

Renovations to: Powers Building - A Wing

131 Community College Drive
Spartanburg, S.C

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OSE APPLICABLE CODES AND STANDARDS	
A.	International Building Code (IBC), 2021 Edition with SCBC modifications
B.	International Existing Building Code (IEBC), 2021 Edition
C.	International Fire Code (IFC), 2021 Edition with SCBC modifications
D.	International Energy Conservation Code (IECC), 2009 Edition
E.	International Fuel Gas Code (IFGC), 2021 Edition with SCBC modifications
F.	International Mechanical Code (IMC), 2021 Edition with SCBC modifications
G.	International Plumbing Code (IPC), 2021 Edition with SCBC modifications, and the following insertions: 1. Section 305.4.1, insert "18" and insert "18" 2. Section 903.1, insert "8"
H.	International Private Sewage Disposal Code (IPSDC), 2021 Edition
I.	International Property Maintenance Code (IPMC), 2021 Edition
J.	International Residential Code for One- and Two-Family Dwellings (IRC), 2021 Edition with SCBC modifications, and the following insertions: 1. P2603.5.1, insert "12" and insert "24"
K.	International Wildland - Urban Interface Code (IWUIC), 2021 Edition Note: The IWUIC does not supersede existing statutory requirements.
L.	International Code Council Performance Code (ICCPC), 2021 Edition, upon State Engineer's approval
M.	International Swimming Pool and Spa Code (ISPS), 2021 Edition
N.	Standard for Ramps, 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 Usable 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/ada/standards/buildings-and-streets/about-the-ada-standards/ada-standards .
R.	State Fire Marshal rules, regulations, and policies. See http://statelife.ltr.sc.gov/odm/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.ltr.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.

PROJECT TEAM

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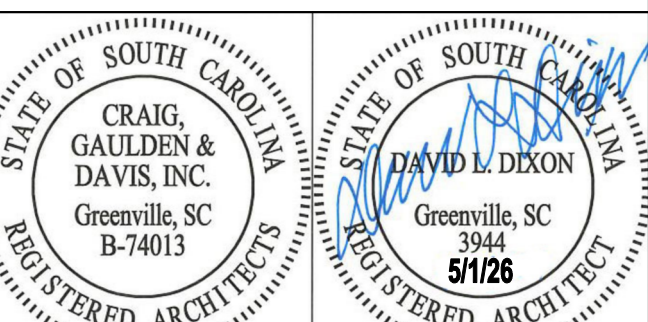
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CONSULTANT

ALTERATIONS & ADDITIONS

POWERS
BUILDING
A-WING

OSE PROJECT NO.
H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
△	5/28/26	OSE COMMENTS

ISSUE:	SCHEMATIC
DATE:	5/17/26
PROJECT NO.:	26010
DRAWN BY:	DLD
CHECKED BY:	DLD

COVER SHEET

CVR

PROJECT ABBREVIATIONS LEGEND

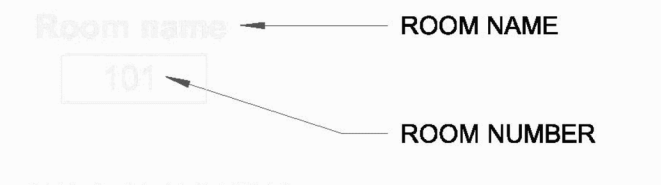
AB ANCHOR BOLT	GA GALV	GALVE GALVANIZED	F RISER
AC, AC AIR CONDITION(ING)ED	GB (GB-) GRAB BAR	GRAB BAR	R RADIUS
ACS ACCESS	GB (GB-) GRAB BAR	GRAB BAR	RB (RB-) RUBBER BASE
ACST ACOUSTICAL CEILING	GFRAC GLASS FIBER REINFORCED CONCRETE	CONCRETE	RCF REFLECTED CEILING PLAN
ACP (ACP-) PANEL	GFRG GLASS FIBER REINFORCED GYPSUM	GYPSUM	RCPTN RECEPTION
ACT (ACT-) AREA DRAIN	GL (GL-) GLASS	GLASS	REC RECESSED
AD ADA	GL (GL-) GLASS	GLASS	REF REFERENCE
ADH AMERICANS WITH DISABILITIES ACT	GL BLK GLU LAM	GLUE LAMINATED WOOD	REFR REFLECTOR
ADJ ADJUSTABLE	GLU LAM GLU LAM	GLUE LAMINATED WOOD	REIN REINFORCE
AFB ABOVE FINISHED FLOOR	GYP PLAS GYP PLAS	GYPSUM PLASTER	REIN CONC REINFORCED CONCRETE
AGGR AGGREGATE	H HIGH	HIGH	REQD REQUIRED
ANCH ANCHOR	HOB HOSE BIBB	HOBSE BIBB	RESIL RESILIENT
ANT APPROXIMATE	HOL HOLLOW CORE	HOLLOW CORE	RESPEC RE-SPECIFICATION
ARCH ARCHITECT(URAL)	HCP HOSI CAPPED	HOSI CAPPED	RFG ROOFING
ASPH ASPHALT	HW HARDWARE	HARDWARE	RF (RF-) RESILIENT FLOORING
AUTO AUTOMATIC	HM HW METAL	HW METAL	RHT RIGHT HAND
AWP (AWP-) ACOUSTICAL WALL PANEL	HO HOLD OPEN	HOLD OPEN	RM ROOM
BB BACK TO BACK	HOZ HORIZONTAL	HORIZONTAL	RO ROUGH OPENING
BB (BB-) BULLETIN BOARD	HP HIGH POINT	HIGH POINT	ROW ROW
BBS BASE BOARD	HR HOUR	HOUR	RTF (RTF-) RUBBER TILE FLOOR
BO BOARD	HT HEIGHT	HEIGHT	RVL REVEAL
BCS BABY CHANGING STATION	HTG HEATING	HEATING	S SOUTH
BE (BE-) BENCH	HTR HEATER	HEATER	SAB SOUND ATTENUATION
BIT, BITUM BITUMINOUS	HVAC HEATING, VENTILATION, AIR CONDITIONING	HEATING, VENTILATION, AIR CONDITIONING	SAN SANITARY
BLDG BUILDING	HW HOT WATER	HOT WATER	SCHED SCHEDULE
BLKG BLOCKING	HYD HYDRANT	HYDRANT	SCHD SOLID CORE WOOD
BM BEAM	INCL INCLUDE(D), INCLUDING INSULATION	INCLUDING INSULATION	SD (SD-) SOAP DISPENSER
BMK BENCHMARK	INSUL INSULATION	INSULATION	SECT SQUARE FOOT(FEET)
BOT BOTTOM	INT INTERIOR	INTERIOR	SF SIGNAGE
BOTM BOTTOM OF	INTM INTERMEDIATE	INTERMEDIATE	SGNG SINGLE
BR (BR-) BRICK	INV INVERT	INVERT	SHT SHEET
BRG BEARING	JAN JANITOR	JANITOR	SIM SIMILAR
BRZ BRONZE	JAN CLO JANITOR'S CLOSET	JANITOR'S CLOSET	SHR SHOWER
BSMT BASEMENT	JT JOINT	JOINT	SND (SND-) SANITARY NAPKIN DISPOSAL UNIT
BUR BUILT-UP ROOFING	KD KNOCK(D) DOWN	KNOCK(D) DOWN	SP STANDPIPE
CAB CABINET	KT KNOCK OUT	KNOCK OUT	SPEC SPECIFICATION
CB CATCH BASIN	KO KITCHEN	KITCHEN	SPKR SPEAKER
CEM CEMENT	KPL (KPL-) KICK PLATE	KICK PLATE	SQ SQUARE
CG (CG-) CORNER GUARD	L LONG LENGTH	LONG LENGTH	SS (SS-) SOLID SURFACE
CH (CH-) CAST IRON	LAM LAMINATE(D)	LAMINATE(D)	SSTL STAINLESS STEEL
CIP CAST-IN-PLACE CONCRETE	LAV LAVATORY	LAVATORY	ST (ST-) STAIN
CL CENTER LINE	LD LINEAR FOOT, (FEET)	LINEAR FOOT, (FEET)	STA STAIR
CLG CEILING	LL LIVE LOAD	LIVE LOAD	STC SOUND TRANSMISSION CLASS
CLO CLOSET	LKR (LKR-) LOCKER	LOCKER	STD STANDARD
CLR CLEAR	LVV LONG LEG VERTICAL	LONG LEG VERTICAL	STL STEEL
CMU CONCRETE MASONRY UNIT	LNG LONGITUDINAL	LONGITUDINAL	STN (STN-) STONE
CM CENTER METER	LP LOW POINT	LOW POINT	STRG STORAGE
CON CONCRETE	LT LIGHT	LIGHT	STRUC STRUCTURAL
CONN CONNECTION	LTG LIGHTING	LIGHTING	SUSP SUSPENDED
CONSTR CONSTRUCTION	LVL LEVEL	LEVEL	SV (SV-) SHEET VINYL
CONT CONTINUOUS	LVT LUXURY VINYL TILE	LUXURY VINYL TILE	SYMM SYMMETRICAL
CONTR CONTRACTOR	LWC LIGHT WEIGHT CONCRETE	LIGHT WEIGHT CONCRETE	T TREAD
COORD COORDINATE	M METER	METER	T/ TOP OF
CORR CORRIDOR	MB (MB-) MARKER BOARD	MARKER BOARD	T&B TOP & BOTTOM
CPT (CPT-) COUNTERSUNK CERAMIC TILE	MACH MACHINE	MACHINE	T&G TONGUE & GROOVE
CT (CT-) CENTER	MAINT MAINTENANCE	MAINTENANCE	TB (TB-) TACK BOARD
CU CUBIC	MAS MASONRY	MASONRY	TEL TELEPHONE
CW COLD WATER	MAT MATERIAL	MATERIAL	TEMP TEMP
CWT CERAMIC WALL TILE	MAX MAXIMUM	MAXIMUM	TERR (TERR-) TERRAZZO
CCTV CLOSURE CIRCUIT TELEVISION	MCB METAL CORNER BEAD	METAL CORNER BEAD	THK THICK
d PENNY (NAIL)	MDF MEDIUM DENSITY FIBERBOARD	MEDIUM DENSITY FIBERBOARD	THRESH THRESHOLD
DEG DEGREE	MECH MECHANICAL	MECHANICAL	TI TENANT IMPROVEMENT
DEM DEMOLISH, DEMOLITION	MEMB MEMBRANE	MEMBRANE	TLT TOILET
DEPT DEPARTMENT	MEZ MEZZANINE	MEZZANINE	TMPD TEMPERED
DET DETAIL	MEZZ MEZZANINE	MEZZANINE	TOPO TOPOGRAPHY
DF (DF-) DRINKING FOUNTAIN	MFR MANUFACTURER	MANUFACTURER	TRTD TREATED
DIA DIA. Ø DIAMETER	MH MANHOLE	MANHOLE	TS TUBE STEEL
DIFF DIFFUSER	MIN MINIMUM	MINIMUM	TSO TOILET SEAT COVER
DIM DIMENSION	MIR (M-) MIRROR	MIRROR	TSO (TSO-) TOILET SEAT COVER
DISP DISPENSER	MISC MISCELLANEOUS	MISCELLANEOUS	TTD (TTD-) TOILET TISSUE DISPENSER
DIV DIVISION	MM MILLIMETER	MILLIMETER	TV TELEVISION
DL DEAD LOAD	MO MASONRY OPENING	MASONRY OPENING	TYP TYPICAL
DN DOWN	MTG MOUNTING	MOUNTING	UC UNDER COUNTER
DP DAMPPROOFING	MU MULLION	MULLION	UC(L) (UC-L-) UNDER CABINET LIGHTING
DR DOOR	MVB MOVABLE	MOVABLE	UNEX UNEXCAVATED
DS DOWNSPOUT	N NORTH	NORTH	UNFIN UNFINISHED
DW DISHWATER	NIC NOT IN CONTRACT	NOT IN CONTRACT	UNGR UNDERGROUND
DWG DRAWING	NOM NOMINAL	NOMINAL	UNH UNIT HEATER
DWW DRAINAGE, WASTE AND VENT	NSF NET SQUARE FEET	NET SQUARE FEET	UNL UNDERWRITER'S
E EAST	NTS NOT TO SCALE	NOT TO SCALE	UNO LABORATORIES
E1 EAST	O/O OUT TO OUT	OUT TO OUT	UNLESS NOTED OTHERWISE
E1FS EXTERIOR INSULATION AND FINISH SYSTEM	OA OVERALL	OVERALL	UTL UTILITY
EJ EXPANSION JOINT	OC ON CENTER	ON CENTER	VB (VB-) VINYL BASE
EL ELEVATION	OD OUTSIDE DIAMETER	OUTSIDE DIAMETER	VCT (VCT-) VINYL COMPOSITION TILE
ELAST ELASTOMERIC (ELECTRICAL)	OF/CI OWNER FURNISHED, CONTRACTOR INSTALLED	OWNER FURNISHED, CONTRACTOR INSTALLED	VENT VENTILATION
ELEV ELEVATOR	OF/OI OWNER FURNISHED, OVERFLOW DRAIN	OWNER FURNISHED, OVERFLOW DRAIN	VERT VERTICAL
EMER EMERGENCY	OH OFFICE	OFFICE	VEST VESTIBULE
ENCL ENCLOSURE	OP (OP-) OVERHEAD PROJECTOR	OVERHEAD PROJECTOR	VIF VERIFY IN FIELD
ENGR ENGINEER	OPH OPPOSITE HAND	OPPOSITE HAND	VOL VOLUME
ENTR ENTRANCE	OPNG OPENING	OPENING	VNR (VNR-) VENEER
EO ELECTRIC OUTLET	OPP OPPOSITE	OPPOSITE	VR VAPOR RETARDER
EOS EDGE OF SLAB	PA PUBLIC ADDRESS	PUBLIC ADDRESS	V SHT VINYL SHEET
EP ELECTRICAL PANEL	PBD PARTICLE BOARD	PARTICLE BOARD	VT (VT-) VINYL TILE
EQ EQUIPMENT	PCC (PCC-) PRE-CAST CONCRETE	PRE-CAST CONCRETE	VWC (VWC-) VINYL WALL COVERING
EQS EQUIPMENT IN SHOWER	PERF PERFORATED	PERFORATED	W WEST
ETC ET CETERA	PERP PERPENDICULAR	PERPENDICULAR	W/ WITH
EW EACH WAY	PGB PEG BOARD	PEG BOARD	WO WITHOUT
EWC ELECTRIC WATER COOLER	PL PLATE	PLATE	WD (WD-) WOOD
EXC EXCAVATION, EXCAVATE	PLAM PLASTIC LAMINATE	PLASTIC LAMINATE	WG (WG-) WIDE FLANGE
EXH EXHAUST	PLAS PLASTER	PLASTER	WH WATER HEATER
EXIST EXISTING	PLB PLUMBING	PLUMBING	WI WINDOW
EXP EXPANSION	PLYWOOD PLYWOOD	PLYWOOD	WO WROUGHT IRON
EXPO EXPOSED	PNT (P-) PAINT	PAINT	WM WIRE MESH
EXT EXTERIOR, EXTERNAL	POL POLISHED	POLISHED	WP WATER PROOFING
F FACE OF	PREFAB PREFABRICATE(D)	PREFABRICATE(D)	WSC WASTE RECEPTACLE
F/F FACE TO FACE	PRKNG PARKING	PARKING	WST WAINSCOT
FA FIRE ALARM	PROJ PROJECT	PROJECT	WT WEIGHT
FAAP FIRE ALARM ANNUNCIATOR	PROP PROPERTY	PROPERTY	WWF WELDED WIRE FABRIC
FAB (FAB-) FABRIC	PS (PS-) PROJECTION SCREEN	PROJECTION SCREEN	x BY
FABR FABRICATE(D)	PSF POUNDS PER SQUARE FOOT	POUNDS PER SQUARE FOOT	YD YARD
FACP FIRE ALARM CONTROL PANEL	PSH (PSH-) PURSE SHELF	PURSE SHELF	ZN ZINC
FC (FC-) FIRE CABINET	PSI POUNDS PER SQUARE INCH	POUNDS PER SQUARE INCH	
FD FLOOR DRAIN	PT POINT	POINT	
FDN FOUNDATION	PTD (PTD-) PAPER TOWEL DISPENSER	PAPER TOWEL DISPENSER	
FE FIRE EXTINGUISHER	PTN PARTITION	PARTITION	
FEC FIRE EXTINGUISHER CABINET	PVC POLYVINYL CHLORIDE	POLYVINYL CHLORIDE	
FFE FINISH FLOOR ELEVATION	PVG PAVING	PAVING	
FFBE FINISHING FIXTURES AND EQUIPMENT	QT (QT-) QUARRY TILE	QUARRY TILE	
FH FIRE HYDRANT	QTY QUANTITY	QUANTITY	
FHC FIRE HOSE CABINET			
FHVC FIRE HOSE VALVE CABINET			
FHR FIRE HOSE RACK			
FN FINISHED			
FN FLR EL FINISHED FLOOR ELEVATION			
FX FT FIXTURE			
FLASH FLASHING			
FLEX FLEXIBLE			
FLR FLOOR			
FLOR FLORESCENT			
FO FINISHED OPENING			
FP FIRE PROTECTION			
FRW FIRE RETARDANT TREATED WOOD			
FTS FOOTING			
FTR FINNED TUBE RADIATION			
FURN FURNISH, FURNITURE			
FURR FURRING			
FUT FUTURE			

SYMBOLS LEGEND

SHEET NUMBER



ROOM NAMES AND NUMBERS



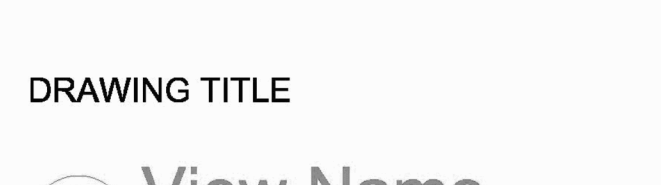
NORTH ARROW



VERTICAL ELEVATION TARGET



SPOT ELEVATION



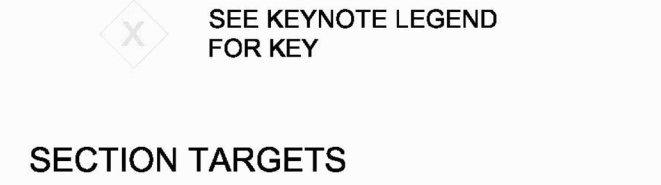
DRAWING TITLE



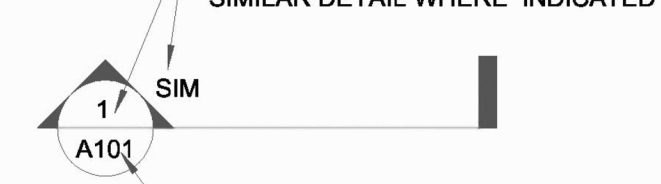
BREAK LINE



DATUM POINT



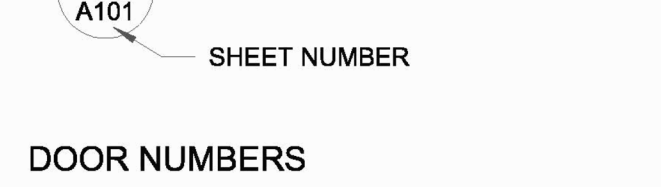
KEY NOTE



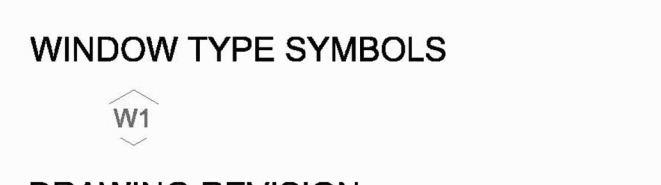
SECTION TARGETS



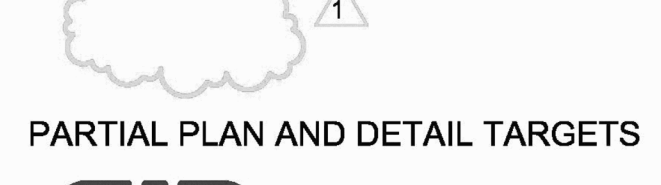
ELEVATION TARGETS



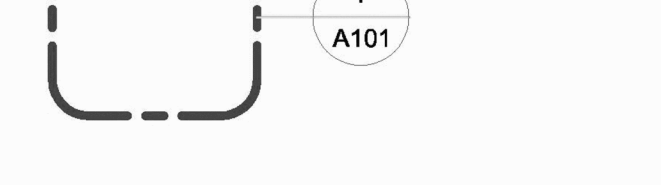
DOOR NUMBERS



WINDOW TYPE SYMBOLS



DRAWING REVISION



PARTIAL PLAN AND DETAIL TARGETS



CEILING HEIGHT/TYPE TAG



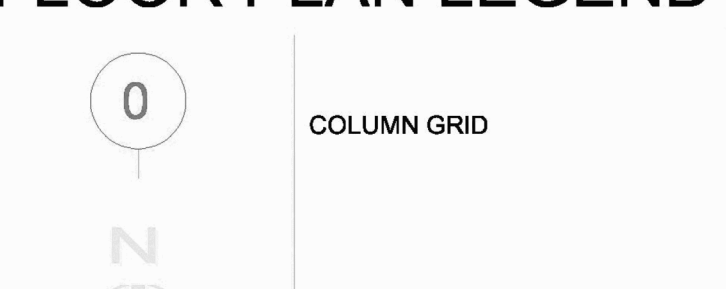
COLUMN GRID



CENTER LINE



FLOOR PLAN LEGEND



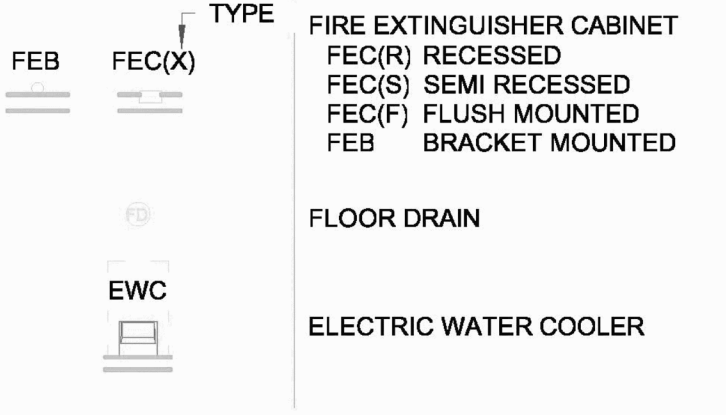
ROOF PLAN LEGEND



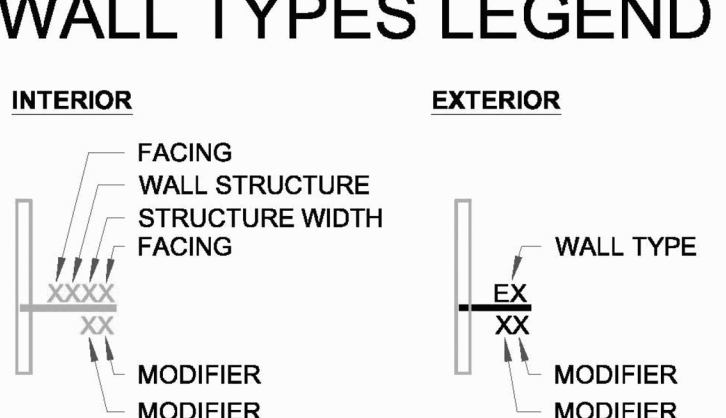
GENERAL ROOF NOTES

- Unless otherwise noted, all roof slopes shall be 1/4" rise per foot.
- Typical roofing shall be a _____ roofing system. See roof details for additional information.
- Provide all tapered insulation, crickets, curbs, and accessories required for positive roof drainage.
- Roof slopes shown indicate the final roof slope. Roof structure slopes where indicated on structural drawings to reduce quantity of tapered insulation.
- Provide splash box for roof top equipment condensate drains.
- 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.

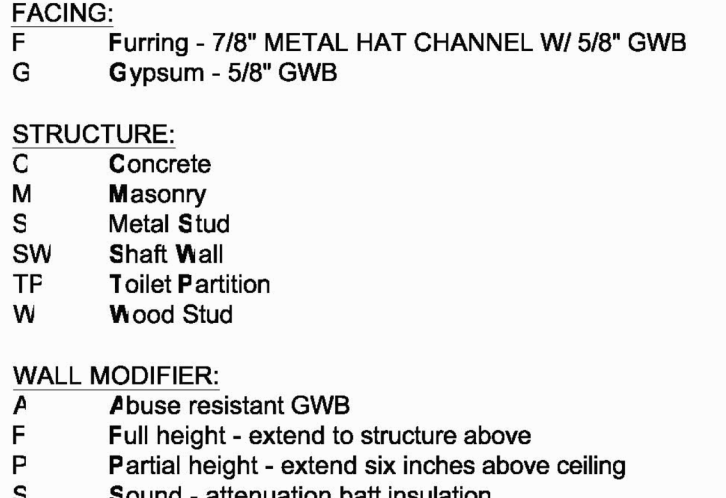
DEMOLITION LEGEND



WALL TYPES LEGEND



REFLECTED CEILING PLAN LEGEND



WALL LEGEND



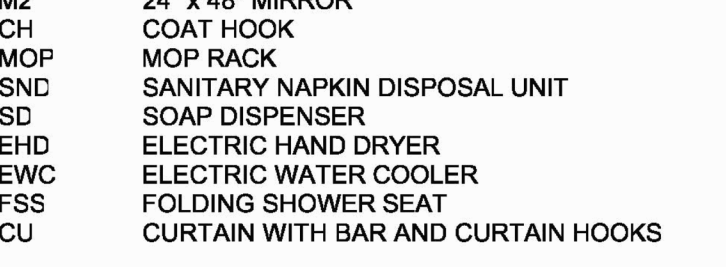
WALL LEGEND NOTES:

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

CASEWORK LEGEND



TOILET ACCESSORY LEGEND



CESSORY NOTES

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

TOILET NOTES

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

ACCESSORY LEGEND



PROJECT NOTES

- CIRCULATION**
 C1- 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 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 RECEPTACLES, 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 FINISHED 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 SPECIFIC 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 HAZ



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ALTERATIONS & ADDITIONS

**POWERS BUILDING
A-WING**

OSE PROJECT NO.
H59-6353-JM

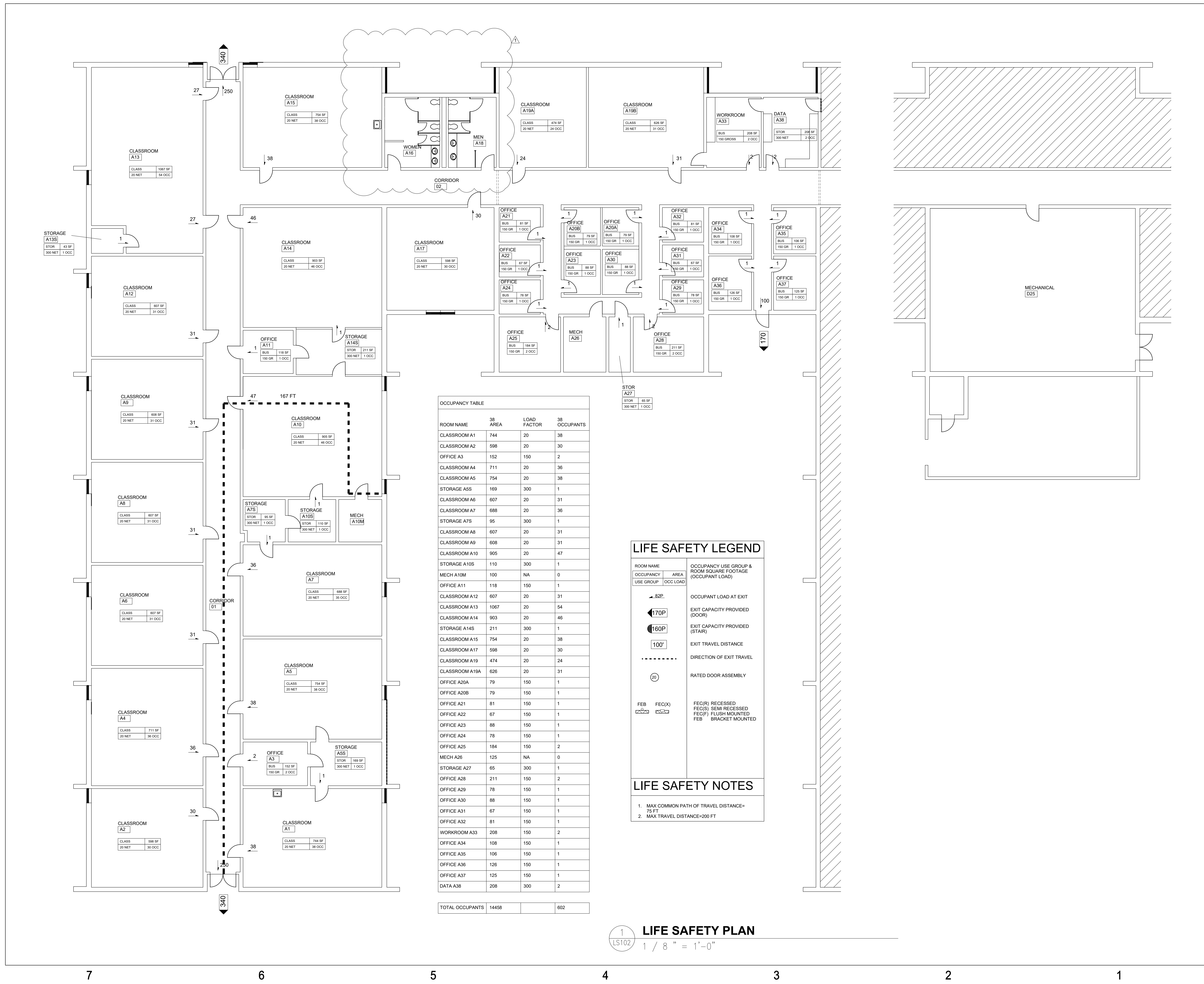
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
▲	5/28/26	OSE COMMENTS

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LIFE SAFETY PLAN

LS102



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 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(R) RECESSED
FEC(X)	FEC(S) SEMI RECESSED
⊞	FEC(F) FLUSH MOUNTED
⊞	FEB BRACKET MOUNTED

LIFE SAFETY NOTES

- MAX COMMON PATH OF TRAVEL DISTANCE= 75 FT
- MAX TRAVEL DISTANCE=200 FT

1 LIFE SAFETY PLAN
LS102 1 / 8 " = 1'-0"



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ALTERATIONS & ADDITIONS

**POWERS BUILDING
A-WING**

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131 COMMUNITY COLLEGE DRIVE
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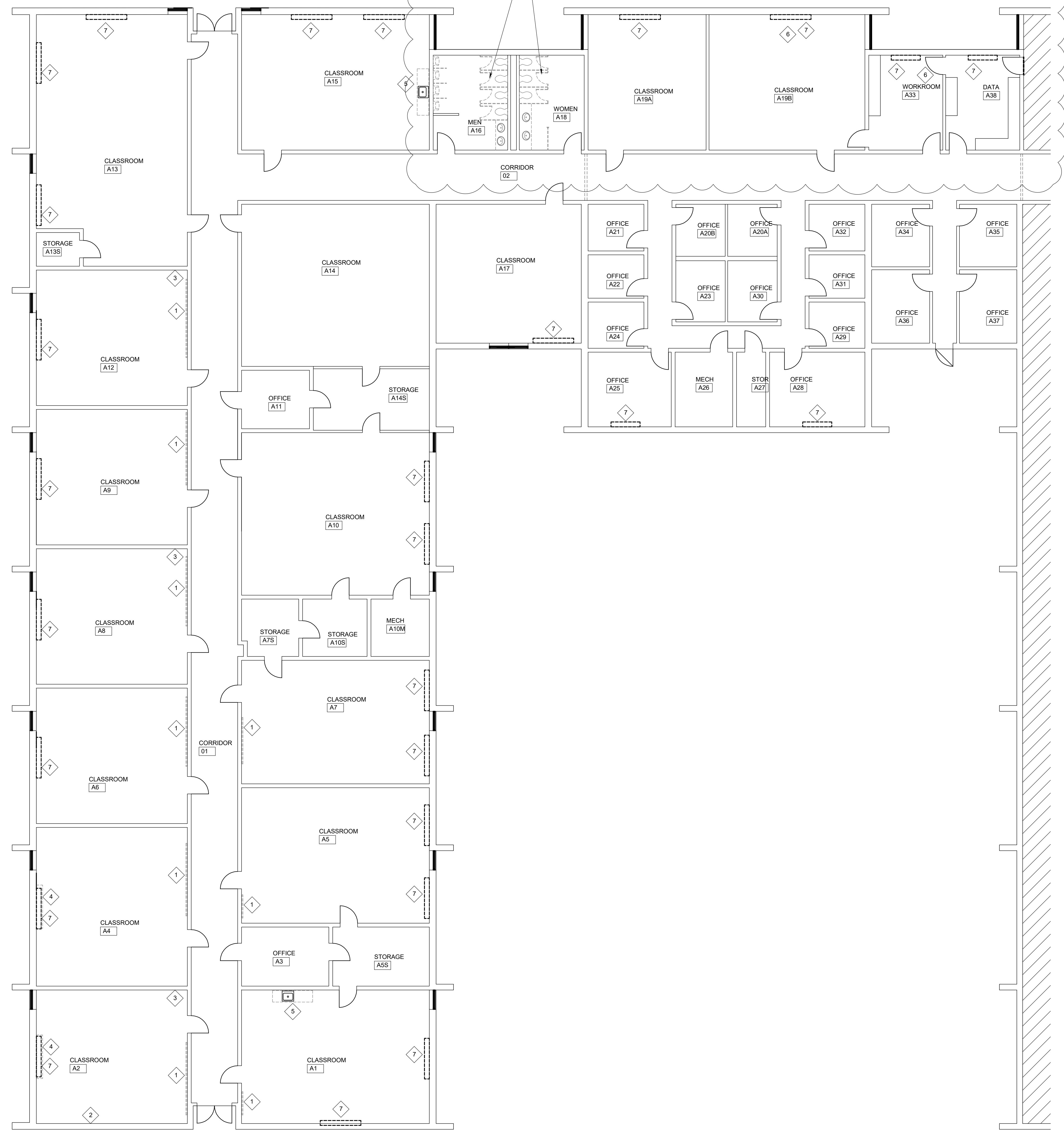
DEMO PLAN

D101

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 PAINTING.
- 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 PAINTING.
- 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.

TOILET ROOM DEMO SCOPE:
-DEMO TOILET & URINAL PARTITIONS
-DEMO 1 WC IN EACH TOILET ROOM
-DEMO 4 URINALS IN EXISTING MEN'S ROOM
-DEMO BASE CABINETS, COUNTERTOPS, SINKS, & FAUCETS IN BOTH TOILET ROOMS



1 DEMO PLAN PLAN
1 / 8 " = 1'-0"

7 6 5 4 3 2 1

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POWERS BUILDING A-WING

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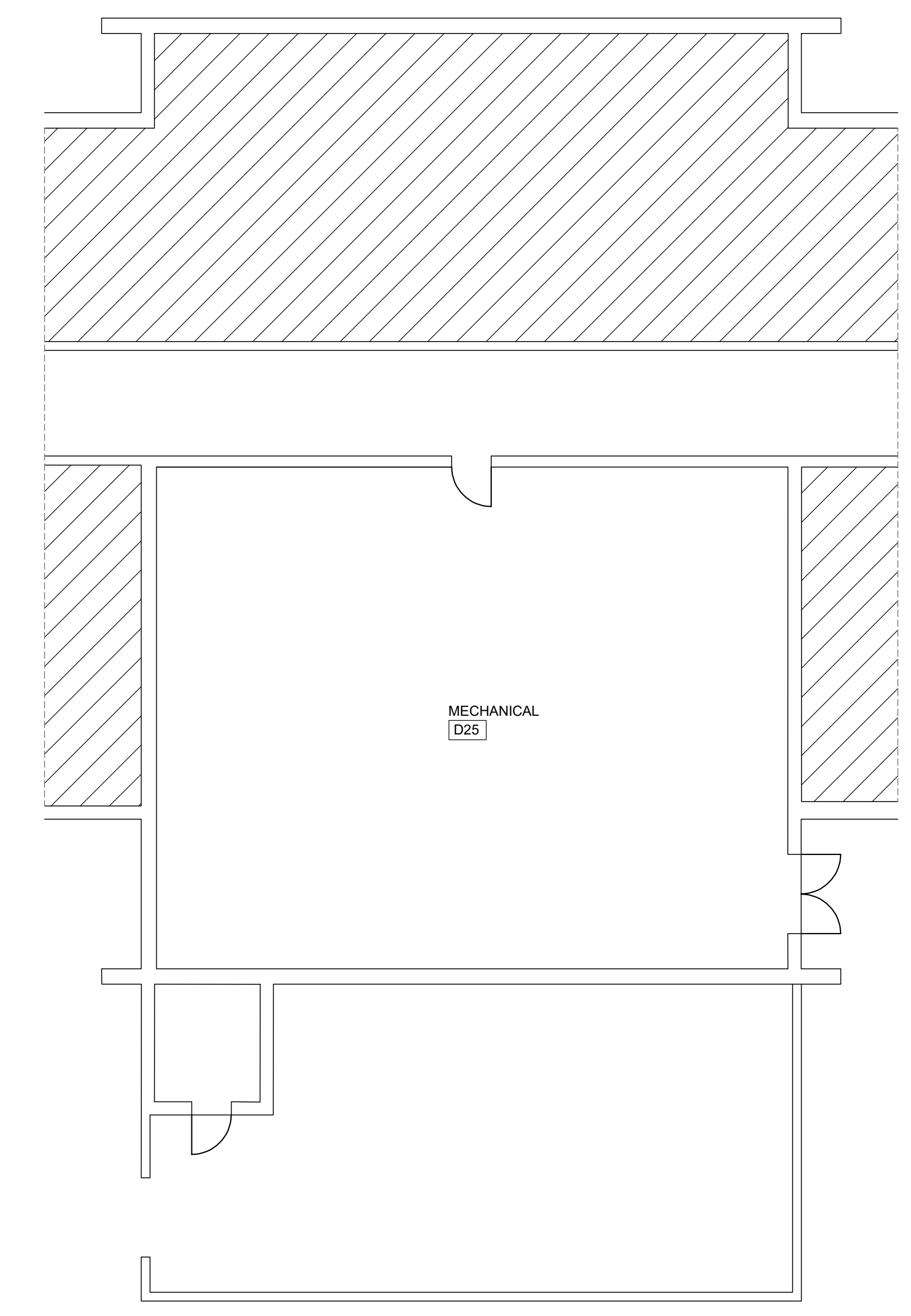
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FLOOR PLAN

A101



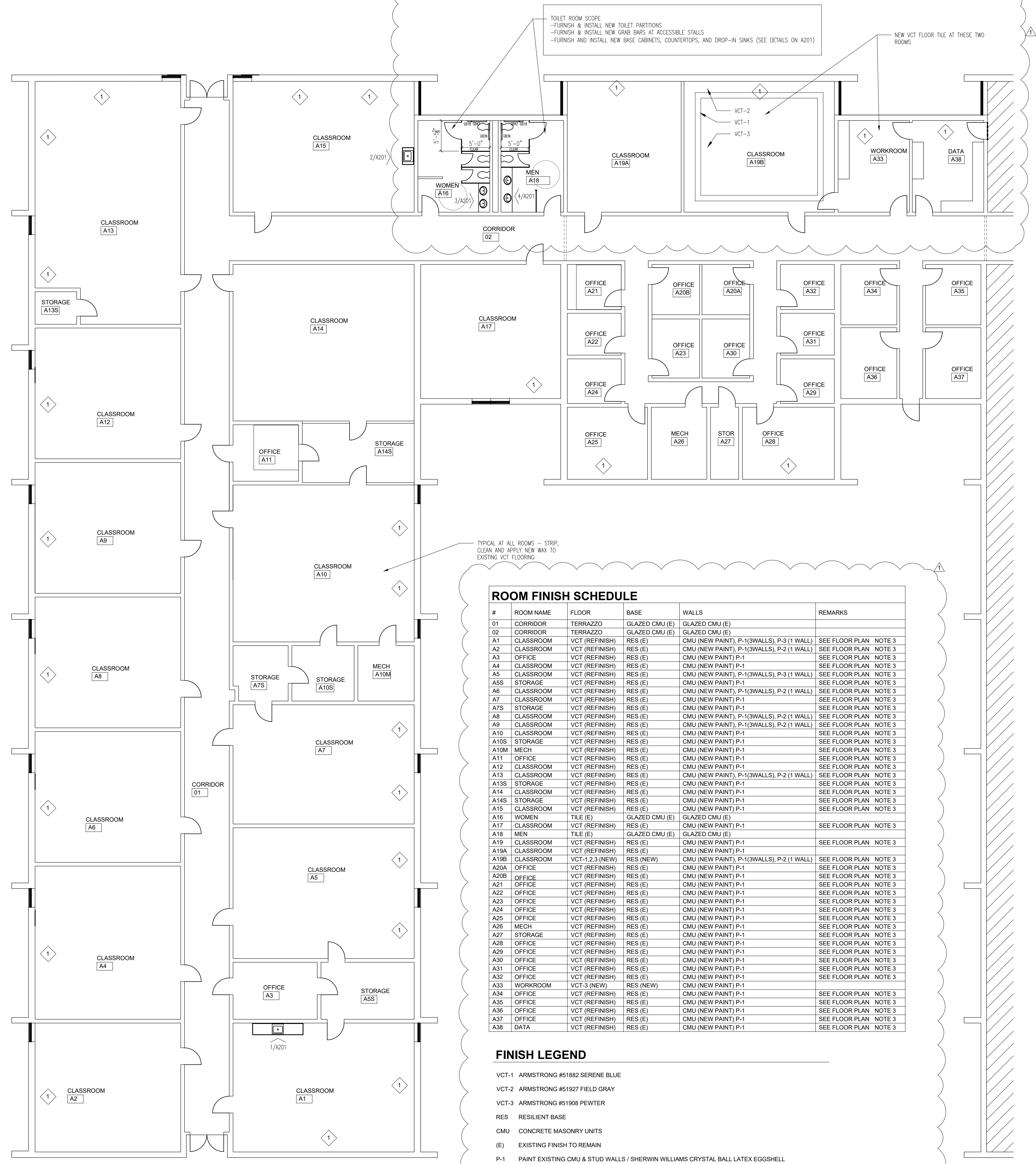
MECH ROOM FLOOR PLAN
1 / 8 " = 1'-0"

FLOOR PLAN NOTES

- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF FINISH. DIMENSIONS TO WOOD STUD WALLS IN SUCCESSION ARE DIMENSIONED TO CENTER OF STUDS.
- ALL EXISTING DOORS SHALL BE SNADED, STAINED, AND SEALED, IN PLACE. PROTECT ALL HARDWARE DURING REFINISHING OPERATIONS.
- 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.
- 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.
- 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)



#	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
A6S	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	SEE FLOOR PLAN NOTE 3
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	SEE FLOOR PLAN NOTE 3
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 #6782, LATEX ENAMEL, SEMI-GLOSS

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

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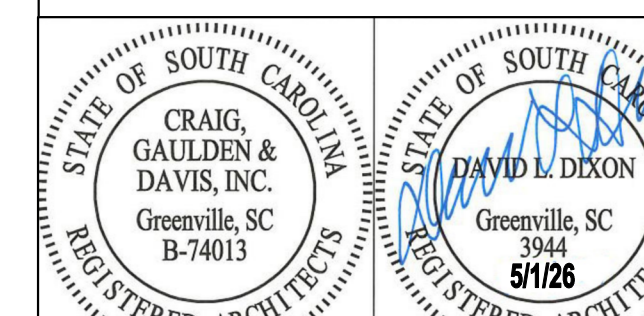
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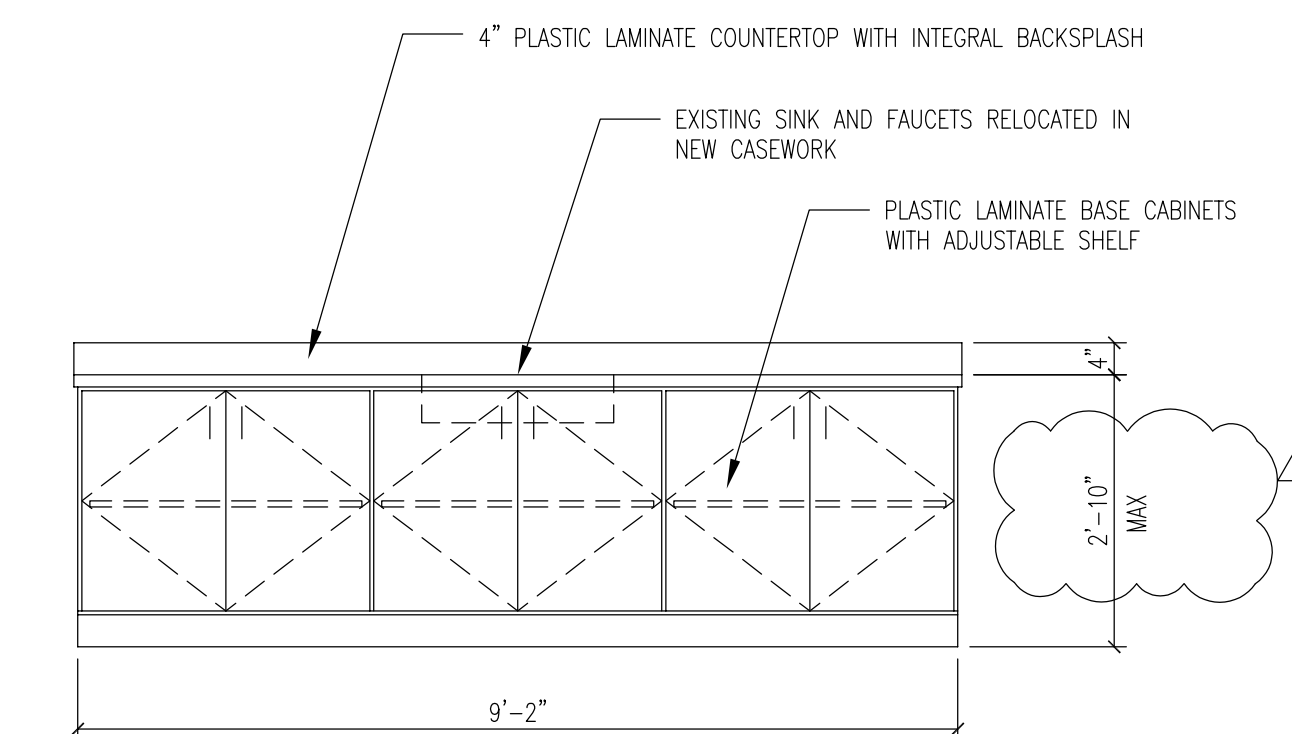
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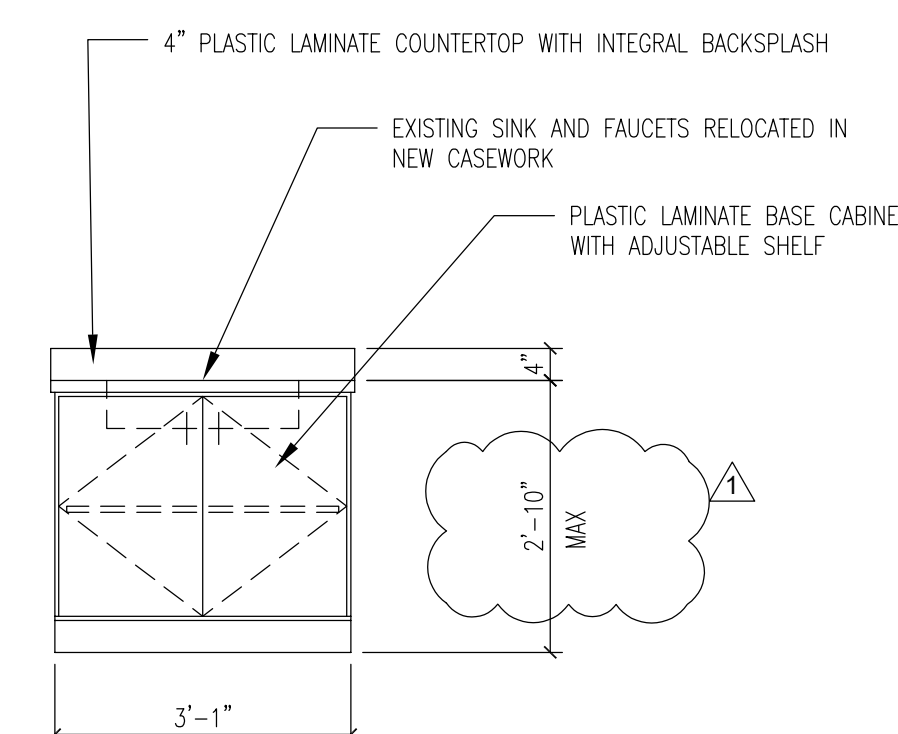
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ENLARGED PLANS INTERIOR DETAILS

