

#### INVITATION FOR BIDS

CCK-2590.27-1-24

AP - WHCB Office and Support Services Renovation ADDENDUM # 1 3/15/2024

IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY 03/26/2024 @ 3:00 P.M. LEXINGTON, KY TIME

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

#### **ITEM #1: BIDDER NOTICES**

- The prebid attendance log is enclosed.
- Attendance at this prebid meeting was <u>not</u> mandatory. However, all responsive bids warrant that the bidder has examined the site and local conditions (IB-3, 2iii).
- The University of Kentucky's Supplier Diversity Initiative is enclosed.
- To assist in outreach efforts, bidders are encouraged to use the following website for certified diverse firms providing goods and services in several relevant categories: <a href="https://www.mbdky.com/">https://www.mbdky.com/</a>

#### **ITEM #2: QUESTIONS AND RESPONSES**

• Refer to and incorporate within the offer, the enclosed Questions and Responses as well as the attached updated drawings & specifications.

OFFICIAL APPROVAL UNIVERSITY OF KENTUCKY	<u>SIGNATURE</u>
Patricia Pflug	
Contracting Officer / (859) 257-5409	Typed or Printed Name

University of Kentucky Purchasing Division 322 Peterson Service Building Lexington, KY 40506-0005

# PRE-BID MEETING AGENDA CCK-2590.27-1-24

# AP - WHCB OFFICE AND SUPPORT SERVICES RENOVATION

Template Updated: September 2023

Date/Time: Location:

3/6/2024 10AM

Patterson Office Tower

	The Courter Technoly	orden felley	Angele Walton	Brian Schwagman	Potricia Petro	Joe Stundivant	RYAN GRAHAM	Name
	Echanoly Dens June 10 Cons		LK COMO	0 % S.W.	ABEL CONT.		大型	Organization
	858-254-0011	50-101-055	859-536-5382	259224/38/	12-208-15G	859-713-0655	8454-155-4548	SIGN IN SHEET Phone
	· '	jordon of briolytims gray, com	Angela-Walter Couldy elice	tomith Osebarchitectoron	J DOSS @ AREL CONSTRUCT. COM	ristordivante rfiery, com	roman DKG: - eng. Com	I' E-mail address



## ADDENDUM NO. 1 University of Kentucky Asset Preservation – Renovations for Office & Support Services for White Hall Classroom Building Enabling Project

UK project No. 2590.27 SCB project No. 2364

TO: All Plan Holders

FROM: Sherman-Carter-Barnhart Architects

144 Turner Commons Drive, Suite 110

Lexington, Kentucky 40508

DATE: March 15, 2023

The purpose of this Addendum is to clarify further the requirements of the plans and specifications. The bidders are governed by the information in this Addendum as if included in the plans and specifications. This Addendum does hereby become a part of the Contract Documents. Each bidder shall acknowledge receipt of this Addendum in the space provided in the Bid Form.

This Addendum consists of fifty-seven (57) pages.

#### A. Replacement Drawings

- Cover Sheet
- 2. A0.0 General Information
- 3. A1.1 GIS Floor Plan
- 4. A1.2 Ricoh Floor Plan
- 5. A1.3 Patterson Office Towers Floor Plan, New Work for USPS, Mathskeller and Wildcat Wardrobe
- 6. A1.4 Door Schedule, Frame Elevations and Details

#### B. Questions / Response

1. Question: "Please provide spec for vinyl film."

Response: Refer to revised keynotes 17 and 18, sheet A1.3.

2. Question: "Please confirm there are no alternates on this project."

Response: There are no Alternates in this project.

3. <u>Question</u>: "Page A1.1 says to demo existing carpet tile. There is no note for new flooring in drawings or specs. What new flooring will be placed?"

<u>Response</u>: Disregard Demolition Keynote 1. Carpet and base at GIS spaces to be removed and replaced by others assigned by owner. Refer to revised sheet A1.1.

4. Question: "Does existing wall base get removed in its entirety and then replaced with new?"

Response: Refer to response to item 3 above for removal of base at GIS. At RICOH (sheet 1.2), Mathskeller, USPS & Wildcat Wardrobe (sheet A1.3), existing base is to remain. Refer to Room Finish Groups on sheet A0.0).

5. Question: "Page A1.1 detail 7 says to secure new partition to existing wall. Based on site visit, there is no existing wall in that area. Please clarify."

Response: Refer to revised detail 7, sheet A1.1.

6. Question: "All architectural pages. Are existing walls to be painted or just new partitions?"

Response: Refer to Room Finish Groups on sheet A0.0.

7. Question: "On Page A1.2, the wall surrounding the unoccupied area with the deli counter is listed as a type 4 wall which only has gypsum on one side. Do these walls only have 1 side of gypsum/painting? Please confirm."

Response: Partition type-4 (sheet A0.0) has 5/8" gypsum board on both sides metal stud framing. Fully tape / mud / clean / prime / paint side of partition adjacent to renovation. Opposite (unoccupied area) to be taped / mud / clean only (not primed / painted).

8. <u>Question</u>: "Please confirm all flooring and wall base for the entirety of the project are demo'd, furnished, and installed by the owner (UK)."

Response: Refer to response to item 3 above for GIS spaces. Refer to Room Finish Groups on sheet A0.0 for other spaces.

9. Question: "Is there any painting on the ceilings of any part of the project?"

Response: New soffits and bulkheads are to be painted. Details, 6, sheet A1.1 and details 5 &^, sheet A1.2 Refer also to Room Finish Groups on sheet A0.0.

