.
2. SPECIAL INSPECTOR(S) SHALL MEET THE QUALIFICATIONS AS STATED IN THE BUILDING CODE AND SHALL PERFORM THE DUTIES AND RESPONSIBILITIES AS OUTLINED IN THE BUILDING CODE.
3. SPECIAL INSPECTION AND TESTING SHALL MEET THE REQUIREMENTS OF IBC SECTIONS 1704 AND 1705.
4. SPECIAL INSPECTOR(S) SHALL PERFORM THE FOLLOWING:
   A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DRAWING AND SPECIFICATIONS
   B. FURNISH INSPECTION REPORTS TO THE ENGINEER OF RECORD AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTIONS OF THE CONTRACTOR FOR CORRECTION. THEN, IF NOT CORRECTED TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT.
   C. SUBMIT TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT A SIGNED FINAL REPORT STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE PROVISIONS OF THE IBC.
5. SPECIAL INSPECTION NOTES:
   A. CONTINUOUS SPECIAL INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS NOTED OTHERWISE.
   B. WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF THE FABRICATOR'S SHOP, CONTINUOUS SPECIAL INSPECTION IS DURING THE PERFORMANCE OF THE WORK EXCEPT AS ALLOWED IN IBC SECTION 1704.2.5 AND UNLESS NOTED OTHERWISE.
   C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIAL INSPECTOR(S) WITH ADVANCE NOTICE, NO LESS THAN TWO WORKING DAYS OF THE INITIATION OF ANY WORK REQUIRING SPECIAL INSPECTIONS. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION WILL BE SUBJECT TO REMOVAL. (1)

1704.2.4 REPORT REQUIREMENTS

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. SPECIAL INSPECTOR TO KEEP RECORD OF SPECIAL INSPECTIONS AND FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	X	-		1704.2.4	■	□

1704.2.5 INSPECTION OF FABRICATED ITEMS

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. WORK DONE IN FABRICATOR SHOP REQUIRES INSPECTOR UNLESS THE FABRICATOR IS REGISTERED AND APPROVED ACCORDING TO IBC 1704.2.5.1. WHERE FABRICATOR IS APPROVED, PROVIDE FABRICATOR CERTIFICATION DOCUMENT.	-	X		1704.2.5 DOCUMENT REQUIRED	■	□
2. AT COMPLETION OF FABRICATION, SUBMIT CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL STATING THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	X		1704.2.5.1 DOCUMENT REQUIRED	■	□

1704.3 STATEMENT OF SPECIAL INSPECTIONS

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. A REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL PREPARE A STATEMENT OF SPECIAL INSPECTIONS.	-	X		1704.3 (THIS DOCUMENT)	■	□

1704.4 CONTRACTOR RESPONSIBILITY

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY.	-	X		1704.4 (PAGE 4 DOCUMENT REQUIRED)	□	■

1704.5 SUBMITTALS TO THE BUILDING OFFICIAL

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
IN ADDITION TO THE SUBMITTAL REPORTS OF SPECIAL INSPECTIONS AND TESTS IN ACCORDANCE WITH SECTION 1704.2.4, REPORTS AND CERTIFICATES SHALL BE SUBMITTED BY THE OWNER OR OWNER'S AUTHORIZED AGENT TO THE BUILDING OFFICIAL FOR EACH OF THE FOLLOWING.	-	X		1704.5	■	□
1. CERTIFICATES OF COMPLIANCE FOR THE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES ON THE PREMISES OF A REGISTERED AND APPROVAL FABRICATOR IN ACCORDANCE WITH SECTION 1704.2.5.1	-	X	SEC. 1704.2.5.1 (FABRICATOR)	1704.5	■	□
2. CERTIFICATES OF COMPLIANCE FOR THE SEISMIC QUALIFICATION OF NONSTRUCTURAL COMPONENTS, SUPPORTS AND ATTACHMENTS IN ACCORDANCE WITH SECTION 1705.14.2	-	X	SEC. 1705.13.2	1704.5	■	□
3. CERTIFICATES OF COMPLIANCE FOR DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH SECTION 1705.14.3	-	-	SEC. 1705.13.3	1704.5 AND 1704.3.2	□	■
4. REPORTS OF PRECONSTRUCTION TESTS FOR SHOTCRETE IN ACCORDANCE WITH ACI 318	-	-	SEC. 1908.5	1704.5	□	■
5. CERTIFICATES OF COMPLIANCE FOR OPEN WEB STEEL JOIST AND JOIST GIRDERS IN ACCORDANCE WITH SECTION 2207.5	-	-	SEC. 2207.5	1704.5	□	■
6. REPORTS OF MATERIAL PROPERTIES VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF AWS D1.4 FOR WELDABILITY AS SPECIFIED IN SECTION 26.6.4 OF ACI 318 FOR REINFORCING BAR IN CONCRETE COMPLYING WITH A STANDARD OTHER THAN ASTM A706 THAT ARE TO BE WELDED.	-	-	AWS D1.4 SEC. 26.6.4 OF ACI 318 ASTM A706	1704.5	□	■
7. REPORTS OF MILL TESTS IN ACCORDANCE WITH SECTION 20.2.2.5 OF ACI 318 FOR REINFORCING BARS COMPLYING WITH ASTM A615 AND USED TO RESIST EARTHQUAKE-INDUCED FLEXURAL OR AXIAL FORCES IN THE SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS OR COUPLING BEAMS CONNECTING SPECIAL STRUCTURAL WALLS OF SEISMIC FORCE-RESISTING SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E, OR F.	-	-	SEC. 20.2.2.5 OF ACI 318 ASTM A615	1704.5	■	□

1704.6 SPECIAL INSPECTIONS FOR STRUCTURAL OBSERVATION

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
THE OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATION. PRIOR TO COMMENCEMENT OF OBSERVATION, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT IDENTIFYING FREQUENCY AND EXTENT OF STRUCTURAL OBSERVATIONS.	-	-		1704.6.1	□	■

1705.2.1 STEEL CONSTRUCTION INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.	-	X	AISC 360	1705.2.1	■	□

1705.2.2 TO 1705.2.4 STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.			ASTM STANDARDS	1705.2.1	□	■
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	AISC 360, SEC. A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS	1705.2	□	■
b. MANUFACTURER'S CERTIFICATE TEST REPORTS.	-	X		1705.2	□	■
2. INSPECTION OF WELDING.						
a. COLD-FORMED STEEL DECK.						
a (1). FLOOR AND ROOF DECK WELDS.	-	X	AWS D1.3	1705.2	□	■
b. REINFORCING STEEL.		-		1705.2		
b (1). VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.		-	AWS D1.4 ACI 318: 3.5.2	1705.2	□	■
b (2). REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES.	-	-	AWS D1.4 ACI 318: 3.5.2	1705.2	□	■
b (3). SHEAR REINFORCEMENT.	-	-	AWS D1.4 ACI 318: 3.5.2	1705.2	□	■
b (4). OTHER REINFORCING STEEL.	-	-	AWS D1.4 ACI 318: 3.5.2	1705.2	□	■

TABLE 1705.2.3 INSPECTION OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. INSTALLATION OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS.				TABLE 1705.2.3		
a. END CONNECTIONS - WELDING OR BOLTED.	-	X	SJI SPECIFICATION LISTED IN SEC. 2207.1	TABLE 1705.2.3	□	■
b. BRIDGING - HORIZONTAL OR DIAGONAL.				TABLE 1705.2.3		
b (1). STANDARD BRIDGING.	-	X	SJI SPECIFICATION LISTED IN SEC. 2207.1	TABLE 1705.2.3	□	■
b (2). BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SEC. 2207.1.	-	X		TABLE 1705.2.3	□	■

TABLE 1705.3 REQUIRED VERIFICATION AND SPECIAL INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE	REQUIRED: YES	NO
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3, & 35	1908.4, TABLE 1705.3	□	■
2. REINFORCING BAR WELDING						
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	X	AWS D1.4 ASI 318: Ch. 26.6.4	1905, TABLE 1705.3	□	■
b. INSPECT SINGLE-PASS WELDS, MAXIMUM 5/16"	-	X				
c. INSPECT ALL OTHER WELDS	X	-				
3. INSPECTION OF ANCHORS CAST IN CONCRETE.	-	X	ACI 318: Ch. 17.8.2	1905, TABLE 1705.3	□	■
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.						
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION.	X	-	ACI 318: Ch. 17.8.2.4	TABLE 1705.3	□	■
b. MECH. ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a.	-	X	ACI 318: Ch. 17.8.2.	TABLE 1705.3	□	■
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3, TABLE 1705.3	□	■
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: Ch. 26.5 & 26.12	1908.10, TABLE 1705.3	□	■
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: Ch. 26.5	1908.6 1908.7 & 1908.8, TABLE 1705.3	□	■
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: Ch. 26.5.3 - 26.5.5	1908.9, TABLE 1705.3	□	■
9. INSPECTION OF PRE-STRESSED CONCRETE.						
a. APPLICATION OF PRE-STRESSING FORCE.	X	-	ACI 318: Ch. 26.10	TABLE 1705.3	□	■
b. GROUTING OF BONDED PRE-STRESSING TENDONS.	X	-				
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: Ch. 26.9	TABLE 1705.3	□	■
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE & HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:			ACI 318: Ch. 26.13.1.3			
a. INSTALLATION OF THE EMBEDDED PARTS	X	-	ACI 318: Ch. 26.13	TABLE 1705.3	□	■
b. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS	X	-	ACI 550.5	TABLE 1705.3	□	■
c. COMPLETION OF CONNECTIONS IN THE FIELD.	X	-	ACI 318: Ch. 26.13	TABLE 1705.3	□	■
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.	-	X	ACI 318: Ch. 26.11.2	TABLE 1705.3	□	■
13. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: Ch. 26.11.2	TABLE 1705.3	□	■
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSION OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: Ch. 26.11.1.2(b)	TABLE 1705.3	□	■

1705.4 MASONRY CONSTRUCTION SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
SPECIAL INSPECTIONS AND TESTS MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402 AND TMS 602.AND VERIFIED PER STANDARDS.	-	X	TMS 402 & 602	1705.4	□	■
1. EMPIRICALLY DESIGN MASONRY, GLASS UNIT MASONRY AND MASONRY VENEER IN RISK CATEGORY IV.	-	-	SECTION 2109, 2110 OR Ch. 14, SECTION 1604.5, SHALL COMPLY WITH TMS 602 LEVEL 2	1705.4.1	□	■
2. VERTICAL MASONRY FOUNDATION ELEMENTS.	-	-	IBC SEC. 1705.4	1705.4.2	□	■
3. PER TABLE 3.1 IN TMS 402 CODE, PROVIDE LEVEL 2 QUALITY ASSURANCE.	-	X	TMS 402	1705.4	□	■
4. TESTING AGENCY TO MEET AT LEAST THE MINIMUM VERIFICATION REQUIREMENTS FOR LEVEL 2 QUALITY ASSURANCE LISTED IN TABLES 3 AND 4 OF SECTION 1.6 OF TMS 602 SPECIFICATION.	-	X	TMS 602	1705.4	□	■

1705.5 WOOD CONSTRUCTION SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. HIGH-LOAD DIAPHRAGMS	-	-	IBC SEC. 2306.2, SEC. 1704.2, APPROVED CONSTRUCTION DRAWINGS	1705.5.1	□	■
2. METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER	-	-	APPROVED TRUSS SUBMITTAL PACKAGE (BRACING)	1705.5.2	□	■

TABLE 1705.5.3 REQUIRED SPECIAL INSPECTION OF MASS TIMBER CONSTRUCTION

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. INSPECTION OF ANCHORAGE AND CONNECTIONS OF MASS TIMBER CONSTRUCTION TO DEEP TIMBER FOUNDATION SYSTEMS.	-	X		TABLE 1705.5.3	□	■
2. INSPECT ERECTION OF MASS TIMBER CONSTRUCTION.	-	X		TABLE 1705.5.3	□	■
3.INSPECTION OF CONNECTIONS WHERE INSTALLATION METHODS ARE REQUIRED TO MEET LOADS.	-	X		TABLE 1705.5.3	□	■
THREADED FASTENERS: VERIFY USE OF PROPER INSTALLATION EQUIPMENT	-	X		TABLE 1705.5.3	□	■
THREADED FASTENERS: VERIFY USE OF PRE-DRILLED HOLES WHERE REQUIRED.	-	X		TABLE 1705.5.3	□	■
THREADED FASTENERS: INSPECT SCREWS, INCLUDING DIA. LENGHT, HEAD TYP, SPACING, INSTALLATION ANGLE AND DEPTH.	-	X		TABLE 1705.5.3	□	■
ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARD INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS.	-	X		TABLE 1705.5.3	□	■
ADHESIVE ANCHORS NOT DEFINED IN PREV. CELL	-	X		TABLE 1705.5.3	□	■
BOLTED CONNECTIONS.	-	X		TABLE 1705.5.3	□	■
CONCEALED CONNECTIONS.	-	X		TABLE 1705.5.3	□	■

TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X		TABLE 1705.6	□	■
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X		TABLE 1705.6	□	■
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X		TABLE 1705.6	□	■
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT & COMPACTION OF COMPACTED FILL.	X	-		TABLE 1705.6	□	■
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUB-GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X		TABLE 1705.6	□	■

TABLE 1705.7 DRIVEN DEEP FOUNDATION SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. VERIFY ELEMENT MATERIALS, SIZE AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	-		TABLE 1705.7	□	■
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	-		TABLE 1705.7	□	■
3. INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-		TABLE 1705.7	□	■
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	-		TABLE 1705.7	□	■
5. FOR STEEL ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2.	IN ACCORDANCE WITH SECTION 1705.2			SEC. 1705.2 & TABLE 1705.7	□	■
6. FOR CONCRETE ELEMENTS AND CONCRETE FILLED ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	IN ACCORDANCE WITH SECTION 1705.3			SEC. 1705.3 & TABLE 1705.7	□	■
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	-	-		1705.7	□	■

TABLE 1705.8 CAST-IN-PLACE DEEP FOUNDATION SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-		TABLE 1705.8	□	■
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS; CONFIRM ELEMENT DIAMETER, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	-		TABLE 1705.8	□	■
3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	IN ACCORDANCE WITH SECTION 1705.3			SEC. 1705.3 & TABLE 1705.8	□	■

1705.9 HELICAL PILE SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. INSTALLATION OF HELICAL PILE FOUNDATIONS	X	-	APPROVED GEOTECHNICAL REPORT AND REGISTERED DESIGN PROFESSIONAL	1705.9	□	■

1705.11 SPECIAL INSPECTION FOR FABRICATED ITEMS

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. SPECIAL INSPECTIONS FOR FABRICATED ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704.2.5	-	X		SEC. 1704.2.5 & 1705.11	■	□

1705.12 SPECIAL INSPECTIONS FOR WIND RESISTANCE

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
WIND REQUIREMENTS FOR BUILDINGS AND STRUCTURES PER 1705.11				1705.12	□	■
1. STRUCTURAL WOOD				1705.12.1		
a. FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM	X	-		1705.12.1	□	■
b. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS.	-	X		1705.12.1	□	■
2. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION.	-	X		1705.12.2	□	■
3. WIND-RESISTING COMPONENTS. 1. ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS.	-	X		1705.12.3	□	■
2. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	-	X			□	■

1705.13 SPECIAL INSPECTION FOR SEISMIC RESISTANCE

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS	PERIODIC	REFERENCED STANDARDS	IBC REFERENCE	REQUIRED: YES	NO
1. STRUCTURAL STEEL SEISMIC RESISTANCE SHALL BE IN ACCORDANCE WITH SECTION 1705.12.1.1 OR 1705.12.1.2 AS APPLICABLE			SEC. 1705.12.1.1 SEC. 1705.12.1.2	1705.13.1		
a. SEISMIC FORCE-RESISTING SYSTEMS OF STRUCTURAL STEEL IN THE SEISMIC FORCE-RESISTING SYSTEMS OF BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE OF REQUIREMENTS OF AISC 341	-	-	AISC 341	1705.13.1.1	□	■
b. STRUCTURAL STEEL ELEMENTS IN THE SEISMIC FORCE RESISTING SYSTEMS OF BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F OTHER THAN THOSE COVERED IN SECTION 1705.12.1.1, INCLUDING STRUTS, COLLECTORS, CHORDS AND FOUNDATION ELEMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 314.	-	-	SEC. 1705.12.1.1 AISC 341	1705.13.1.2	□	■
2. STRUCTURAL WOOD FOR THE SEISMIC FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F .				1705.13.2		
a. STRUCTURAL WOOD FIELD GLUING OPERATIONS OF ELEMENTS OF SEISMIC FORCE-RESISTING SYSTEM.	X	-		1705.13.2	□	■
b. STRUCTURAL WOOD FASTENING FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD DOWNS.	X	-		1705.13.2	□	■
3. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION FOR SEISMIC FORCE RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F.				1705.13.3		
a. FOR WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM.	-	X		1705.13.3	□	■
b. FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE- RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.	-	X		1705.13.3	□	■
4. DESIGNATED SEISMIC SYSTEM VERIFICATIONS FOR STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F, THE SPECIAL INSPECTOR SHALL EXAMINE DESIGNATED SEISMIC SYSTEMS REQUIRING SEISMIC QUALIFICATION IN ACCORDANCE WITH SECTION 13.2.2 OF ASCE 7 AND VERIFY THAT THE LABEL, ANCHORAGE AND MOUNTING CONFORM TO THE CERTIFICATE OF COMPLIANCE.	-	-	SEC. 13.2.2 ASCE 7	1705.13.4	□	■
5. ARCHITECTURAL COMPONENTS IN D, E, OR F.	-	X		1705.13.5	□	■
5.1. ACCESS FLOORS IN D, E, OR F.	-	X		1705.13.5.1	□	■
6. PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS.				1705.13.6		
a. ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS, IN C, D, E OR F.	-	X		1705.13.6	□	■
b. ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT IN E OR F.	-	X		1705.13.6	□	■
c. INSTALLATION AND ANCHORING OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS AND ASSOCIATED MECHANICAL UNITS IN C, D, E OR F.	-	X		1705.13.6	□	■
d. INSTALLATION OF HVAC DUCTWORK THAT WILL CARRY HAZARDOUS MATERIALS IN C, D, E OR F.	-	X		1705.13.6	□	■
e. INSTALLATION OF VIBRATION ISOLATION SYSTEMS WITH NOMINAL CLEARANCE OF 0.25 INCHES OR LESS BETWEEN EQUIPMENT SUPPORT FRAME AND RESTRAINT WHERE INDICATED ON CONSTRUCTION DOCUMENTS.	-	X		1705.13.6	□	■
f. INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING DUCT WORK, PIPING SYSTEMS, AND STRUCTURAL SUPPORTS, WHERE AUTOMATIC FIRE SPRINKLER SYSTEMS ARE INSTALLED IN C, D, E, OR F.	-	X		1705.13.6	□	■
7. STORAGE RACK DURING ANCHORING STORAGE RACKS 8 FEET OR GREATER IN HEIGHT IN D, E, OR F AS REQ'D BY TABLE 1705.13.7	-	-		1705.13.7	□	■
8. SEISMIC ISOLATION SYSTEM IN B, C, D, E OR F	-	X		1705.13.8	□	■
9. COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES IN THE SEISMIC FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F.	-	X		1705.13.9	□	■

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SOUTH CAROLINA BAILEY AND SON ENGINEERING, INC. No. 000523 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED ENGINEER No. 11372 COLIN LOWRANCE BAILEY 05/28/2026

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

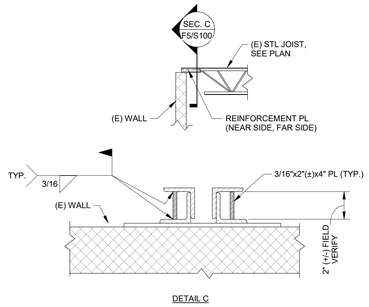
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

ISSUE:	OSE COMMENTS
DATE:	05/28/26
PROJECT NO:	26149
DRAWN BY:	WTF
CHECKED BY:	CLB

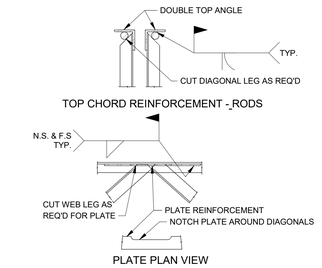
SPECIAL INSPECTIONS

S002



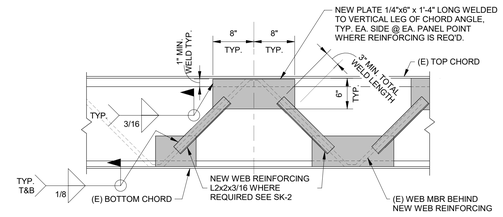
F5 / S100 JOIST SEAT REINFORCEMENT DETAIL

1" = 1'-0"



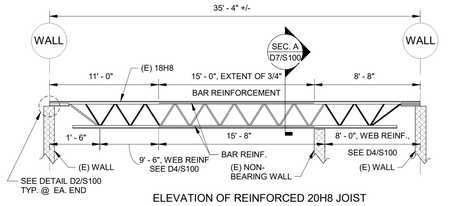
F4 / S100 CHORD REINFORCEMENT

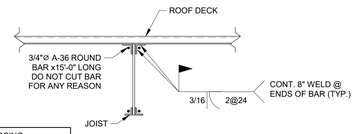
1" = 1'-0"



F2 / S100 JOIST REINFORCING DETAIL

1" = 1'-0"

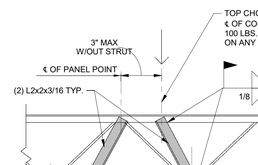




NOTE: PRIOR TO REINFORCING INSTALLATION, ALL NON-PERMANENT LOAD ON JOIST SHALL BE REMOVED AND, IF POSSIBLE, JOIST SHALL BE SHORED UNTIL REINFORCING IS IN PLACE.

D7 / S100 REINFORCED JOIST ELEVATION & DETAIL

NTS

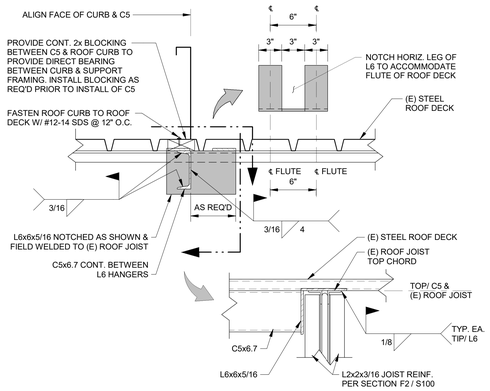


NOTES:

1. L2x2x3/16 ANGLES ARE REQ'D WHEN LOADS ARE LOCATED MORE THAN 3" FROM THE PANEL POINT. THE PANEL POINT IS THE CENTER OF THE CONNECTION WHERE THE WEB MEMBERS CONNECT TO THE CHORD MEMBERS.
2. TAKE CARE NOT TO OVERHEAT BASE MATERIAL (JOIST CHORDS). OVERHEATING CAN CAUSE YIELDING AND/OR FAILURE OF THE JOIST.

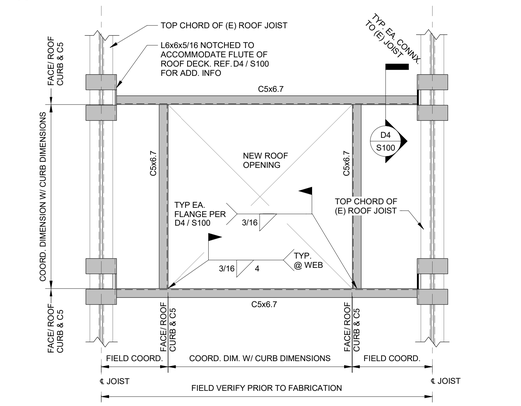
D5 / S100 JOIST STRUT DETAIL

1" = 1'-0"



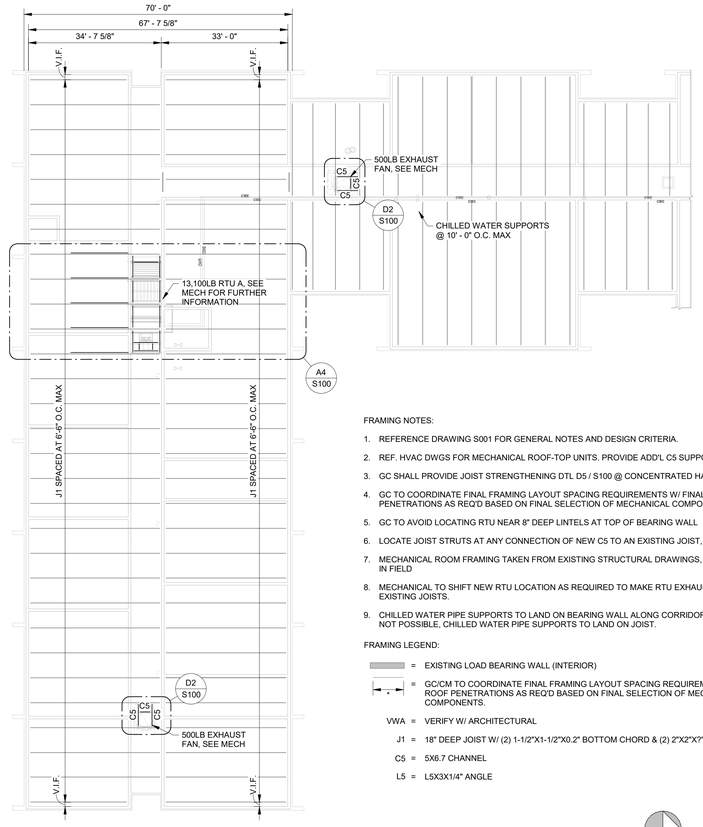
D4 / S100 DECK SUPPORT FRAMING CONNECTION TO JOISTS

1 1/2" = 1'-0"



D2 / S100 DECK SUPPORT FRAMING W/ NEW OPENING

1" = 1'-0"



FRAMING NOTES:

1. REFERENCE DRAWING S001 FOR GENERAL NOTES AND DESIGN CRITERIA.
2. REF. HVAC DWGS FOR MECHANICAL ROOF-TOP UNITS. PROVIDE ADD'L C5 SUPPORT FRAMING AS REQ'D.
3. GC SHALL PROVIDE JOIST STRENGTHENING DTL D5 / S100 @ CONCENTRATED HANGING LOADS FROM JOIST.
4. GC TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL SLAB/ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.
5. GC TO AVOID LOCATING RTU NEAR 8" DEEP LINTELS AT TOP OF BEARING WALL
6. LOCATE JOIST STRUTS AT ANY CONNECTION OF NEW C5 TO AN EXISTING JOIST, SEE DETAIL C2/S100
7. MECHANICAL ROOM FRAMING TAKEN FROM EXISTING STRUCTURAL DRAWINGS, VERIFY EXISTING OPENINGS IN FIELD
8. MECHANICAL TO SHIFT NEW RTU LOCATION AS REQUIRED TO MAKE RTU EXHAUST AND RTO INTAKE AVOID EXISTING JOISTS.
9. CHILLED WATER PIPE SUPPORTS TO LAND ON BEARING WALL ALONG CORRIDOR WHERE POSSIBLE. WHEN NOT POSSIBLE, CHILLED WATER PIPE SUPPORTS TO LAND ON JOIST.

FRAMING LEGEND:

= EXISTING LOAD BEARING WALL (INTERIOR)

= GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

VWA = VERIFY W/ ARCHITECTURAL

J1 = 18" DEEP JOIST W/ (2) 1-1/2"X1-1/2"X0.2" BOTTOM CHORD & (2) 2"X2"X?" TOP CHORD

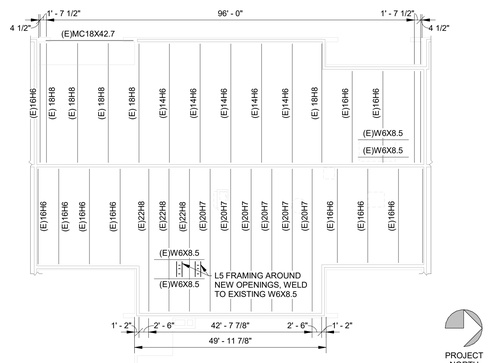
C5 = 5X6.7 CHANNEL

L5 = L5X3X1/4" ANGLE

PROJECT NORTH

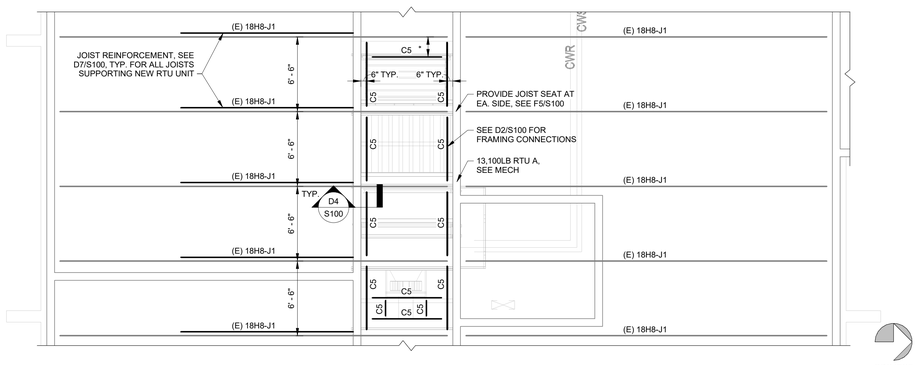
A7 / S100 EXISTING A WING ROOF FRAMING PLAN

1/16" = 1'-0"



C4 / S100 PARTIAL ROOF FRAMING PLAN AT MECHANICAL ROOM

1/16" = 1'-0"



A4 / S100 PARTIAL ROOF FRAMING PLAN AT NEW RTU

3/16" = 1'-0"

A1 / S100 KEY PLAN

1" = 160'-0"

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BAILEY AND SON ENGINEERING, INC. No. 000523 CERTIFICATE OF AUTHORIZATION

05/11/2026

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	.	.

