



Fort Mill School District

Addendum 3

Solicitation Number	20-020
Solicitation Issue Date	2/23/2021
Procurement Officer	Karen U Taylor
Phone	(803) 548-8430
E-Mail Address	taylorku@fortmillschools.org

DESCRIPTION: Springfield Middle School: Replacement of 5 air handling units serving the gymnasium and auditorium. Provide a new unit serving the wrestling room and new fabric ductwork.

The Term "Offer" Means Your "Bid" or "Proposal".

SUBMIT OFFER BY (Opening Date/Time): 3/22/2021 at 10:00 AM - EST

QUESTIONS MUST BE RECEIVED BY: 3/10/2021 at 4:00 PM - EST to Jonathan.Burkett@BGAinc.com

MANDATORY Pre-Bid Meeting: 3/1/2021 10:00 AM Springfield Middle School, 1711 Springfield Pkwy, Fort Mill, SC 29715

NUMBER OF COPIES TO BE SUBMITTED: One (1) original CONFERENCE TYPE: N/A

Please submit your sealed offer on-line ONLY
ON-LINE AT:
<http://www.fortmillschools.org/departments/procurement/> under "Current Bids and RFP's"
 Video of opening bids will be posted at www.fortmillschools.org/departments/procurement

<small>(As appropriate, see "Conferences - Pre-Bid/Proposal" & "Site Visit" provisions)</small>	
AWARD & AMENDMENTS	Award will be posted at the physical address stated above on or about 1/22/2021 The award will be posted at the following web address: http://www.fortmillschools.org
You must submit a signed copy of this form with your offer. By submitting a bid or proposal, you agree to be bound by the terms of the solicitation. You agree to hold your offer open for a minimum of sixty (60) calendar days after the opening date.	
NAME OF OFFEROR <small>(Full legal name of business submitting the offer)</small>	OFFEROR'S TYPE OF ENTITY: <small>(Check one)</small>
AUTHORIZED SIGNATURE <small>(Person signing must be authorized to submit binding offer to enter contract on behalf of Offeror named above.)</small>	<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Corporate entity (not tax-exempt) <input type="checkbox"/> Tax exempt corporate entity <input type="checkbox"/> Government entity (federal, state, or local) <input type="checkbox"/> Other <small>(See "Signing your Offer" provision)</small>
TITLE <small>(Business title of person signing above)</small>	
PRINTED NAME <small>(Printed name of person signing above)</small>	DATE SIGNED
Instructions regarding Offeror's name: Any award issued will be issued to, and the contract will be formed with, the entity identified as the offeror above. An offer may be submitted by only one legal entity. The entity named as the offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, <i>i.e.</i> , a separate corporation, partnership, sole proprietorship, etc.	
STATE OF INCORPORATION <small>(If offeror is a corporation, identify the State of Incorporation.)</small>	
TAXPAYER IDENTIFICATION NO. <small>(See "Taxpayer Identification Number" provision)</small>	

NOTICE TO BIDDERS

This Addendum is issued pursuant to the Conditions of the Contract and is hereby made part of the Contract Documents. The addendum serves to clarify, revise, and supersede information in the Project Manual, the Drawings, and previously issued Addenda. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form. Failure to do so may subject the Bidder to disqualification. A list of attachments, if any, is part of this document.

The date for receipt of bids for this project is unchanged by this Addendum.

A. PROJECT SCHEDULE

1. All work shall be substantially complete by August 2nd with the exception of the work associated with DHS-A1, B1, C1, F1 and G1 which shall be completed on weekends, Thanksgiving or Christmas breaks, or as coordinated with the school district. All work shall be complete by January 1st 2022.

B. CLARIFICATIONS

1. SPHPs 5-tons and less can have belt-driven fans instead of direct drive.
2. SPAC-F1, G1, & G2 – 2 stage heat is acceptable (as shown on schedule).

C. PRIOR APPROVALS

1. Bipolar Ionization:
 - a. Add Phenomenal Air as an approved manufacturer.
2. Rooftop Units
 - a. Add AAON as an approved manufacturer.

D. GENERAL DRAWINGS

1. Cover Sheet
 - a. See new sheet.
2. Sheet G001
 - a. See new sheet.

E. GENERAL CONSTRUCTION DRAWINGS

1. Sheet GC201
 - a. See revised sheet.

2. Sheet GC202
 - a. See revised sheet.

F. HVAC DRAWINGS

1. Sheet M201
 - a. See revised sheet.
2. Sheet M300
 - a. See revised sheet.

ATTACHMENTS:

1. Drawing CS
2. Drawing G001
3. Drawing GC201
4. Drawing GC202
5. Drawing M201
6. Drawing M300

- End of Addendum -

FORT MILL SCHOOLS / YCSD 4 SPRINGFIELD MIDDLE SCHOOL 1711 SPRINGFIELD PARKWAY FORT MILLS, SC 29715

HVAC UPGRADES

PROJECT # 20028

2021-02-22

Project Engineer: DER	
Drawn By: LAM	
Revisions:	
No. 1	Date: 3/11/21
No. _____	Date: _____
No. _____	Date: _____

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SITE MAP



CONSULTANTS

GENERAL CONSTRUCTION - MECHANICAL - ELECTRICAL
BUFORD GOFF & ASSOCIATES, INC.
1331 ELMWOOD AVENUE, SUITE 200
COLUMBIA, SOUTH CAROLINA 29201
TEL: (803) 254-6302
FAX: (803) 771-6142

CODE ANALYSIS

1. SOUTH CAROLINA EXISTING BUILDING CODE (SCEBC): 2018
2. SOUTH CAROLINA BUILDING CODE (SCBC): 2018
3. SOUTH CAROLINA FIRE CODE (SCFC): 2018
4. SOUTH CAROLINA FUEL GAS CODE (SCFGC): 2018
5. SOUTH CAROLINA MECHANICAL CODE (SCMC): 2018
6. SOUTH CAROLINA PLUMBING CODE (SCPC): 2018
7. NATIONAL ELECTRIC CODE (NEC) WITH SC MODIFICATIONS: 2017
8. INTERNATIONAL ENERGY CONSERVATION CODE (IECC) WITH SC MODIFICATIONS: 2009
9. SEISMIC & WIND DESIGN CRITERIA: CATEGORY C, RISK CATEGORY III, WIND SPEED 119 MPH

DRAWING INDEX

CODE COMPLIANCE

G001 BUILDING CODE ANALYSIS FORM F-3

GENERAL CONSTRUCTION

GD201 GENERAL DEMOLITION PLAN - AREA - G
GD202 GENERAL DEMOLITION PLAN - AREA - C, E, F
GD203 GENERAL DEMOLITION PLAN - AREA - A, B, D
GC201 GENERAL CONSTRUCTION PLAN - AREA - G
GC202 GENERAL CONSTRUCTION PLAN - AREA - C, E, F
GC203 GENERAL CONSTRUCTION PLAN - AREA - A, B, D

STRUCTURAL

S200 STRUCTURAL PLANS AND NOTES
S201 STRUCTURAL PLANS AND DETAILS

MECHANICAL

MD201 MECHANICAL DEMOLITION PLAN - AREA - G
MD202 MECHANICAL DEMOLITION PLAN - AREA - C, E, F
MD203 MECHANICAL DEMOLITION PLAN - AREA - A, B, D
M201 MECHANICAL ROOF PLAN - AREA - G
M202 MECHANICAL ROOF PLAN - AREA - C, E, F
M203 MECHANICAL ROOF PLAN - AREA - A, B, D
M300 HVAC NOTES AND SCHEDULES
M400 HVAC DETAILS
M401 HVAC DETAILS
M402 ENLARGED AIR HANDLING UNIT DETAILS

ELECTRICAL

ED201 PARTIAL ROOF PLAN - ELECTRICAL DEMOLITION
ED202 PARTIAL ROOF PLAN - ELECTRICAL DEMOLITION
ED203 PARTIAL ROOF PLAN - ELECTRICAL DEMOLITION
E201 PARTIAL ROOF PLAN - ELECTRICAL RENOVATION
E202 PARTIAL ROOF PLAN - ELECTRICAL RENOVATION
E203 PARTIAL ROOF PLAN - ELECTRICAL RENOVATION

FORT MILLS SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES

COVER SHEET

Buford Goff
& Associates, Inc.
Engineers & Planners

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

Sheet Number:

CS

Date: FEBRUARY 22, 2021
Scale: As Noted
BGA PROJECT NUMBER: 20028
CONSTRUCTION DOCUMENTS

FORM F3 - BUILDING CODE ANALYSIS

DATE: 03-11-2021

SUBMITTAL: SCHEMATIC DESIGN DEVELOPMENT CONSTRUCTION DOCUMENT

SC CODE EDITION: 2018 ICC CODE EDITION: 2018 ICC A117.1 EDITION: 2017 OSF GUIDE EDITION: 2020

OTHER CODES/STANDARDS & EDITIONS:

PROJECT DESCRIPTION:
REPLACEMENT OF PACKAGED ROOFTOP UNITS.