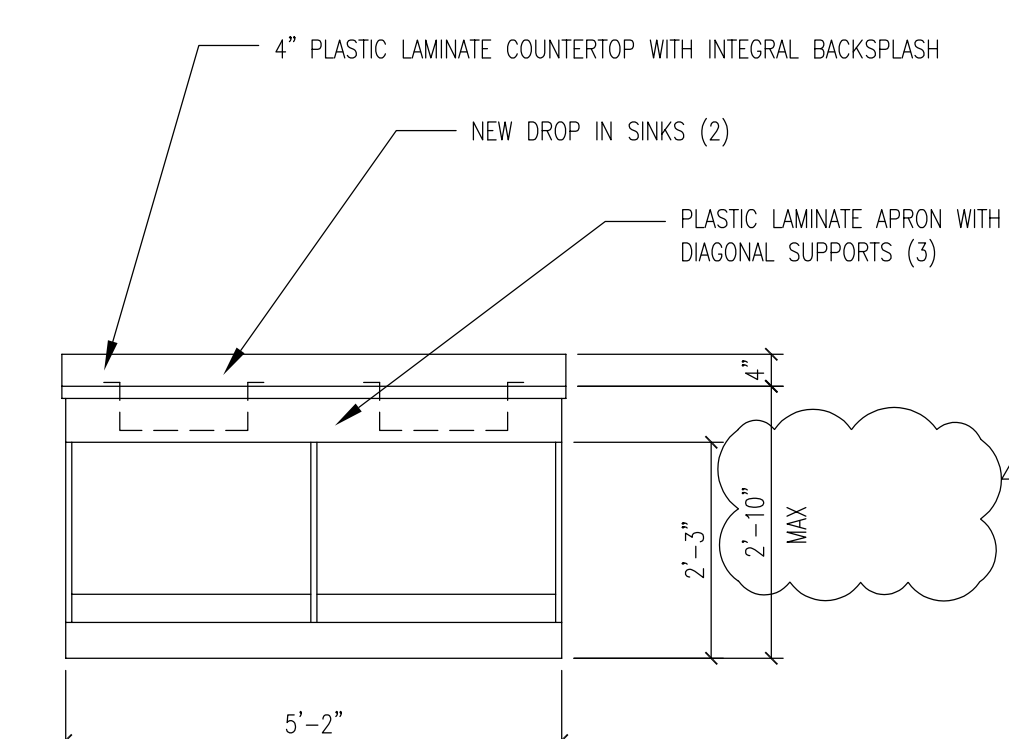
A201



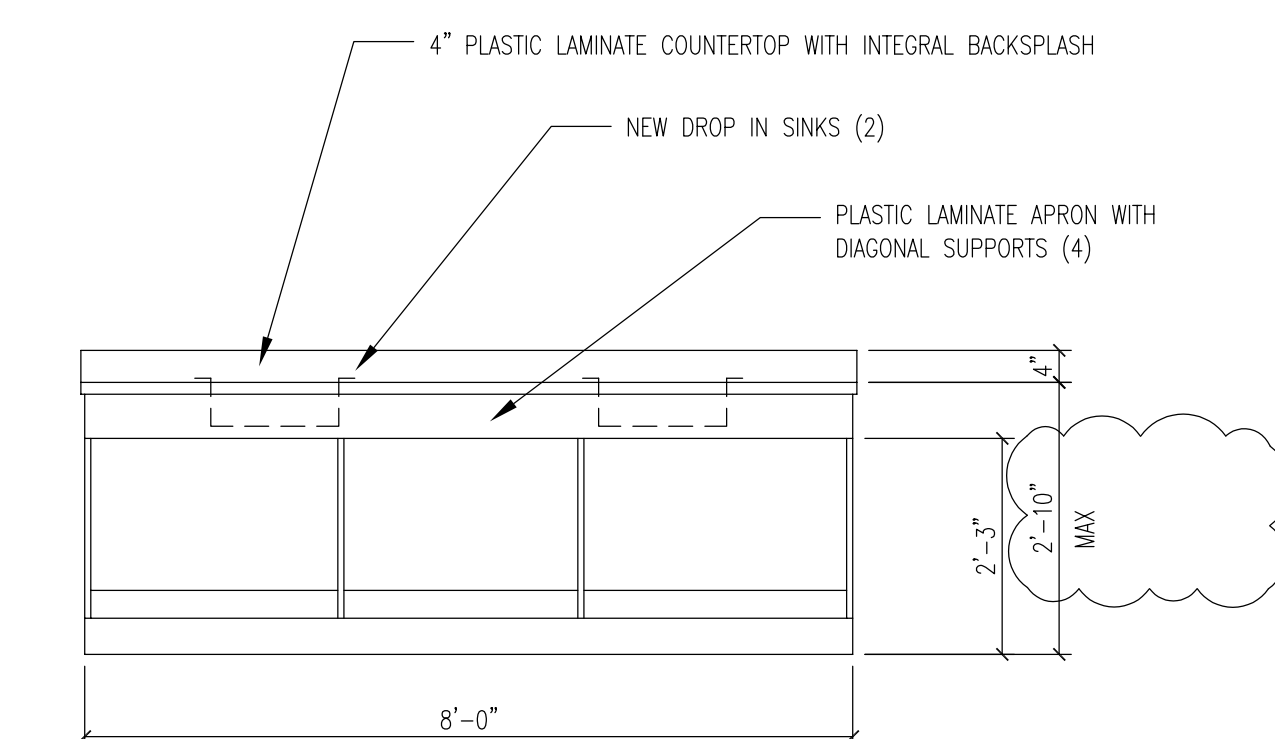
1 CLASSROOM A1
1 / 2 " = 1'-0"



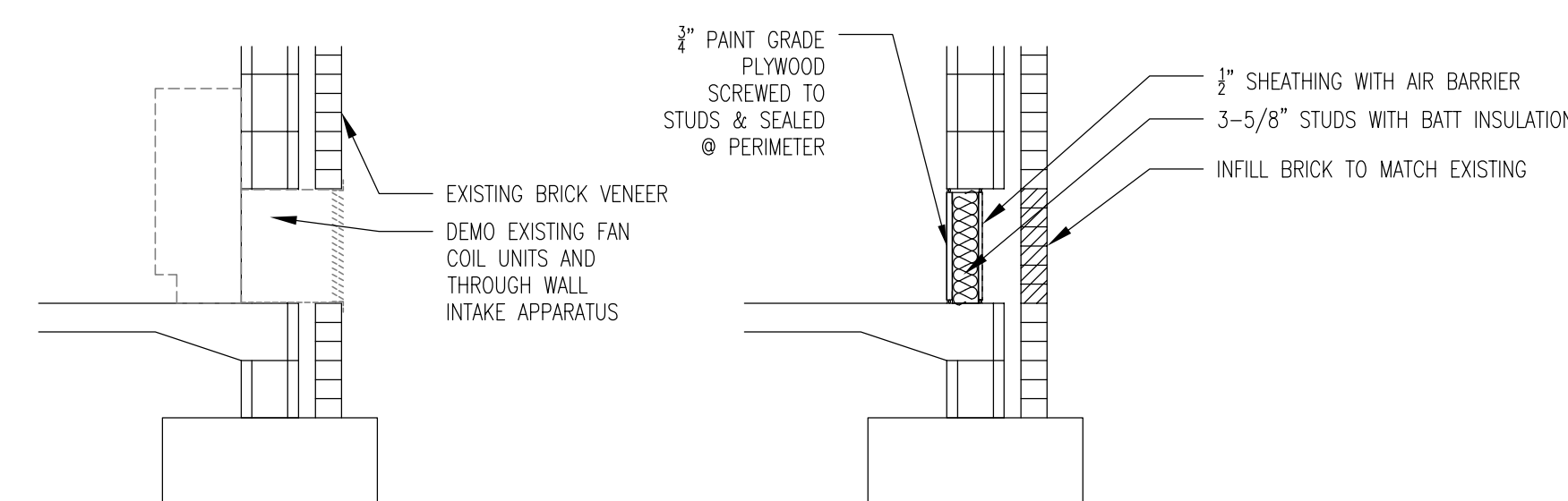
2 CLASSROOM A15
1 / 2 " = 1'-0"



3 MEN A16
1 / 2 " = 1'-0"

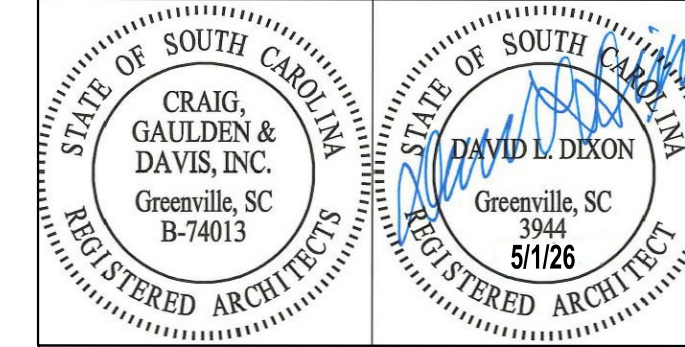


4 WOMEN A18
1 / 2 " = 1'-0"



CONDITION EXISTS AT 25 LOCATIONS AT BUILDING PERIMETER

5 FAN COIL REPAIR DETAIL
1 / 2 " = 1'-0"



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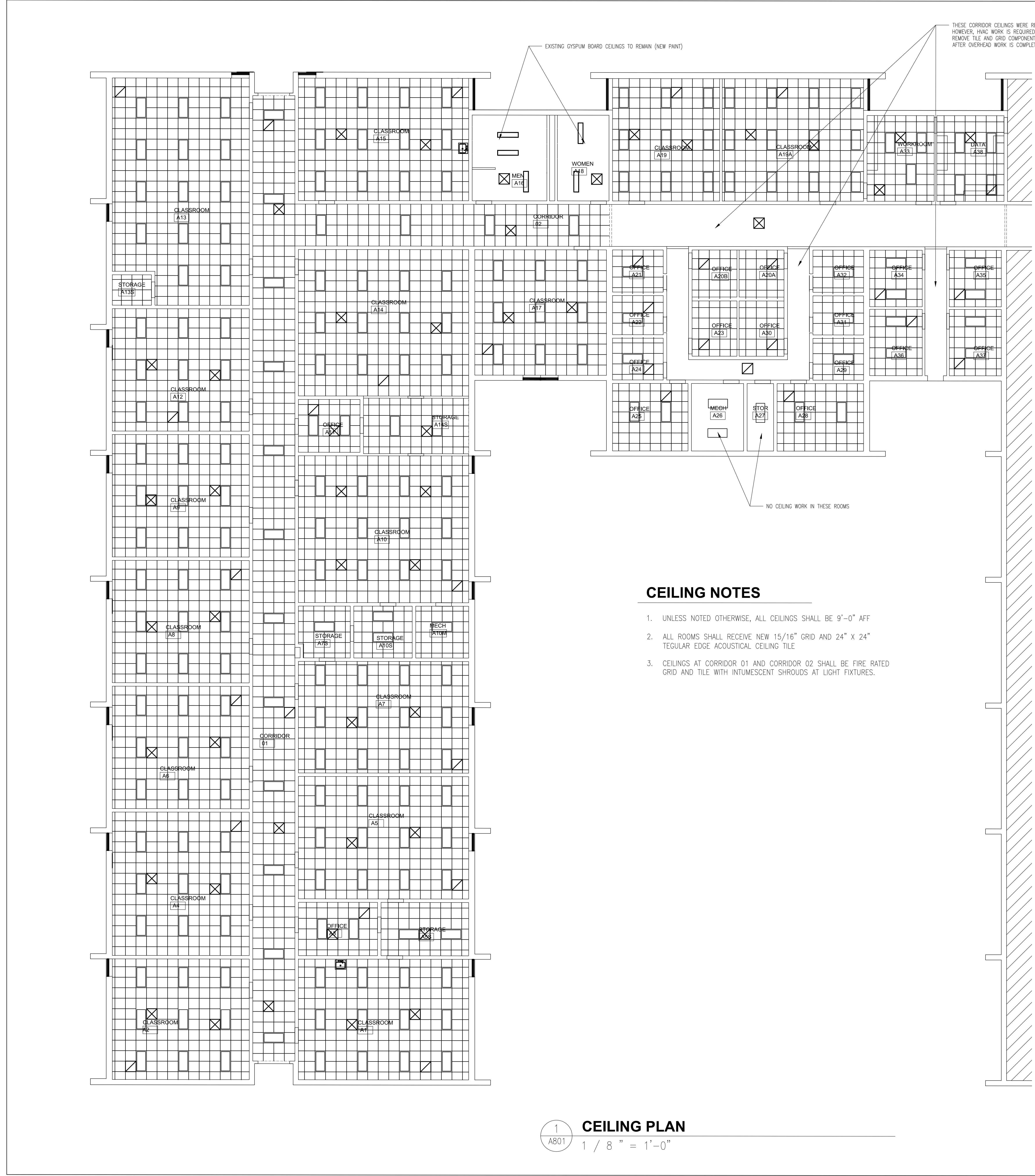
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CEILING PLAN

A801



THESE CORRIDOR CEILINGS WERE REPLACED DURING A PREVIOUS PHASE, HOWEVER, HVAC WORK IS REQUIRED ABOVE THESE CEILINGS. CAREFULLY REMOVE TILE AND GRID COMPONENTS FOR NEW INSTALLATIONS AND REPLACE AFTER OVERHEAD WORK IS COMPLETE

EXISTING GYPSUM BOARD CEILINGS TO REMAIN (NEW PAINT)

NO CEILING WORK IN THESE ROOMS

CEILING NOTES

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

GENERAL CEILING NOTES

- See finish schedule for ceiling material specifications.
- Unless noted otherwise, suspended grid ceilings shall be centered in all spaces.
- Unless noted otherwise, all ceiling heights shall be installed 10'-0" above the finished floor elevation.
- 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.
- See engineering drawings for mechanical and electrical devices that are within the scope of the project but which are not depicted on these drawings.
- 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.
- Contractor shall provide all necessary framing and cross bracing for gypsum ceilings and vertical walls that define a break in a ceiling plane.
- 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.
- 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 ACOUSTICAL 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
1 / 8 " = 1'-0"

GENERAL NOTES:

- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL COORDINATE ALL ROOF OPENINGS WITH STRUCTURAL, ARCHITECTURAL, AND MECHANICAL DRAWINGS.
- ALL MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE WITH SOUTH CAROLINA MODIFICATIONS.
- 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.
- 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.
- 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.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN CASE OF DISCREPANCIES, NOTIFY THE ENGINEER FOR INTERPRETATION.
- 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.
- 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 # C04H45GDGC: 13,100 LB (RTU WEIGHT FROM HVAC ROOF PLAN DATED 4/3/2026 FROM CROW AND BULMAN ENGINEERING, INC.)

EXHAUST FANS: 800 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, $I = 1.0$
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: $GC_{pi} = \pm 0.18$ <ASCE 7-16, TABLE 26.13-1>

SEISMIC DESIGN DATA:
RISK CATEGORY: III
IMPORTANCE FACTOR, $I = 1.25$
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:

- DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, FIFTEENTH EDITION, UNLESS NOTED OTHERWISE.
- 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)
- 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.
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.
- 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.
- SHOP CONNECTIONS MAY BE BOLTED OR WELDED.
- FIELD CONNECTIONS SHALL BE BOLTED UNLESS NOTED OTHERWISE ON DRAWINGS.
- 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.
- PROVIDE MISCELLANEOUS STEEL & SUPPORT ANGLES AROUND ROOF PENETRATIONS AND OPENINGS REQUIRED TO SUPPORT ENDS AND EDGES OF METAL DECK.
- 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.
- 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 FILET WELDS SHALL BE CONTINUOUSLY MONITORED DURING WELDING.
D. SINGLE-PASS FILET 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.
- 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.
- PIPPING GREATER THAN 4" SHALL BE SUPPORTED @ 10'-0" O.C. MAX. AND SHALL BE CONSIDERED IN THE DESIGN.

SUBMITTALS:

- 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 CONTRACTOR'S 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.
- 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 2	-18.2	-18.2	-18.2	-18.2	-16.0	-16.0	-16.0	-16.0
Negative Zone 3	-41.7	-39.0	-35.5	-32.8	-30.1	-28.0	-26.6	-26.6
Negative Zone 4	-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

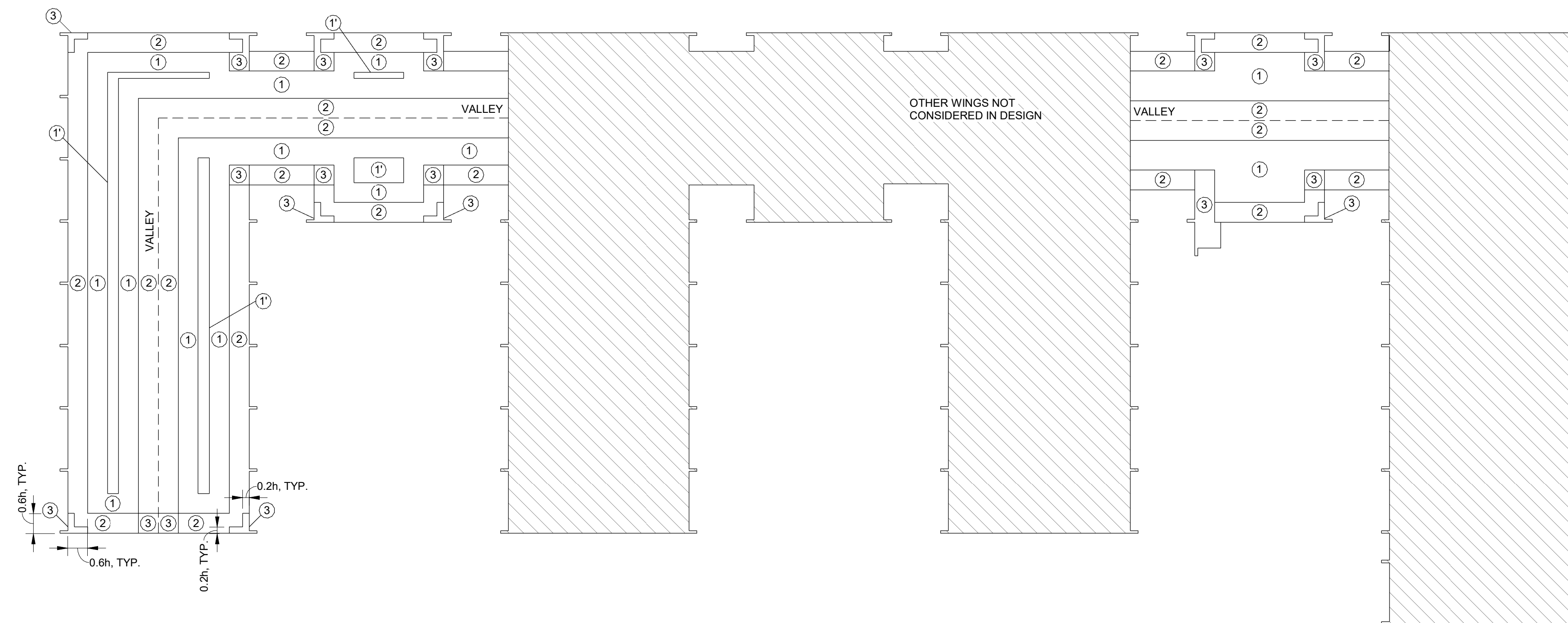
PARAPET SURFACE PRESSURES						
SOLID PARAPET PRESSURE	10 sf	20 sf	50 sf	100 sf	200 sf	500 sf
CASE A: Zone 2:	53.8	50.4	45.7	42.3	38.8	34.2
Zone 3:	69.0	62.8	54.7	48.5	42.3	34.2
CASE B: Interior zone:	-31.8	-30.2	-28.1	-26.5	-24.8	-22.7
Corner zone:	-36.3	-33.9	-30.7	-28.3	-25.9	-22.7

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



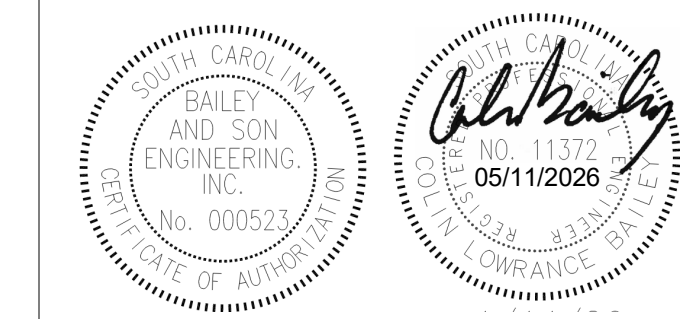
COMPONENTS AND CLADDING DIAGRAM AND LOAD TABLE

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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK DATE DESCRIPTION

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

PROJECT NOTES & DESIGN CRITERIA

S001

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 CONSIDERED 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 ATTENTION 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 BY SECTION 1704.2.4 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.

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: SPECIAL INSPECTOR TO KEEP RECORD OF SPECIAL INSPECTIONS AND FURNISH INSPECTION REPORTS TO THE ENGINEER OF RECORD AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. X, -, 1704.2.4, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 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, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: A REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL PREPARE A STATEMENT OF SPECIAL INSPECTIONS. -, X, 1704.3 (THIS DOCUMENT), [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 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 SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY. -, X, 1704.4 (PAGE 4 DOCUMENT REQUIRED), [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: 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, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: 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, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. -, X, AISC 360, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS. -, -, ASTM STANDARDS, 1705.2.1, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: INSTALLATION OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS. -, X, SJI SPECIFICATION LISTED IN SEC. 2207.1, TABLE 1705.2.3, [checkbox], [checkbox]

Table with 5 columns: VERIFICATION AND INSPECTION, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARD, IBC REFERENCE, REQUIRED (YES, NO). Row 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, 1906.4, TABLE 1705.3, [checkbox], [checkbox]

Table with 5 columns: VERIFICATION AND INSPECTION, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARD, IBC REFERENCE, REQUIRED (YES, NO). Row 1: INSPECTION OF ANCHORS CAST IN CONCRETE. -, X, ACI 318: Ch. 17.8.2, 1905, TABLE 1705.3, [checkbox], [checkbox]

Table with 5 columns: VERIFICATION AND INSPECTION, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARD, IBC REFERENCE, REQUIRED (YES, NO). Row 1: INSPECTION OF PRE-STRESSED CONCRETE. X, -, ACI 318: Ch. 26.10, TABLE 1705.3, [checkbox], [checkbox]

Table with 5 columns: VERIFICATION AND INSPECTION, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARD, IBC REFERENCE, REQUIRED (YES, NO). Row 1: 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, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. -, X, AISC 360, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: EMPIRICALLY DESIGN MASONRY, GLASS UNIT MASONRY AND MASONRY VENEER IN RISK CATEGORY IV. -, -, SECTION 1908.210 2110 OR Ch. 14 SECTION 1904.5, SHALL COMPLY WITH TMS 602 LEVEL 2, 1705.4.1, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: HIGH-LOAD DIAPHRAGMS. -, -, IBC SEC. 2006.2, SEC. 1704.2 APPROVED CONSTRUCTION DRAWINGS, 1705.5.1, [checkbox], [checkbox]

Table with 5 columns: VERIFICATION AND INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: INSPECTION OF ANCHORAGE AND CONNECTIONS OF MASS TIMBER CONSTRUCTION TO DEEP TIMBER FOUNDATION SYSTEMS. -, X, TABLE 1705.5.3, [checkbox], [checkbox]

Table with 5 columns: VERIFICATION AND INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. -, X, TABLE 1705.6, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: VERIFY ELEMENT MATERIALS, SIZE AND LENGTHS COMPLY WITH THE REQUIREMENTS. X, -, TABLE 1705.7, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT. X, -, TABLE 1705.8, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: INSTALLATION OF HELICAL PILE FOUNDATIONS. X, -, APPROVED GEOTECHNICAL REPORT AND REGISTERED DESIGN PROFESSIONAL, 1705.9, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: SPECIAL INSPECTIONS FOR FABRICATED ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704.2.5. -, X, SEC. 1704.2.5 & 1705.11, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: STRUCTURAL WOOD. X, -, 1705.12.1, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 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, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: STRUCTURAL STEEL ELEMENTS IN THE SEISMIC FORCE RESISTING SYSTEMS OF BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F. -, -, SEC. 1705.12.1.1 AISC 341, 1705.13.1.2, [checkbox], [checkbox]

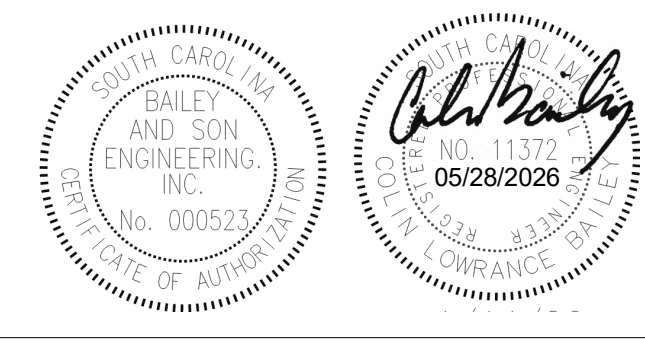
Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: FOR WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM. -, X, 1705.13.3, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: ARCHITECTURAL COMPONENTS IN D, E, OR F. -, X, 1705.13.5, [checkbox], [checkbox]

Table with 5 columns: INSPECTION TASK, FREQUENCY OF INSPECTION (CONTINUOUS, PERIODIC), REFERENCED STANDARDS, IBC REFERENCE, REQUIRED (YES, NO). Row 1: STORAGE RACKS 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, [checkbox], [checkbox]

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ALTERATIONS & ADDITIONS
POWERS BUILDING A-WING
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

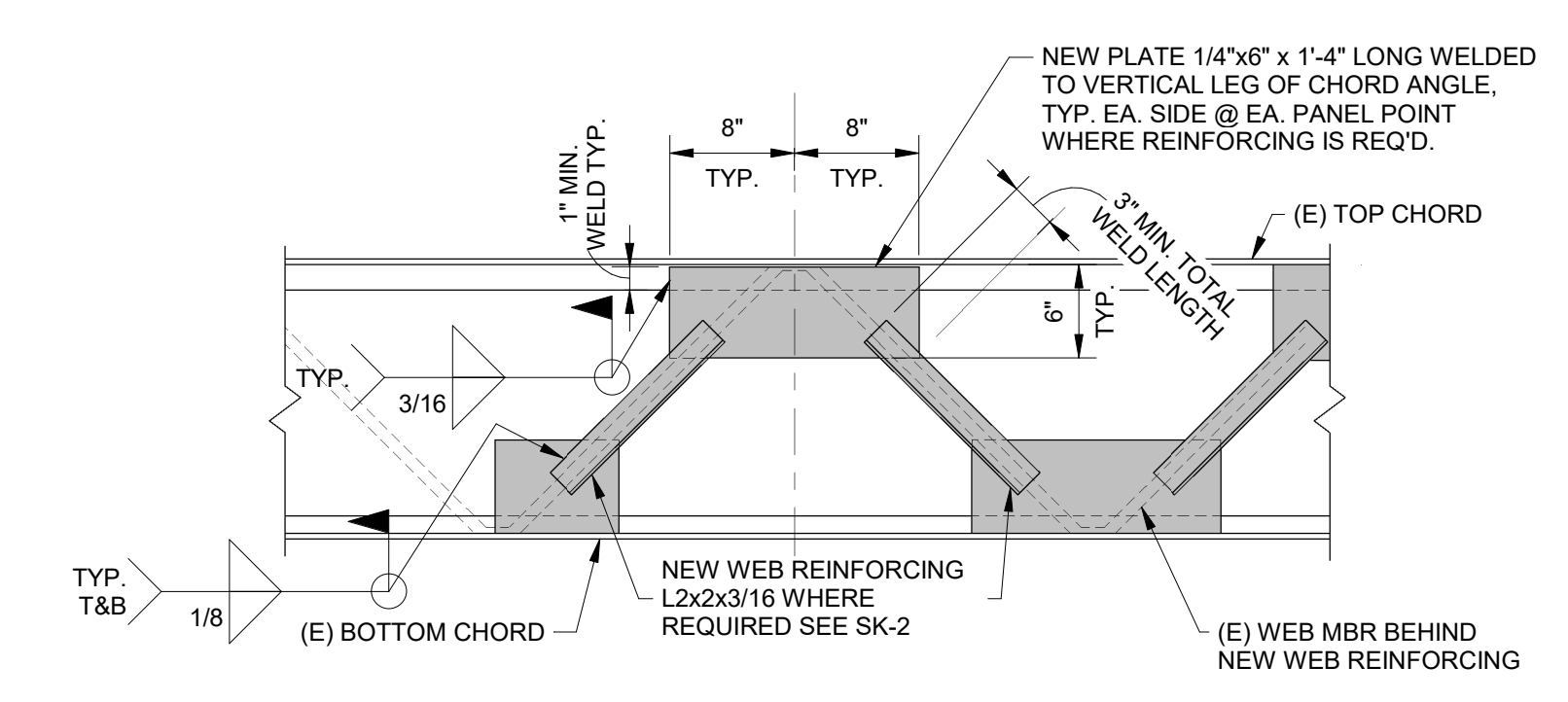
Table with 3 columns: MARK, DATE, DESCRIPTION. Row 1: [triangle], 5/28/2026, OSE COMMENTS

Table with 2 columns: ISSUE, OSE COMMENTS. Row 1: DATE: 05/28/26, PROJECT NO: 26149, DRAWN BY: WTF, CHECKED BY: CLB

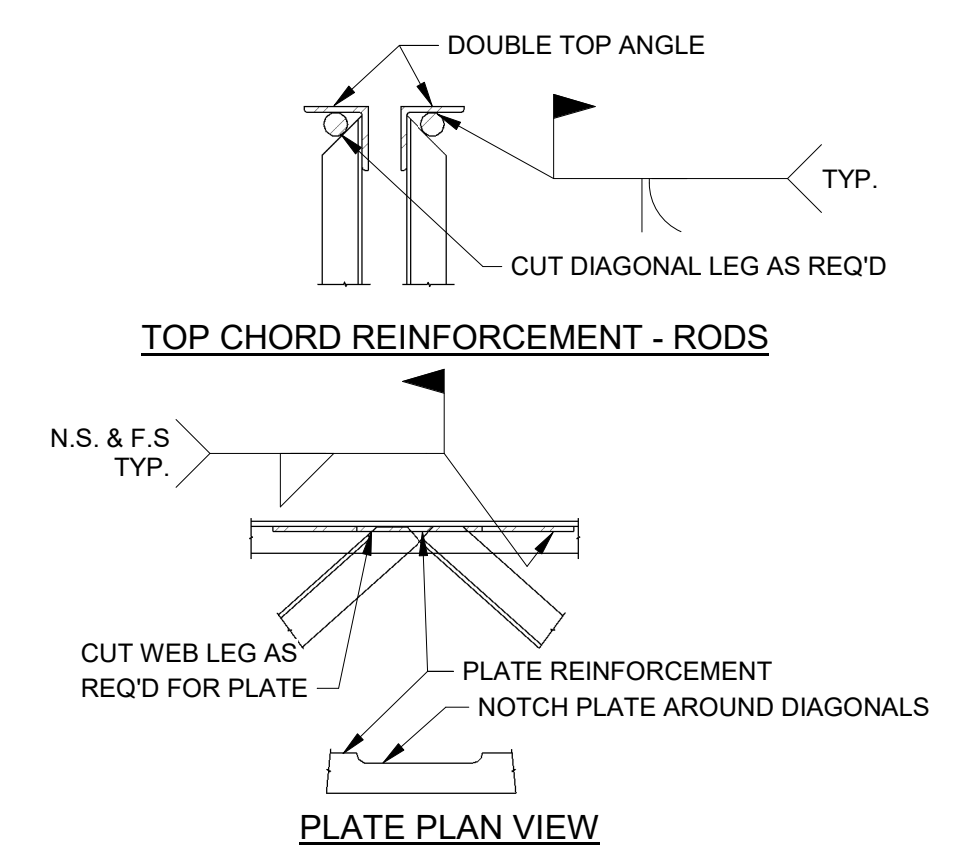
SPECIAL INSPECTIONS
S002

MARK	DATE	DESCRIPTION
△		

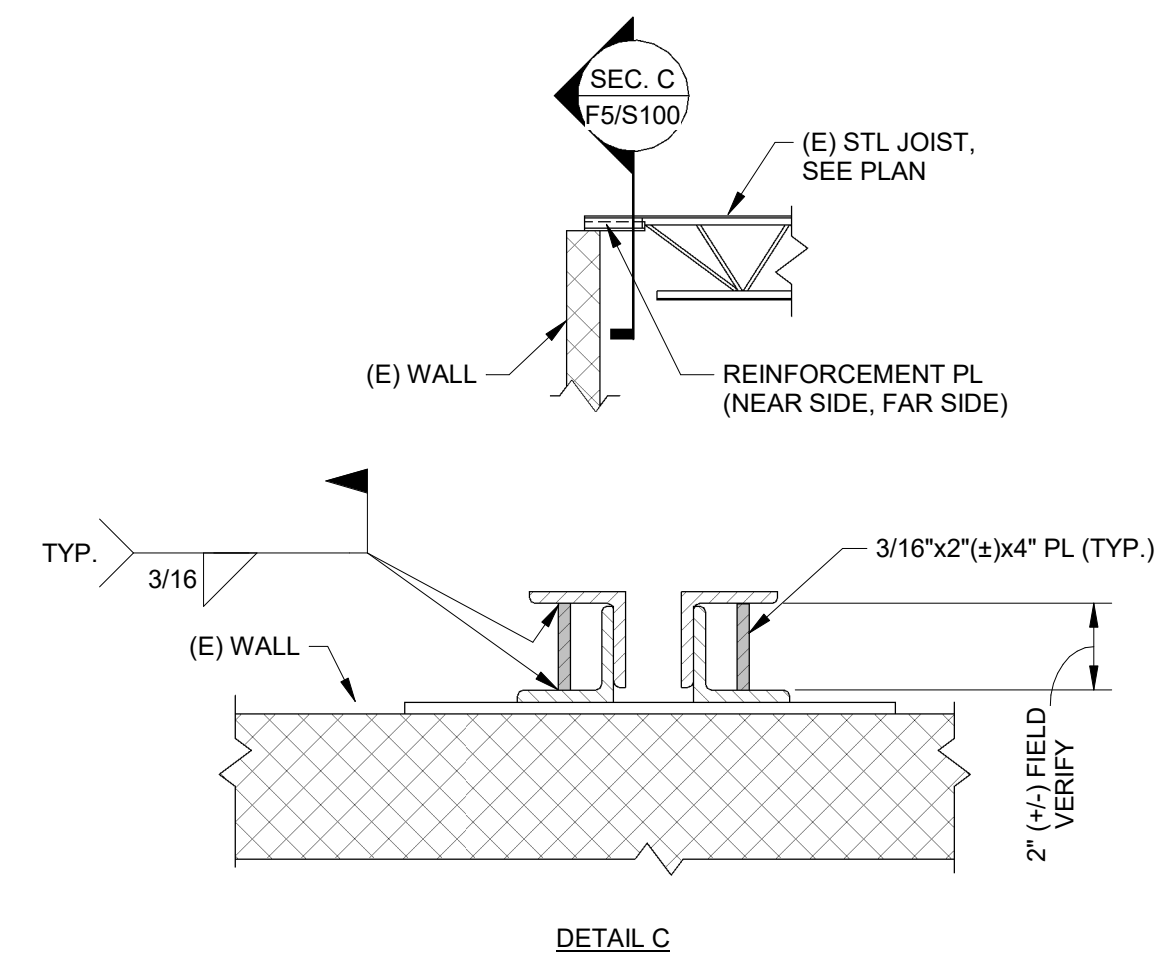
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DATE:	5/1/26
PROJECT NO:	26149
DRAWN BY:	WTF
CHECKED BY:	CLB



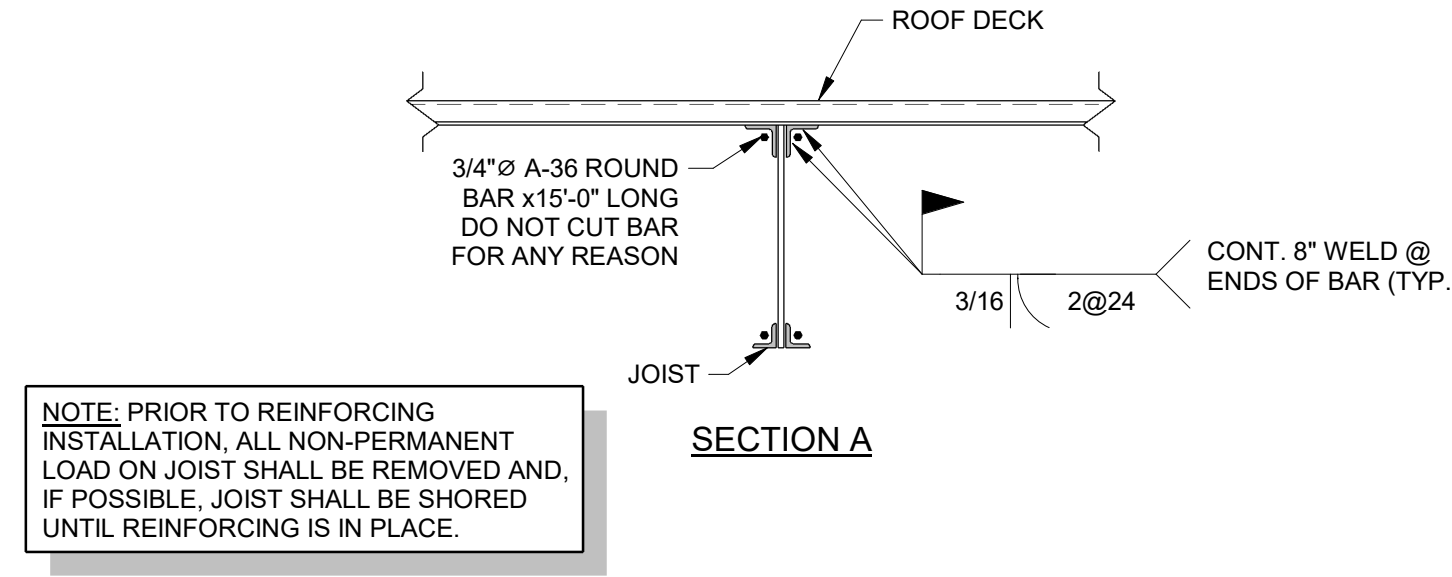
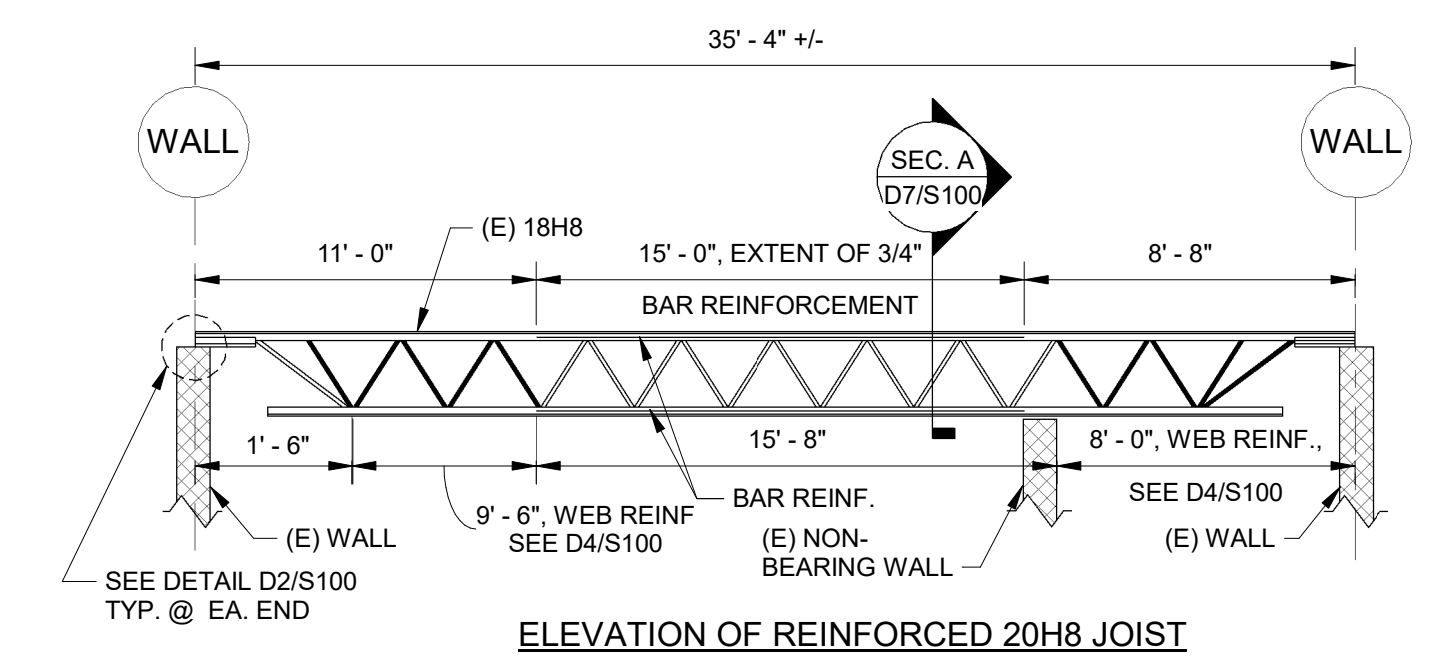
F2 JOIST REINFORCING DETAIL
S100 1" = 1'-0"



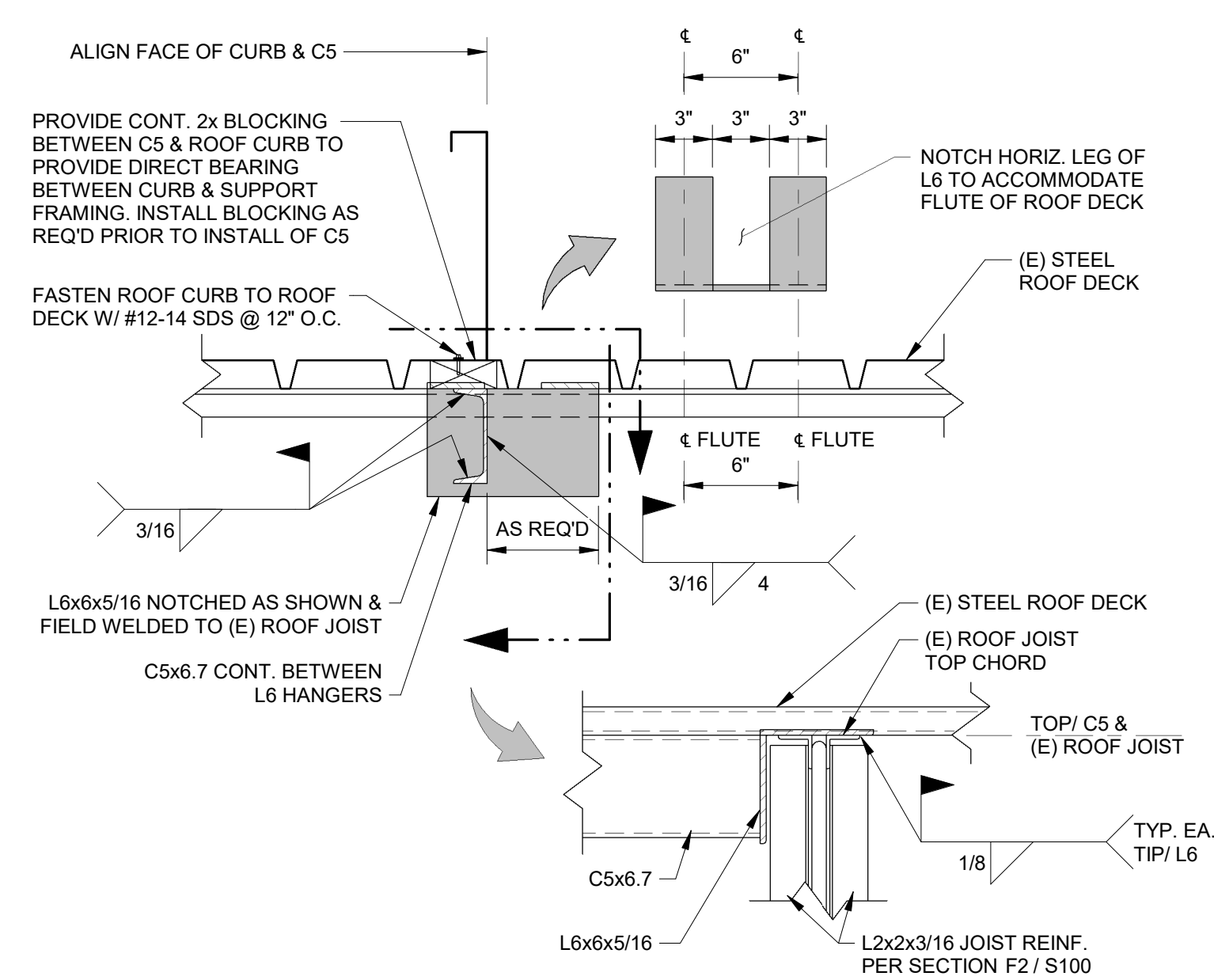
F4 CHORD REINFORCEMENT
S100 1" = 1'-0"