ISSUE:	SCHEMATIC
DATE:	5/1/26
PROJECT NO:	26149
DRAWN BY:	WTF
CHECKED BY:	CLB

PLAN, SECTIONS & DETAILS

S100

F E D C B A

7 6 5 4 3 2 1

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	90.1 (2007) Standard
Project Title:	SCC Powers A-Wing
Location:	Spartanburg, South Carolina
Climate Zone:	3a
Project Type:	Alteration

Construction Site:
800 Brisack Road
Spart, South Carolina 29303

Owner/Agent:
Spartanburg Community College
800 Brisack Road
Spartanburg, South Carolina 29303

Designer/Contractor:
Shane Bulman
Crow & Bulman Engineering
800 East Main St
Spartanburg, South Carolina 29302
864-585-9903
sbulman@cbengr.com

Mechanical Systems List

Quantity System Type & Description

1 RTU-A
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 680 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 702 kBtu/h
No minimum efficiency requirement applies
Fan System: RTU-A -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Multi-Zone VAV, 22000 CFM, 40.0 motor nameplate hp, 27.9 design brake hp (27.9 max. BHP)

SYSTEM VERIFICATION REQUIRED.

1 EH-1 Electric Heater
Heating: 1 each - Unit Heater, Electric, Capacity = 17 kBtu/h
No minimum efficiency requirement applies

SYSTEM VERIFICATION REQUIRED.

2 Boiler
Heating: Hot Water Boiler, Capacity 4000 kBtu/h, Gas
Proposed Efficiency: 94.10 % Ec, Required Efficiency: 82.00 % Ec

PLANT COMPLIANCE REQUIRED.

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2007) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Shane Bulman (Project Engineer) — Name - Title
Shane Bulman — Signature
5/1/2026 — Date

Project Title: SCC Powers A-Wing
Data filename:
Report date: 05/11/26
Page 1 of 1

GENERAL NOTES:

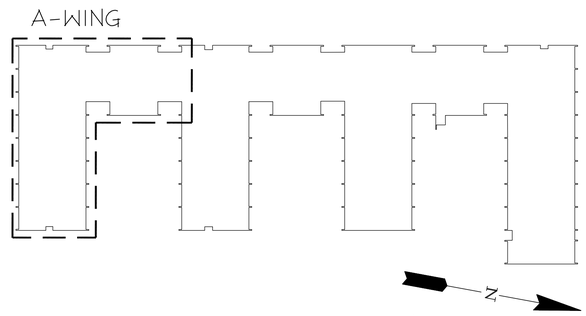
1) FOR NEW TEMPERATURE SENSORS, HUMIDITY SENSORS, AND CARBON DIOXIDE SENSORS INSTALLED ON MASONRY WALLS, EXPOSED WIREMOLD CONDUIT AND WALL BOXES SHALL BE USED. SENSORS ON STUD WALLS SHALL BE INSTALLED WITH CONDUIT INSIDE THE WALL. (FIELD COORDINATE CUTTING & PATCHING OF DRYWALL WITH G.C.)
2) PROVIDE ACCESS DOORS AT EACH MOTORIZED DAMPER AND EACH FIRE DAMPER NOT ACCESSIBLE FROM A GRILLE; SEE SPECS FOR SIZE.
3) PIPE CONDENSATE DRAINS TO NEAREST FLOOR DRAIN, ROOF DRAIN, OR HUB DRAIN.
4) PROVIDE 27" MIN CLEARANCE AT FILTER HOUSINGS FOR FILTER REMOVAL
5) SLOPE ALL CONDENSATE LINES MIN. 1/8" PER FOOT.
6) MINIMUM BRANCH CONDENSATE LINE SIZE SHALL BE 1" UNLESS NOTED OTHERWISE ON PLANS.
7) MAXIMUM LENGTH OF FLEXIBLE DUCTWORK AT END OF BRANCH DUCTWORK SHALL BE 6'-0"
8) DUCTWORK COORDINATION:
   - FIELD COORDINATE ROUTING OF DUCTWORK PRIOR TO DUCTWORK FABRICATION.
   - WHERE DUCTWORK IS ROUTED THROUGH OR BETWEEN JOISTS, CONSTRUCT DUCT SECTION LENGTHS TO ALLOW INSTALLATION IN TRUSSES.
   - COORDINATE DUCTWORK ROUTED THROUGH (OR BETWEEN) JOISTS WITH EXISTING CONDITIONS. COORDINATE WITH STRUCTURAL ENGINEER WHERE EXISTING JOIST CROSS BRACING MUST BE MODIFIED.

SHEET TITLES

M000	HVAC NOTES & SYMBOLS
MD101	HVAC DEMOLITION PLAN
M101	HVAC FLOOR PLAN
M201	HVAC PIPING PLAN
M301	MECHANICAL ROOM PLANS
M401	HVAC ROOF PLAN
M501	HVAC SCHEDULES & DETAILS
M502	HVAC DETAILS
M503	HVAC SCHEDULES & DETAILS

SYMBOLS

HCWS	HOT & CHILLED WATER SUPPLY
HCWR	HOT & CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
D	DRAIN
	GATE VALVE
	CHECK VALVE
	GLOBE VALVE
	BALL VALVE (2" AND SMALLER)
	CONTROL VALVE
	BUTTERFLY VALVE (2-1/2" AND LARGER)
	REDUCER
	UNION
	THERMOMETER WITH WELL
T	THERMOSTAT
H	HUMIDISTAT
C	CO_2 SENSOR
	SUPPLY AIR (S.A.)
	RETURN AIR (R.A.)
E	EXHAUST AIR
R	RELIEF AIR
AD	ACCESS DOOR
FD	FIRE DAMPER
V	VENT
	STRAINER
TP	TEMP/PRESS SENSING PORT
M	MOTORIZED DAMPER
	TRIPLE DUTY VALVE
	FLEXIBLE COUPLING
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	AUTO FLOW VALVE
DP	DIFFERENTIAL PRESS. SENSOR
SP	STATIC PRESSURE SENSOR
FO	FLAT OVAL
O/H	OVERHEAD
VD	VOLUME DAMPER
CO	CLEAN OUT
	DUAL WALL SPIRAL DUCTWORK
	DUCTWORK WITH SOUND TREATMENT WRAP (SEE SPECIFICATIONS.)
	TWO HOUR FIRE BARRIER
	FOUR HOUR FIRE WALL



KEY PLAN

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 19785 SHANE T. BULMAN 5/11/2026

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CONSULTANT

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

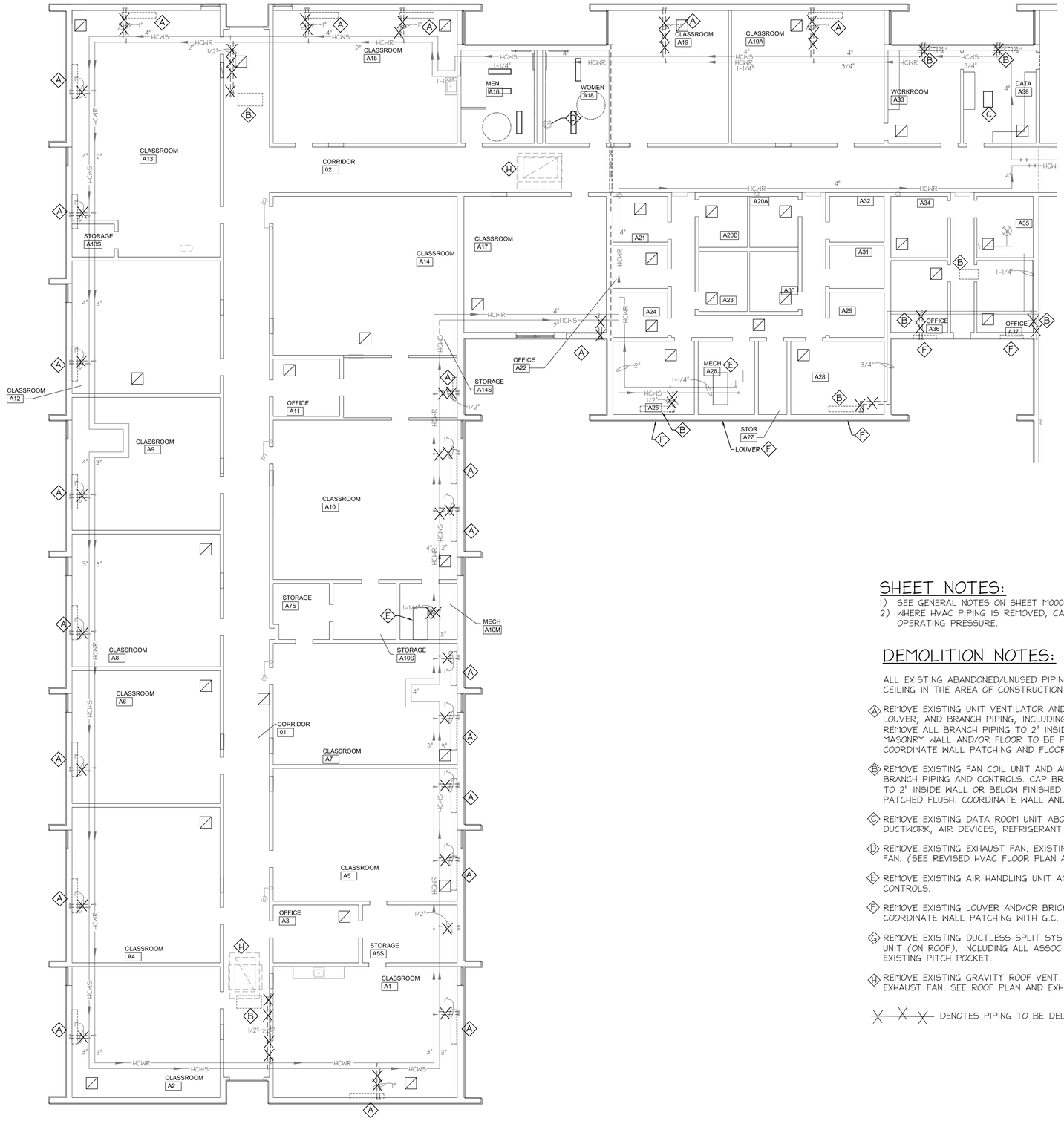
ISSUE:	OSE CD
DATE:	5/1/2026
PROJECT NO:	26010
DRAWN BY:	STB
CHECKED BY:	STB

HVAC NOTES & SCHEDULES

M000

7 6 5 4 3 2 1

F E D C B A



SHEET NOTES:

1) SEE GENERAL NOTES ON SHEET M000.
2) WHERE HVAC PIPING IS REMOVED, CAP ENDS OF PIPING TO WITHSTAND SYSTEM OPERATING PRESSURE.

DEMOLITION NOTES:

ALL EXISTING ABANDONED/UNUSED PIPING, DUCTWORK, AND CONTROL WIRING ABOVE THE CEILING IN THE AREA OF CONSTRUCTION TO BE REMOVED AS PART OF THIS CONTRACT.

(A) REMOVE EXISTING UNIT VENTILATOR AND ALL ASSOCIATED CONTROLS, DUCTWORK, WALL LOUVER, AND BRANCH PIPING, INCLUDING DRAIN PIPING. CAP BRANCH PIPING AT MAIN. REMOVE ALL BRANCH PIPING TO 2" INSIDE WALL OR BELOW FINISHED FLOOR TO ALLOW MASONRY WALL AND/OR FLOOR TO BE PATCHED FLUSH. COORDINATE WALL PATCHING AND FLOOR PATCHING WITH G.C.

(B) REMOVE EXISTING FAN COIL UNIT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, LOUVERS, BRANCH PIPING AND CONTROLS. CAP BRANCH PIPING AT MAIN. REMOVE ALL BRANCH PIPING TO 2" INSIDE WALL OR BELOW FINISHED FLOOR TO ALLOW MASONRY WALL OR FLOOR TO BE PATCHED FLUSH. COORDINATE WALL AND FLOOR PATCHING WITH G.C.

(C) REMOVE EXISTING DATA ROOM UNIT ABOVE CEILING, INCLUDING ALL ASSOCIATED CONTROLS, DUCTWORK, AIR DEVICES, REFRIGERANT PIPING, AND DRAIN PIPING.

(D) REMOVE EXISTING EXHAUST FAN. EXISTING ROOF CURB TO BE RE-USED WITH NEW EXHAUST FAN. (SEE REVISED HVAC FLOOR PLAN AND ROOF PLAN.)

(E) REMOVE EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, AND CONTROLS.

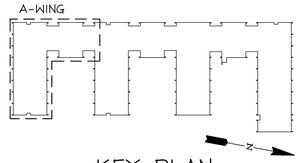
(F) REMOVE EXISTING LOUVER AND/OR BRICK VENT AND ALL ASSOCIATED DUCTWORK. COORDINATE WALL PATCHING WITH G.C.

(G) REMOVE EXISTING DUCTLESS SPLIT SYSTEM INDOOR UNIT (WALL MOUNTED) & CONDENSING UNIT (ON ROOF), INCLUDING ALL ASSOCIATED CONTROLS, WIRING, AND ACCESSORIES. CAP EXISTING PITCH POCKET.

(H) REMOVE EXISTING GRAVITY ROOF VENT. EXISTING ROOF CURB TO BE REUSED WITH NEW EXHAUST FAN. SEE ROOF PLAN AND EXHAUST FAN SCHEDULE

DENOTES PIPING TO BE DELETED

A-WING



KEY PLAN

HVAC DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16'

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 19785 5/1/2026 STANLEY T. BULMAN

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CONSULTANT

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

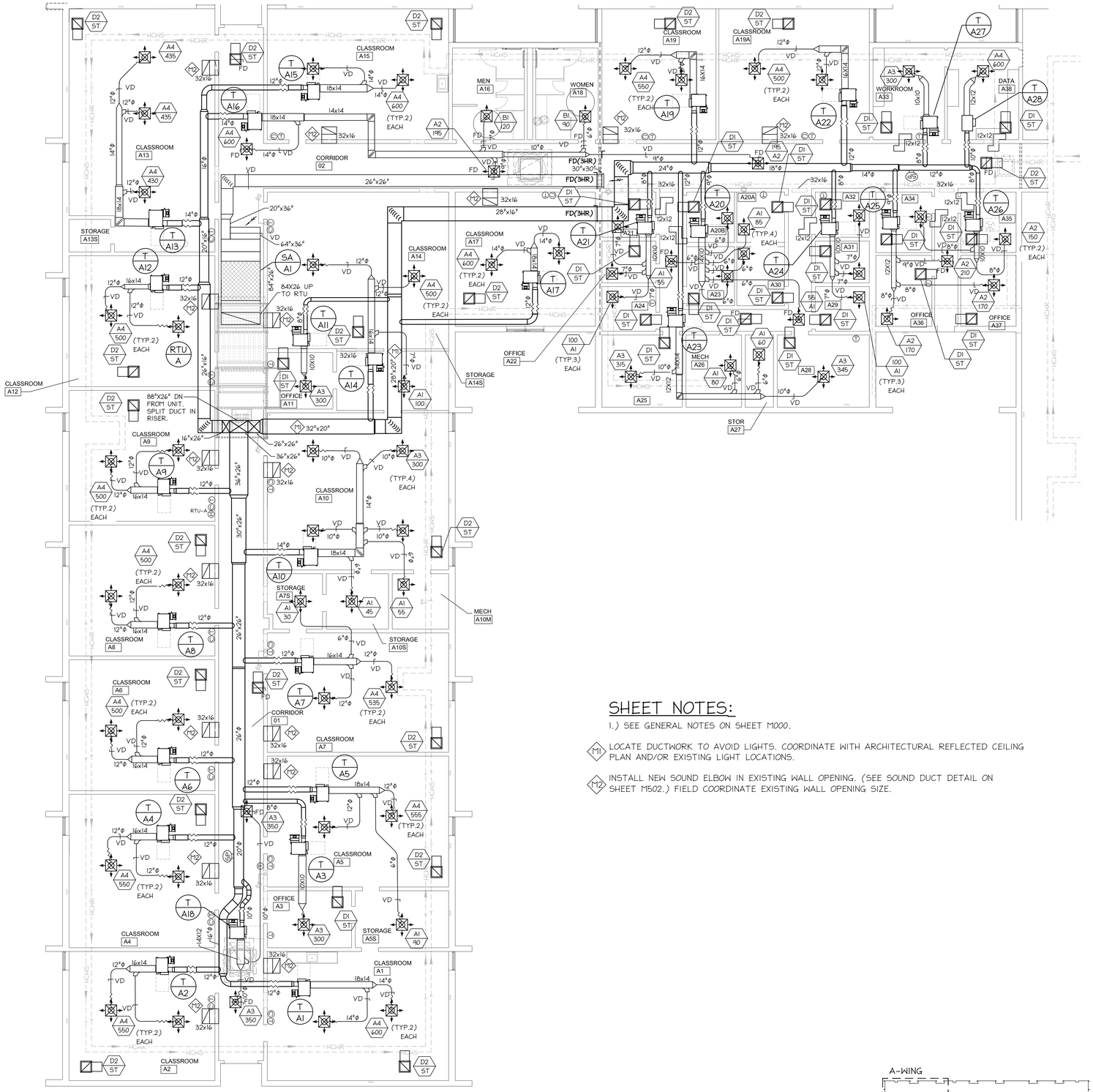
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

ISSUE:	OSE CD
DATE:	5/1/2026
PROJECT NO:	26010
DRAWN BY:	STB
CHECKED BY:	STB

HVAC DEMOLITION PLAN

MD101



SHEET NOTES:

1.) SEE GENERAL NOTES ON SHEET M000.

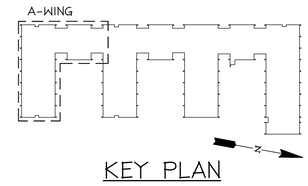
M1 LOCATE DUCTWORK TO AVOID LIGHTS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN AND/OR EXISTING LIGHT LOCATIONS.

M2 INSTALL NEW SOUND ELBOW IN EXISTING WALL OPENING. (SEE SOUND DUCT DETAIL ON SHEET M502.) FIELD COORDINATE EXISTING WALL OPENING SIZE.

HVAC FLOOR PLAN

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16'



KEY PLAN

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 19785 STATE OF SOUTH CAROLINA STANLEY T. BULMAN 5/1/2026

SOUTH CAROLINA CROW & BULMAN ENGINEERING NO. C00486 CERTIFICATE OF AUTHORIZATION

CONSULTANT

CROW & BULMAN ENGINEERING, INC.
100 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9801, WWW.CBENGR.COM

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

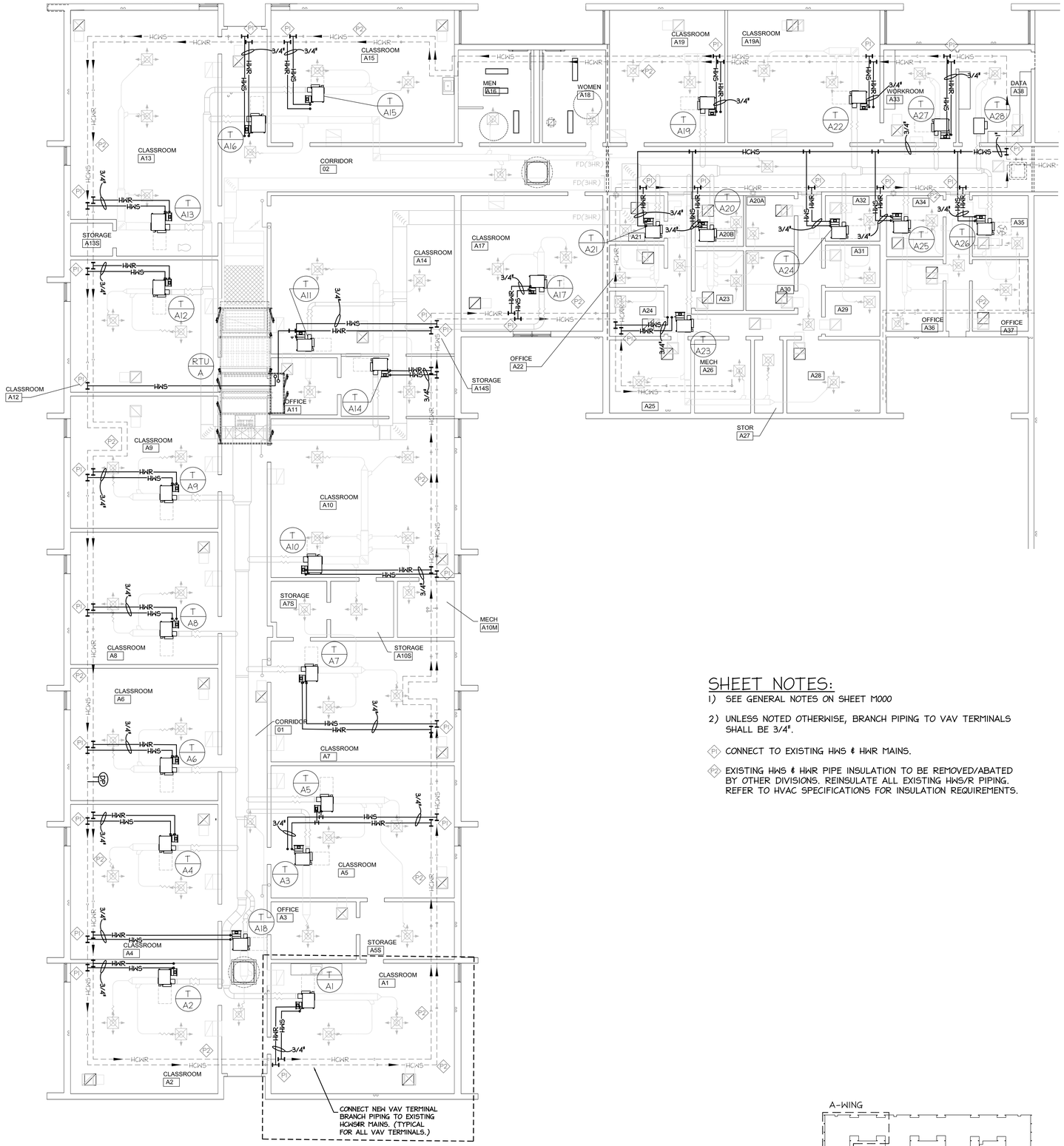
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

ISSUE:	OSE CD
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PROJECT NO:	26010
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HVAC FLOOR PLAN

M101



HVAC PIPING PLAN

SCALE: 1/8" = 1'-0"

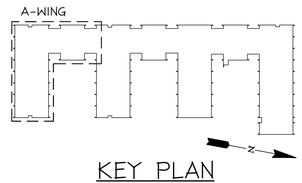
0 2' 4' 8' 16'

SHEET NOTES:

1) SEE GENERAL NOTES ON SHEET M000
2) UNLESS NOTED OTHERWISE, BRANCH PIPING TO VAV TERMINALS SHALL BE 3/4".

(P1) CONNECT TO EXISTING HWS & HWR MAINS.

(P2) EXISTING HWS & HWR PIPE INSULATION TO BE REMOVED/ABATED BY OTHER DIVISIONS. REINSULATE ALL EXISTING HWS/R PIPING. REFER TO HVAC SPECIFICATIONS FOR INSULATION REQUIREMENTS.



KEY PLAN

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 19785 5/11/2026 STANLEY T. BULMAN

SOUTH CAROLINA CROW & BULMAN ENGINEERING NO. C00486 CERTIFICATE OF AUTHORIZATION

CONSULTANT

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

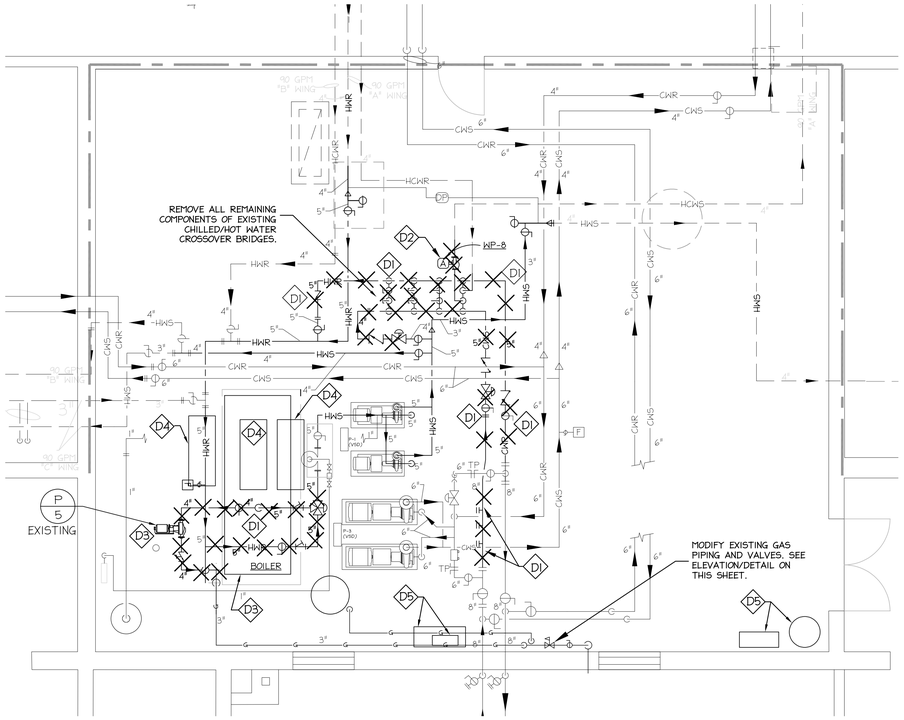
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DATE:	5/1/2026
PROJECT NO:	26010
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HVAC PIPING PLAN

M201

F E D C B A

7 6 5 4 3 2 1



ENLARGED MECHANICAL ROOM DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

DEMOLITION NOTES:

D1 REMOVE EXISTING PIPING

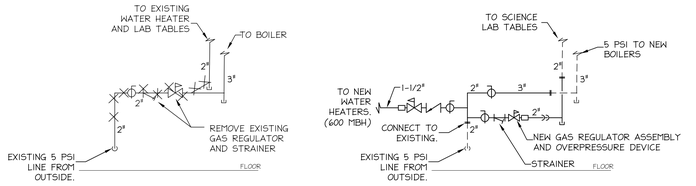
D2 REMOVE EXISTING A-WING HOT/CHILLED WATER PUMP AND ALL ASSOCATED PIPE TRIM AND CONTROLS

D3 REMOVE EXISTING BOILER, BOILER CONCRETE HOUSEKEEPING PAD, BOILER PUMP, AND ASSOCIATED VENT PIPING. SEE PIPING PLAN FOR GAS PIPING TO BE REUSED AND RECONFIGURED FOR NEW BOILERS.
PROVIDE CAP AT VENT OPENING IN EXISTING MASONRY CHIMNEY.

D4 REMOVE EXISTING SUSPENDED EXPANSION/COMPRESSION TANKS AND ALL ASSOCIATE PIPING.

D5 REMOVE EXISTING AIR COMPRESSORS, FILTER/DRYERS, COMPRESSED AIR ACCESSORIES, AND ASSOCIATED CONCRETE HOUSEKEEPING PAD
CAP EXISTING COMPRESSED AIR PIPING OVERHEAD.

~~X X X~~ DENOTES PIPING TO BE REMOVED

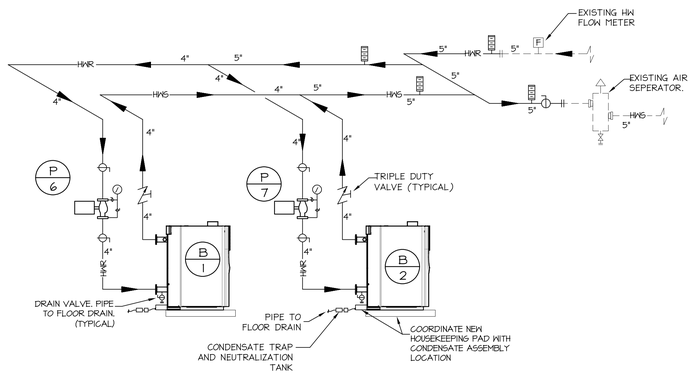


EXISTING **MODIFIED**

FIELD VERIFY EXISTING GAS PIPE SIZES

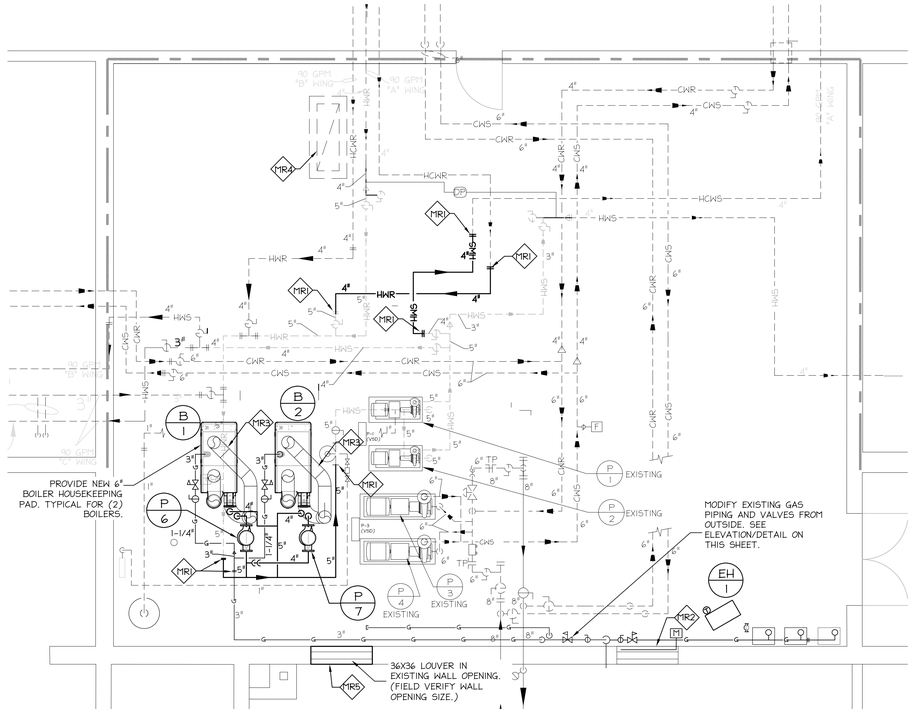
GAS PIPE RISER ELEVATION

NO SCALE



HOT WATER PIPING SCHEMATIC

NO SCALE



ENLARGED MECHANICAL ROOM PLAN

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

SHEET NOTES:

1) SEE GENERAL NOTES ON SHEET M000
2) PROVIDE NEW 6" HIGH CONCRETE HOUSEKEEPING PADS FOR NEW BOILERS. (TYPICAL FOR 2 BOILERS.)