BASIC BUILDING CODE INFORMATION						
DESIGNATED AREAS OF BUILDING	BUILDING CODE	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5
	-	<input type="checkbox"/> SCBC <input checked="" type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC
CONSTRUCTION CLASSIFICATION TYPE	SECTION 602	IIB (ASSUMED)	-	-	-	-
OCCUPANCY GROUP (INDICATE ALL)	SECTION 302	E	-	-	-	-
MOST RESTRICTIVE OCCUPANCY GROUP	TABLES 504.3, 504.4 & 506.2	E	-	-	-	-
DOES BUILDING REQUIRE INCIDENTAL USE AREA SEPARATION?	TABLE 509	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES BUILDING HAVE ACCESSORY OCCUPANCY(IES)?	TABLE 508.2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
WHAT IS THE AGGREGATE SQUARE FOOTAGE OF THE ACCESSORY OCCUPANCY(IES)?	TABLE 508.2	N/A	-	-	-	-
WHAT PERCENT OF THE STORY IS THE AGGREGATE OF THE ACCESSORY OCCUPANCY(IES)?	TABLE 508.2	N/A	-	-	-	-
MIXED OCCUPANCY	SECTION 508	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NONSEPARATED <input type="checkbox"/> SEPARATED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NONSEPARATED <input type="checkbox"/> SEPARATED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NONSEPARATED <input type="checkbox"/> SEPARATED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NONSEPARATED <input type="checkbox"/> SEPARATED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NONSEPARATED <input type="checkbox"/> SEPARATED

EXISTING BUILDING CODE INFORMATION [SCEBC]			
DESIGNATED AREAS OF BUILDING	AREA 1	AREA 2	AREA 3
METHOD OF COMPLIANCE: (CHECK ONLY ON OPTION AND ALL ITEMS THAT APPLY UNDER THAT OPTION.)	<input type="checkbox"/> OPTION 1: PRESCRIPTIVE COMPLIANCE METHOD (CH. 3,5) <input type="checkbox"/> ALTERATION <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> HISTORIC BUILDING	<input type="checkbox"/> OPTION 1: PRESCRIPTIVE COMPLIANCE METHOD (CH. 3,5) <input type="checkbox"/> ALTERATION <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> HISTORIC BUILDING	<input type="checkbox"/> OPTION 1: PRESCRIPTIVE COMPLIANCE METHOD (CH. 3,5) <input type="checkbox"/> ALTERATION <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> HISTORIC BUILDING
	<input checked="" type="checkbox"/> OPTION 2: WORK AREA COMPLIANCE METHOD (CH. 3, 6-12) <input checked="" type="checkbox"/> ALTERATION LEVEL 1 <input type="checkbox"/> ALTERATION LEVEL 2 <input type="checkbox"/> ALTERATION LEVEL 3 <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> ADDITIONS <input type="checkbox"/> HISTORIC BUILDING AGGREGATE AREA OF BUILDING: N/A SF WORK AREA: N/A SF	<input type="checkbox"/> OPTION 2: WORK AREA COMPLIANCE METHOD (CH. 3, 6-12) <input type="checkbox"/> ALTERATION LEVEL 1 <input type="checkbox"/> ALTERATION LEVEL 2 <input type="checkbox"/> ALTERATION LEVEL 3 <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> ADDITIONS <input type="checkbox"/> HISTORIC BUILDING AGGREGATE AREA OF BUILDING: SF WORK AREA: SF	<input type="checkbox"/> OPTION 2: WORK AREA COMPLIANCE METHOD (CH. 3, 6-12) <input type="checkbox"/> ALTERATION LEVEL 1 <input type="checkbox"/> ALTERATION LEVEL 2 <input type="checkbox"/> ALTERATION LEVEL 3 <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> ADDITIONS <input type="checkbox"/> HISTORIC BUILDING AGGREGATE AREA OF BUILDING: SF WORK AREA: SF
	<input type="checkbox"/> OPTION 3: PERFORMANCE COMPLIANCE METHOD (CH. 3, 13)	<input type="checkbox"/> OPTION 3: PERFORMANCE COMPLIANCE METHOD (CH. 3, 13)	<input type="checkbox"/> OPTION 3: PERFORMANCE COMPLIANCE METHOD (CH. 3, 13)
ORIGINAL BUILDING CODE AND EDITION APPLICABLE AT THE TIME OF CONSTRUCTION:	2000 IBC		
EXISTING SPRINKLER SYSTEM?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
EXISTING FIRE ALARM SYSTEM?	<input checked="" type="checkbox"/> MANUAL <input type="checkbox"/> AUTO	<input type="checkbox"/> MANUAL <input type="checkbox"/> AUTO	<input type="checkbox"/> MANUAL <input type="checkbox"/> AUTO
SEISMIC EVALUATION REQUIRED?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
CHANGE OF OCCUPANCY:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO EXISTING OCCUPANCY CLASS(S) NEW OCCUPANCY CLASSIFICATION(S)	<input type="checkbox"/> YES <input type="checkbox"/> NO EXISTING OCCUPANCY CLASS(S) NEW OCCUPANCY CLASSIFICATION(S)	<input type="checkbox"/> YES <input type="checkbox"/> NO EXISTING OCCUPANCY CLASS(S) NEW OCCUPANCY CLASSIFICATION(S)
HISTORIC BUILDING:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> PRESERVATION <input type="checkbox"/> REHABILITATION <input type="checkbox"/> RESTORATION <input type="checkbox"/> RECONSTRUCTION	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> PRESERVATION <input type="checkbox"/> REHABILITATION <input type="checkbox"/> RESTORATION <input type="checkbox"/> RECONSTRUCTION	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> PRESERVATION <input type="checkbox"/> REHABILITATION <input type="checkbox"/> RESTORATION <input type="checkbox"/> RECONSTRUCTION

MECHANICAL INFORMATION

GENERAL INFORMATION

BUILDING LOCATION: FORT MILL, SOUTH CAROLINA

CLIMATE ZONE: 3A

OUTDOOR DESIGN TEMPERATURE

SUMMER	95 DEG. F DF
	74 DEG. F WB
WINTER	19 DEG. F DF
	N/A DEG. F WB

INDOOR DESIGN TEMPERATURE

SUMMER	75 DEG. F DF
	50 % RH
WINTER	70 DEG. F DF
	N/A % RH

OUTSIDE AIR

OCCUPIED MINIMUM OUTSIDE AIR: N/A

CO2 DEMAND MANAGEMENT: NO YES

SUPERVISED CONTROL SYSTEM: NO YES

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT

THE EXISTING PACKAGED UNITS AND OUTSIDE AIR UNITS TO BE REPLACED WITH NEW EQUIPMENT.

STRUCTURAL DESIGN INFORMATION, BUILDING		
WIND LOADS	ANALYSIS PROCEDURE (ASCE 7 OR IBC 1609.6)	ASCE 7-16
	BASIC WIND SPEED, MPS (3 SEC GUST IBC FIG 1609)	V _{WS} = 119
	EXPOSURE CATEGORY	B
	WIND IMPORTANCE FACTOR (ASCE 7 TABLE 6.1)	I _w = 1.15
SEISMIC LOADS	INTERNAL PRESSURE COEFFICIENT (ASCE 7)	G _{CPI} = N/A
	EXTERNAL PRESSURE COEFFICIENT (ASCE 7)	G _{CP} = N/A
	SEISMIC IMPORTANCE FACTOR (ASCE 7)	I = 1.25
	SOIL CLASS (IBC 1613.5.2)	D
	MAPPED SPECTRAL RESPONSE ACCELERATIONS	S _S = 0.218 S ₁ = 0.086
	DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	S _{DS} = 0.233 S ₁ = 0.137
	SEISMIC USE GROUP (ASCE 7 AND SEISMIC OCCUPANCY CATEGORY IBC)	III
	SEISMIC DESIGN CATEGORY (IBC TABLES 1613.5.6(1) & 16.13.5.6(2))	C
	BASIC SEISMIC FORCE RESISTING SYSTEM	N/A
	DESIGN BASE SHEAR	N/A KIPS
SEISMIC RESPONSE COEFFICIENT(S) ASCE 7	C _s = N/A	
RESPONSE MODIFICATION FACTOR(S) ASCE 7	R = N/A	
ANALYSIS PROCEDURE	N/A	

ELECTRICAL INFORMATION N/A, EXISTING SERVICES

BY UTILITY

SERVICE TRANSFORMER

BY DISTRICT

N/A KVA PRIMARY

N/A VOLTAGE/PHASE

ELECTRICAL SERVICE INFORMATION

SERVICE VOLTAGE/PHASE: N/A AMPERES

SERVICE ENTRANCE CONDUCTOR SIZE: N/A QTY PER PHASE

TOTAL CONNECTED LOAD: N/A KVA

ESTIMATED MAXIMUM DEMAND: N/A KVA

AVAILABLE FAULT CURRENT IN SYMMETRICAL AMPERES: N/A

INTERRUPTING CAPACITY OF SERVICE OVERCURRENT DEVICE: N/A

GROUNDING ELECTRODE SYSTEM COMPONENTS (NEC 250)