10. Question: "Per the pre-bid meeting, UK is supplying the split systems and humidifier for the HVAC portion of this project. Are there any other components besides those and the flooring that UK is furnishing? Is there a responsibility matrix within the drawings that I am overlooking?"

<u>Response</u>: In regards to the MEP items, the only OFOI items are the indoor air handling units and outdoor condensing unit (1 split system), and the electrode steam humidifier. There is not a responsibility matrix on the MEP drawings.

11. Question: "Regarding page A1.4 we are given two options for the infill of the ceiling coffers. Are these options specific to certain coffers or will both methods be acceptable for all of them?"

Response: Refer to revised detail 8, sheet A1.4. Refer also to keynote 1 of New Work Keynotes on sheet A1.3.

12. <u>Question</u>: "On page A1.2, regarding the wall running between the corridor and the unoccupied area (with the deli bar), this wall is listed as a type 1 wall and a type 4 wall. Please clarify where one type ends and the other begins."

Response: At corridor 105b, partition type-1 (to 10'-0" AFF) occurs on the north side of the corridor (adjacent to Toner Storage 106). Partition type-4 occurs on the south side of the corridor (adjacent to unoccupied). Only the 2'-5" +/- portion (east end) of the south partition is partition type-1 FH (Full Height).

13. Question: "On page A1.2, regarding demolition note C, it says to remove existing suspended acoustical ceiling system that is bisected by new partition. According to the site visit, there is no acoustical ceiling system in that area. Please clarify the meaning of this note."

Response: An existing suspended acoustical cloud does occur at the west side of Printing 101. Refer to photo 7, sheet A1.2. The suspended acoustical cloud in the foreground of the photo exists within Printing 101. The suspended acoustical cloud in the background of the photo will be bisected by the new west wall of Printing 101 and will require select demolition and modification.

14. Question: "The drawing set in the Lynn Imaging Planroom has certain text omitted such as the Project Number on the cover page. Is it possible to get a 'clean' set of drawings that doesn't have the omitions [SIC]? It appears it may have been a software issue."

Response: Lynn Imaging corrected the font error thus correcting missing text on March 12<sup>th</sup>. Some sheets will be superseded by this addendum. Refer to attached sheets.

15. Question: "What is 'BYP. BD' on Demolition Key Note 'E' on Sheet A1.2 referring to?"

Response: Revise Demolition Keynote E to be: "Not used."

16. <u>Question</u>: "Can the Engineer supply the Spec Sheets for all OFCI HVAC Equipment?"

Response: Refer to attachments:

- a. Air Equipment Co. quote
- b. UK Purchase order with description.
- c. Condair submittals
- d. Aaon submittals
- 17. <u>Question</u>: "We wanted to confirm that the demolition of the existing Carpet Tile & Cove Base in W.T. Young is to be quoted and included in the Prime Contract?"

Response: Correct; base and flooring in new GIS space is by others. Refer also to response 3 and 4 of this addendum.

#### C. REFER TO ATTACHED FOR MPE ADDENDUM 001 ITEMS

End of Addendum No. 1

#### **INDEX TO DRAWINGS**

	SHEET LIST
SHEET NUM	BER SHEET NAME
O'ILL' ITOIT	OTEL THINE
ARCHITECTI	IRE
A0.0	GENERAL INFORMATION
A1.1	GIS FLOOR PLAN
A1.2	RICOH FLOOR PLAN
A1,3	PATTERSON OFFICE TOWER FLOOR PLAN INEW WORK FOR USPS, MATHSKELLER & WILDCAT WARDROBE
A1.4	DOOR SCHEDULE, FRAME ELEVATIONS AND DETAILS
PLUMBING	T
M0.0	MECHANICAL COVER PAGE
FO.D	FIRE PROTECTION TITLE SHEET
F1.1 F1.2	PATTERSON OFFICE TOWER FIRE PROTECTION PLAN  BLAZER DINING FIRST FLOOR FIRE PROTECTION PLAN
F1.3	WT YOUNG BASEMENT FRE PROTECTION PLAN
F123	WI TOUNG BAGEMENT PRE PROTECTION POIN
MECHANICA	L
M0.1	MECHANICAL SYMBOLS
M1,1	PATTERSON OFFICE TOWER MECHANICAL PLANS
M1.2	BLAZER DINING FIRST FLOOR MECHANICAL PLANS
M7.0	MECHANICAL DETAILS
CI COTO	
ELECTRICAL E0.0	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E1.1	PATTERSON OFFICE TOWER BLECTRICAL PLANS
E1.2	BLAZER DINING FIRST FLOOR ELECTRICAL PLANS
E1,3	WT YOUNG BASEMENT ELECTRICAL PLANS
E1.4	ELECTRICAL DETAILS

### UNIVERSITY OF KENTUCKY ASSET PRESERVATION - RENOVATIONS FOR OFFICE AND SUPPORT SERVICES FOR THE WHITE HALL CLASSROOM BUILDING ENABLING PROJECT

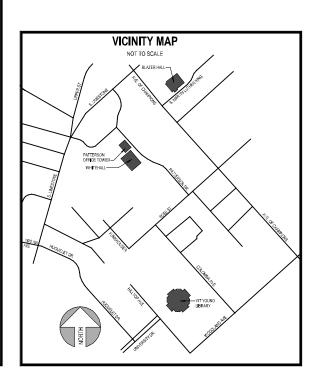
**FEBRUARY 15, 2024** 

OWNER:

UNIVERSITY OF KENTUCKY

**UK PROJECT NUMBER: 2590.27** 

**SCB PROJECT NUMBER: 2364** 





ARCHITECTS, PLLC

144 TURNER COMMONS WAY, SUITE 110 LEXINGTON, KY 40508 PHONE: 859 224 1351 FAX: 859.224.8446 www.scharchitects.com



POAGE ENGINEERS AND ASSOCIATES INC. 880 SPARTA COURT SUITE 200 LEXINGTON KY 40504 P (859) 255-9034



KFI ENGINEERS 3264 LOCH NESS DR SUITE 2 LEXINGTON, KY 40517 P (859) 271-3246 F (651) 771-0878



#### GENERAL CONDITIONS NOTES WALL / PARTITION SCHEDULE

58' GYP, 8D.

