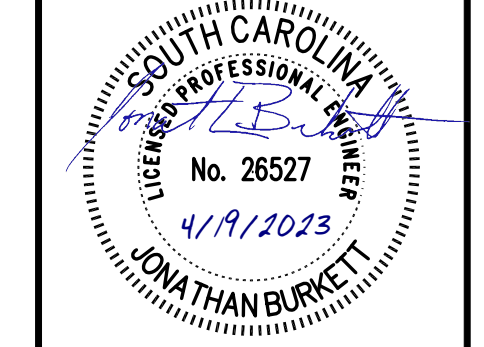


1 OVERALL FLOOR PLAN - HVAC
SCALE: 1" = 20'-0"

Project Engineer:	JEB
Drawn By:	JEB
Revisions:	
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date

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ROCK HILL SCHOOL DISTRICT 3
 LESSLIE ELEMENTARY SCHOOL HVAC
 REPLACEMENT
 OVERALL FLOOR PLAN - HVAC

Project
 Sheet Title

Buford Goff & Associates, Inc.
 Engineers & Planners
 1331 Elmwood Ave.
 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302

Sheet Number:
M100

Date: 04-19-2023
 Scale: As Noted
 BGA PROJECT NUMBER: 22158
 CONSTRUCTION DOCUMENTS

TEST AND BALANCE

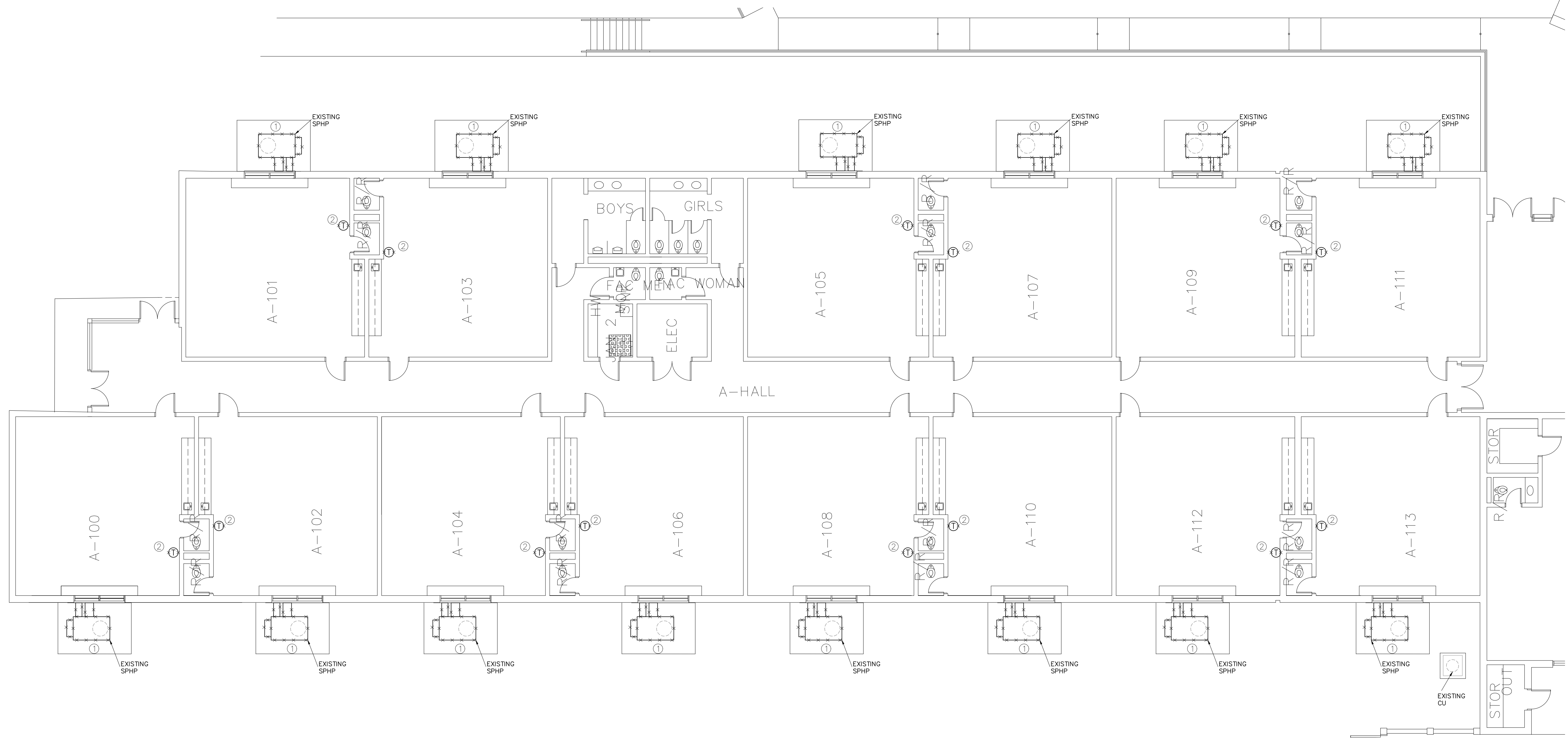
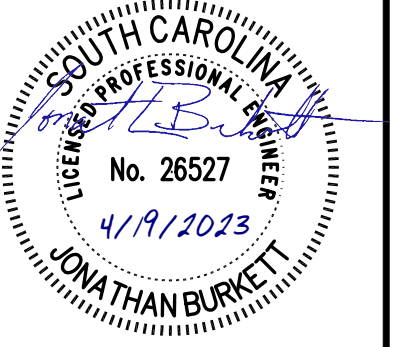
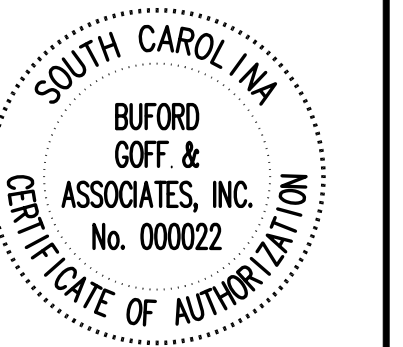
1. PRIOR TO DEMOLITION MEASURE SPHP SUPPLY AND RETURN AIR AIRFLOW.
2. SUBMIT PREDEMOLITION TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW.

HVAC DEMOLITION KEY NOTES

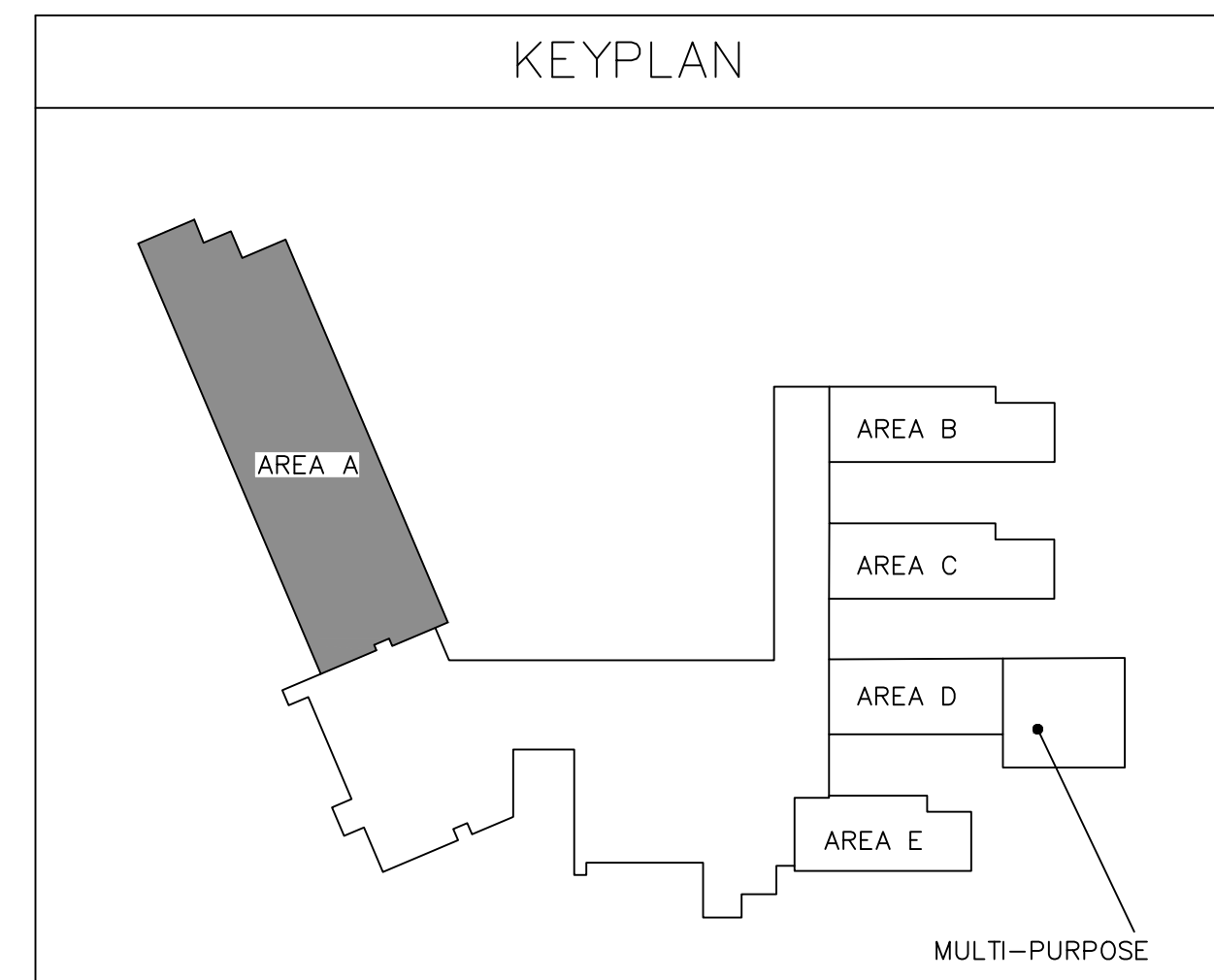
1. DEMOLISH EXISTING PACKAGED UNITS ON GRADE. DEMOLISH DUCTWORK BACK TO EXISTING WALL. DEMOLISH UTILITIES AS REQUIRED TO INSTALL THE NEW UNITS. EXISTING PADS TO REMAIN.
2. DEMOLISH EXISTING T-STAT. REUSE WIREMOLD IF POSSIBLE.