EMERGENCY SERVICE INFORMATION: N/A

EMERGENCY GENERATOR

NO YES

N/A KVA

N/A VOLTAGE/PHASE

FUEL: N/A

EXIT/EMERGENCY LIGHTS BACKUP POWER

INTEGRAL BATTERY
 GENERATOR

FIRE ALARM SYSTEM

MANUAL
 AUTOMATIC

ADDRESSABLE
 CLASS A
 CLASS B

LIGHTNING PROTECTION PROVIDED: NO YES

Project Engineer: DER

Drawn By: LAM

Revisions:

No. 1 Date: 3/11/21

No. _____ Date: _____

No. _____ Date: _____

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FORT MILLS SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES
 BUILDING CODE ANALYSIS FORM F-3

Buford Goff
& Associates, Inc.
Engineers & Planners

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Suite 200
Columbia, SC 29201
Phone: (803) 254-6302

Sheet Number: **G001**

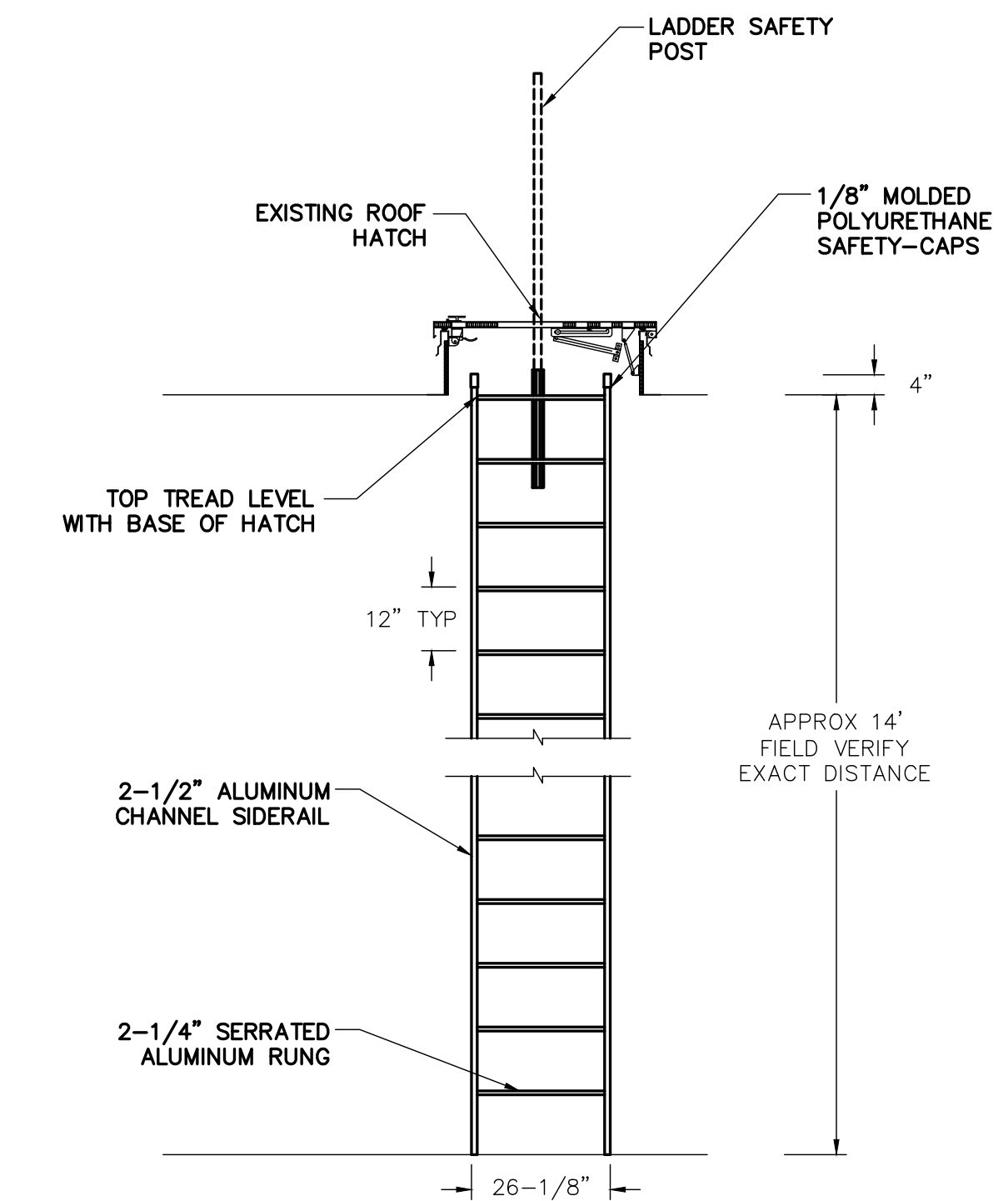
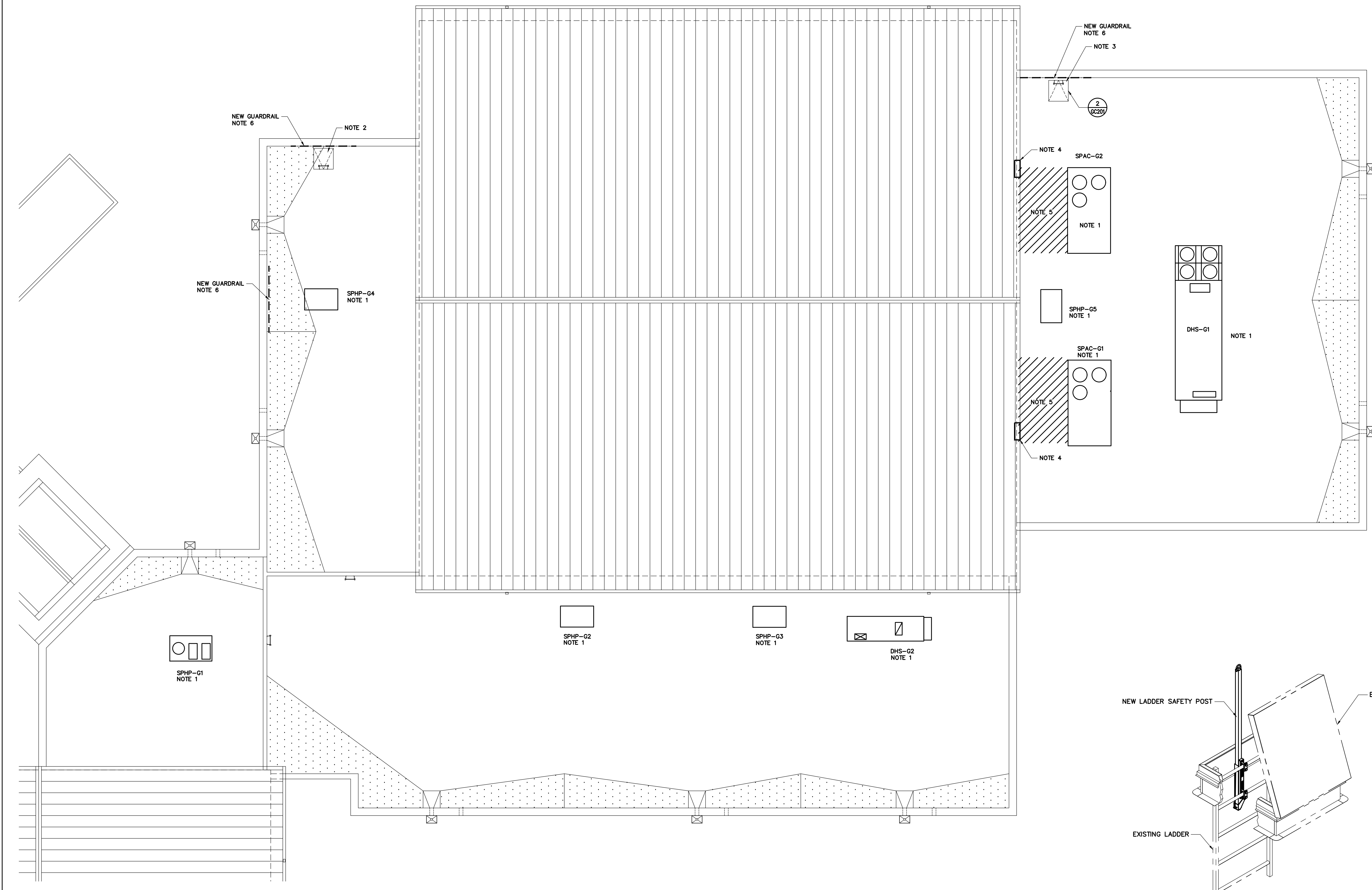
Date: FEBRUARY 22, 2021
Scale: As Noted
BGA PROJECT NUMBER: 20028
CONSTRUCTION DOCUMENTS

GENERAL CONSTRUCTION KEY NOTES

- COORDINATE LOCATION OF NEW ROOFTOP EQUIPMENT WITH MECHANICAL PLANS.
- INSTALL NEW LADDER SAFETY POST ON EXISTING ROOF ACCESS.
- INSTALL NEW LADDER AND SAFETY POST.
- SEAL AND FRAME DUCT PENETRATION THROUGH WALL AS REQUIRED.
- REPLACE ROOFING AROUND NEW DUCTWORK AS REQUIRED.
- INSTALL NEW GUARDRAIL ATTACHED TO PARAPET. SEE DETAIL ON GC202.