3 58' METAL
STUD FRANING
6 16' CC.
SOUND ATTN.
INSULATION

1

3

1a SAME AS 1 BUT WITHOUT SOUND ATTN, INSULATION

#### CONTRACTOR TO BARRICADE AREAS OF NEW WORK IN OCCUPED BUILDINGS TO PREVENT THE MIGRATION OF CONSTRUCTION DEARS AND DUST. ALSO, WRAP DEFUSERS AND RETURN GRILLES TO PREVENT DEBRIS AND DUST FROM ENTERING THE MECHANICAL SYSTEM.

- CONTRACTOR TO MAINTAIN ALL MEANS OF EGRESS WHILE THE BUILDING IS OCCUPIED.
- CONTRACTOR TO DISPOSE / RECYCLE DEMOLITION DEBRIS IN COMPLIANCE WITH LOCAL CROMANGES. CONTRACTOR TO PROVIDE DUMPSTER(S) FOR THEIR USE AND DETERMINE SCHEDULE FOR ACCESS WITH OWNER AT LEAST 1-WEEK IN ADVANCE OF PLANNED NEED.
- CONTRACTOR TO SCHEDULE DELIVERY OF EQUIPMENT AND MATERIALS WITH OWNER AT LEAST 1-WEEK IN ADVANCE OF PLANNED NEED.
- CONTRACTOR TO CONTACT OWNER TO SEEK PARKING PERMITS AND BEAR ANY ASSOCIATED COST.
- NO KNOWN HAZAROUS MATERIAS ARE CONTAINED IN THE WORK AREAS, IF THE CONTRACTOR DISCOVERS SUSPICIOUS MATERIAS, INEY ARE TO SUSPEND WORK HEROLINE. THEY ARE TO SUSPEND WORK HEROLINE THE OFFICE OF
- CONTRACTOR IS RESPONSIBLE FOR SECURITY WITHIN THEIR WORK AREAS, ANY LOSS CAUSED BY FAILURE TO MAINTAIN SECURITY IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE TO ANY PERMITS AND ASSOCIATED COST.
- CONTRACTOR IS RESPONSIBLE TO SCHEDULE ALL NECESSARY INSPECTIONS AND THEIR ASSOCIATED COST(S). CONTRACTOR IS RESPONSIBLE TO PROTECT EXISTING BUILDING AND FINISHES THAT ARE ACCESSED FOR REMOVAL OF DESRIR AND DELIVERY OF NEW WATERIAS, PROMISE PROTECTION SURPRICES TO LOOPS AND WALLS AS NEEDED. ANY DAMAGE IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPART OR REPLACET OTHE CONTRACTOR TO REPART OR REPLACET OTHE CONTRACTOR.
- CONTRACTOR TO PROVIDE TEMPORARY DOORS AND HARDWARE AS NEEDED IF DELIVERY DATES ARE INSUFFICIENT FOR SPECIFIED INSTALLATION TO ACHIEVE SUBSTANTIAL COMPLETION.

#### TYPICAL NEW WORK NOTES

- CONTRACTOR TO CLEAN ALL EXISTING FINISHES THROUGHOUT THE WORK.
  AREAS, CONTRACTOR TO CONTRA NAY LIQUIDS USED FOR CLEANING TO
  PREVENET MIGRACION INTO NON-MORK AREAS, ANY DAMAGE TO NON-MORK.
  AREAS IS THE RESPONSEL IT OF THE CONTRACTOR TO REPARR OR REPLACE TO
  THE OWNERS SAY ISFACTION.
- CONTRACTOR TO CLEAN ALL INTERIOR GLASS AT WINDOWS AND STOREFRONTS WITH THE WORK AREAS, ANY GLASS IN DOORS WITHIN THE WORK AREAS ARE TO BE CLEANED ON BOTH SIDES.
- PREVIOUSLY PAINTED SURFACES WITHIN THE WORK AREAS ARE TO BE CLEANED AND PAINTED. UNPAINTED SURFACES TO REMAIN AS IS (CLEAN).
- FILL ALL HOLES AND SCRAPE BURRS OR RIDGES ON EXISTING GYPSUM BOARD SURFACES, SKIM COAT ADJACENT FOR SMOOTH / CONSISTENT FINISH.
- FILL ALL HOLES IN EXISTING MASONRY WALLS TO REMAIN WITH SEALANT, AT FACE BRICK MATCH COLOR WITH SEALANT, AT CONCRETE OR CMU, FILL WITH SEALANT AND PAINT.
- FILL ALL HOLES IN EXISTING SURFACES RESULTANT FROM ARCHITECTURAL AND MPE DEMOLITION. PATCH HOLES TO MATCH EXISTING. AT GYPSUM BOARD, SKIM COAT ADJACENT FOR SIMOOTH / CONSISTENT FINISH.
- CLEAN AND PAINT ALL PREVIOUSLY PAINTED DOORS AND FRAMES IN WORK AREAS. DO NOT PAINT HARDIVARE OR LABELS; PROTECT.
- PROVIDE HRESTOPPING SEALANTS AT ANY DISRUPTED INTERSECTIONS, EDGES FROM INEW WORK AT STARES, CHASES, HOSTIVAY'S OR RATED WALLS, PROVIDE 3M (OR EQUILA, FIESTOPPING SEALANT RATED FOR UP TO 2-HOURS, INSTALL PER MANUFACTURER'S INSTRUCTIONS.