MR1 CONNECT TO EXISTING PIPING

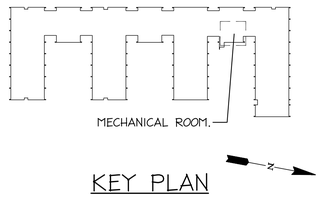
MR2 INSTALL NEW MOTORIZED DAMPER IN EXISTING LOUVER. FIELD VERIFY EXISTING LOUVER SIZE.

MR3 BOILER VENT AND COMBUSTION AIR INTAKE THROUGH ROOF SEE DETAIL ON SHEET M502

MR4 INSTALL NEW MOTORIZED DAMPER IN EXISTING DUCT FROM ROOF INTAKE. APPROX 48X18. FIELD VERIFY EXISTING DUCT SIZE.

MR5 BLANK OFF LOUVER WITH 4" THICK RIGID INSULATION SANDWITCHED BETWEEN (2) SECTIONS OF SHEET METAL. PAINT SHEET METAL ON THE AGAINST LOUVER BLADES FLAT BLACK.

---------- EXISTING PIPING



KEY PLAN

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 19785 STATE OF SOUTH CAROLINA 5/1/2026 SHANE T. BULMAN

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CROW & BULMAN ENGINEERING NO. C00486

CONSULTANT

CROW & BULMAN ENGINEERING, INC.
800 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9801, WWW.CBENGR.COM

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

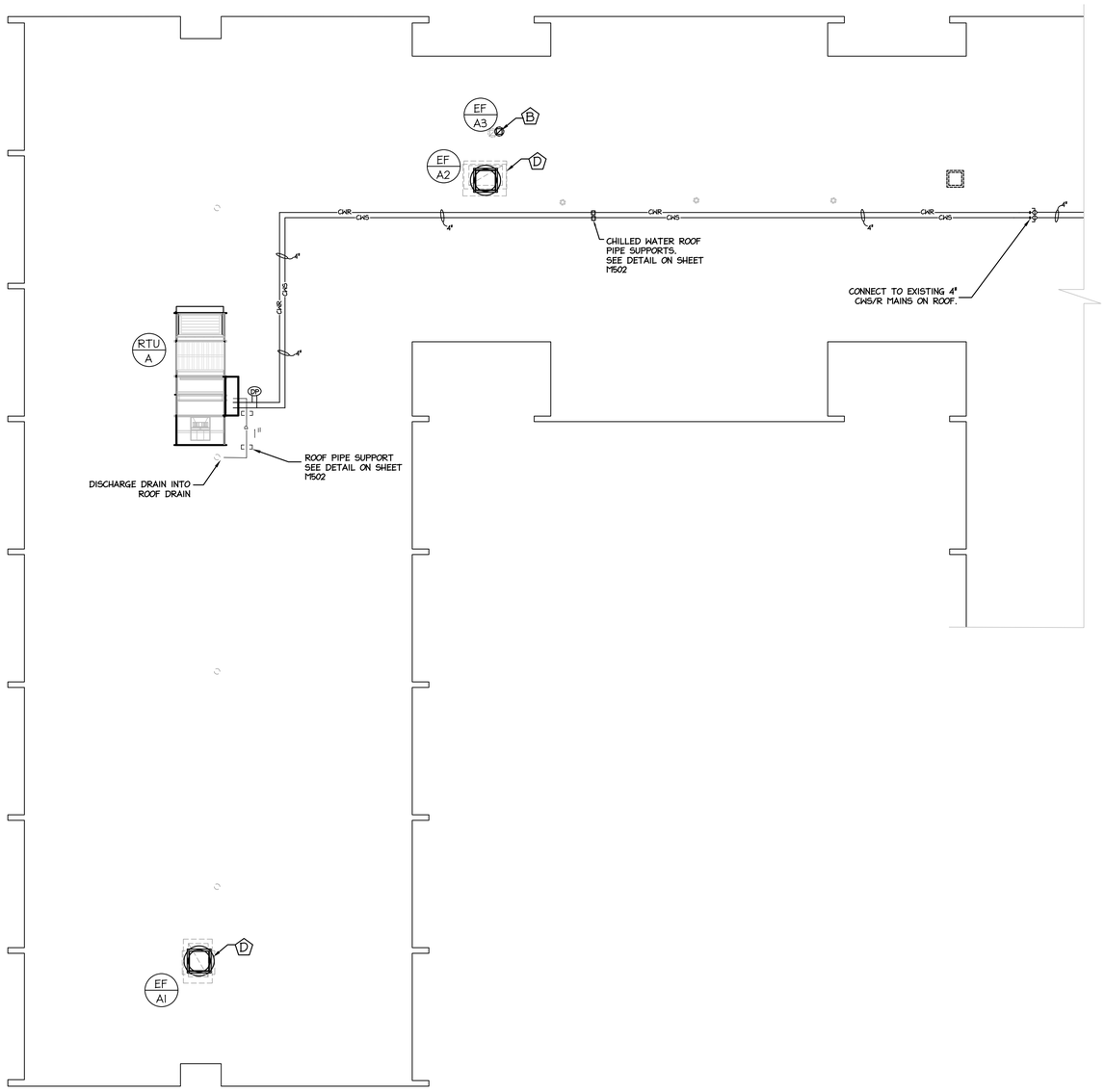
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PROJECT NO:	26010
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HVAC MECHANICAL ROOM PLAN

M301

F E D C B A

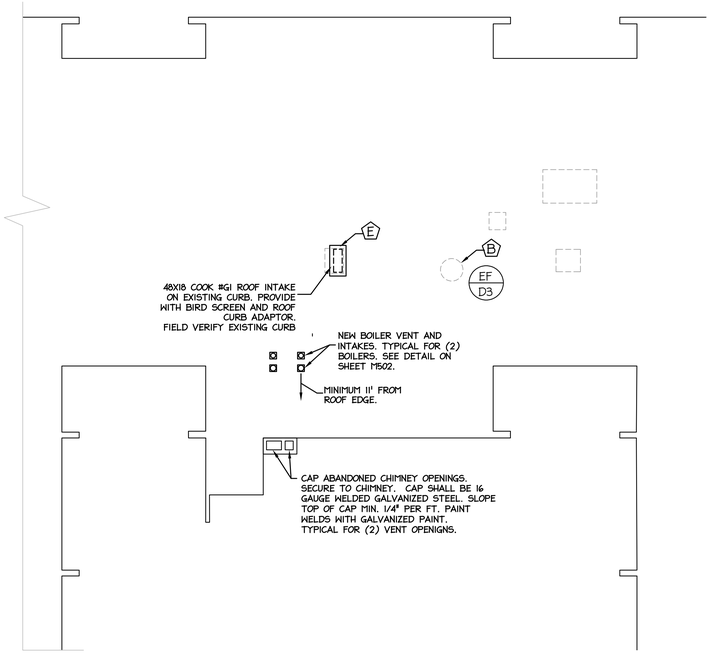
7 6 5 4 3 2 1



HVAC ROOF PLAN - A WING

SCALE: 3/32" = 1'-0"

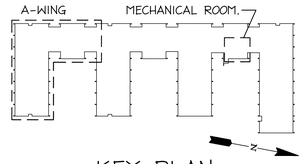
0 2' 4' 8' 16'



HVAC ROOF PLAN - MECHANICAL ROOM

SCALE: 3/32" = 1'-0"

0 2' 4' 8' 16'



KEY PLAN

SHEET NOTES:

1) SEE GENERAL NOTES ON SHEET M000.

ROOF DEMOLITION NOTES:

(A) REMOVE EXISTING EXHAUST FAN. EXISTING ROOF CURB TO BE ABANDONED IN PLACE. CAP EXISTING ROOF CURB WITH 16 GAUGE, WELDED CURB CAP, TURNED DOWN OVER CURB MINIMUM 2". CURB CAP SHALL BE SLOPED MINIMUM 1/4" PER FOOT SLOPE ON (2) SIDES. SECURE CAP TO ROOF CURB WITH LAG BOLTS. PROVIDE 4" THICK RIGID INSULATION INSIDE ROOF CURB, AT ROOF LEVEL. CAULK/SEAL INSULATION AT PERIMETER AND AT ALL INSULATION SEAMS.

(B) REMOVE EXISTING EXHAUST FAN. EXISTING ROOF CURB TO BE RE-USED WITH NEW EXHAUST FAN. (SEE REVISED HVAC FLOOR PLAN AND ROOF PLAN.)

(C) REMOVE EXISTING GRAVITY ROOF VENT: EXISTING ROOF CURB TO BE ABANDONED IN PLACE. CAP EXISTING ROOF CURB WITH 16 GAUGE, WELDED CURB CAP, TURNED DOWN OVER CURB MINIMUM 2". CURB CAP SHALL BE SLOPED MINIMUM 1/4" PER FOOT SLOPE ON (2) SIDES. SECURE CAP TO ROOF CURB WITH LAG BOLTS. PROVIDE 4" THICK RIGID INSULATION INSIDE ROOF CURB, AT ROOF LEVEL. CAULK/SEAL INSULATION AT PERIMETER AND AT ALL INSULATION SEAMS.

(D) REMOVE EXISTING GRAVITY ROOF VENT. EXISTING ROOF CURB TO BE REUSED WITH NEW EXHAUST FAN. SEE ROOF PLAN AND EXHAUST FAN SCHEDULE

(E) REMOVE EXISTING GOOSENECK ROOF INTAKE. EXISTING ROOF CURB TO REMAIN IN SERVICE FOR NEW ROOF INTAKE. COORDINATE ROOF CURB DIMENSIONS WITH NEW ROOF VENT.

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SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 19785
5/1/2026
STANLEY T. BULMAN

SOUTH CAROLINA
CROW & BULMAN ENGINEERING NO. C00486
CERTIFICATE OF AUTHORIZATION

CONSULTANT

CROW & BULMAN ENGINEERING, INC.
800 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9801, WWW.CBENGR.COM

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

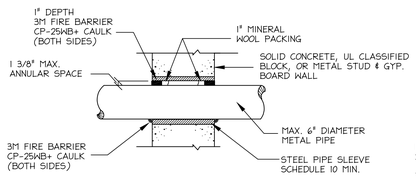
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HVAC ROOF PLAN

M401

7 6 5 4 3 2 1

F E D C B A



APPLICATION DETAILS

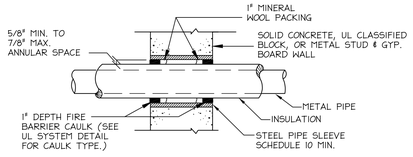
1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE REQUIREMENT IS ZERO, POINT CONTACT. MAXIMUM ANNULAR SPACE ALLOWABLE IS 1 3/8".
3. RECESS A NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL FIRE SAFING, 1" FROM THE WALL SURFACE.
4. FILL THE ANNULAR SPACE AROUND THE PIPE WITH A MINIMUM 1" DEPTH OF 3M FIRE BARRIER CP-25WB+ CAULK.

UNINSULATED PIPE (1, 2, 3, OR 4 HR)

(UL SYSTEM #CAJ1044)

DETAIL OF PIPE PENETRATION OF ALL FIRE RATED FLOORS & PARTITIONS

NO SCALE



APPLICATION DETAILS

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE REQUIREMENT IS 5/8". MAXIMUM ANNULAR SPACE ALLOWABLE IS 7/8".
3. RECESS A NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL FIRE SAFING, 1" FROM THE WALL SURFACE.
4. FILL THE ANNULAR SPACE AROUND THE PIPE WITH A MINIMUM 1" DEPTH OF FIRE BARRIER CAULK. (SEE UL SYSTEM DETAIL FOR CAULK TYPE.)

NOTE: FOR PIPE INSULATED WITH RUBBER BASED FLEXIBLE INSULATION, INSTALL A FIBERGLASS INSERT AT THE FIRE WALL PENETRATION IN LIEU OF THE FLEXIBLE RUBBER INSULATION. (THE FIBERGLASS INSERT SHALL BE THE SAME THICKNESS AS THE RUBBER BASED INSULATION.) THE FIBERGLASS INSERT SHALL EXTEND 6" (MIN.) ON EACH SIDE OF FIRE WALL.

INSULATED PIPE (1, 2, 3 OR 4 HR)

UL SYSTEM #CBJ5002

(FOR PIPING LARGER THAN 6" USE UL SYSTEM #CBJ5003.)

DETAIL OF PIPE PENETRATION OF ALL FIRE RATED FLOORS & PARTITIONS

NO SCALE

SOUND ATTENUATOR SCHEDULE

TAG	UNIT SERVED	CFM	VELOCITY (FPM)	SIZE (WxH)	SIZE (L)	SHAPE	AIRFLOW DIRECTION	ΔP IN W.C.	ΔP SYS. EFFECTS IN W.C.	DYNAMIC INSERTION LOSS (db re 10^-12 WATTS) @ -2000 FPM								MFR & MODEL	REMARKS
										63Hz	125Hz	250Hz	500Hz	1K Hz	2K Hz	4K Hz	8K Hz		
SA-A1	RTU-A	22,000	1451	84" x 26"	84"	STRAIGHT	RETURN	0.12	0.18	4	8	17	40	34	23	16	13	PRICE RM	

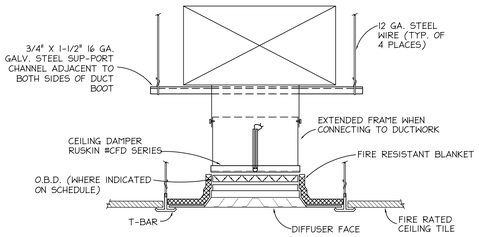
NOTES:
- SOUND DATA IN ACCORDANCE WIHT ASTM E477-20
- FIELD COORDINATE SILENCER DIMENSIONS PRIOR TO PLACING ORDER.

REMARKS:

PUMP SCHEDULE

TAG	SERVICE	GPM	FT. HD.	TYPE	MOTOR HP	ELECT.	RPM	MFR & MODEL	TRIPLE DUTY VALVE			REMARKS
									PATTERN	SIZE	Cv	
P-1	H.W. DIST.	295 (A)	--	--	--	--	--	EXISTING	--	--	--	
P-2	H.W. DIST. (STAND-BY)	295 (A)	--	--	--	--	--	EXISTING	--	--	--	
P-3	C.W. DIST.	655 (A)	--	--	--	--	--	EXISTING	--	--	--	
P-4	C.W. DIST. (STAND-BY)	655 (A)	--	--	--	--	--	EXISTING	--	--	--	
P-5	BOILER PUMP	--	--	--	--	--	--	DELETED	--	--	--	
P-6	BOILER PUMP	265	40	CENTRIFUGAL IN-LINE	5	460/3	1800	B & G SERIES 80 4x4x7B	STRAIGHT	4"	215	(1)
P-7	BOILER PUMP	265	40	CENTRIFUGAL IN-LINE	5	460/3	1800	B & G SERIES 80 4x4x7B	STRAIGHT	4"	215	(1)

REMARKS / ACCESSORIES: (A) MODIFY PUMP SPEED AND/OR BALANCING VALVE TO ACHIEVE UPDATED GPM.
(1) FURNISH WITH VARIABLE SPEED DRIVE

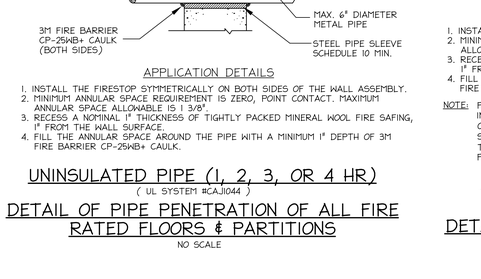


NOTES:
1) CEILING DAMPERS SHALL MEET THE REQUIREMENTS FOR INSTALLATION IN A UP-P529 CEILING ASSEMBLY.
2) DAMPER LEAF SHALL BE 16 GA MINIMUM GALVANIZED STEEL WITH CERAMIC-FIBER PAPER LAMINATED ON BOTH SIDES AND OVERLAP THE DUCT OPENING BY 2" MINIMUM ON ALL SIDES.
3) WHERE DAMPER IS INSTALLED IN INSULATED DUCT, WRAP DUCT DROP WITH 3/4" PCF 2" THICK FLEX WRAP IN LIEU OF FIBERGLASS LINER.
4) MOUNT DAMPER BLADES PARALLEL WITH DIRECTION OF AIR FLOW.
5) SECURE DAMPER TO DUCT DROP WITH NO. 8 SHEET METAL SCREWS IN HOLES PROVIDED; SCREWS MUST NOT INTERFERE WITH DAMPER OPERATION.
6) DETAIL IS INDICATED FOR RUSKIN #CFD SERIES RADIATION DAMPER.
7) INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8) SEE SPECS FOR MORE INFORMATION

(UL-555C LISTING R8039)

DETAIL OF DUCT DIFFUSER CONNECTION IN A FIRE RATED CEILING

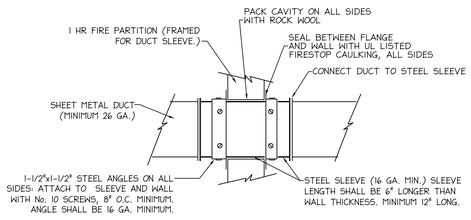
NO SCALE



REFER TO VAV TERMINAL SCHEDULE FOR UNITS REQUIRING 3-WAY VALVES INSTEAD OF MODULATING CONTROL VALVES.

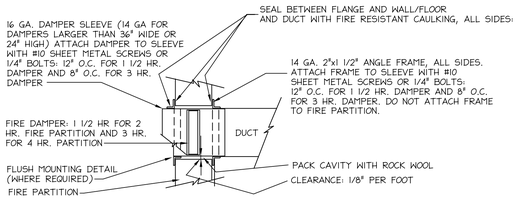
3-WAY VALVES (VAV BOXES)

NO SCALE



DUCT CLOSURE DETAIL AT ALL PENETRATIONS OF ONE HOUR FIRE PARTITIONS NOT REQUIRING DAMPERS, PENETRATIONS OF SMOKE BARRIERS, OR PENETRATIONS OF SOUND WALLS.

NO SCALE



FIRE DAMPER INSTALLATION DETAIL

APPLIES TO FIRE WALL, FIRE BARRIER, OR FIRE PARTITION.

NO SCALE

(UL-555 LISTING R5531)

NOTES:
1) FIRE DAMPER SHALL BE SIZED FOR METAL TO METAL DUCT DIMENSIONS. PARTITION OPENING SHALL BE SIZED FOR 1/8" CLEARANCE PER FOOT OF WIDTH OR HEIGHT.
2) REFER TO MANUFACTURERS RECOMMENDATIONS FOR ADDITIONAL DETAIL.
3) ALTERNATE INSTALLATION DETAILS SHALL BE ACCEPTABLE IF SHOWN TO BE IN COMPLIANCE WITH NFPA 90A & MFR'S LISTING.
4) FOR INSULATED DUCTS: WRAP EXPOSED PORTION OF SLEEVE WITH 2" THICK, 3/4 PCF DENSITY FIBERGLASS INSULATION WITH FOIL FACING, STAPLE AND SEAL WITH FABRIC AND MASTIC.
5) ACCESS DOOR WHERE REQUIRED, SEE SPECIFICATIONS.

BOILER SCHEDULE

TAGS	MBH INPUT	MBH OUTPUT	AHRI THERMAL %	TURNDOWN	GPM	PRESS DROP (FT.)	VOLT	AMPS	MFR & MODEL	REMARKS
B-1	4000	2730	87-98%	15:1	265	1.8	460/3	12 FLA	AERCO "BENCHMARK"	
B-2	4000	2730	87-98%	15:1	265	1.8	460/3	12 FLA	AERCO "BENCHMARK"	

NOTES (EACH BOILER):
- PROVIDE WITH BACNET COMMUNICATION FOR INTERFACE WITH BUILDING MANAGEMENT SYSTEM.
- PROVIDE WITH CONDENSATE TRAP AND ACID NEUTRALIZATION TANK.
- BOILER MANUFACTURER SHALL COORDINATE GAS PRESSURE REGULATOR SIZE, CAPACITY, AND RESPONSE TIME WITH CONTRACTOR.

SUBSTITUTIES
- LOCHINVAR "CREST"
- PATTERSON KELLY "STORM"

ELECTRIC HEATER SCHEDULE

TAGS	CFM	FAN RPM	KW	VOLT	MOUNTING	MFR. & MODEL	REMARKS
EH-1	400	1550	5	277	WALL MOUNTED	MARKEL MODEL 5100	(1)(2)(3)

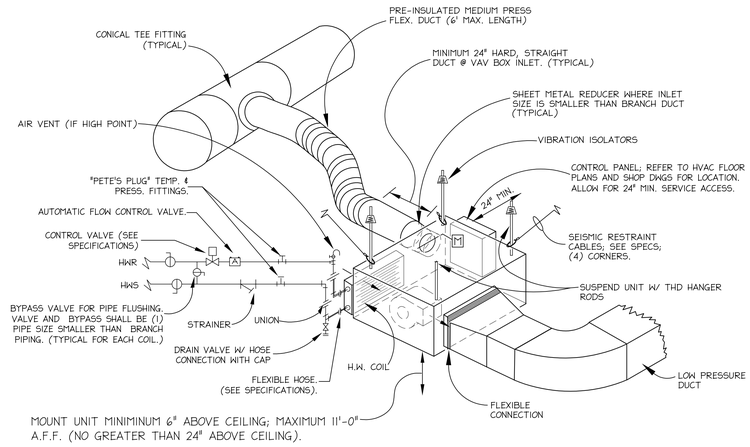
(1) DISCONNECT
(2) CONTROL RELAY (PROVIDED BY CONTROLS CONTRACTOR)
(3) BUILT-IN THERMOSTAT

AIR DEVICE SCHEDULE

TAG	NECK SIZE	NOMINAL FACE SIZE	SERVICE	MOUNTING	MFR. & MODEL NO.	REMARKS
A1	6 x 6	24 X 24	SUPPLY	LAY-IN, T-BAR	PRICE AMD	
A2	9 x 9	24 X 24	SUPPLY	LAY-IN, T-BAR	PRICE AMD	
A3	12 x 12	24 X 24	SUPPLY	LAY-IN, T-BAR	PRICE AMD	
A4	15 x 15	24 X 24	SUPPLY	LAY-IN, T-BAR	PRICE AMD	
B1	6 x 6	24 X 24	SUPPLY	CEILING, SURFACE	PRICE AMD	A
D1	12 x 12	24 X 24	RETURN	LAY-IN, T-BAR	PRICE APDDR	
D2	22 x 22	24 X 24	RETURN	LAY-IN, T-BAR	PRICE APDDR	

NOTES:
1. BLOW TYPE SHALL BE 4-WAY UNLESS INDICATED OTHERWISE ON THE FLOOR PLANS
2. COORDINATE EXACT LOCATIONS WITH EXISTING CEILING GRID AND/OR REFLECTED CEILING PLANS
3. PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED
4. HIGH SIDEWALL SUPPLY REGISTERS SHALL HAVE VERTICAL FRONT BLADES, UNLESS NOTED OTHERWISE.

REMARKS: A. PROVIDE 24"x24" PLASTER FRAME



MOUNT UNIT MINIMINUM 6" ABOVE CEILING; MAXIMUM 11'-0" A.F.F. (NO GREATER THAN 24" ABOVE CEILING).

V.A.V. BOX & HOT WATER COIL PIPING DETAILS

NO SCALE

VAV TERMINAL NOTES:
1) PIPE TRIM TYPICAL FOR ALL UNITS
2) PIPE CONNECTIONS TO UNITS SHALL BE ARRANGED TO NOT PROHIBIT REMOVAL OF UNITS ACCESS PANELS OR RESTRICT ACCESS TO UNIT AND FILTER HOUSING.
3) AT THE CONTRACTORS OPTION, COMBINATION VALVES MAY BE FURNISHED IN LIEU OF INDIVIDUAL PIECES. (SEE SPECS.) PIPE FLUSHING WILL REQUIRE SEPERATE SERVICE VALVES.
4) PROVIDE SERVICE ACCESS AS RECOMMENDED BY MANUFACTURER'S RECOMMENDATIONS.

EXHAUST FAN SCHEDULE

TAG	SERVICE	CFM	SP IN HG	HP OR WATTS	DRIVE	ELEC. PH.	FAN RPM	SONES / dBA	MOUNTING	MFR & MODEL	REMARKS
EF-A1	BUILDING RELIEF	9,000	0.5	2 HP	BELT	460/3	420	10.2 / 60	ROOF	COOK 365TLC-B	(1)(2)(3)(4)(7)(10)(12)(14)(15)(17)
EF-A2	BUILDING RELIEF	9,000	0.5	2 HP	BELT	460/3	420	10.2 / 60	ROOF	COOK 365TLC-B	(1)(2)(3)(4)(7)(10)(12)(14)(15)(17)
EF-A3	TOILET EXHAUST	750	0.5	1/4 HP	DIRECT	115/1	1692	10.2 / 61	ROOF	COOK 101C17D	(1)(2)(3)(7)(8)(9)(11)
EF-D3	MECHANICAL ROOM	11,700	0.5	2 HP	BELT	460/3	379	11.5 / 61	ROOF	COOK 402C9B	(1)(2)(3)(4)(5)(6)(7)(11)(12)

REMARKS / ACCESSORIES:
(1) DISCONNECT SWITCH
(2) BACKDRAFT DAMPER
(3) BIRDSCREEN
(4) MOTOR STARTER
(5) VARIABLE FREQUENCY DRIVE
(6) THERMOSTAT BY CONTROLS
(7) 18" HIGH ACOUSTIC ROOF CURB EXTENSION W/ REMOVABLE SOUND BAFFLES.
(8) EC MOTOR
(9) ROOF CURB ADAPTOR. FIELD COORDINATE DIMENSION OF EXISTING ROOF CURB. PROVIDE WIND RESTRAINTS STRAPS/CABLES TO SECURE NEW FAN (AND ROOF CURB EXTENSION TO STRUCTURAL STEEL.)
(10) LOW LEAKAGE DAMPERS. (SEE SPECIFICATIONS FOR DAMPER LEAKAGE RATES.)
(11) HINGED FAN BASE
(12) PROVIDE ROOF CURB ADAPTOR WITH MOUNTING FRAME & BRACKET TO MOUNT VARIABLE FREQUENCY DRIVE.
(13) AIRFLOW MONITORING STATION. (EBTRON GTX116-P+.) PROVIDED BY CONTROLS

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 19785 STATE OF SOUTH CAROLINA 5/1/2026 SHAWN T. BULMAN
CROW & BULMAN ENGINEERING NO. C00488 CERTIFICATE OF AUTHORIZATION

CONSULTANT

CROW & BULMAN ENGINEERING, INC.
800 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9801, WWW.CBENGR.COM

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

ISSUE:	OSE CD
DATE:	5/1/2026
PROJECT NO:	26010
DRAWN BY:	STB
CHECKED BY:	STB

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO. H59-6353-JM

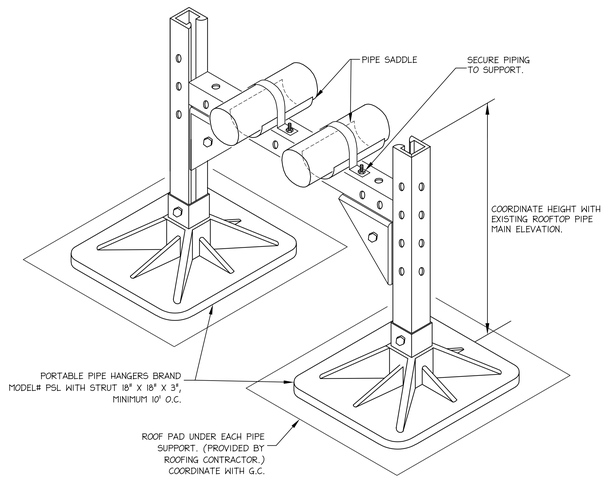
131 COMMUNITY COLLEGE DRIVE SPARTANBURG, SC

HVAC SCHEDULES & DETAILS

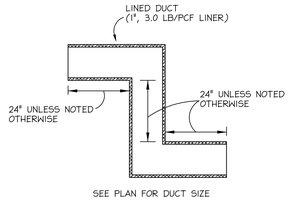
M501

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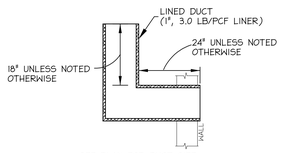
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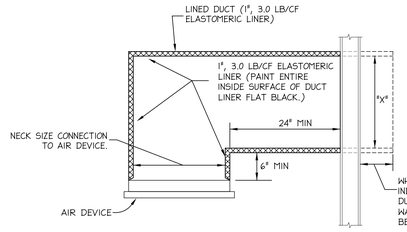
CHILLED WATER ROOF PIPE SUPPORT DETAIL
NO SCALE



"Z" DUCT DETAIL
NO SCALE

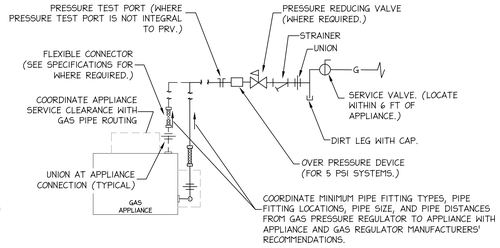


SOUND ELBOW DETAIL
NO SCALE

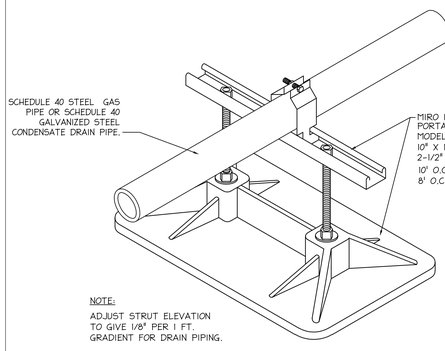


TYPICAL FOR ALL AIR DEVICES OPENING TO THE CEILING PLENUM. INSTALL WITH INLET DIRECTION AWAY FROM EQUIPMENT ABOVE CEILING.