Project Engineer:	JEB
Drawn By:	JEB
Revisions:	
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____

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1 PARTIAL FLOOR PLAN AREA A - HVAC DEMOLITION
 SCALE: 1/8" = 1'-0"



Project: ROCK HILL SCHOOL DISTRICT 3
 LESSLIE ELEMENTARY SCHOOL HVAC REPLACEMENT
 Sheet Title: PARTIAL FLOOR PLAN - AREA A - HVAC DEMOLITION

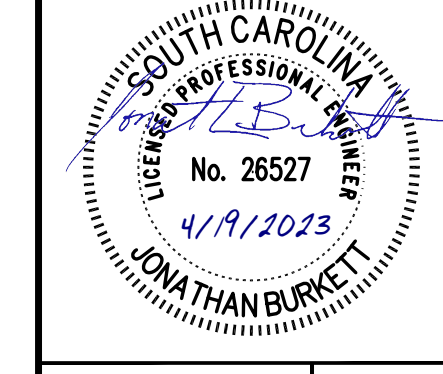
Buford Goff & Associates, Inc.
 Engineers & Planners
 1331 Elmwood Ave.
 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302

Sheet Number:
M101

Date: 04-19-2023
 Scale: As Noted
 BGA PROJECT NUMBER: 22158
 CONSTRUCTION DOCUMENTS

Project Engineer:	JEB
Drawn By:	JEB
Revisions:	
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____

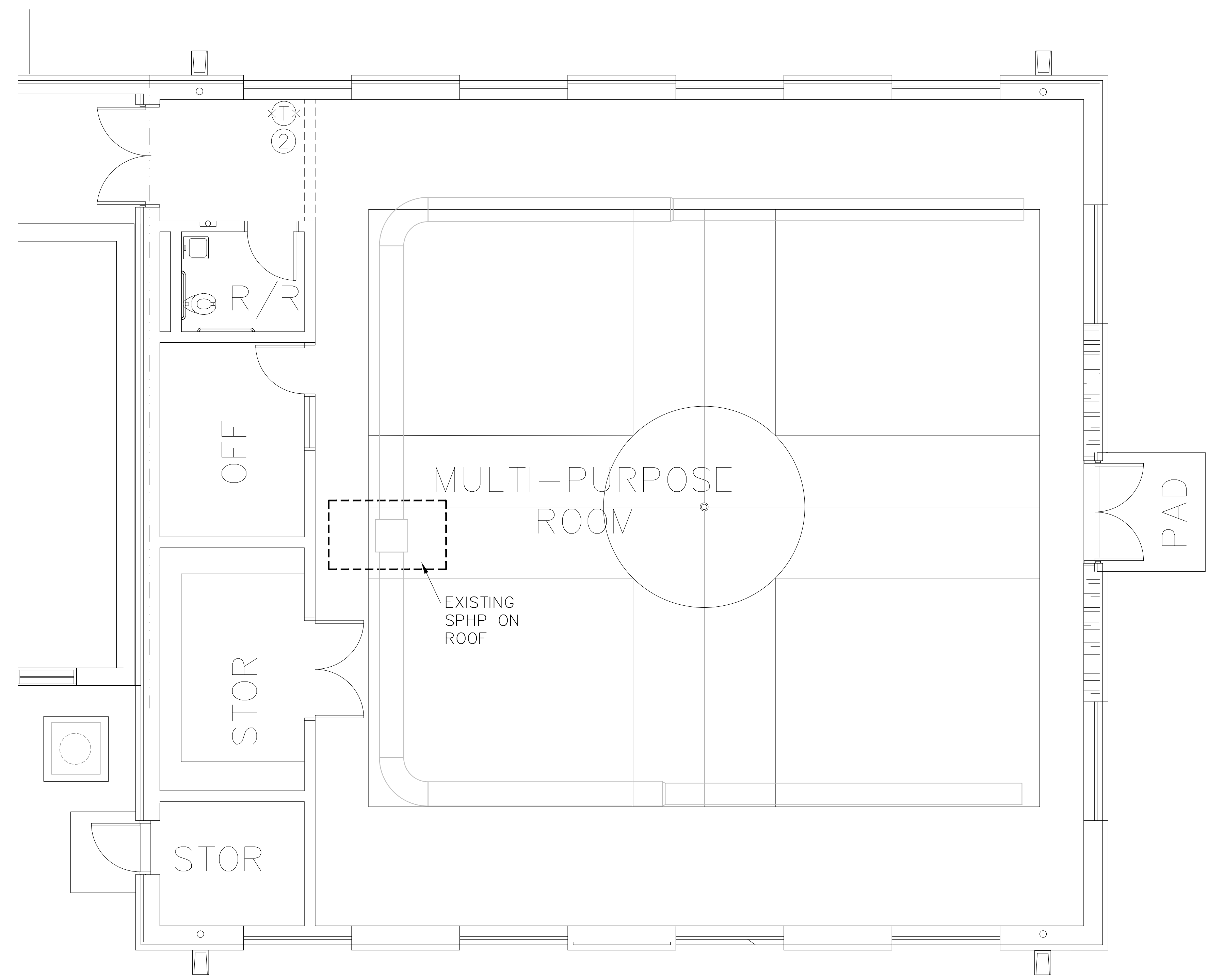
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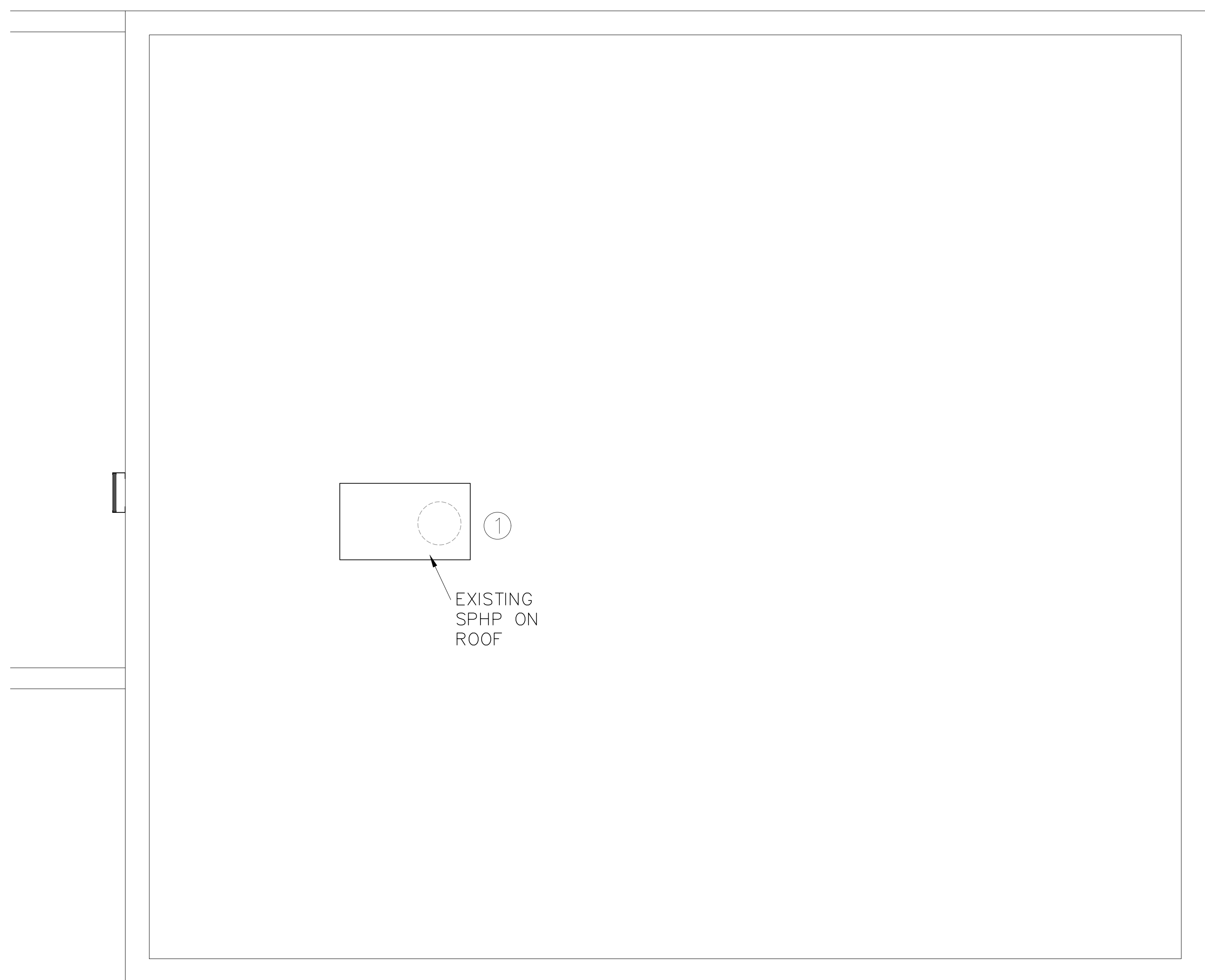
Project: ROCK HILL SCHOOL DISTRICT 3
 LESSLIE ELEMENTARY SCHOOL HVAC REPLACEMENT
 Sheet Title: MULTI-PURPOSE ROOM FLOOR PLAN AND ROOF PLAN - HVAC DEMOLITION

Buford Goff & Associates, Inc.
 Engineers & Planners
 1331 Elmwood Ave.
 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302

Sheet Number: **M102**
 Date: 04-19-2023
 Scale: As Noted
 BGA PROJECT NUMBER: 22158
 CONSTRUCTION DOCUMENTS