#### HAZARDOUS MATERIAL NOTES

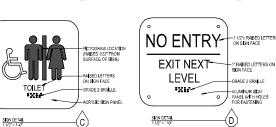
- IN THE DISTING BULDING IT IS POSSIBLE HAZARDOUS MATERIALS MAY EMST, NOLUDRA, BUT NOT LIMITED TO ASSESTED PRODUCTS, POLYCHICHNATED PRIPHING HIGH SOUTHER TOOK SHEET NAMES. FAM YOUNG FRISH OF THE PRIPHING HIGH SHEET SUBJECT MOST THE PRIPHING HIGH SHEET SH
- THE CONTRACTOR IS HEREBY ADVISED THAT SHERMANCARTER-DARWHART, PILL IS NOT A DESIGN FROM SESSIONAL IN THE LET ERROWLING OF THE PRESENCE OF PROFESSIONAL PROJECT SHOWN, WINCLES HAWARD SECOMERAD THAT SHEARING THE TESTING REMOVAL BICAPISAL PRICATE OF THE CORRECTIVE LEASURES PERTANNING TO MAZAROUS MITHERIALS.
- IF THE WORK WHICH IS TO BE PERFORMED UNDER THE CONTRACT INTERFACES IN ANY WAYWITH THE ENSTING COMPONENTS WHICH CONTRAIN MAZAROUS MATERIALS. IF, IT THE CONTRACTORS RESPONDED IN TO CONTRACT THE COVER'S ENVIRONMENTAL CONTRACT AND THE PROPER MEANS AND METHODS TO BE UTILIZED IN CALL IN WITH HAZAROUS MATERIALS.
- BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR HEREBY AGREES TO RETING NO CLAIM FOR NEGLIGENCE, SPRACH OF CONTRACT, INSENSITY OF OTHERWISE, ADMINIST THE ARCHITECT, HIS PRINCIPALS, SUPLOYEES, ABOUTS OR CONSULTANTS IF SUCH A CLAIM VIAW YOUND INVOLVE THE INSESTRATION OF REMEMBER, WORK RELIABLE TO HEAD OF A CLAIM VIAW YOUND INVOLVE THE INSESTRATION OF REMEMBER, WORK RELIABLE TO HEAD OF REMEMBER, WORK RELIABLE TO HEAD. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH ASSESTOS OF

EXIT

SIGN DETAIL

1215-

#### 10Ô--RAISED NUMBERS ON SIGN FACE Message -GRADE 2 BRAILLE 1X16-**−**(B) SIGN DETAIL



GRADE 2 BRAILLE

–(A)

#### PARTITION TYPE GENERAL NOTES: 0'-0' INDICATES HEIGHT OF PARTITION.

FH FULL HEIGHT TO UNDERSIDE OF DECK, U.N.O.

UC ABUT TO UNDER SIDE OF EXISTING CEILING.

PARTITION TO EXTEND TO UNDERSIDE OF DECKISLAB ABOVE W/METAL STUD FRAMING AT 16° O.C. / SOUND BATT INSUL. / 5.8° GYP. BD. BOTH SIDES. AT DONDITIONS WHERE MORE THAN ONE WALL TYPE IS INDICATED, REFER TO REFERENCED SECTIONS, ELEVATIONS AND DETAILS FOR CLARIFICATION.

PARTITION TYPES SHALL MAINTAIN THEIR RESPECTIVE SEPARATION RATING (IF AMY) FOR FULL HEIGHT. ALL MECH, ELEC, AND PLUMPING PENETRATIONS SHALL BE SEALED (SAFED / DAMPERED AS REQUIRED TO COMPLY WITH APPLICABLE CODES.

REFER TO SPECIFIED FIRESTOPPING MEASURES REQUIRED AT ALL RATED WALL ASSEMBLIES AND AS FOLLOWS: (REFER TO DETAILS FOR SPECIFIC CONDITION).

PROVIDE THE FOLLOWING CLOSURE MATERIALS AT TOP OF WALLS AND PARTITIONS.
(a) FULL-HEIGHT NON-RATED WALLS: FILL VOIDS WITH BATT INSULATION. (b) RATED FULL HEIGHT WALLS: FILL VOIDS WITH FIRE SAFING AND INSTALL BACKER ROD AND FIRE RATED SEALANT ON EACH SIDE OF WALL.

ALL DIMENSIONS ARE TO FACE OF STUDS, OR TO CENTERLINE OF STRUCTURAL STEEL UNLESS NOTED OTHERWISE. REFER TO STRUCT DWGS FOR REQUIREMENTS AND LOCATIONS OF WALLS TO RECEIVE VERTICAL REINFORCING.

PROVIDE HIGH ABUSE/MOLD RESISTANT GYP BD. TO 6'-0" AFF

PROVIDE WATER / MOLD RESISTANT GYP. BD. FULL HEIGHT AT WET AREA APPLICATIONS, IN ADDITION TO HIGH IMPACTMOUD RESISTANT REQUIREMENTS.