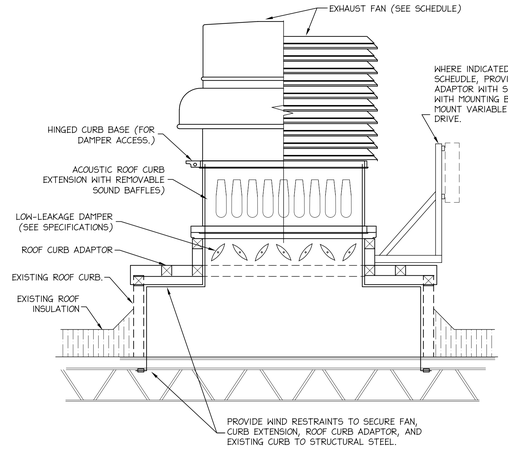
SOUND TRAP DETAIL
NO SCALE



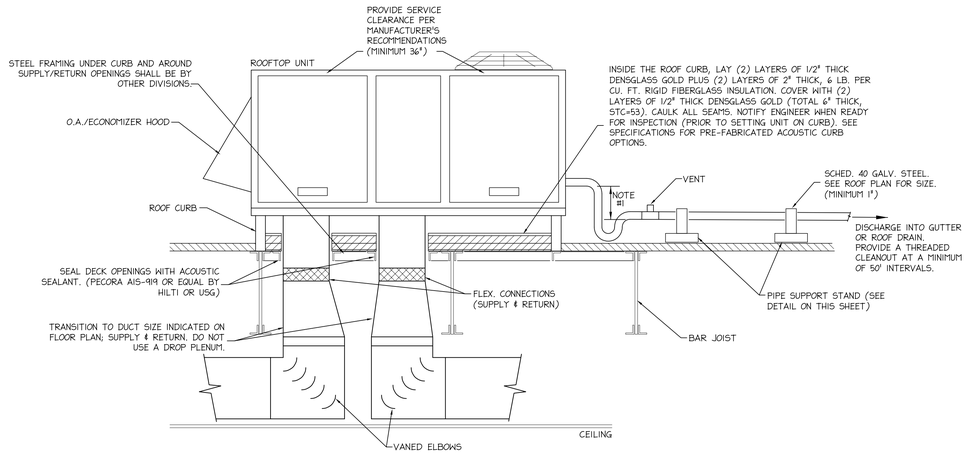
GAS APPLIANCE TRIM DETAIL
NO SCALE



ROOF PIPE SUPPORT DETAIL
NO SCALE

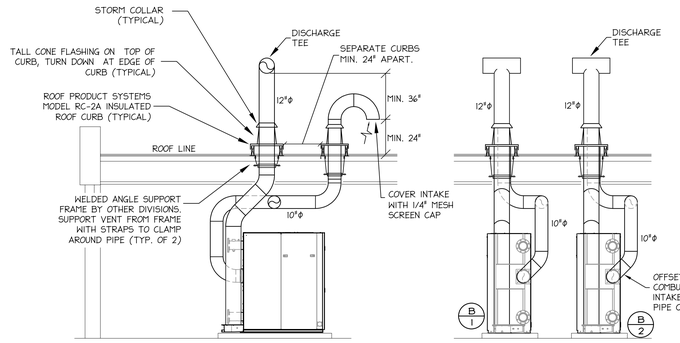


EXHAUST FAN ROOF CURB ADAPTOR DETAIL
NO SCALE

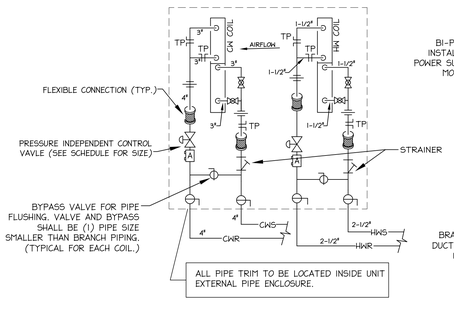


TYPICAL ROOFTOP UNIT DETAIL
NO SCALE

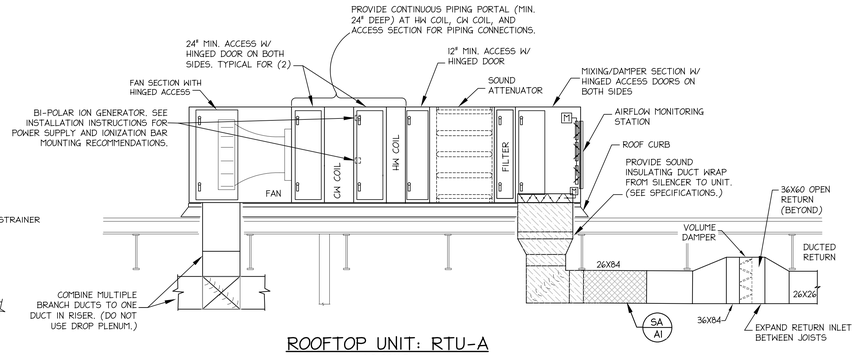
NOTES: 1.) DISTANCE SHALL BE 2" OR 1/2" GREATER THAN THE FAN SUCTION PRESSURE (WHICH EVER IS GREATER).



BOILER VENT/INTAKE DETAIL
NO SCALE



RTU-A PIPING DETAIL
NO SCALE



ROOFTOP UNIT: RTU-A
NO SCALE

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 19785 5/1/2026 STATE T. BULMAN

SOUTH CAROLINA CROW & BULMAN ENGINEERING NO. C00486 CERTIFICATE OF AUTHORIZATION

CONSULTANT

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO. H59-6353-JM

131 COMMUNITY COLLEGE DRIVE SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

ISSUE:	OSE CD
DATE:	5/1/2026
PROJECT NO:	26010
DRAWN BY:	STB
CHECKED BY:	STB

HVAC DETAILS

M502

F E D C B A

7 6 5 4 3 2 1

ROOF TOP UNIT SCHEDULE

TAG	MFR & MODEL	FAN DATA									COOLING COIL DATA											HEATING COIL DATA											DIRTY FILTER ALLOWANCE	BI-POLAR ION GENERATOR (B)			REMARKS	TAG
		CFM	DESIGN OA CFM	O.A. MIN CFM (A)	SIZE / TYPE	RPM	HP	EXT. SP (IN W.G.)	TOTAL SP (IN W.G.)	ELEC.	ROWS / FPF	EAT db/wb	LAT db/wb	MBH SENS.	MBH TOTAL	EWT(°F)	WATER ΔT	GPM	COIL FACE VEL.(FPM)	APD (IN W.G.)	WPD (FT)	PIPE THD SIZE	CONTROL VALVE dp (PSI)	ROWS / FPF	EAT(°F)	LAT(°F)	MBH	EWT(°F)	WATER ΔT	GPM	COIL FACE VEL.(FPM)	APD (IN W.G.)	WPD (FT)	PIPE THD SIZE	CONTROL VALVE dp (PSI)		MFR/MODEL	VOLTAGE	POWER		
RTU-A	DAIKIN "SKYLINE"	22,000	7920	2750	33 / AIRFOIL	1160	40	3.0	5.37	460/3	10 / 108	79.8 / 65.7	50.6 / 50.4	701.3	983.7	45	12.5	157.7	516	1.22	12.1	4"	3.0	1 / 156	53.2	81.5	680.2	160	32.8	41.5	533	0.14	8.2	2"	3.0	1.0	GPS-IMOD	24/115/208V	15 W	①②③④⑤⑥⑦⑧⑨	RTU-A

NOTES:
- EXT. STATIC PRESS. INCLUDES ALL LOSSES EXTERNAL TO THE CABINET. TOTAL STATIC PRESS. INCLUDES E.S.P., INTERNAL LOSSES, AND DIRTY FILTER.
- FILTER HOUSING SHALL HAVE 4" FILTER CAPABILITY. (SEE SPECIFICATIONS FOR SIZE/TYPE OF FILTERS REQUIRED.)
- COIL FACE VELOCITY SHALL NOT EXCEED 525 FPM.
- SEE DETAILS ON THIS SHEET FOR COMPONENTS AND UNIT CONFIGURATION.

(A) MINIMUM CFM BASED ON DEMAND CONTROLLED VENTILATION SEQUENCE. SEE SPECIFICATIONS.

(B) BI-POLAR IONIZATION. (FIELD INSTALLED, PROVIDED BY HVAC CONTRACT.)

REMARKS:
1. VARIABLE FREQUENCY DRIVE
2. SMOKE DETECTOR. (PROVIDED BY ELECTRICAL CONTRACT.)
3. PROVIDE HINGED ACCESS DOORS ON BOTH SIDES OF UNIT
4. ULTRA-LOW LEAKAGE ECONOMIZER DAMPERS (OUTDOOR AIR AND RETURN)
5. EXTERNAL PIPING ENCLOSURE W/ ROOF CURB
6. SPRING ISOLATED, WIND RATED ROOF CURB (PROVIDE NECESSARY SLOPE TO MOUNT UNIT LEVEL. SEE ARCH. ROOF PLAN.)
7. NON-POWERED GFI RECEPTICAL (POWER BY ELEC.)
8. INTEGRAL SOUND ATTENUATOR *SEE SOUND POWER LEVEL SCHEDULE* FOR AIR HANDLING UNIT SOUND DATA.
9. AIRFLOW MONITORING STATION AT OUTDOOR AIR INLET (EBTRON GTx116-P*, PROVIDED BY CONTROLS.)

AIR HANDLING EQUIPMENT
NOT TO EXCEED SOUND POWER LEVELS

TAG	SERVICE	OCTAVE BAND SOUND POWER RATINGS (DB RE: 10^{-12} WATTS)							
		63	125	250	500	1000	2000	4000	8000
RTU-A	SUPPLY	91	87	95	94	95	96	89	79
	RETURN	81	77	82	73	73	68	51	51

VAV TERMINAL SCHEDULE

TAG	Room	Mfr	Model	Size	Inlet Dia	Max Primary (CFM)	Min Primary (CFM)	Inlet SP (in. w.g.)	Downstream SP (in. w.g.)	Min Oper PD (in. w.g.)	Max Dis NC (B)	Max Rad NC (B)	Fan Flow (CFM)	Motor HP	WC Capacity (MBH)	EAT (°F)	LAT (°F)	Supply Air Temp (°F)	Return Air Temp (°F)	Fluid Flow (GPM)	FPD (ft. w.g.)	Rows	Max Coil APD (in. w.g.)	EWT (°F)	LWT (°F)	MOP	MCA	V/Ø/Hz	Branch Pipe and Trim Size	Control Valve Pressure Drop	Remarks	Tag
T-A01	A1 CLASSROOM	Price	FDV5	3012	12	1200	415	1.5	0.45	0.01	24 (2)	28 (2)	780	1/2	31.4	72	89.8	54	72	1.87	0.99	2R	0.21	160	125.6	15	5	277-ECM	3/4"	2 psi	A, B	T-A01
T-A02	A2 CLASSROOM	Price	FDV5	3012	12	1100	415	1.5	0.45	0.01	22 (2)	26 (2)	685	1/2	29.7	72	90	54	72	1.85	0.97	2R	0.17	160	127.2	15	5	277-ECM	3/4"	2 psi	A	T-A02
T-A03	A3 OFFICE	Price	FDV5	2006	6	300	20	1.5	0.45	0.08	25 (2)	--	300	1/3	8.3	72	89.6	54	72	0.59	0.58	1R	0.02	160	131.3	15	2.6	277-ECM	3/4"	2 psi		T-A03
T-A04	A4 CLASSROOM	Price	FDV5	3012	12	1100	405	1.5	0.45	0.01	22 (2)	26 (2)	710	1/2	29.7	72	90	54	72	1.85	0.97	2R	0.17	160	127.2	15	5	277-ECM	3/4"	2 psi	A	T-A04
T-A05	A5 CLASSROOM	Price	FDV5	3012	12	1200	410	1.5	0.45	0.01	24 (2)	28 (2)	780	1/2	31.4	72	89.8	54	72	1.87	0.99	2R	0.21	160	125.6	15	5	277-ECM	3/4"	2 psi	A, B	T-A05
T-A06	A6 CLASSROOM	Price	FDV5	3012	12	1000	390	1.5	0.45	0.01	21 (2)	25 (2)	605	1/2	27.6	72	90.3	54	72	1.75	0.88	2R	0.14	160	127.8	15	5	277-ECM	3/4"	2 psi	A	T-A06
T-A07	A7 CLASSROOM	Price	FDV5	3012	12	1100	390	1.5	0.45	0.01	22 (2)	26 (2)	710	1/2	29.7	72	90	54	72	1.85	0.97	2R	0.17	160	127.2	15	5	277-ECM	3/4"	2 psi	A	T-A07
T-A08	A8 CLASSROOM	Price	FDV5	3012	12	1000	390	1.5	0.45	0.01	21 (2)	25 (2)	610	1/2	27.6	72	90.3	54	72	1.75	0.88	2R	0.14	160	127.8	15	5	277-ECM	3/4"	2 psi	A	T-A08
T-A09	A9 CLASSROOM	Price	FDV5	3012	12	1000	390	1.5	0.45	0.01	21 (2)	25 (2)	610	1/2	27.6	72	90.3	54	72	1.75	0.88	2R	0.14	160	127.8	15	5	277-ECM	3/4"	2 psi	A	T-A09
T-A10	A10 CLASSROOM	Price	FDV5	4012	12	1300	435	1.5	0.45	0.01	29 (2)	28 (2)	830	1/2	34.5	72	89.9	54	72	1.83	1.25	2R	0.14	160	121.4	15	4.4	277-ECM	3/4"	2 psi	A	T-A10
T-A11	A11 OFFICE	Price	FDV5	2006	6	300	20	1.5	0.45	0.08	25 (2)	--	300	1/3	8.3	72	89.6	54	72	0.59	0.58	1R	0.02	160	131.3	15	2.6	277-ECM	3/4"	2 psi	A	T-A11
T-A12	A12 CLASSROOM	Price	FDV5	3012	12	1200	390	1.5	0.45	0.01	21 (2)	25 (2)	780	1/2	31.4	72	89.8	54	72	1.87	0.99	2R	0.21	160	125.6	15	5	277-ECM	3/4"	2 psi	A	T-A12
T-A13	A13 CLASSROOM	Price	FDV5	4012	12	1300	465	1.5	0.45	0.01	29 (2)	28 (2)	830	1/2	39	72	93.2	54	72	2.53	2.21	2R	0.14	160	128.5	15	4.4	277-ECM	3/4"	2 psi	A	T-A13
T-A14	A14 CLASSROOM	Price	FDV5	3012	12	1100	415	1.5	0.45	0.01	22 (2)	26 (2)	710	1/2	29.7	72	90	54	72	1.85	0.97	2R	0.17	160	127.2	15	5	277-ECM	3/4"	2 psi	A	T-A14
T-A15	A15 CLASSROOM	Price	FDV5	3012	12	1200	415	1.5	0.45	0.01	24 (2)	28 (2)	780	1/2	31.4	72	89.8	54	72	1.87	0.99	2R	0.21	160	125.6	15	5	277-ECM	3/4"	2 psi	A, B	T-A15
T-A16	01/02 CORR	Price	FDV5	3012	12	1200	-	1.5	0.45	0.01	24 (2)	28 (2)	1200	1/2	34.9	72	98.8	54	72	1.70	0.85	2R	0.42	160	118	15	5	277-ECM	3/4"	2 psi	A	T-A16
T-A17	A17 CLASSROOM	Price	FDV5	3012	12	1100	390	1.5	0.45	0.01	24 (2)	28 (2)	710	1/2	29.7	72	90	54	72	1.85	0.97	2R	0.17	160	127.2	15	5	277-ECM	3/4"	2 psi	A	T-A17
T-A18	01 CORR	Price	FDV5	2008	8	700	-	1.5	0.45	0.05	30 (2)	25 (2)	700	1/2	21	72	99.5	54	72	0.86	0.26	2R	0.17	160	110.4	15	2.6	277-ECM	3/4"	2 psi	A	T-A18
T-A19	A19 CLASSROOM	Price	FDV5	3012	12	1100	370	1.5	0.45	0.01	22 (2)	26 (2)	710	1/2	29.7	72	90	54	72	1.85	0.97	2R	0.17	160	127.2	15	5	277-ECM	3/4"	2 psi	A	T-A19
T-A20	A20M A23, A30 OFFICE	Price	FDV5	2006	6	450	80	1.5	0.45	0.17	31 (2)	21 (2)	370	1/3	10.5	72	90.1	54	72	0.84	1.06	1R	0.03	160	134.4	15	2.6	277-ECM	3/4"	2 psi		T-A20
T-A21	A21-A24 OFFICE	Price	FDV5	2006	6	300	40	1.5	0.45	0.08	25 (2)	--	300	1/3	8.3	72	89.6	54	72	0.59	0.58	1R	0.02	160	131.3	15	2.6	277-ECM	3/4"	2 psi		T-A21
T-A22	A19A CLASSROOM	Price	FDV5	3012	12	1000	395	1.5	0.45	0.01	21 (2)	25 (2)	610	1/2	27.6	72	90.3	54	72	1.75	0.88	2R	0.14	160	127.8	15	5	277-ECM	3/4"	2 psi	A	T-A22
T-A23	A25,A28 OFFICE	Price	FDV5	3010	10	800	50	1/2	0.45	0.02	22 (2)	29 (2)	590	1/2	27.1	72	98.5	54	72	1.72	0.85	2R	0.13	160	127.7	15	5	277-ECM	3/4"	2 psi		T-A23
T-A24	A29,A32 OFFICE	Price	FDV5	2006	6	300	40	1.5	0.45	0.08	25 (2)	--	300	1/3	8.3	72	89.6	54	72	0.59	0.58	1R	0.02	160	131.3	15	2.6	277-ECM	3/4"	2 psi		T-A24
T-A25	A36, A37 OFFICE	Price	FDV5	2008	8	550	45	1.5	0.45	0.03	26 (2)	22 (2)	425	1/3	18.5	72	98.8	54	72	0.93	0.29	2R	0.08	160	119.3	15	2.6	277-ECM	3/4"	2 psi		T-A25
T-A26	A34 A35 OFFICE	Price	FDV5	2006	6	300	30	1.5	0.45	0.08	25 (2)	--	300	1/3	8.3	72	89.6	54	72	0.59	0.58	1R	0.02	160	131.3	15	2.6	277-ECM	3/4"	2 psi		T-A26
T-A27	A33 WORKRM	Price	FDV5	2006	6	300	45	1.5	0.45	0.08	25 (2)	--	300	1/3	8.3	72	89.6	54	72	0.59	0.58	1R	0.02	160	131.3	15	2.6	277-ECM	3/4"	2 psi		T-A27
T-A28	A38 DATA	Price	SDV	7	7	600	-	1	0.25	0.09	29 (2)	21 (2)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		T-A28

NOTES:
- ALL HOT WATER COILS SHALL BE LOCATED ON THE TERMINAL INLET.
- ROOM NC LEVEL SHOWN ARE BASED ON AHRI STANDARD 885-2008. (DASHED LINES INDICATE SOUND POWER LEVELS BELOW SIGNIFICANCE PWER AHRI-880)
- SOUND DATA SHALL BE OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ARI STANDARD 880.
- HW COIL POSITION: PARALLEL BOX - BOX INLET
- ALL UNITS SHALL HAVE 1", 3 LB/CU.FT. DENSITY LINER
- ALL VAV TERMINALS SHALL HAVE FACTORY MOUNTED SIEMENS CONTROLLERS. (CONTROLLERS SHALL BE FURNISHED BY SIEMENS.)
- SEE VAV TERMINAL DETAIL FOR UNIT CONFIGURATION AND PIPING DETAILS.

(A) MINIMUM PRIMARY AIR SETTING BASED ON DEMAND CONTROLLED VENTILATION SEQUENCE. (SEE SPECIFICATIONS,) "MINIMUM OCCUPIED SETTING" IS THE MINIMUM PRIMARY CFM SETTING DURING OCCUPIED MODE WHEN ROOM CARBON DIOXIDE SENSOR IS BELOW SETPOINT.
(B) VAV TERMINALS MAY BE "OVERSIZED" BASED ON THEIR NOMINAL DESIGN CAPACITY TO ACHIEVE THE SCHEDULED SOUND DATA

REMARKS:
(A) MINIMUM PRIMARY AIR SETTING BASED ON DEMAND CONTROLLED VENTILATION SEQUENCE. (SEE SPECIFICATIONS,) "MINIMUM OCCUPIED SETTING" IS THE MINIMUM PRIMARY CFM SETTING DURING OCCUPIED MODE WHEN ROOM CARBON DIOXIDE SENSOR IS BELOW SETPOINT.
(B) 3-WAY VALVE SHALL BE INSTALLED IN LIEU OF 2-WAY VALVE. SEE VAV TERMINAL DETAIL

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 19785 STANLEY T. BULMAN 5/11/2026
SOUTH CAROLINA CROW & BULMAN ENGINEERING NO. C00486 CERTIFICATE OF AUTHORIZATION

CONSULTANT

CROW & BULMAN ENGINEERING, INC.
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PHONE: 864-585-0903, WWW.CBENGR.COM

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

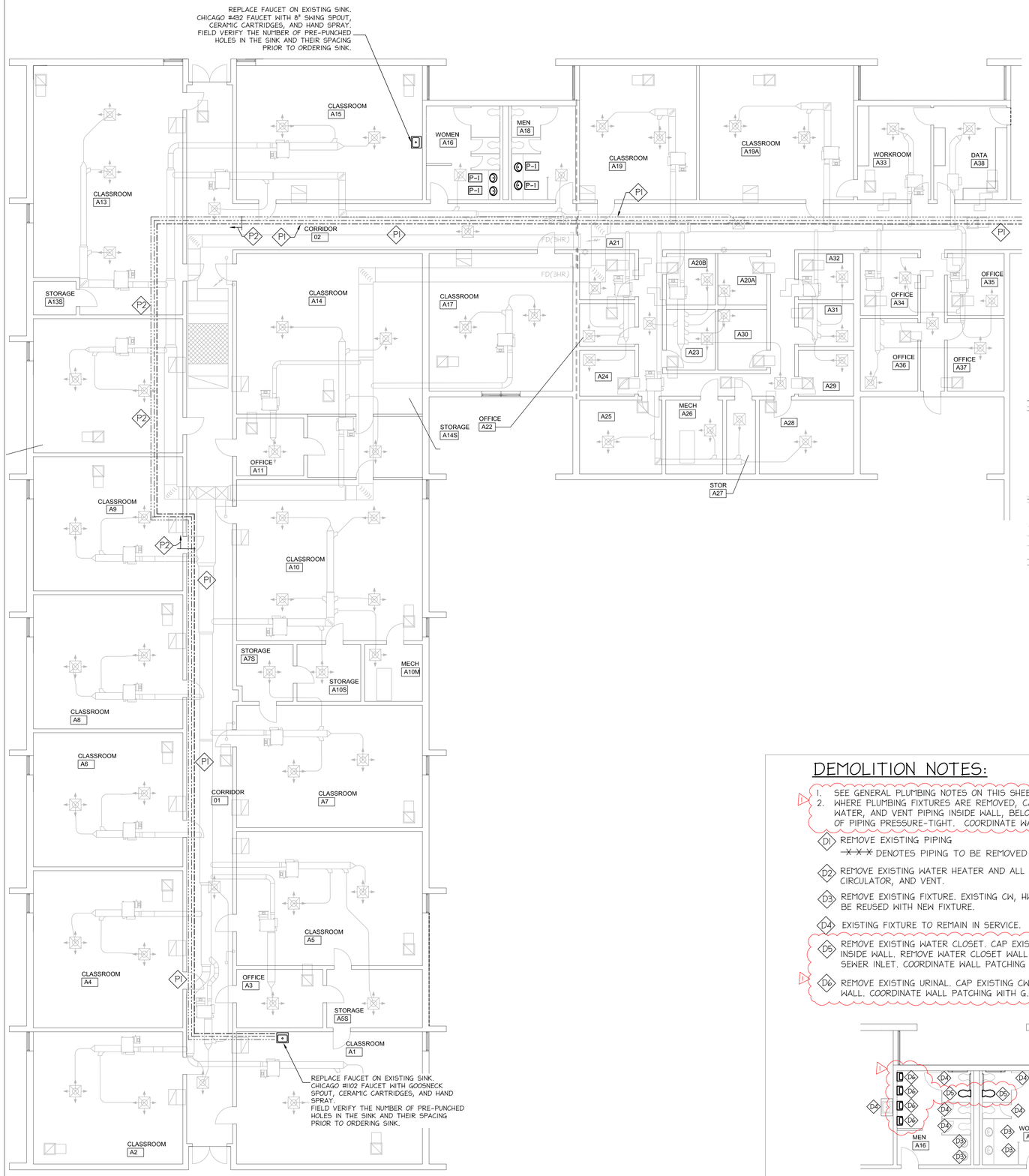
ISSUE:	OSE CD
DATE:	5/1/2026
PROJECT NO:	26010
DRAWN BY:	STB
CHECKED BY:	STB

HVAC SCHEDULES & DETAILS

M503

7 6 5 4 3 2 1

F E D C B A



PLUMBING FLOOR PLAN - A-WING

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16'

PLUMBING - GENERAL NOTES:

1) FIRE PROOF ALL PIPE PENETRATIONS OF A FIRE WALL. SEE DETAILS ON P201
2) DO NOT INSTALL PLUMBING VENTS WITHIN 10' FROM A FRESH AIR INTAKE VENT.
3) PIPE GAS RELIEF VENTS TO THE OUTSIDE:
   BOILERS & WATER HEATERS: (FOR EACH UNIT.)
   PRV VENT FULL SIZE (EA.) AND GAS TRAIN VENT SHALL BE SIZED AS FOLLOWS:

FUEL LINE DIA.	UP TO 1-1/2"	2"	2-1/2"	3"	4"	5"	6"
VENT LINE DIA.	3/4"	1"	1-1/4"	1-1/4"	2"	2"	2-1/2"

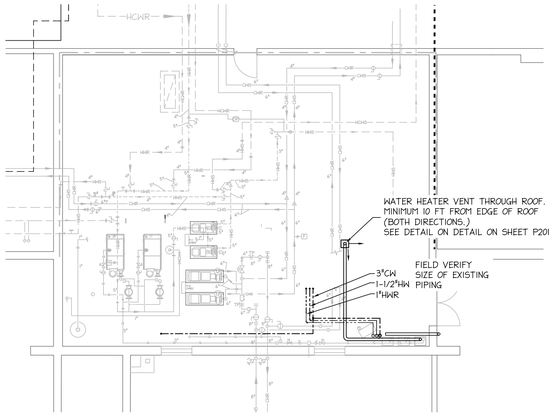
SHEET NOTES:

P1 REROUTE EXISTING CW, HW, AND HWR PIPING MAINS TO ALLOW FOR INSTALLATION OF NEW HVAC SYSTEM. SECURE PIPING TIGHT TO BOTTOM OF JOIST. RECONNECT EXISTING BRANCH PIPNG. COORDINATE NEW PIPING LOCATIONS WITH HVAC CONTRACTOR AND NEW DUCTWORK LOCATION.

P2 REROUTE EXISTING CW, HW, AND HWR MAINS FROM CORRIDOR TO ACCOMMODATE NEW HVAC DUCTWORK BELOW AND AROUND ROOFTOP UNIT. RELOCATE MAINS INSIDE CLASSROOM. SECURE PIPING TIGHT TO THE BOTTOM OF THE JOIST.

SYMBOLS:

———	SEWER OR WASTE
- - - -	VENT (OR EXIST. PIPE IF NOTED
— - —	POTABLE COLD WATER (CW)
— - - —	POTABLE HOT WATER (HW)
— - - - —	HOT WATER PUMPED RETURN
—D—	DRAIN
—SD—	STORM DRAIN
—DS—	DOWNSPOUT
—⋈—	GATE VALVE
—◁—	BALL VALVE
—||—	UNION
—⋈—	CHECK VALVE
—⋈—	GLOBE VALVE
VB	VALVE BOX
CO	CLEANOUT
FD	FLOOR DRAIN
—G—	NATURAL GAS
HB	HOSE BIBB
WH	WALL HYDRANT
VTR	VENT THRU ROOF
SA	SHOCK ABSORBER
HD	HUB DRAIN
O/H	OVER HEAD
U/G	UNDERGROUND
AAV	AIR ADMITTANCE VALVE



MECHANICAL ROOM PLUMBING PLAN

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16'

DEMOLITION NOTES:

1. SEE GENERAL PLUMBING NOTES ON THIS SHEET.
2. WHERE PLUMBING FIXTURES ARE REMOVED, CAP EXISTING WASTE, HOT WATER, COLD WATER, AND VENT PIPING INSIDE WALL, BELOW FLOOR, OR ABOVE CEILING. CAP END OF PIPING PRESSURE-TIGHT. COORDINATE WALL/FLOOR PATCHING WITH G.C.