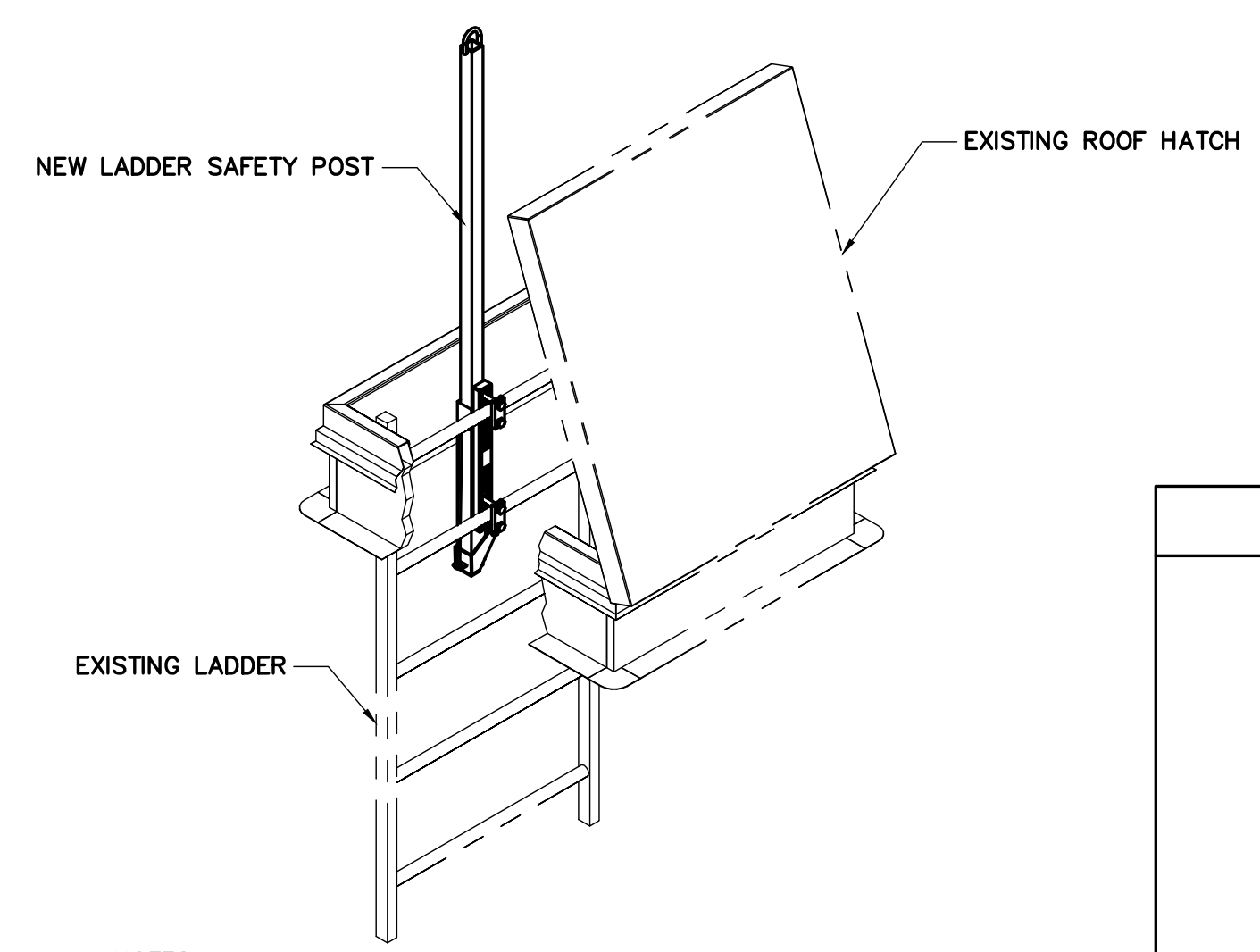
Project Engineer: JEB
 Drawn By: xxx
 Revisions:
 No. 1 Date: 3/11/21
 No. Date:
 No. Date:

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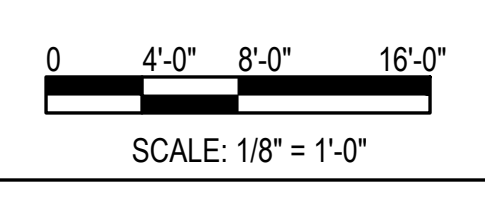
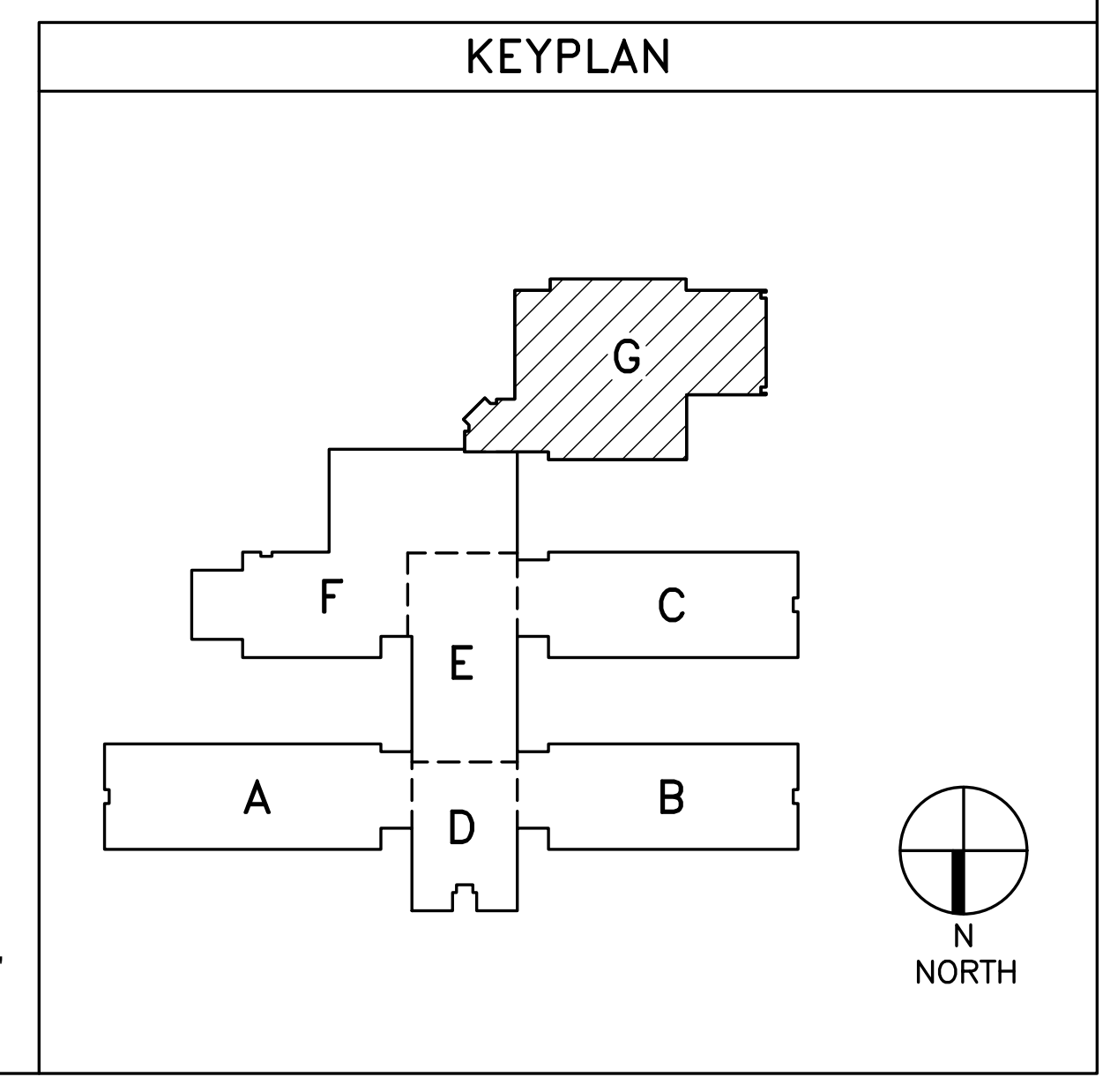
- NOTES:**
- FIELD VERIFY EXISTING CONDITIONS. COORDINATE EXACT LOCATIONS WITH EXISTING EQUIPMENT, PIPING AND STRUCTURAL.
 - FIELD VERIFY ALL DIMENSIONS.
 - INSTALL LADDER AND ALL APPURTENANCES TO MEET OSHA REQUIREMENTS.

2 LADDER #1 DETAIL
 SCALE: NTS



- NOTES:**
- FIELD VERIFY EXISTING LADDER RUNG DIMENSIONS AND SPACING PRIOR TO ORDERING SAFETY POST. PROVIDE ALL HARDWARE TO ATTACH SAFETY POST TO LADDER.
 - POST SHALL EXTEND A MINIMUM OF 42" ABOVE THE ROOF HATCH.