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UNIVERSITY OF KENTUCKY ASSET PRESERVATION - RENOVATIONS FOR OFFICE AND SUPPORT SERVICES FOR I WHITE HALL CLASSROOM BUILDING ENABLING PROJECT

INFORMATION

**ERAL** 

AT ALL GYPSUM BOARD OUTSIDE CORNERS EXTENDING TO FLOOR, INSTALL HIGH ABUSE RESILIENT CORNER GUARDS FROM 6\* TO 7-4\* A.F.F.

AT RATED GYPSUM ASSEMBLIES USE TYPE "X" GYP. BD., FULL HT. PROVIDE TILE BACKERBOARD AT ALL TILE LOCATIONS

#### INTERIOR WALL TYPES

4

2

- INSULATION

#### ROOM FINISH GROUPS



FLOOR - OWINER FURNISHED - OWINER INSTALLED (OF OL-BASE - OWINER RUNNISHED - OWINER INSTALLED (OFF OL-WALLS - FLLANY EXERTION FOLES AND AREAS OF DAMAGE TO BE FLUSH WITH ADJACENT; CLEAN AND PAINT, PAINT NEW PROFITCHING

PARTITIONS
CELLINGS EXISTING TO REMAIN; PROTECT FLOOR EXISTING, CLEAN
BASE DISTING, CLEAN
WALLS CLEAN AND PANT PREVIOUSLY PAINTED SURFACES.
PAINT NEW PARTITIONS
CHLINGS EXISTING, PROTECT, PAINT AREAS OF NEW INFILL.

NAME UK: %

PROVIDE PENETRATION FRESTOPPING AT ANY LOCATIONS IN HORIZONTAL ASSEMBLES WHERE IPPING FOONDUIT ARE REMOVED WITH A RESULTANT HOLE, PROVIDE 3M (OR EQUAL) FIRESTOP PLUG RATED FOR UP TO 2 HOURS OF DIAMETER NEEDED TO FIT HOLE, INSTALL PER MANUFACTURERS INSTRUCTIONS.

#### FLOOR DISTINC; CLEAN PROVIDE MISSING WITH, BASE TO MISSING PROVIDE AND PROVIDE MISSING AND BASE TO MISSING AND PROVIDE AT NEW WALLS CLEAN AND PAINT PREVIDUSLY PAINTED SURFACES PAINT NEW PROVIDES. POWER AND PAINT PROVIDED TO MISSING POWER PAINT PAINT AREAS OF NEW INFILL. FLOOR - EXEMPL CLEAN BASE - DESTING CLEAN PROVIDE MISSING MAY, BASE TO MATCH DESTING OFFER BASING WALLS - IL ANY EXISTING HOLES AND AREAS OF DAMAGE TO BE FLUSHWITH ADJACENT, CLEAN AND PART, PART NEW ARREST ONE OFFER BASE PARTITIONS CELUNGS EXISTING; PROTECT

FLOOR - EXISTING: CLEAN, PATCH AREAS OF MISSING TILE, AS CLOSELY AS POSSIBLE WINTLESSED WATCH EXISTING WALLS - FLUMY EXISTING LOCAL AND PART, PAINT NEW FLOOR FLUSH WITH ADJACENT; CLEAN AND PART, PAINT NEW CHLINGS EXISTING SUSPENDED CELLINGS PROTECT (REFER TO

FLOOR DUSTING, CLEAN,
BASE DUSTING, ITRIA'S NEEDED FOR DEMOLITION.
WALLS DUSTING, FROM WALLS FOR NEW OPENING, PAINT AREAS
OF NEW WORK,
CHLINGS DESTINATO REMAIN PROTECT.

#### FLOOR EXISTING TO REMAIN PROTECT. BASE EXISTING TO REMAIN PROTECT. WALLS EXISTING TO REMAIN PROTECT, NOTE: ADJACENT NEW PARTITIONS TO BE TAPED AND MUD ONLY (NOT PRINED.) PAINTED). CELLINGS EXISTING TO REMAIN PROTECT.

#### SYMBOLS LEGEND

EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE, REFER TO DOOR SCHEDULE

NEW DOOR, REFER TO DOOR SCHEDULE - DOOR NUMBER, REFER TO DOOR SCHEDULE Name ROOM NUMBER
ROOM FINISH GROUPS (REFER TO SHEET ALU)

 $\odot$ SIGNAGE KEY NOTE X---WALL TYPE, REFER TO 40.0

♦ NEW WORK KEYNOTES, REFER TO PLANS  $\boxtimes$ DEMOLITION KEY NOTE, REFER TO PLANS

FRANE TYPE, REFER TO SHEET A1.4

INTERIOR FLEVATIONS

Δ

#### **GENERAL NOTES**

- (NIC) NOT IN CONTRACT. TO BE PROVIDED BY OWNER AND INSTALLED BY OWNER (OFCI) OWNER FURNISHED CONTRACTOR INSTALLED.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

ALL CHANGES IN FLOOR FINISHES SHALL OCCUR BELOW THE DOOR - TYPICAL,

CONTRACTOR SHALL PROVIDE ALL CONCEALED BLOCKING REQUIRED FOR ATTACHMENT AND SUPPORT OF NOTED EQUIPMENT AND NEW PARTITIONS, WINDOWS, ETC. THAT ABUT EXISTING CONSTRUCTION.

ALL CONCEALED WOOD FRAMING AND PLYWOOD SHALL BE FREE-TARDANT TREATED (PRT EXCEPT THAT NOME AT, I BLOCKING, NALERS AND FURRINS MAY BI USED WHERE NATALLED IN ACCORDING WITH IRES ESTED IN SINCLUDIED DIMENSIONAL WOOD BLOCKING. FREE BLOCKING REQUIREMENTS, ETC.), WOOD BLOCKING INSTALLED IN ACCORDING THE BLOCKING INFO.