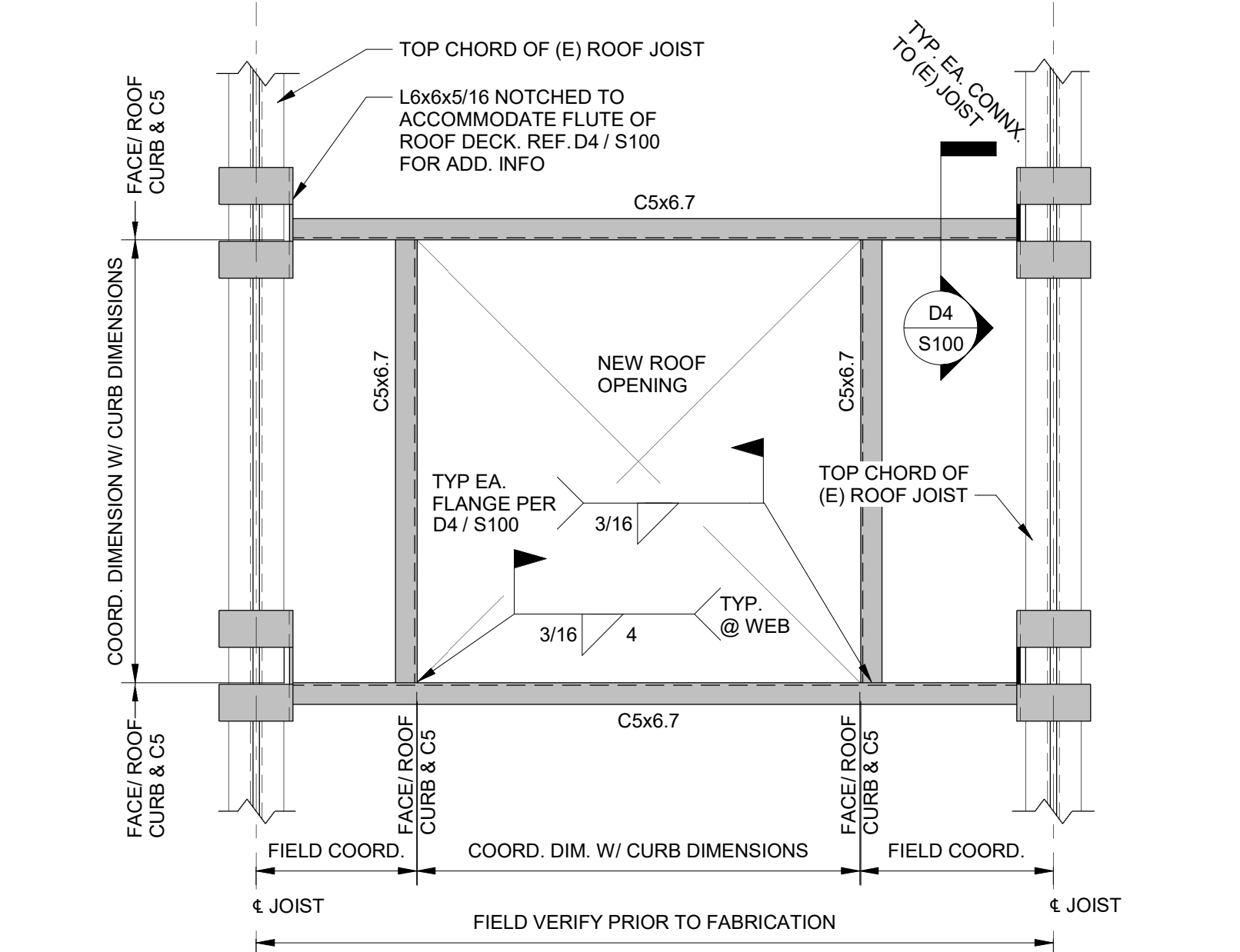
F5 JOIST SEAT REINFORCEMENT DETAIL
S100 1" = 1'-0"



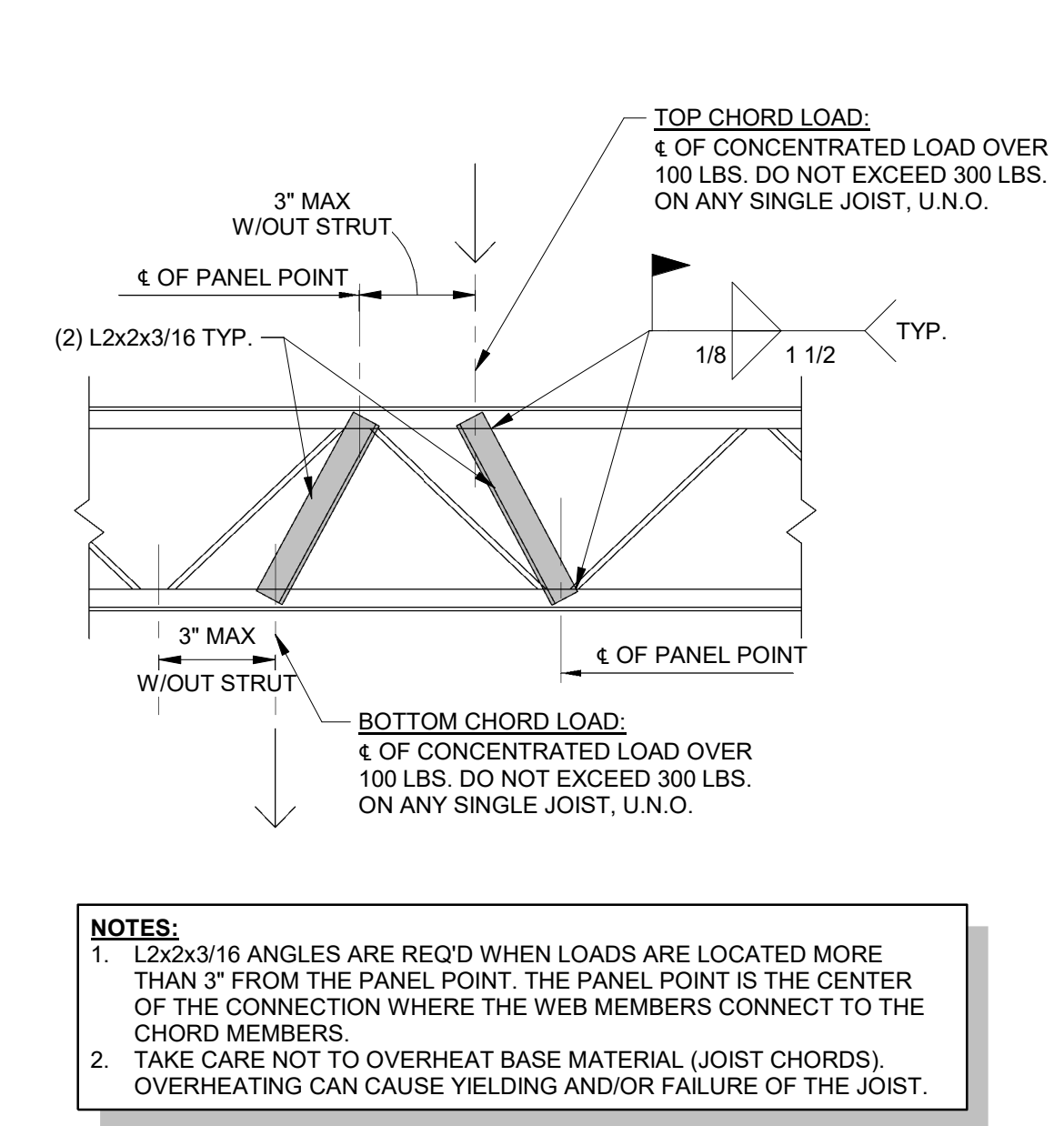
D7 REINFORCED JOIST ELEVATION & DETAIL
S100 NTS



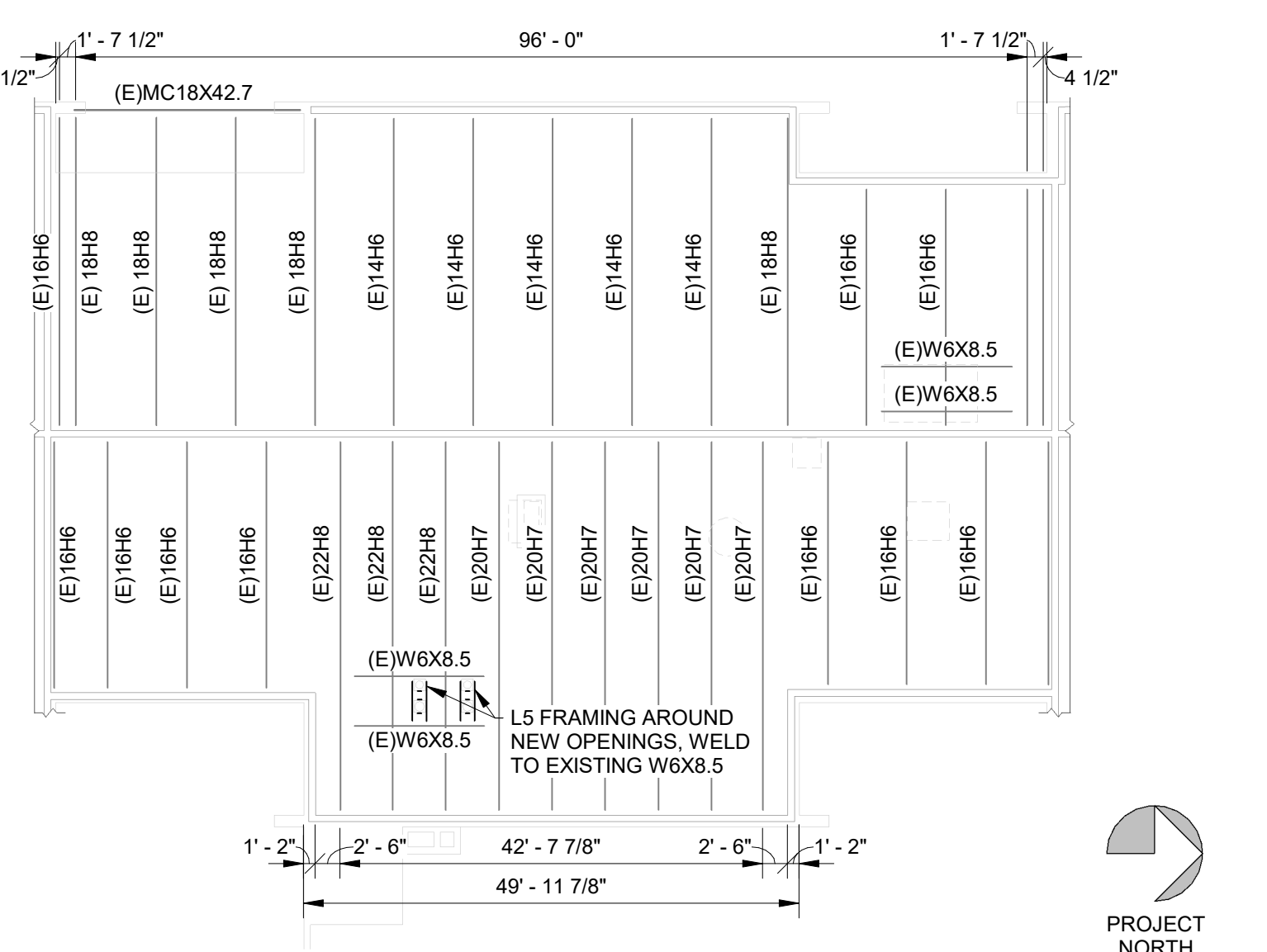
D4 DECK SUPPORT FRAMING CONNECTION TO JOISTS
S100 1 1/2" = 1'-0"



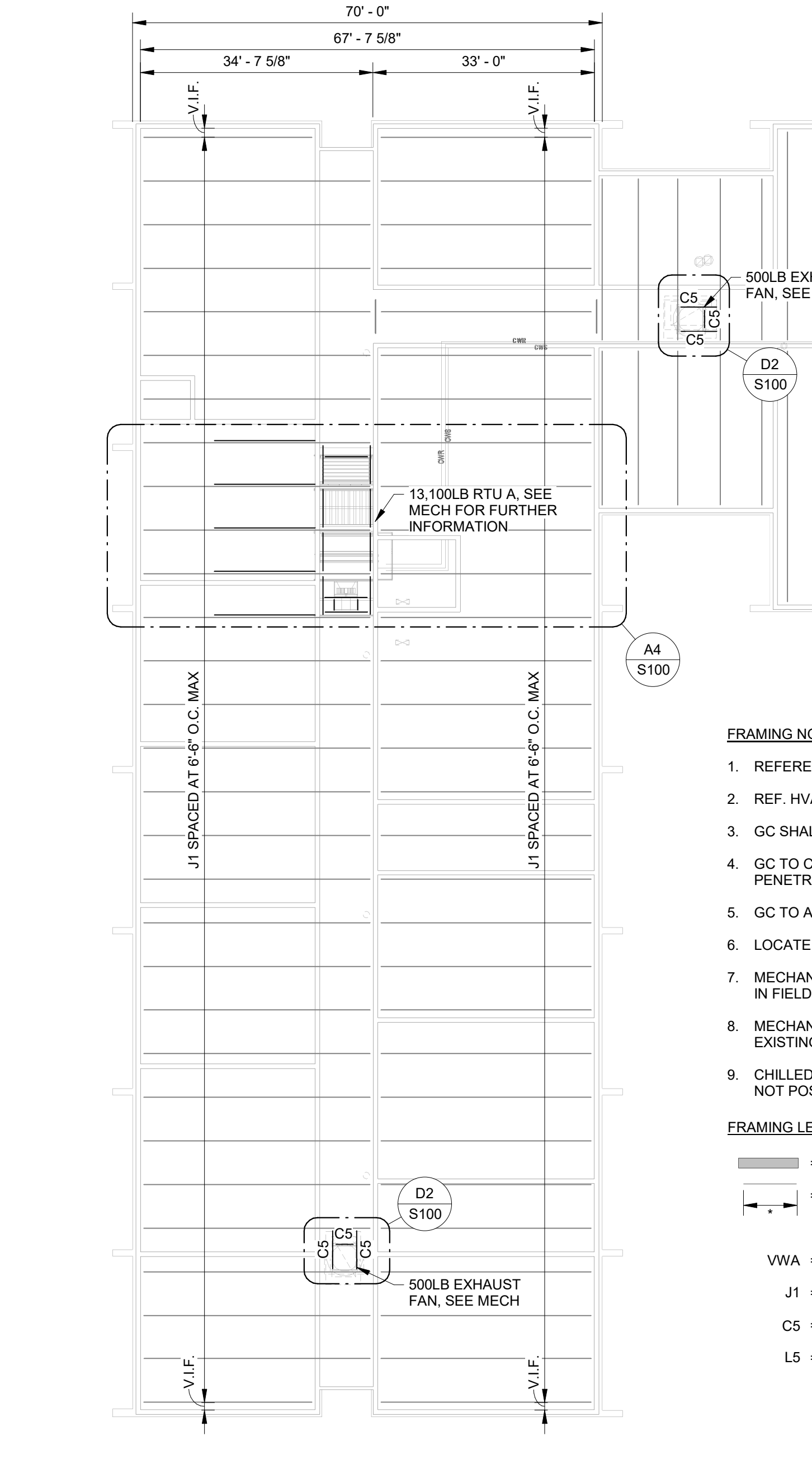
D2 DECK SUPPORT FRAMING W/ NEW OPENING
S100 1" = 1'-0"



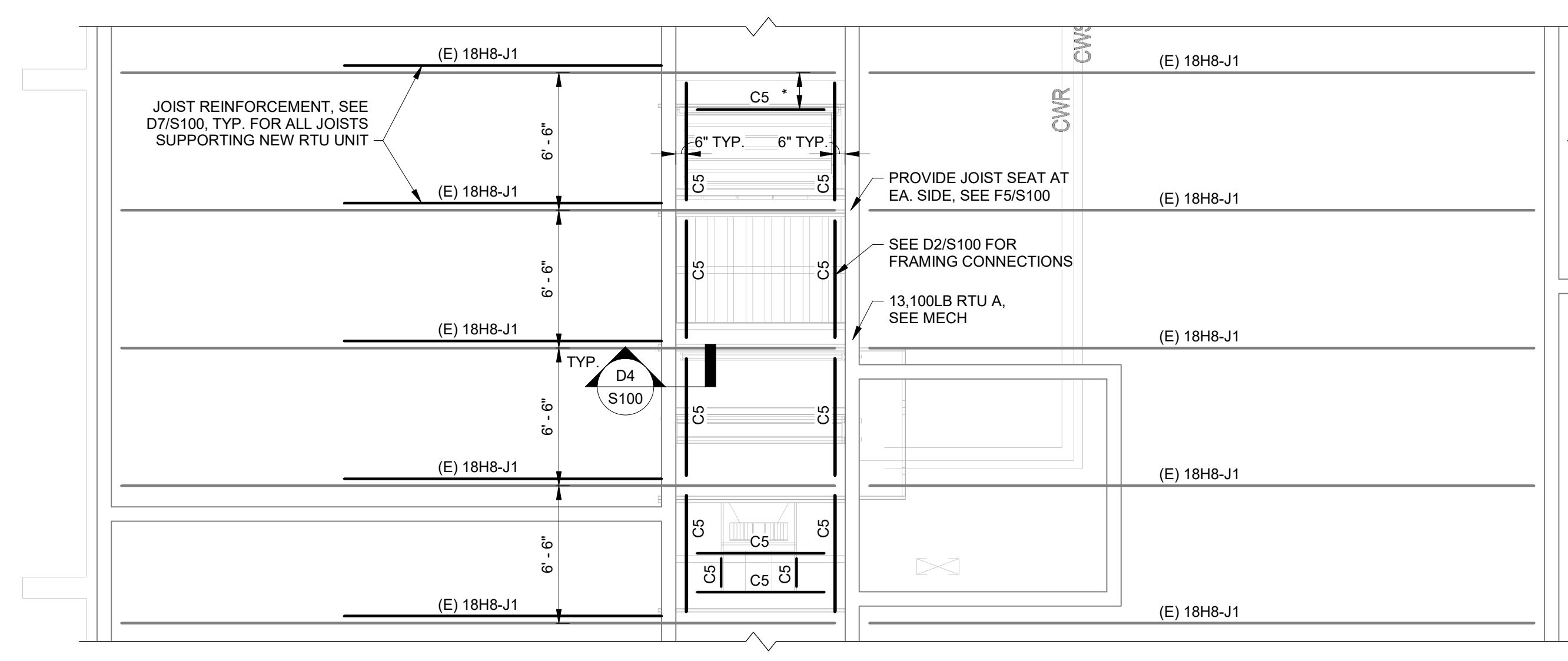
D5 JOIST STRUT DETAIL
S100 1" = 1'-0"



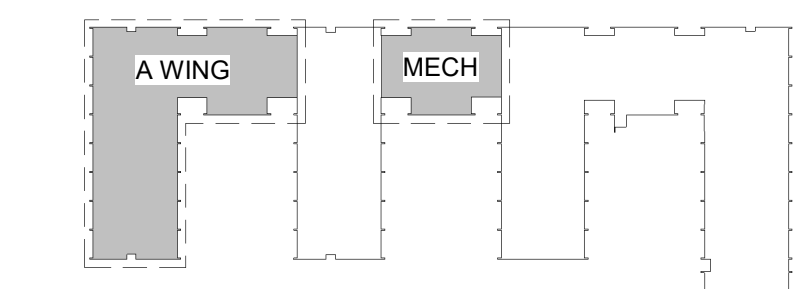
C4 PARTIAL ROOF FRAMING PLAN AT MECHANICAL ROOM
S100 1/16" = 1'-0"



A7 EXISTING A WING ROOF FRAMING PLAN
S100 1/16" = 1'-0"



A4 PARTIAL ROOF FRAMING PLAN AT NEW RTU
S100 3/16" = 1'-0"



A1 KEY PLAN
S100 1" = 160'-0"

- FRAMING NOTES:**
- REFERENCE DRAWING S001 FOR GENERAL NOTES AND DESIGN CRITERIA.
 - REF. HVAC DWGS FOR MECHANICAL ROOF-TOP UNITS. PROVIDE ADD'L C5 SUPPORT FRAMING AS REQ'D.
 - GC SHALL PROVIDE JOIST STRENGTHENING DTL D5 / S100 @ CONCENTRATED HANGING LOADS FROM JOIST.
 - GC TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL SLAB/ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.
 - GC TO AVOID LOCATING RTU NEAR 8" DEEP LINTELS AT TOP OF BEARING WALL
 - LOCATE JOIST STRUTS AT ANY CONNECTION OF NEW C5 TO AN EXISTING JOIST, SEE DETAIL C2/S100
 - MECHANICAL ROOM FRAMING TAKEN FROM EXISTING STRUCTURAL DRAWINGS, VERIFY EXISTING OPENINGS IN FIELD
 - MECHANICAL TO SHIFT NEW RTU LOCATION AS REQUIRED TO MAKE RTU EXHAUST AND RTU INTAKE AVOID EXISTING JOISTS.
 - 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"x2" TOP CHORD
- C5 = 5X6.7 CHANNEL
- L5 = L5X3X1/4" ANGLE

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 Brinack Road
 Spart, South Carolina 29303

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

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

Mechanical Systems List

Quantity System Type & Description

1 RTUA
 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: RTUA - 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's Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

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

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

GENERAL NOTES:

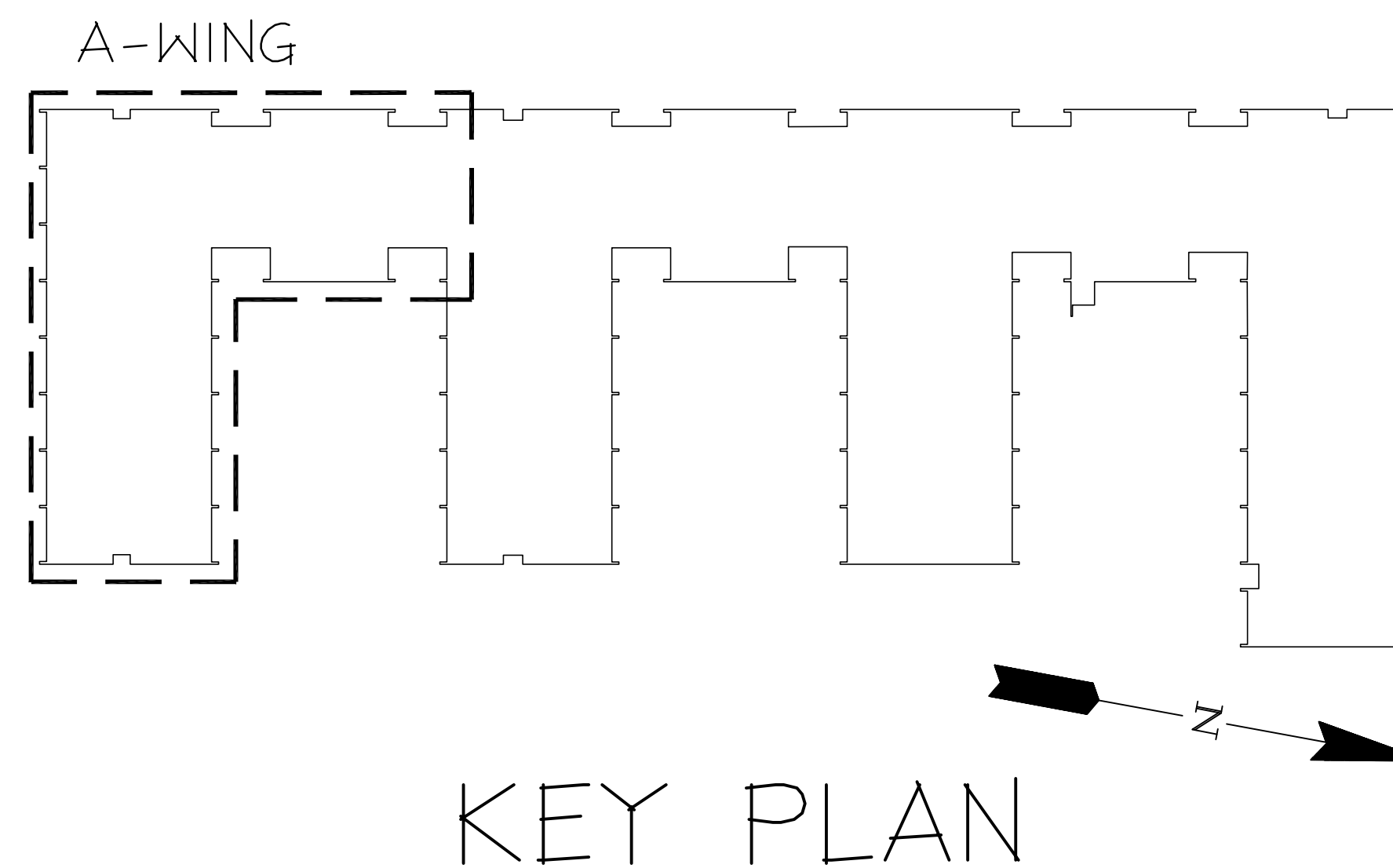
- FOR NEW TEMPERATURE SENSORS, HUMIDITY SENSORS, AND CARBON DIOXIDE SENSORS INSTALLED ON MASONRY WALLS, EXPOSED WIREMOLD CONDUIT AND WALL BOXES SHALL BE USED. SENSORS ON STUD WALLS SHALL BE INSTALLED WITH CONDUIT INSIDE THE WALL. (FIELD COORDINATE CUTTING & PATCHING OF DRYWALL WITH G.C.)
- PROVIDE ACCESS DOORS AT EACH MOTORIZED DAMPER AND EACH FIRE DAMPER NOT ACCESSIBLE FROM A GRILLE; SEE SPECS FOR SIZE.
- PIPE CONDENSATE DRAINS TO NEAREST FLOOR DRAIN, ROOF DRAIN, OR HUB DRAIN.
- PROVIDE 27" MIN CLEARANCE AT FILTER HOUSINGS FOR FILTER REMOVAL
- SLOPE ALL CONDENSATE LINES MIN. 1/8" PER FOOT.
- MINIMUM BRANCH CONDENSATE LINE SIZE SHALL BE 1" UNLESS NOTED OTHERWISE ON PLANS.
- MAXIMUM LENGTH OF FLEXIBLE DUCTWORK AT END OF BRANCH DUCTWORK SHALL BE 6'-0"
- 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

- M1000 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
- X- GATE VALVE
- |>- CHECK VALVE
- |X|- GLOBE VALVE
- |O|- BALL VALVE (2" AND SMALLER)
- |>|>- CONTROL VALVE
- |O|>- BUTTERFLY VALVE (2-1/2" AND LARGER)
- |>- REDUCER
- ||- UNION
- |I|- THERMOMETER WITH WELL
- |T|- THERMOSTAT
- |H|- HUMIDISTAT
- |C|- CO₂ SENSOR
- >- SUPPLY AIR (S.A.)
- >- RETURN AIR (R.A.)
- E->- EXHAUST AIR
- R->- RELIEF AIR
- AD- ACCESS DOOR
- FD- FIRE DAMPER
- V- VENT
- |>- STRAINER
- |T|- TEMP/PRESS SENSING PORT
- |M|- MOTORIZED DAMPER
- |T|- TRIPLE DUTY VALVE
- |C|- FLEXIBLE COUPLING
- |V|- MANUAL AIR VENT
- |A|- AUTOMATIC AIR VENT
- |A|- AUTO FLOW VALVE
- |DP|- DIFFERENTIAL PRESS. SENSOR
- |SP|- STATIC PRESSURE SENSOR
- FO- FLAT OVAL
- O/H- OVERHEAD
- VD- VOLUME DAMPER
- CO- CLEAN OUT
- |X|- DUAL WALL SPIRAL DUCTWORK
- |X|- DUCTWORK WITH SOUND TREATMENT WRAP (SEE SPECIFICATIONS.)
- - - - TWO HOUR FIRE BARRIER
- - - - FOUR HOUR FIRE WALL

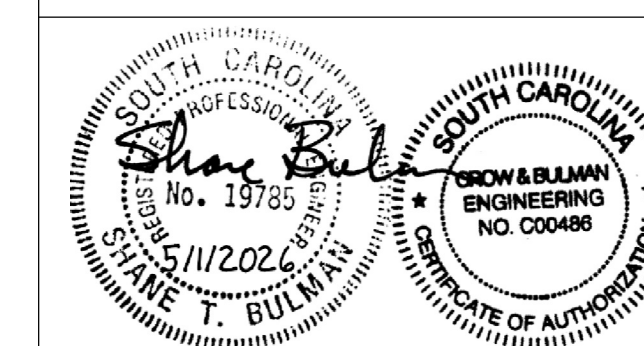


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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
 H59-6353-JM

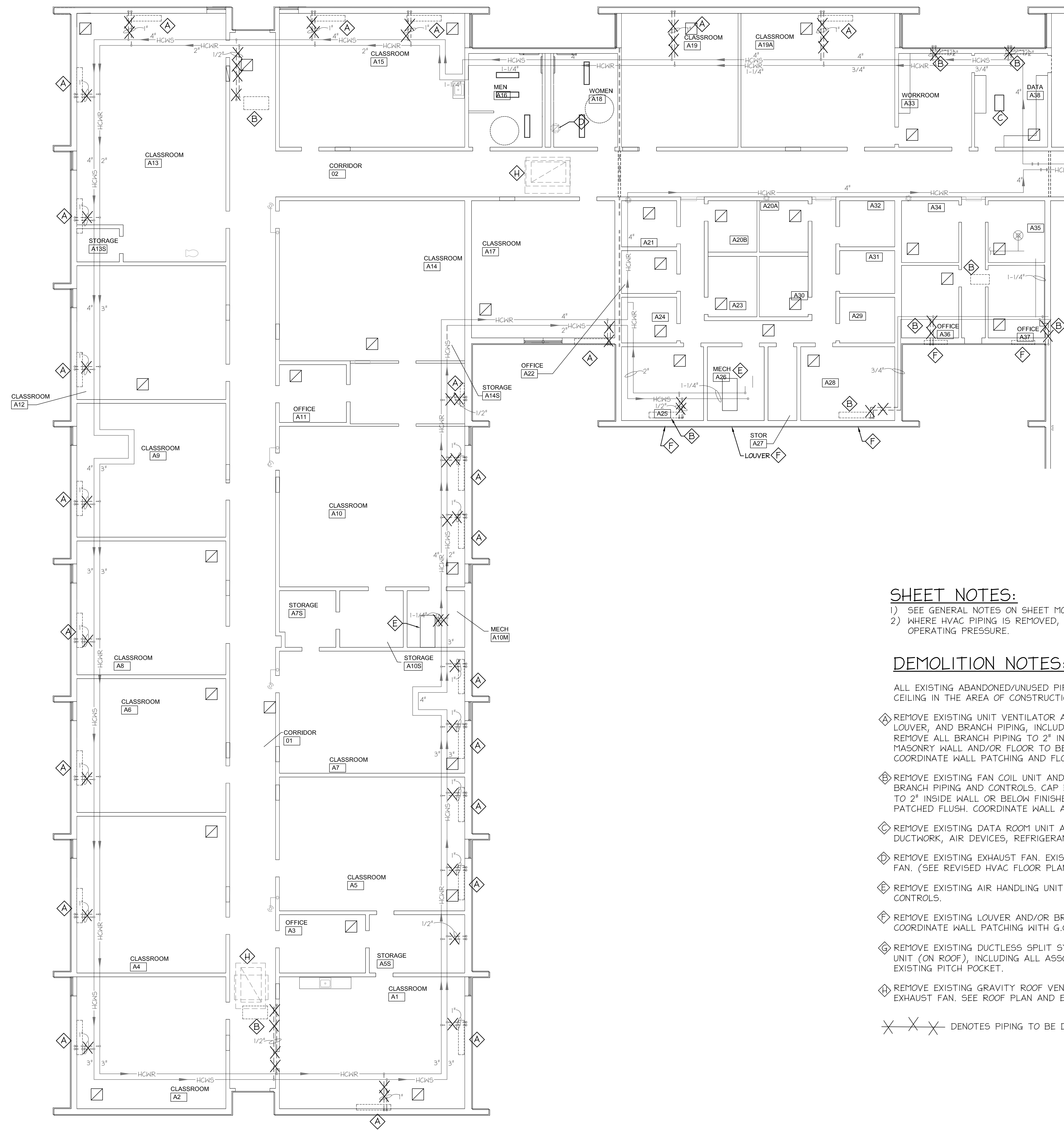
131 COMMUNITY COLLEGE DRIVE
 SPARTANBURG, SC

MARK	DATE	DESCRIPTION
△	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



HVAC DEMOLITION FLOOR PLAN

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

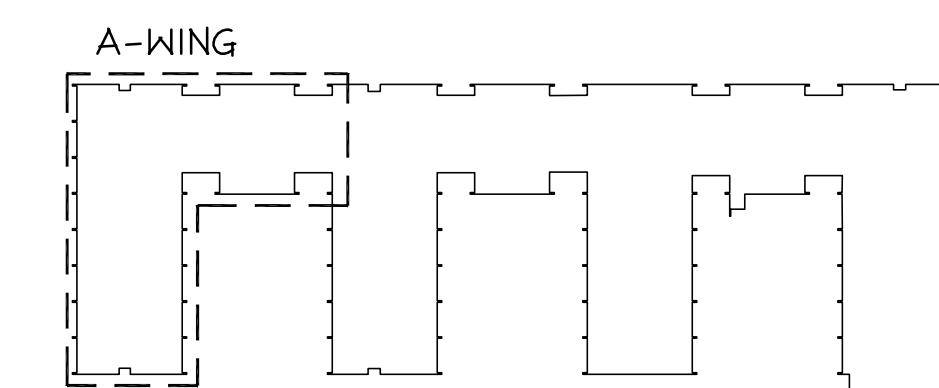
SHEET NOTES:

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

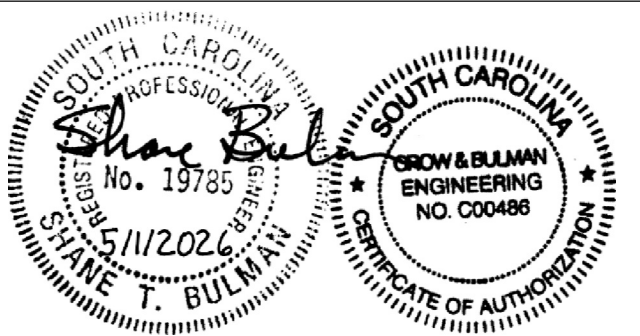
DEMOLITION NOTES:

- 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.
- ⊠ 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.
 - ⊠ 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.
 - ⊠ REMOVE EXISTING DATA ROOM UNIT ABOVE CEILING, INCLUDING ALL ASSOCIATED CONTROLS, DUCTWORK, AIR DEVICES, REFRIGERANT PIPING, AND DRAIN PIPING.
 - ⊠ REMOVE EXISTING EXHAUST FAN. EXISTING ROOF CURB TO BE RE-USED WITH NEW EXHAUST FAN. (SEE REVISED HVAC FLOOR PLAN AND ROOF PLAN.)
 - ⊠ REMOVE EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, AND CONTROLS.
 - ⊠ REMOVE EXISTING LOUVER AND/OR BRICK VENT AND ALL ASSOCIATED DUCTWORK. COORDINATE WALL PATCHING WITH G.C.
 - ⊠ REMOVE EXISTING DUCTLESS SPLIT SYSTEM INDOOR UNIT (WALL MOUNTED) & CONDENSING UNIT (ON ROOF), INCLUDING ALL ASSOCIATED CONTROLS, WIRING, AND ACCESSORIES. CAP EXISTING PITCH POCKET.
 - ⊠ 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



KEY PLAN



CONSULTANT



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100 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9965, WWW.CRENGR.COM

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
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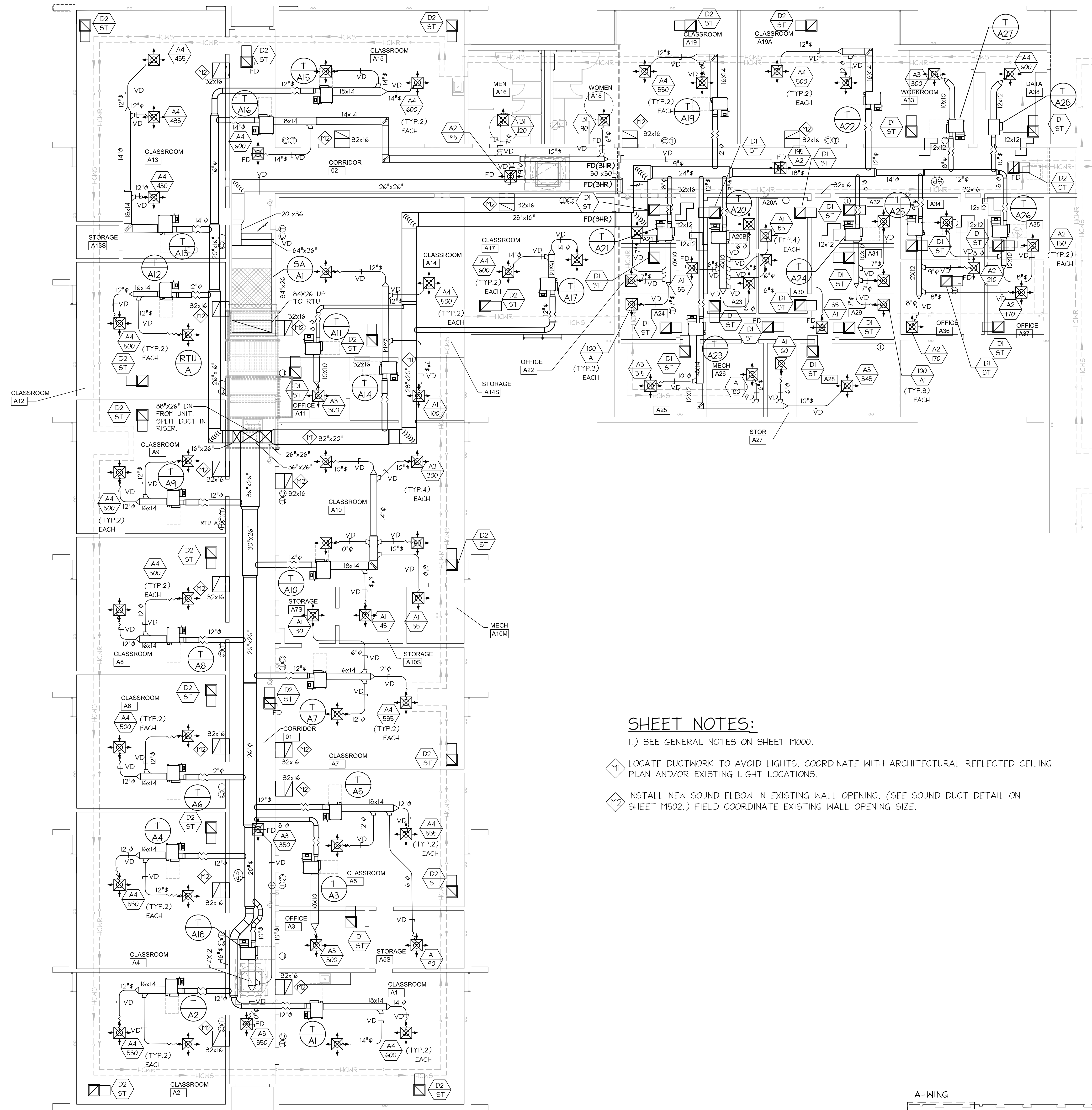
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
△	5/28/2026	OSE COMMENTS

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

HVAC DEMOLITION PLAN

MD101

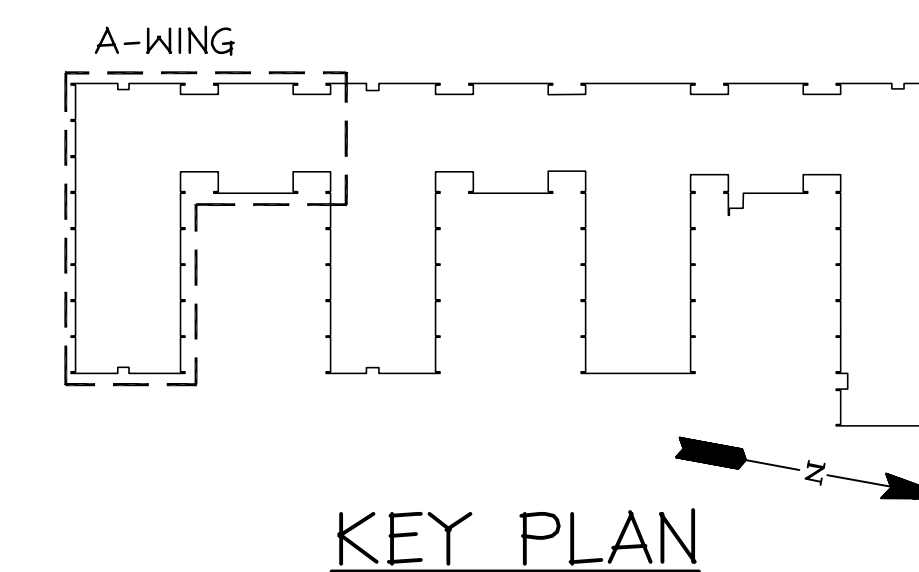


HVAC FLOOR PLAN

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

SHEET NOTES:

- 1.) SEE GENERAL NOTES ON SHEET M100.
- (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.

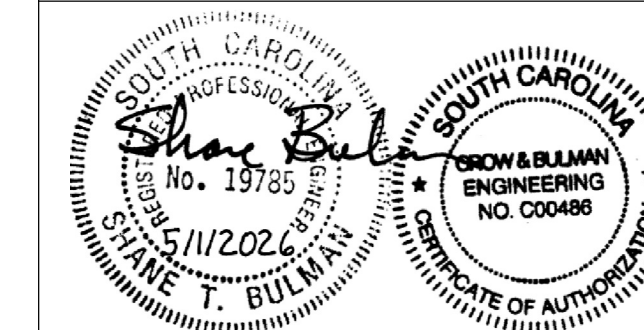


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ALTERATIONS & ADDITIONS

**POWERS BUILDING
A-WING**

OSE PROJECT NO.
H59-6353-JM

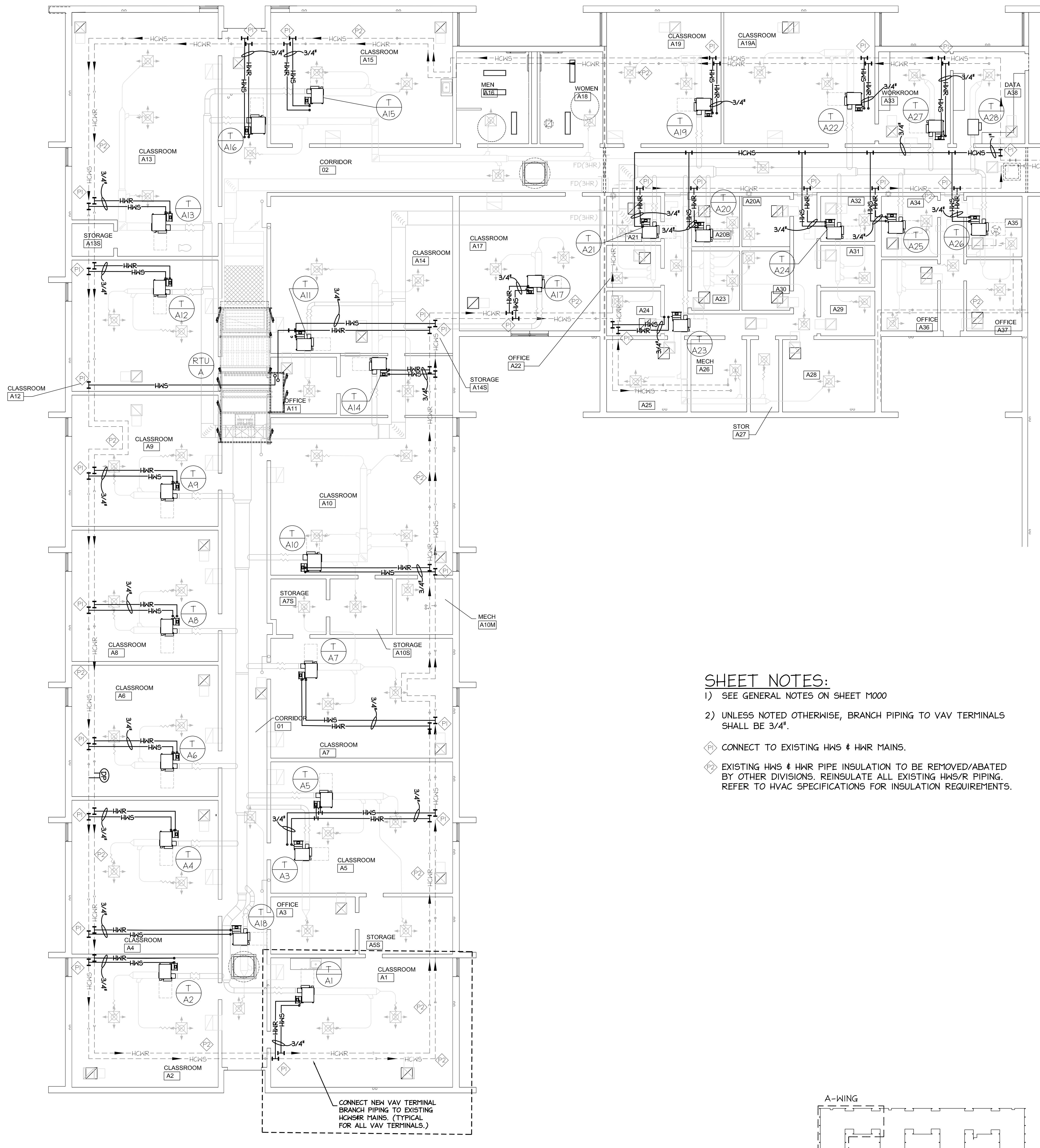
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
△	5/28/2026	OSE COMMENTS

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

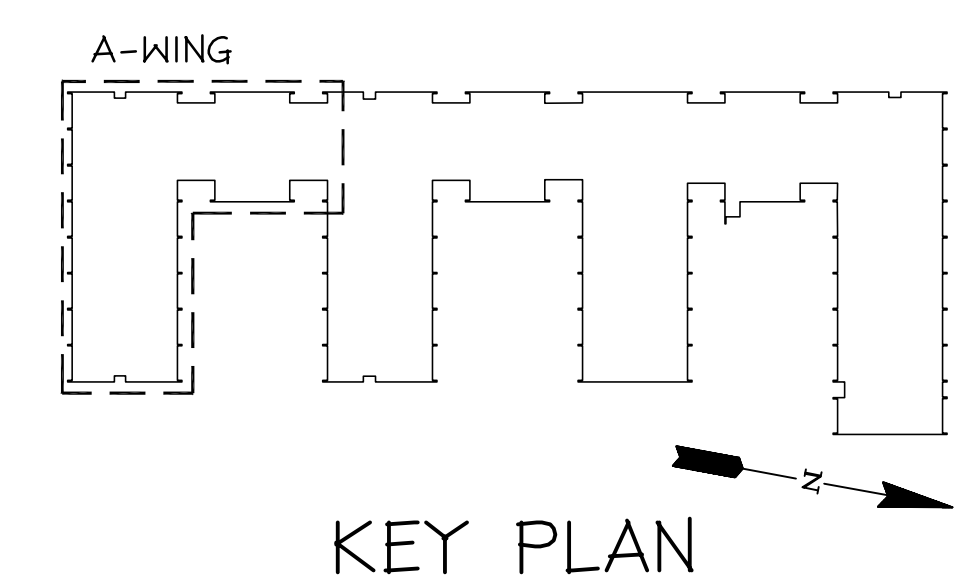
HVAC FLOOR PLAN

M101



HVAC PIPING PLAN

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



SHEET NOTES:

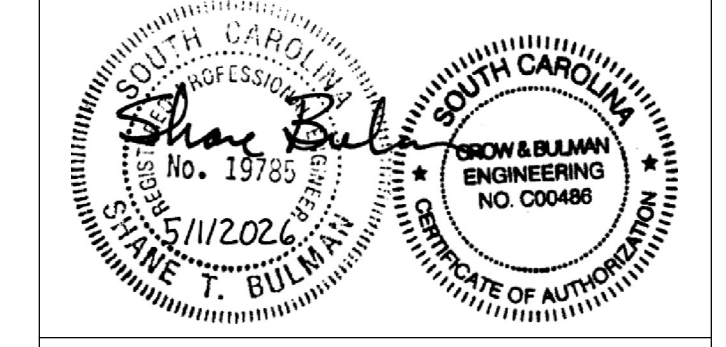
- 1) SEE GENERAL NOTES ON SHEET M000
 - 2) UNLESS NOTED OTHERWISE, BRANCH PIPING TO VAV TERMINALS SHALL BE 3/4".
- CONNECT TO EXISTING HWS & HWR MAINS.
 EXISTING HWS & HWR PIPE INSULATION TO BE REMOVED/ABATED BY OTHER DIVISIONS. REINSULATE ALL EXISTING HWS/R PIPING. REFER TO HVAC SPECIFICATIONS FOR INSULATION REQUIREMENTS.