D1 REMOVE EXISTING PIPING
~~X X X~~ DENOTES PIPING TO BE REMOVED

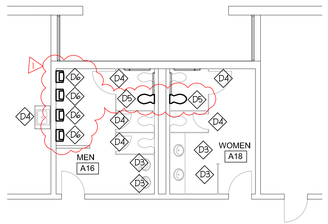
D2 REMOVE EXISTING WATER HEATER AND ALL ASSOCIATED BRANCH PIPING, CIRCULATOR, AND VENT.

D3 REMOVE EXISTING FIXTURE. EXISTING CW, HW, VENT AND SEWER CONNECTIONS TO BE REUSED WITH NEW FIXTURE.

D4 EXISTING FIXTURE TO REMAIN IN SERVICE.

D5 REMOVE EXISTING WATER CLOSET. CAP EXISTING CW AND SEWER CONNECTIONS INSIDE WALL. REMOVE WATER CLOSET WALL CARRIER MOUNTING RODS AND SEAL SEWER INLET. COORDINATE WALL PATCHING WITH G.C.

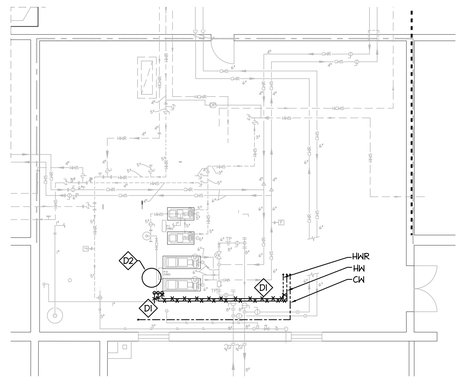
D6 REMOVE EXISTING URINAL. CAP EXISTING CW AND SEWER CONNECTIONS INSIDE WALL. COORDINATE WALL PATCHING WITH G.C.



PLUMBING DEMOLITION PLAN - A-WING

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16'



MECH.-D25 PLUMBING DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16'

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 19785 STATE T. BULMAN 5/1/2026

SOUTH CAROLINA CROW & BULMAN ENGINEERING NO. C00486 CERTIFICATE OF AUTHORIZATION

CONSULTANT

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO. H59-6353-JM

131 COMMUNITY COLLEGE DRIVE SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

ISSUE:	OSE CD
DATE:	5/1/2026
PROJECT NO:	26010
DRAWN BY:	STB
CHECKED BY:	STB

PLUMBING FLOOR PLANS

P101

7 6 5 4 3 2 1

F E D C B A

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code:	90.1 (2007) Standard
Project Title:	SCC Powers A-Wing PLUMBING
Location:	Spartanburg, South Carolina
Climate Zone:	3a
Project Type:	Alteration

Construction Site:
800 Brisack Road
Spart, South Carolina 29303

Owner/Agent:
Spartanburg Community College
800 Brisack Road
Spartanburg, South Carolina 29303

Designer/Contractor:
Shane Bulman
Crow & Bulman Engineering
800 East Main St
Spartanburg, South Carolina 29302
864-585-9903
sbulman@cbengr.com

Mechanical Systems List

Quantity **System Type & Description**

2 Water Heaters
Gas Instantaneous Water Heater, Capacity: 1 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump
Proposed Efficiency: 0.95 EF, Required Efficiency: 0.67 EF

SWH COMPLIANCE REQUIRED.

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2007) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Shane Bulman (Project Engineer) — Name - Title
Shane Bulman — Signature
5/1/2026 — Date

Project Title: SCC Powers A-Wing PLUMBING
Data filename:
Report date: 05/11/26
Page 1 of 6

WATER HEATER SCHEDULE

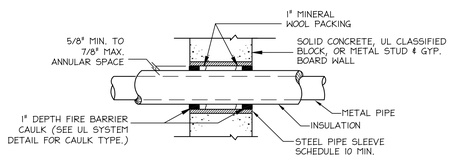
UNIT NO.	CAPACITY (GAL.)	GAS			ELEC.			RECOVERY		MAKE & MODEL NO.	CIRCULATOR PUMP	MIXING VALVE	REMARKS
		GAS	MBH INPUT	EFF.	K.W.	VOLT.	PHASE	G.P.H.	°F RISE				
WH-1	-	NAT. GAS	13.3-199.9	95%	0.2	115	1	234	100°F	NAVIEN NPE-240	B&G ECOCIRC XL 55-45(1/2 HP, 208V, 20 GPM, 50 FT HEAD)	SYMMONS 7-700A	①②③
WH-2	-	NAT. GAS	13.3-199.9	95%	0.2	115	1	234	100°F	NAVIEN NPE-240	---	---	①②③
WH-3	-	NAT. GAS	13.3-199.9	95%	0.2	115	1	234	100°F	NAVIEN NPE-240	---	---	①②③ FUTURE

NOTES:
① CASCADING CONTROLLER TO CONTROL AND STAGE MULTIPLE UNITS
② NEUTRALIZATION TANK (JIM BOILER WORKS NB-2)
③ FREE STANDING WATER HEATER ASSEMBLY WITH FACTORY GAS, CH, AND HW MANIFOLD.

SUBSTITITUE MANUFACTURERS:
- RINNAI #CXI98
- INTELLIHOT #I200

FIXTURE SCHEDULE

TAG	FIXTURE	H.W	C.W	WASTE	TRAP	MTD. HEIGHT
P-1	LAVATORY (ADA)	1/2"	1/2"	2"	1-1/4"	SEE "A" DWGS



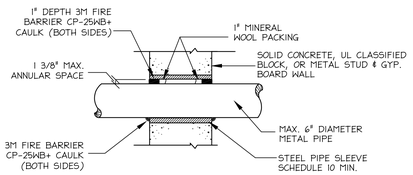
APPLICATION DETAILS

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE REQUIREMENT IS 5/8". MAXIMUM ANNULAR SPACE ALLOWABLE IS 7/8".
3. RECESS A NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL FIRE SAFING, 1" FROM THE WALL SURFACE.
4. FILL THE ANNULAR SPACE AROUND THE PIPE WITH A MINIMUM 1" DEPTH OF FIRE BARRIER CAULK. (SEE UL SYSTEM DETAIL FOR CAULK TYPE.)

NOTE: FOR PIPE INSULATED WITH RUBBER BASED FLEXIBLE INSULATION, INSTALL A FIBERGLASS INSERT AT THE FIRE WALL PENETRATION IN LIEU OF THE FLEXIBLE RUBBER INSULATION. (THE FIBERGLASS INSERT SHALL BE THE SAME THICKNESS AS THE RUBBER BASED INSULATION.) THE FIBERGLASS INSERT SHALL EXTEND 6" (MIN.) ON EACH SIDE OF FIRE WALL.

INSULATED PIPE (1, 2, 3 OR 4 HR)
UL SYSTEM #CBJ5002
(FOR PIPING LARGER THAN 6" USE UL SYSTEM #CBJ5003)

DETAIL OF PIPE PENETRATION OF ALL FIRE RATED FLOORS & PARTITIONS
NO SCALE



APPLICATION DETAILS

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE REQUIREMENT IS ZERO, POINT CONTACT. MAXIMUM ANNULAR SPACE ALLOWABLE IS 1 3/8".
3. RECESS A NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL FIRE SAFING, 1" FROM THE WALL SURFACE.
4. FILL THE ANNULAR SPACE AROUND THE PIPE WITH A MINIMUM 1" DEPTH OF 3M FIRE BARRIER CP-25WB+ CAULK.

UNINSULATED PIPE (1, 2, 3, OR 4 HR)
(UL SYSTEM #CAJ1044)

DETAIL OF PIPE PENETRATION OF ALL FIRE RATED FLOORS & PARTITIONS
NO SCALE

WATER HEATER DETAIL
NO SCALE

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 19785 STATE OF SOUTH CAROLINA SHANE T. BULMAN 5/11/2026

SOUTH CAROLINA CROW & BULMAN ENGINEERING NO. C00486 CERTIFICATE OF AUTHORIZATION

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/2026	OSE COMMENTS

ISSUE:	OSE CD
DATE:	5/1/2026
PROJECT NO:	26010
DRAWN BY:	STB
CHECKED BY:	STB

PLUMBING SCHEDULES & DETAILS

P201

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE 2020 VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES, LAWS, AND ORDINANCES. WHERE ONE CODE DIFFERS FROM ANOTHER, THE STRICTER OF THE TWO SHALL APPLY.
2. IT IS THE DUTY OF THE ELECTRICAL CONTRACTOR TO BE FAMILIAR WITH THE CONSTRUCTION DETAILS OF THE BUILDING. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SYSTEM WITH ALL OTHER TRADES AND SHALL COMPLETE THE ELECTRICAL INSTALLATION AS SOON AS CONDITIONS WILL ALLOW.
3. ALL WORK SHALL BE DONE IN A NEAT, QUALITY MANNER WITH ALL WIRING AND RACEWAYS CONCEALED.
4. ALL ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES WORKING ON THE PREMISES.
5. ELECTRICAL CONTRACTOR SHALL CONTACT THE ARCHITECT AFTER INSTALLATION OF ALL SWITCH, RECEPTACLE, TELEPHONE, TELEVISION, AND LIGHTING BOXES FOR AN ON-SITE REVIEW BEFORE ANY WIRING IS INSTALLED OR WALL SURFACES ARE COMPLETE. THE ARCHITECT MAY, AT THIS POINT, MAKE ADJUSTMENTS TO THE BOX LOCATIONS AS DESIRED.
6. WHERE CONDUIT AND WIRING HAS NOT BEEN SHOWN ON THE DRAWINGS THE ARRANGEMENT AND ROUTING OF LIGHTING AND RECEPTACLE BRANCH CIRCUITS WILL BE AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED GOOD PRACTICE, N.E.C. REQUIREMENTS AND THE FOLLOWING LIMITATIONS:
   A. SIZE BRANCH CIRCUIT CONDUCTORS WITHIN THE FOLLOWING MAXIMUM LENGTH LIMITS: (MEASURE TO THE CENTER OF THE LOAD FOR LIGHTING CIRCUITS AND THE MOST REMOTE OUTLET FOR RECEPTACLE CIRCUITS)

	#12	#10	#8	#6
120V., 20A.	85'	110'	165'	270'
277V., 20A.	160'	250'	390'	600'

7. THIS PROJECT TO MEET NFPA 72 AND ADA REQUIREMENTS REGARDING MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
8. RECESSED LIGHTING FIXTURES MUST HAVE 1/2" CLEARANCE FROM COMBUSTIBLE MATERIALS AND 3" CLEARANCE FROM INSTALLATION OR BE IC RATED PER ARTICLE 410.116 (A) 1 AND 2 AND 410.116 (B) OF THE 2020 NEC.
9. DURING CONSTRUCTION OPERATIONS, THE ELECTRICAL CONTRACTOR SHALL FAITHFULLY MAKE A RECORD OF ALL APPROVED CHANGES FROM THE CONTRACT DRAWINGS, INCLUDING ACCURATE DIMENSIONS WHERE APPLICABLE, AND SHALL ALSO RECORD ACCURATE DIMENSIONS LOCATING ALL BELOW-GRADE OUTSIDE ELECTRICAL UTILITIES (WHETHER CHANGED OR NOT) WITH REFERENCE TO PERMANENT ABOVE-GRADE OBJECTS.
   AT THE COMPLETION OF THE WORK ALL SUCH CHANGES SHALL BE RECORDED NEATLY IN RED INK BY THE ELECTRICAL CONTRACTOR ON AN UNUSED SET OF THE ELECTRICAL CONTRACT DRAWINGS SUPPLIED BY THE ARCHITECT. THE RED LINE CHANGES SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND THE COMPLETED RECORD PRINTS RETURNED TO THE ARCHITECT.
10. MINIMUM SIZE CONDUIT FOR 20A CIRCUITS IS 3/4" CONDUIT FOR METALLIC AND PVC CONDUIT.
11. ALL PRE-WIRED EQUIPMENT MUST BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY PER ARTICLE 110.3 (A AND B) OF THE 2020 NEC.
12. THE TERMINATION PROVISIONS OF EQUIPMENT MUST BE USED IN DETERMINING THE AMPACITIES OF CONDUCTORS BASED ON TABLE 310.16 REGARDLESS OF THE INSTALLATION RATING OF THE CONDUCTORS PER ARTICLE 110.14 (C) 1 AND 2 OF THE 2020 NEC.
13. FLASH PROTECTION WARNING LABELS REQUIRED ON SWITCHBOARDS, PANEL BOARDS, AND MOTOR CONTROL CENTERS PER ARTICLE 110.16 OF THE 2020 NEC.
14. SPACES ABOUT ELECTRICAL EQUIPMENT MUST MEET 110.26 (A THROUGH F) ARTICLE 2020 NEC.
15. RACEWAYS AND CABLES INSTALLED ABOVE SUSPENDED CEILING REQUIRED TO HAVE INDEPENDENT SUPPORT WIRES. CEILINGS GRID WIRES CANNOT BE USED TO SUPPORT RACEWAY AND CABLES UNLESS CEILING GRID IS RATED FOR SUPPORT PER ARTICLE 300.11 OF THE 2020 NEC.
16. TYPE NM, NMC AND NMS CABLES CANNOT BE USED ABOVE SUSPENDED CEILINGS PER ARTICLE 334.12 OF THE 2020 NEC.
17. FLEXIBLE CORDS CANNOT BE USED AS A SUBSTITUTE FOR FIXED WIRE OR CONCEALED ABOVE SUSPENDED CEILING PER ARTICLE 400.8 (1) AND (5) PER THE 2020 NEC.
18. INDIVIDUAL UNIT EQUIPMENT USED FOR EXIT SIGNS AND EMERGENCY LIGHTS THAT USES A RECHARGEABLE BATTERY MUST BE SUPPLIED BY THE CIRCUIT THAT SUPPLIES THE NORMAL LIGHTING FOR THAT AREA PER ARTICLE 700.12 (F) AND 700.17 OF THE 2020 NEC.

POWER LEGEND

- 20A, 125V, 2P, NEMA 5-20R DUPLEX RECEPTACLE
- QUADRAPLEX OUTLET,(2 DUPLEX OUTLETS IN 2 GANG BOX WITH 2 GANG COVER PLATE
- 20A, 125V, 2P, 3W, NEMA 5-20R DUPLEX RECEPTACLE MOUNT 6" ABOVE COUNTER TO BOTTOM OF OUTLET BOX.
- FED-SPEC GRADE USB CHARGER WITH TAMPER-RESISTANT DUPLEX RECEPTACLE WIREMOLD #TR5262USB-IVORY OR APPROVED EQUAL.
- TYPICAL DATA/COMM OUTLET DOUBLE GANG OUTLET BOX WITH SINGLE GANG MUD RING. ROUTE 3/4 INCH CONDUIT TO ABOVE CEILING SPACE. PROVIDE PULL STRING. COMMUNICATIONS CONTRACTOR TO PROVIDE FACE PLATE, WIRING, AND FINAL CONNECTIONS.
- G — ADJACENT TO RECEPTACLE DENOTES GROUND FAULT INTERUPTER OUTLET, (FEED THRU TYPE).
- WP — ADJACENT TO RECEPTACLE INDICATES WEATHERPROOF IN-USE TYPE COVER.
- WR — ADJACENT TO RECEPTACLE INDICATES WEATHER RESISTANT TYPE RECEPTACLE.
- J — JUNCTION BOX
- LIGHTING OR RECEPTACLE PANEL BOARD.
- 30A/3P — DISCONNECT SWITCH.
- 30A/F/3P/3R — FUSED DISCONNECT SWITCH.
- FWE — DISCONNECT FURNISHED WITH EQUIPMENT
- SM — MOTOR RATED SWITCH, CONTINUOUS CURRENT RATED, QUANITY OF POLES AS REQUIRED
- EF — EXHAUST FAN.
- M 2HP — SEE MECHANICAL DWGS. FOR FAN SPECIFICATIONS. MOTOR, HORSEPOWER AS SHOWN.
- B-25 — "HOME-RUN" TO PANEL BOARD.

ELECTRICAL INFORMATION

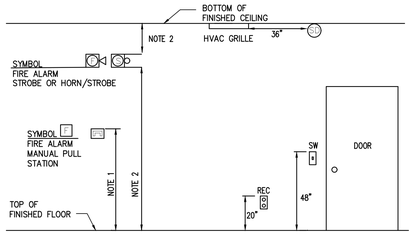
SERVICE TRANSFORMER	☐ By Utility	
	☒ By College	750 KVA Primary
		12470V
ELECTRICAL SERVICE INFORMATION		
Service Voltage		12470V
Service Entrance Conductors Size		#1 AWG
Total Connected Load		360
Estimated Maximum Demand		300
Available Fault Current in Symmetrical Amperes		
Interrupting Capacity of Service Overcurrent Device		
GROUNDING ELECTRODE SYSTEM COMPONENTS (NEC 250)		Existing
EMERGENCY SERVICE INFORMATION		
Emergency Generator	☒ No ☐ Yes	
Fuel		
Exit/Emergency Lights Backup Power		☒ Integral Battery ☐ Generator
Fire Alarm System	☐ Manual ☒ Automatic	☒ Addressable ☐ Class A ☒ Class B
LIGHTNING PROTECTION PROVIDED		☒ No ☐ Yes

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP	MANUFACTURER PART #	KELVIN	VOLTAGE	WATTAGE	MOUNTING	COMMENTS
A	2'X4' LED TROFFER (4,900 LUMENS)	LED	COLUMBIA LIGHTING CATALOG #LCAT24-35MLG-EDU METALUX LIGHTING CATALOG #24C22-50-UNV-L835-CD1-U H.E. WILLIAMS LIGHTING CATALOG #LT-24-L52/835-AF-DIM-UNV	3500K	277	36	RECESSED MOUNTED	
AE	SAME AS TYPE 'A' ABOVE EXCEPT WITH BATTERY BACK-UP							
B	2'X4' LED FLAT PANEL (4,600 LUMENS)	LED	ILP LIGHTING CATALOG #VPAN24-44L-U-35 METALUX LIGHTING CATALOG #24FP4735C COLUMBIA LIGHTING CATALOG #CFP24-55/41/3435	3500K	277	42	RECESSED MOUNTED	
BE	SAME AS TYPE 'B' ABOVE EXCEPT WITH BATTERY BACK-UP							
C	4' LED SURFACE MOUNTED WRAPAROUND FIXTURE (5,600 LUMENS)	LED	COLUMBIA LIGHTING CATALOG #RLW4-35HL-FAW-EDU METALUX LIGHTING CATALOG #4WSNLED-LD4-56HL-F-UNV-L835-CD1-U ILP LIGHTING CATALOG #TWS-55WLED-UNV-35	3500K	277	48	SURFACE MOUNTED	
CE	SAME AS TYPE 'C' ABOVE EXCEPT WITH BATTERY BACK-UP							
EX1	THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACKUP	LED	LIGHTALARMS LIGHTING CATALOG #QLXN500RN EMERGI-LITE LIGHTING CATALOG #ELXN400RN SURE-LITES LIGHTING CATALOG #APX7R		277	3	SURFACE MOUNTED	
EX2	DUAL SIDED THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACKUP	LED	LIGHTALARMS LIGHTING CATALOG #QLXN500RN EMERGI-LITE LIGHTING CATALOG #ELXN400RN SURE-LITES LIGHTING CATALOG #APX7R		277	3	SURFACE MOUNTED	
GE	OUTDOOR RATED LED 6" DOWNLIGHT WITH BATTERY BACKUP (2,000 LUMENS)	LED	SPECTRUM LIGHTING CATALOG #SGRTE6LEDOS-20L-40K-E-2-EMIT-AR622305-S6-EMT PATHWAY LIGHTING CATALOG #RMD6LBV-204K-E2-M4-EM H.E. WILLIAMS LIGHTING CATALOG #GDR-TL-L20/840-EM/7W-DIM-UNV-OW-OF-CS-R	4000K	277	20	RECESSED MOUNTED	

NOTES:

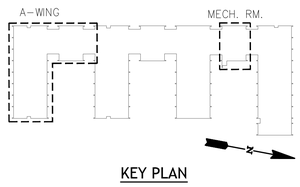
1. COORDINATE LED COLOR TEMPERATURE WITH OWNER PRIOR TO PURCHASING AND INSTALLING.
2. COORDINATE FINISHES WITH OWNER PRIOR TO PURCHASING AND INSTALLING.
3. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO PURCHASING AND INSTALLING.
4. LIGHTING FIXTURES MANUFACTURER SHALL BE PROVIDED AS SPECIFIED, UNLESS PRE-APPROVED DURING BIDDING BY THE OWNER/ENGINEER.
5. VERIFY VOLTAGE REQUIREMENTS WITH RESPECT TO FLOOR PLAN CIRCUITING AND PANEL SCHEDULES.
6. BATTERY PACKS FOR ALL EXIT AND EMERGENCY LIGHT FIXTURES SHALL BE CAPABLE OF PROVIDING EMERGENCY POWER TO THE FIXTURES FOR A MINIMUM OF 90 MINUTES.



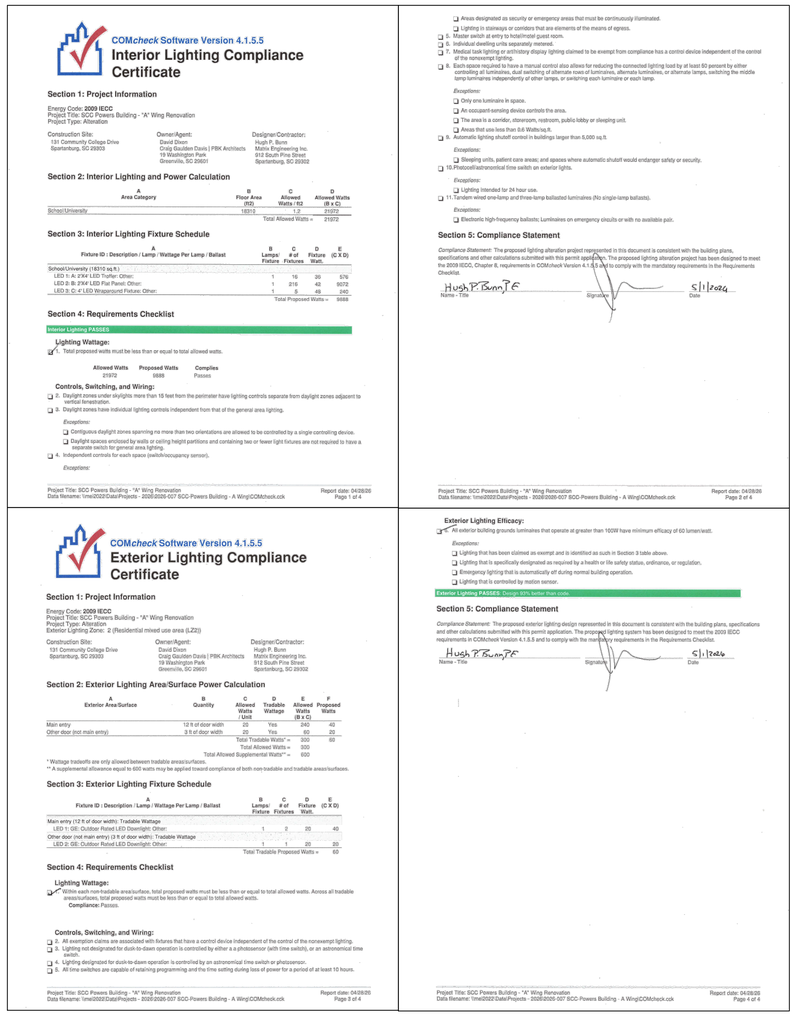
TYPICAL DEVICE MOUNTING HEIGHT
SCALE: NONE

MOUNTING NOTES:

1. MOUNT PULL STATION 4'-0"AFF TO THE TOP OF BOX.
2. MOUNT STROBE OR SPEAKER/HORN COMBINATION AT LEAST 80"AFF AND NOT MORE THAN 96"AFF. MOUNT DEVICE AT LEAST 6" DOWN FROM CEILING.



KEY PLAN



COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Section 1: Project Information
Energy Code: 2009 IECC
Project Title: SCC Powers Building - "A" Wing Renovation
Project Type: Alteration
Construction Site: 131 Community College Drive, Spartanburg, SC 29303
Owner/Agent: David Dixon, Craig Gaulden Davis | PBK Architects, 19 Washington Park, Greenville, SC 29601
Designer/Contractor: Hugh P. Bunn, Matrix Engineering Inc., 912 South Pine Street, Spartanburg, SC 29302

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
School/University	18013	1.2	21972
		Total Allowed Watts =	21972

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
School/University (18310 sq.ft.)				
LED 1: A: 2'X4' LED Troffer-Other:	1	16	36	576
LED 2: B: 2'X4' LED Flat Panel: Other:	1	216	43	9072
LED 3: C: 4' LED Wraparound Fixture: Other:	1	5	49	240
			Total Proposed Watts =	9888

Section 4: Requirements Checklist
Interior Lighting PASSES
Lighting Wattage:
☑ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
21972	9888	Passes

Controls, Switching, and Wiring:
☐ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.
☐ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.
Exceptions:
☐ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.
☐ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.
☐ 4. Independent controls for each space (switch/occupancy sensor).
Exceptions:

Project Title: SCC Powers Building - "A" Wing Renovation
Data filename: \\me\2022\Data\Projects - 2020\2026-007 SCC-Powers Building - A Wing\COMcheck.cck
Report date: 04/28/26
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☐ Areas designated as security or emergency areas that must be continuously illuminated.
☐ Lighting in stairways or corridors that are elements of the means of egress.
☐ 5. Master switch at entry to hotel/motel guest room.
☐ 6. Individual dwelling units separately metered.
☐ 7. Medical task lighting or art/historic display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.
☐ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.
Exceptions:
☐ Only one luminaire in space.
☐ An occupant-sensing device controls the area.
☐ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.
☐ Areas that are less than 0.6 Watts/sq.ft.
☐ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.
Exceptions:
☐ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.
☐ 10. Photocell/astronomical time switch on exterior lights.
Exceptions:
☐ Lighting intended for 24 hour use.
☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).
Exceptions:
☐ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 5: Compliance Statement
Compliance Statement: The proposed lighting alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting alteration project has been designed to meet the 2009 IECC, Chapter 8, requirements in COMcheck Version 4.1.5.5 and to comply with the mandatory requirements in the Requirements Checklist.
Hugh P Bunn PE — Name - Title
Signature
5/1/2026 — Date

Project Title: SCC Powers Building - "A" Wing Renovation
Data filename: \\me\2022\Data\Projects - 2020\2026-007 SCC-Powers Building - A Wing\COMcheck.cck
Report date: 04/28/26
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COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Section 1: Project Information
Energy Code: 2009 IECC
Project Title: SCC Powers Building - "A" Wing Renovation
Project Type: Alteration
Exterior Lighting Zone: 2 (Residential mixed use area (LZ2))
Construction Site: 131 Community College Drive, Spartanburg, SC 29303
Owner/Agent: David Dixon, Craig Gaulden Davis | PBK Architects, 19 Washington Park, Greenville, SC 29601
Designer/Contractor: Hugh P. Bunn, Matrix Engineering Inc., 912 South Pine Street, Spartanburg, SC 29302

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
Main entry	12 ft of door width	20	Yes	240	40
Other door (not main entry)	3 ft of door width	20	Yes	60	20
			Total Tradable Watts* =	300	60
			Total Allowed Watts =	300	
			Total Allowed Supplemental Watts** =	600	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Main entry (12 ft of door width): Tradable Wattage				
LED 1: GE: Outdoor Rated LED Downlight: Other:	1	2	20	40
Other door (not main entry) (3 ft of door width): Tradable Wattage				
LED 2: GE: Outdoor Rated LED Downlight: Other:	1	1	20	20
			Total Tradable Proposed Watts =	60

Section 4: Requirements Checklist
Lighting Wattage:
☑ Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.
Compliance: Passes.

Controls, Switching, and Wiring:
☐ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.
☐ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time switch.
☐ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.
☐ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Project Title: SCC Powers Building - "A" Wing Renovation
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Exterior Lighting Efficacy:
☐ All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.
Exceptions:
☐ Lighting that has been claimed as exempt and is identified as such in Section 3 table above.
☐ Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation.
☐ Emergency lighting that is automatically off during normal building operation.
☐ Lighting that is controlled by motion sensor.
Exterior Lighting PASSES: Design 50% better than code.