1
 M102 PARTIAL FLOOR PLAN - HVAC RENOVATION
 SCALE: 1/8" = 1'-0"



2
 M102 PARTIAL ROOF PLAN - HVAC DEMOLITION
 SCALE: 1/8" = 1'-0"

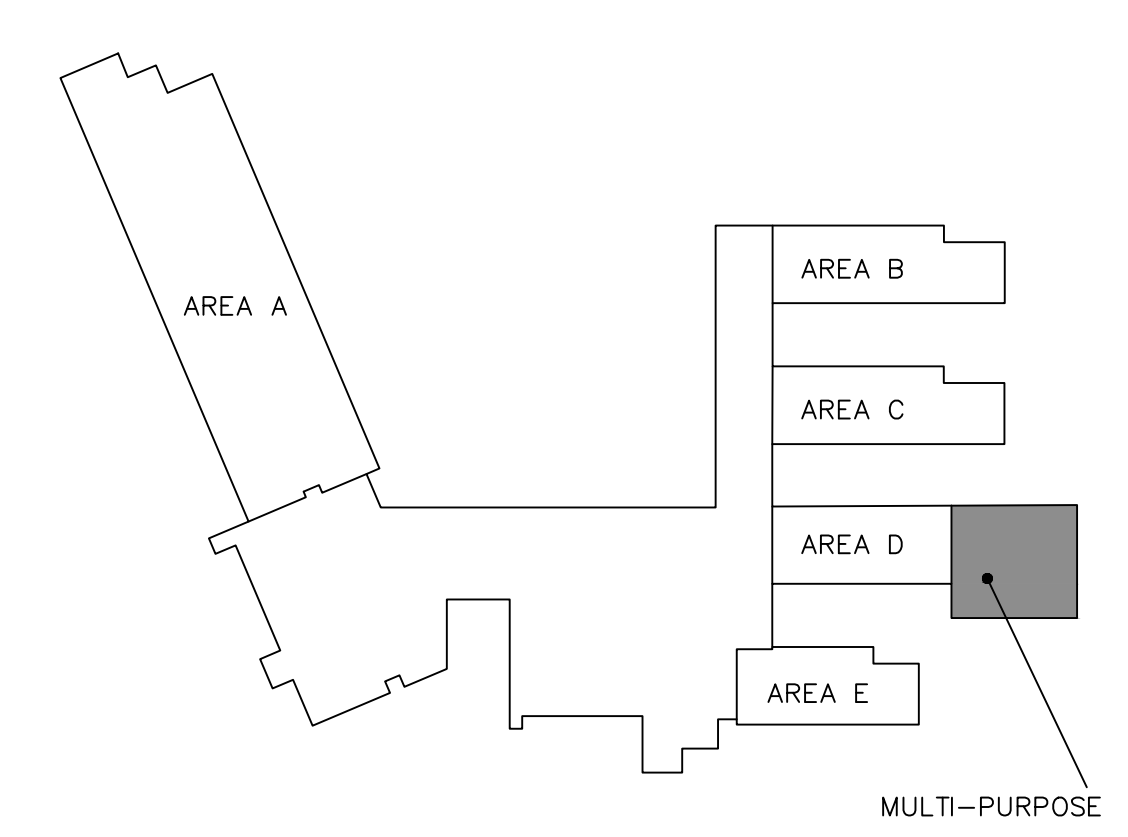
HVAC DEMOLITION KEY NOTES

- DEMOLISH EXISTING SPHP ON ROOF. VIBRATION ISOLATION CURB TO REMAIN.
- DEMOLISH EXISTING T-STAT. REUSE WIREMOLD IF POSSIBLE.

TEST AND BALANCE

- PRIOR TO DEMOLITION MEASURE EXISTING SPHP SUPPLY AND RETURN AIR AIRFLOW.
- SUBMIT PREDEMOLITION TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW.

KEYPLAN

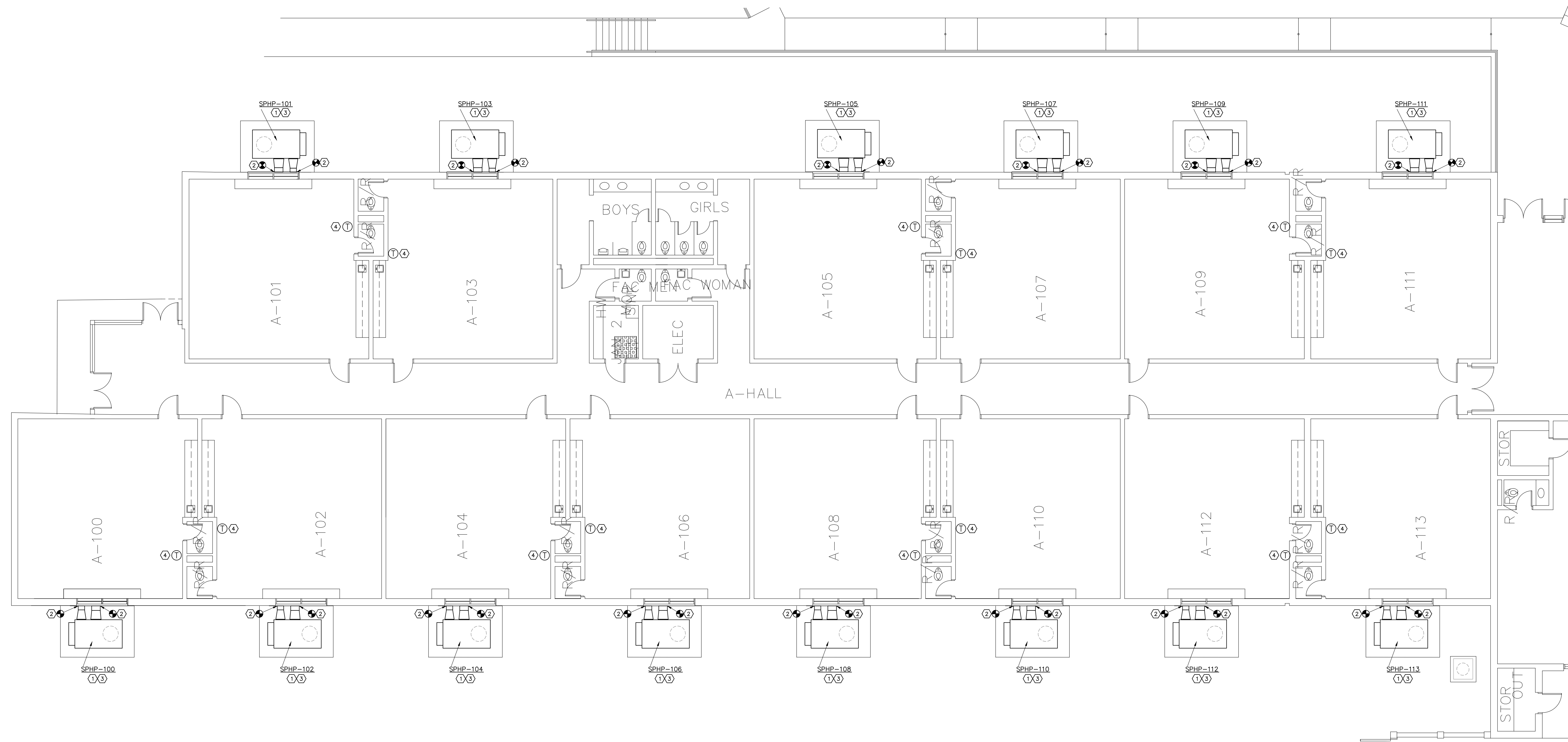
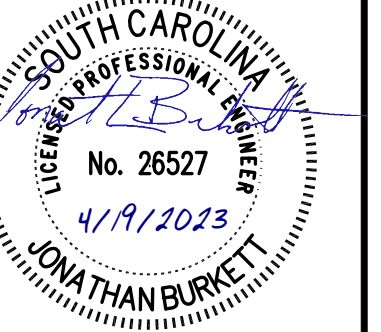
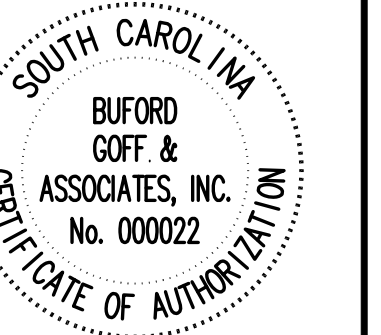


HVAC RENOVATION KEY NOTES

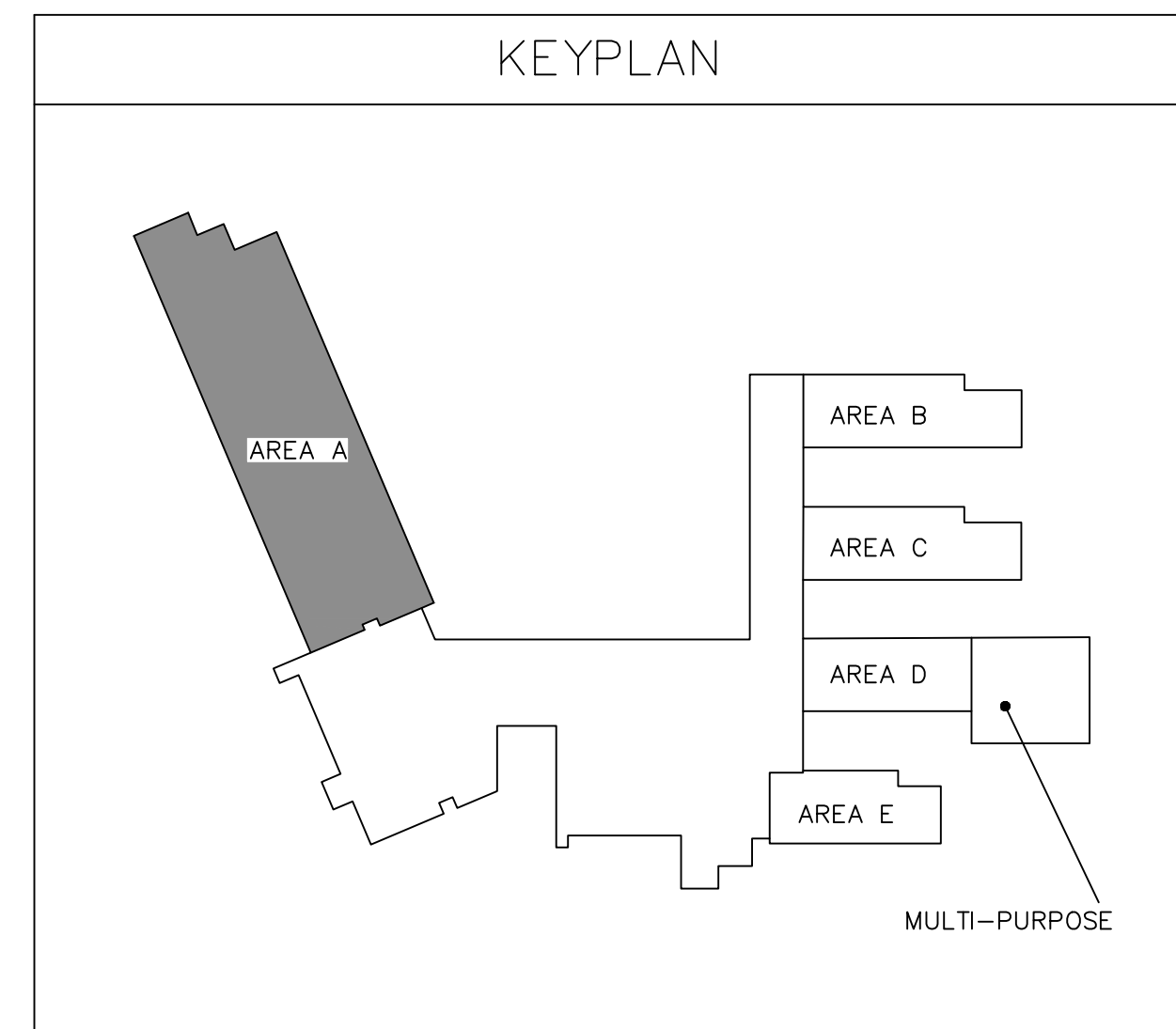
1. INSTALL NEW SPHP ON NEW ELEVATED PADS.
2. DUAL WALL SUPPLY AND RETURN DUCTWORK ON THE EXTERIOR. CONNECT DUCTWORK TO EXISTING DUCTWORK
3. ROUTE CONDENSATE DRAIN LINE TO DRYWELL. SEE DETAIL.
4. PROVIDE NEW T-STAT IN SAME LOCATION AS EXISTING. FIELD VERIFY EXACT LOCATION.