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CROW & BULMAN ENGINEERING, INC.
100 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9900, WWW.CHENG.COM

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

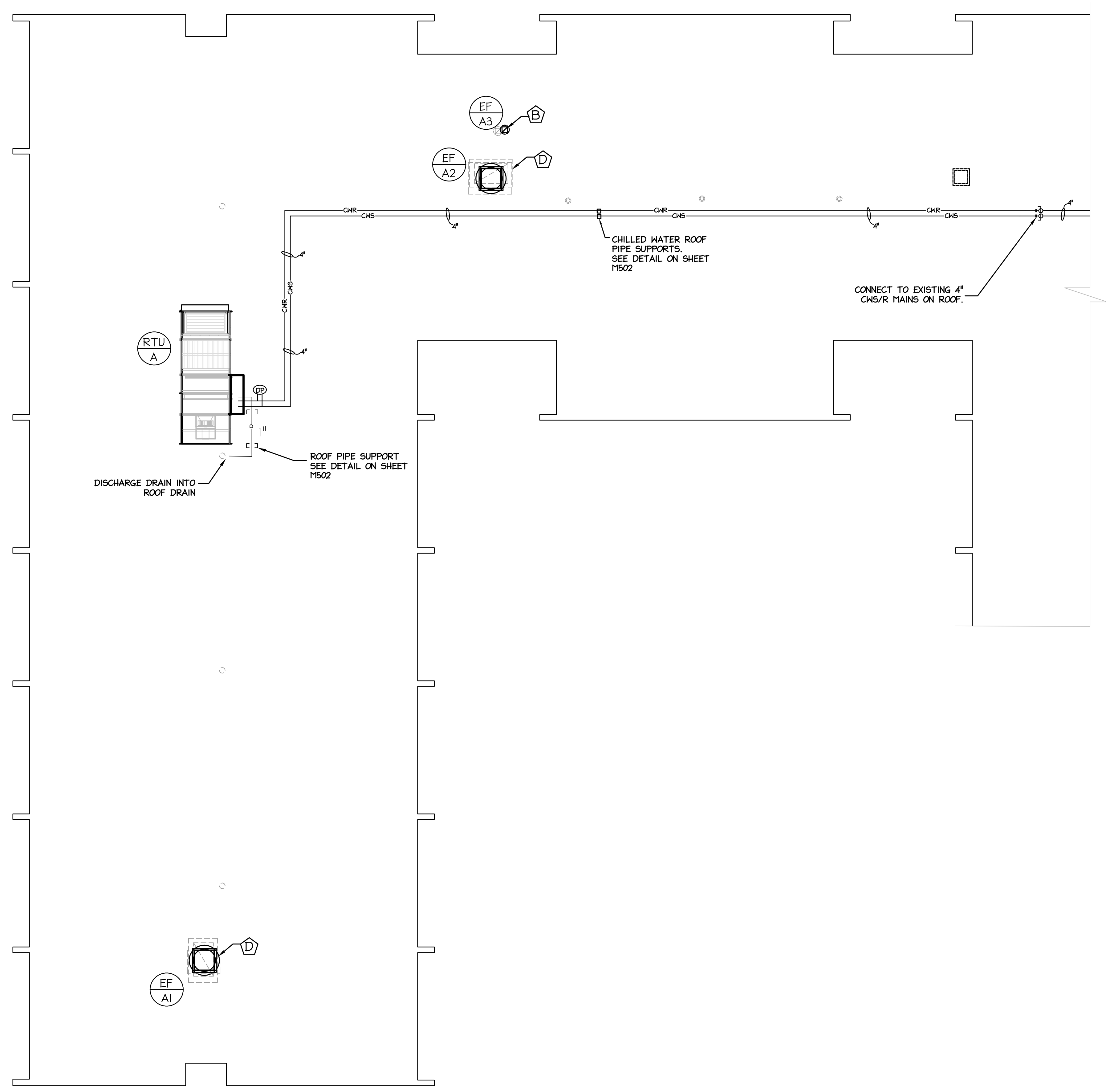
131 COMMUNITY COLLEGE DRIVE
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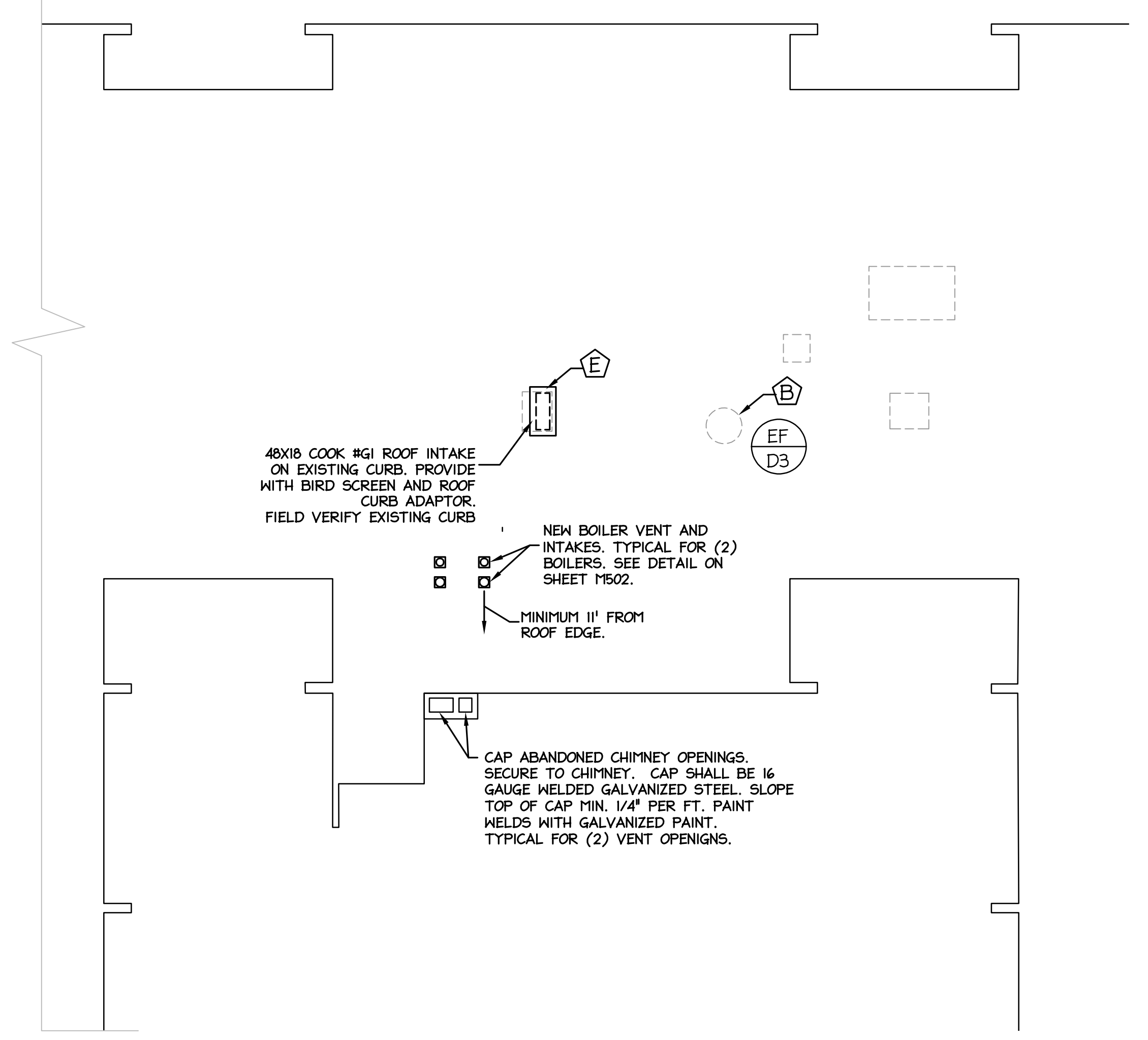
HVAC PIPING PLAN

M201



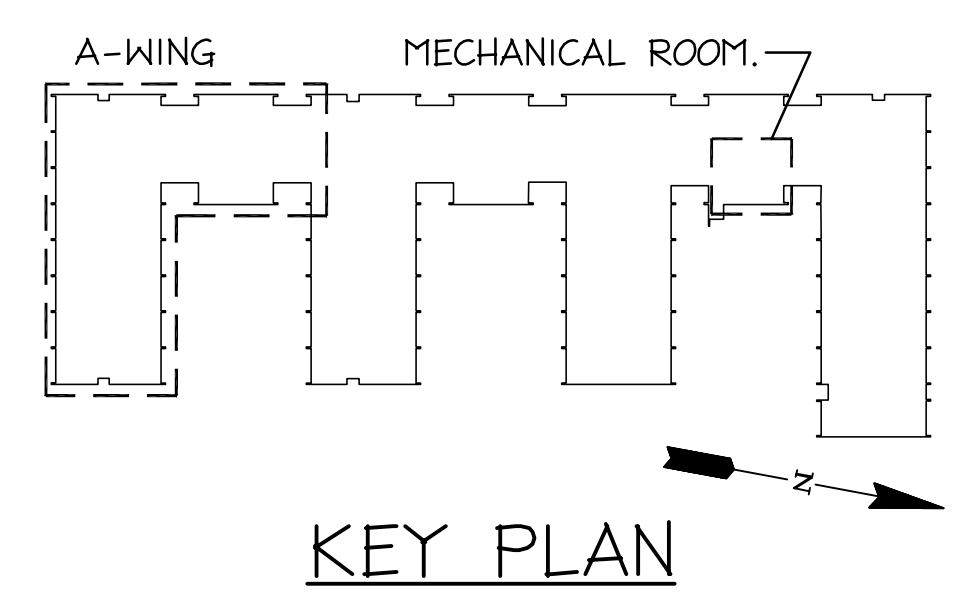
HVAC ROOF PLAN - A WING

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'

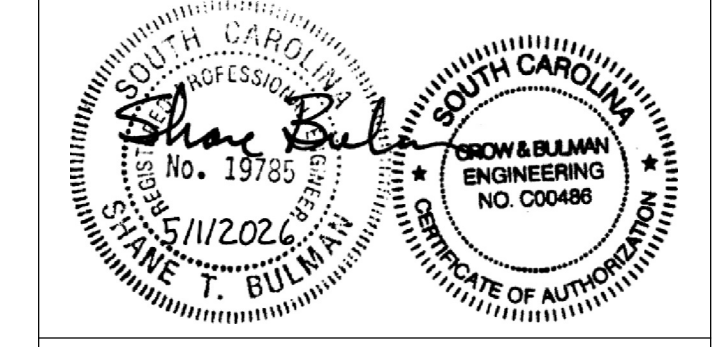


SHEET NOTES:

- 1) SEE GENERAL NOTES ON SHEET M000.

ROOF DEMOLITION NOTES:

- Ⓐ 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.
- Ⓑ REMOVE EXISTING EXHAUST FAN. EXISTING ROOF CURB TO BE RE-USED WITH NEW EXHAUST FAN. (SEE REVISED HVAC FLOOR PLAN AND ROOF PLAN.)
- Ⓒ 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.
- Ⓓ REMOVE EXISTING GRAVITY ROOF VENT. EXISTING ROOF CURB TO BE REUSED WITH NEW EXHAUST FAN. SEE ROOF PLAN AND EXHAUST FAN SCHEDULE
- Ⓔ 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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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

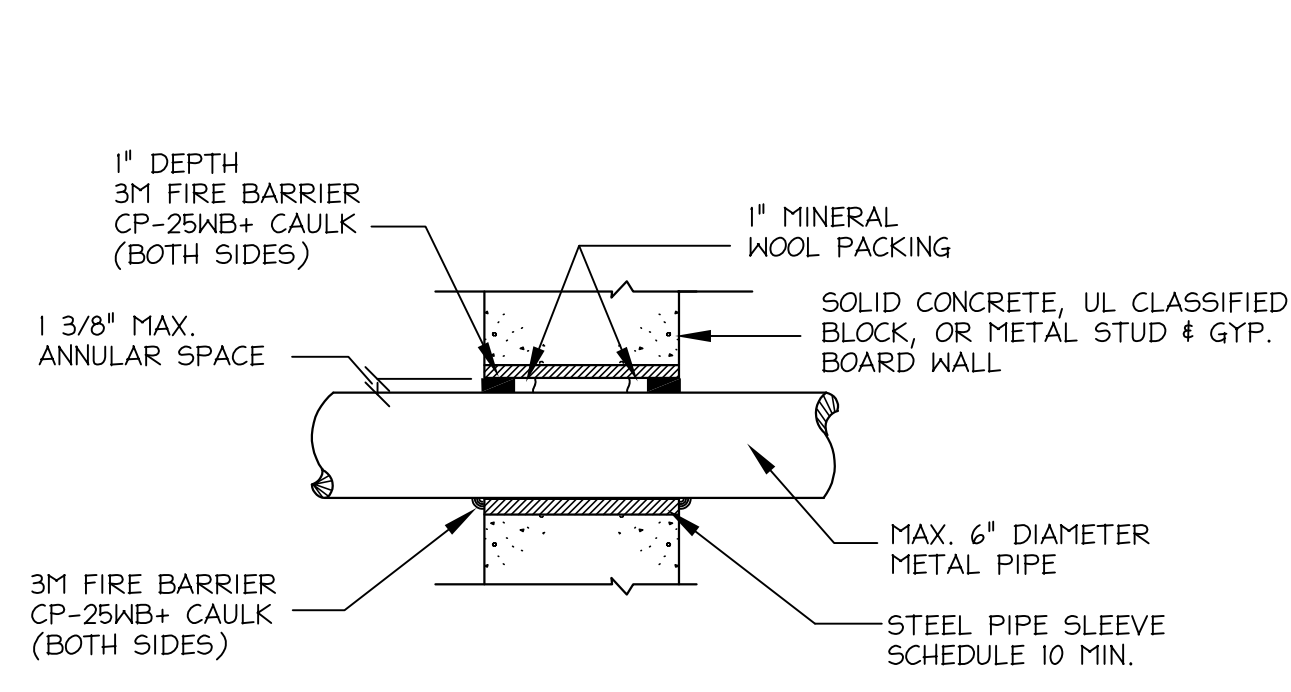
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

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HVAC ROOF PLAN

M401

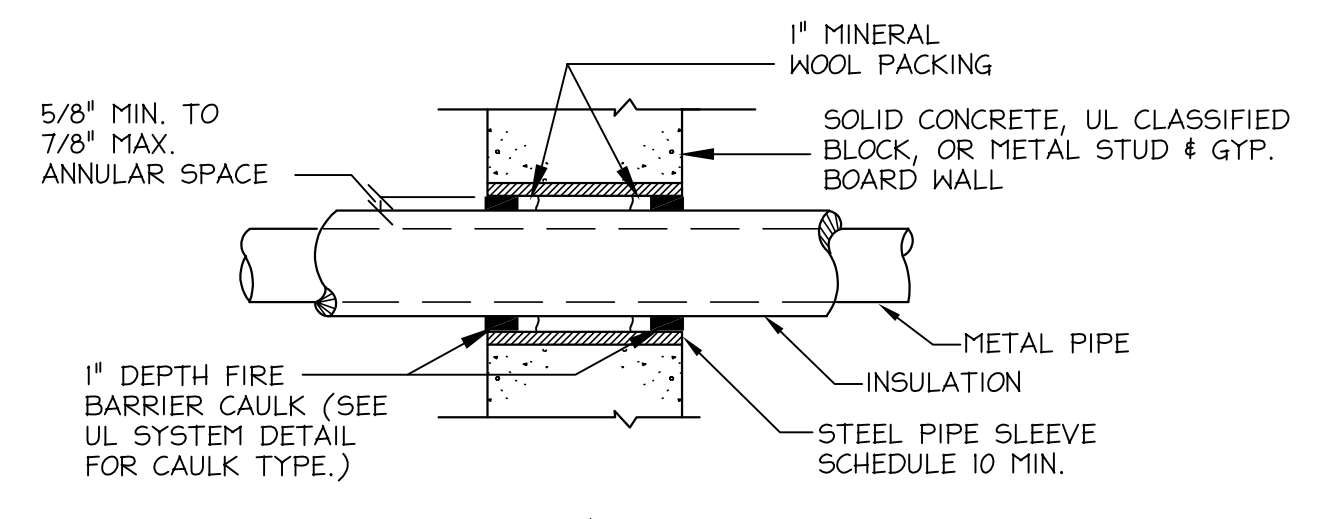


APPLICATION DETAILS

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-25HB+ CAULK.

UNINSULATED PIPE (1, 2, 3, OR 4 HR)
(UL SYSTEM #CAJ044)

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



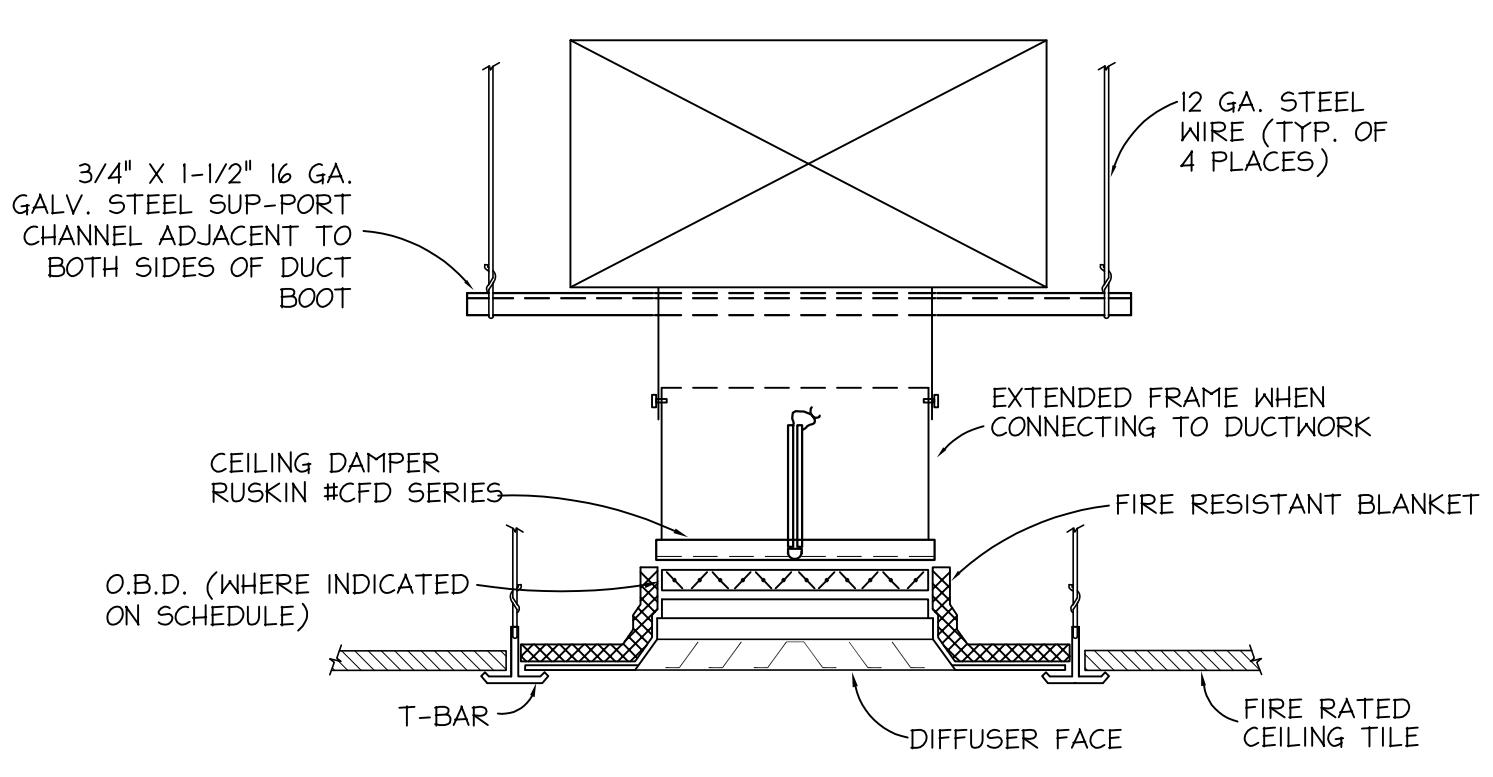
APPLICATION DETAILS

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 FIBERGLASS 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 #CBJ502)

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

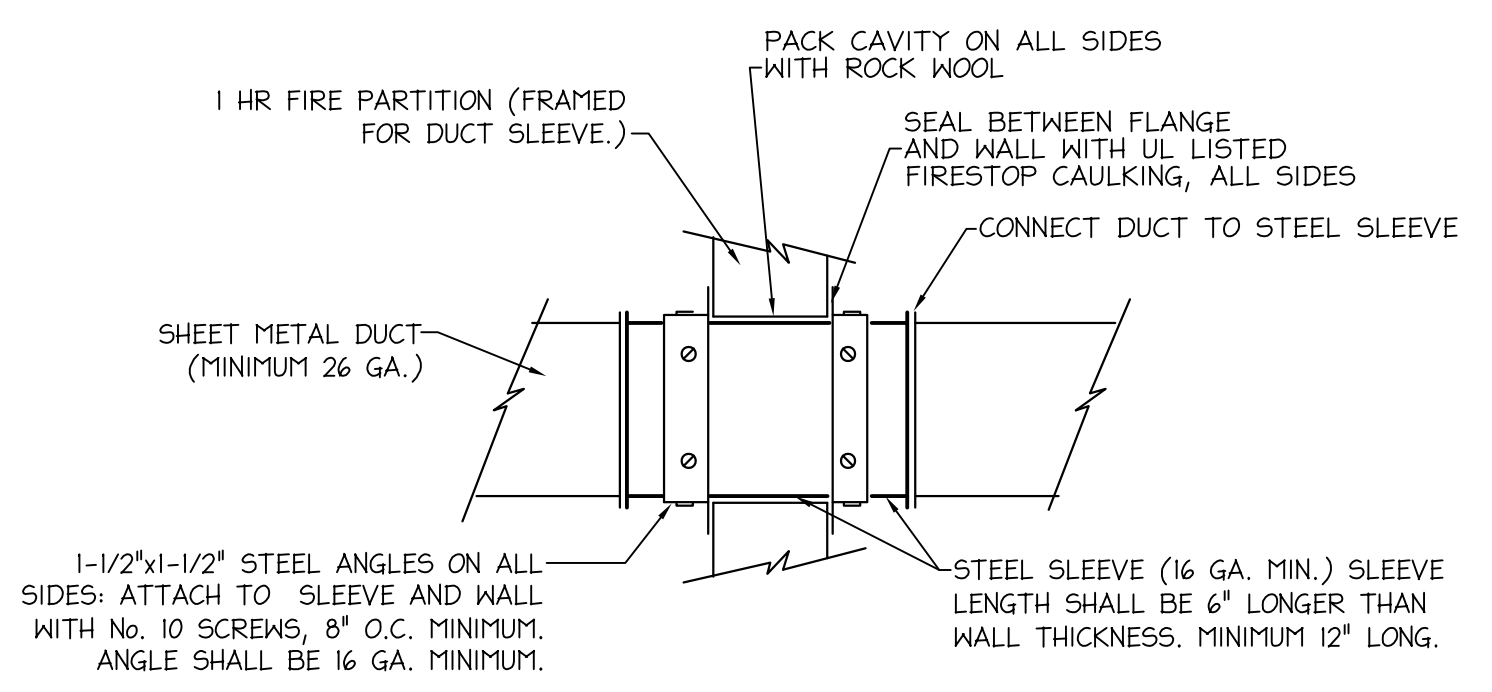


NOTES:

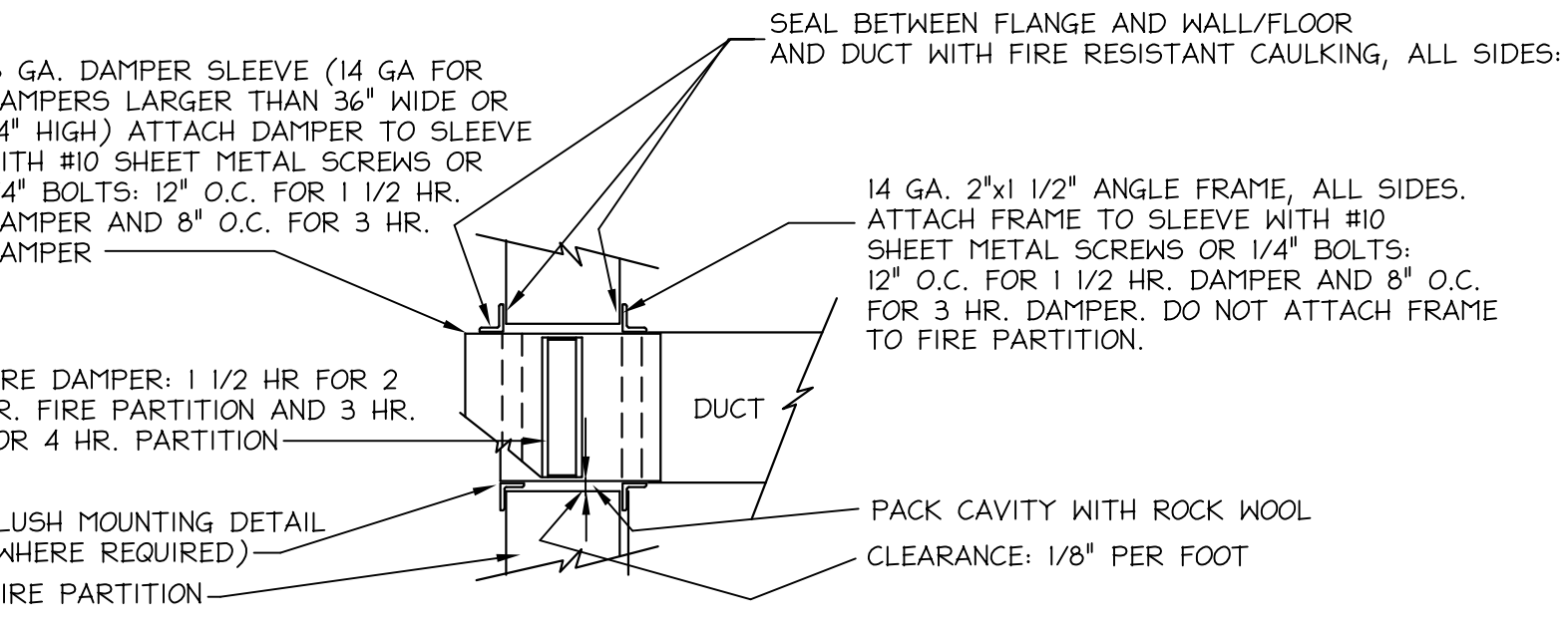
- 1) CEILING DAMPERS SHALL MEET THE REQUIREMENTS FOR INSTALLATION IN A UP-PS29 CEILING ASSEMBLY.
- 2) DAMPER LEAF SHALL BE 16 GA MINIMUM GALVANIZED STEEL WITH CERAMIC-FIBER PAPER LAMINATED ON BOTH SIDES AND OVERLAP THE DUCT OPENING BY 2" MINIMUM ON ALL SIDES.
- 3) WHERE DAMPER IS INSTALLED IN INSULATED DUCT, WRAP DUCT DROP WITH 3/4" PFG 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



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

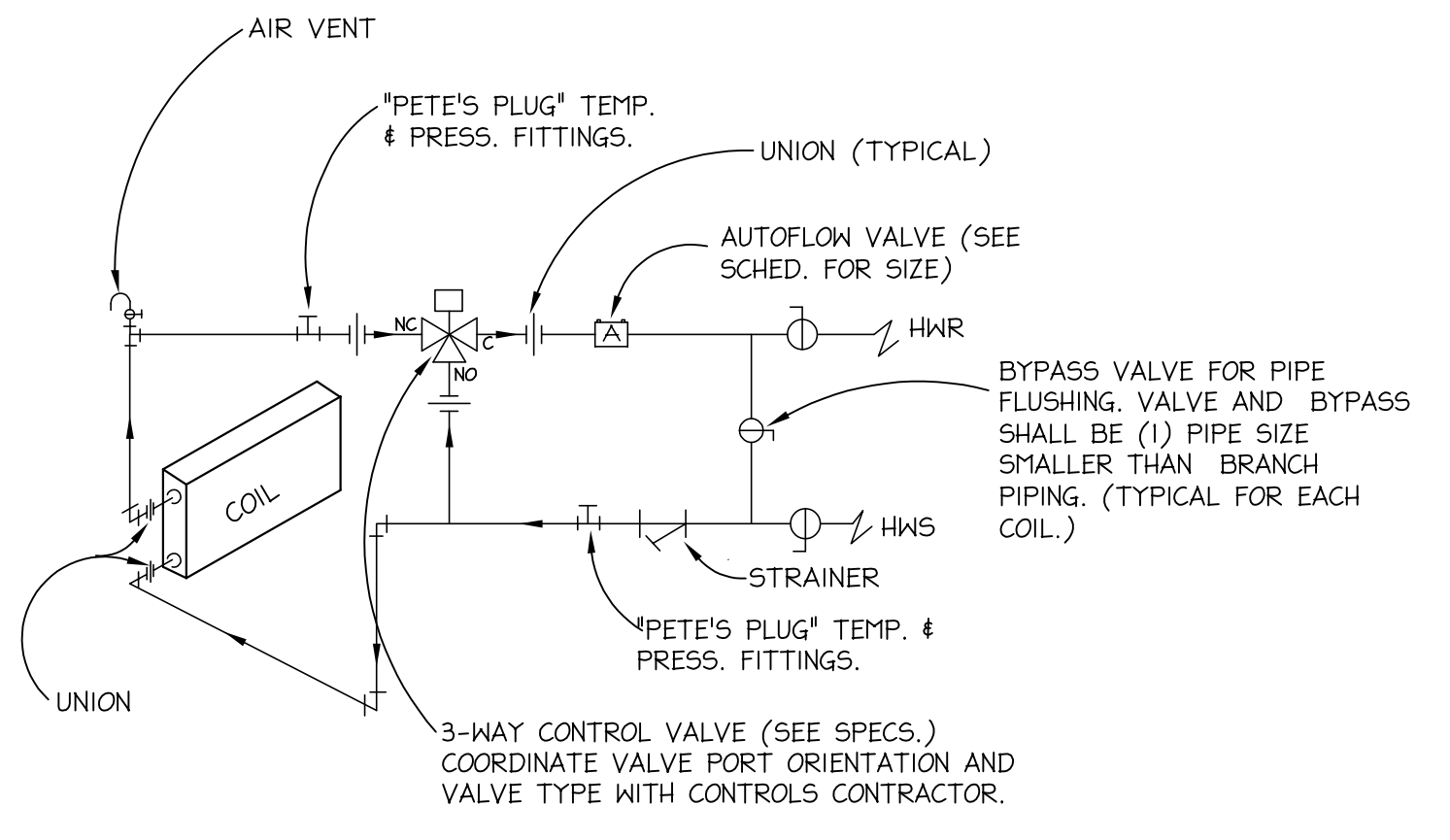


FIRE DAMPER INSTALLATION DETAIL
APPLIES TO FIRE WALL, FIRE BARRIER, OR FIRE PARTITION.

(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 MANUFACTURER'S RECOMMENDATIONS FOR ADDITIONAL DETAIL.
- 3) ALTERNATE INSTALLATION DETAILS SHALL BE ACCEPTABLE IF SHOWN TO BE IN COMPLIANCE WITH NFPA 90A & IFC'S LISTING.
- 4) FOR INSULATED DUCTS: WRAP EXPOSED PORTION OF SLEEVE WITH 2" THICK, 3/4 PFG DENSITY FIBERGLASS INSULATION WITH FOIL FACING, STAPLE AND SEAL WITH FABRIC AND MASTIC.
- 5) ACCESS DOOR WHERE REQUIRED, SEE SPECIFICATIONS.

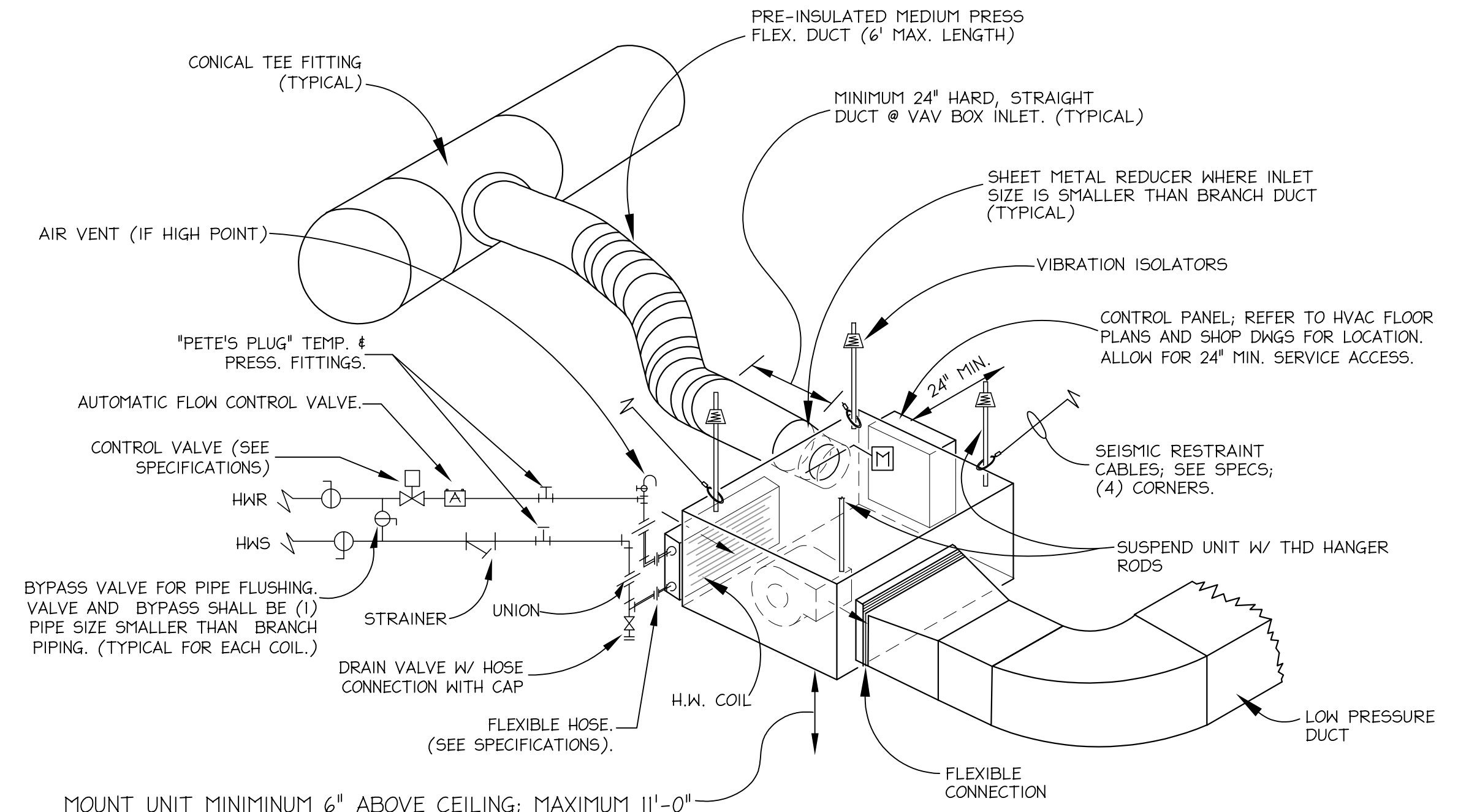


3-WAY VALVES (VAV BOXES)
NO SCALE

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

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 CONTRACTOR'S 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.



MOUNT UNIT MINIMUM 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

SOUND ATTENUATOR SCHEDULE

TAG	UNIT SERVED	CFM	VELOCITY (FPM)	SIZE (INCH)	SIZE (L)	SHAPE	AIRFLOW DIRECTION	ΔP IN W.G.	ΔP SYS. EFFECTS IN W.G.	DYNAMIC INSERTION LOSS (db 10 ⁻¹² MATTS) @ -2000 FPM								MFR. # MODEL	REMARKS	
										63Hz	125Hz	250Hz	500Hz	1K Hz	2K Hz	4K Hz	8K Hz			
SA-AI	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 WITH ASTM E477-20
 - FIELD COORDINATE SILENCER DIMENSIONS PRIOR TO PLACING ORDER.

PUMP SCHEDULE

TAG	SERVICE	GPM	FT. HD.	TYPE	MOTOR HP	ELECT.	REMI	MFR. # MODEL	TRIPLE DUTY VALVE	REMARKS	
									PATTERN	SIZE	CV
P-1	H.W. DIST.	295	4	---	---	---	---	EXISTING	---	---	---
P-2	H.W. DIST. (STAND-BY)	295	4	---	---	---	---	EXISTING	---	---	---
P-3	C.W. DIST.	655	4	---	---	---	---	EXISTING	---	---	---
P-4	C.W. DIST. (STAND-BY)	655	4	---	---	---	---	EXISTING	---	---	---
P-5	BOILER PUMP	---	---	---	---	---	---	DELETED	---	---	---
P-6	BOILER PUMP	265	40	CENTRIFUGAL IN-LINE	5	460/3	1800	B # G SERIES 80 4x47B	STRAIGHT	4"	215
P-7	BOILER PUMP	265	40	CENTRIFUGAL IN-LINE	5	460/3	1800	B # G SERIES 80 4x47B	STRAIGHT	4"	215

- REMARKS / ACCESSORIES:**
- Ⓐ MODIFY PUMP SPEED AND/OR BALANCING VALVE TO ACHIEVE UPDATED GPM.
 - Ⓛ FURNISH WITH VARIABLE SPEED DRIVE

BOILER SCHEDULE

TAGS	MHP INPUT	MHP 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.

- SUBSTITUTES**
- LOCHVARN "CREST"
 - PATTERSON KELLY "STORM"

ELECTRIC HEATER SCHEDULE

TAGS	GPM	FAN RPM	KVA	VOLT	MOUNTING	MFR. # MODEL	REMARKS
EH-1	400	1550	5	277	WALL MOUNTED	MARKEL MODEL 5100	Ⓛ Ⓜ Ⓝ

- Ⓛ DISCONNECT
- Ⓜ CONTROL RELAY (PROVIDED BY CONTROLS CONTRACTOR)
- Ⓝ 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.

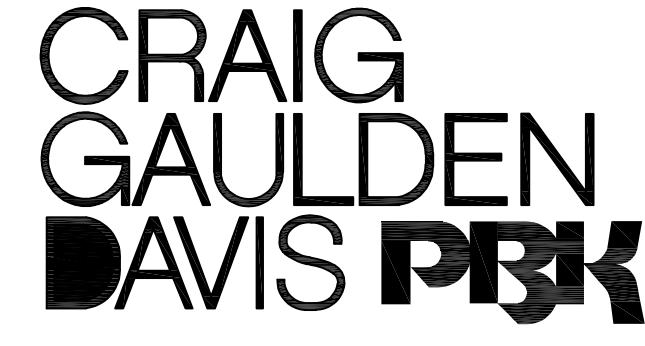
REMARKS: A. PROVIDE 24"x24" PLASTER FRAME

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	Ⓛ Ⓜ Ⓝ Ⓞ Ⓟ Ⓠ Ⓡ Ⓢ Ⓣ
EF-A2	BUILDING RELIEF	9,000	0.5	2 HP	BELT	460/3	420	10.2	60	ROOF	COOK 365TLC-B	Ⓛ Ⓜ Ⓝ Ⓞ Ⓟ Ⓠ Ⓡ Ⓢ Ⓣ
EF-A3	TOILET EXHAUST	750	0.5	1/4 HP	DIRECT	115/1	1692	10.2	61	ROOF	COOK 101C7D	Ⓛ Ⓜ Ⓝ Ⓞ Ⓟ Ⓠ Ⓡ Ⓢ Ⓣ
EF-D3	MECHANICAL ROOM	11,700	0.5	2 HP	BELT	460/3	379	11.5	61	ROOF	COOK 402CB	Ⓛ Ⓜ Ⓝ Ⓞ Ⓟ Ⓠ Ⓡ Ⓢ Ⓣ

REMARKS / ACCESSORIES:

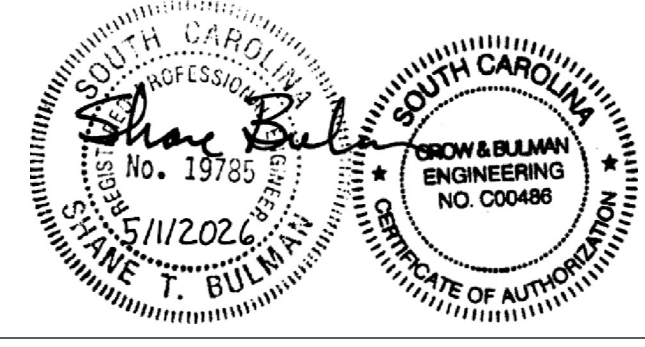
- Ⓛ DISCONNECT SWITCH
- Ⓜ BACKDRAFT DAMPER
- Ⓝ BIRDSCREEN
- Ⓞ MOTOR STARTER
- Ⓟ VARIABLE FREQUENCY DRIVE
- Ⓠ THERMOSTAT BY CONTROLS
- Ⓡ 18" HIGH ACOUSTIC ROOF CURB EXTENSION W/ REMOVABLE SOUND Baffles.
- Ⓢ EC MOTOR
- Ⓣ ROOF CURB ADAPTOR: FIELD COORDINATE DIMENSION OF EXISTING ROOF CURB. PROVIDE WIND RESTRAINTS STRAPS/CABLES TO SECURE NEW FAN (AND ROOF CURB EXTENSION TO STRUCTURAL STEEL.)
- Ⓛ LOW LEAKAGE DAMPERS. (SEE SPECIFICATIONS FOR DAMPER LEAKAGE RATES.)
- Ⓜ HINGED FAN BASE
- Ⓝ PROVIDE ROOF CURB ADAPTOR WITH MOUNTING FRAME & BRACKET TO MOUNT VARIABLE FREQUENCY DRIVE.
- Ⓞ AIRFLOW MONITORING STATION. (EBTRON GTX116-P.) PROVIDED BY CONTROLS



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CONSULTANT



131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

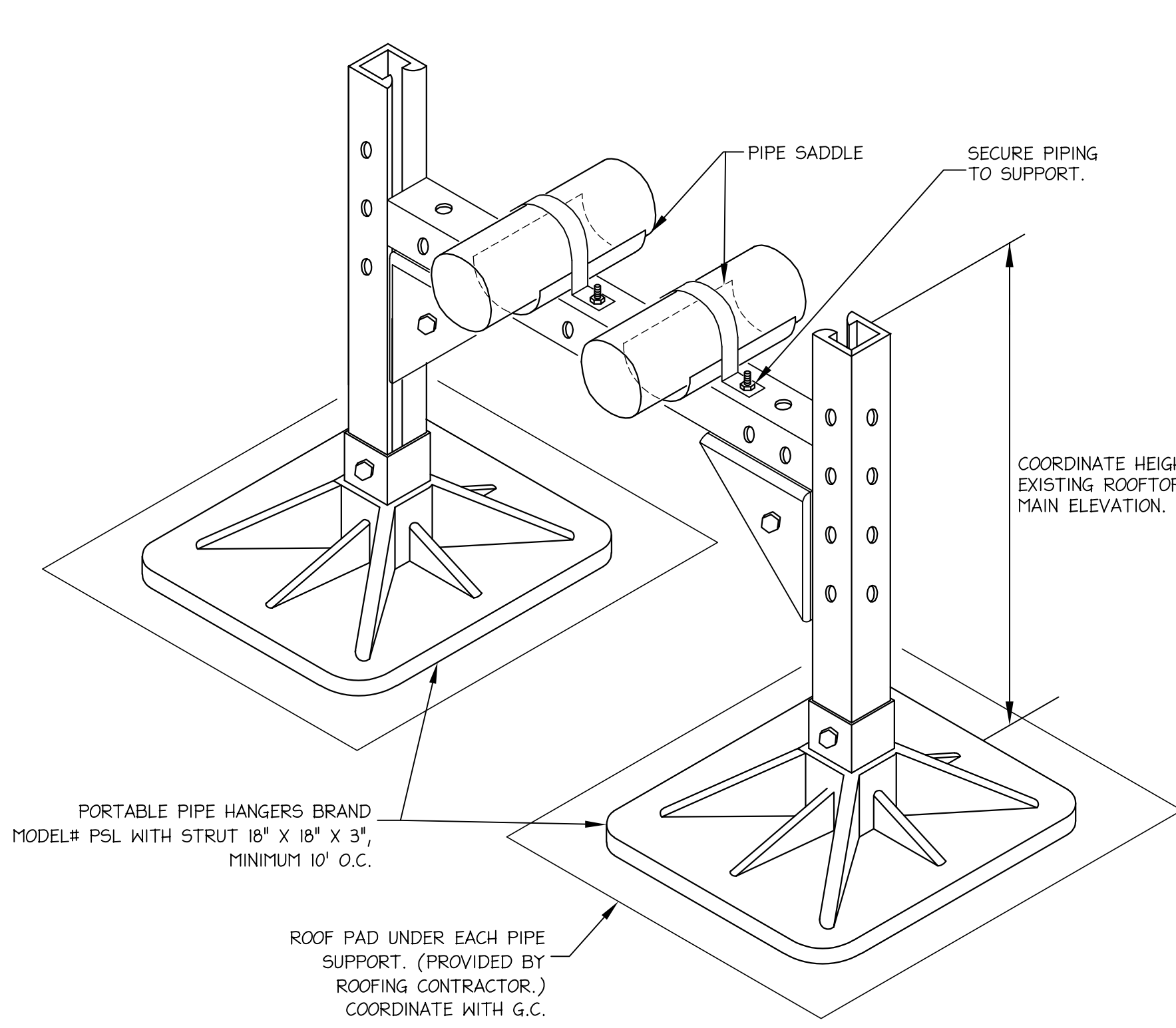
131 COMMUNITY COLLEGE DRIVE
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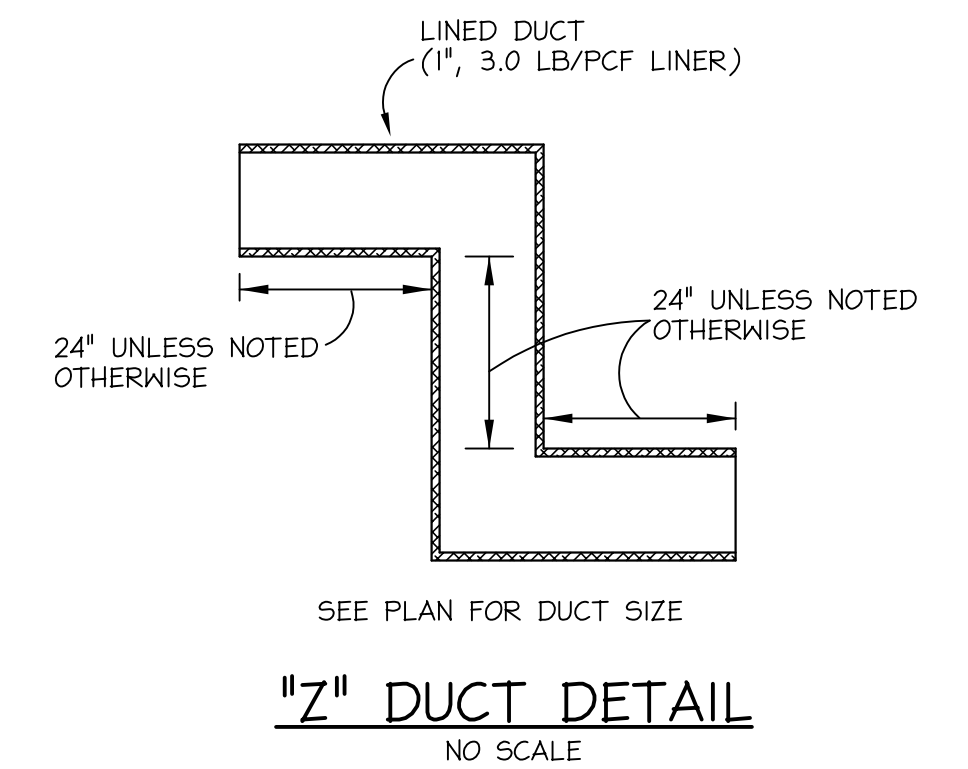
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HVAC SCHEDULES & DETAILS