ALL MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS THROUG SHALL BE SEALED / SAFED / DAMPERED AS REQUIRED TO COMPLY WITH APPLICABLE CODES, ANY ANCILLARY / ANNII AS SOACE BETWEEN AND A STALLE COLLED A SPEED FAMPERED AS REQUIRED TO COMPLY WITH APPLICABLE CODES, ANY MOCLLARY ANNULAR SPACE BETWEEN DUCTWORK AND FLOOR SLAB OR PLANK / PARTITION MUST BE SEALED W/ APPROVED NON-COMBUST BLE MATERIAL

WHERE GLASS STOPS ARE ON PUBLIC SIDE OF FRAME, PROVIDE TAMPER RESISTANT SCREWS.

REPAIR ALL DAMAGE AND TOUCH-UP PAINT IN AREAS OUTSIDE OF WORK AREA EFFECTED BY WORK.

#### GENERAL SIGNAGE NOTES

CHARACTERS SHOWN ON THIS SHEET ARE COMPUTER GENERATED. SPACING OF CHARACTERS IS NOT ACCURATE, CORRECT "VISUAL" SPACING IS THE RESPONSIBILITY OF THE MANUFACTURED.

PICTOGRAMS ARE SHOWN HEREIN FOR INFORMATION AND INTENT ONLY, MECHANICA CAMERA - READY ARTWORK SHALL BE SUPPLIED BY THE SIGNAGE CONTRACTOR. COLORS OF PANEL SIGNS TO BE SELECTED BY OWNER,

. UNLESS OTHERWISE NOTED, ALL SIGNS TO BE MOUNTED BESIDE DOORS AT SAY AFF, TO CENTER OF SIGN AND 2" FROM EDGE OF DOOR FRAME ON THE STRIKE SIDE. THE ARCHITECT SHALL BE COUNSULTED BEFORE PLACEMENT OF SIGNAGE FOR LEFTHAND AND RIGHTHAND ORIENTATION OF SIGNA.

UNLESS OTHERWISE NOTED, ALL SIGNS TO BE MOUNTED UNDER WINDOWS OR SIDELITES SHALL BE MOUNTED 2" FROM BOTTOM OF SILL TO TOP EDGE OF SIGN AND CENTERED ON THE WINDOW.

ALL SIGNAGE SHALL MEET REQUIREMENTS OF ADAAG OF THE AMERICANS WITH DISABILITIES ACT (ADA).

MESSAGE (COPY) TO BE DETERMINED BY OWNER.

ALL SIGNS TO BE 8"x8", U.N.O. ROOM NAMES AND NUMBERS SHOWN HERE ARE FOR CONSTRUCTION PURPOSES ONLY.
FINAL ROOM NAMING AND NUMBERING FOR SIGNAGE SHALL BE
PROVIDED BY OWNER.

O. ALL SIGNAGE SHOWN MOUNTED ON H.M. OR ALUM, STOREFRONT FRAMES TO BE FULLY ADHERED TO THE GLASS 5°0° A.F.F. WITH FINSHED BACK PANEL.