LADDER SAFETY POST DETAIL
 NOT TO SCALE



1 GENERAL CONSTRUCTION PLAN - AREA - G
 SCALE: 1/8" = 1'-0"

Project
FORT MILLS SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES
 Sheet Title
GENERAL CONSTRUCTION PLAN - AREA - G

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

Sheet Number:
GC201

Date: FEBRUARY 22, 2021
 Scale: As Noted
 BGA PROJECT NUMBER: 20028
 CONSTRUCTION DOCUMENTS

GENERAL CONSTRUCTION KEY NOTES

- COORDINATE LOCATION OF NEW ROOFTOP EQUIPMENT WITH MECHANICAL PLANS.
- INSTALL NEW LADDER SAFETY POST ON EXISTING ROOF ACCESS.
- SEAL AND FRAME DUCT PENETRATION THROUGH WALL AS REQUIRED.
- REPLACE ROOFING AROUND NEW ROOFTOP UNIT AND DUCTWORK AS REQUIRED.
- INSTALL NEW GUARDRAIL ATTACHED TO PARAPET. SEE DETAIL ON GC202.

Project Engineer: JEB

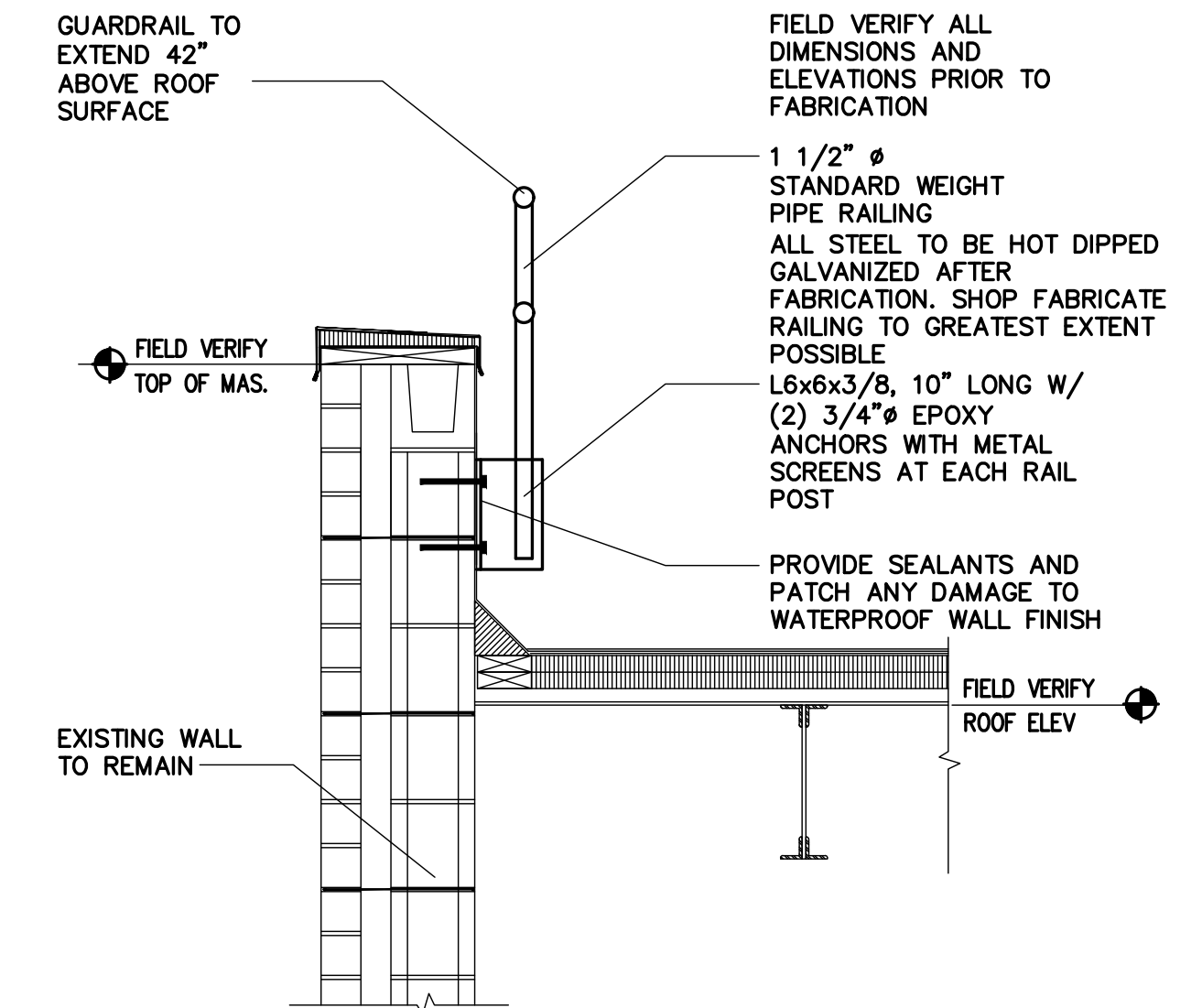
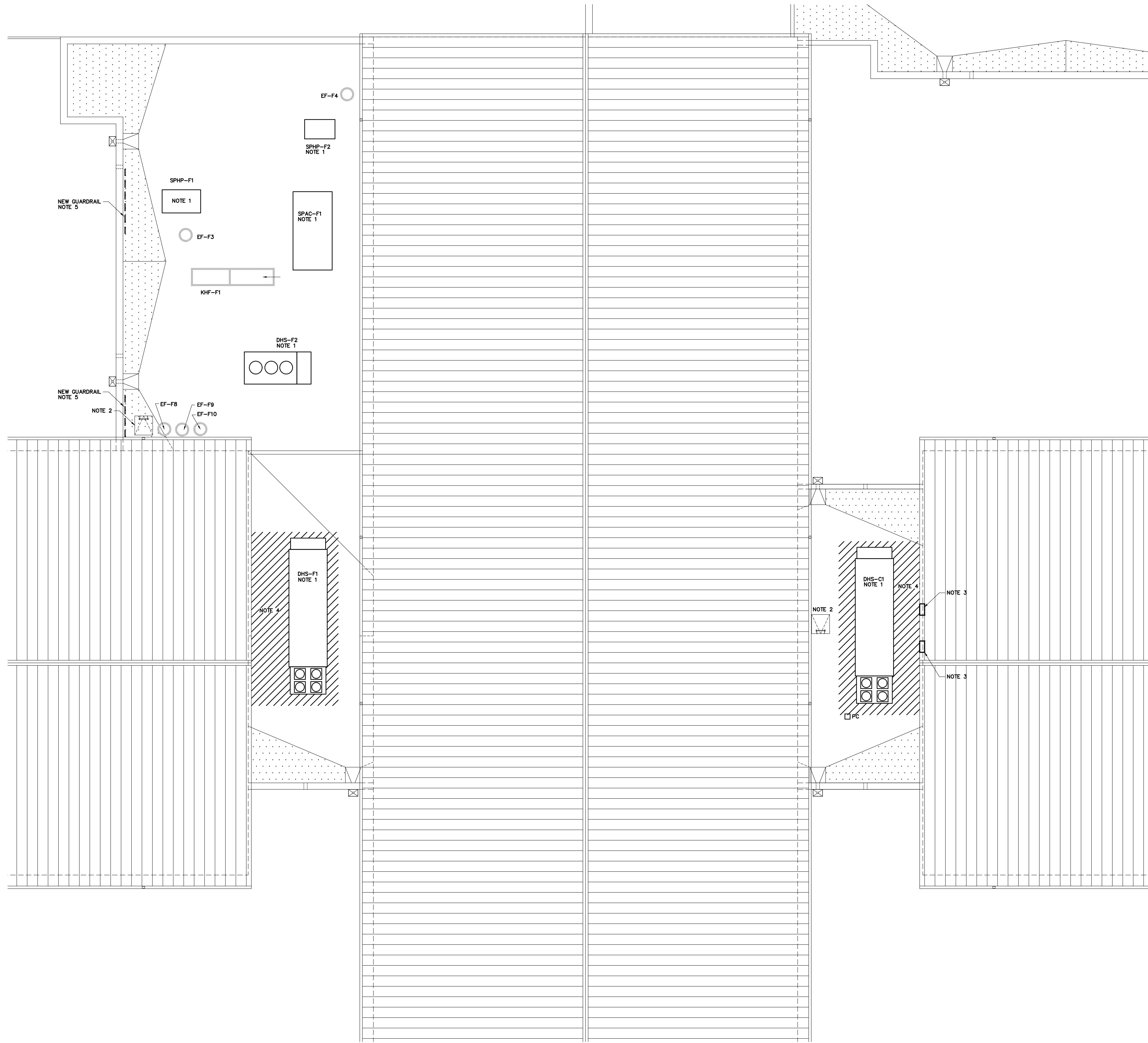
Drawn By: xxx

Revisions:

No.	1	Date	3/11/21
No.		Date	
No.		Date	

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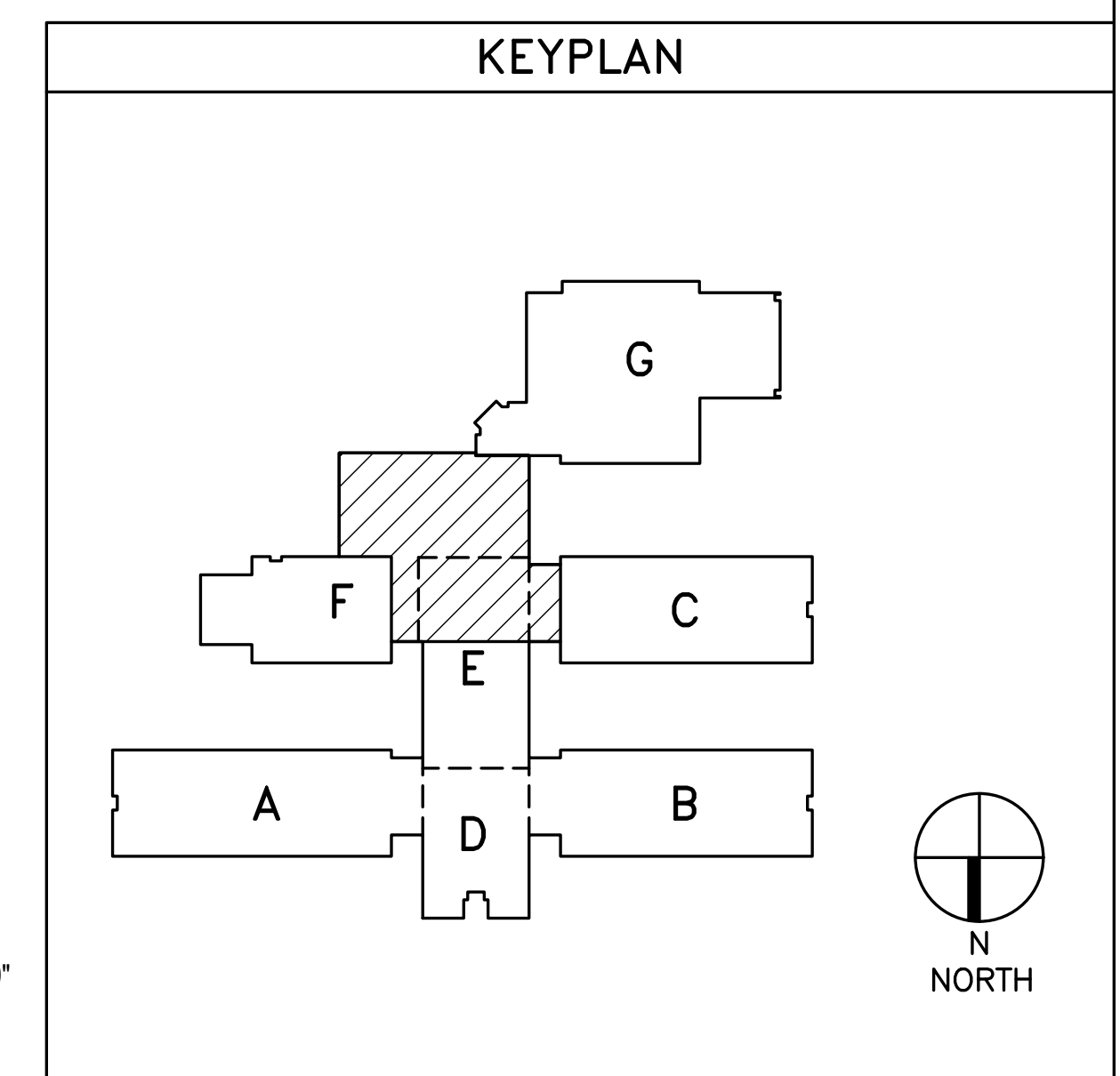
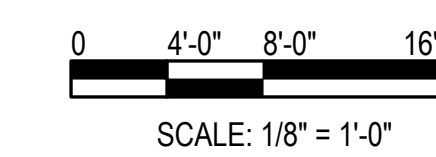


NOTES:

- GUARDRAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2018 SOUTH CAROLINA MECHANICAL CODE AND OSHA REQUIREMENTS.
- GUARDRAIL SHALL BE DESIGNED TO PREVENT THE PASSAGE OF A 21-IN-DIAMETER SPHERE AND EXTEND A MINIMUM OF 48" BEYOND THE EQUIPMENT OR ROOF HATCH.

2 GC202 GUARDRAIL DETAIL
SCALE: NTS

1 GC202 GENERAL CONSTRUCTION PLAN - AREA - C, E, F
SCALE: 1/8" = 1'-0"



Project: FORT MILLS SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES
 Sheet Title: GENERAL CONSTRUCTION PLAN - AREA - C, E, F

Buford Goff
 & Associates, Inc.
 Engineers & Planners

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

Sheet Number:

GC202

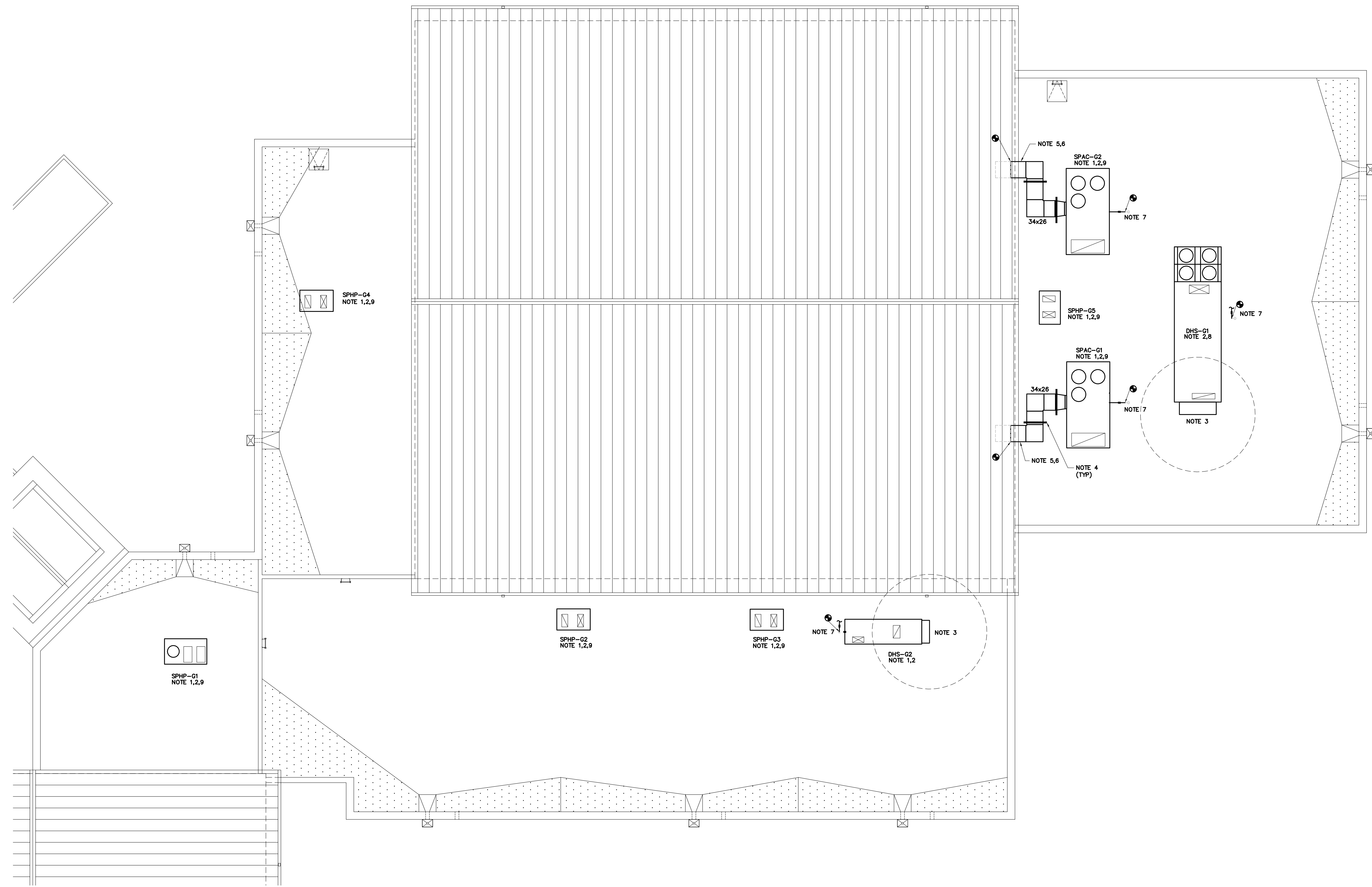
Date: FEBRUARY 22, 2021
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 BGA PROJECT NUMBER: 20028
 CONSTRUCTION DOCUMENTS

HVAC RENOVATION KEY NOTES

1. INSTALL NEW UNITS ON ADAPTER CURB. COORDINATE SIZE OF NEW CURB WITH EXISTING CURB DIMENSIONS. ATTACH NEW CURB TO EXISTING CURB.
2. PROVIDE DEEP SEAL P-TRAP AND ROUTE CONDENSATE TO DOWNSPOUT.
3. OUTSIDE AIR INTAKE. NO PLUMBING VENTS SHALL BE WITHIN 10 FEET OF THE INTAKE.
4. PROVIDE NEW DUCT ROOF DUCT SUPPORTS. SEE DETAIL.
5. FIELD VERIFY EXISTING DUCT SIZE.
6. ROUTE DUAL WALL DUCT THROUGH EXTERIOR WALL AND TRANSITION TO CONNECT TO EXISTING DUCTWORK. PENETRATE EXTERIOR WALL HIGH ENOUGH TO ALLOW WATERPROOFING UNDER DUCTWORK.
7. CONNECT TO EXISTING GAS LINE AND ROUTE GAS TO UNIT CONNECTION. PROVIDE NEW GAS REGULATOR FOR THE UNIT. SEE CONNECTION DETAIL.
8. INSTALL NEW UNIT ON NEW VIBRATION ISOLATION CURB. COORDINATE EXACT CURB LOCATION WITH STRUCTURE BELOW. RECONNECT DUCTWORK BELOW TO NEW UNIT CONNECTIONS.
9. PROVIDE NEW COMBINATION SPACE THERMOSTAT AND HUMIDITY SENSOR. LOCATE NEW THERMOSTAT/HUMIDITY SENSOR IN THE SAME APPROXIMATE LOCATION AS THE EXISTING. MOUNT DEVICES AT ADA HEIGHTS. SEE DETAIL.