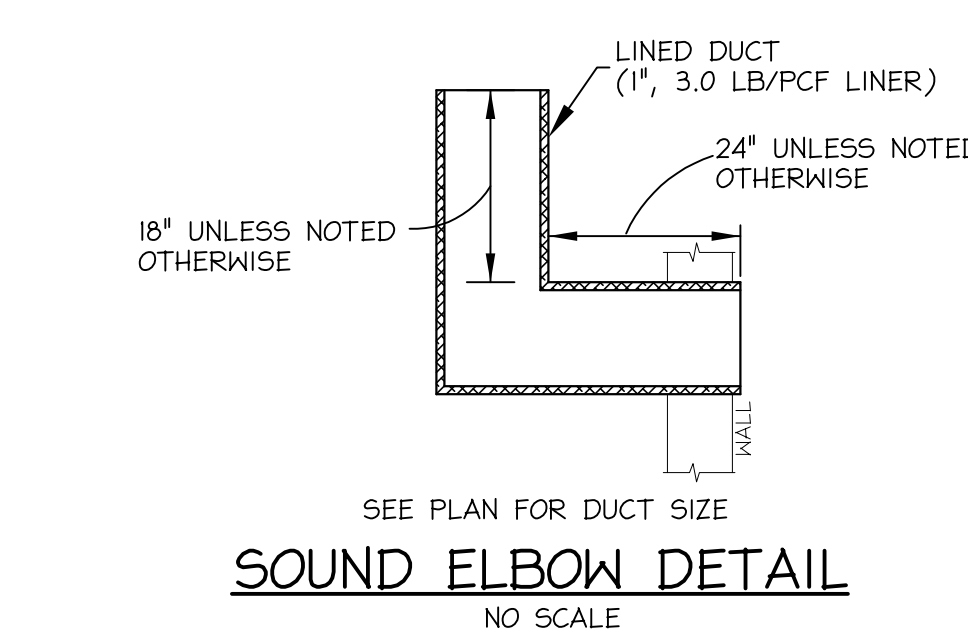
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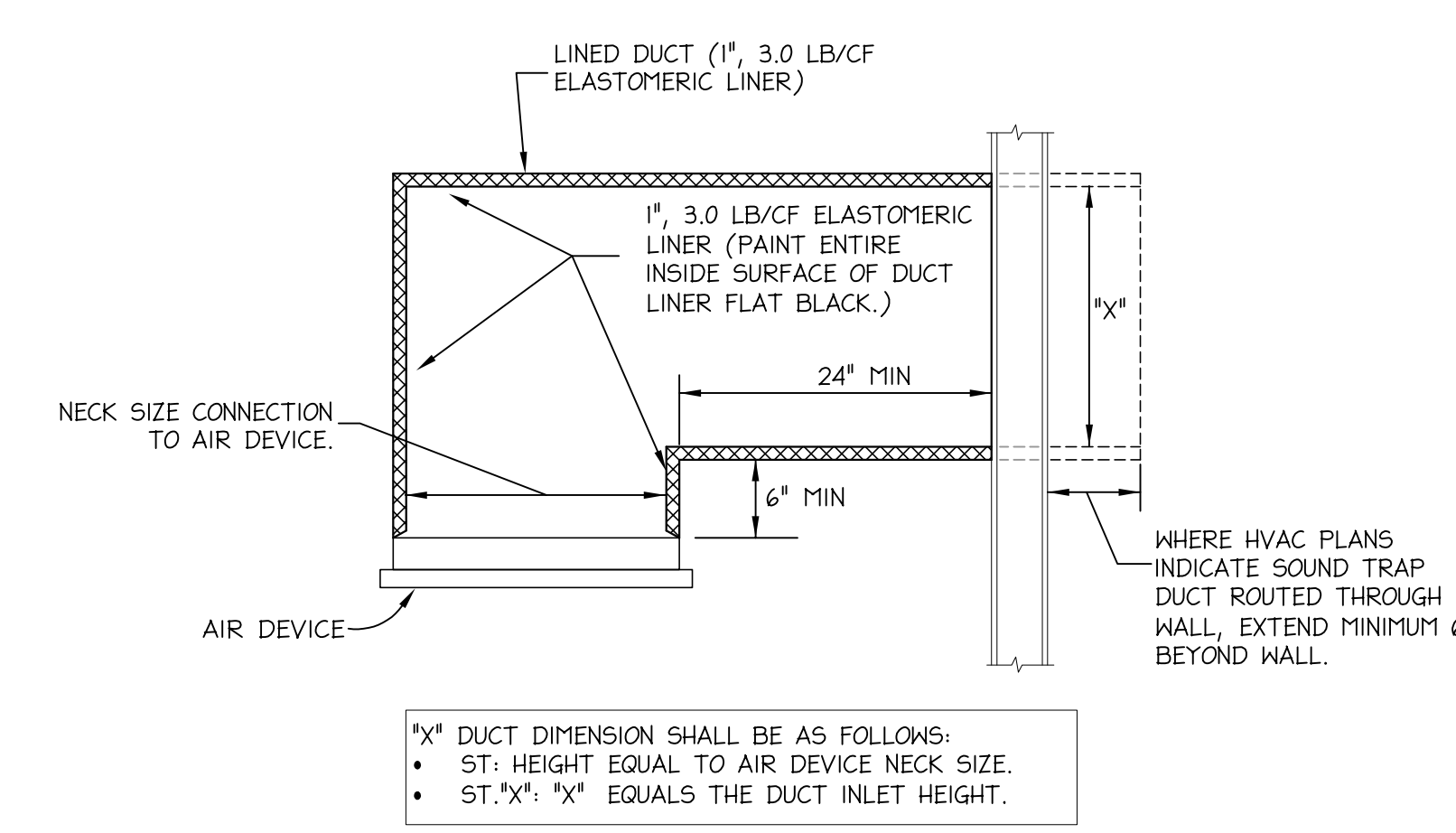
CHILLED WATER ROOF PIPE SUPPORT DETAIL
NO SCALE



1\"/>



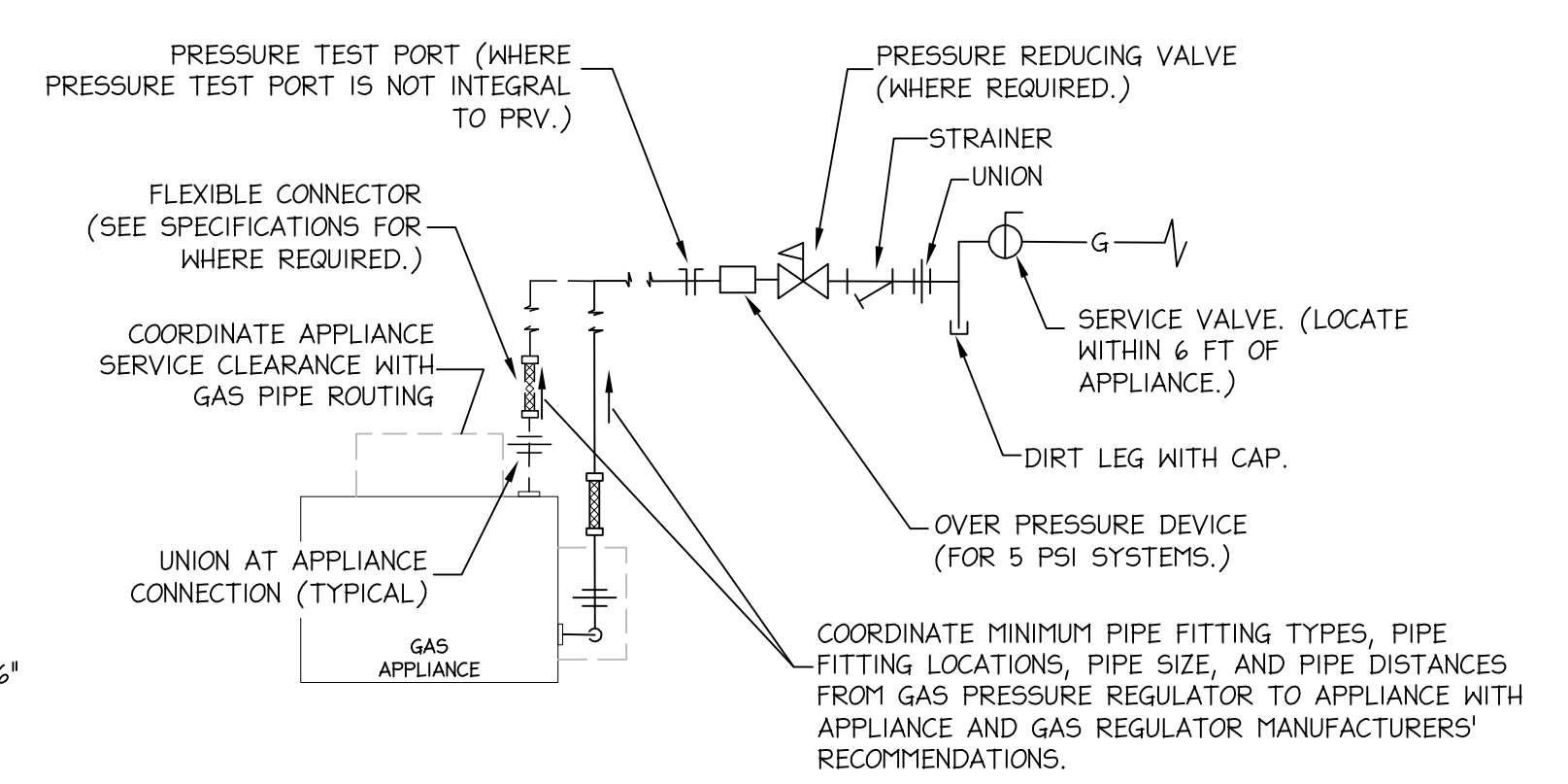
SOUND ELBOW DETAIL
NO SCALE



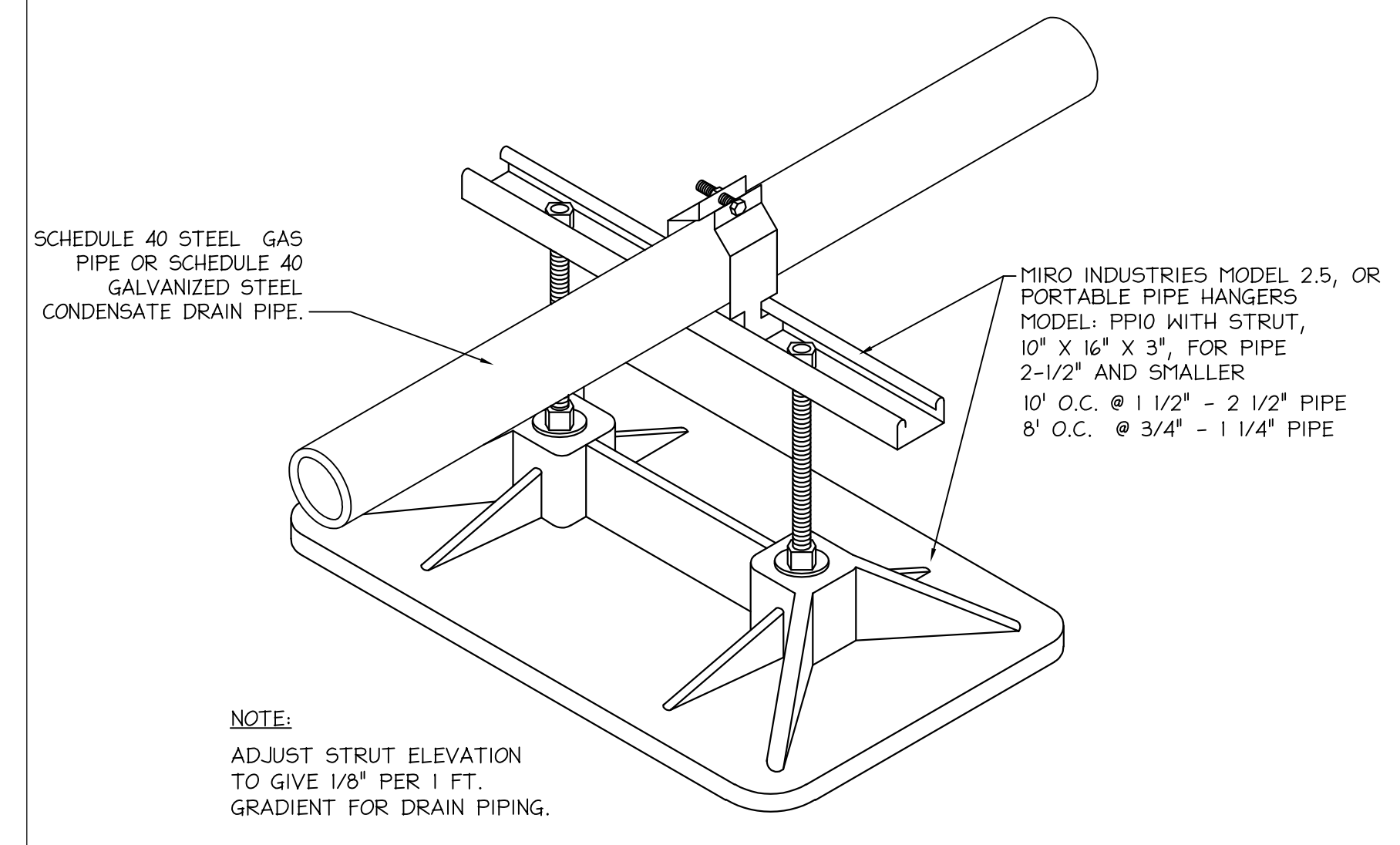
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TYPICAL FOR ALL AIR DEVICES OPENING TO THE CEILING PLENUM. INSTALL WITH INLET DIRECTION AWAY FROM EQUIPMENT ABOVE CEILING.

SOUND TRAP DETAIL
NO SCALE

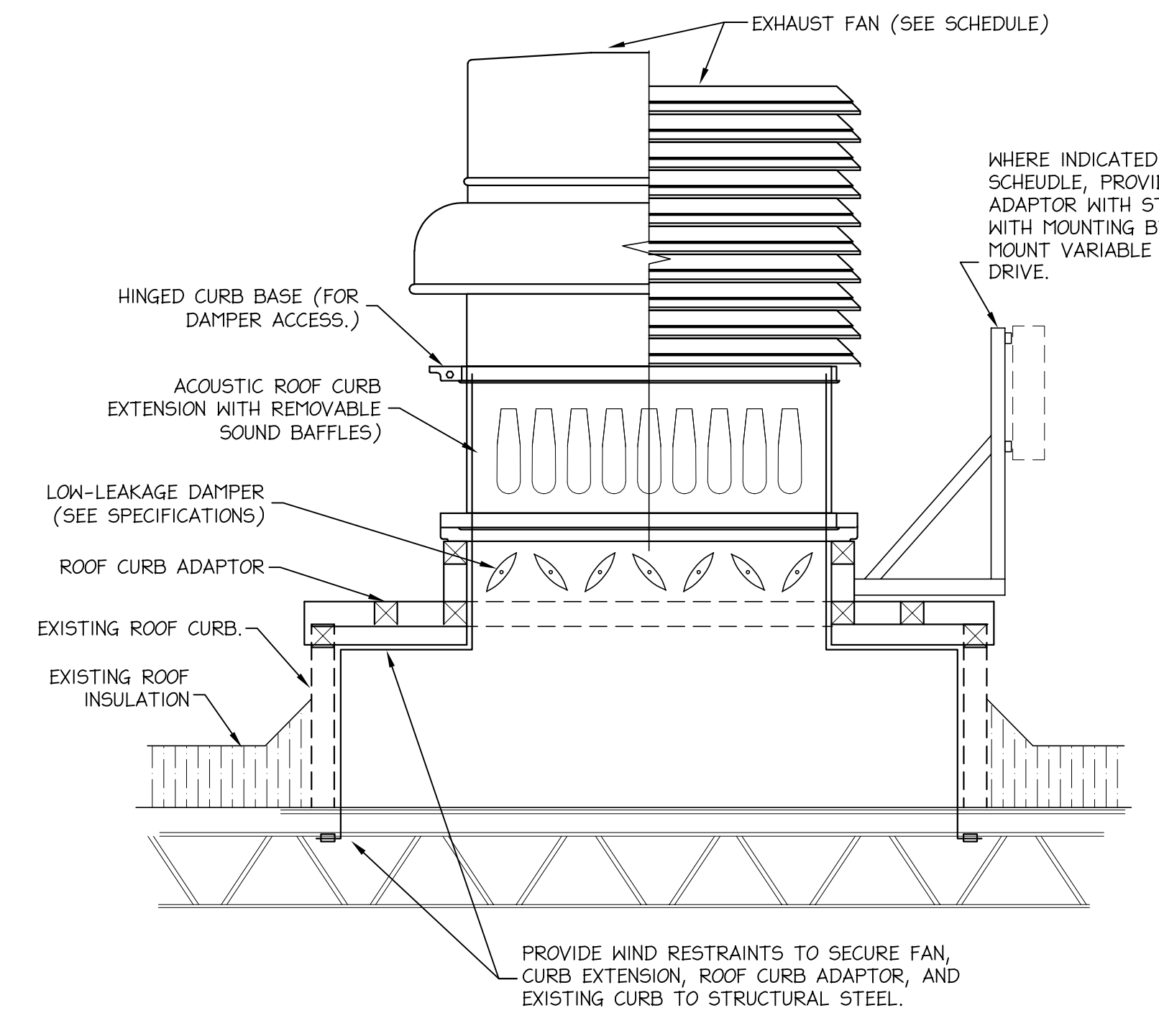


GAS APPLIANCE TRIM DETAIL
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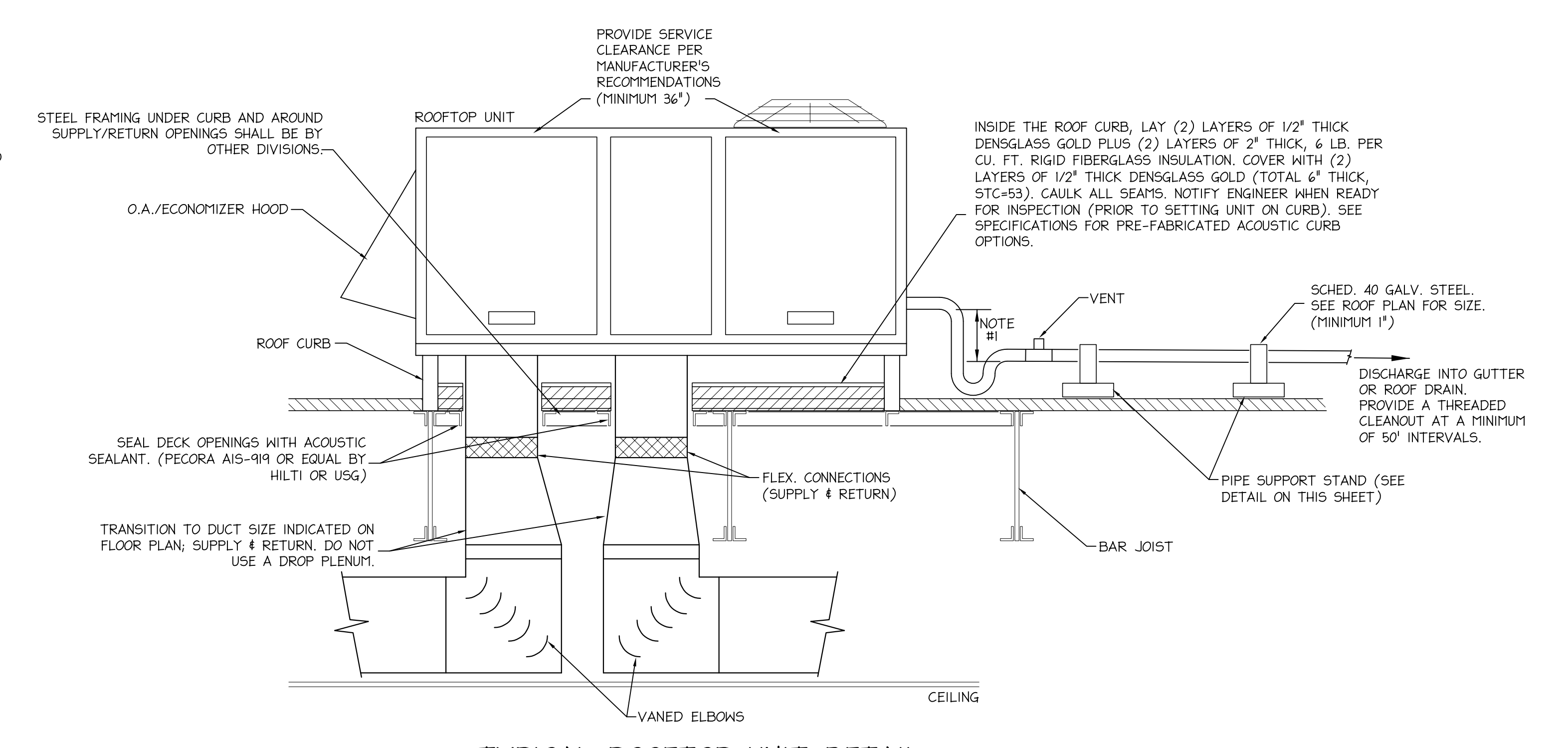


NOTE:
ADJUST STRUT ELEVATION TO GIVE 1/8\"/>

ROOF PIPE SUPPORT DETAIL
NO SCALE

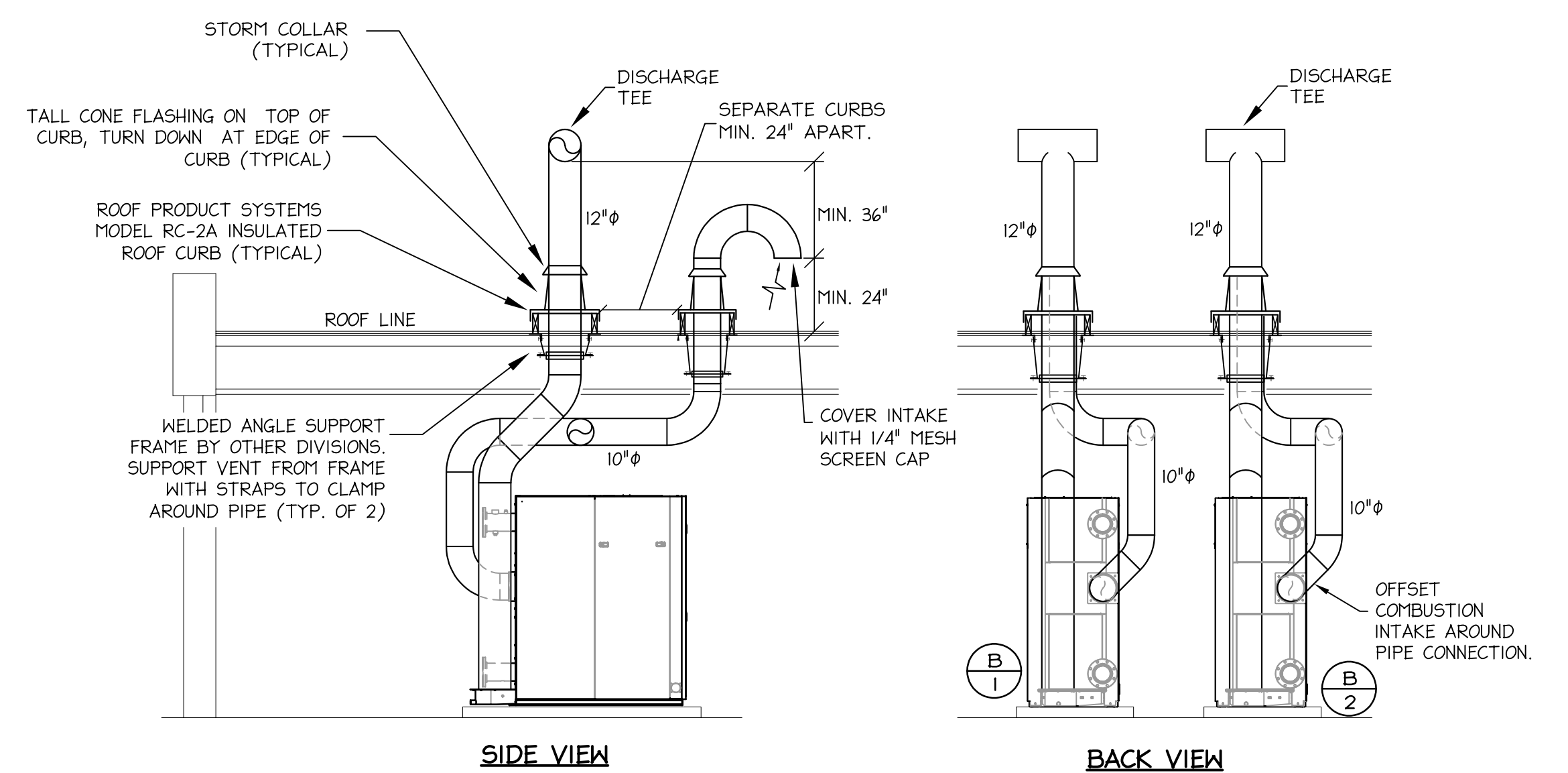


EXHAUST FAN ROOF CURB ADAPTOR DETAIL
NO SCALE

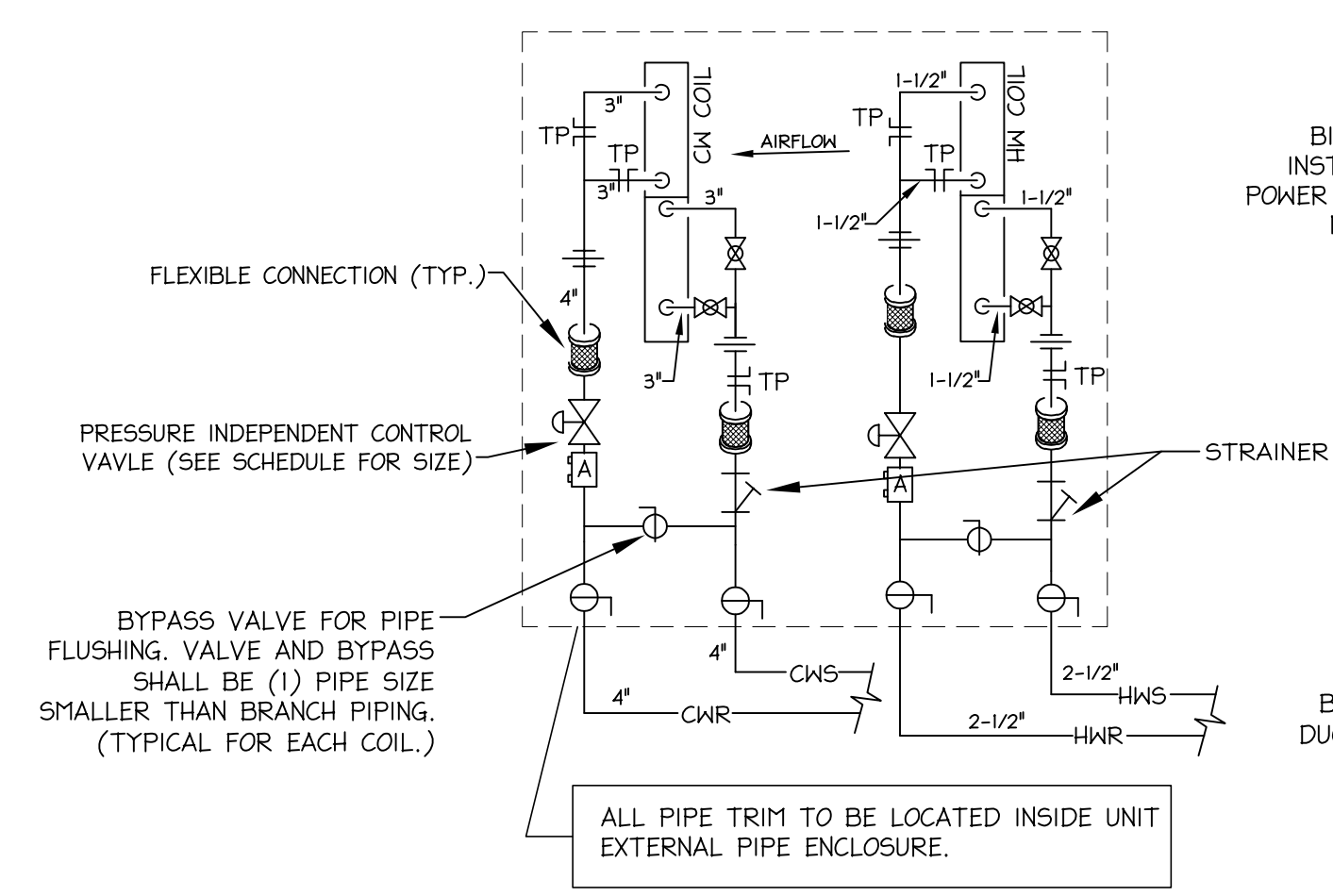


TYPICAL ROOFTOP UNIT DETAIL
NO SCALE

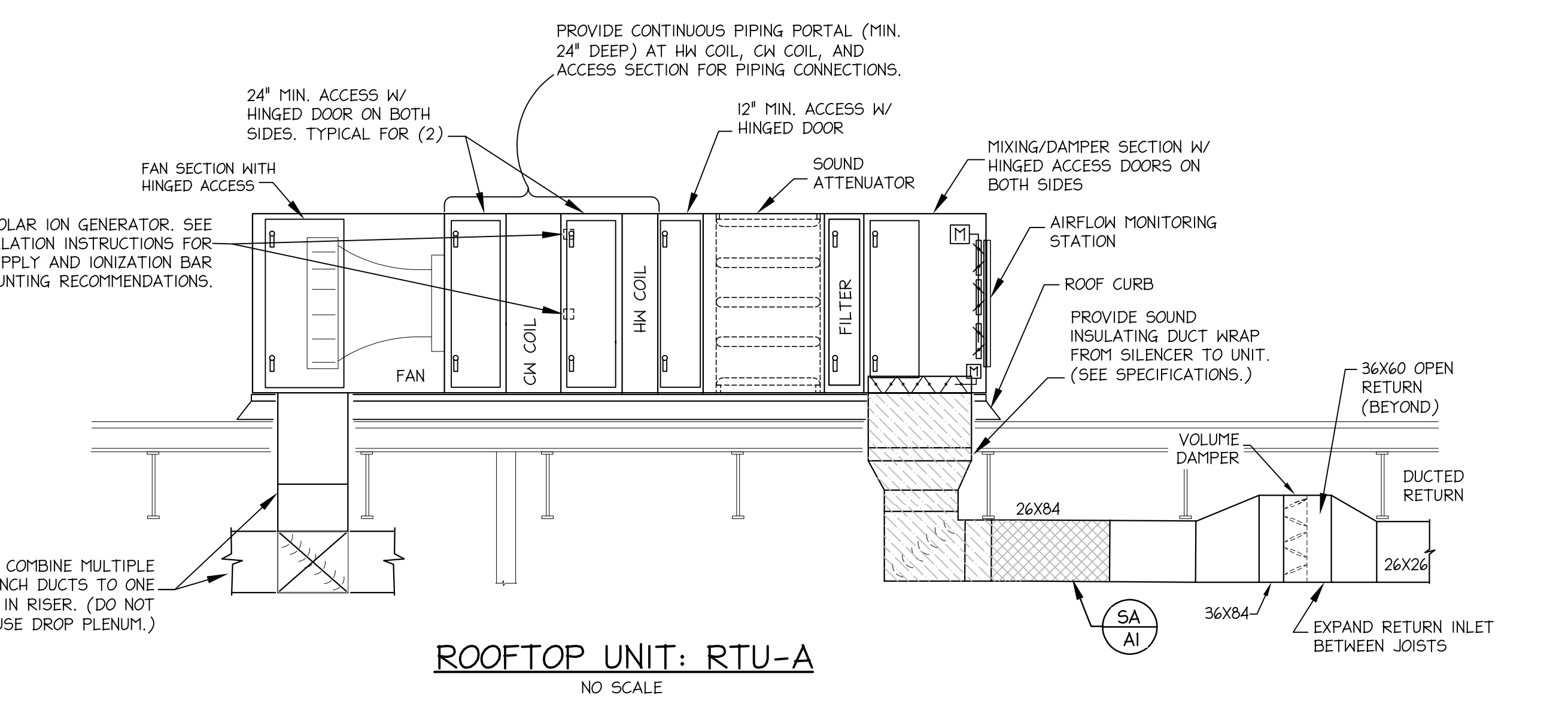
NOTES: 1.) DISTANCE SHALL BE 2\"/>



BOILER VENT/INTAKE DETAIL
NO SCALE



RTU-A PIPING DETAIL
NO SCALE



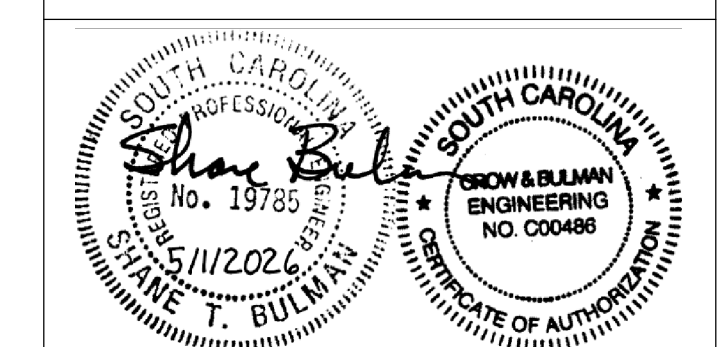
ROOFTOP UNIT: RTU-A
NO SCALE

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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
△	5/28/2026	OSE COMMENTS

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

HVAC DETAILS

M502

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						
		DESIGN CFM	Q.A. MIN CFM (A)	SIZE TYPE	RPM	HP	EXT. SP (IN. H.G.)	TOTAL SP (IN. H.G.)	ELEC.	ROHS FFP	EAT db/wb	LAT db/wb	MBH SENS.	MBH TOTAL	EXT(°F)	WATER Δ T	GPM	COIL FACE VEL.(FFM)	APD (IN. H.G.)	HPD (FT)	PIPE SIZE	CONTROL VALVE (PSI)	ROHS FFP	EAT(°F)	LAT(°F)	MBH	EXT(°F)	WATER Δ T	GPM	COIL FACE VEL.(FFM)	APD (IN. H.G.)		HPD (FT)	PIPE SIZE	CONTROL VALVE (PSI)			MFR/MODEL	VOLTAGE	POWER			
RTU-A	DAIKIN SKYLINE*	22,000	7920	2750	33 AIRFOIL	1160	40	3.0	5.37	460/3	10	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	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/TYP/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 RECEPTACLE (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 GTX16-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

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F

E

D

C

B

A

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/θ/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	A	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	A	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	A	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	A	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	A	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	A	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	A	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	A	T-A27
T-A28	A38 DATA	Price	SDV	7	7	600	-	1	0.25	0.09	29 (2)	21 (2)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	T-A28

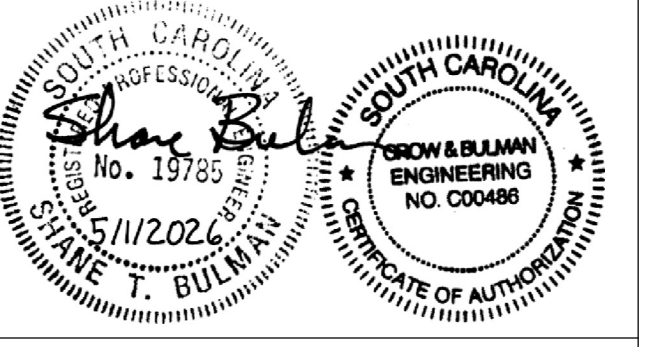
NOTES: • ALL HOT WATER COILS SHALL BE LOCATED ON THE TERMINAL INLET.
 • ROOM NC LEVEL SHOWN ARE BASED ON AHRI STANDARD 885-2008. (DASHED LINES INDICATE SOUND POWER LEVELS BELOW SIGNIFICANCE PER AHRI-885)
 • SOUND DATA SHALL BE OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ARI STANDARD 880.
 • HN COIL 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.

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.

(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



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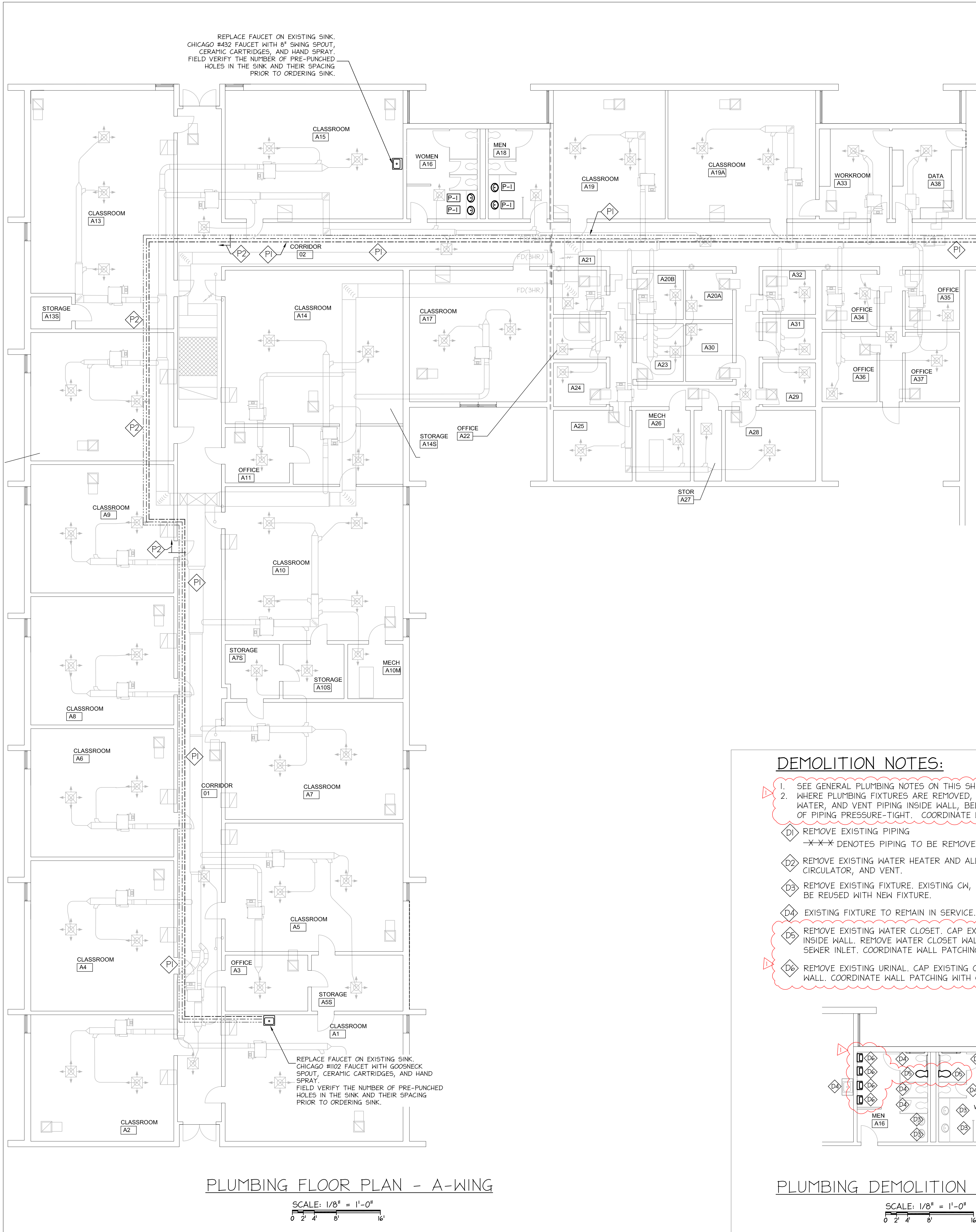


ALTERATIONS & ADDITIONS
POWERS BUILDING A-WING
 OSE PROJECT NO. H59-6353-JM
 131 COMMUNITY COLLEGE DRIVE SPARTANBURG, SC

MARK DATE DESCRIPTION
 Δ 5/28/2026 OSE COMMENTS

ISSUE: OSE CD
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 DRAWN BY: STB
 CHECKED BY: STB

HVAC SCHEDULES & DETAILS
M503



PLUMBING FLOOR PLAN - A-WING

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

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:

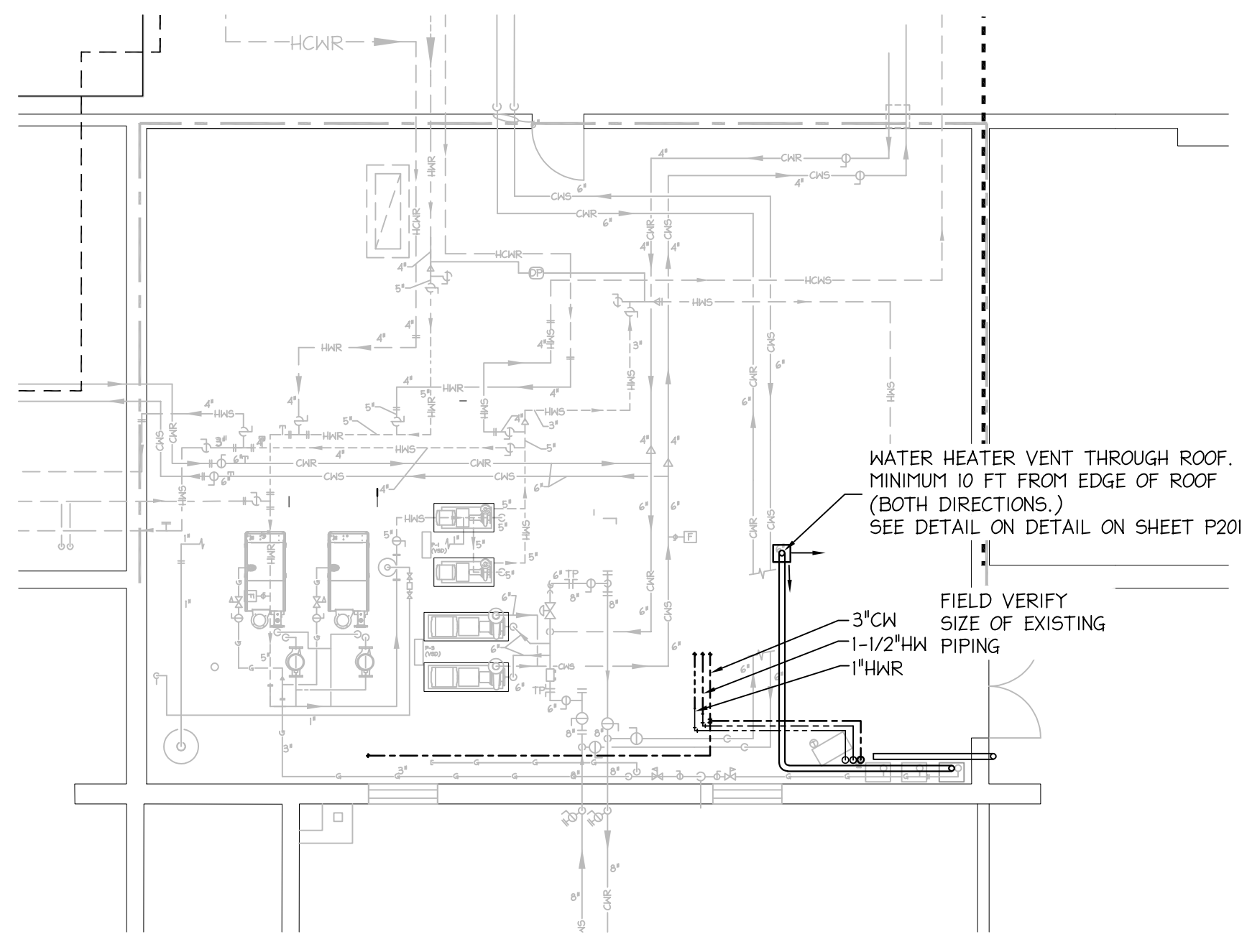
FUEL LINE DIA.	UP TO 1-1/2"	2"	2-1/2"	3"	4"	5"	6"
VENT LINE DIA.	3/4"	1"	1-1/4"	1-1/4"	2"	2"	2-1/2"

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 PIPING. 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
- G GATE VALVE
- B BALL VALVE
- U UNION
- C CHECK VALVE
- G V 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