Section 5: Compliance Statement
Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.1.5.5 and to comply with the mandatory requirements in the Requirements Checklist.
Hugh P Bunn PE — Name - Title
Signature
5/1/2026 — Date

Project Title: SCC Powers Building - "A" Wing Renovation
Data filename: \\me\2022\Data\Projects - 2020\2026-007 SCC-Powers Building - A Wing\COMcheck.cck
Report date: 04/28/26
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Greenville, SC 29601
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E-mail cgd@cgdarch.com

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SOUTH CAROLINA — MATRIX ENGINEERING INC. — No. C01034 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 9801 — HUGH P. BUNN — NOT VALID WITHOUT ORIGINAL SIGNATURE AND SEAL — 05-01-2026

CONSULTANT

MATRIX
ENGINEERING, INC.
912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2026-007

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION

ISSUE:	CD
DATE:	5/01/26
PROJECT NO:	26010
DRAWN BY:	NT
CHECKED BY:	HPB

GENERAL NOTES, LEGENDS, FIXTURE SCHEDULE & COMcheck

E001

7 6 5 4 3 2 1

F E D C B A

EXISTING PANEL "EP3"

208/120 VOLT, 100 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
GENERAL ELECTRIC CATALOG #NLAB

CONN LOAD	CIRCUIT USE	S/N	100A M. L. O.	S/N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
180	REC-CLASSROOM A15	1		2	REC-CLASSROOM A1	180	360		
2100	CHILLED WATER PIPING HEAT TRACE (ROOF)	3		4	SPARE 20A BREAKER			2100	
	SPARE 20A BREAKER	5		6	SPARE 20A BREAKER				
180	REC-CLASSROOM A5S	7		8	REC-CLASSROOM A7	180	360		
180	REC-CLASSROOM A5	9		10	REC-CLASSROOM A4	180		360	
180	REC-CLASSROOM A6	11		12	REC-CLASSROOM A8	180			360
180	REC-CLASSROOM A10	13		14	REC-CLASSROOM A9	180	360		
180	REC-CLASSROOM A12	15		16	REC-CLASSROOM A13	180		360	
180	REC-CLASSROOM A13	17		18	REC-CLASSROOM A17	180			360
	EXISTING PREPARED SPACE	19		20	EXISTING PREPARED SPACE				
	EXISTING PREPARED SPACE	21		22	EXISTING PREPARED SPACE				
	EXISTING PREPARED SPACE	23		24	EXISTING PREPARED SPACE				

PHASE A	1080		
PHASE B		2820	
PHASE C			720
TOTAL VA	4620		
CONNECTED AMPERAGE	13 AMPERES		

NOTES:

1. PROVIDE UPDATED TYPED PANEL SCHEDULE.
2. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.

GFPE DENOTES GROUND FAULT PROTECTION OF EQUIPMENT BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.

EXISTING PANEL "LP4"

480/277 VOLT, 225 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE, RECESSED MOUNTED
GE CATALOG #NHB

CONN LOAD	CIRCUIT USE	S/N	225A M. L. O.	S/N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
504	LTG-A1	1		2	LTG-A2	378	882		
672	LTG-A3, A5	3		4	LTG-A4	378		1050	
588	LTG-A7	5		6	LTG-A6	378			966
630	LTG-A10	7		8	LTG-A8	378	1008		
516	LTG-A11 AND HALL (FRONT)	9		10	LTG-A9	378		894	
588	LTG-A14	11		12	LTG-A12	378			966
504	LTG-A17, A21, A22, A24	13		14	LTG-A13	630	1134		
336	LTG-A25, A27, A29	15		16	EXISTING 20A SPARE BREAKER			336	
252	LTG-A20, A23, A30, A31, A32	17		18	LTG-A15	504			756
336	LTG-A34, A35, A36, A37	19		20	LTG-A19A	378	714		
336	LTG-A HALL FROM A15 TO A39	21		22	LTG-A19B	504		840	
	EXISTING 20A SPARE BREAKER	23		24	LTG-A33, A38	294			294
	EXISTING 20A SPARE BREAKER	25		26	LTG-HALL LIGHT @ A13	300	300		
420	LTG-EMG. HALL LIGHTS	27		28	EXISTING 20A SPARE BREAKER			420	
3324	EX. AWNG R/R HEATERS	29		30	EXISTING 20A SPARE BREAKER				3324

PHASE A	4038		
PHASE B		3540	
PHASE C			6306
TOTAL VA	13884		
CONNECTED AMPERAGE	17 AMPERES		

NOTES:

1. PROVIDE UPDATED TYPED PANEL SCHEDULE.
2. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.

EXISTING PANEL "RP6"

208/120 VOLT, 125 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE, RECESSED MOUNTED
GE CATALOG #NLAB

CONN LOAD	CIRCUIT USE	S/N	125A M. L. O.	S/N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
750	EXISTING 20A BREAKER	1		2	EX. SPARE 20A BREAKER		750		
750	EX. REC-A5	3		4	EXISTING 20A BREAKER	750		1500	
750	EX. REC-A1, A3	5		6	EX. REC-A1, A5, A7, A2, A4	750			1500
750	EX. REC-A6, A8, A8 HALL, A2	7		8	EX. REC-A13	750	1500		
750	EX. REC-HALL @A13, 5, 7, 9, 12	9		10	EX. REC-A13	750		1500	
750	EX. REC-A7	11		12	EX. REC-A13, PLUGMOLD A15	750			1500
750	EX. REC-A14	13		14	EX. REC-A13, REC OUTSIDE	750	1500		
750	EX. REC-A10	15		16	EX. REC-A17, A21, A22	750		1500	
750	EX. REC-A14	17		18	EX. REC-A25, A26, A27	750			1500
750	EX. REC-A10	19		20	EX. REC-A24, A30, A28	750	1500		
279	RR EXHAUST FAN	21		22	EX. REC-A32, A35, A37	750		1029	
750	EX. WOMENS RR A-WING	23		24	EX. REC-A36	750			1500
750	EX. MENS RR A-WING	25		26	EXISTING 20A BREAKER	750	1500		
750	EXISTING 20A BREAKER	27		28	EX. REC-A28, A29, A31	750		1500	
750	EXISTING 20A BREAKER	29		30	LTG-A26	750			1500
750	EX. REC-A20, A20A, B11	31		32	EXISTING 20A BREAKER	750	1500		
750	EX. REC-A38	33		34	EX. REC-A15	750		1500	
750	EX. REC-A39, B9	35		36	EXISTING 20A BREAKER	750			1500
5044	EXISTING 70A BREAKER	37	70A	38	EX. REC-A19A, A19B, A38	750	5794		
5044		39		40	EX. REC-WATER COOLER @RR	750		5794	
5044		41		42	EX. REC-WATER COOLER IN HALL	750			5794

PHASE A	14044		
PHASE B		14323	
PHASE C			14794
TOTAL VA	43161		
CONNECTED AMPERAGE	120 AMPERES		

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE UPDATED TYPED PANEL SCHEDULE.

EXISTING PANEL "H2"

480/277 VOLT, 225 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
EATON CATALOG #PRL2a

CONN LOAD	CIRCUIT USE	S/N	225A M. L. O.	S/N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
14133	EX. RTU-B	1	110A	2	EX. EXHAUST FANS (B2,B3)	1409	15542		
14133		3		4		1409		15542	
14133		5		6		1409			15542
	EX. PREPARED SPACE ONLY	7		8	EX. EXHAUST FANS (B4,B5,B6)	2113	2113		
	EX. PREPARED SPACE ONLY	9		10		2113		2113	
	EX. PREPARED SPACE ONLY	11		12		2113			2113
582	EX. EXHAUST FAN (B9)	13		14	EX. EXHAUST FAN (B7)	1357	1939		
582		15		16	EX. EXHAUST FAN (B8)	1357		1939	
582		17		18	EXISTING PANEL "V2"	19290			19872
2107	EX. EXHAUST FAN (EF-B10)	19		20		18897	21004		
2107		21		22		20272		22379	
2107		23		24	EX. SHUNT TRIP (S/T)				2107
	EX. PREPARED SPACE ONLY	25		26	EX. LIGHTING CONTROL PANEL				
	EX. PREPARED SPACE ONLY	27		28	EX. PREPARED SPACE ONLY				
	EX. PREPARED SPACE ONLY	29		30	EX. PREPARED SPACE ONLY				
	EX. PREPARED SPACE ONLY	31		32	EX. PREPARED SPACE ONLY				
	EX. PREPARED SPACE ONLY	33		34	EX. PREPARED SPACE ONLY				
	EX. PREPARED SPACE ONLY	35		36	EX. PREPARED SPACE ONLY				
	EX. PREPARED SPACE ONLY	37	100A	38	NEW PANEL "H3"	14989	14989		
	EX. PREPARED SPACE ONLY	39		40		14989		14989	
	EX. PREPARED SPACE ONLY	41		42		14989			14989

PHASE A	55587		
PHASE B		56962	
PHASE C			54623
TOTAL VA	167172		
CONNECTED AMPERAGE	202 AMPERES		

NOTES:

1. PROVIDE UPDATED TYPED PANEL SCHEDULE.
2. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.

S/T – DENOTES SHUNT TRIP CIRCUIT BREAKER

* DENOTES NEW CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.

EXISTING PANEL "V2"

480/277 VOLT, 100 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
GE CATALOG #AEF34211MBX

CONN LOAD	CIRCUIT USE	S/N	100A M. L. O.	S/N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
3164	EX. T-B1 & T-B1S	1		2	EX. SPARE 20A BREAKER		3164		
3968	EX. T-B2, T-B3, T-B13	3		4	EX. SPARE 20A BREAKER			3968	
4412	EX. T-B4, T-B6, T-B7	5		6	EX. SPARE 20A BREAKER				4412
4051	EX. T-B5 & T-B10	7		8	EX. SPARE 20A BREAKER		4051		
3968	EX. T-B8, T-B9, T-B14	9		10	EX. SPARE 20A BREAKER			3968	
4051	EX. T-B11 & T-B12	11		12	EX. SPARE 20A BREAKER				4051
3165	EX. T-B17 & T-B17S	13		14	EX. PREPARED SPACE ONLY		3165		
2051	EX. T-B16 & T-B20	15		16	EX. PREPARED SPACE ONLY			2051	
2611	EX. T-B21 & T-B22	17		18	EX. PREPARED SPACE ONLY				2611
	EX. SPARE 20A BREAKER	19		20	EX. PREPARED SPACE ONLY				
	EX. SPARE 20A BREAKER	21		22	EX. PREPARED SPACE ONLY				
	EX. SPARE 20A BREAKER	23		24	EX. PREPARED SPACE ONLY				
	EX. SPARE 20A BREAKER	25		26	EX. PREPARED SPACE ONLY				
	EX. SPARE 20A BREAKER	27		28	EX. PREPARED SPACE ONLY				
	EX. SPARE 20A BREAKER	29		30	EX. PREPARED SPACE ONLY				
	EX. PREPARED SPACE ONLY	31		32	EX. PREPARED SPACE ONLY				
	EX. PREPARED SPACE ONLY	33		34	EX. PREPARED SPACE ONLY				
	EX. PREPARED SPACE ONLY	35		36	EX. PREPARED SPACE ONLY				
	EX. PREPARED SPACE ONLY	37	60A	38	NEW PANEL "V3"	8910	8910		
	EX. PREPARED SPACE ONLY	39		40		8910		8910	
	EX. PREPARED SPACE ONLY	41		42		9198			9198

PHASE A	19290		
PHASE B		18897	
PHASE C			20272
TOTAL VA	58459		
CONNECTED AMPERAGE	71 AMPERES		

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE UPDATED TYPED PANEL SCHEDULE.

* DENOTES NEW CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.

NEW PANEL "H3"

480/277 VOLT, 100 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 14 KAIC

CONN LOAD	CIRCUIT USE	S/N	100A M. L. O.	S/N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
11529	RTU-A	1	90A	2	EF-A1	1730	13259		
11529		3		4		1730		13259	
11529		5		6		1730			13259
	PREPARED SPACE ONLY	7		8	EF-A2	1730	1730		
	PREPARED SPACE ONLY	9		10		1730		1730	
	PREPARED SPACE ONLY	11		12		1730			1730
	PREPARED SPACE ONLY	13		14	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	15		16	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	17		18	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	19		20	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	21		22	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	23		24	PREPARED SPACE ONLY				

PHASE A	14989		
PHASE B		14989	
PHASE C			14989
TOTAL VA	44967		
CONNECTED AMPERAGE	55 AMPERES		

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE.

EXISTING PANEL "EP1"

208/120 VOLT, 100 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
GE CATALOG #NLAB

CONN LOAD	CIRCUIT USE	S/N	100A M. L. O.	S/N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
	EXISTING SPARE 20A BREAKER	1	225A	2	WH-1 (MECH. RM D25)	200	200		
750	EXISTING HEAT TAPE	3		4	WH-2 (MECH. RM D25)	200		950	
	EXISTING SPARE 20A BREAKER	5		6	FUTURE WH-3 (MECH. RM D25)	200			200
	EXISTING SPARE 20A BREAKER	7	15A	8	WH-1 & 2 CIRCULATOR	408	408		
	EXISTING SPARE 20A BREAKER	9	15A	10		408		408	
1442	EXISTING EXHAUST FAN C-2	11		12	EXISTING SPARE 20A BREAKER				1442
1442		13		14	EXISTING SPARE 20A BREAKER		1442		
1442		15		16	EXISTING SPARE 20A BREAKER			1442	
	EXISTING PREPARED SPACE	17		18	EXISTING SPARE 20A BREAKER				
	EXISTING PREPARED SPACE	19		20	EXISTING PREPARED SPACE				
	EXISTING PREPARED SPACE	21		22	EXISTING PREPARED SPACE				
	EXISTING PREPARED SPACE	23		24	EXISTING PREPARED SPACE				

PHASE A	2050		
PHASE B		2800	
PHASE C			1642
TOTAL VA	6492		
CONNECTED AMPERAGE	19 AMPERES		

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE UPDATED TYPED PANEL SCHEDULE.

* DENOTES NEW CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.

EXISTING PANEL "V"

480/277 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
SQUARE D PANELBOARD

CONN LOAD	CIRCUIT USE	S/N	250A M. L. O.	S/N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
3324	EX. T1-2	1		2	EX. C04, C07	3324	6648		
3324	EX. T2S-3-4-105	3		4	EX. C05	3324		6648	
3324	EX. T6-6A-70	5		6	EX. C08, C09	3324			6648
3324	EX. T7-8-9	7		8	EX. C11	3324	6648		
3324	EX. 10-13-14	9		10	EX. C12, C12	3324		6648	
3324	EX. 12-15-16-193	11		12	EX. C15	3324			6648
3324	EX. T14-17-19-24	13		14	EX. C16	3324	6648		
2493	EX. TD 136	15	15A	16	EX. C17	3324		5817	
2493	EX. TD 137	17	15A	18	EX. C18	3324			5817
2493	EX. TD 138	19	15A	20	EX. C19, C20	3324	5817		
	EX. PREPARED SPACE ONLY	21		22	EX. C21	3324		3324	
	EX. PREPARED SPACE ONLY	23		24	EX. C22	3324			3324
5000	ELECTRIC UNIT HEATER (EH-1)	25	25A	26	EX. T-C02, T-C03	2493	7493		
1685	NEW BOILER (B-1)	27	15A	28	EX. T-C01	2493		4178	
1685		29	15A	30	EX. T-C10	2493			4178
1685		31		32	NEW BOILER PUMP (P-6)	2661	4346		
	SHUNT TRIP SPACE	33	S/T	34		2661		2661	
1685	NEW BOILER (B-2)	35	15A	36		2661			4346
1685		37		38	NEW BOILER PUMP (P-7)	2661	4346		
1685		39		40		2661		4346	
	SHUNT TRIP SPACE	41	S/T	42		2661			2661

PHASE A	41946		
PHASE B		33622	
PHASE C			33622
TOTAL VA	109190		
CONNECTED AMPERAGE	132 AMPERES		

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE UPDATED TYPED PANEL SCHEDULE.

* DENOTES NEW CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.

S/T DENOTES SHUNT TRIP BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR.

NEW PANEL "V3"

480/277 VOLT, 60 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 14 KAIC

CONN LOAD	CIRCUIT USE	S/N	60A M. L. O.	S/N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
2970	T-A1, T-A2, & T-A18	1		2	SPARE 20A BREAKER		2970		
3258	T-A4, T-A6, & T-A8	3		4	SPARE 20A BREAKER			3258	
2970	T-A3, T-A5, & T-A7	5		6	SPARE 20A BREAKER				2970
3258	T-A9, T-A12, & T-A13	7		8	SPARE 20A BREAKER		3258		
2970	T-A10, T-A11, & T-A14	9		10	SPARE 20A BREAKER			2970	
3258	T-A15, T-A16, & T-A17	11		12	SPARE 20A BREAKER				3258
2682	T-A20, T-A21, & T-A23	13		14	PREPARED SPACE ONLY		2682		
2682	T-A24, T-A25, & T-A26	15		16	PREPARED SPACE ONLY			2682	
2970	T-A19, T-A22, & T-A27	17		18	PREPARED SPACE ONLY				2970
	SPARE 20A BREAKER	19		20	PREPARED SPACE ONLY				
	SPARE 20A BREAKER	21		22	PREPARED SPACE ONLY				
	SPARE 20A BREAKER	23		24	PREPARED SPACE ONLY				

PHASE A	8910		
PHASE B		8910	
PHASE C			9198
TOTAL VA	27018		
CONNECTED AMPERAGE	33 AMPERES		

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE.

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — MATRIX ENGINEERING INC. No. C01034

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — No. 9801 — 05-01-2026

CONSULTANT

MATRIX
ENGINEERING, INC.
912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2026-007

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION

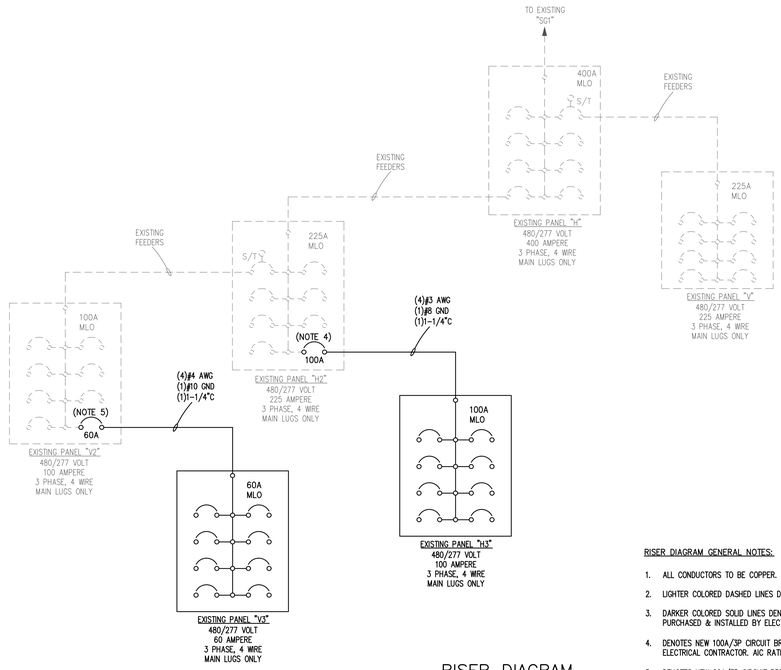
ISSUE:	CD
DATE:	5/01/26
PROJECT NO:	26010
DRAWN BY:	NT
CHECKED BY:	HPB

PANEL SCHEDULES

E002

F E D C B A

7 6 5 4 3 2 1



RISER DIAGRAM
NO SCALE

RISER DIAGRAM GENERAL NOTES:

1. ALL CONDUCTORS TO BE COPPER.
2. LIGHTER COLORED DASHED LINES DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
3. DARKER COLORED SOLID LINES DENOTES NEW ELECTRICAL EQUIPMENT TO BE PURCHASED & INSTALLED BY ELECTRICAL CONTRACTOR.
4. DENOTES NEW 100A/3P CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.
5. DENOTES NEW 60A/3P CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HARRY P. BLUNK
05-01-2026

CONSULTANT

MATRIX
ENGINEERING, INC.
912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2026-007

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION

ISSUE:	CD
DATE:	5/01/26
PROJECT NO:	26010
DRAWN BY:	NT
CHECKED BY:	HPB

RISER DIAGRAM

E003

F E D C B A

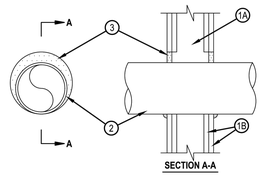
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System No. W-L-1054

WL 1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m2
	L Rating at 204°C — Less Than 5.1 L/s/m2



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

HILTI
Hilti Firestop Systems

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System No. W-L-1054

WL 1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Hilti Firestop Systems

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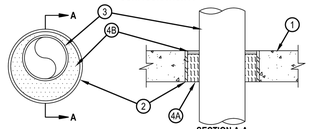
System No. C-AJ-1630

CAJ 1630

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

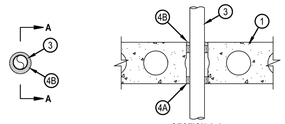
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 2, 3 & 4 Hr (See Item 4)	F Rating — 2, 3 & 4 Hr (See Item 4)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 2, 3 & 4 Hr (See Item 4)
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
W Rating — Class 1 (See Item 4)	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft

CONFIGURATION A



SECTION A-A

CONFIGURATION B



SECTION A-A

1. Floor or Wall Assembly — See Configuration A above. Reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/cu meter) concrete as specified in the Table in Item 4 below. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of sleeved opening is 32 in. (813 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Floor Assembly — See Configuration B above. Min 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. Max diam of opening is 7 in. (178 mm).
   See Precast Concrete Units (CFTV) category in the Fire Resistance Directory for names of manufacturers.

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System No. C-AJ-1630

CAJ 1630

2. Steel Sleeve (Optional) — Nom 32 in. (813 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with both surfaces of floor or wall. As an option, sleeve may extend max 2 in. above top surface of floor or beyond one or both surfaces of wall. Steel sleeve may be used in 2 and 3 hr F Rated systems only.
3. Through Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. See Table in Item 4 for sizes of penetrants A, B, D and E that may be used. See Item 3C below for size of conduit that may be used. The annular space shall be as specified in Table in Item 4 below. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. (152 mm) diam (or smaller) steel conduit.
   D. Copper Tubing — Type L (or heavier) copper tube.
   E. Copper Pipe — Regular (or heavier) copper pipe.
4. Firestop System — The F Rating of the system is dependent upon the type of concrete, thickness of concrete, annular space, fill and packing material thickness, packing material density and penetrant size as shown in the Table below. W Rating applies to annular spaces of min 0 in. (point contact) to max 1-7/8 in. and to Configuration A detail only.

F Rating hr	Min Thick Concrete In. (mm)	Annular Space In. (mm)	Min Thick Packing Mtl In. (mm)	Min Density Packing Mtl pcf (kg/cu meter)	Min Thick Fill Mtl, In. (mm)	Penetrant Size, In. (mm) Diam (or Smaller) D, E Copper	Penetrant Size, In. (mm) Diam (or Smaller) A, B (Steel Iron)
2	5-1/2 (140)	0 to 1-7/8 (0 to 48)	5 (127)	4 (64)	1/2 (13)	4 (102)	16 (406)
3	4-1/2 (114)	0 to 2-1/8 (0 to 54)	4-1/4 (108)	4 (64)	1/4 (6)	6 (152)	30 (762)
4	5-1/2 (140)	0 to 1-7/8 (0 to 48)	5 (127)	4 (64)	1/2 (13)	4 (102)	8 (203)

   A. Packing Material — Min 4-1/4 or 5 in. (108 or 127 mm) thickness of min 4.0 pcf (64 kg/cu meter) mineral wool batt insulation firmly packed into opening as a permanent form as specified in the Table above. Packing material to be recessed from top surface of floor or top end of sleeve, or from both surfaces of wall or ends of sleeve, as required to accommodate the required thickness of fill material. For hollow-core floor applications as shown in Configuration B, one half of the required thickness of mineral wool packing material shall be installed flush with the bottom surface of the floor and the remaining half of the mineral wool packing material installed at the top of the opening and recessed from the top surface of the floor to accommodate the required thickness of the fill material.
   B. Fill, Void or Cavity Material* — Caulk — Min 1/4 or 1/2 in. (6 or 13 mm) thickness of fill material as specified in the Table above applied within the annulus, flush with top surface of floor or top end of sleeve, or with both surfaces of wall or ends of sleeve. At the point contact location between pipe and concrete or sleeve, a min 1/2 in. (13 mm) diam bead of fill material shall be applied. As an option, for hollow-core floors, the packing material (Item 4A) on the bottom surface of the floor may be recessed to accommodate a 1/4 in. (6 mm) depth of fill material installed flush with bottom surface of floor.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-S SIL GG (floors or walls) and CFS-S SIL SL (floors only)

*Bearing the UL Classification Mark

HILTI
Hilti Firestop Systems

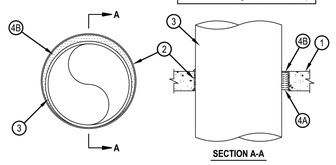
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System No. C-AJ-1226

CAJ 1226

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 3 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in. (813 mm).
2. Metallic Sleeve — (Optional) Nom 32 in. (813 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall.

2A. Sheet Metal Sleeve — (Optional) Max 6 in. (152 mm) diam, min 26 ga. galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and a max of 1 in. (25 mm) above the top surface of the concrete floor.

2B. Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and a max of 1 in. (25 mm) above the top surface of the concrete floor.

3. Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit.
   F. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).

HILTI
Hilti Firestop Systems

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System No. C-AJ-1226

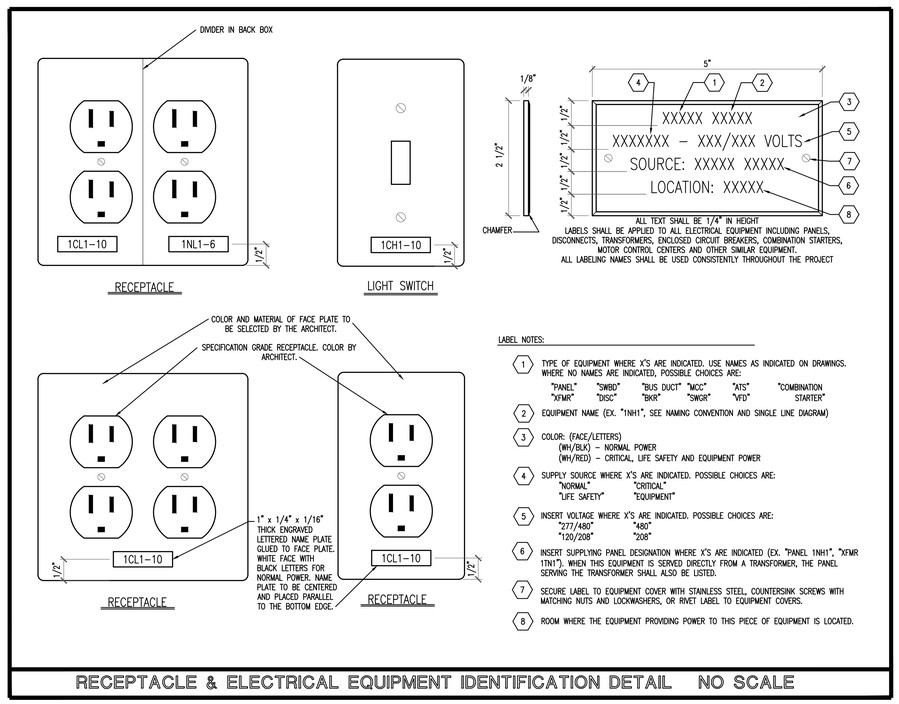
CAJ 1226

4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI
Hilti Firestop Systems

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RECEPTACLE & ELECTRICAL EQUIPMENT IDENTIFICATION DETAIL NO SCALE

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

REGISTERED PROFESSIONAL ENGINEER No. 9801 JOHN H. BLUNDELL 05-01-2026

CONSULTANT

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864.583.6274
Project Number: 2026-007

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION

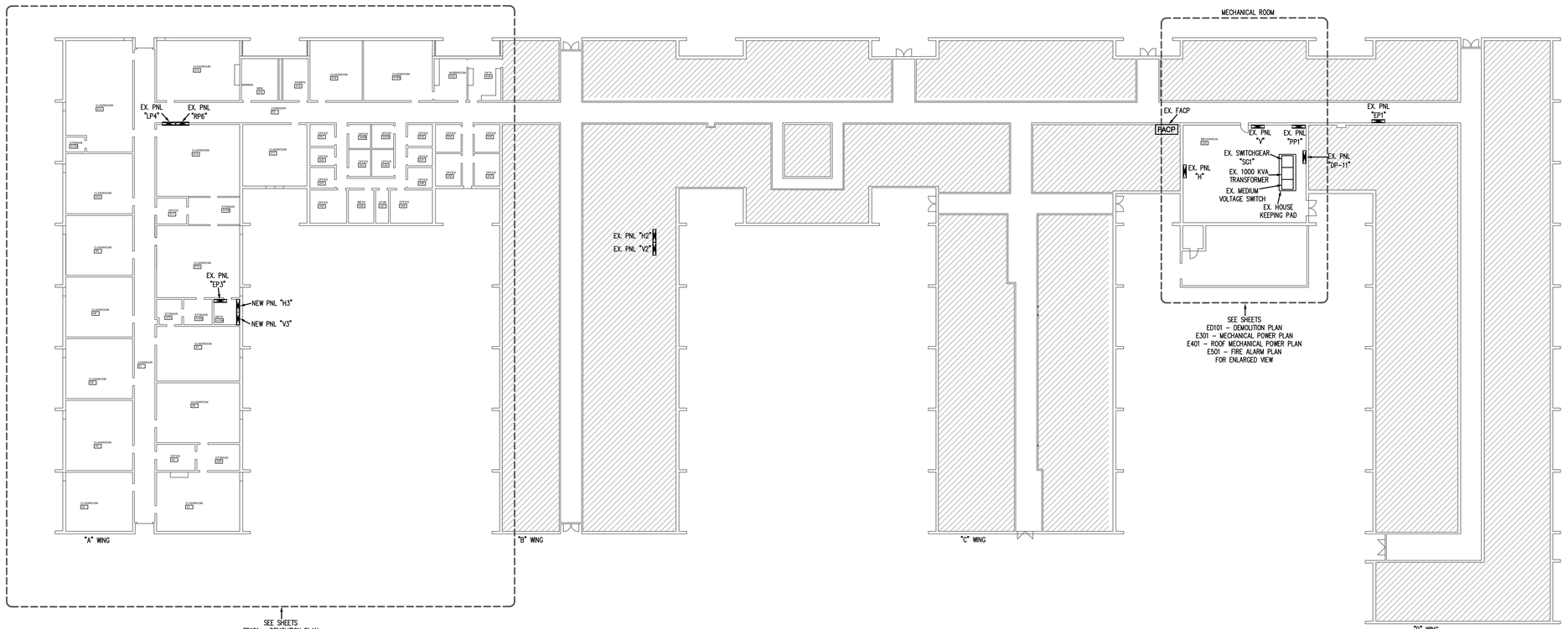
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DATE:	5/01/26
PROJECT NO:	26010
DRAWN BY:	NT
CHECKED BY:	HPB

ELECTRICAL DETAILS

E004

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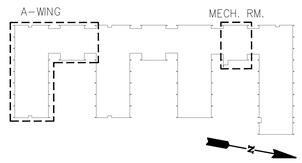
OVERALL PLAN

SCALE: 1"=20'-0"

Scale: 1" = 20'-0"
0 5' 10' 20' 40'

GENERAL OVERALL PLAN NOTES:

1. COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES ON THE SITE PRIOR TO INSTALLATION.
2. ALL WORK SHALL COMPLY WITH THE CURRENTLY ADOPTED CODES, ORDINANCES, AND AMENDMENTS.
3. HATCHED AREAS DENOTES EXISTING AREA WHERE NO WORK IS TO BE DONE.