Project Engineer:	JEB
Drawn By:	JEB
Revisions:	
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date

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1 PARTIAL FLOOR PLAN AREA A - HVAC RENOVATION
 SCALE: 1/8" = 1'-0"



Project: ROCK HILL SCHOOL DISTRICT 3
 LESSLIE ELEMENTARY SCHOOL HVAC REPLACEMENT
 Sheet Title: PARTIAL FLOOR PLAN - AREA A - HVAC RENOVATION

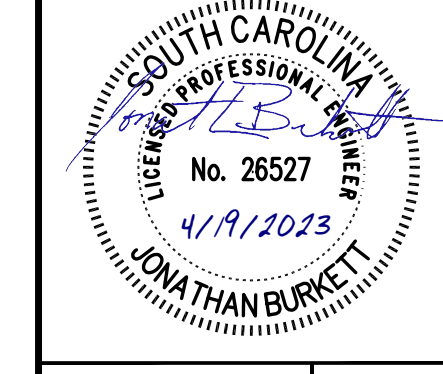
Buford Goff & Associates, Inc.
 Engineers & Planners
 1331 Elmwood Ave.
 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302

Sheet Number:
M103

Date: 04-19-2023
 Scale: As Noted
 BGA PROJECT NUMBER: 22158
 CONSTRUCTION DOCUMENTS

Project Engineer:	JEB
Drawn By:	JEB
Revisions:	
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____

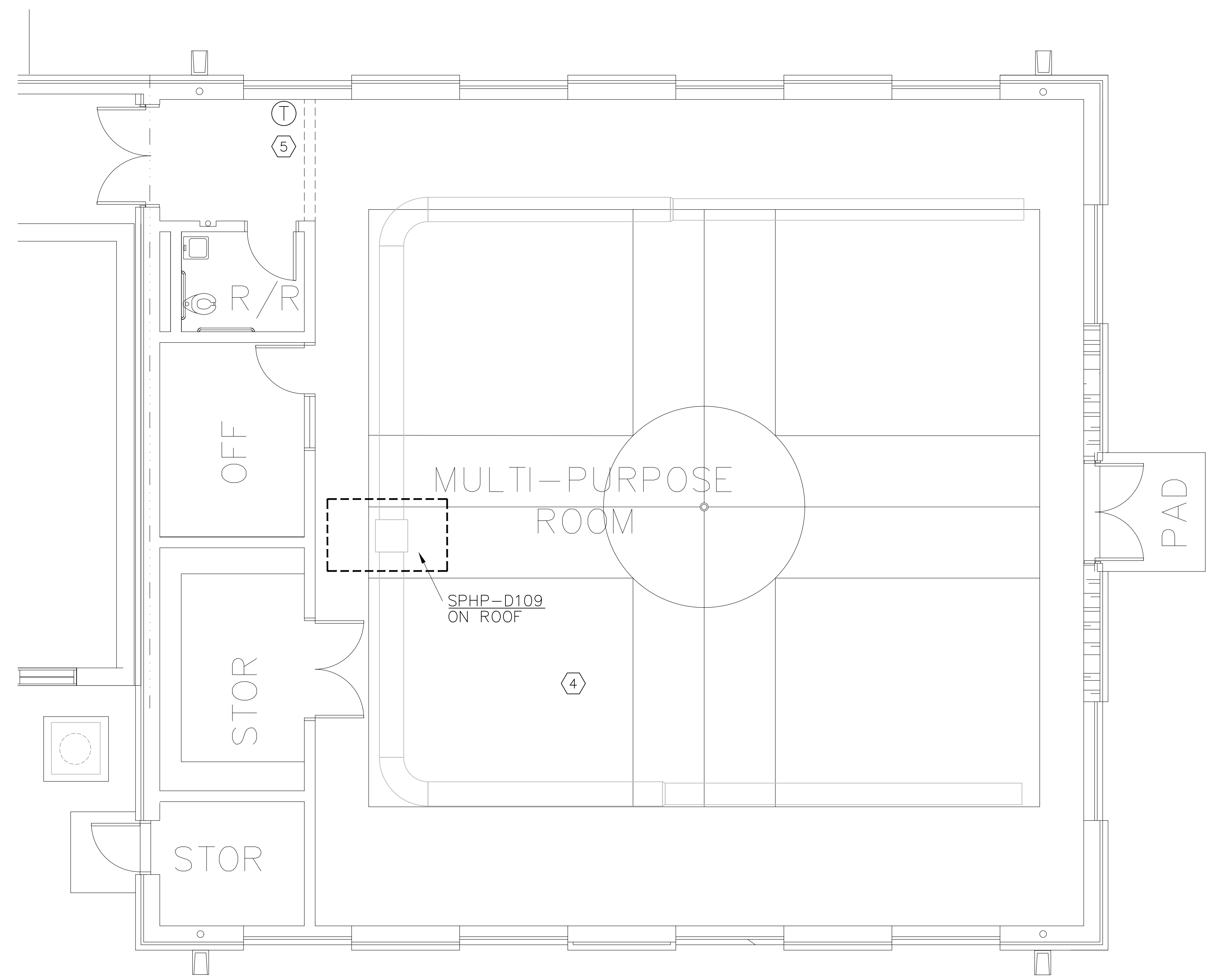
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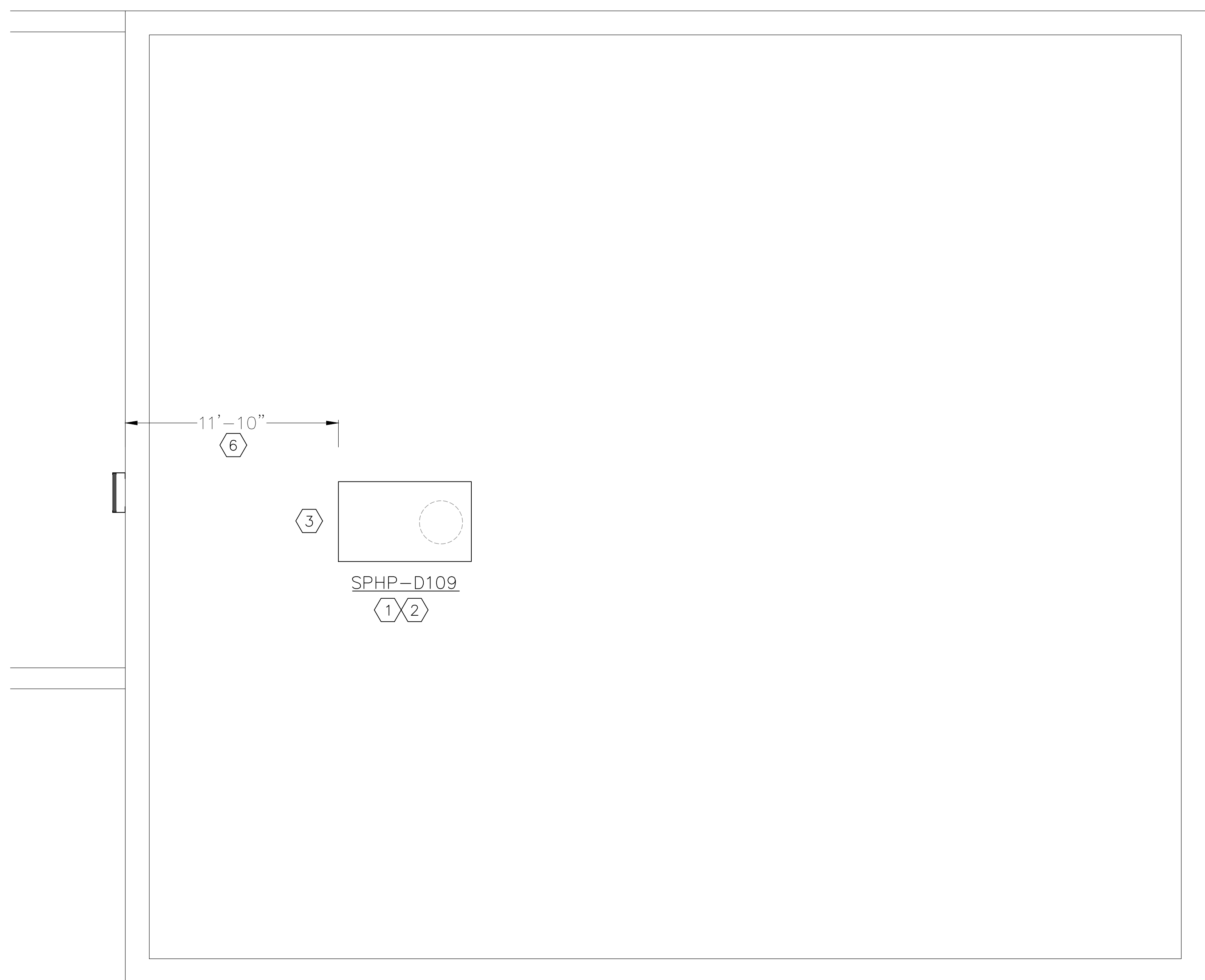
Project: **ROCK HILL SCHOOL DISTRICT 3
 LESSLIE ELEMENTARY SCHOOL HVAC
 REPLACEMENT**
 Sheet Title: **MULTI-PURPOSE ROOM FLOOR PLAN AND ROOF PLAN - HVAC RENOVATION**

Buford Goff & Associates, Inc.
 Engineers & Planners
 1331 Elmwood Ave.
 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302

Sheet Number: **M104**
 Date: 04-19-2023
 Scale: As Noted
 BGA PROJECT NUMBER: 22158
 CONSTRUCTION DOCUMENTS