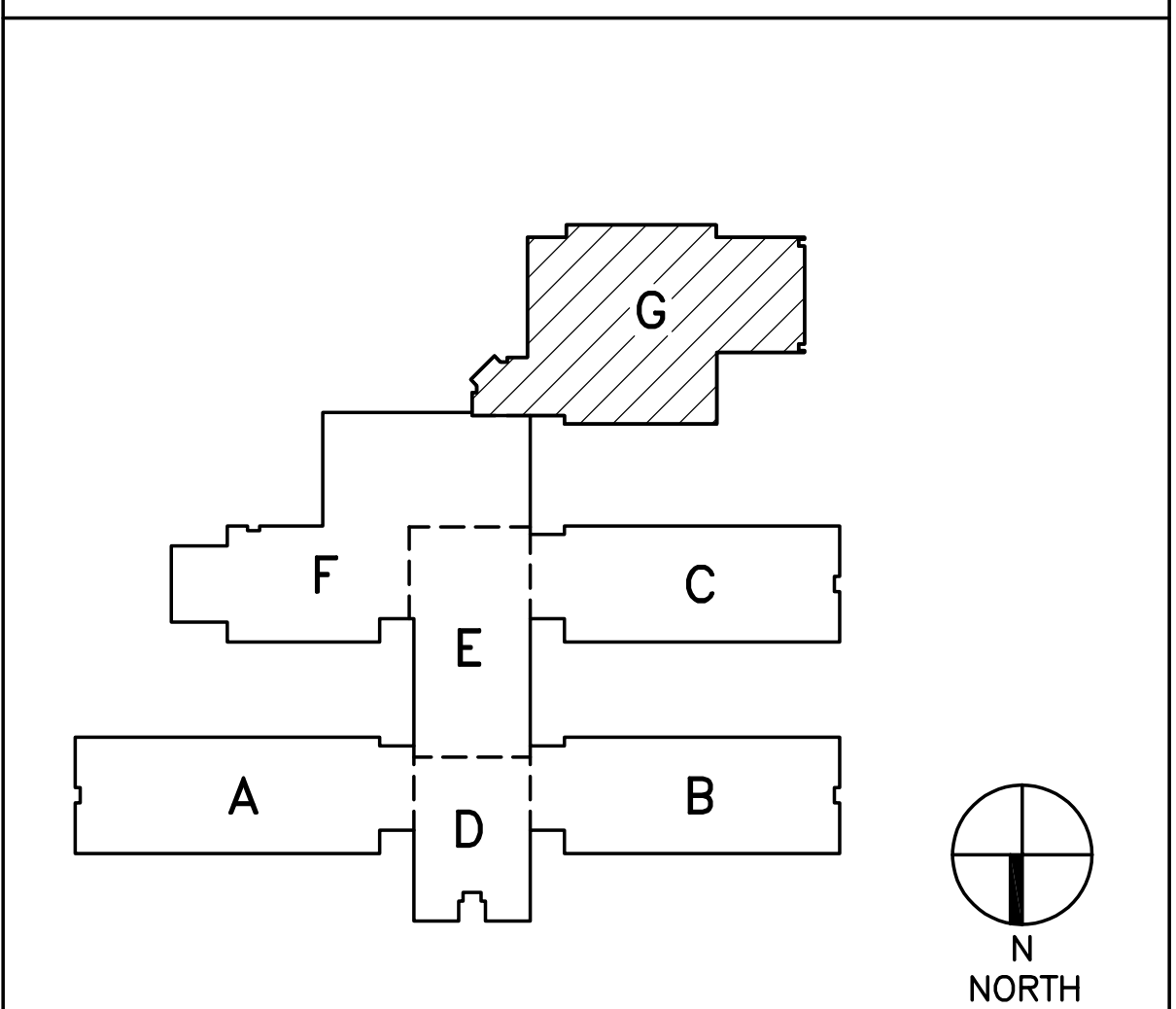
Project Engineer: JEB
 Drawn By: JEB
 Revisions:
 No. 1 Date: 3/11/21
 No. _____ Date: _____
 No. _____ Date: _____

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1 MECHANICAL ROOF PLAN - AREA - G
 SCALE: 1/8" = 1'-0"

KEYPLAN



Project
 Sheet Title

FORT MILLS SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES
 MECHANICAL ROOF PLAN - AREA - G

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

Sheet Number:
M201

Date: FEBRUARY 22, 2021
 Scale: As Noted
 BGA PROJECT NUMBER: 20028
 CONSTRUCTION DOCUMENTS

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. (SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS) 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 DEVICES 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: 0.233; Sd1: 0.137	
WIND DESIGN	
BASIC WIND SPEED: 119 MPH	
EXPOSURE CATEGORY: B	
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		BACS-1 BUILDING AUTOMATION CONTROL SYSTEM NO. 1
	RETURN AIR GRILLE		SWITCH
	EXHAUST AIR GRILLE		THERMOSTAT/SENSOR
	DUCT TURNED TO		HUMIDISTAT/HUMIDITY SENSOR
	DUCT TURNED AWAY		FLEX CONNECTION (DUCT)
	DUCT CAPPED		FILTER SECTION
	EQUIPMENT LOCATED ON ROOF		DUCT SMOKE DETECTORS
	INSIDE DUCT DIMENSION		CONTROL WIRING
	OPPOSED BLADE VOLUME DAMPER		ACCESS DOOR
	FIRE DAMPER (FUSIBLE LINK)		CLEANOUT
	120V POWER IN J-BOX		AIR DISTRIBUTION (OTHER SYMBOLS SIM.)
	MOTORIZED DAMPER		LIGHT SWITCH
	CONCEALED REGULATOR		CO ₂ SENSOR
	POUNDS (OR NUMBER)		
	FIRE ALARM CONTROL PANEL		

S3960

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
CE-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
		WHP-1	WALL MOUNTED HEAT PUMP NO. 1
		ZPOS	TWO POSITION

S3956

SINGLE PACKAGE HEAT PUMP UNIT SCHEDULE

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) TOT	SENS	OUTDOOR DB T	ENT AIR DB	WB	LVG AIR DB	WB	EER(b)		ENT T	MBH	COP			MCA	MOCOP	VOLT/PH
SPHP-F1	0.5	4000	-	1.6	1	-	2.75	1	14.4	18	480/3	108.1	88.8	95	76	64	54.5	54.4	11.0	47	101.3	-	1500	51	60	480/3	TRANE WSC120	1 2 3 4 5
SPHP-F2	0.5	1200	-	0.6	1	-	0.75	1	6.6	6	480/3	36.3	27.3	95	76	64	52.6	52.5	12.1	47	35.5	-	900	20	20	480/3	TRANE WSC036	1 2 3 4 5
SPHP-G1	0.5	2200	160	1.6	1	-	1.0	1	10.6	18	480/3	71.6	50.1	95	76	64	54.0	52.3	11.4	47	68.2	-	1300	44	45	480/3	TRANE WSC072	1 2 3 4 5
SPHP-G2	0.5	1300	220	0.7	1	-	1.0	1	6.3	6	480/3	44.7	31.8	95	76	64	50.9	50.8	12.3	47	46.9	-	1000	21	25	480/3	TRANE WSC048	1 2 3 4 5
SPHP-G3	0.5	1300	220	0.7	1	-	1.0	1	6.3	6	480/3	44.7	31.8	95	76	64	50.9	50.8	12.3	47	46.9	-	1000	21	25	480/3	TRANE WSC048	1 2 3 4 5
SPHP-G4	0.5	1200	-	0.6	1	-	0.75	1	6.6	6	480/3	36.3	27.3	95	76	64	52.6	52.5	12.1	47	35.5	-	900	20	20	480/3	TRANE WSC036	1 2 3 4 5
SPHP-G5	0.5	960	-	0.6	1	-	0.75	1	6.6	6	480/3	35.2	24.4	95	76	64	49.8	49.8	12.1	47	35.1	-	900	20	20	480/3	TRANE WSC036	1 2 3 4 5