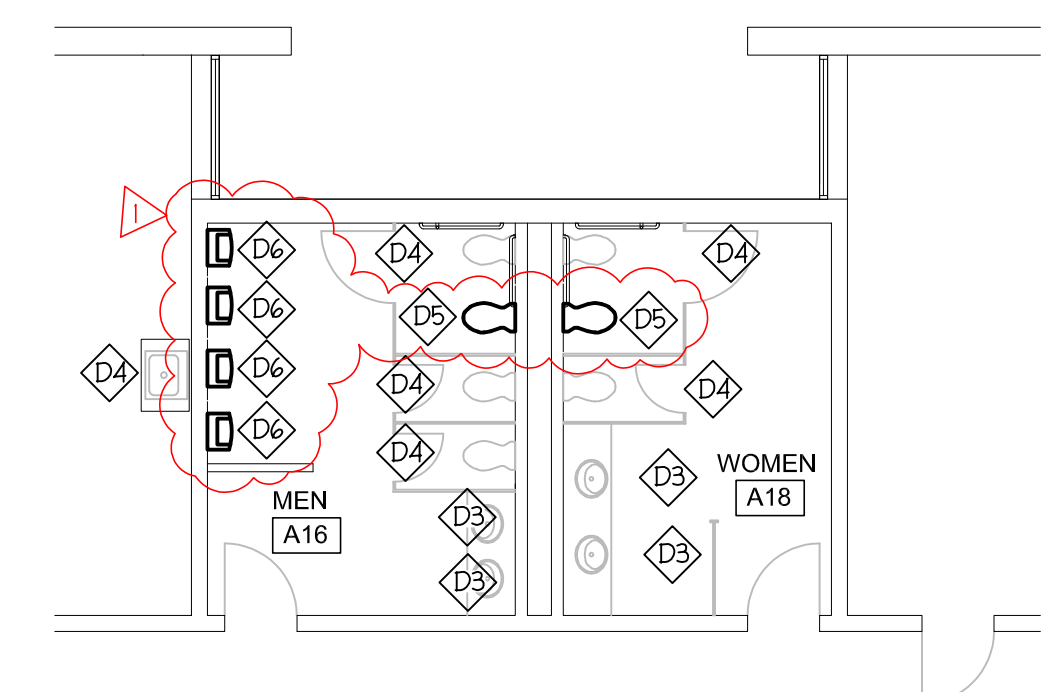


MECHANICAL ROOM PLUMBING PLAN

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

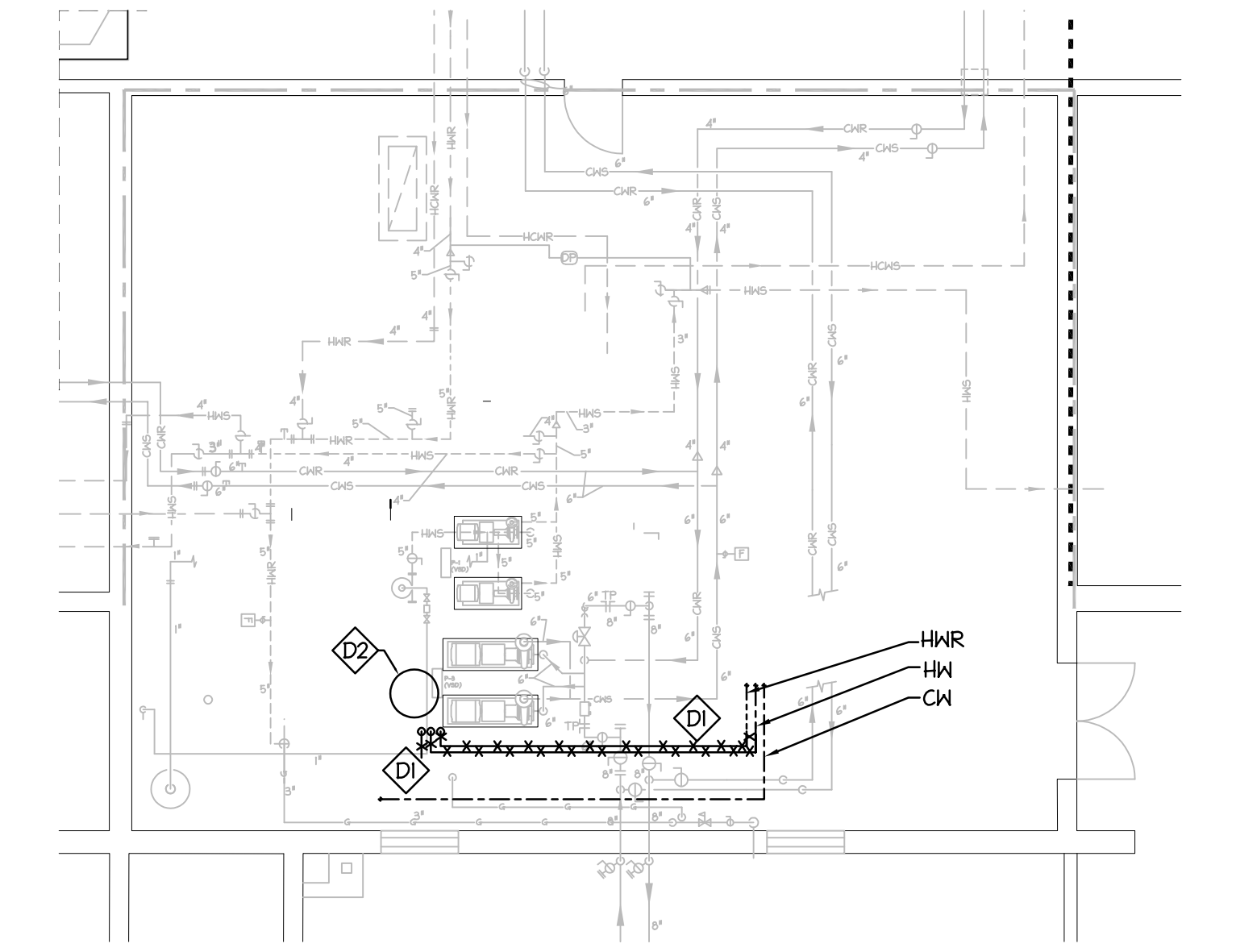
DEMOLITION NOTES:

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- 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"



MECH.-D25 PLUMBING DEMOLITION PLAN

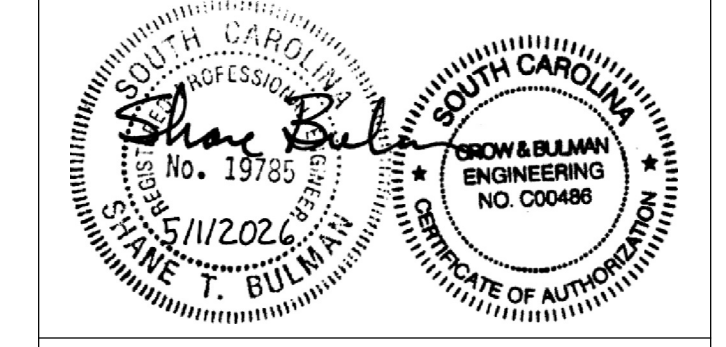
SCALE: 1/8" = 1'-0"



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POWERS BUILDING A-WING

OSE PROJECT NO.
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131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK DATE DESCRIPTION
▲ 5/28/2026 OSE COMMENTS

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PLUMBING FLOOR PLANS

P101

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 Briscoe Road
 Spart, South Carolina 29303

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

Designer/Contractor:
 Shane Bulman
 Crow & Bulman Engineering
 800 East Main St.
 Spartanburg, South Carolina 29302
 864-583-9903
 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) Signature: *Shane Bulman* Date: 5/1/2026

Project Title: SCC Powers A-Wing PLUMBING
 Data filename: _____

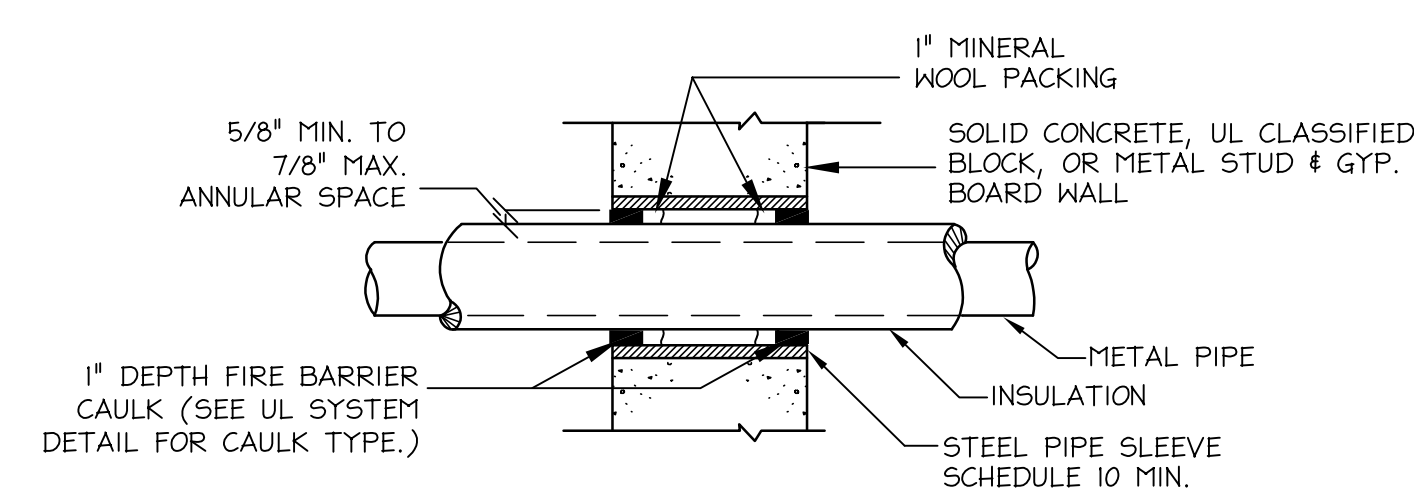
Report date: 05/11/26
 Page 1 of 6

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	NAVIER NPE-240	BIG ECOIRC XL 55-45(1/2 HP, 208V, 20 GPM, 50 FT HEAD)	SYMONS 7-700A	①②③
WH-2	-	NAT. GAS	13.3-199.9	95%	0.2	115	1	234	100°F	NAVIER NPE-240	---	---	①②③
WH-3	-	NAT. GAS	13.3-199.9	95%	0.2	115	1	234	100°F	NAVIER 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.

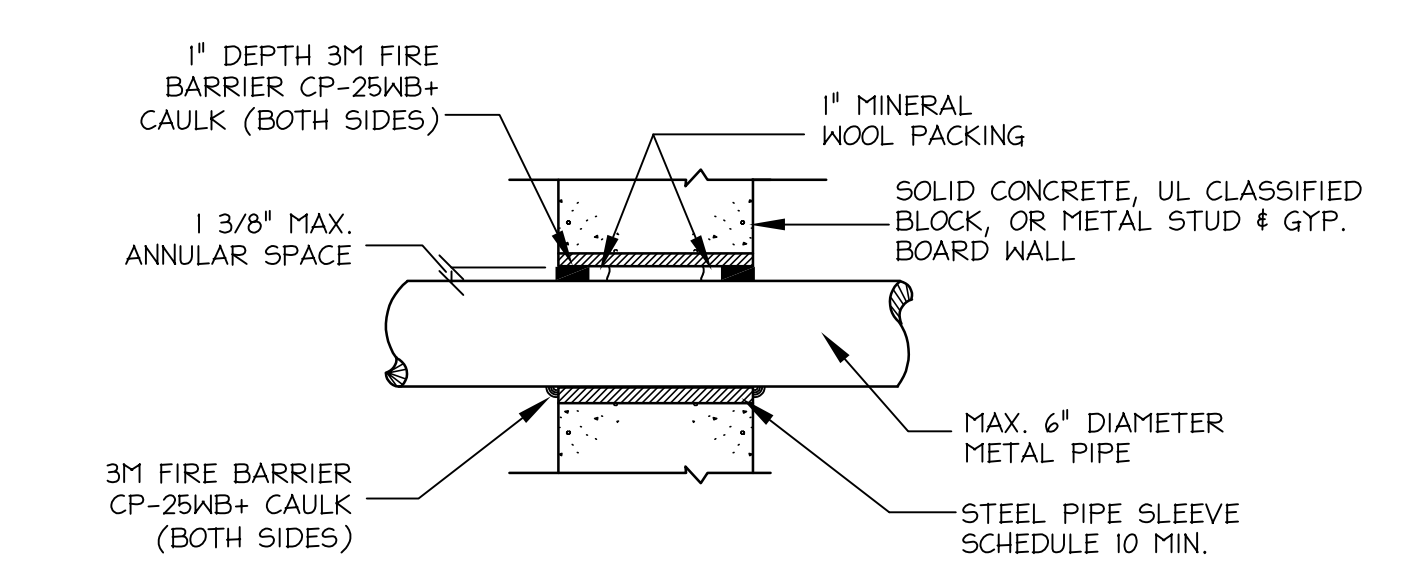
SUBSTITUTE MANUFACTURERS:
 • RINNAI #CX199
 • INTELLIHOT #200

FIXTURE SCHEDULE						
TAG	FIXTURE	HW	CW	WASTE	TRAP	MTD. HEIGHT
P-1	LAVATORY (ADA)	1/2"	1/2"	2"	1-1/4"	SEE 'A' DWGS



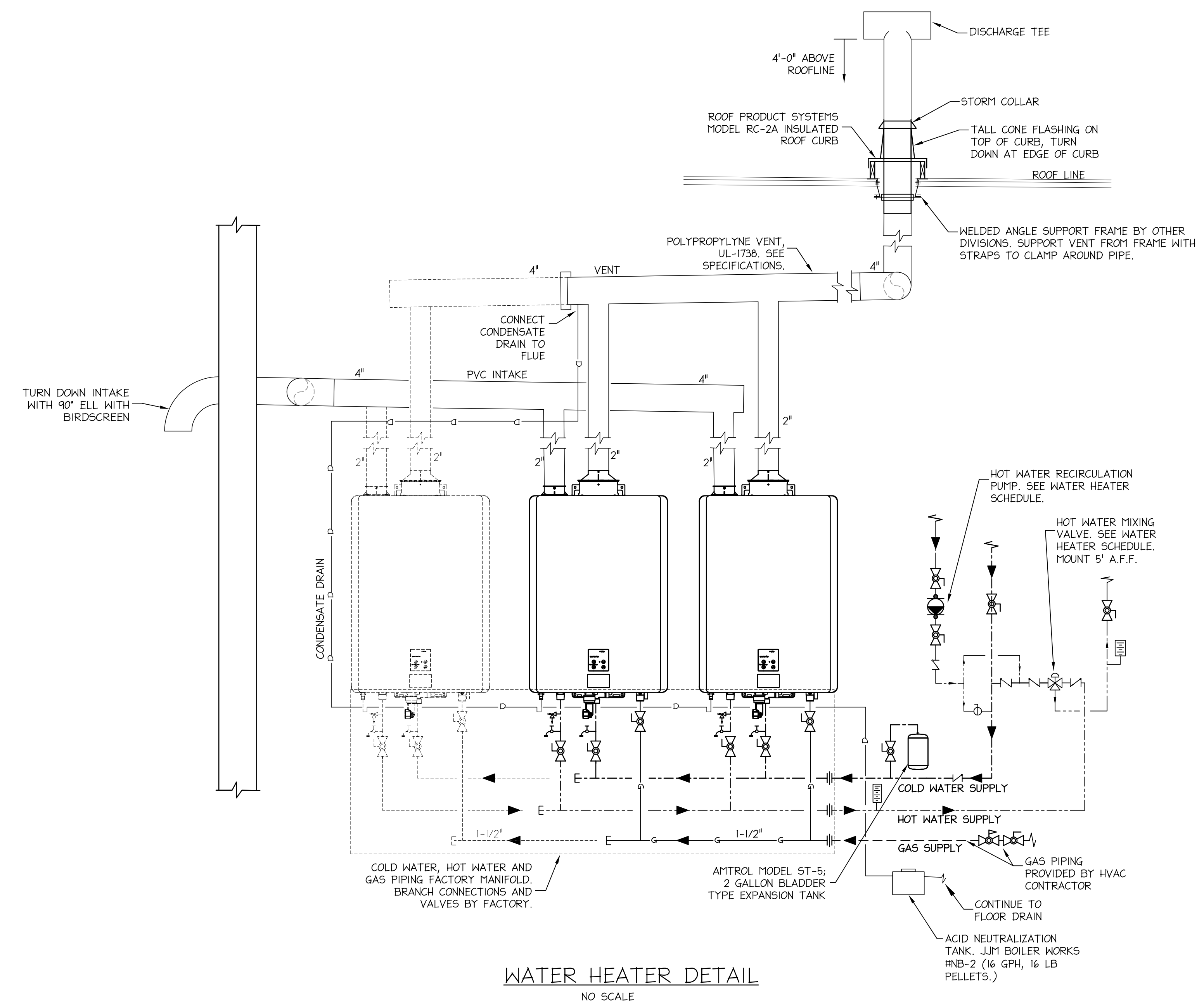
- APPLICATION DETAILS**
1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
 2. MINIMUM ANNULAR SPACE REQUIREMENT IS 5/8". MAXIMUM ANNULAR SPACE ALLOWABLE IS 7/8".
 3. RECESS A NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL FIRE SAFING, 1" FROM THE WALL SURFACE.
 4. FILL THE 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 3/8" FIRE BARRIER CP-25HB+ CAULK.

UNINSULATED PIPE (1, 2, 3, OR 4 HR)
 (UL SYSTEM #CAJ1044)
DETAIL OF PIPE PENETRATION OF ALL FIRE RATED FLOORS & PARTITIONS
 NO SCALE



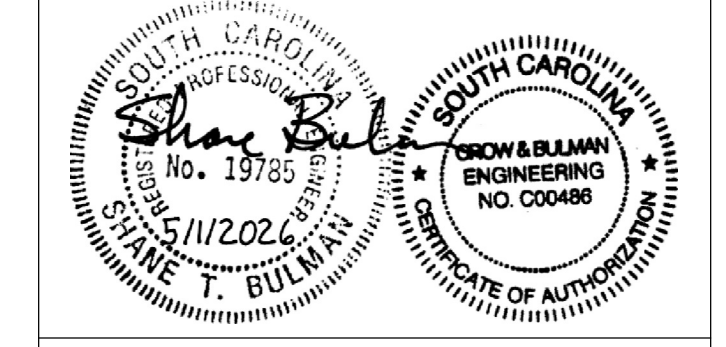
WATER HEATER DETAIL
 NO SCALE

CRAIG GAULDEN DAVIS PBK

19 Washington Park
 Greenville, SC 29601
 Phone 864.242.0761
 Fax 864.501.9945
 Email cgd@cgdarch.com

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CONSULTANT

CROW & BULMAN ENGINEERING, INC.
 800 EAST MAIN STREET, SPARTANBURG, SC 29302
 PHONE: 864-583-9903, WWW.CBENG.COM

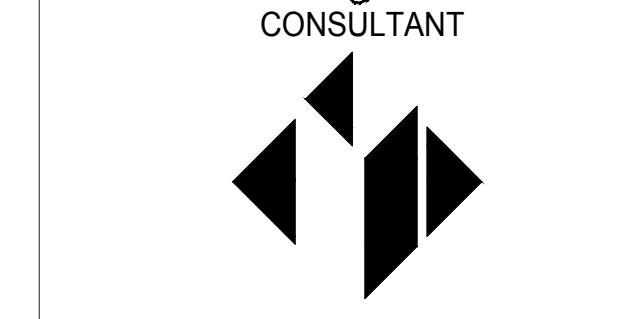
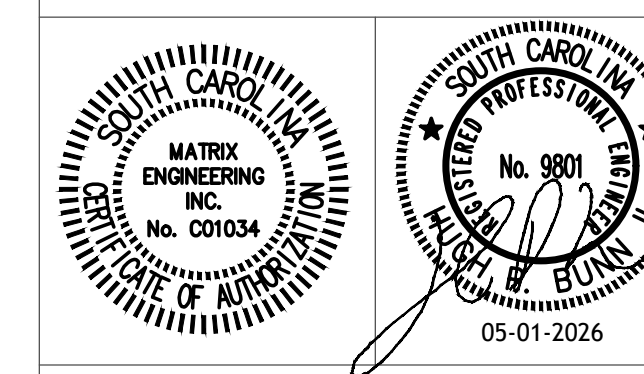
ALTERATIONS & ADDITIONS
POWERS BUILDING A-WING
 OSE PROJECT NO. H59-6353-JM
 131 COMMUNITY COLLEGE DRIVE
 SPARTANBURG, SC

MARK	DATE	DESCRIPTION
△	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



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

LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	LAMP	MANUFACTURER PART #	KELVIN	VOLTAGE	WATTAGE	COMMENTS
A	2'X4' LED TROFFER (4,900 LUMENS)	LED	COLUMBIA LIGHTING CATALOG #LCA24-35MLG-EDU METALUX LIGHTING CATALOG #24C22-50-UNV-L835-CD1-U H.E. WILLIAMS LIGHTING CATALOG #L1-24-152/835-AF-DM-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 #PAP24-44L-U-35 METALUX LIGHTING CATALOG #24F4735C COLUMBIA LIGHTING CATALOG #PT24-55/41/3435	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 #W3NLED-LD4-56HL-F-UNV-L835-CD1-U ILP LIGHTING CATALOG #FWS-SWLED-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 #OLXN500RN EMERGO-LITE LIGHTING CATALOG #ELXN400RN SURE-LITES LIGHTING CATALOG #APXYR	277	3	3	SURFACE MOUNTED
EX2	DUAL SIDED THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACKUP	LED	LIGHTALARMS LIGHTING CATALOG #OLXN500RN EMERGO-LITE LIGHTING CATALOG #ELXN400RN SURE-LITES LIGHTING CATALOG #APXYR	277	3	3	SURFACE MOUNTED
GE	OUTDOOR RATED LED 6" DOWNLIGHT WITH BATTERY BACKUP (2,000 LUMENS)	LED	SPECTRIUM LIGHTING CATALOG #SORTELEDOS-20L-40K-E-2-EMT-ARB22305-56-EMT PATHWAY LIGHTING CATALOG #MD6LBV-204K-E2-M4-EM H.E. WILLIAMS LIGHTING CATALOG #6DR-TL-L20/840-EM/7W-DIM-UNV-OW-0F-CS-R	4000K	277	20	RECESSED MOUNTED

- NOTES:**
- COORDINATE LED COLOR TEMPERATURE WITH OWNER PRIOR TO PURCHASING AND INSTALLING.
 - COORDINATE FINISHES WITH OWNER PRIOR TO PURCHASING AND INSTALLING.
 - COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO PURCHASING AND INSTALLING.
 - COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO PURCHASING AND INSTALLING.
 - COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO PURCHASING AND INSTALLING.
 - COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO PURCHASING AND INSTALLING.
 - VERIFY VOLTAGE REQUIREMENTS WITH RESPECT TO FLOOR PLAN CIRCUITING AND PANEL SCHEDULES.
 - 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.

- GENERAL NOTES**
- 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.
 - 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.
 - ALL WORK SHALL BE DONE IN A NEAT, QUALITY MANNER WITH ALL WIRING AND RACEWAYS CONCEALED.
 - 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.
 - 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 COMPLETED. THE ARCHITECT MAY, AT THIS POINT, MAKE ADJUSTMENTS TO THE BOX LOCATIONS AS DESIRED.
 - 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)

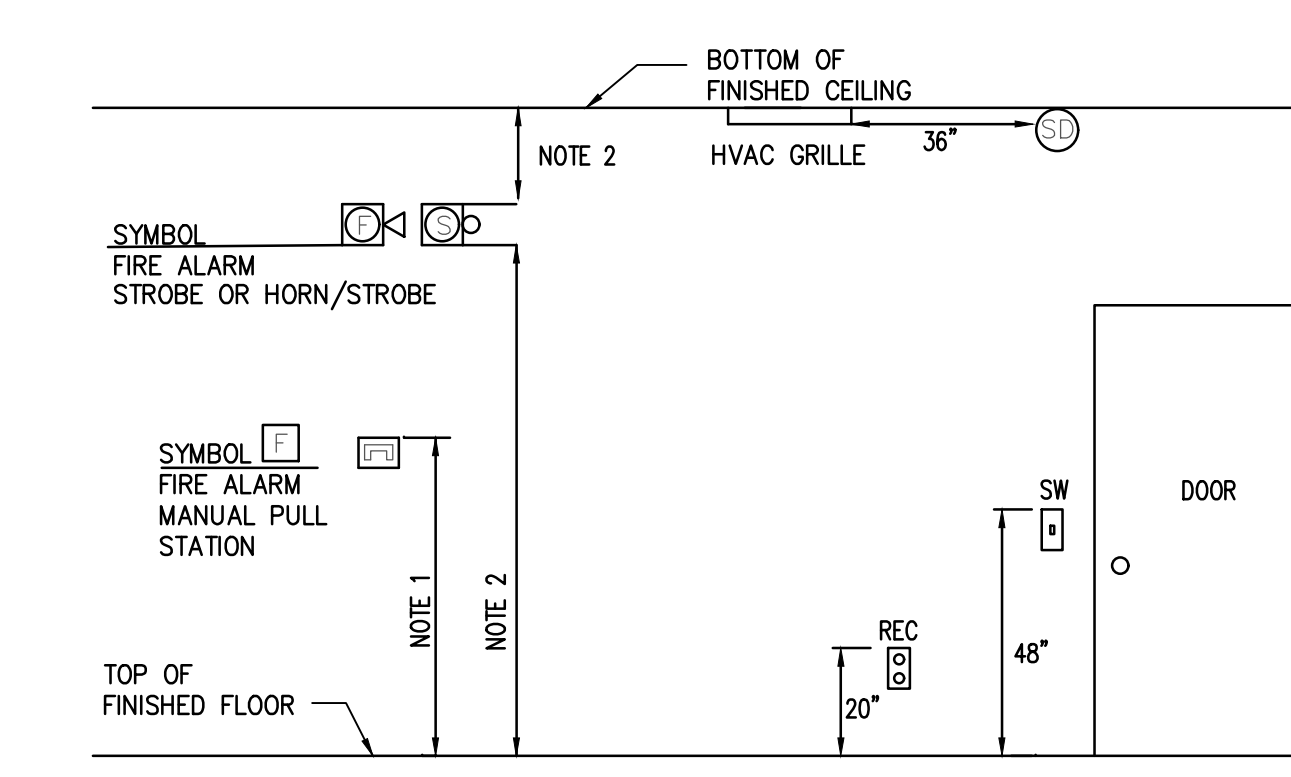
	#12	#10	#8	#6
120V, 20A	85'	110'	165'	270'
277V, 20A	160'	250'	390'	600'
 - THIS PROJECT TO MEET NFPA 72 AND ADA REQUIREMENTS REGARDING MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
 - RECESSED LIGHTING FIXTURES MUST HAVE 1/2" CLEARANCE FROM COMBUSTIBLE MATERIALS AND 3" CLEARANCE FROM INSTALLATION OR BE IC RATED PER ARTICLE 410.116 (A) 1 AND 2 AND 410.116 (B) OF THE 2020 NEC.
 - 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.
 - MINIMUM SIZE CONDUIT FOR 20A CIRCUITS IS 3/4" CONDUIT FOR METALLIC AND PVC CONDUIT.
 - 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.
 - 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.
 - FLASH PROTECTION WARNING LABELS REQUIRED ON SWITCHBOARDS, PANEL BOARDS, AND MOTOR CONTROL CENTERS PER ARTICLE 110.16 OF THE 2020 NEC.
 - SPACES ABOUT ELECTRICAL EQUIPMENT MUST MEET 110.26 (A THROUGH F) ARTICLE 2020 NEC.
 - RACEWAYS AND CABLES INSTALLED ABOVE SUSPENDED CEILING REQUIRED TO HAVE INDEPENDENT SUPPORT WIRES. CEILING 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.
 - TYPE NM, NMC AND NMS CABLES CANNOT BE USED ABOVE SUSPENDED CEILING PER ARTICLE 334.12 OF THE 2020 NEC.
 - 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.
 - 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
	QUADRUPLE OUTLET, 2 DUPLEX OUTLETS IN 2 GANG BOX WITH 2 GANG COVER PLATE
	20A, 125V, 3P, 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 #TR5262/USB-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.
	ADJACENT TO RECEPTACLE DENOTES GROUND FAULT INTERRUPTER OUTLET, (FEED THRU TYPE).
	ADJACENT TO RECEPTACLE INDICATES WEATHERPROOF IN-USE TYPE COVER.
	ADJACENT TO RECEPTACLE INDICATES WEATHER RESISTANT TYPE RECEPTACLE.
	JUNCTION BOX
	LIGHTING OR RECEPTACLE PANEL BOARD.
	DISCONNECT SWITCH.
	FUSED DISCONNECT SWITCH.
	DISCONNECT FURNISHED WITH EQUIPMENT
	MOTOR RATED SWITCH, CONTINUOUS CURRENT RATED, QUANTITY OF POLES AS REQUIRED
	EXHAUST FAN.
	SEE MECHANICAL DWGS. FOR FAN SPECIFICATIONS, MOTOR, HORSEPOWER AS SHOWN.
	"HOME-RUN" TO PANEL BOARD.

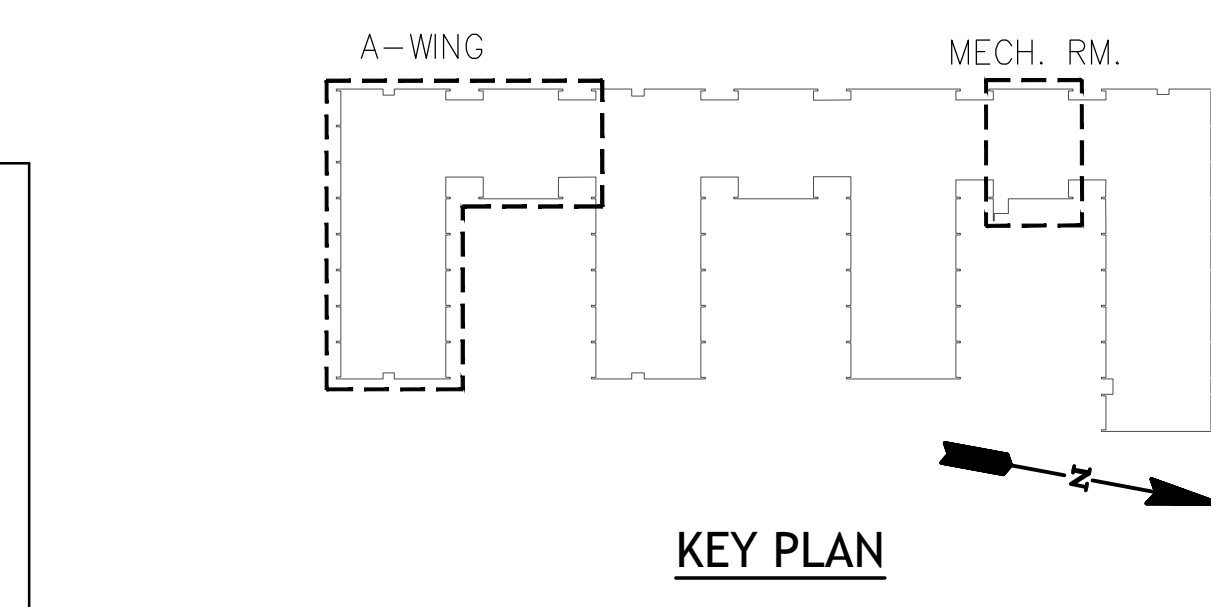
ELECTRICAL INFORMATION

SERVICE TRANSFORMER	<input type="checkbox"/> By Utility	750 KVA Primary
	<input checked="" type="checkbox"/> By College	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	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Fuel		
Exit/Emergency Lights Backup Power	<input checked="" type="checkbox"/> Integral Battery	
	<input type="checkbox"/> Generator	
Fire Alarm System	<input type="checkbox"/> Manual <input checked="" type="checkbox"/> Addressable	
	<input checked="" type="checkbox"/> Automatic <input type="checkbox"/> Class A	
	<input type="checkbox"/> Class B	
LIGHTNING PROTECTION PROVIDED	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	



TYPICAL DEVICE MOUNTING HEIGHT
SCALE: NONE

- MOUNTING NOTES:**
- MOUNT PULL STATION 4"-0" OFF TO THE TOP OF BOX.
 - MOUNT STROBE OR SPEAKER/HORN COMBINATION AT LEAST 6" OFF AND NOT MORE THAN 96" OFF. MOUNT DEVICE AT LEAST 6" DOWN FROM CEILING.



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 Gaalden Davis | PBK Architects, 19 Washington Park, Greenville, SC 29601
Designer/Contractor: Hugh P. Bum, Matrix Engineering Inc., 912 South Pine Street, Spartanburg, SC 29302

Section 2: Interior Lighting and Power Calculation

Area Category	Area (sq ft)	Proposed Watts (W)	Allowed Watts (W)	Excess Watts (W)
School/University (1810 sq ft)	1810	1810	1810	0
Total	1810	1810	1810	0

Section 3: Interior Lighting Fixture Schedule

Fixture ID - Description (Lamp / Wattage Per Lamp / Ballast)	A	B	C	D	E	F
	Quantity	Allowed Watts	Tradeable Watts	# of Fixtures	Proposed Watts	Excess (C x F)
LED 1: 2'x4' LED Troffer Other	1	36	36	1	36	0
LED 2: 2'x4' LED Flat Panel Other	1	42	42	1	42	0
LED 3: 4' LED Surface Mounted Fixture Other	1	48	48	1	48	0
Total Proposed Watts =	3	126	126	3	126	0

Section 4: Requirements Checklist

Interior Lighting PASSED

Lighting Wattage:
 Total proposed watts must be less than or equal to total allowed watts.

Controls, Switching, and Wiring:
 Daylight zones under skylights more than 10 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical glazing.
 Daylight zones have individual lighting controls independent from that of the general area lighting.
 Daylight zones have individual lighting controls independent from that of the general area lighting.
 Daylight zones have individual lighting controls independent from that of the general area lighting.

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 6, requirements in COMcheck Version 4.1.5.5 and to comply with the mandatory requirements in the Requirements Checklist.

Hugh P. Bum, PE
Name - Title
Signature
Date: 5/1/2026

Section 6: Exterior Lighting Efficacy:
 All exterior lighting fixtures have a minimum efficacy of 60 lumens/watt.

Section 7: Exterior Lighting Area/Surface Power Calculation

Exterior Area Surface	A	B	C	D	E	F
	Quantity	Allowed Watts	Tradeable Watts	# of Fixtures	Proposed Watts	Excess (E x F)
Main entry (12 ft of door width)	20	Yes	240	20	240	0
Other door (not main entry)	20	Yes	60	20	60	0
Total Tradeable Watts =	40	300	300	40	300	0
Total Allowed Supplemental Watts =	0	0	0	0	0	0

Section 8: Exterior Lighting Fixture Schedule

Fixture ID - Description (Lamp / Wattage Per Lamp / Ballast)	A	B	C	D	E	F
	Quantity	Allowed Watts	Tradeable Watts	# of Fixtures	Proposed Watts	Excess (E x F)
LED 1: 6" Outdoor Flood LED Downlight Other	1	20	20	1	20	0
LED 2: 6" Outdoor Flood LED Downlight Other	1	20	20	1	20	0
Total Proposed Watts =	2	40	40	2	40	0

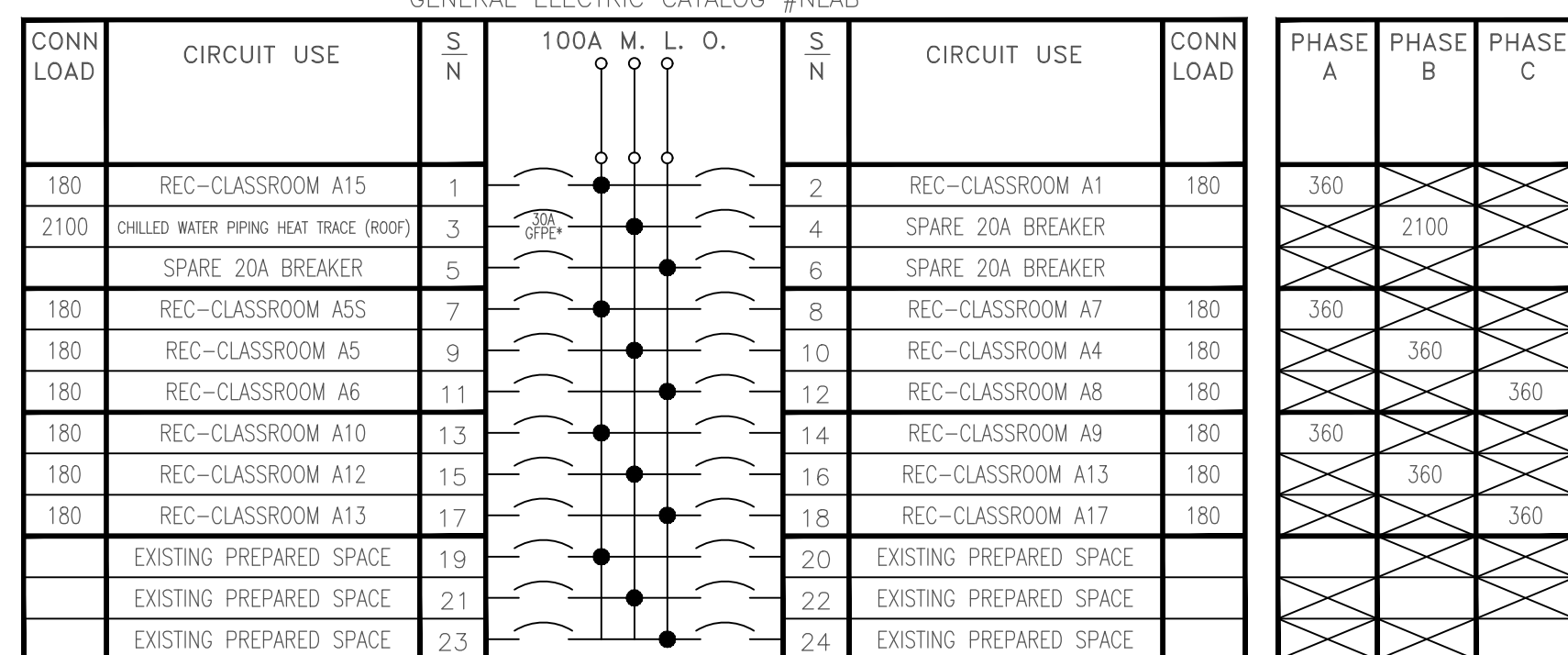
Section 9: Requirements Checklist

Lighting Wattage:
 Total proposed watts must be less than or equal to total allowed watts. Across all tradeable areas.
 Total proposed watts must be less than or equal to total allowed watts. Across all tradeable areas.
 Total proposed watts must be less than or equal to total allowed watts. Across all tradeable areas.

Controls, Switching, and Wiring:
 All exterior lighting fixtures have a minimum efficacy of 60 lumens/watt.
 All exterior lighting fixtures have a minimum efficacy of 60 lumens/watt.
 All exterior lighting fixtures have a minimum efficacy of 60 lumens/watt.
 All exterior lighting fixtures have a minimum efficacy of 60 lumens/watt.
 All exterior lighting fixtures have a minimum efficacy of 60 lumens/watt.

EXISTING PANEL "EP3"

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



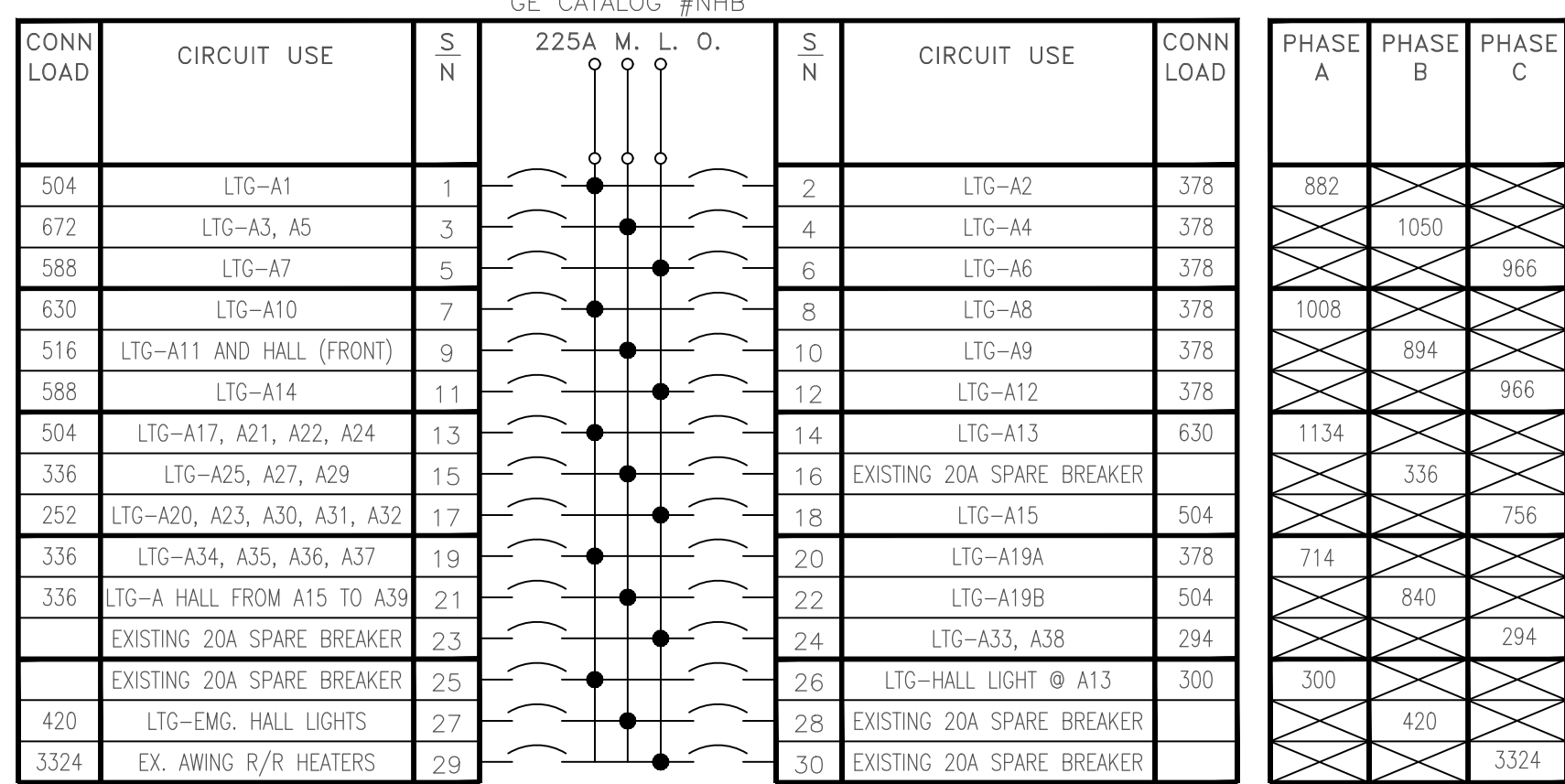
- NOTES:
1. PROVIDE UPDATED TYPED PANEL SCHEDULE.
2. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.

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

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

EXISTING PANEL "LP4"

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

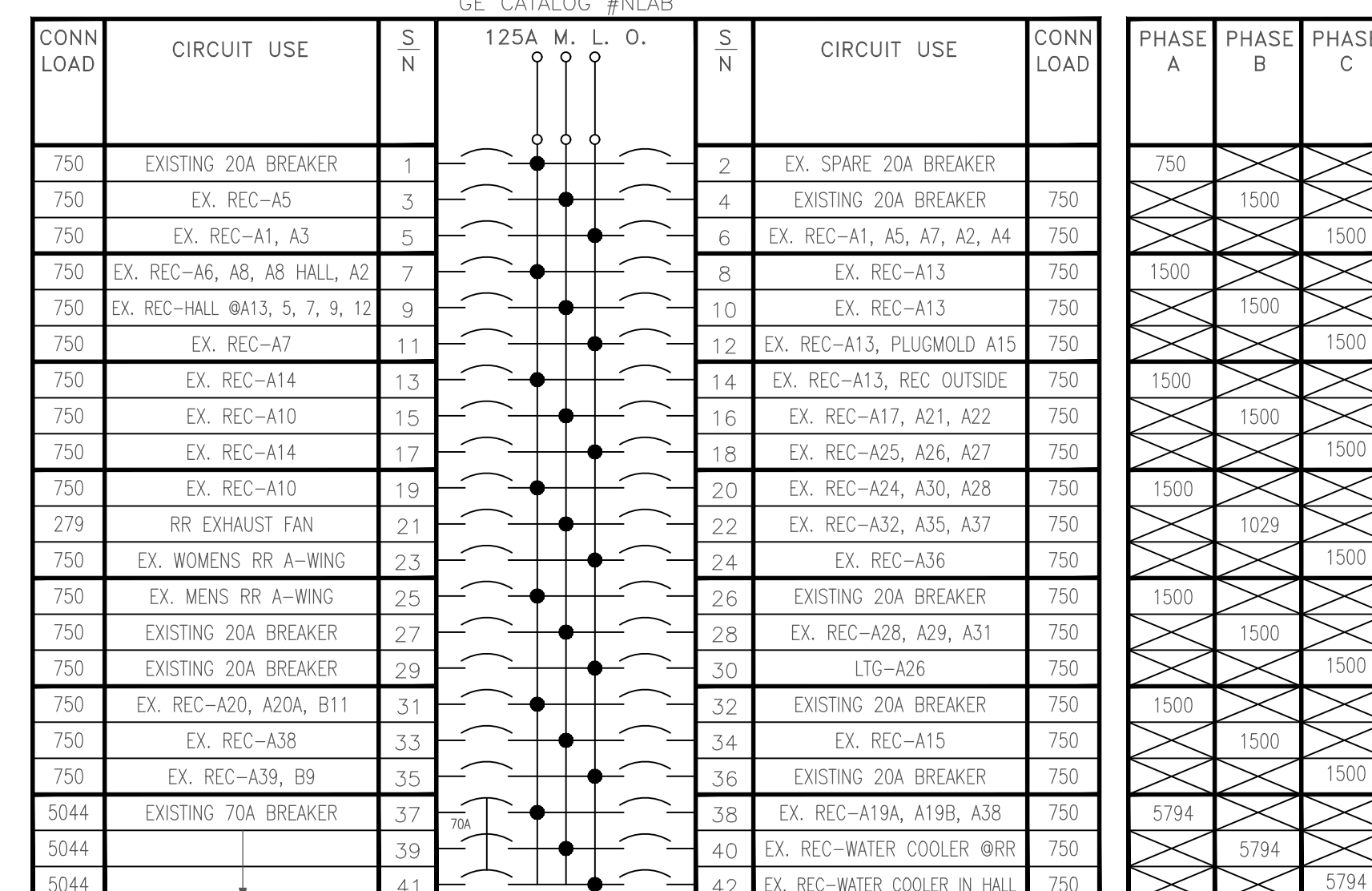


- NOTES:
1. PROVIDE UPDATED TYPED PANEL SCHEDULE.
2. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.

PHASE A	4038		
PHASE B		3540	
PHASE C			8306
TOTAL VA	13884		
CONNECTED AMPERAGE	17 AMPERES		

EXISTING PANEL "RP6"

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

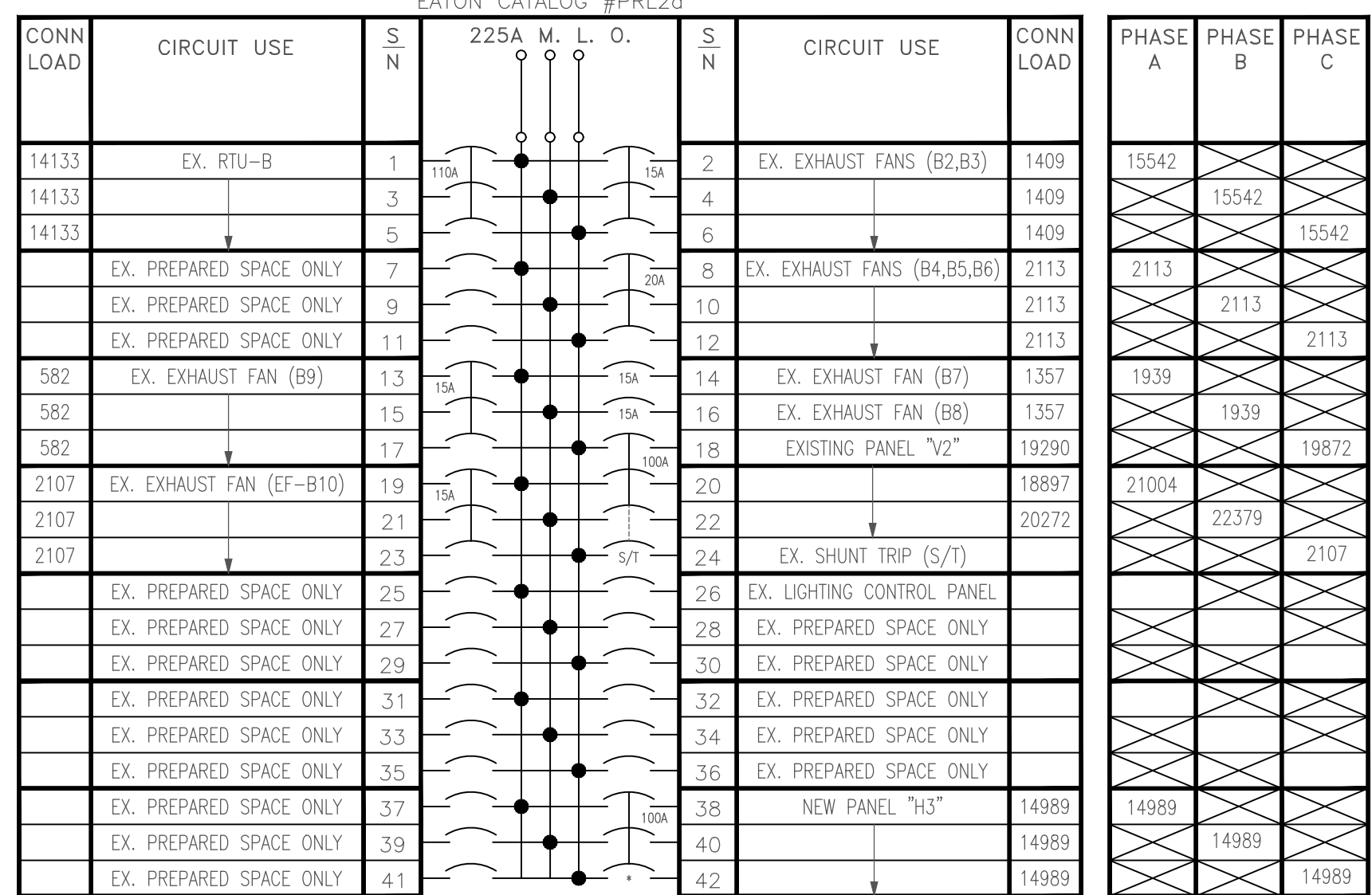


- NOTES:
1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE UPDATED TYPED PANEL SCHEDULE.