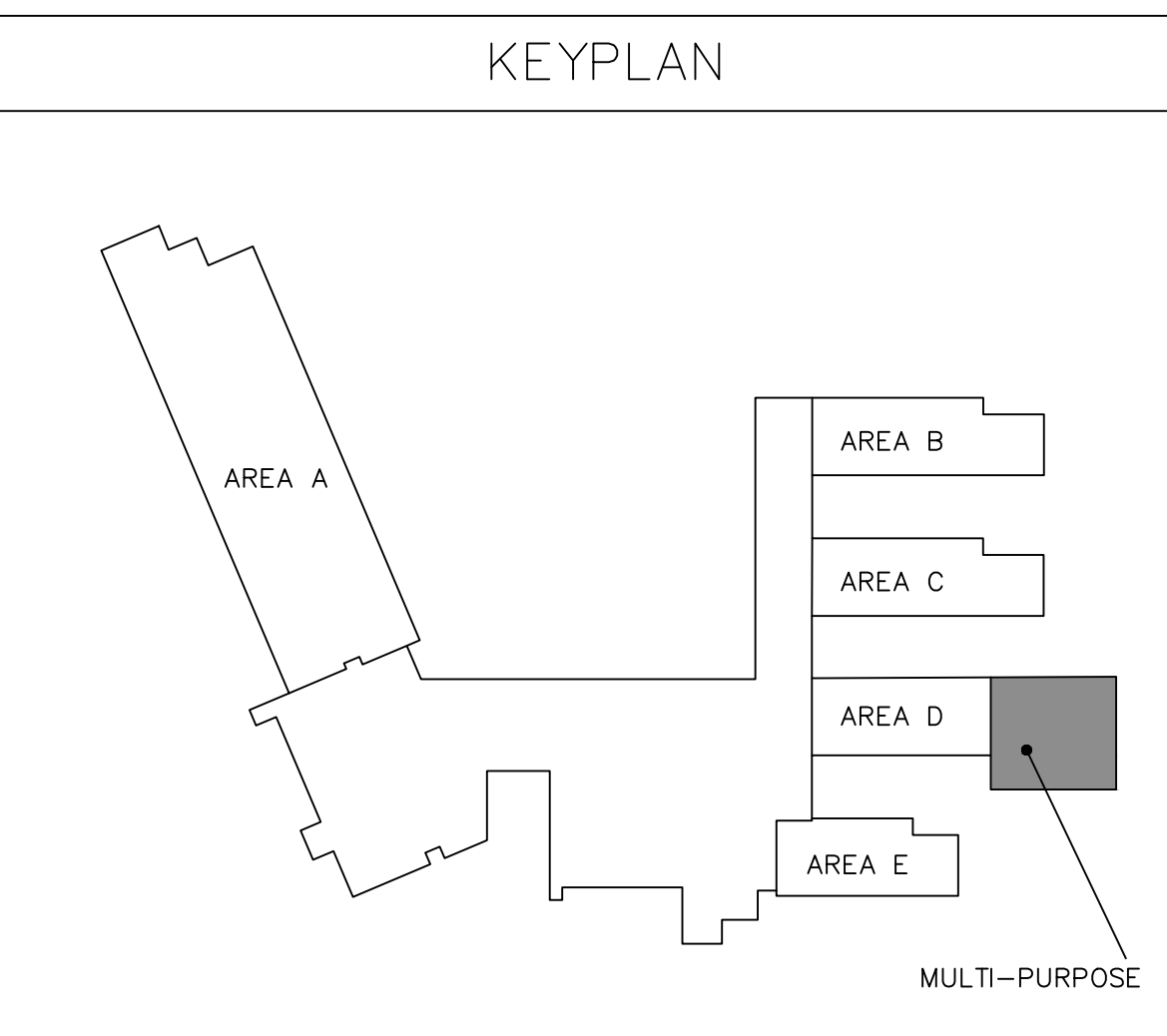


1
 M104 **PARTIAL FLOOR PLAN - HVAC RENOVATION**
 SCALE: 1/8" = 1'-0"



2
 M104 **PARTIAL ROOF PLAN - HVAC RENOVATION**
 SCALE: 1/8" = 1'-0"

- # HVAC RENOVATION KEY NOTES**
1. INSTALL NEW SPHP-D109 ON EXISTING VIBRATION ISOLATION CURB. PROVIDE ADAPTER CURB AS REQUIRED. RECONNECT SUPPLY AND RETURN DUCTWORK TO EXISTING.
 2. ROUTE CONDENSATE TO NEAREST ROOF DRAIN.
 3. OUTSIDE AIR INTAKE. NO VENTS OR EXHAUST WITHIN 10 FEET.
 4. CONTRACTOR TO REBALANCE EXISTING DUCTWORK TO PREDEMOLITION CFMS.
 5. PROVIDE NEW T-STAY IN SAME LOCATION AS EXISTING. FIELD VERIFY EXACT LOCATION.
 6. LOCATE UNIT NO CLOSER THAN 11' TO THE EDGE OF THE ROOF. COORDINATE WITH ADAPTER CURB MANUFACTURER.



- MECHANICAL GENERAL NOTES**
- DO NOT SCALE DRAWINGS. (SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS)(FIELD VERIFY EXISTING CONDITIONS) OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
 - EXTEND ALL DRAIN LINES TO NEAREST GUTTER ON ROOF OR AS INDICATED ON PLANS. CONDENSATE DRAINS SHALL BE TRAPPED. ROUTE TO MINIMIZE TRIPPING HAZARD. PROVIDE CLEANOUTS AT ALL CHANGES OF DIRECTION GREATER THAN 90 DEGREES.
 - ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS, AND PARTITIONS EXCEPT WHERE PROHIBITED BY FIRE CODES.
 - LOCATE ALL THERMOSTATS, HUMIDISTATS AND SWITCHES 48"(TO TOP OF DEVICE) ABOVE FINISH FLOOR.
 - ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. HANGERS SHALL BE ADJACENT TO ELBOWS AND AT EQUIPMENT TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT. SUPPORT DETAILS SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER.
 - ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
 - AIR DISTRIBUTION SYSTEMS WITH MORE THAN ONE BRANCH, OR MULTIPLE OUTLETS ON A BRANCH, SHALL HAVE VOLUME DAMPERS TO BALANCE AIR FLOWS. SPIN IN FITTINGS ARE PERMITTED FOR CONNECTING FLEX DUCT TO BRANCH OR TRUNK DUCTS WHERE FLEX DUCTS ARE INDICATED. IF FLEX DUCT CANNOT BE CONNECTED WITH A SPIN IN, A HARD DUCTED TAKEOFF MUST BE PROVIDED.
 - 45 DEGREE TAKEOFFS SHALL BE USED ON ALL HARD DUCTED SUPPLY BRANCHES.
 - ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THRU EXTERIOR WALLS AND ROOFS SHALL BE FLASHED AND COUNTERFLASHED.
 - PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCT, DUCT HEATERS, AIR VOLUME CONTROLLERS, AIR HANDLING UNITS, FANS, AND ALL OTHER EQUIPMENT AND APPURTENANCES.
 - PROVIDE INSULATED BLANK-OFF PANEL FOR ALL UNUSED PORTION OF LOUVER (WHICH HAVE MECHANICAL DUCT CONNECTIONS)
 - ALL TRANSFER DUCTS SHALL BE LINED WITH ONE INCH ACOUSTICAL LINER.
 - ALL DUCTS SERVING THE THEATRE, STAGE, 2ND STAGE AND LOBBY SHALL BE LINED WITH 2 INCH ACOUSTICAL LINER.
 - ALL DUCT IS GALVANIZED SHEETMETAL EXCEPT AS NOTED.
 - DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
 - INTAKES FOR AIR HANDLING EQUIPMENT SHALL BE A MINIMUM OF FIFTEEN FEET AWAY FROM ANY EXHAUST OR VENT.
 - AIR DISTRIBUTION UNITS SHALL HAVE TRIM REQUIRED FOR FINISHED SERVICE.
 - ALL EQUIPMENT SHALL MEET THE PROJECT'S SEISMIC DESIGN AND WIND LOAD REQUIREMENTS.

S3951

SEISMIC AND WIND DESIGN CRITERIA	
SEISMIC DESIGN	
SEISMIC DESIGN CATEGORY (SDC): C	
RISK CATEGORY: III	
SPECTRAL RESPONSE COEFFICIENTS Sds: 0.255; Sd1: 0.144	
WIND DESIGN	
BASIC WIND SPEED: 120 MPH	
EXPOSURE CATEGORY: C	
RISK CATEGORY: III	

DUCT PRESSURE CLASSIFICATION			
DUCT	SYSTEM	PRESSURE	STATIC PRESSURE CLASS ("WG)
RETURN DUCT	ALL SYSTEM RETURNS	NEG	-2"
SUPPLY DUCT	ALL SYSTEM SUPPLY	POS	+2"

S3958

MECHANICAL SYMBOL LEGEND	
	SUPPLY OR OUTSIDE AIR GRILLE
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	DUCT TURNED TO
	DUCT TURNED AWAY
	DUCT CAPPED
	EQUIPMENT LOCATED ON ROOF
	INSIDE DUCT DIMENSION
	OPPOSED BLADE VOLUME DAMPER
	FIRE DAMPER (FUSIBLE LINK)
	120V POWER IN J-BOX
	MOTORIZED DAMPER
	CONCEALED REGULATOR
	POUNDS (OR NUMBER)
	FIRE ALARM CONTROL PANEL
	10" 10" ROUND DUCT (INSIDE DIM)
	BACS-1 BUILDING AUTOMATION CONTROL SYSTEM NO. 1
	S SWITCH
	T THERMOSTAT/SENSOR
	H HUMIDISTAT/HUMIDITY SENSOR
	FLEX CONNECTION (DUCT)
	FILTER SECTION
	DUCT SMOKE DETECTORS
	CONTROL WIRING
	ACCESS DOOR
	CLEANOUT
	AIR DISTRIBUTION (OTHER SYMBOLS SIM.)
	LS LIGHT SWITCH
	CO2 CO2 SENSOR