KEY PLAN

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 9801 REGISTERED PROFESSIONAL ENGINEER (SEAL) STATE OF SOUTH CAROLINA

05-01-2026

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ALTERATIONS & ADDITIONS

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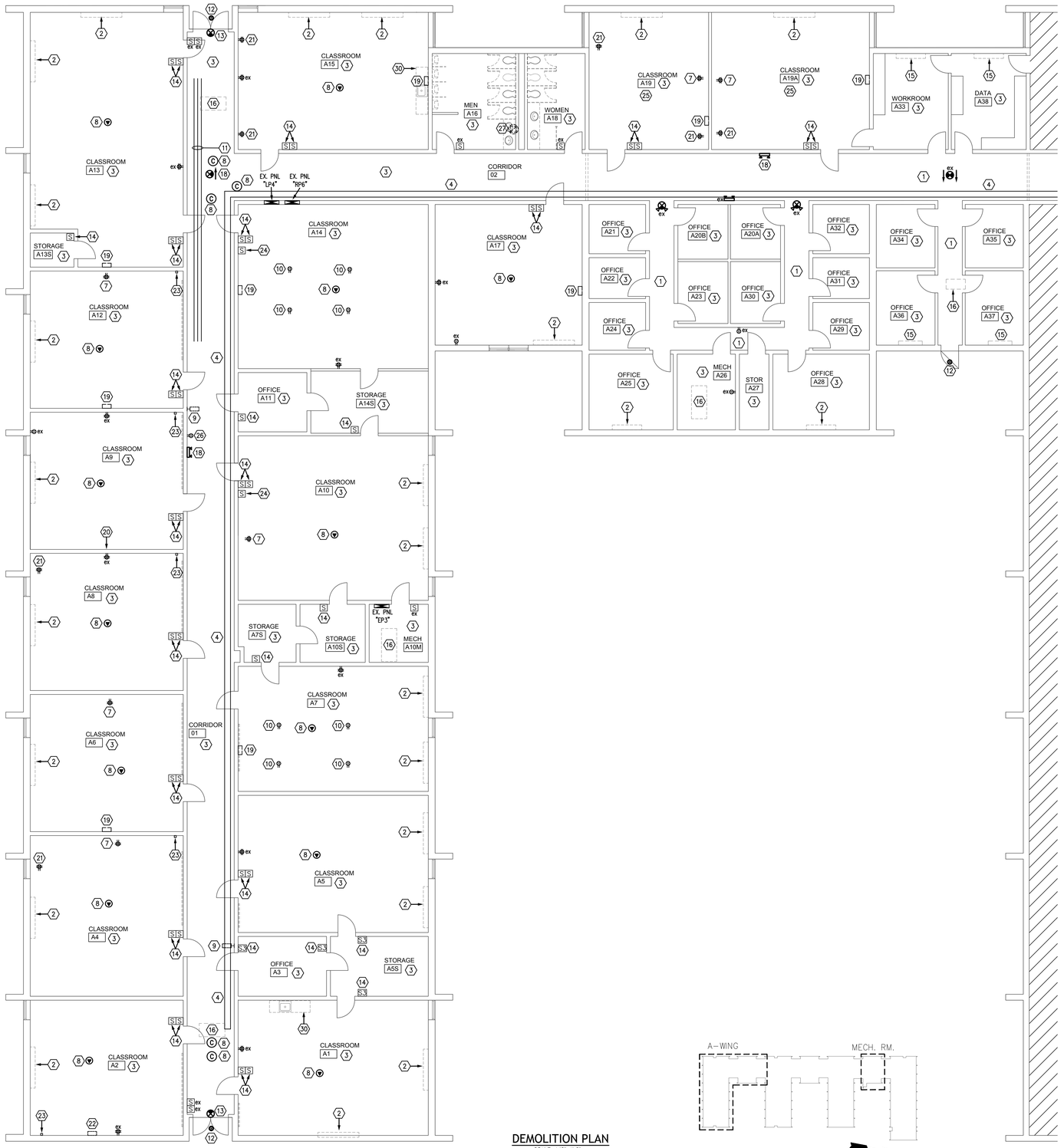
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OVERALL PLAN

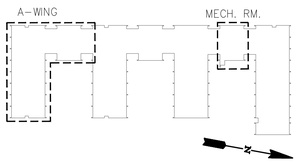
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DEMOLITION PLAN
SCALE: 1/8"=1'-0"



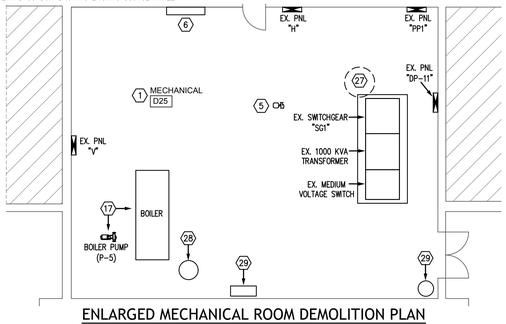
KEY PLAN

GENERAL DEMOLITION PLAN NOTES:

1. COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL, GENERAL CONTRACTOR AND ALL OTHER TRADES ON SITE PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
2. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO "MAKE SAFE" ALL ELECTRICAL COMPONENTS ASSOCIATED WITH PROJECT BEFORE DEMOLITION BEGINS.
3. ELECTRICAL CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS AND DEMOLITION RESPONSIBILITIES ARE NOT NECESSARILY LIMITED TO THOSE LISTED BELOW. WORK INCLUDES REMOVAL AND LEGAL DISPOSAL OF ALL EXISTING CONSTRUCTION ITEMS THAT ARE NOT UTILIZED IN THE FINISHED CONSTRUCTION PROJECT. REMOVE ALL ITEMS SPECIFICALLY INDICATED IN THE DRAWINGS AND ITEMS WHICH ARE NECESSARY TO BE REMOVED IN ORDER TO FACILITATE THE NEW CONSTRUCTION WORK. PERFORM DEMOLITION IN A NEAT AND ORDERLY MANNER TO MINIMIZE DISRUPTIONS. SALVAGEABLE ITEMS TO BE TURNED OVER TO THE OWNER.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT EXISTING SURFACES AND FINISHES TO REMAIN IN THE AREAS RENOVATED AND ALONG THE ROUTES OF WASTE REMOVAL. DAMAGE TO SUCH SURFACES SHALL BE REPAIRED TO AN EXISTING CONDITION STATUS BY THE GENERAL CONTRACTOR.
5. AFTER REMOVAL OF MATERIALS, PERIMETER WALLS SHALL BE SMOOTH AND FLUSH. ANY PROTRUSIONS OR DEPRESSIONS NEED TO BE REMOVED OR FILLED. IF THIS IS IMPOSSIBLE, NOTIFY THE ARCHITECT IMMEDIATELY.
6. ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR ALL TRADES. ALL EXISTING EQUIPMENT SHALL REMAIN ON EXISTING SURFACE UNLESS SPECIFICALLY NOTED OTHERWISE.
7. ALL EXISTING CONDUITS STUBBED THROUGH FLOOR SERVING ITEMS TO BE REMOVED (SHOWN OR NOT SHOWN) AND NOT REQUIRED TO BE REUSED SHALL BE CUT OFF FLUSH WITH THE SLAB DECK AND SEALED.
8. ALL ELECTRICAL FIXTURES, DEVICES AND EQUIPMENT SHALL BE TURNED OVER TO THE OWNER. IF OWNER DOES NOT WISH TO KEEP ITEMS, THEY BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND MUST BE REMOVED FROM THE SITE.
9. THE ELECTRICAL CONTRACTOR SHALL SURVEY THE ELECTRICAL SYSTEMS IN THE AREA TO BE DEMOLISHED PRIOR TO START OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL ACCOMPLISH THE ELECTRICAL DEMOLITION IN A MANNER THAT SHALL NOT AFFECT THE OPERATION OF THE ELECTRICAL SYSTEMS IN OTHER AREAS OF THE BUILDING THAT ARE OUTSIDE THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.
10. COMPLY WITH OWNER'S STANDARDS AND ALL APPLICABLE LOCAL STANDARDS, CODES AND REGULATIONS.
11. ALL CIRCUITS AND POWER CONDUCTORS TO BE CONSIDERED ENERGIZED UNLESS OTHERWISE TESTED AND FIELD VERIFIED FOR BEING DE-ENERGIZED.
12. "ex" ADJACENT TO DEVICE DENOTES EXISTING DEVICE TO REMAIN.
13. PANELS ARE EXISTING TO REMAIN.
14. EXISTING MC CABLE ABOVE THE CEILING NOT SUPPORTED TO THE EXISTING STRUCTURE WILL NEED TO BE SECURED AS REQUIRED BY THE NEC.
15. ANY EXISTING ROMEX CURRENTLY ABOVE THE CEILING WILL NEED TO BE REMOVED. IF ROMEX IS STILL IN USE, IT WILL BE REPLACED WITH MC CABLE.
16. PROVIDE COVER PLATES ON ALL EXISTING JUNCTION BOXES LOCATED ABOVE THE CEILING THAT CURRENTLY DO NOT HAVE COVER PLATES. FOR PRICING PURPOSES ASSUME (15 COVER PLATES).
17. DO NOT ABANDON BRANCH CIRCUIT WIRING ABOVE CEILINGS OR IN WIREWAYS.
18. BIDDER/CONTRACTOR SHALL VISIT THE SITE, EXAMINE AND VERIFY CONDITIONS UNDER WHICH THE WORK SHALL BE CONSTRUCTED AND ACCOUNT FOR FIELD CONDITIONS AND DIMENSIONAL CONSIDERATIONS IN ALL BIDS SUBMITTED.
19. ELECTRICAL CONTRACTOR TO REMOVE ANY CEILING MOUNTED DEVICES (SHOWN OR NOT SHOWN). ELECTRICAL CONTRACTOR TO STORE DEVICES IN SAFE PLACE TO BE REINSTALLED AFTER AFTER CEILING WORK IS COMPLETE.
20. DELETED.
21. ELECTRICAL CONTRACTOR TO REMOVE PROJECTORS AND ASSOCIATED SPEAKERS DURING THE DEMOLITION OF CEILING AND REINSTALL AFTER NEW CEILING IS INSTALLED.

KEYED DEMOLITION PLAN NOTES:

1. DENOTES AREA WHERE EXISTING LIGHTING AND CONTROLS ARE TO REMAIN.
2. DENOTES EXISTING UNIT VENTILATOR TO BE REMOVED. ELECTRICAL CONTRACTOR TO REMOVE ALL EXISTING WIRING, CONDUIT, AND DISCONNECTING MEANS ASSOCIATED WITH UNIT VENTILATOR. ELECTRICAL CONTRACTOR TO CAP AND COVER ANY EXISTING CONDUIT STUBBED OUT OF FLOOR.
3. DENOTES EXISTING LIGHTING IN ROOM TO BE REMOVED. ELECTRICAL CONTRACTOR TO PREPARE EXISTING LIGHTING CIRCUIT TO BE RECONNECTED TO NEW LIGHTING AS INDICATED ON SHEET E201. SEE SHEET E201 FOR NEW LIGHTING LAYOUT.
4. DENOTES EXISTING CABLE TRAY TO BE LOWERED TO SIT 4" ABOVE NEW CEILING. ELECTRICAL CONTRACTOR TO ENSURE CABLE TRAY IS MOUNTED AND SUPPORTED SUFFICIENTLY PER NFPA 70. COORDINATE WITH SCC IT DEPARTMENT CONCERNING EXISTING DATA CABLE THAT IS TO REMAIN.
5. DENOTES EXISTING "A" WING HOT/CHILLED PUMP TO BE REMOVED. ELECTRICAL CONTRACTOR TO REMOVE ANY CONDUIT, WIRE, ETC. ASSOCIATED WITH PUMP. COORDINATE WITH MECHANICAL CONTRACTOR.
6. DENOTES LOCATION OF EXISTING PUMP CONTROLLERS.
7. DENOTES EXISTING CEILING MOUNTED QUAD RECEPTACLE TO BE REMOVED DURING DEMOLITION OF CEILING. ELECTRICAL CONTRACTOR TO RELOCATE AND INSTALL ON THE WALL AT THE PROJECTOR. COORDINATE EXACT LOCATION WITH COLLEGE IT DEPARTMENT. SEE SHEET E101 FOR PROPOSED LOCATION.
8. DENOTES EXISTING CEILING MOUNTED WIRELESS ACCESS POINT/CAMERA TO BE REMOVED AND STORED DURING DEMOLITION. WIRELESS ACCESS POINT/CAMERA TO BE REINSTALLED IN NEW CONSTRUCTION PHASE. COORDINATE MOUNTING WITH COLLEGE IT DEPARTMENT. SEE SHEET E101 FOR PROPOSED NEW LOCATION.
9. DENOTES EXISTING CLOCK TO BE REMOVED AND STORED DURING DEMOLITION. EXISTING CLOCK TO BE REINSTALLED AT EXISTING LOCATION. SEE SHEET E101 FOR LOCATION OF CLOCK. COORDINATE WITH COLLEGE IT DEPARTMENT.
10. DENOTES EXISTING CEILING MOUNTED CORD REELS AND RECEPTACLES TO BE REMOVED. REMOVE ALL WIRING AND CONDUIT BACK TO NEAREST JUNCTION BOX. TURN CORD REELS OVER TO OWNER.
11. ELECTRICAL CONTRACTOR TO INCLUDE REROUTING (7) EXISTING CONDUITS ((6)3/4"C & (1)2"C) & ASSOCIATED CIRCUITING TO AVOID NEW DUCT WORK FROM NEW RTU. COORDINATE WITH MECHANICAL CONTRACTOR.
12. DENOTES EXISTING EXTERIOR DOWNLIGHT TO BE REMOVED DURING DEMOLITION PHASE. ELECTRICAL CONTRACTOR TO PREPARE EXISTING LIGHTING CIRCUIT TO BE RECONNECTED TO NEW LIGHTING AS INDICATED ON SHEET E201.
13. DENOTES EXISTING CEILING MOUNTED EMERGENCY EXIT SIGN/FIXTURE TO BE REMOVED. ELECTRICAL CONTRACTOR TO PREPARE EXISTING CIRCUIT TO BE WIRED TO NEW EXIT SIGN/EMERGENCY FIXTURE.
14. DENOTES EXISTING LIGHT SWITCH TO BE REMOVED. SEE SHEET E201 FOR THE LOCATION OF NEW CONTROLS FOR LIGHTING.
15. DENOTES EXISTING FAN COIL UNIT TO BE REMOVED. ELECTRICAL CONTRACTOR TO REMOVE ALL EXISTING WIRING, CONDUIT, AND DISCONNECTING MEANS ASSOCIATED WITH FAN COIL UNIT. ELECTRICAL CONTRACTOR TO CAP AND COVER ANY EXISTING CONDUIT STUBBED OUT OF FLOOR.
16. DENOTES EXISTING AIR HANDLER UNIT/FAN COIL UNIT TO BE REMOVED. ELECTRICAL CONTRACTOR TO REMOVE ALL EXISTING WIRING, CONDUIT, AND DISCONNECTING MEANS ASSOCIATED WITH AIR HANDLER UNIT/FAN COIL UNIT.
17. DENOTES EXISTING BOILER AND BOILER PUMP TO BE REMOVED. ELECTRICAL CONTRACTOR TO REMOVE ALL EXISTING WIRING, CONDUIT, AND DISCONNECTING MEANS ASSOCIATED WITH BOILER AND BOILER PUMP. ELECTRICAL CONTRACTOR TO CAP AND COVER ANY EXISTING CONDUIT STUBBED OUT OF FLOOR.
18. DENOTES EXISTING EMERGENCY FIXTURE TO BE REMOVED. ELECTRICAL CONTRACTOR TO REMOVE ALL WIRING AND CONDUIT BACK TO JUNCTION BOX.
19. DENOTES EXISTING CLOCK TO BE REMOVED. ELECTRICAL CONTRACTOR TO INSTALL A COVER PLATE OVER CLOCK BOX. COORDINATE WITH COLLEGE IT DEPARTMENT AND ARCHITECT FOR COVER PLATE.
20. DENOTES AREA WHERE EXISTING CLOCK IS ALREADY REMOVED. ELECTRICAL CONTRACTOR TO INSTALL A COVER PLATE OVER CLOCK BOX. COORDINATE WITH COLLEGE IT DEPARTMENT/ARCHITECT.
21. DENOTES APPROXIMATE LOCATION OF EXISTING CEILING MOUNTED QUAD RECEPTACLE FOR TV TO BE REMOVED. REMOVE ALL WIRING AND CONDUIT BACK TO NEAREST JUNCTION BOX.
22. DENOTES APPROXIMATE LOCATION OF ADDRESS SYSTEM SPEAKER TO BE REMOVED. REMOVE ALL WIRING AND CONDUIT ASSOCIATED WITH SPEAKER. COORDINATE WITH COLLEGE IT DEPARTMENT/ARCHITECT FOR COVER PLATE.
23. DENOTES APPROXIMATE LOCATION OF ADDRESS SYSTEM WALL PUSH BUTTON TO BE REMOVED. REMOVE ALL WIRING AND CONDUIT ASSOCIATED WITH PUSH BUTTON. COORDINATE WITH COLLEGE IT DEPARTMENT.
24. DENOTES KEYED SWITCH TO BE REMOVED. REMOVE ANY WIRING AND CONDUIT ASSOCIATED WITH UNIT. ELECTRICAL CONTRACTOR TO BLANK OFF SWITCHES WITH COVER. COORDINATE WITH COLLEGE IT DEPARTMENT/ARCHITECT.
25. ELECTRICAL CONTRACTOR TO REMOVE CAN LIGHTS AND ASSOCIATED SWITCHES IN ROOM. ELECTRICAL CONTRACTOR TO BLANK OFF SWITCHES WITH COVER.
26. DENOTES APPROXIMATE LOCATION OF RECEPTACLE AND BRACKET FOR "OLD STYLE" CLOCK. ELECTRICAL CONTRACTOR TO REMOVE OUTLET AND BRACKET. REMOVE ALL WIRING AND CONDUIT BACK TO NEAREST JUNCTION BOX. HOLE TO BE PATCHED WITH SIMILAR CAULK/GROUT AS THERE NOW ON FINISHES. COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT.
27. DENOTES APPROXIMATE LOCATION OF ROOF MOUNTED EXHAUST FAN TO BE REMOVED. ELECTRICAL CONTRACTOR TO PREPARE EXISTING FEEDERS TO CONNECT TO NEW EXHAUST FAN. SEE SHEET E401 FOR ADDITIONAL INFORMATION.
28. DENOTES EXISTING WATER HEATER TO BE REMOVED. ELECTRICAL CONTRACTOR TO REMOVE ALL EXISTING WIRING, CONDUIT, AND DISCONNECTING MEANS ASSOCIATED WITH WATER HEATER. ELECTRICAL CONTRACTOR TO CAP AND COVER ANY EXISTING CONDUIT STUBBED OUT OF FLOOR.
29. DENOTES EXISTING AIR COMPRESSOR AND ASSOCIATED DRYERS TO BE REMOVED. ELECTRICAL CONTRACTOR TO REMOVE ALL EXISTING WIRING, CONDUIT, AND DISCONNECTING MEANS ASSOCIATED WITH AIR COMPRESSOR AND DRYERS. ELECTRICAL CONTRACTOR TO CAP AND COVER ANY EXISTING CONDUIT STUBBED OUT OF FLOOR.
30. DENOTES WALL/CASEWORK TO BE DEMOLISHED. ELECTRICAL CONTRACTOR TO REMOVE ALL DEVICE BOXES, WIRE, CONDUIT, AND FACE PLATES WHERE LOCATED IN WALL/CASEWORK TO BE DEMOLISHED. REMOVE WIRE AND CONDUIT BACK TO EXISTING SOURCE PANEL.



ENLARGED MECHANICAL ROOM DEMOLITION PLAN
SCALE: 1/8"=1'-0"

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 9801 JOHN P. BLUNK
05-01-2026

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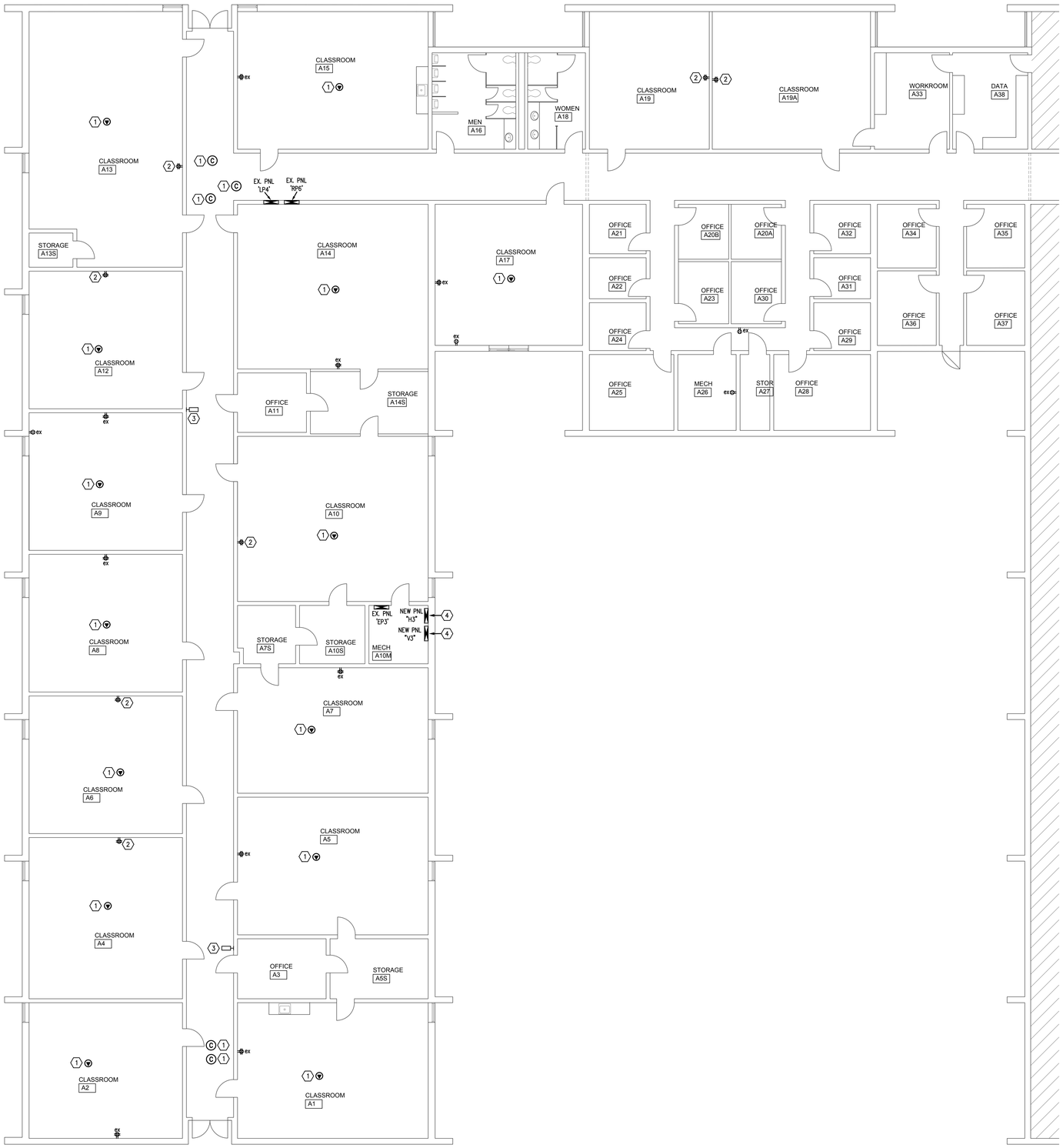
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MARK	DATE	DESCRIPTION
1	5/28/26	OSE Comments

ISSUE:	CD
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DEMOLITION PLAN

ED101



POWER PLAN
SCALE: 1/8"=1'-0"

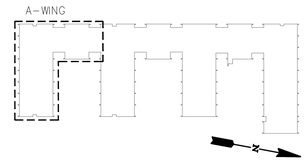
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GENERAL POWER PLAN NOTES:

1. COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES ON THE SITE PRIOR TO INSTALLATION.
2. ALL WORK SHALL COMPLY WITH THE CURRENTLY ADOPTED CODES, ORDINANCES, AND AMENDMENTS.
3. COORDINATE FINAL LOCATION OF ALL ELECTRICAL OUTLETS WITH OWNER PRIOR TO INSTALLING.
4. ELECTRICAL CONTRACTOR TO VERIFY FINAL LOCATION OF DEVICE BOXES WITH OWNER/EQUIPMENT PRIOR TO INSTALLING.
5. ELECTRICAL CONTRACTOR TO APPLY UL LISTED FIRE STOP TO ALL PENETRATIONS THROUGH FIRE RATED WALLS EQUAL TO OR EXCEEDING RATING OF EXISTING WALL. SEE FIRE STOP DETAILS ON SHEET E004.
6. APPLY LABEL ADJACENT TO ALL FIRE PENETRATIONS INDICATING THE UL APPROVED FIRE CAULKING SYSTEM UTILIZED AT THE PENETRATION.
7. "ex" ADJACENT TO DEVICE DENOTES EXISTING DEVICE TO REMAIN.
8. ALL CONDUIT TO BE ROUTED ABOVE CEILING.

KEYED POWER PLAN NOTES:

1. DENOTES EXISTING WIRELESS ACCESS POINT/CAMERA TO BE REINSTALLED AFTER NEW CEILING IS INSTALLED. COORDINATE MOUNTING WITH COLLEGE IT DEPARTMENT.
2. DENOTES EXISTING CEILING MOUNTED QUAD RECEPTACLE TO BE RELOCATED AND INSTALLED ON THE WALL AT THE PROJECTOR. COORDINATE EXACT LOCATION WITH COLLEGE IT DEPARTMENT PRIOR TO REINSTALLING.
3. DENOTES EXISTING CLOCK TO BE REINSTALLED AFTER DEMOLITION WORK IS COMPLETE. COORDINATE WITH COLLEGE IT DEPARTMENT.
4. DENOTES NEW ELECTRICAL PANEL PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE RISER DIAGRAM ON SHEET E003 FOR ADDITIONAL INFORMATION.