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

EXISTING PANEL "H2"

480/277 VOLT, 225 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
EATON CATALOG #PRL20



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

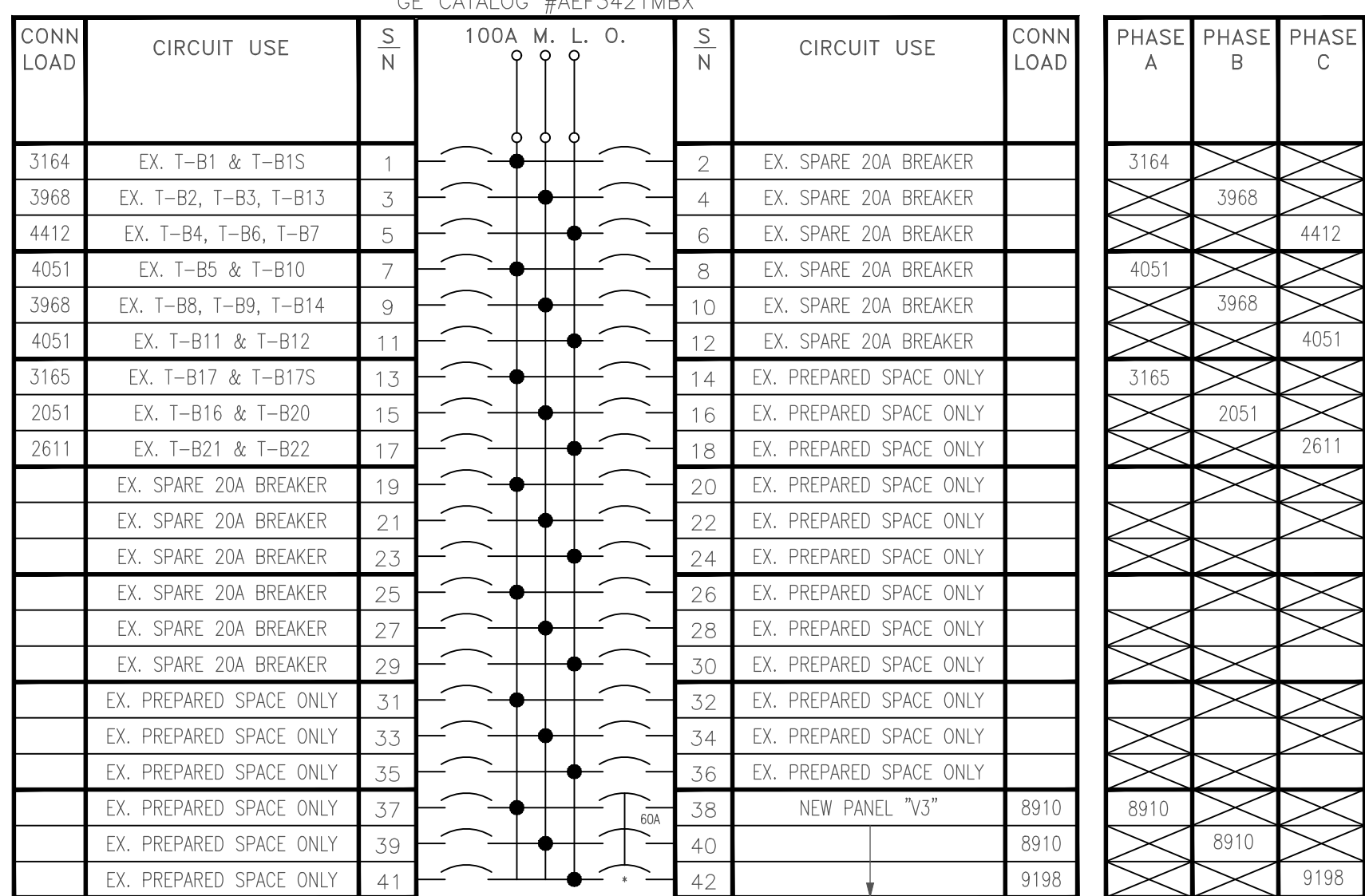
S/T - DENOTES SHUNT TRIP CIRCUIT BREAKER

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

PHASE A	5587		
PHASE B		5662	
PHASE C			54623
TOTAL VA	167172		
CONNECTED AMPERAGE	202 AMPERES		

EXISTING PANEL "V2"

480/277 VOLT, 100 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
GE CATALOG #AEF3421MBX



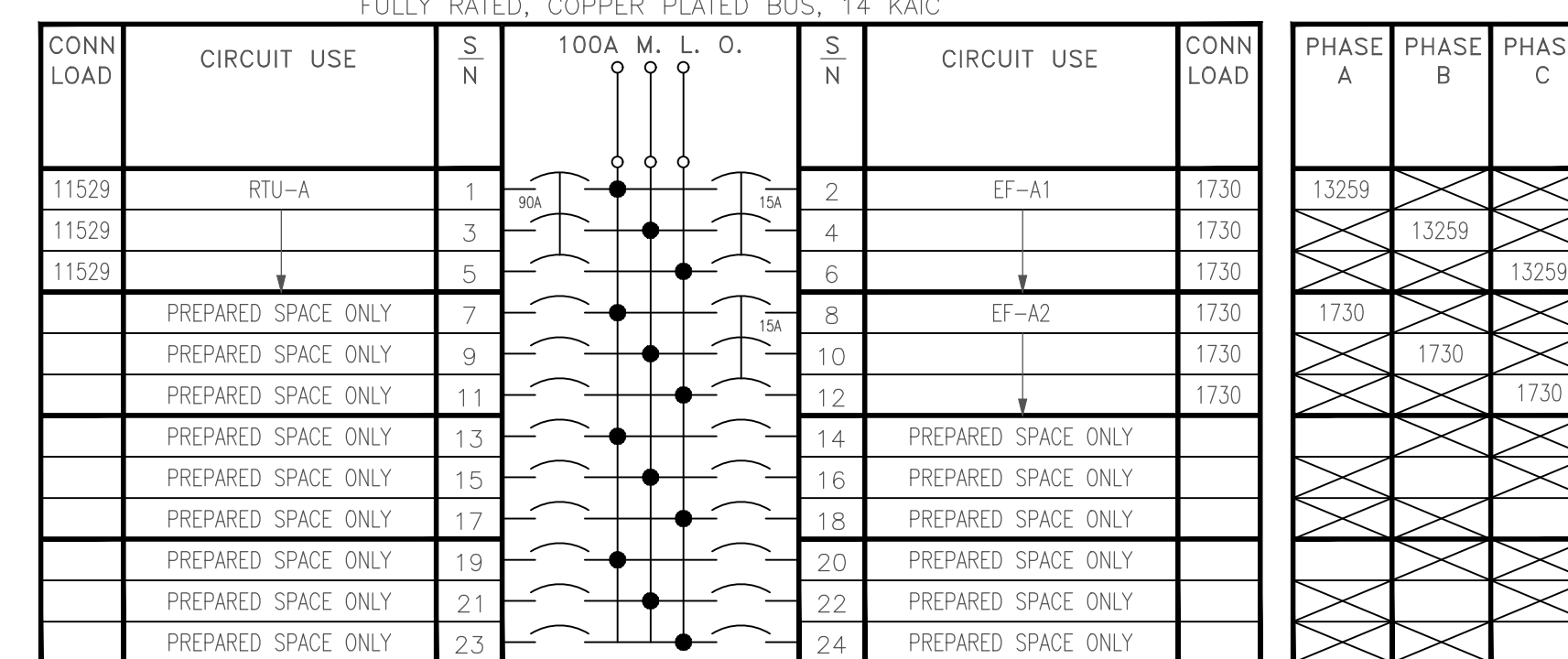
- NOTES:
1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE UPDATED TYPED PANEL SCHEDULE.

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

PHASE A	19230		
PHASE B		18897	
PHASE C			20272
TOTAL VA	58459		
CONNECTED AMPERAGE	71 AMPERES		

NEW PANEL "H3"

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

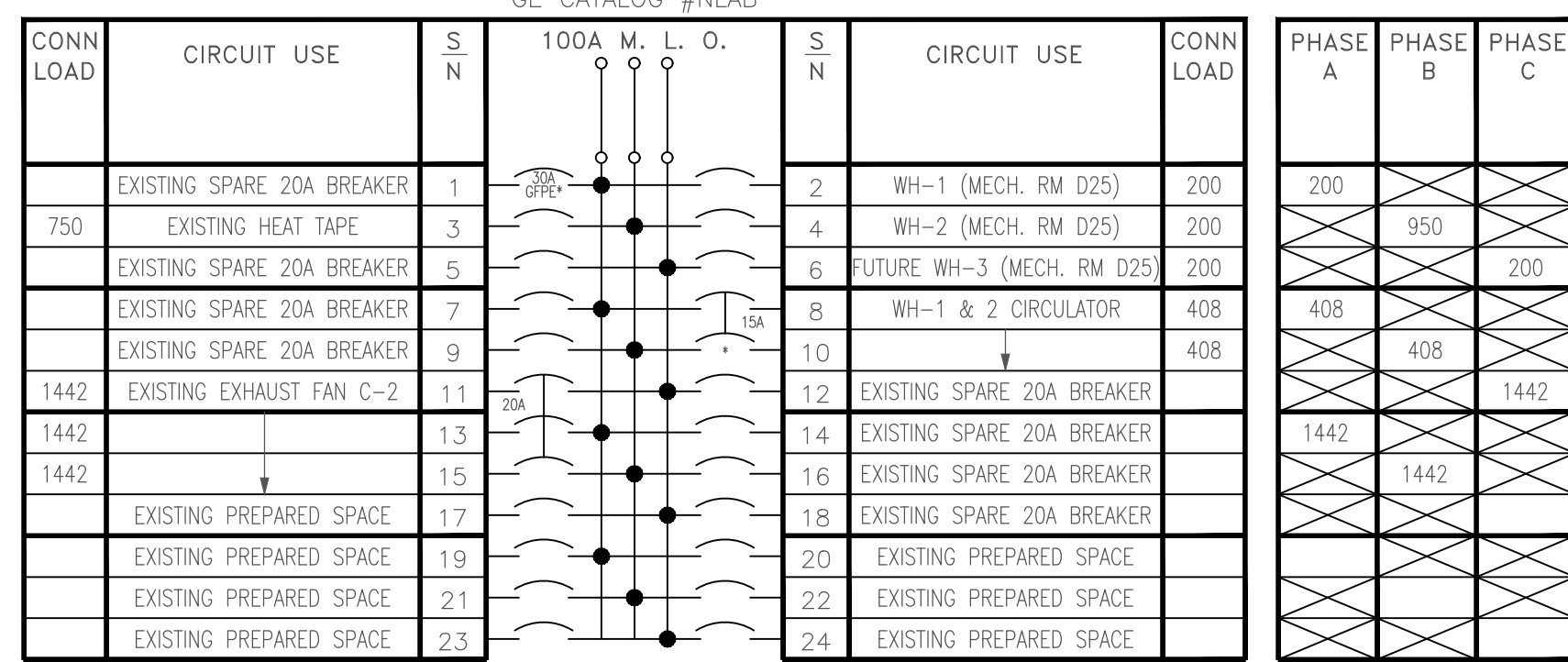


- NOTES:
1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE.

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

EXISTING PANEL "EP1"

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



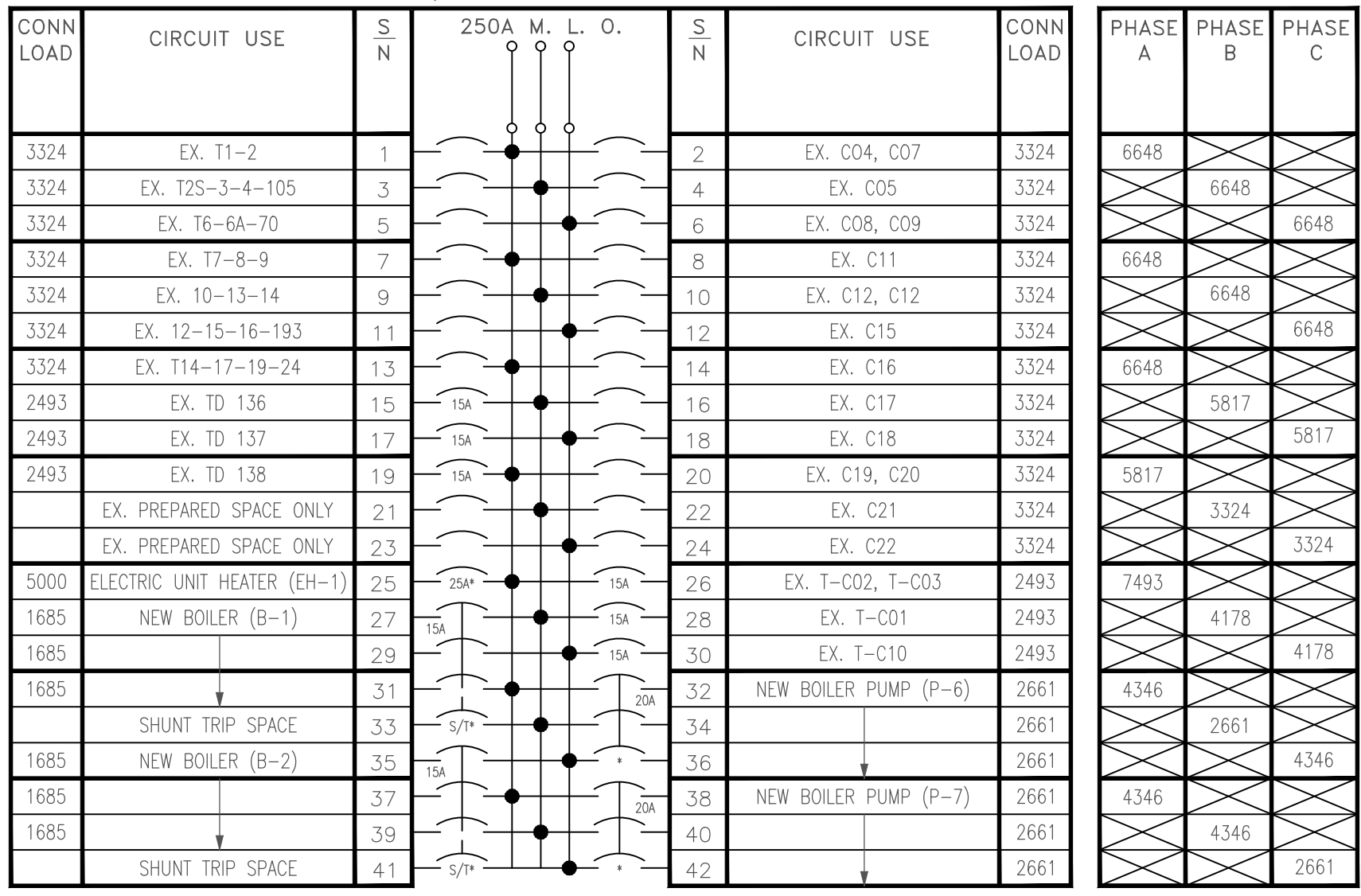
- NOTES:
1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE UPDATED TYPED PANEL SCHEDULE.

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

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

EXISTING PANEL "V"

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



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

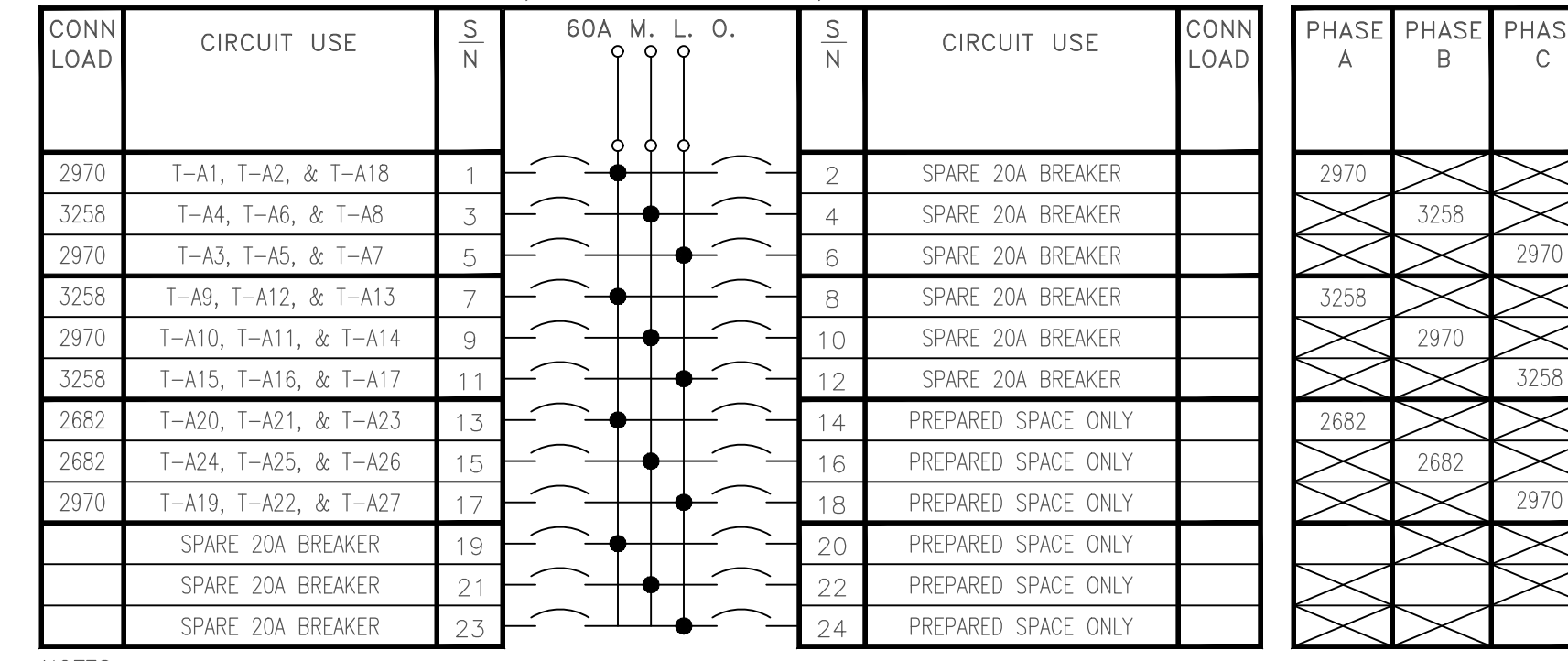
* DENOTES NEW CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.

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

PHASE A	41946		
PHASE B		33623	
PHASE C			33622
TOTAL VA	109190		
CONNECTED AMPERAGE	132 AMPERES		

NEW PANEL "V3"

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



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

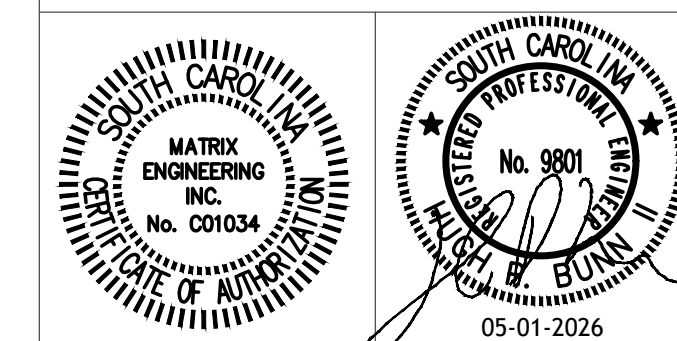
PHASE A	8910		
PHASE B		8910	
PHASE C			9198
TOTAL VA	27018		
CONNECTED AMPERAGE	33 AMPERES		

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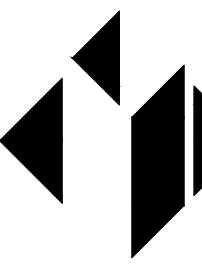
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CONSULTANT



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

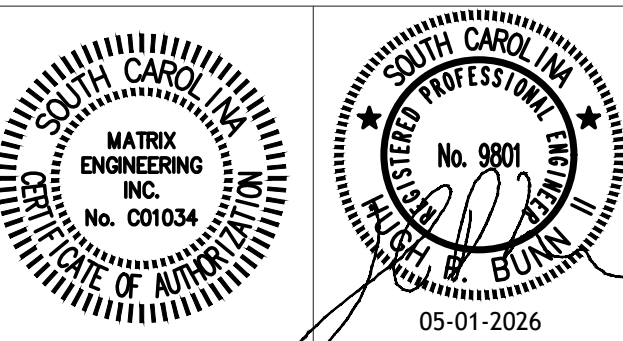
ISSUE: CD
DATE: 5/01/26
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DRAWN BY: NT
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PANEL SCHEDULES

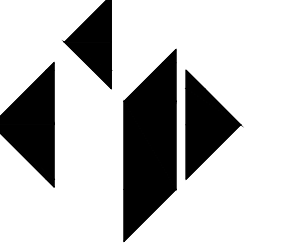
E002

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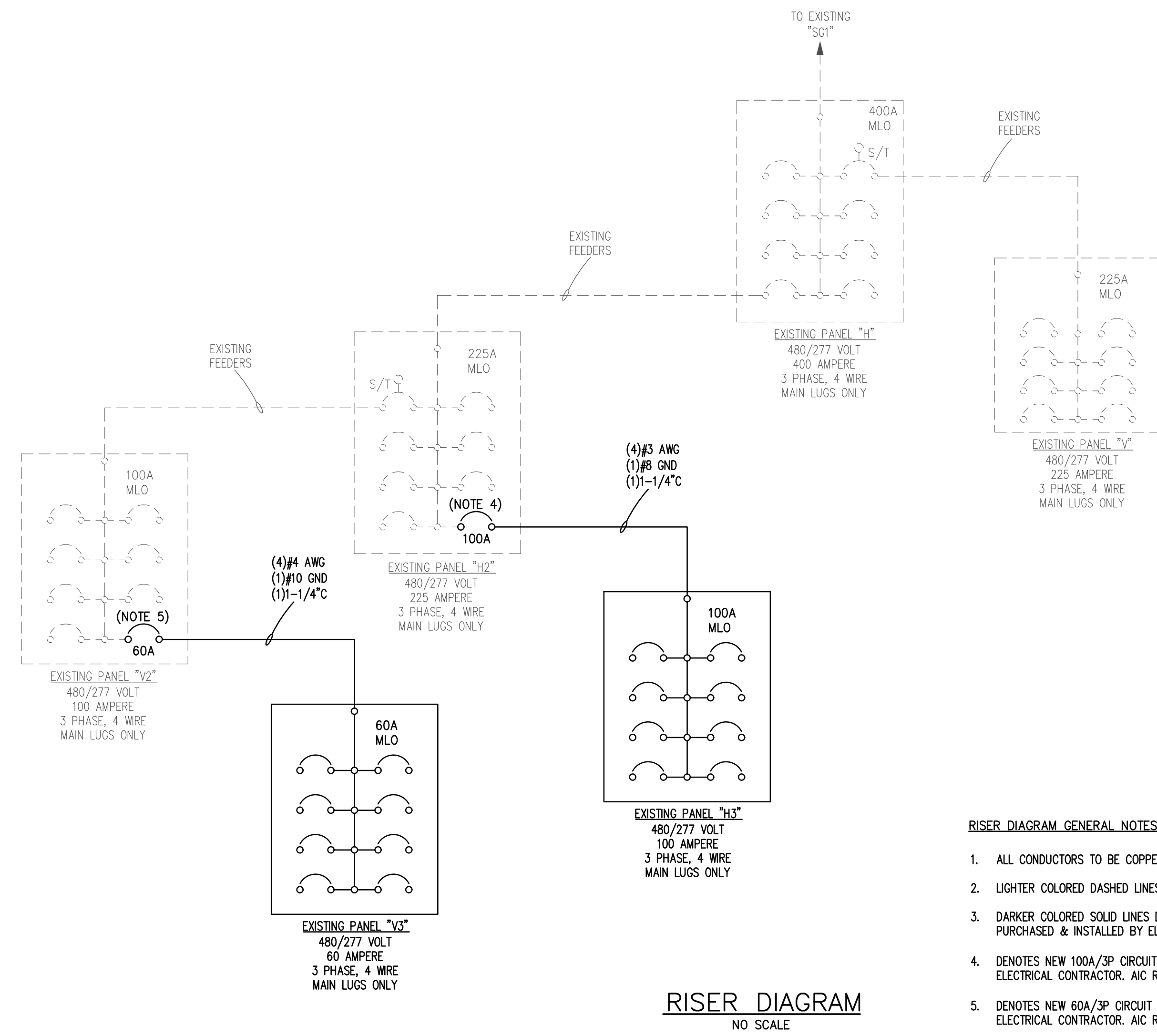
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

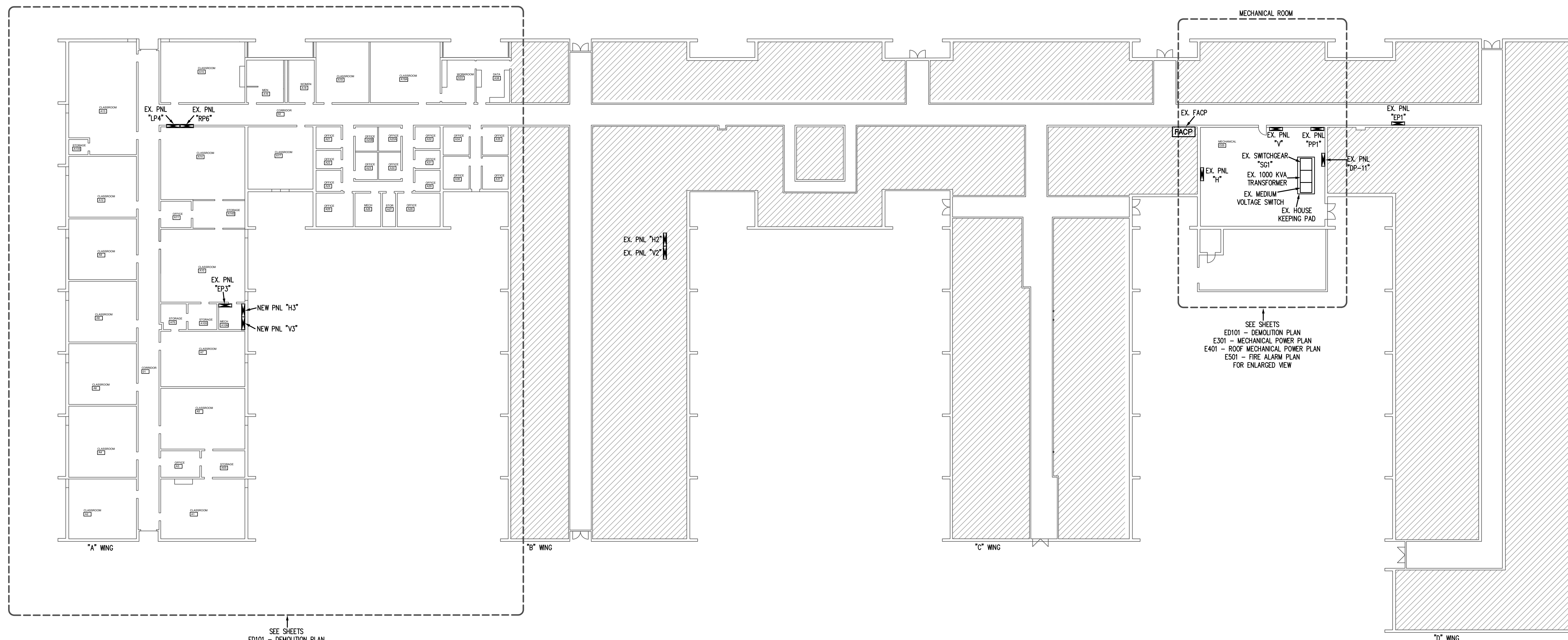
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ISSUE:	CD
DATE:	5/01/26
PROJECT NO.:	26010
DRAWN BY:	NT
CHECKED BY:	HPB

RISER DIAGRAM

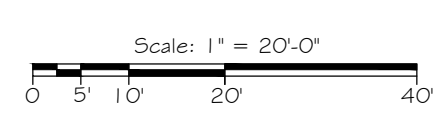
E003





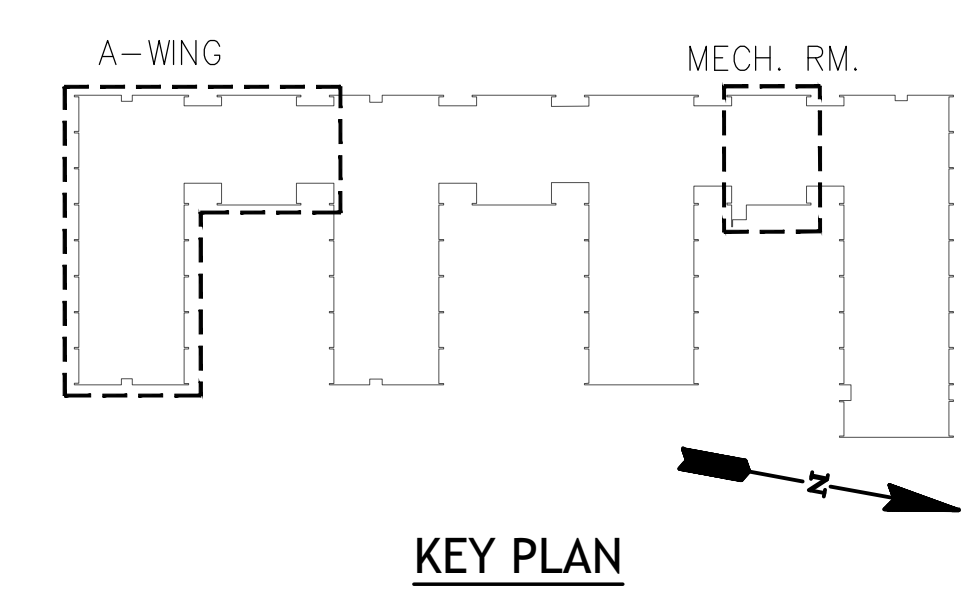
SEE SHEETS
 ED101 - DEMOLITION PLAN
 E101 - POWER PLAN
 E201 - LIGHTING PLAN
 E301 - MECHANICAL POWER PLAN
 E401 - ROOF MECHANICAL POWER PLAN
 E501 - FIRE ALARM PLAN
 FOR ENLARGED VIEW

OVERALL PLAN
 SCALE: 1"=20'-0"



GENERAL OVERALL PLAN NOTES:

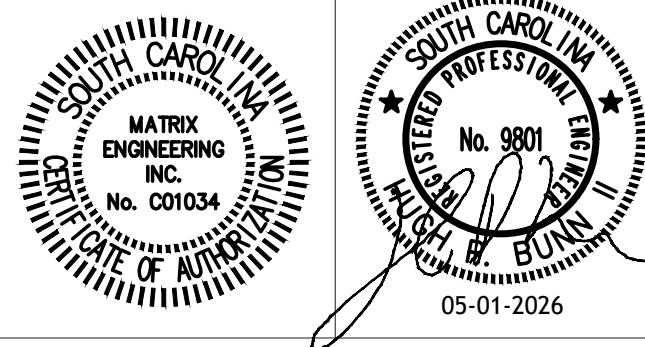
- COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES ON THE SITE PRIOR TO INSTALLATION.
- ALL WORK SHALL COMPLY WITH THE CURRENTLY ADOPTED CODES, ORDINANCES, AND AMENDMENTS.
- HATCHED AREAS DENOTES EXISTING AREA WHERE NO WORK IS TO BE DONE.



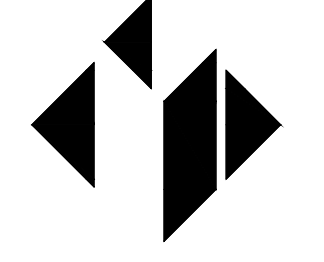
KEY PLAN

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 Spartanburg, South Carolina, 29302
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ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

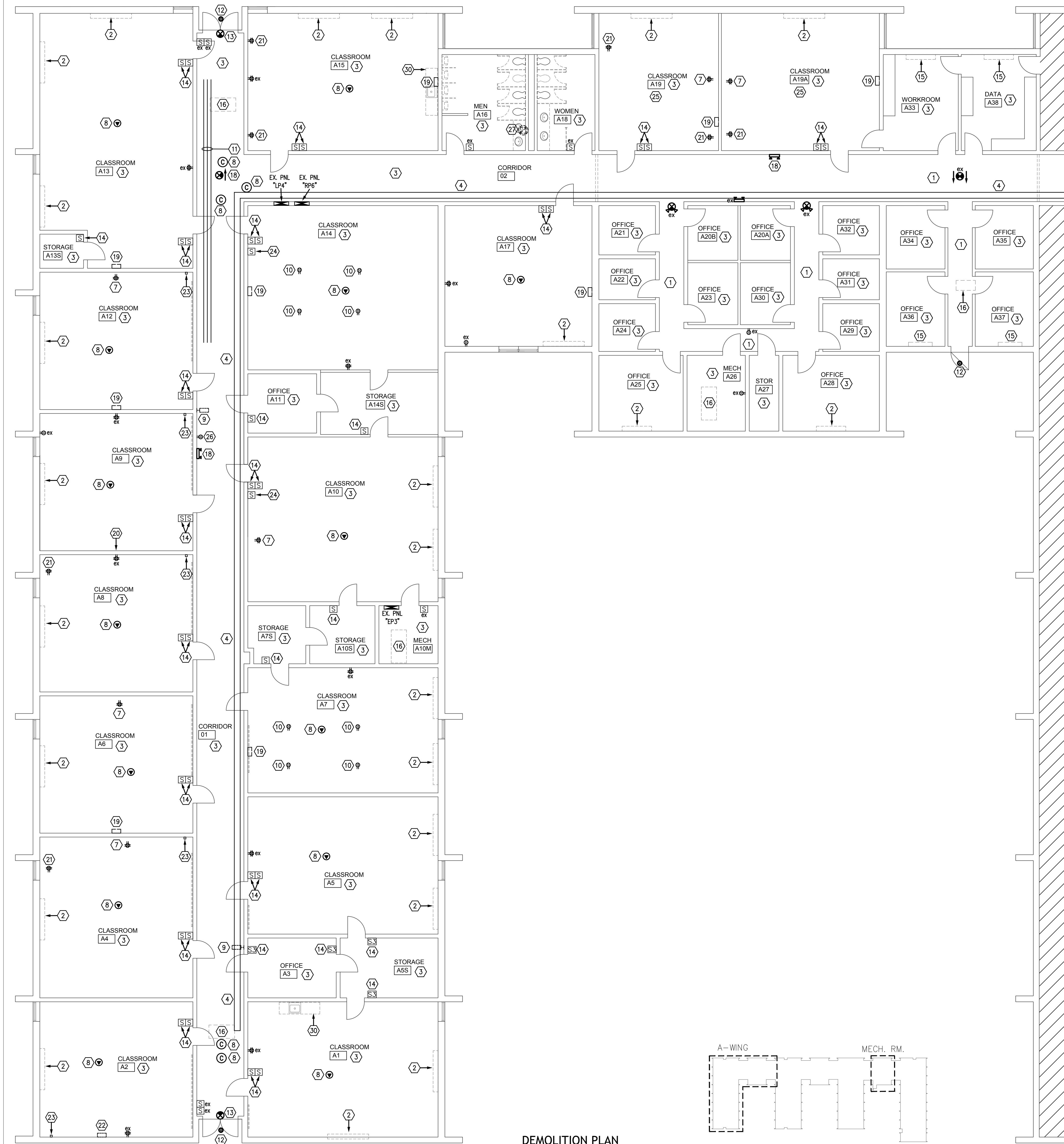
OSE PROJECT NO.
 H59-6353-JM

131 COMMUNITY COLLEGE DRIVE
 SPARTANBURG, SC

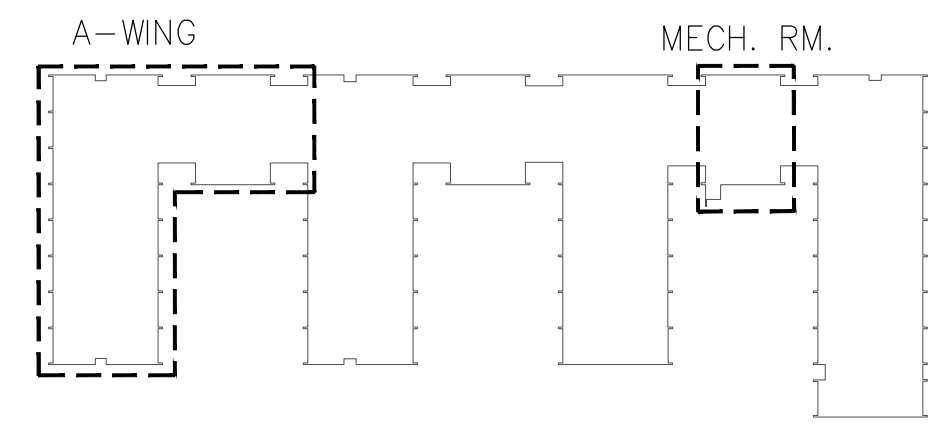
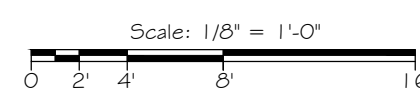
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PROJECT NO.:	26010
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OVERALL PLAN



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



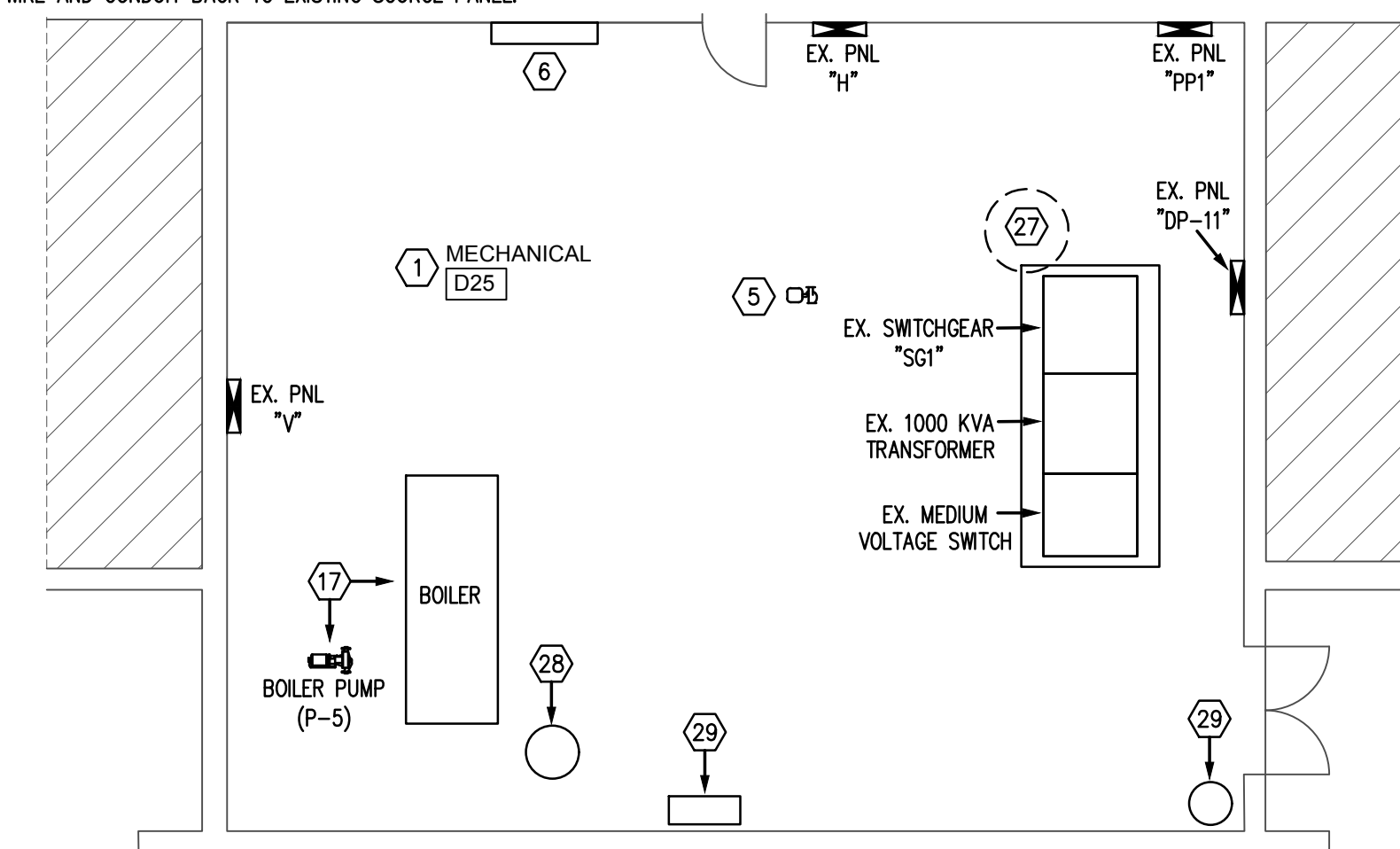
KEY PLAN

GENERAL DEMOLITION PLAN NOTES:

- COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL, GENERAL CONTRACTOR AND ALL OTHER TRADES ON SITE PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO "MAKE SAFE" ALL ELECTRICAL COMPONENTS ASSOCIATED WITH PROJECT BEFORE DEMOLITION BEGINS.
- 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.
- 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.
- 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.
- ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR ALL TRADES. ALL EXISTING EQUIPMENT SHALL REMAIN ON EXISTING SURFACE UNLESS SPECIFICALLY NOTED OTHERWISE.
- 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.
- 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.
- 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.
- COMPLY WITH OWNER'S STANDARDS AND ALL APPLICABLE LOCAL STANDARDS, CODES AND REGULATIONS.
- ALL CIRCUITS AND POWER CONDUCTORS TO BE CONSIDERED ENERGIZED UNLESS OTHERWISE TESTED AND FIELD VERIFIED FOR BEING DE-ENERGIZED.
- "ex" ADJACENT TO DEVICE DENOTES EXISTING DEVICE TO REMAIN.
- PANELS ARE EXISTING TO REMAIN.
- EXISTING MC CABLE ABOVE THE CEILING NOT SUPPORTED TO THE EXISTING STRUCTURE WILL NEED TO BE SECURED AS REQUIRED BY THE NEC.
- 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.
- 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).
- DO NOT ABANDON BRANCH CIRCUIT WIRING ABOVE CEILINGS OR IN WREATHAYS.
- 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.
- 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.
- DELETED.
- ELECTRICAL CONTRACTOR TO REMOVE PROJECTORS AND ASSOCIATED SPEAKERS DURING THE DEMOLITION OF CEILING AND REINSTALL AFTER NEW CEILING IS INSTALLED.

KEYED DEMOLITION PLAN NOTES:

- DENOTES AREA WHERE EXISTING LIGHTING AND CONTROLS ARE TO REMAIN.
- 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.
- 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.
- 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.
- 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.
- DENOTES LOCATION OF EXISTING PUMP CONTROLLERS.
- 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.
- 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.
- 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.
- DENOTES EXISTING CEILING MOUNTED CORD REELS AND RECEPTABLES TO BE REMOVED. REMOVE ALL WIRING AND CONDUIT BACK TO NEAREST JUNCTION BOX. TURN CORD REELS OVER TO OWNER.
- 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.
- 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.
- 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.
- DENOTES EXISTING LIGHT SWITCH TO BE REMOVED. SEE SHEET E201 FOR THE LOCATION OF NEW CONTROLS FOR LIGHTING.
- 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.
- 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.
- 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.
- DENOTES EXISTING EMERGENCY FIXTURE TO BE REMOVED. ELECTRICAL CONTRACTOR TO REMOVE ALL WIRING AND CONDUIT BACK TO JUNCTION BOX.
- 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.
- DENOTES AREA WHERE EXISTING CLOCK IS ALREADY REMOVED. ELECTRICAL CONTRACTOR TO INSTALL A COVER PLATE OVER CLOCK BOX. COORDINATE WITH COLLEGE IT DEPARTMENT/ARCHITECT.
- DENOTES APPROXIMATE LOCATION OF EXISTING CEILING MOUNTED QUAD RECEPTACLE FOR TV TO BE REMOVED. REMOVE ALL WIRING AND CONDUIT BACK TO NEAREST JUNCTION BOX.
- 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.
- 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.
- DENOTES KEYSWITCH 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.
- ELECTRICAL CONTRACTOR TO REMOVE CAN LIGHTS AND ASSOCIATED SWITCHES IN ROOM. ELECTRICAL CONTRACTOR TO BLANK OFF SWITCHES WITH COVER.
- 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 CALUX/GROUT AS THERE NOW ON FINISHES. COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT.
- 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.
- 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.
- 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.
- 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.