S3950

MECHANICAL ABBREVIATIONS			
ABV	ABOVE	IN	INCHES
AFF	ABOVE FINISH FLOOR	MOD	MOTOR OPERATED DAMPER
AFMS-1	AIRFLOW MEASURING STATION NO.1	MPS	MEDIUM PRESSURE STEAM (16 PSI TO 30 PSI)
BACS	BUILDING AUTOMATION CONTROL SYSTEM	NO	NORMALLY OPEN
BHP	BRAKE HORSE POWER	NC	NORMALLY CLOSED
BOD	BOTTOM OF DUCT	OC	ON CENTER
BOP	BOTTOM OF PIPE	ODAC-1	OUTDOOR AIR CONDITIONING UNIT NO.1
CEF-1	CEILING EXHAUST FAN NO. 1	ODHP-1	OUTDOOR HEAT PUMP NO.1
CFM	CUBIC FEET PER MINUTE	ODP	OPEN DRIP PROOF
CLG	CEILING	PD	PRESSURE DROP
CO	CLEAN OUT	PFD	PIPE TO FLOOR DRAIN
D	DRAIN	PH	PHASE
EF-1	EXHAUST FAN NO.1	REF.	REFRIGERANT LINES
EFF	EFFICIENCY	SF	SQUARE FOOT
ELECT	ELECTRICAL	SP	STATIC PRESSURE SENSOR
ESP	EXTERNAL STATIC PRESSURE	SPAC-1	SINGLE PACKAGE AIR CONDITIONING UNIT NO.1
EUH-1	ELECTRIC UNIT HEATER NO.1	T-1	TERMINAL UNIT NO. 1
EW-1	ELECTRIC WALL HEATER NO.1	TA	THROW AWAY (FILTER)
EXT	EXTERNAL	TC	TIME CONTROL
FPS	FEET PER SECOND	TD	TRANSFER DUCT
FT	FEET	TEAO	TOTALLY ENCLOSED AIR OVER
FLR	FLOOR	TEFC	TOTALLY ENCLOSED FAN COOLED
HP	HORSE POWER	UNO	UNLESS NOTES OTHERWISE
IDAC-1	INDOOR AIR CONDITIONING UNIT NO.1	VFD	VARIABLE FREQUENCY DRIVE
IDHP-1	INDOOR HEAT PUMP NO.1	VEL	VELOCITY
		VOLT	VOLTAGE
		WMHP-1	WALL MOUNTED HEAT PUMP NO. 1
		2POS	TWO POSITION

S3956

AIR CONDITIONER #	EST * SP(a)	CFM		FANS				COMPRESSOR		ELECTRIC HEAT		COOLING COIL CAPACITY						HEATING COIL CAP		MAX. WEIGHT #	ELECTRIC			MANUFACTURER AND MODEL	REMARKS				
		TOT	OA	FLA	NO	BHP	HP	NO	RLA	KW	VOLT/PH	MBH (NET)		OUTDOOR		ENT AIR		LVG AIR			EER(b)	ENT T	34 F			MCA	MOCP	VOLT/PH	
												TOT	SENS	DB T	DB	WB	DB	WB	DB		WB		T			MBH	COP		
SPHP-A100	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A101	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A102	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A103	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A104	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A105	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A106	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A107	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A108	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A109	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A110	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A111	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A112	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-A113	1.0	1280	150	0.8	1	0.62	1.5	1	6.4	12	480/3	45.9	32.8	95	80.0	67.1	56.9	55.6	13.0	47	42.7	3.6	700	29	30	480/3	TRANE WHC048	(2)(3)(4)(5)(6)(7)(8)(9)(10)(12)(13)	
SPHP-D109	1.0	3000	600	1.6	1	1.26	2.75	2	7.6/6.3	18	480/3	99.8	72.4	95	79.0	66.6	55.1	55.0	12.0	47	90.1	-	1300	49	50	480/3	TRANE WHC102	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)	

- * INCLUDES DUCT, GRILLES, AND LOADED FILTERS (a) INCHES WG (b) @ ARI CONDITIONS
- ① ADAPTER CURB ③ SINGLE POINT POWER ⑤ STAGED ELECTRIC HEAT ⑦ BACnet COMMUNICATION CARD ⑨ DIRECT DRIVE FAN MOTOR ⑪ UNPOWERED CONVENIENCE OUTLET ⑬ HORIZONTAL DISCHARGE
- ② LOW AMBIENT ④ 2 STAGE COMPRESSOR ⑥ HOT GAS REHEAT TO 72 DEG. ⑧ LOW LEAK INSULATED OA DAMPER ⑩ FACTORY CIRCUIT BREAKER (WITH OVERCURRENT PROTECTION) ⑫ HAIL GUARD

Project Engineer: JEB
 Drawn By: JEB

Revisions:

No.	Date	
No.	Date	
No.	Date	
No.	Date	
No.	Date	
No.	Date	
No.	Date	
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No.	Date	
No.	Date	

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SOUTH CAROLINA
 BUFORD GOFF & ASSOCIATES, INC.
 No. 000022
 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
 PROFESSIONAL ENGINEER
 No. 26527
 4/19/2023
 YONATHAN BURKETT

Project: ROCK HILL SCHOOL DISTRICT 3
 LESSLIE ELEMENTARY SCHOOL HVAC REPLACEMENT

Sheet Title: HVAC NOTES, SCHEDULES AND LEGENDS

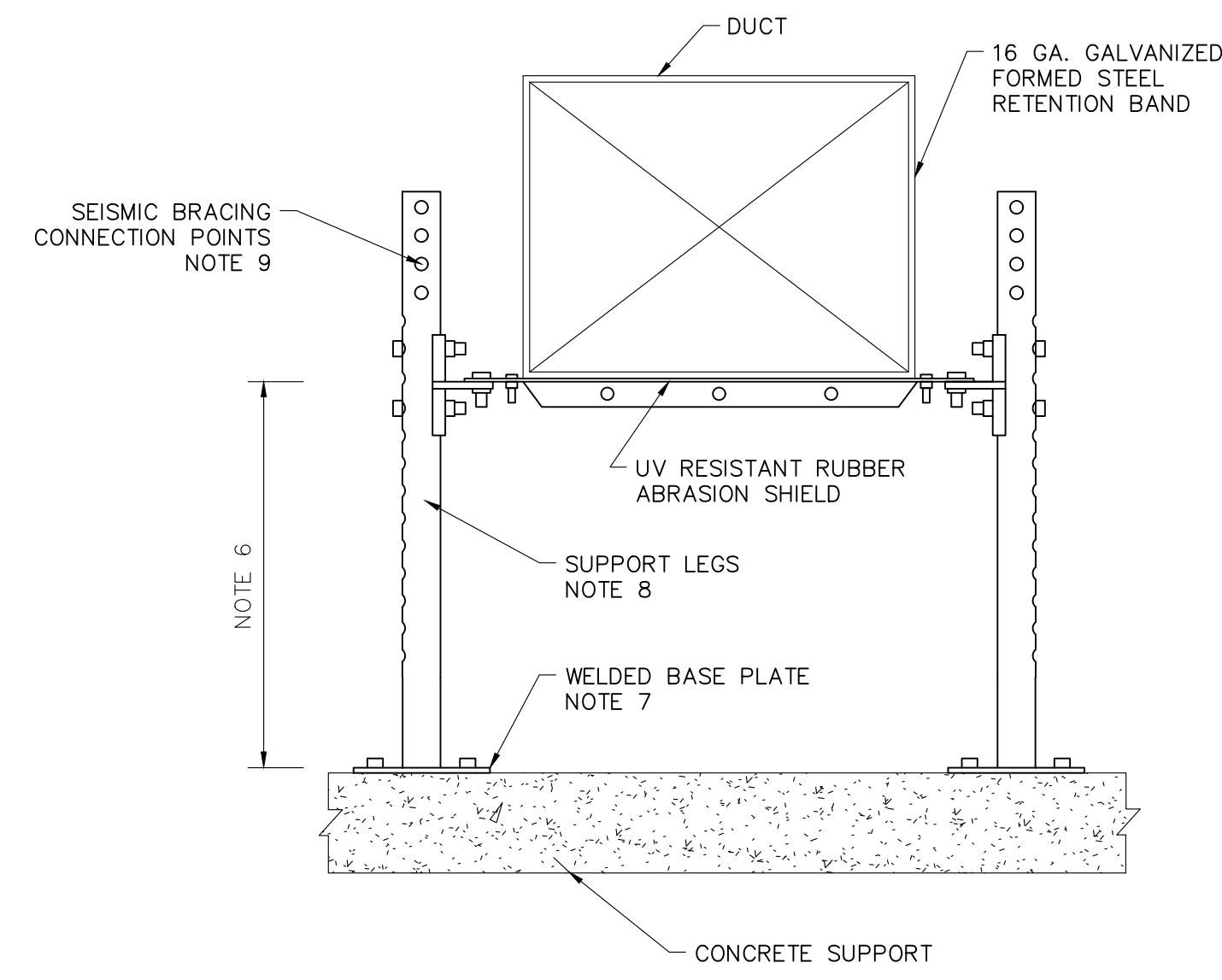
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Project:
 Sheet Title:

Buford Goff & Associates, Inc.
 Engineers & Planners

1331 Elmwood Ave.
 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302

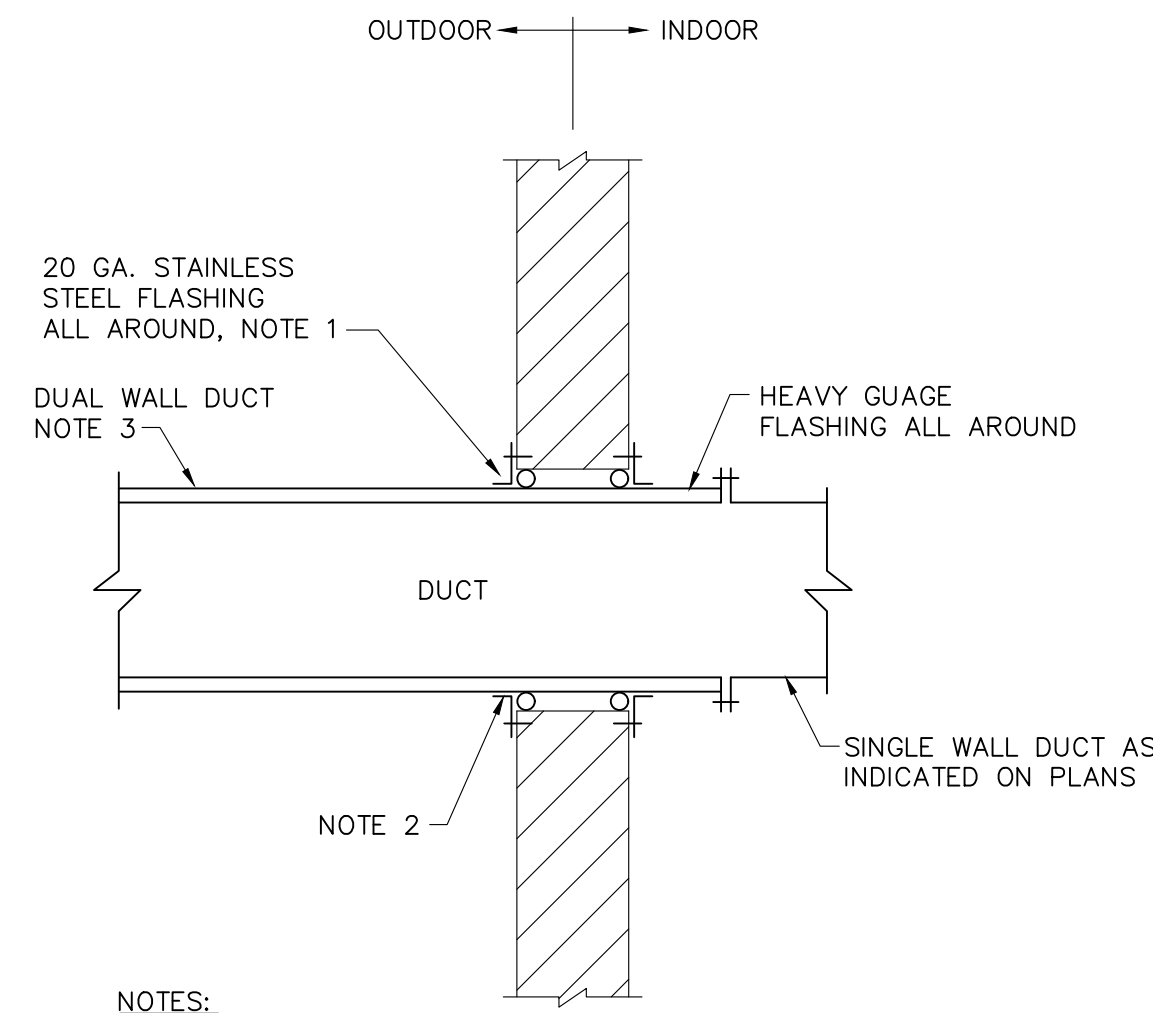


NOTES:

1. PROVIDE PRE-ENGINEERED GRADE MOUNTED DUCT SUPPORT SYSTEM. SYSTEM SHALL BE SIZED FOR THE PROPER DUCT DIMENSIONS, WEIGHTS, AND SEISMIC/WIND LOADS. MECHANICAL SUPPORT SYSTEMS, INC. NO. 101-G OR APPROVED EQUAL.
2. RUN INSULATION AND JACKETING CONTINUOUSLY THROUGH SUPPORTS.
3. ALL STRUCTURAL SUPPORTS AND ACCESSORIES SHALL BE HOT DIPPED GALVANIZED.
4. SEE PLAN FOR SPACING OF SUPPORTS. WHERE SPACING IS NOT SHOWN PROVIDE SUPPORTS A MINIMUM EVERY 8 FEET.
5. OPTIONAL UNDER PIPE RACK SUPPORT RACK MAY BE USED TO SUPPORT PIPING AS REQUIRED.
6. ADJUST HEIGHT AS REQUIRED FOR INSTALLATION. MIN 12" AFG.
7. ATTACH BASE PLATES TO CONCRETE SUPPORT PER THE SEISMIC/WIND SUBMITTAL.
8. SCHEDULE 40 PIPE OR UNISTRUT SUPPORT LEGS. LEGS SHALL ALLOW ADJUSTMENT IN INCREMENTS OF 3/4".
9. PROVIDE SEISMIC BRACING WHEN REQUIRED FOR THE SEISMIC OR WIND LOADING CONDITIONS.

OUTDOOR DUCT SUPPORTS

NOT TO SCALE

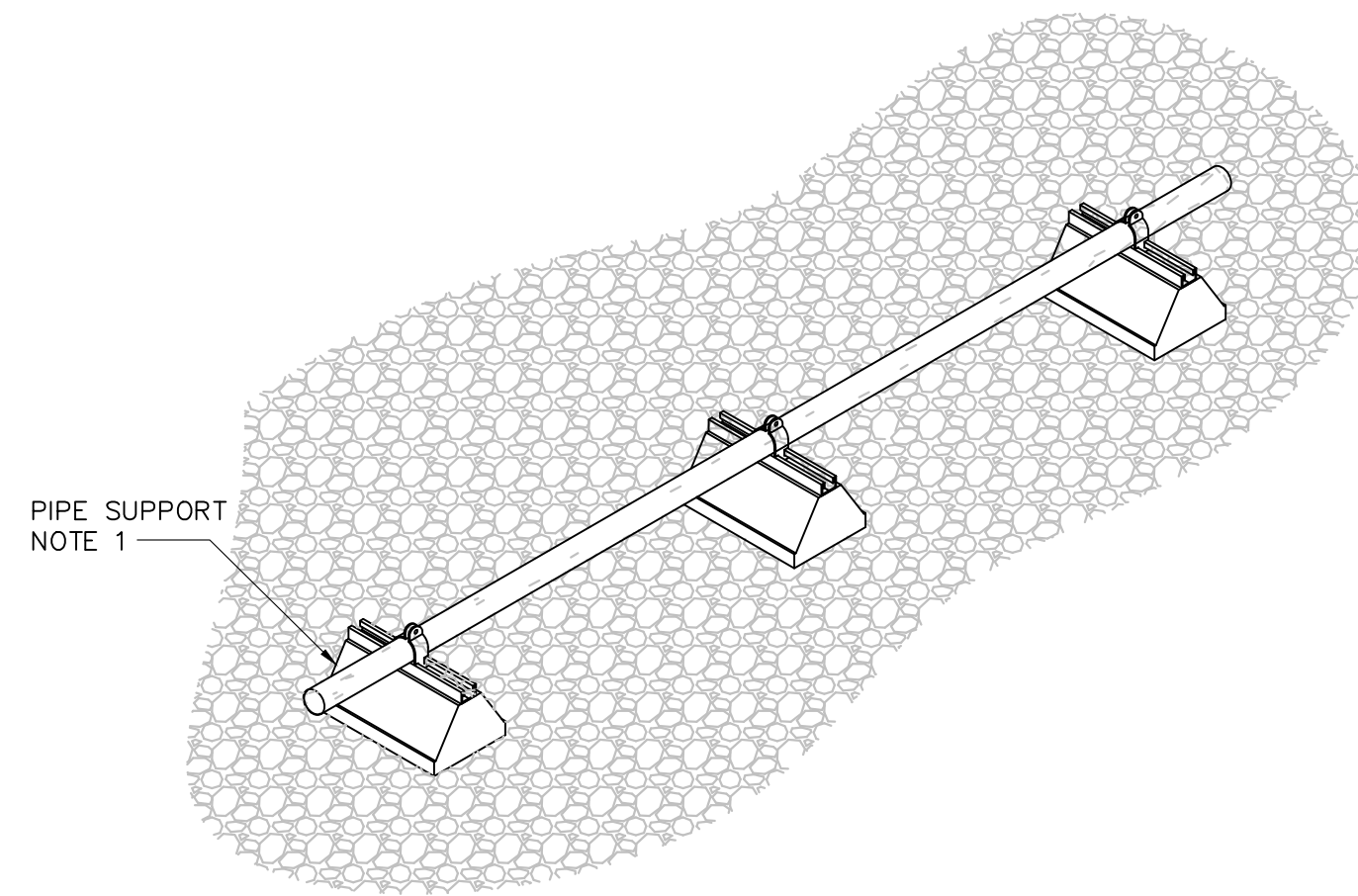


NOTES:

1. PROVIDE CAULKING BEHIND ANGLE.
2. PROVIDE SEALANT BETWEEN DUCT AND WALL ALL AROUND.
3. SEE SPECIFICATIONS.

DUAL WALL DUCT THROUGH EXTERIOR WALL DETAIL

NOT TO SCALE



NOTES:

1. PROVIDE SUPPORT 4 FT ON CENTER.
2. SUPPORTS SHALL BE MIFAB CE OR APPROVED EQUAL. SUPPORT SHALL BE CONSTRUCTED OF UV RESISTANT RUBBER OR POLYCARBONATE WITH TWO STAINLESS STEEL TREADED RODS WITH A 14 GAUGE STAINLESS STEEL CHANNEL SUPPORT.
3. PROVIDE A HEAVY BED OF ROOFING TAR OR MASTIC ACCEPTABLE TO ROOFING CONTRACTOR TO SET THE SUPPORTS ON.
4. ADJUST PIPE SUPPORT FOR GRAVITY FLOW OF CONDENSATE DRAIN LINES.

EQUIPMENT DRAIN PIPE SUPPORT ON ROOF DETAIL

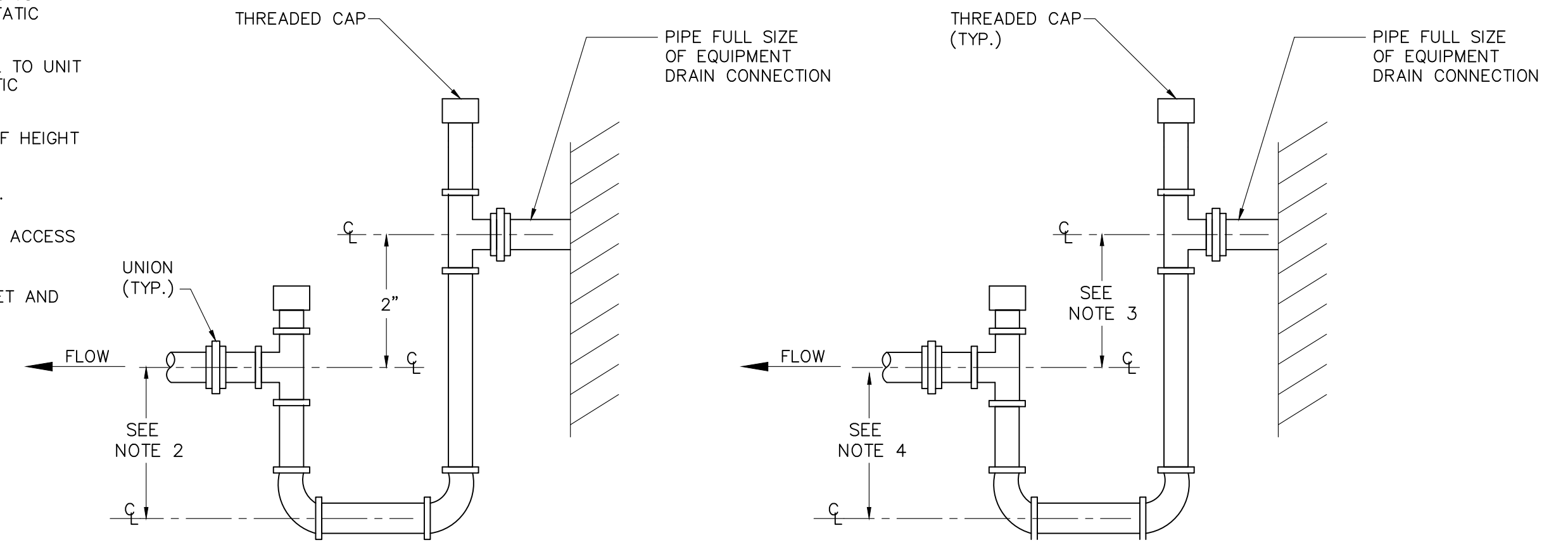
3179C

NOT TO SCALE

5/10

NOTES:

1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
2. HEIGHT SHALL BE EQUAL TO UNIT MAXIMUM TOTAL STATIC PRESSURE PLUS 1/2"
3. HEIGHT SHALL BE EQUAL TO UNIT MAXIMUM NEGATIVE STATIC PRESSURE PLUS 1"
4. HEIGHT SHALL BE 1/2 OF HEIGHT INSTALLED IN NOTE 3
5. PIPE TO NEAREST DRAIN.
6. TRAP SHALL NOT BLOCK ACCESS TO EQUIPMENT.
7. PROVIDE UNIONS AT INLET AND OUTLET OF TRAP.
8. DRAIN LINE SHALL BE 3/4" MIN OR UNIT CONNECTION SIZE, WHICHEVER IS LARGER.



BLOW THRU DRAIN

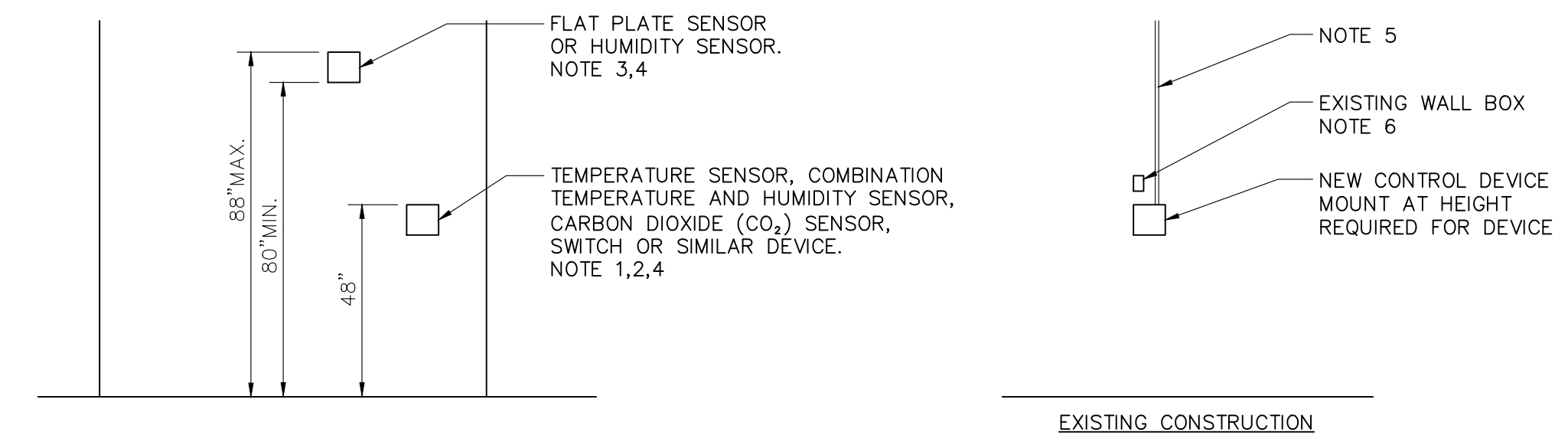
DRAW THRU DRAIN

EQUIPMENT CONDENSATE DRAIN DETAIL

3179B

NOT TO SCALE

3/16



NOTES:

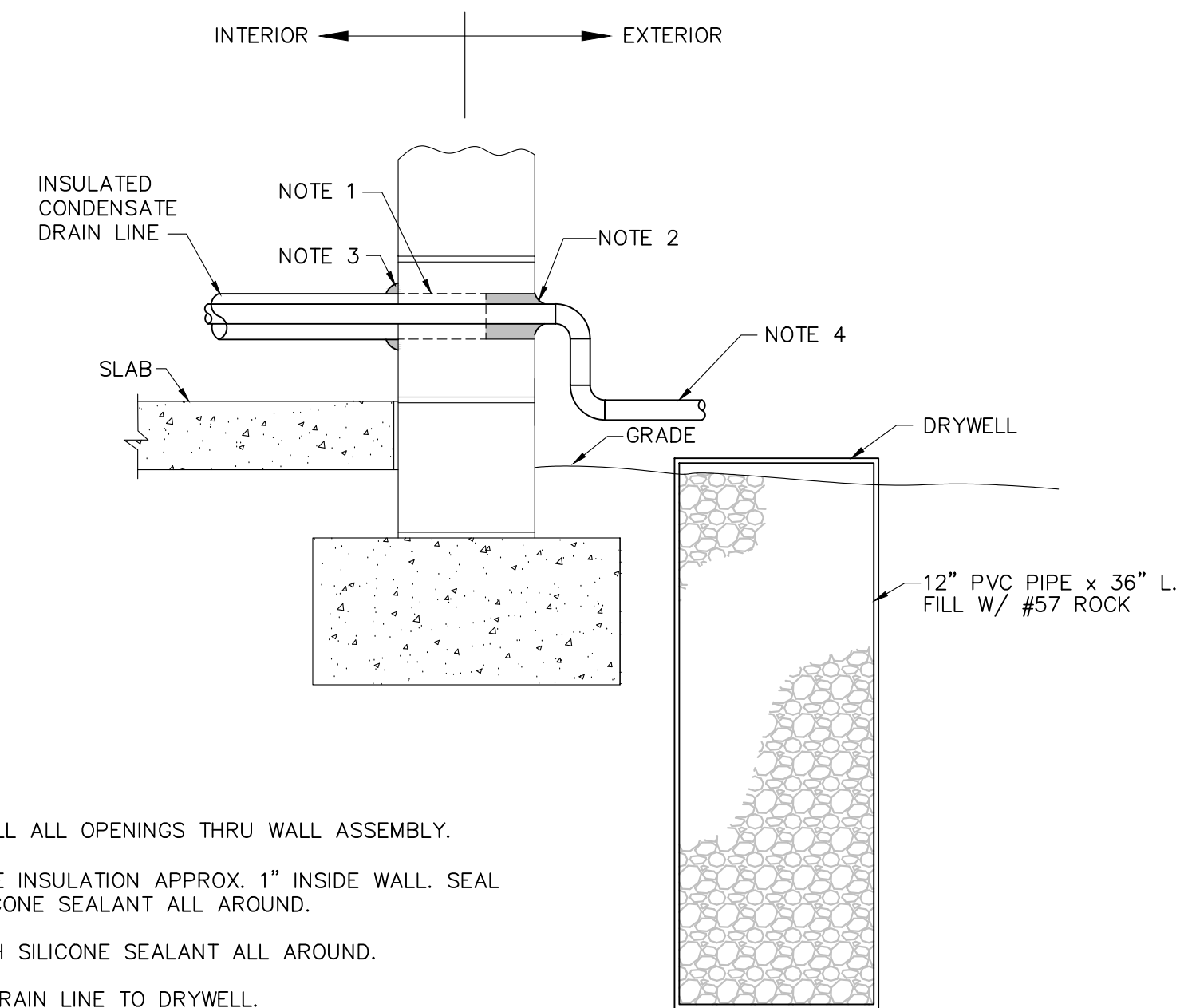
1. DEVICES THAT REQUIRE ACCESS BY BUILDING OCCUPANTS OTHER THAN MAINTENANCE PERSONNEL.
2. 44" TO TOP OF DEVICE WHEN OBSTACLE (SHELVING, COUNTER, ETC.) IN FRONT OF DEVICE.
3. DEVICES THAT DO NOT REQUIRE ACCESS BY BUILDING OCCUPANTS OTHER THAN MAINTENANCE PERSONNEL.
4. HEIGHT SHALL BE AS INDICATED UNLESS A DEVICE IS SPECIFICALLY REQUIRED TO BE LOCATED AT ANOTHER HEIGHT TO PERFORM ITS INTENDED FUNCTION.
5. PROVIDE WIRE MOLD WHERE PERMITTED ON EXISTING WALL WHERE CONTROLS CANNOT BE INSTALLED IN THE WALL.
6. PROVIDE OVERSIZED STAINLESS STEEL COVER PLATE IF BOX IS NOT REUSED.

DEVICE MOUNTING HEIGHT

3714

NOT TO SCALE

2/18



NOTES:

1. CORE DRILL ALL OPENINGS THRU WALL ASSEMBLY.
2. STOP PIPE INSULATION APPROX. 1" INSIDE WALL. SEAL WITH SILICONE SEALANT ALL AROUND.
3. SEAL WITH SILICONE SEALANT ALL AROUND.
4. EXTEND DRAIN LINE TO DRYWELL.

DRYWELL DETAIL - TYPE 2

3184B

NOT TO SCALE

12/19

Project Engineer: JEB

Drawn By: JEB

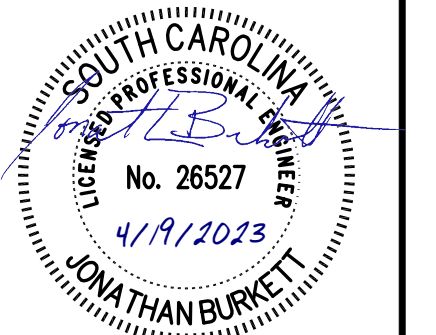
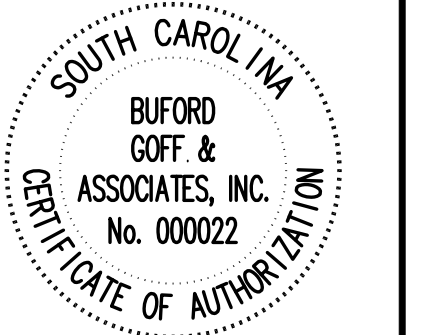
Revisions:

No.	Date	Description

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 LESSLIE ELEMENTARY SCHOOL HVAC
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