A0.0

2364 UNIV 3/15/2

SHEET

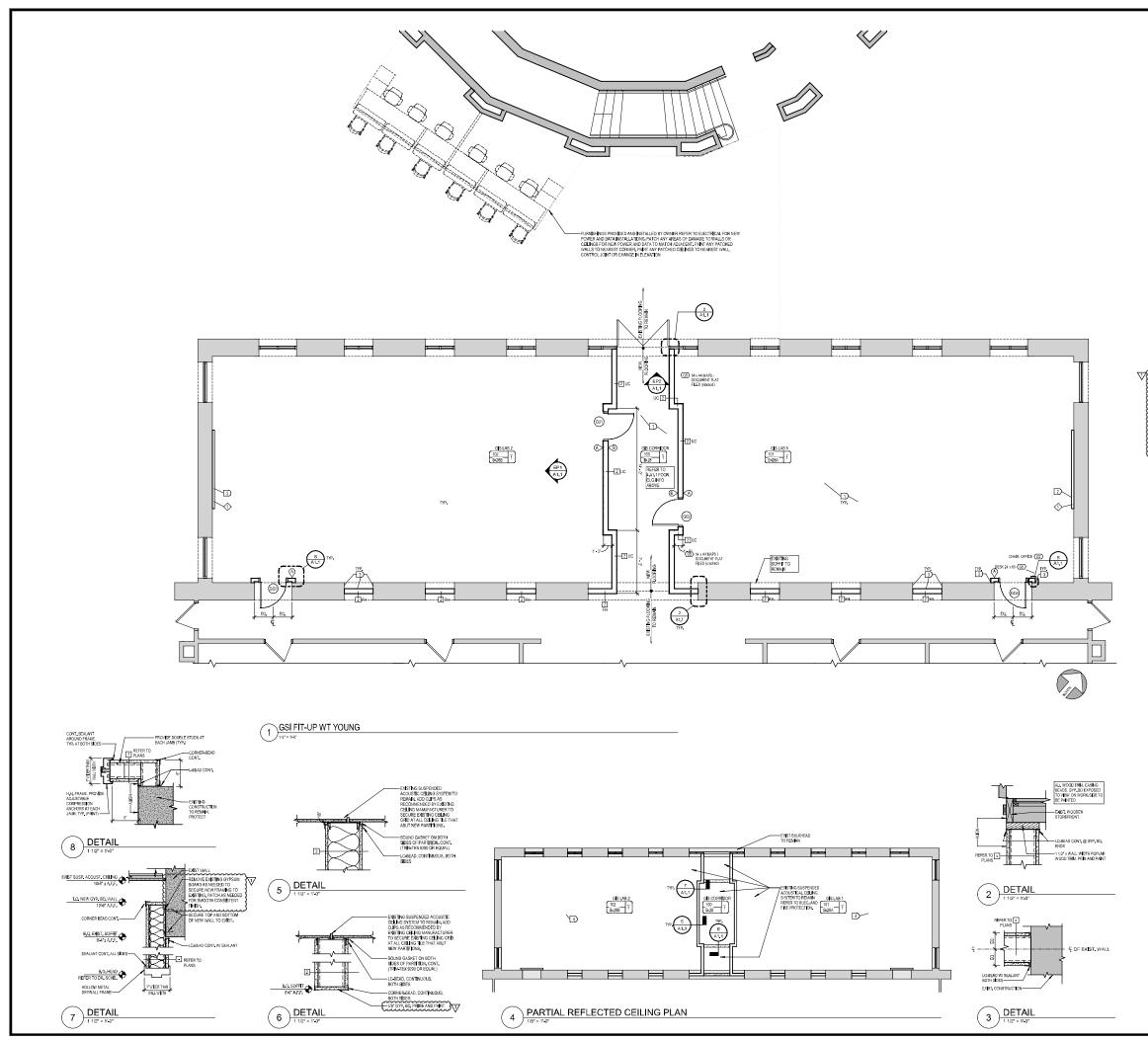
DATE

DRAWN # , KJL

CHECKED TSS, BKL

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REVISIONS Date ADDENDUM 3/15/







9 EXISTING PHOTOS

#### OWNER FURNISHED, OWNER INSTALLED ITEMS

REMOVAL OF EXISTING BASE AND FLOORING AND INSTALLATION OF NEW BASE AN FLOORING BY OWNER, N.LC.

#### □ DEMOLITION KEY NOTES

#### ♦ NEW WORK KEY NOTES

#### CEILING PLAN NOTES

EXISTING SUSPENDED ACCUSTICAL CELLING SYSTEM TO REMAIN, PROTECT, PROPERL SET ANY IMPROPERLY INSTALLED CELLING TILE

#### SYMBOLS LEGEND

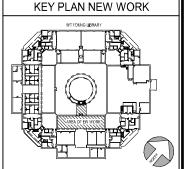
- DOOR NUMBER, REFER TO DOOR SCHEDULE

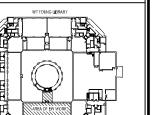
 $\odot$ SIGNAGE KEY NOTE

X ♦ NEW WORK KEY NOTES, REFER TO PLANS

 $\boxtimes$  $\triangle$ 

1 INTERIOR ELEVATIONS





SHEET **A1.1** 

UNIVERSITY OF KENTUCKY ASSET PRESERVATION - RENOVATIONS FOR OFFICE AND SUPPORT SERVICES FOR THE WHITE HALL CLASSROOM BUILDING ENABLING PROJECT

**FLOOR PLAN** 

DATE

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REVISIONS
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ADDENDUM 3/15.

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UNIVERSITY OF KENTUCKY ASSET PRESERVATION - RENOVATIONS FOR OFFICE AND SUPPORT SERVICES FOR THE WHITE HALL CLASSROOM BUILDING ENABLING PROJECT

MECHANCIAL COORDINATION

DEMOLITION KEY NOTES

REMOVE EXISTING SUSPENDED ACOUSTICAL CELLING SYSTEM THAT IS BISECTED BY NEW PARTITION.

NEATLY REMOVE EXISTING BYP. BD FOR INSTALLATION OF NEW PARALLEL WALL.

LOCATE NEW PARTITION TO ALIGN WITH EXISTING BULKHEAD ABOVE. BULKHEAD ABOVE. REFER TO DETAIL 5, THIS SHEET. EXISTING CASEWORK TO REMAIN, PROTECT.

NOTCH FRAMING AROUND EXISTING DUCTWORK AS NECESSARY, TIGHTLY ABUT PARTITION TO DUCTWORK, FILL ANY VOIDS AND SEAL PENETRATIONS.

SYMBOLS LEGEND

Name ROOM NUMBER REFER TO DUUR SCHEDULE

ROOM NUMBER
ROOM PRISH GROUPS (REFER TO SHEET AUU)

UK ROOM MI MIRFR SIGNAGE KEY NOTE

INTERIOR ELEVATIONS

**KEY PLAN** 

Δ

SOFFIT ABOVE. REFER TO DETAIL 6, THIS SHEET.

NEW WORK KEY NOTES

REFER TO DETAIL 1/A0.0 FOR HVAC SUPPORT.

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UNIVERSITY OF KENTUCKY ASSET PRESERVATION - RENOVATIONS FOR OFFICE AND SUPPORT SERVICES FOR THE WHITE HALL CLASSROOM BUILDING ENABLING PROJECT

PATTERSON OFFICE TOWER FLOOR PLAN -NEW WORK FOR USPS, MATHSKELLER & WILDCAT WARDROBE

JOB NO. 2364

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REVISIONS

No. Description Date
1 ADDENDUM 3/15/2

DATE

#### DEMOLITION KEY NOTES

- REMOVE EXISTING GATE AND ACCESSORIES.
- REMOVE REMAINING BASE OF REMOVED CABINET, REFER ALSO TO MPE. REMOVE EXISTING SPRAY FOAM INSULATION AT OPENING FLOOR, REFER ALSO TO MPE.
- REMOVE EXISTING DOOR, FRAME AND SIDELIGHT TO REMAIN
- REMOVE ALL MECELLANEOUS WALL MOUNTED SIGNAGE, BULLETIN BOARDS, COAT HOOKS; ETC, FROM EYISTING WALLS, UNLESS NOTED TO REMAIN REMOVE FATENERERS AND REMAINING ADHESIVES.