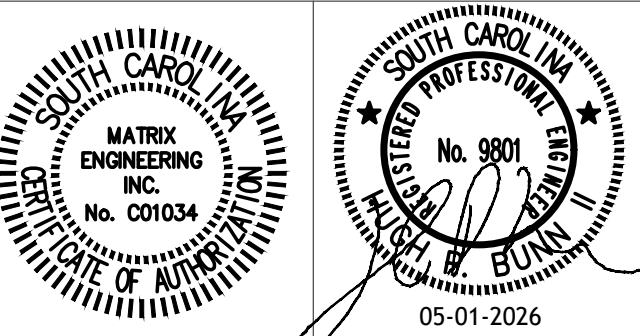
ENLARGED MECHANICAL ROOM DEMOLITION PLAN
SCALE: 1/8"=1'-0"

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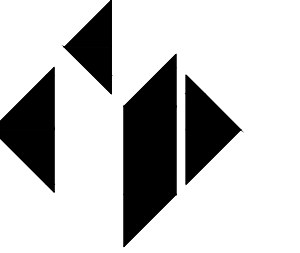
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864.583.6274
Project Number: 2026-007

ALTERATIONS & ADDITIONS

POWERS BUILDING A-WING

OSE PROJECT NO.
H59-6353-JM

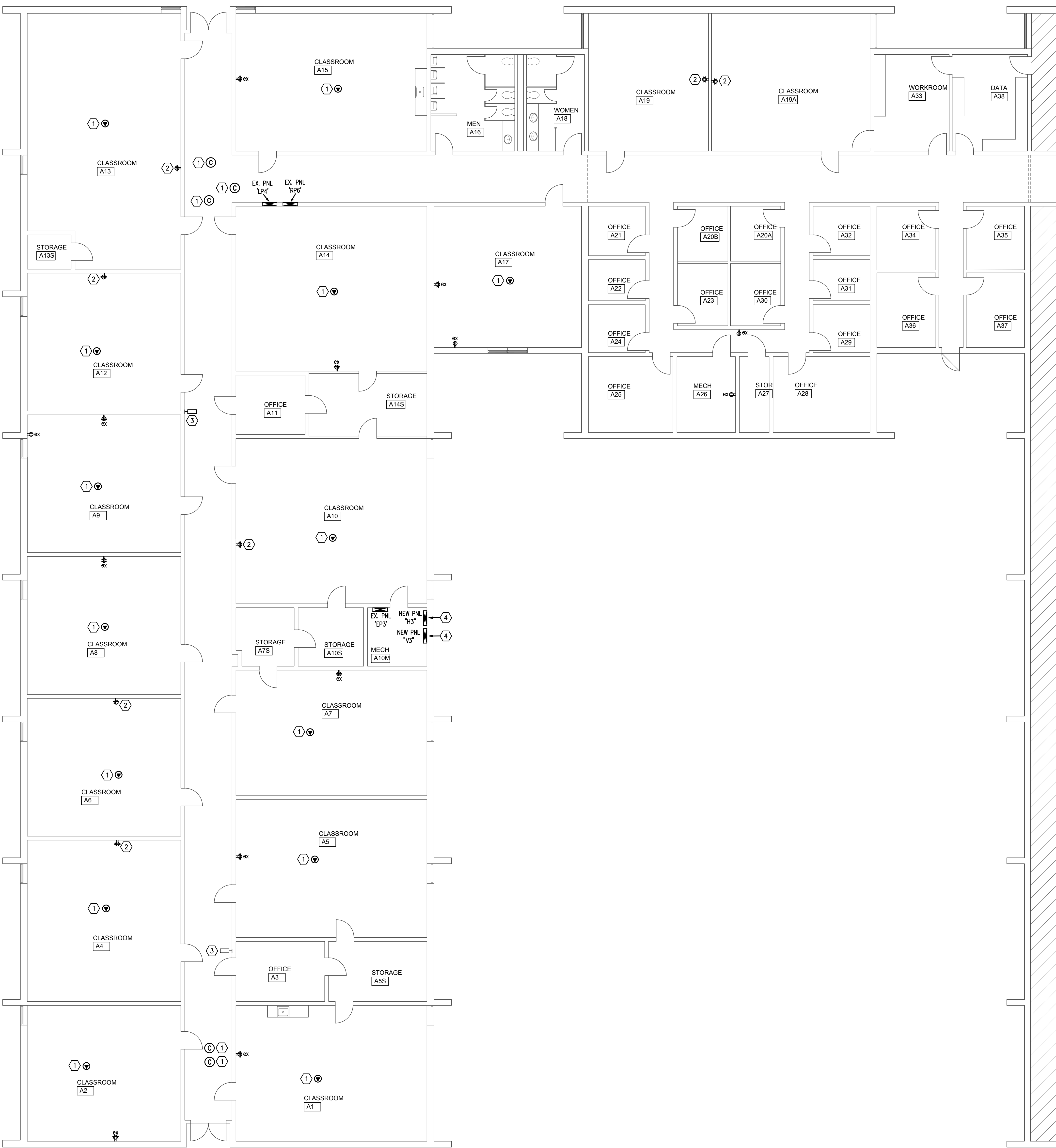
131 COMMUNITY COLLEGE DRIVE
SPARTANBURG, SC

MARK	DATE	DESCRIPTION
1	5/28/26	OSE Comments

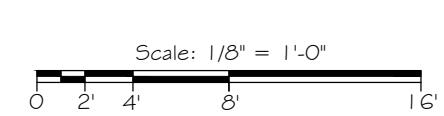
ISSUE:	CD
DATE:	5/01/26
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DRAWN BY:	NT
CHECKED BY:	HPB

DEMOLITION PLAN

ED101



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

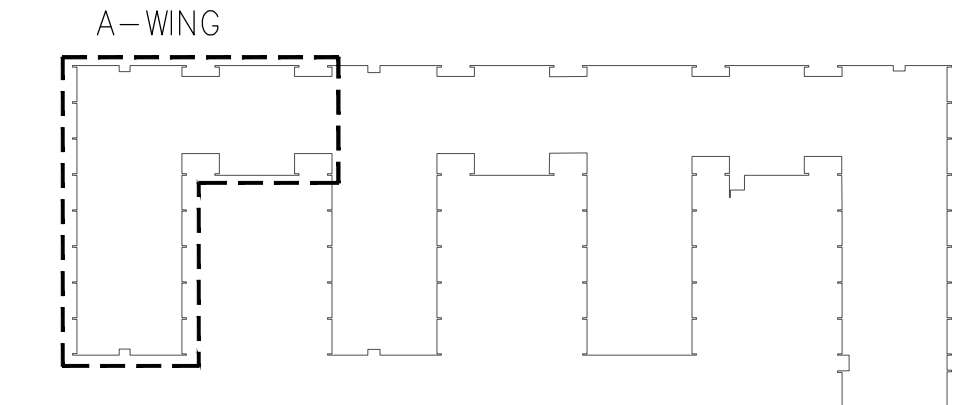


GENERAL POWER PLAN NOTES:

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.



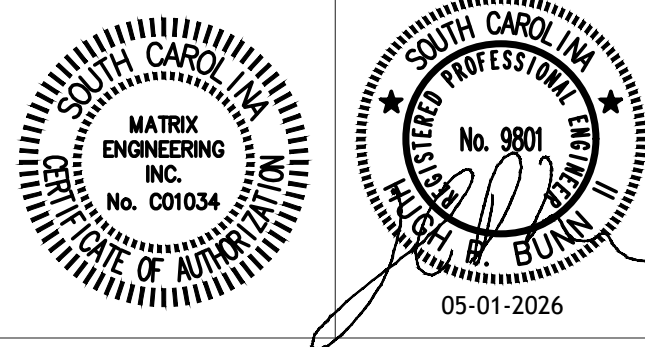
KEY PLAN

CRAIG GAULDEN DAVIS PBK

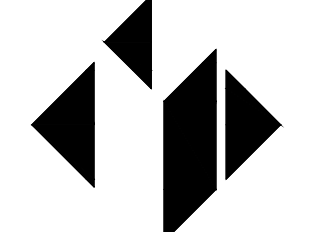
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CONSULTANT



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

POWER PLAN

E101



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 PLACES, 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 CEILING 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:

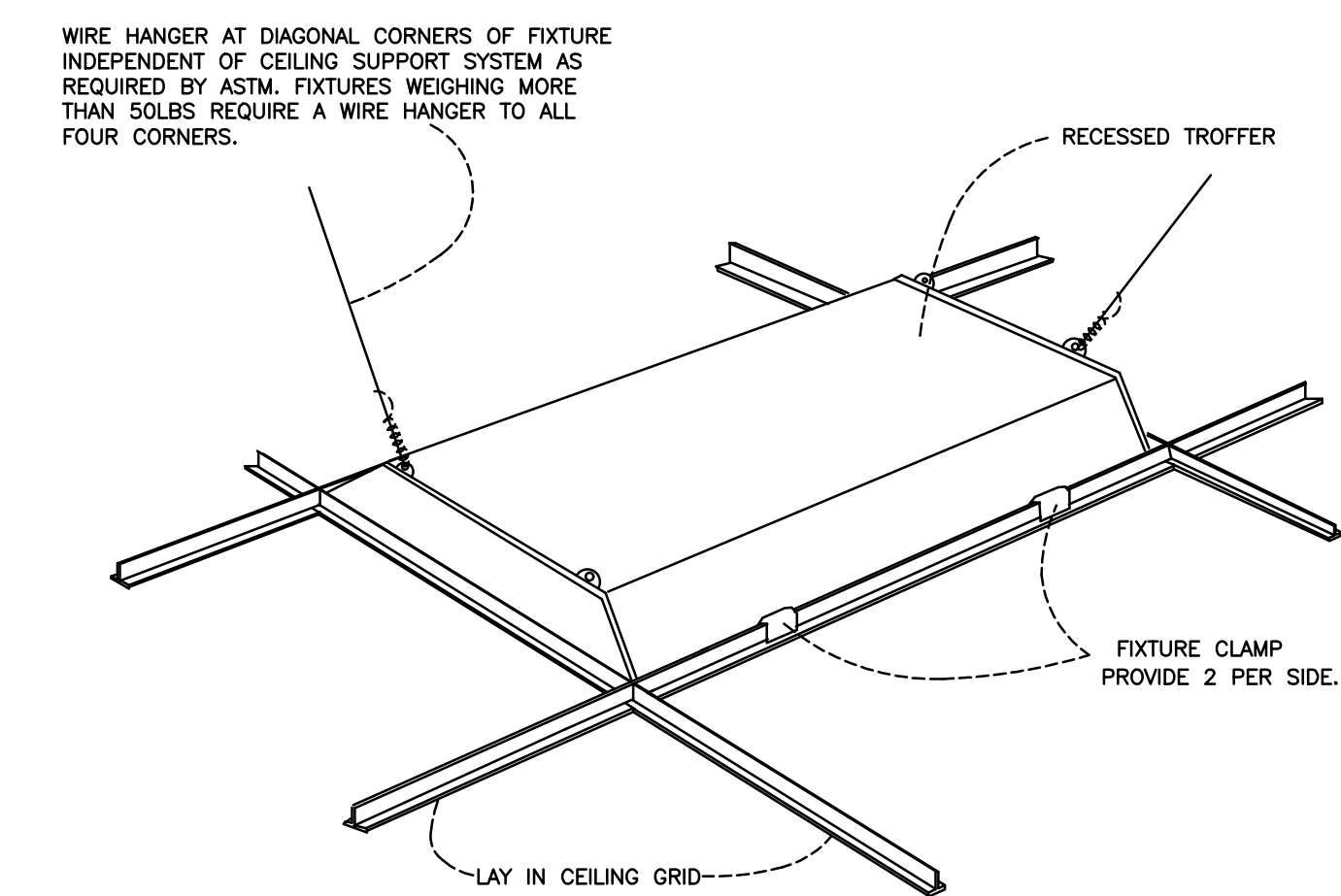
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SWITCH LEGEND

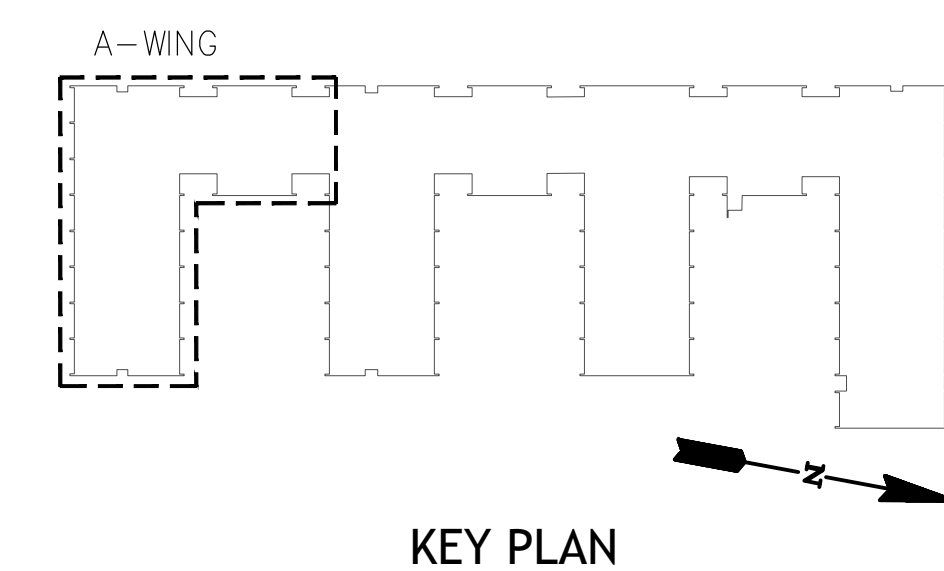
- S LOCAL TOGGLE SWITCH
S.P.S.T., 20A, SPEC GRADE
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20 AMP, SPEC GRADE.
- WS1 WALL MOUNTED OCCUPANCY SENSOR
HUBBELL CONTROL SOLUTIONS
CATALOG #LHMTS1-COLOR
- D 0-10V DIMMER SWITCH
LEVITON
CATALOG #P710-LFZ (OR EQUAL)
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OCCUPANCY SENSOR
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CATALOG #OMNI-DT-2000
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CATALOG #JVPF

OCCUPANCY SENSOR NOTES

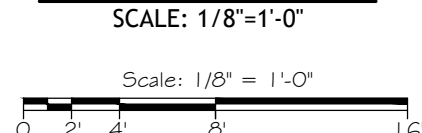
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3. ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT CONTROLLED.



TYPICAL RECESSED FIXTURE MOUNTING DETAIL
NO SCALE

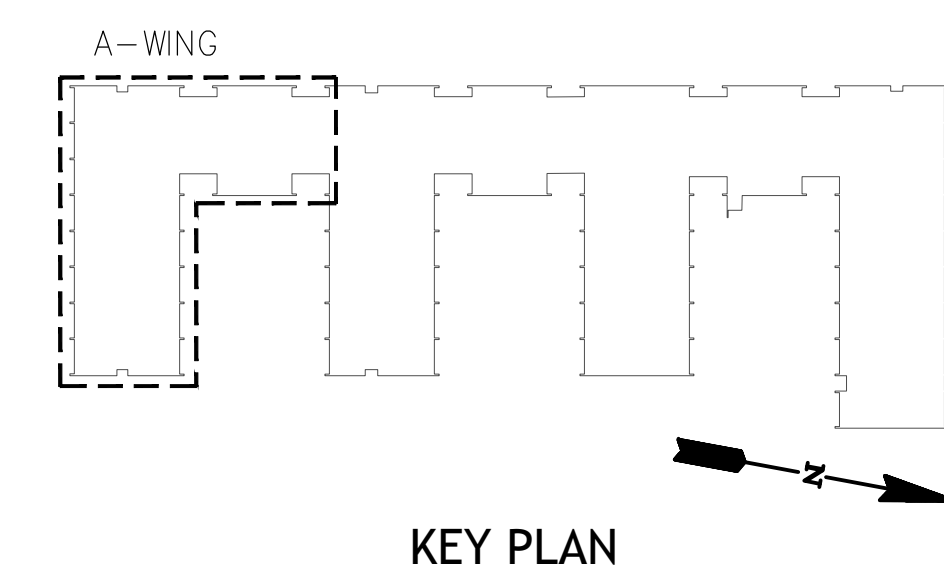


LIGHTING PLAN
SCALE: 1/8"=1'-0"

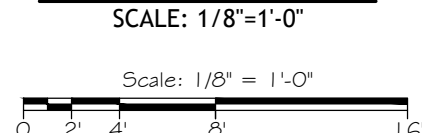


WIRE HANGER AT DIAGONAL CORNERS OF FIXTURE INDEPENDENT OF CEILING SUPPORT SYSTEM AS REQUIRED BY ASTM. FIXTURES WEIGHING MORE THAN 50LBS REQUIRE A WIRE HANGER TO ALL FOUR CORNERS.

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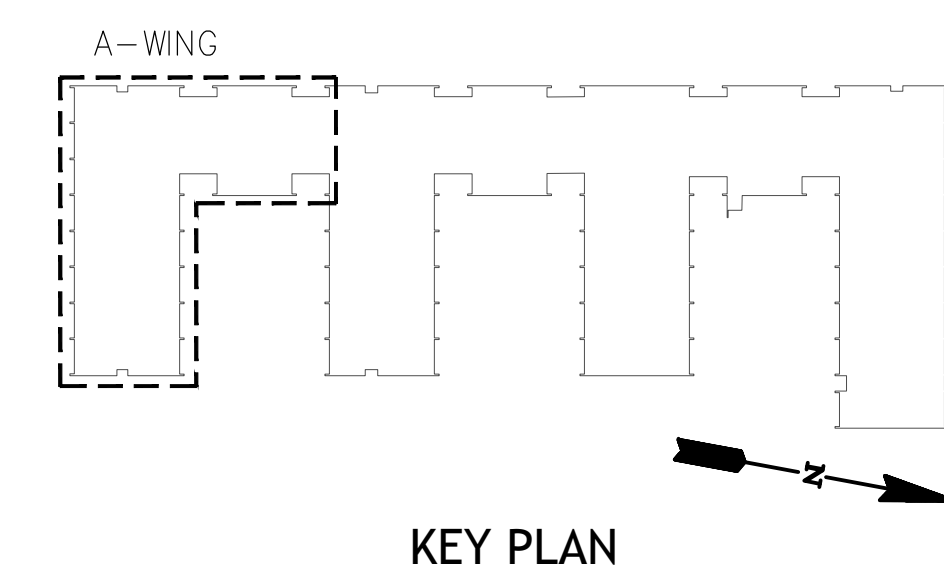


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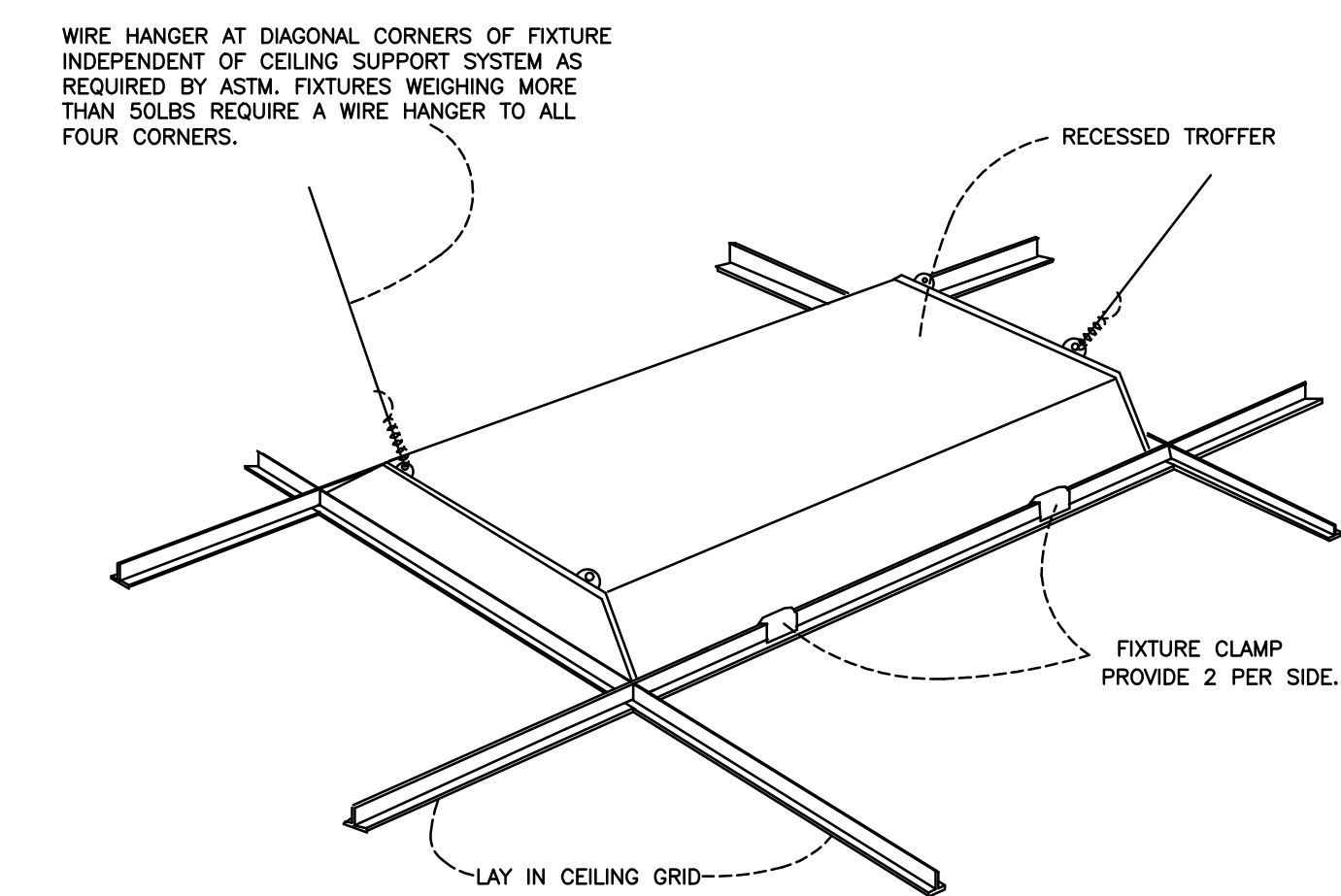
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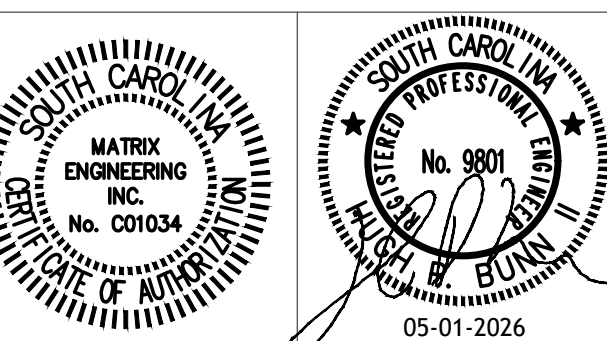
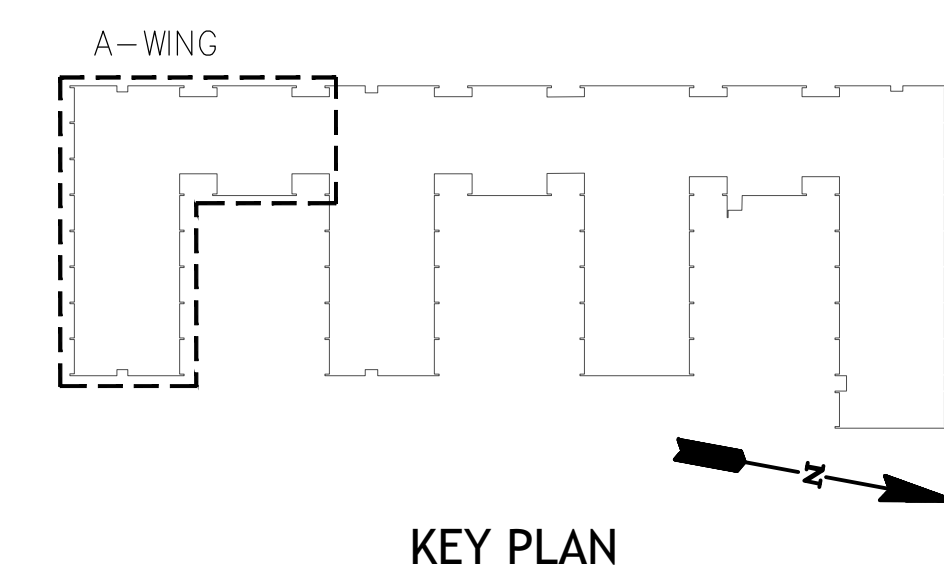
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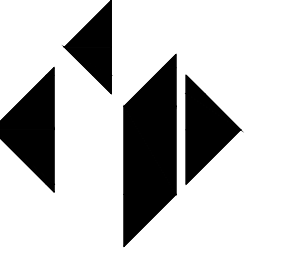
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TYPICAL RECESSED FIXTURE MOUNTING DETAIL
NO SCALE



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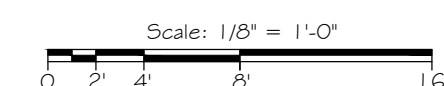
ISSUE: CD
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CHECKED BY: HPB

LIGHTING PLAN

E201



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

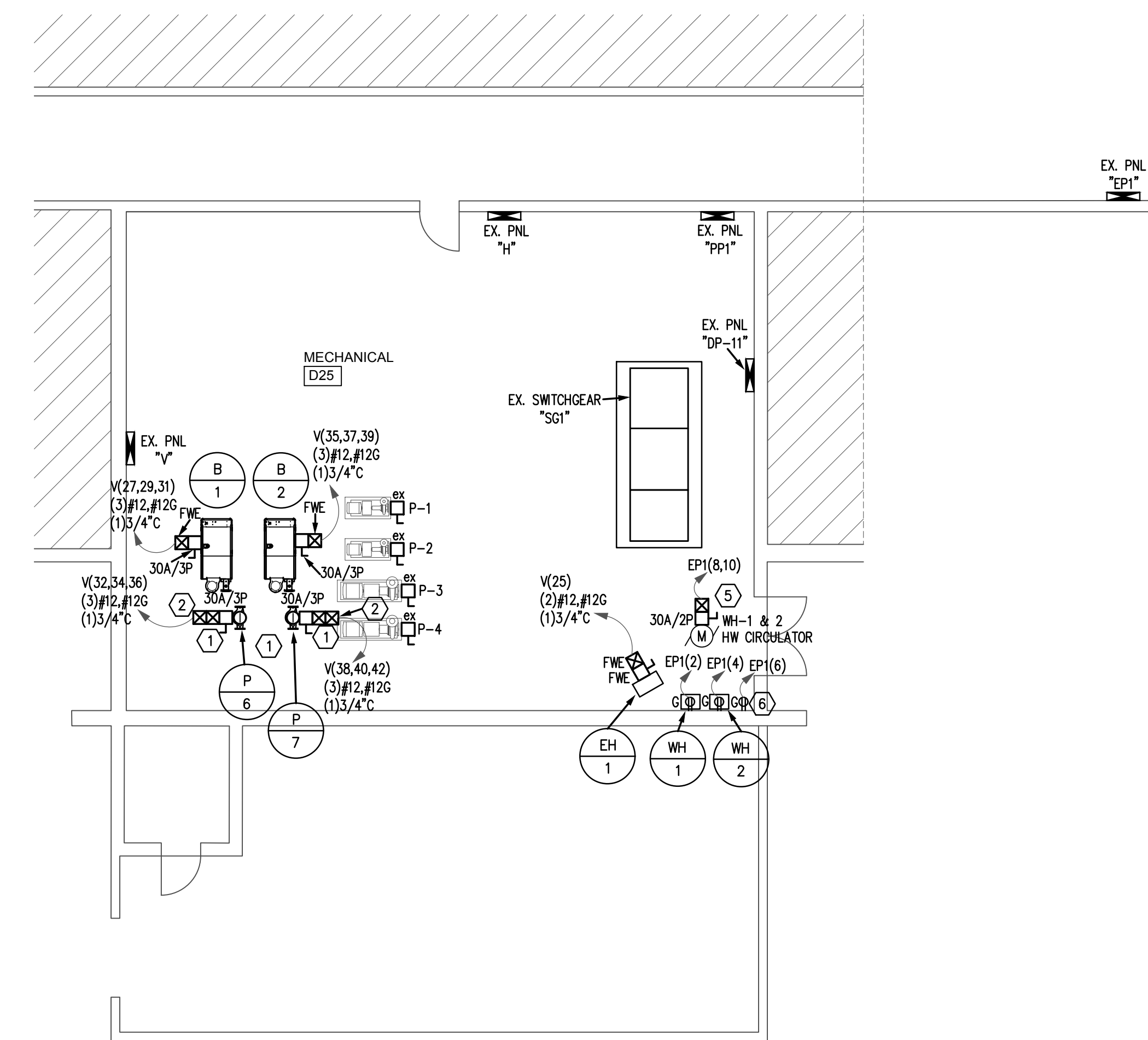


GENERAL MECHANICAL POWER PLAN NOTES:

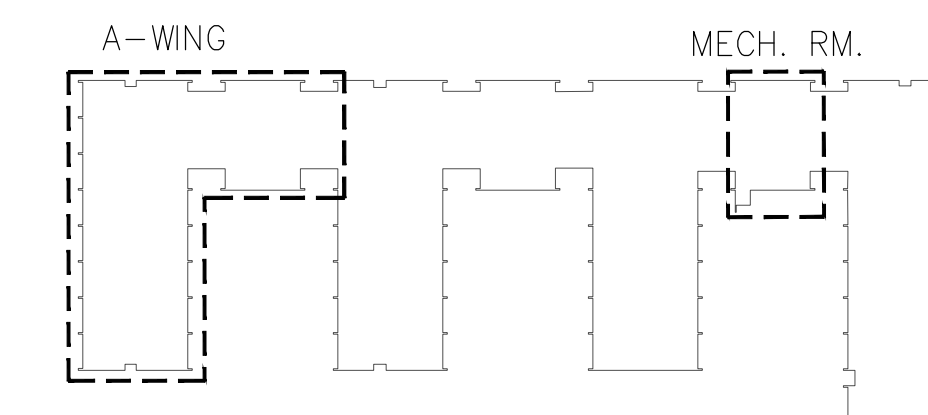
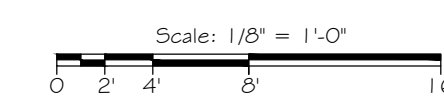
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2. VERIFY ALL ELECTRICAL REQUIREMENTS WITH NAMEPLATE DATA PRIOR TO PURCHASING AND INSTALLING WIRING, CONDUIT, CIRCUIT BREAKER AND DISCONNECT SWITCH.
3. DISCONNECT SWITCHES TO BE HEAVY-DUTY.
4. ALL CIRCUITS WIRED WITH (2)#12,#12G IN (1)3/4" CONDUIT 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, KINDOFF, 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 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 CONTRACTOR. 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"



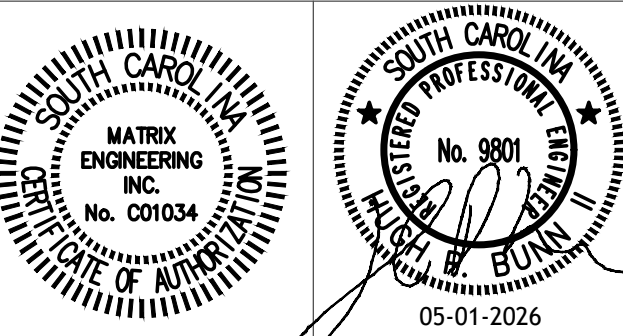
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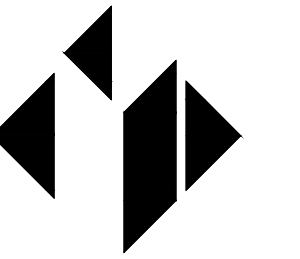
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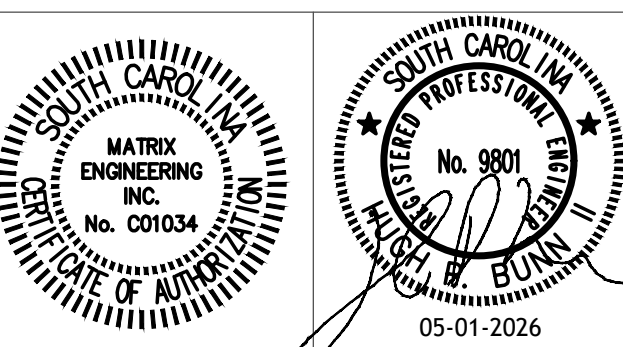
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MECHANICAL POWER PLAN

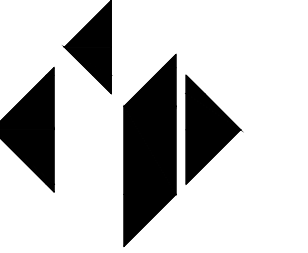
E301

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ROOF MECHANICAL POWER PLAN

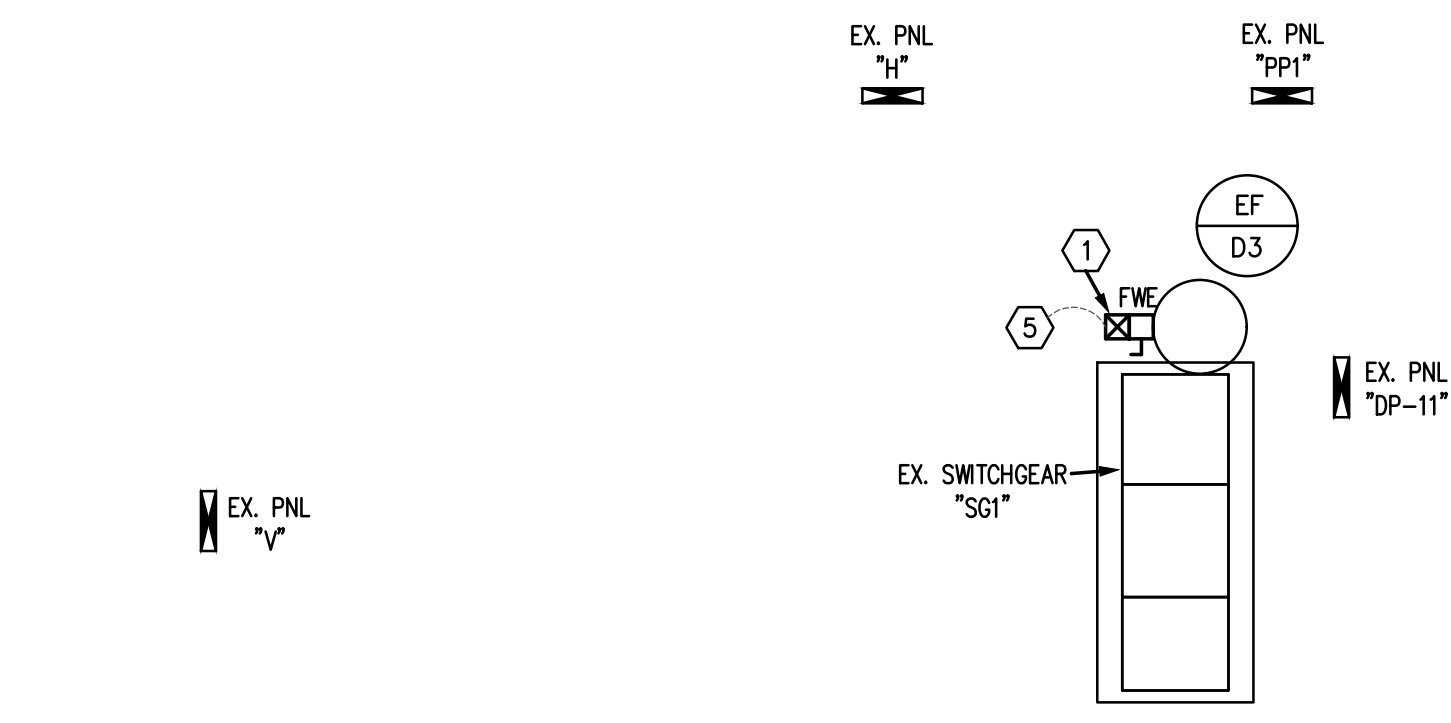
E401

GENERAL ROOF 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.

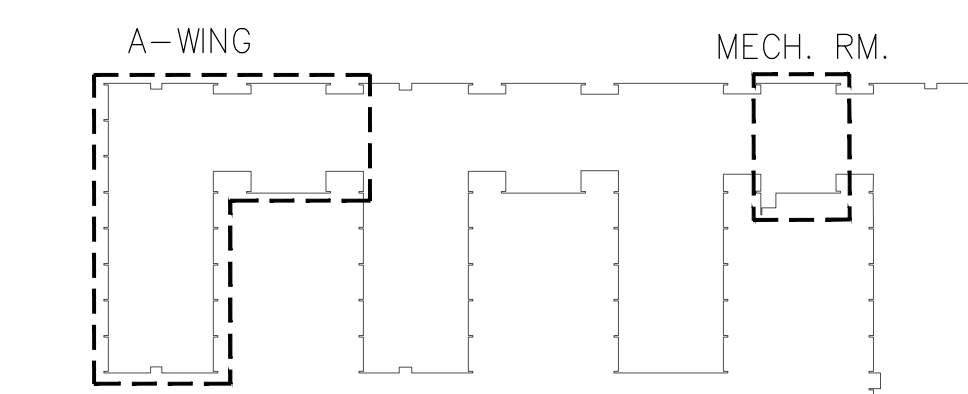
KEYED ROOF MECHANICAL POWER PLAN NOTES:

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 THERMOWIRE WRAP FOR FREEZE PROTECTION OF CHILLED WATER PIPES ON ROOF. COORDINATE EXACT LOCATION FOR JUNCTION BOX WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLING.

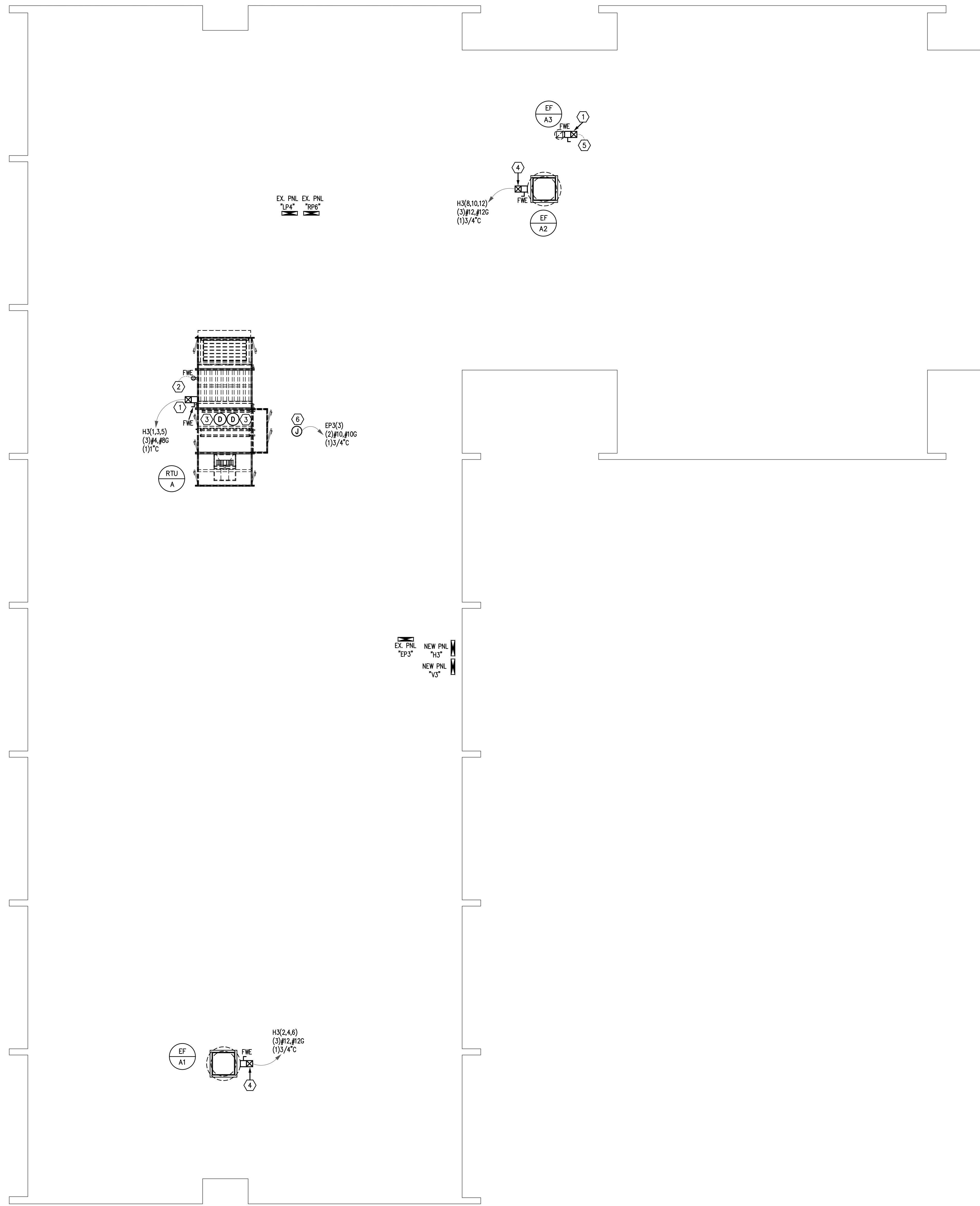


ROOF MECHANICAL POWER PLAN - MECHANICAL ROOM

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



KEY PLAN

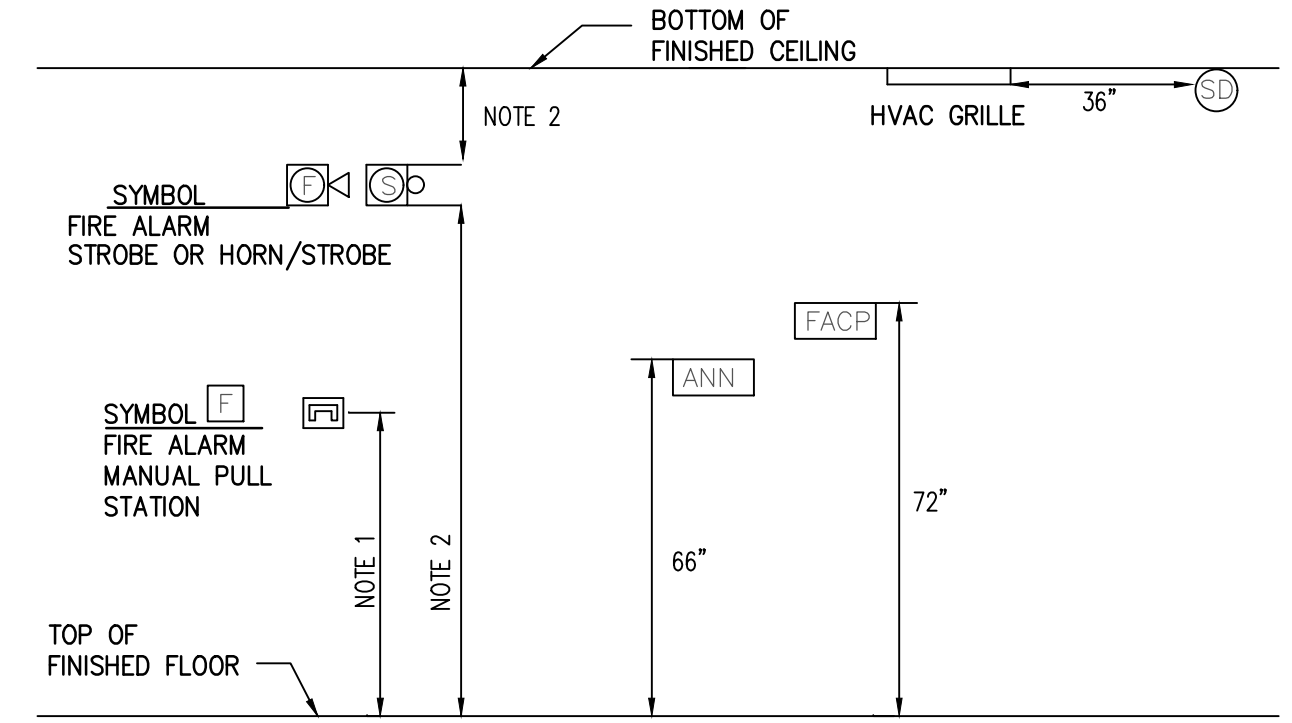


ROOF MECHANICAL POWER PLAN - "A" WING

SCALE: 1/8"=1'-0"
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FIRE ALARM LEGEND	
(SD)	SMOKE DETECTOR.
(F)	MANUAL FIRE ALARM PULL STATION.
(S)	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.



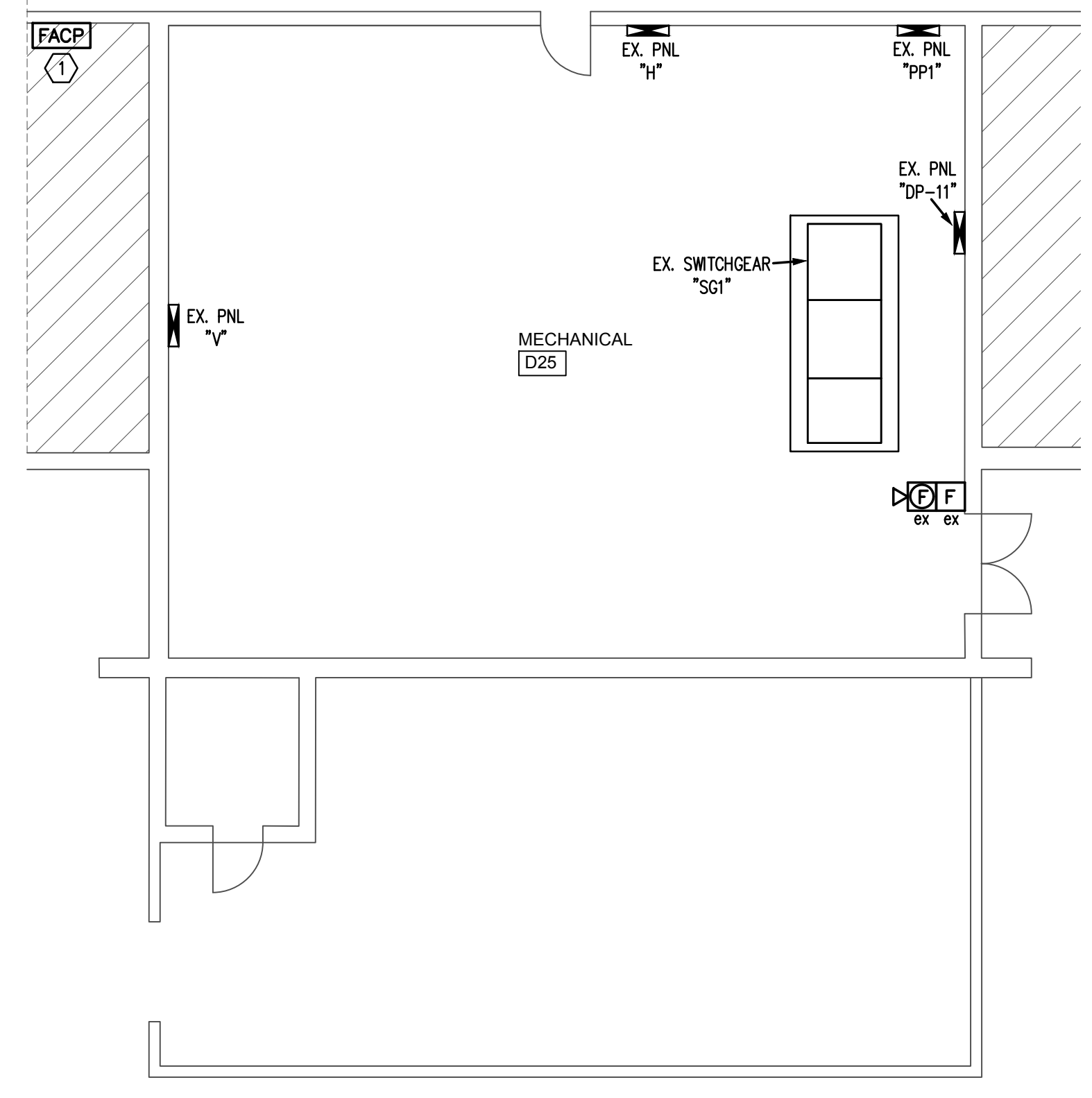
- MOUNTING NOTES:**
1. MOUNT PULL STATION 48" TO TOP OF BOX.
 2. MOUNT STROBE OR HORN/STROBE COMBINATION AT LEAST 80" OFF AND NOT MORE THAN 96" AFF. MOUNT DEVICE AT LEAST 6" DOWN FROM CEILING.
 3. MOUNTING HEIGHTS OF ELECTRICAL DEVICES TO MEET NFPA 72 AND ADA CODE REQUIREMENTS.

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 MECHANICAL CONTRACTOR.

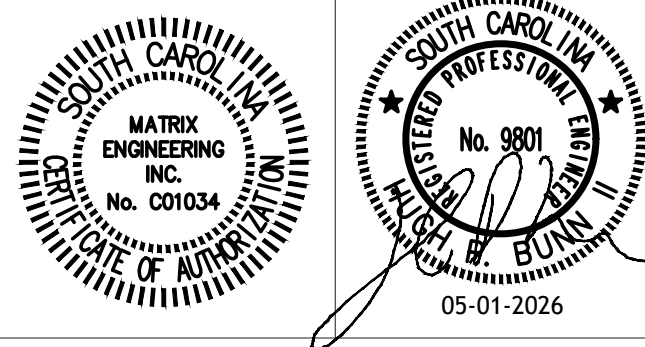


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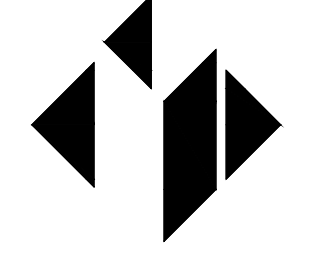
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CONSULTANT



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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

FIRE ALARM PLAN

E501