KEY PLAN

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REGISTERED PROFESSIONAL ENGINEER No. 9801 ENGINEERING BY BLUNK
05-01-2026

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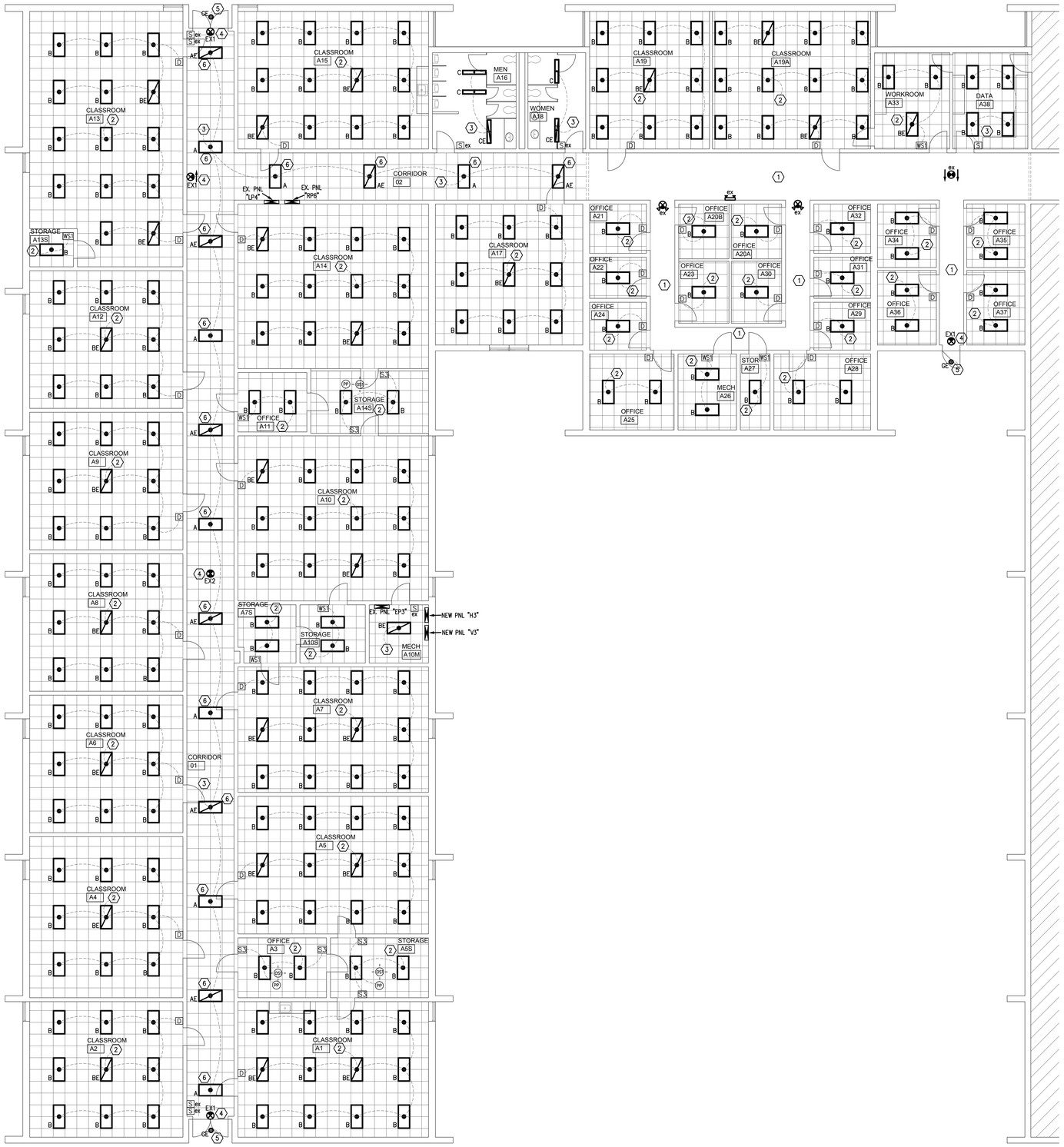
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POWER PLAN

E101

7 6 5 4 3 2 1
F E D C B A



LIGHTING PLAN
SCALE: 1/8"=1'-0"

Scale: 1/8" = 1'-0"
0 2 4 8 16

GENERAL LIGHTING PLAN NOTES:

1. ALL LIGHT FIXTURES SHALL MEET THE SEISMIC REQUIREMENTS OF ASCE 7.
2. ALL LAY-IN LIGHT FIXTURES (RECESSED IN CEILING) SHALL HAVE 12 GAUGE WIRE HANGERS PLACED ON TWO DIAGONAL CORNERS ATTACHED TO THE BUILDING STRUCTURE OR HURRICANE CLIPS FOR SEISMIC RESTRAINT.
3. ELECTRICAL CONTRACTOR SHALL WIRE ALL EMERGENCY EGRESS FIXTURES AND EXIT SIGNS UN-SWITCHED TO LIGHTING CIRCUIT IN ROOM WHERE EGRESS FIXTURE IS LOCATED.
4. PROVIDE ALL REQUIRED INSTALLATION ACCESSORIES FOR THE FIXTURES AS REQUIRED FOR THE SPECIFIED LOCATION. SUCH ACCESSORIES SHALL INCLUDE, IN GENERAL, RINGS AND FLANGES, CANOPIES, STEM HANGERS, SUSPENSION, STRAPS, AND PLASTER FRAMES.
5. COORDINATE LOCATION OF SWITCHES WITH OWNER/ARCHITECT PRIOR TO INSTALLING.
6. COORDINATE WITH OWNER/ARCHITECT FOR FINISH COLOR OF SWITCHES AND COVER PLATES PRIOR TO INSTALLING.
7. COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ALL MECHANICAL DUCT WORK AND ACCESSORIES. ELECTRICAL CONTRACTOR TO ENSURE NO CONFLICTS PRIOR TO INSTALLATION OF LIGHT FIXTURES. COORDINATE WITH MECHANICAL CONTRACTOR AND OWNER PRIOR TO INSTALLING.
8. PROVIDE UNSWITCHED "HOT" WIRE TO ALL EXIT/EMERGENCY FIXTURES FOR BATTERY CHARGING.
9. LIGHT FIXTURES DENOTED WITH THE SUFFIX "E" AND A DIAGONAL LINE DENOTES FIXTURE WITH EMERGENCY BATTERY BACK-UP BALLAST REQUIRING IN-SWITCHED "HOT" WIRE FOR BATTERY CHARGING.
10. "ex" ADJACENT TO FIXTURE DENOTES EXISTING FIXTURE TO REMAIN.
11. ELECTRICAL CONTRACTOR TO PROVIDE ALL LOW VOLTAGE WIRING TO MAKE A COMPLETE WORKING DIMMING SYSTEM.
12. MOUNT POWER PACKS ABOVE CEILING IN ACCESSIBLE LOCATION.
13. IN ROOMS THAT HAVE BOTH OCCUPANCY SENSORS AND SWITCH/SWITCHES, WIRE OCCUPANCY SENSORS AHEAD OF AND IN SERIES WITH SWITCH/SWITCHES.
14. ALL LOW VOLTAGE WIRING FOR OCCUPANCY SENSOR APPLICATIONS SHALL BE RUN IN METAL CONDUIT, EXCEPT AS NOTED BELOW. LOW VOLTAGE WIRING FOR OCCUPANCY SENSORS MAY BE RUN WITHOUT CONDUIT ABOVE ACCESSIBLE GRID CEILINGS PROVIDED THE WIRING IS PLENUM RATED AND IS INSTALLED AND SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 725.24 AND 300.4(D).

KEYED LIGHTING PLAN NOTES:

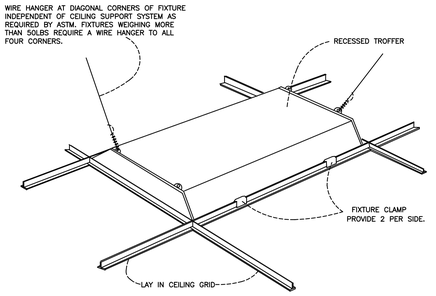
1. DENOTES AREA WHERE EXISTING LIGHTING AND CONTROLS ARE TO REMAIN.
2. DENOTES NEW LIGHTING TO BE WIRED TO EXISTING LIGHTING CIRCUIT IN ROOM. FIXTURES TO BE CONTROLLED BY NEW CONTROLS AS INDICATED.
3. DENOTES NEW LIGHTING TO BE WIRED TO EXISTING LIGHTING CIRCUIT IN ROOM/AREA. EXISTING LIGHTING CONTROLS ARE TO REMAIN.
4. DENOTES NEW EMERGENCY FIXTURE TO BE WIRED UNSWITCHED AND "HOT" TO EXISTING AREA LIGHTING CIRCUIT.
5. DENOTES NEW RECESSED DOWNLIGHT TO BE WIRED TO EXISTING CIRCUIT CURRENTLY FEEDING EXISTING DOWNLIGHT. UTILIZE EXISTING CONTROLS.
6. DENOTES NEW LIGHTING TO BE WIRED TO EXISTING AREA LIGHTING CIRCUIT. NEW LIGHTING TO BE PROVIDED WITH 1-HR FIRE RATED ENCLOSURE. ELECTRICAL CONTRACTOR TO PROVIDE TENMAT CATALOG #FF130-2'X4' OR APPROVED EQUAL.

SWITCH LEGEND

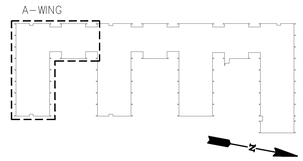
- S — LOCAL TOGGLE SWITCH S.P.S.T, 20A, SPEC GRADE
- S3 — LOCAL TOGGLE SWITCH, 3-WAY 20 AMP, SPEC GRADE.
- WS1 — WALL MOUNTED OCCUPANCY SENSOR HUBBELL CONTROL SOLUTIONS CATALOG #LHMTS1-COLOR
- D — 0-10V DIMMER SWITCH LEVITON CATALOG #IP710-LFZ (OR EQUAL)
- OS1 — CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR HUBBELL CONTROL SOLUTIONS CATALOG #OMNI-DT-2000
- PP — POWER PACK HUBBELL CONTROL SOLUTIONS CATALOG #UVPP

OCCUPANCY SENSOR NOTES

1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNTED SENSORS REQUIRE THAT THEY BE NO CLOSER THAN 6 FEET TO AIR SUPPLY/RETURN REGISTERS.
3. ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT CONTROLLED.



TYPICAL RECESSED FIXTURE MOUNTING DETAIL
NO SCALE



KEY PLAN

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

REGISTERED PROFESSIONAL ENGINEER No. 9801 — IT IS UNLAWFUL TO ALTER THIS DOCUMENT — 05-01-2026

CONSULTANT

MATRIX ENGINEERING, INC.
912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2026-007

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

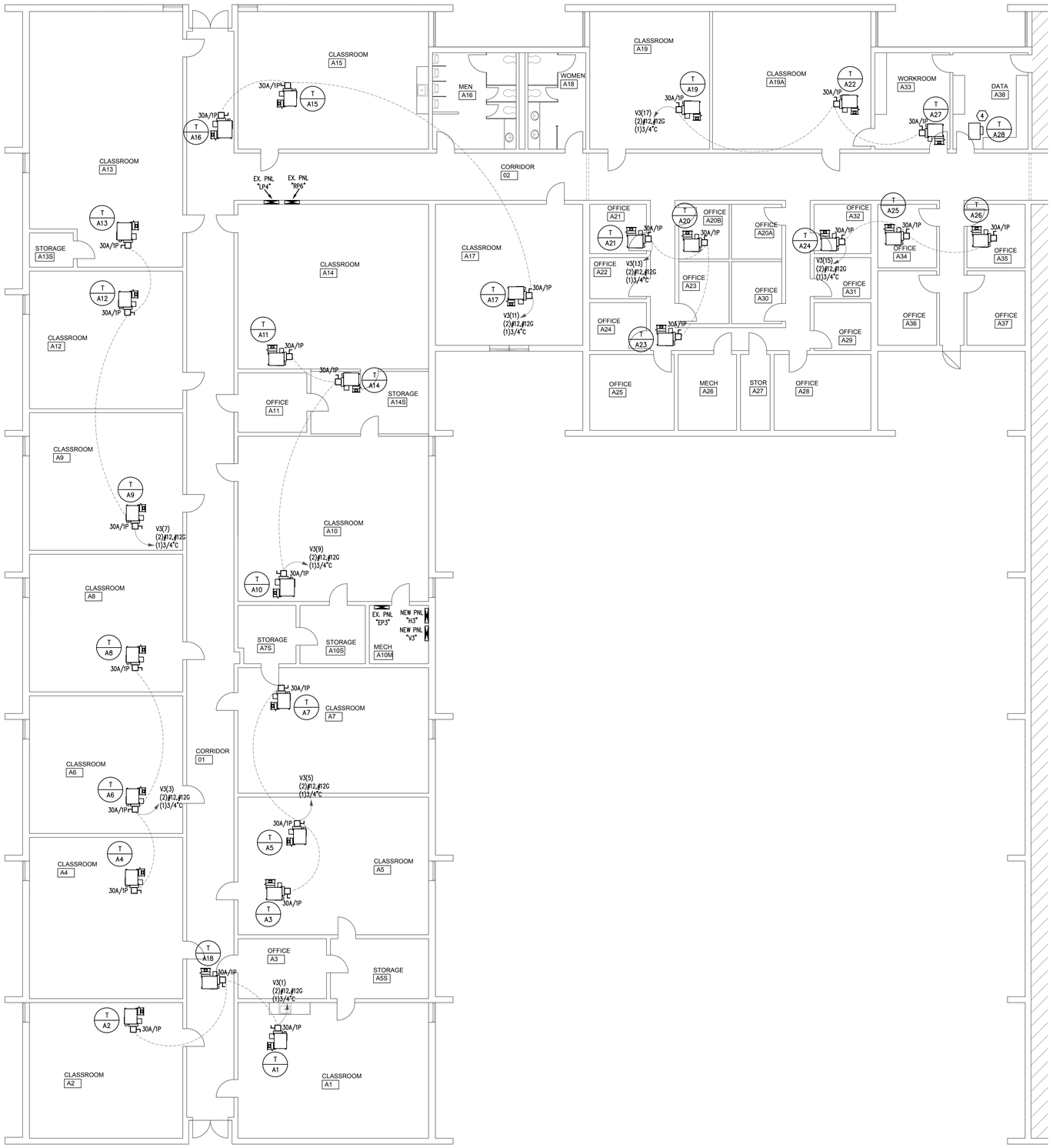
MARK	DATE	DESCRIPTION

ISSUE:	CD
DATE:	5/01/26
PROJECT NO:	26010
DRAWN BY:	NT
CHECKED BY:	HPB

LIGHTING PLAN

E201

7 6 5 4 3 2 1
F E D C B A



MECHANICAL POWER PLAN
SCALE: 1/8"=1'-0"

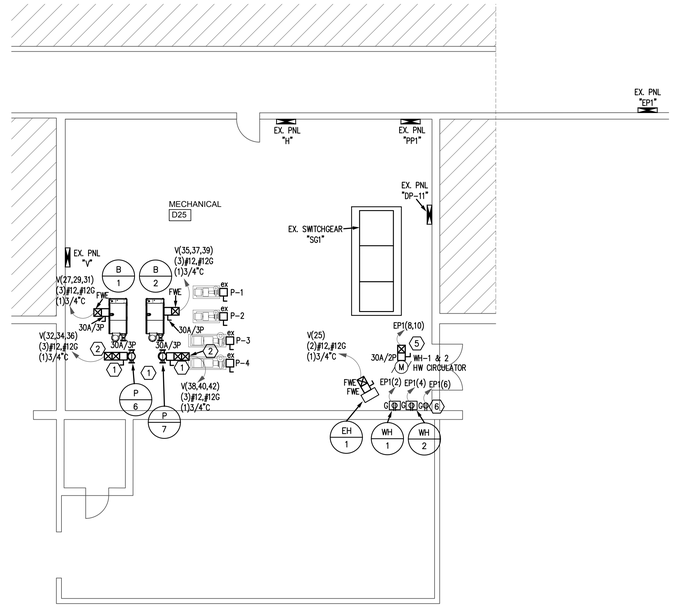
Scale: 1/8" = 1'-0"
0 2' 4' 8' 16'

GENERAL MECHANICAL POWER PLAN NOTES:

1. "FWE" ADJACENT TO DEVICE DENOTES DEVICE TO BE FURNISHED WITH EQUIPMENT.
2. VERIFY ALL ELECTRICAL REQUIREMENTS WITH NAMEPLATE DATA PRIOR TO PURCHASING AND INSTALLING WIRING, CONDUIT, CIRCUIT BREAKER AND DISCONNECT SWITCH.
3. DISCONNECT SWITCHES TO BE HEAVY-DUTY.
4. ALL CIRCUITS WIRED WITH (2)#12,#12G IN (1)3/4" CONDUIT UNLESS OTHERWISE NOTED.
5. "ex" ADJACENT TO DEVICE DENOTES EXISTING DEVICE TO REMAIN.
6. FLEX TO ALL MOTORS AND MECHANICAL EQUIPMENT PRONE TO VIBRATION WITH SEALTITE FLEXIBLE CONDUIT.
7. COORDINATE REMOTE SHUT DOWN OF BOILERS WITH MECHANICAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR TO PROVIDE ALL POST, KINDORF, AND ACCESSORIES TO MOUNT DISCONNECTS, MOTOR STARTERS, AND VARIABLE FREQUENCY DRIVES.

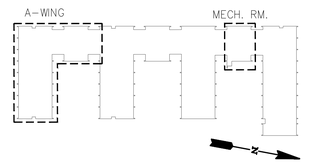
KEYED MECHANICAL POWER PLAN NOTES:

1. MOTOR STARTER PROVIDED BY MECHANICAL CONTRACTOR, MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR.
2. WIRE THROUGH VARIABLE FREQUENCY DRIVE. VFD PROVIDED BY MECHANICAL CONTRACTOR, MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL REGARDING MOUNTING AND CODE COMPLIANT WORK SPACE.
3. ELECTRICAL CONTRACTOR TO VERIFY CONTROL OF CIRCULATOR PUMP WITH PLUMBING CONTRACTOR. POWER WIRING BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONTROL WIRING BY MECHANICAL CONTROLS CONTRACTOR.
4. VAV TERMINAL REQUIRES LOW VOLTAGE TO BE PROVIDED BY HVAC CONTROLS CONTRACTOR. EQUIPMENT SHOWN FOR REFERENCE ONLY.
5. MOTOR STARTER FOR CIRCULATION PUMP PROVIDED BY MECHANICAL, MOUNTED AND WIRED BY ELECTRICAL. CONTROL CIRCUIT PROVIDED BY OTHERS FROM BUILDING MANAGEMENT SYSTEM. COORDINATE WITH MECHANICAL.
6. DENOTES RECEPTACLE FOR FUTURE WATER HEATER WH-3.



ENLARGED MECH. ROOM MECHANICAL POWER PLAN
SCALE: 1/8"=1'-0"

Scale: 1/8" = 1'-0"
0 2' 4' 8' 16'



KEY PLAN

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

REGISTERED PROFESSIONAL ENGINEER No. 9801 SOUTH CAROLINA
05-01-2026

CONSULTANT

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912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2026-007

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION

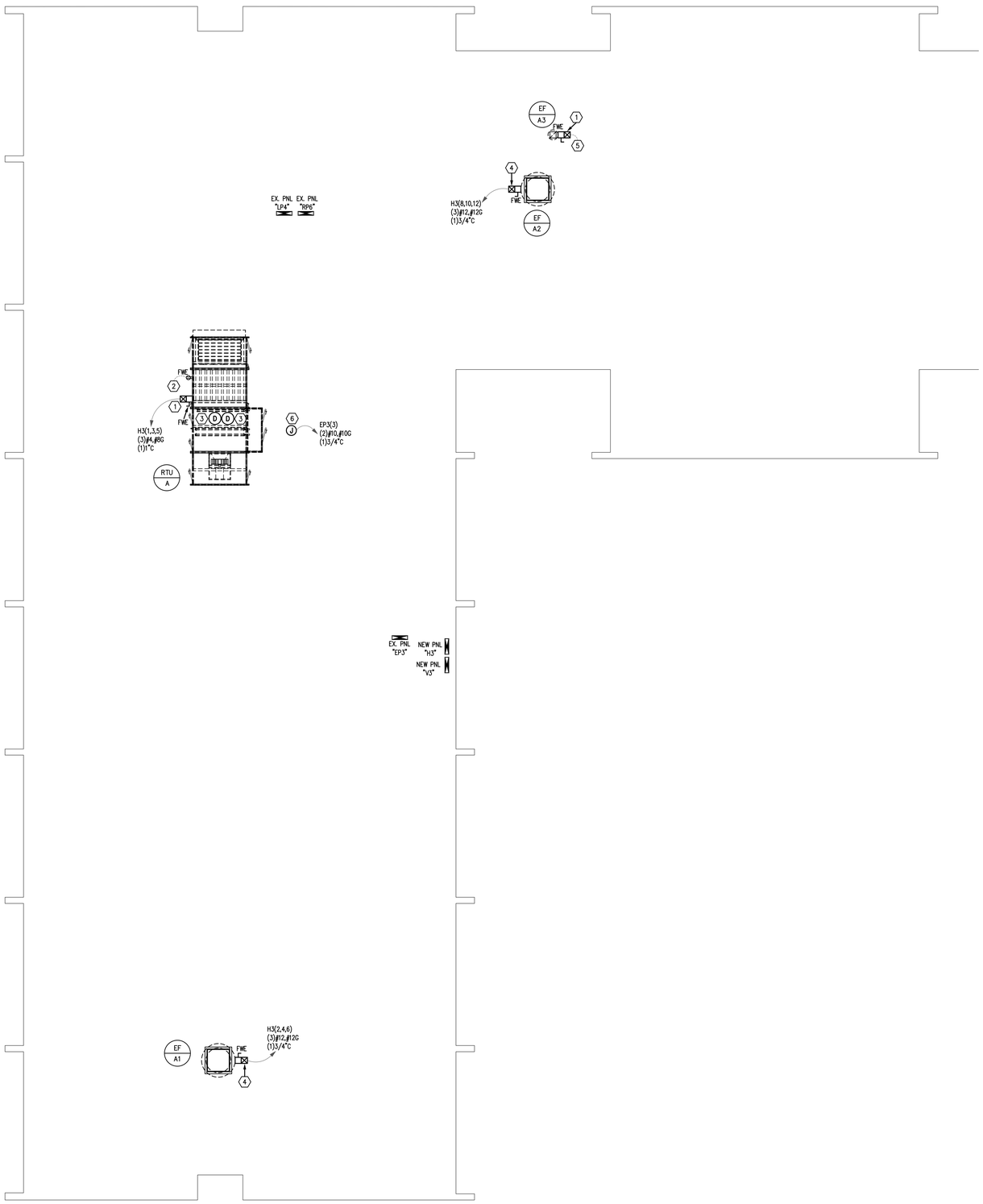
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DATE:	5/01/26
PROJECT NO:	26010
DRAWN BY:	NT
CHECKED BY:	HPB

MECHANICAL POWER PLAN

E301

7 6 5 4 3 2 1

F E D C B A



ROOF MECHANICAL POWER PLAN - "A" WING

SCALE: 1/8"=1'-0"

Scale: 1/8" = 1'-0"

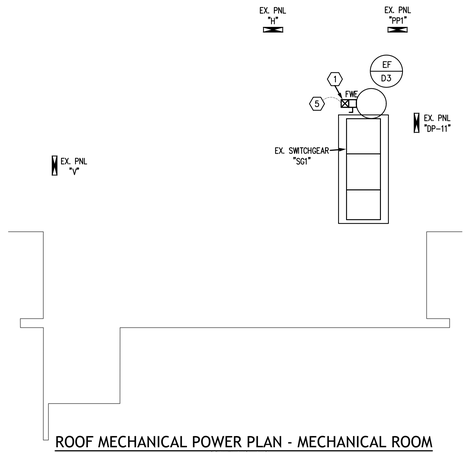
0 2' 4' 8' 16'

GENERAL ROOF MECHANICAL POWER PLAN NOTES:

1. "FME" ADJACENT TO DEVICE DENOTES DEVICE TO BE FURNISHED WITH EQUIPMENT.
2. VERIFY ALL ELECTRICAL REQUIREMENTS WITH NAMEPLATE DATA PRIOR TO PURCHASING AND INSTALLING WIRING, CONDUIT, CIRCUIT BREAKER, AND DISCONNECT SWITCH.
3. DISCONNECT SWITCHES TO BE HEAVY-DUTY.
4. ALL CIRCUITS WIRED WITH (2)#12,#12G IN (1)3/4" CONDUIT UNLESS OTHERWISE NOTED.

KEYED ROOF MECHANICAL POWER PLAN NOTES:

1. MOTOR STARTER PROVIDED BY MECHANICAL CONTRACTOR, MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR.
2. NON-POWERED MAINTENANCE RECEPTACLE PROVIDED WITH ROOFTOP UNIT "RTU-A". ELECTRICAL CONTRACTOR TO WIRE TO THE NEAREST AVAILABLE CONVENIENCE RECEPTACLE CIRCUIT.
3. DENOTES DUCT DETECTOR WITH REMOTE TEST SWITCH INDICATOR STATION MOUNTED IN RETURN DUCT. PROVIDED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. UNIT SHUT DOWN BY MECHANICAL CONTROLS CONTRACTOR. COORDINATE UNIT SHUT DOWN WITH MECHANICAL CONTROLS CONTRACTOR.
4. WIRE THROUGH VARIABLE FREQUENCY DRIVE. VFD PROVIDED BY MECHANICAL CONTRACTOR, MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL REGARDING MOUNTING AND CODE COMPLIANT WORK SPACE.
5. EXHAUST FAN REPLACES EXISTING FAN. REUSE EXISTING CONDUIT, WIRING, AND CIRCUIT. COORDINATE WITH MECHANICAL FOR CONTROL OF FAN.
6. DENOTES APPROXIMATE LOCATION OF JUNCTION BOX FOR INSTALLATION OF HEAT TRACE THERMWIRE WRAP FOR FREEZE PROTECTION OF CHILLED WATER PIPES ON ROOF. COORDINATE EXACT LOCATION FOR JUNCTION BOX WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLING

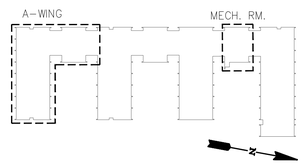


ROOF MECHANICAL POWER PLAN - MECHANICAL ROOM

SCALE: 1/8"=1'-0"

Scale: 1/8" = 1'-0"

0 2' 4' 8' 16'



KEY PLAN

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 JEFFREY M. BLUNK

05-01-2026

CONSULTANT

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Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2026-007

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION

ISSUE:	CD
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DRAWN BY:	NT
CHECKED BY:	HPB

ROOF MECHANICAL POWER PLAN

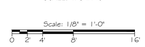
E401

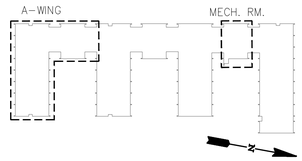
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7 6 5 4 3 2 1



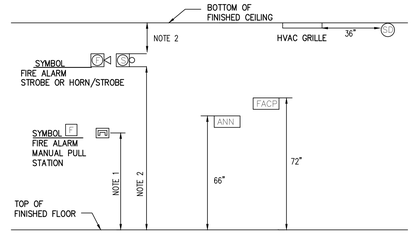
FIRE ALARM PLAN
SCALE: 1/8"=1'-0"





KEY PLAN

FIRE ALARM LEGEND	
SD	SMOKE DETECTOR.
F	MANUAL FIRE ALARM PULL STATION.
F	FIRE ALARM SYSTEM HORN/STROBE UNIT.
S	FIRE ALARM SYSTEM STROBE UNIT.
FACP	FIRE ALARM CONTROL PANEL.
ANN	REMOTE ANNUNCIATOR PANEL.
ceil	ADJACENT TO DEVICE DENOTES CEILING MOUNTED DEVICE.



TYPICAL DEVICE MOUNTING HEIGHT
SCALE: NONE

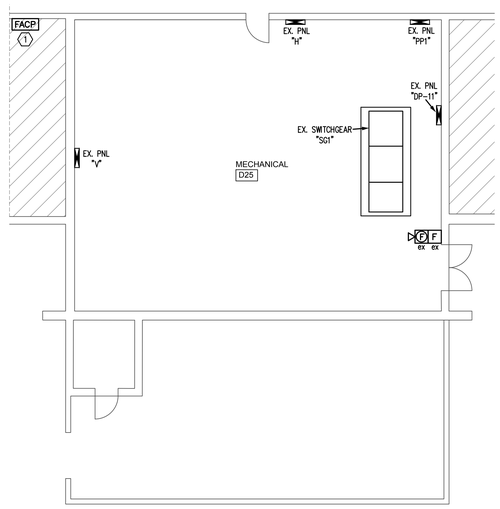
MOUNTING NOTES:
1. MOUNT PULL STATION 48" TO TOP OF BOX.
2. MOUNT STROBE OR HORN/STROBE COMBINATION AT LEAST 80"AFF AND NOT MORE THAN 96"AFF. MOUNT DEVICE AT LEAST 6" DOWN FROM CEILING.
3. MOUNTING HEIGHTS OF ELECTRICAL DEVICES TO MEET NFPA 72 AND ADA CODE REQUIREMENTS.

GENERAL FIRE ALARM PLAN NOTES:

1. THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES.
2. MOUNT SMOKE DETECTOR WITHIN 5 FEET OF FACP AND NAC PANELS.
3. ALL FIRE ALARM SYSTEM WIRING SHALL BE ROUTED IN TYPE EMT CONDUIT. CONDUIT SHALL BE PAINTED WITH A RED STRIPE AT 10 FOOT INTERVALS AND JUNCTION BOX COVERS SHALL BE PAINTED RED.
4. FIRE ALARM CONTRACTOR TO COORDINATE MOUNTING OF DEVICES WITH LIGHT FIXTURES, AUDIO SPEAKERS, MECHANICAL VENTS, AND ALL OTHER CEILING MOUNTED EQUIPMENT SO AS TO NOT BLOCK VIEW OF THE AUDIO VISUALS.
5. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE LABELED AS FIRE WALLS AND SHALL BE CAULKED WITH A UL APPROVED FIRE CAULKING SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE FIRE WALL. A LABEL SHALL BE APPLIED INDICATING THE APPROVED UL TYPE SYSTEM UTILIZED AT EACH PENETRATION.
6. ALL NEW DEVICES SHALL BE UL LISTED AS BEING COMPATIBLE WITH AND APPROVED TO BE WIRED TO EXISTING SIMPLEX FIRE ALARM SYSTEM.
7. "ex" ADJACENT TO DEVICE DENOTES EXISTING DEVICE TO REMAIN.

KEYED FIRE ALARM PLAN NOTES:

1. DENOTES EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.
2. DENOTES NEW FIRE ALARM STROBE TO BE INSTALLED. DEVICE TO BE CONNECTED TO EXISTING SIMPLEX FIRE ALARM SYSTEM.
3. DENOTES EXISTING FIRE ALARM PULL STATION TO BE REPLACED WITH NEW FIRE ALARM PULL STATION.
4. DENOTES SMOKE DETECTOR TO BE INSTALLED ABOVE CEILING IN CENTER OF CORRIDOR PLENUM SPACE. SMOKE DETECTORS SHALL BE INSTALLED AT BOTTOM CORD OF STEEL BAR JOIST. COORDINATE EXACT LOCATION WITH EXISTING BUILDING CONDITIONS AND NEW DUCT WORK. LOCATIONS ARE APPROXIMATE TO IDENTIFY THE QUANTITY REQUIRED. COORDINATE EXACT MOUNTING LOCATIONS WITH EOR PRIOR TO INSTALLING.
5. UNIT REQUIRES DUCT SMOKE DETECTOR WITH REMOTE TEST SWITCH INDICATOR STATION. PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR. MOUNTED BY MECHANICAL CONTRACTOR. FAN SHUTDOWN WIRING BY BY MECHANICAL CONTRACTOR.



ENLARGED MECH. ROOM FIRE ALARM PLAN
SCALE: 1/8"=1'-0"



7 6 5 4 3 2 1

F E D C B A

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HEREBY CERTIFY THAT THE DESIGN SHOWN HEREON IS IN COMPLIANCE WITH THE 2021 IECC AS AMENDED BY SCEEB
05-01-2026

CONSULTANT

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FIRE ALARM PLAN

E501