- * INCLUDES DUCT, GRILLES, AND LOADED FILTERS (a) INCHES WG (b) ARI CONDITIONS
- 1 ADAPTER CURB 2 SINGLE POINT POWER 3 STAGED HEAT 4 BIPOLAR IONIZATION

(a) INCHES WG

(b) ARI CONDITIONS

1 ADAPTER CURB

2 SINGLE POINT POWER

3 STAGED HEAT

4 BIPOLAR IONIZATION

1 ADAPTER CURB

2 SINGLE POINT POWER

3 STAGED HEAT

4 BIPOLAR IONIZATION

SINGLE PACKAGE AIR CONDITIONING SCHEDULE

AIR CONDITIONER #	EST * SP(a)	CFM		FANS				COMPRESSOR 1		COMPRESSOR 2		GAS HEAT		COOLING COIL CAPACITY						MAX. WEIGHT #	ELECTRIC			MANUFACTURER AND MODEL	REMARKS			
		TOT	OA	OUTDOOR kW	NO	BHP	HP	NO	RLA	NO	RLA	CFH INPUT	MBH OUTPUT	IN WG	MBH (NET) TOT	SENS	OUTDOOR DB T	ENT AIR DB	WB		LVG AIR DB	WB	EER(b)			MCA	MOCOP	VOLT/PH
SPAC-F1	0.75	12000	2500	0.01	3	6.9	7.5	1	14.1	2	19.2	350	280	7-14	363.0	272.9	95	76	64	54.0	53.2	10.5	5000	77.6	90	460/3	TRANE YCD420	2 3 4 5 6 7 8 9 10 11 12
SPAC-G1	0.75	9000	3375	0.01	3	3.77	7.5	1	14.1	2	16.8	350	280	7-14	307.4	221.4	95	76	64	52.7	51.9	11.0	4750	72.2	80	460/3	TRANE YCH330	2 3 4 5 6 7 8 9 10 11 12
SPAC-G2	0.75	9000	3375	0.01	3	3.77	7.5	1	14.1	2	16.8	350	280	7-14	307.4	221.4	95	76	64	52.7	51.9	11.0	4750	72.2	80	460/3	TRANE YCH330	2 3 4 5 6 7 8 9 10 11 12

- * INCLUDES DUCT, GRILLES, AND LOADED FILTERS (a) INCHES WG (b) ARI CONDITIONS ** UNIT LEAVING AIR TEMP
- 1 PROVIDE START CAPACITOR FOR SINGLE PHASE UNITS 2 DOWN DISCHARGE 3 HORIZONTAL DISCHARGE (SUPPLY) 4 HORIZONTAL DISCHARGE (SUPPLY) 5 SUPPLY FAN VFD 6 ADAPTER CURB 7 MODULATING HOT GAS REHEAT TO 72 DEG.
- 2 LOW AMBIENT CONTROL TO 0°F 3 SINGLE PT CONNECTION 4 2 STAGE GAS HEAT 5 BIPOLAR IONIZATION 6 5 STAGES OF CAPACITY (MIN 25%) 7 SZVAV

S3252C

DEHUMIDIFICATION SYSTEM SCHEDULE

AIR CONDITIONER #	SUPPLY		EXHAUST				OUTDOOR		COMPRESSOR 1		COMPRESSOR 2		GAS HEAT		COOLING COIL CAPACITY						MAX. WEIGHT #	ELECTRIC			MANUFACTURER AND MODEL	REMARKS					
	CFM	ESP(a)	BHP	HP	CFM	ESP(a)	BHP	HP	FLA	NO	NO	RLA	CFH INPUT	MBH OUTPUT	IN WG	MBH (NET) TOT	SENS	OUTDOOR DB T	ENT AIR DB	WB		LVG AIR DB	WB	EER(b)			MCA	MOCOP	VOLT/PH		
DHS-A1	3500	1.0	2.8	4.4	1800	1.0	1.1	5.7	2	4	1	25.7	1	25.7	176	140	7-14	349	134	95	86.8	75.8	52	52	10.6	7500	79	100	460/3	ANNEXAIR ERP	2 3 4 5 6 7 8 9 10 11 12 13 14 15
DHS-B1	3300	1.0	2.6	4.4	1700	1.0	1.0	5.7	2	4	1	25.7	1	25.7	170	135	7-14	329	128	95	87.1	75.9	52	52	10.6	7500	79	100	460/3	ANNEXAIR ERP	2 3 4 5 6 7 8 9 10 11 12 13 14 15
DHS-C1	3300	1.0	2.6	4.4	1700	1.0	1.0	5.7	2	4	1	25.7	1	25.7	170	135	7-14	329	128	95	87.1	75.9	52	52	10.6	7500	79	100	460/3	ANNEXAIR ERP	2 3 4 5 6 7 8 9 10 11 12 13 14 15
DHS-D1	720	1.0	0.3	6.0	-	-	-	-	2.1	1	1	9.7	-	-	50	40	7-14	69.4	35.6	95	95	78	49.8	49.0	13	1500	23.3	30	460/3	TRANE OABD072	2 3 4 5 6 7 8 9 10 11 12 13 14
DHS-F1	4000	1.0	3.4	4.4	1600	1.0	1.0	5.7	2.8/2	2/2	1	41.6	1	20.8	221	176	7-14	398	159	95	88.0	75.7	52	52	10.5	7700	91	110	460/3	ANNEXAIR ERP	2 3 4 5 6 7 8 9 10 11 12 13 14 15
DHS-F2	2500	1.0	1.0	6.0	-	-	-	-	2.1	3	1	14.7	1	14.7	200	160	7-14	241	115	95	95	80	53	52.8	12.5	3500	47.4	60	460/3	TRANE OAGD240	2 3 4 5 6 7 8 9 10 11 12 13 14
DHS-G1	6750	1.0	5.8	6.7	4200	1.0	2.6	4.4	2.2	4	1	25.7	3	25.7	310	247	7-14	673	250	95	85.6	75.3	52	52	10.5	11000	136	150	460/3	ANNEXAIR ERP	2 3 4 5 6 7 8 9 10 11 12 13 14 15
DHS-G2	600	1.0	0.2	6.0	1200	1.0	0.3	6.0	2.1	1	1	7.8	-	-	50	40	7-14	50.4	26.6	95	95	78	54.3	53.8	12.8	1500	23.3	30	460/3	TRANE OABD048	2 3 4 5 6 7 8 9 10 11 12 13 14 15

- * INCLUDES DUCT, GRILLES, AND LOADED FILTERS (a) INCHES WG (b) ARI CONDITIONS ** UNIT LEAVING AIR TEMP
- 1 PROVIDE START CAPACITOR FOR SINGLE PHASE UNITS 2 PROVIDE MOTORIZED OA DAMPER 3 HORIZONTAL DISCHARGE 4 MODULATING HOT GAS REHEAT TO 72 DEG. 5 VARIABLE SPEED COMPRESSORS 6 SUPPLY FAN VFDS 7 ADAPTER CURB 8 AIRFLOW MEASURING STATION (EXHAUST) BY BAS CONTRACTOR
- 2 LOW AMBIENT CONTROL TO 30°F 3 SINGLE PT CONNECTION 4 10:1 TURNDOWN GAS BURNER 5 DIRECT DRIVE MOTOR 6 VIBRATION ISOLATION CURB 7 DOWN DISCHARGE 8 AIRFLOW MEASURING STATION (SUPPLY) BY BAS CONTRACTOR

S3252C

ENTHALPY PLATE HEAT EXCHANGER SCHEDULE

SYSTEM	SUPPLY		EXHAUST		SUMMER PERFORMANCE						WINTER PERFORMANCE						REMARKS
	CFM	PD(a)	CFM	PD(a)	OA IN		OA OUT		EA IN		EA OUT		OA IN				

PAGE TWO

(Return Page Two with Your Offer)

HOME OFFICE ADDRESS (Address for offeror's home office / principal place of business)	NOTICE ADDRESS (Address to which all procurement and contract related notices should be sent.) (See "Notice" clause)
	Area Code - Number - Extension Facsimile
	E-mail Address

PAYMENT ADDRESS (Address to which payments will be sent.) (See "Payment" clause)	ORDER ADDRESS (Address to which purchase orders will be sent) (See "Purchase Orders and "Contract Documents" clauses)
___ Payment Address same as Home Office Address ___ Payment Address same as Notice Address (check only one)	___ Order Address same as Home Office Address ___ Order Address same as Notice Address (check only one)

ACKNOWLEDGMENT OF AMENDMENTS
 Offeror acknowledges receipt of amendments by indicating amendment number and its date of issue. (See "Amendments to Solicitation" Provision)

Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date	Amendment No.	Amendment Issue Date

DISCOUNT FOR PROMPT PAYMENT (See "Discount for Prompt Payment" clause)	10 Calendar Days (%)	20 Calendar Days (%)	30 Calendar Days (%)	___ Calendar Days (%)
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Minority Participation:

Are you a SC Certified Minority Vendor – Yes No
 If yes, SC Certification # _____

Are you a Non SC Certified Minority Vendor - Yes No

End of PAGE TWO