#### ♦ NEW WORK KEY NOTES

NOTE: KEY NOTES LISTED HERE APPLY TO THIS SHEET ONLY.
REFER ALSO TO GENERAL CONDITIONS, NOTES AND TYPICAL NEW
ON ADJ.

- LOCATION OF PARTITION IS APPROXIMATE, CENTER UPON BOTTOM / FLAT PORTION OF EXISTING COFFERED CELLING STRUCTURE.
- LOCATION OF PARTITION IS APPROXIMATE. LOCATE AS CLOSE TO THE EXISTING STOREFRONT AS POSSIBLE.
- EXISTING STOREFRONT, DOOR AND HARDWARE TO REMAIN. SECURE IN LOCKED POSITION PRIOR TO CONCEALING WITHIN NEW PARTITIONS.

- 2. EXISTING COUNTERTOP TO REMAIN. PROTECT.

THE AREA OF ETCHED GLASS (APPROVIMATELY 24" WIDE X IS "TALL WITHH THE ENSITING DOOR (NOT SIDELISHT) IS TO BE CONCEASED WITH 3 MM, TYPICH PYCE (PHYCHE) OF CHIPMENT TO TO WARREN PURS COURS FOR CHIPMENT THE OVER A MAINTEN, SECURE PYC TO GLASS WITH REMOVEMBLE ADDRESS. THE OPPOSITE SIDE OF THE CASES OF THE CONTROL TO THE CASE OF THE CONTROL TO THE CONTROL T

A, AREAS OF ETICLED GLASS ON THE DISTRICT ALL CLASS PAR OF DOORS (APPROVANCE) Y MIDE X 22 TALL AND SPECIALTY APPROVANCE) TALL LARGE DESCRIPTION OF A CONTROLLAR OF THE CONSCRIPTION OF THE OFFICE OF THE OFFICE OF THE OLD SPECIAL ON THE OFFICE OF THE OLD SPECIAL ON THE OFFICE O

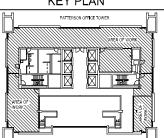
1. P.LAM, COUNTER, PROVIDE OPENING FOR MAIL CHUTE, COORDINATE.

#### PROVIDE 16" WIDE ± FRT 3.4" PLYWOOD BLOCKING FROM 5"8" WITHIN FRAMING OF WALL FOR MOUNTING OF CURTAIN ROD (OFCI).

- ROOM NUMBER - ROOM FINISH GROUPS (REFER TO SHEET AU.)

- LIK ROOM NUMBER SIGNAGE KEY NOTE

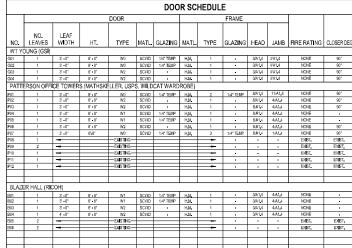
INTERIOR ELEVATIONS



**KEY PLAN** 

SHEET A1.3

2364 UNIVE 3/15/2



REFER TO PAINT SPECIFICATIONS FOR FINISH OF NEW DOORS.

PROMDE SHIP STEEL REINFORCEMENT PLATES WITHIN FRAME FOR HARDWARE ANCHORAGE WHERE REQUIRED.

PROMDE REINFORMO CHAINNES TALL HLA, FRAME SWEER FOTAL WIDTH IS GREATER THAN 4-0".

PROMDE FULLY TEMPERED GLASS WHERE SHOWN OR AS RECURRED BY 2018 KENTUCKY BULLONG CODE (NGC).

PROMDE FULLY TEMPERED GLASS WHERE SHOWN DO RAS RECURRED BY 2018 KENTUCKY BULLONG CODE (NGC).

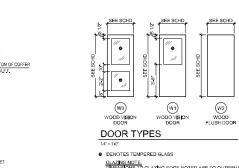
PROMDE WALL OR TALL ALL DOOR HEROWARE NACEOUNCE WITH APPLICABLE ARTICLES FOT THE "AMERICANS WITH DISABILITIES ACT".

PROMDE WALL OR FLOOR STOPS AS NOT BY HARDWARE SCHELD.

WHOTELES AT CHEARAGE AT BOTTOM OF ALL INTERFOR DOORS (MECHANICAL ROOM DOOR IN" CLEARANCE).

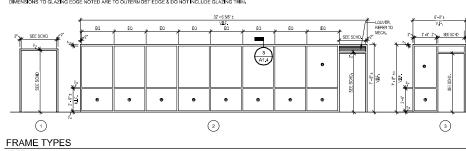
EXISTING CONC. STRUCTURE-J BEAD W/ SEALANT CONTINUOUS, TYP ---BOTTOM OF COFFER 5/8" GYP. BD. --10 GAUGE METAL STUDS AT 16" O.C. CORNER BEAD CONTINU MOTORIZED STAINLESS STE ROLLING COUNTER SHUTTE FACE MOUNTED TRAC COLING DOOR BEYON 3 5/8" METAL STUD BOX B RETURN P LAM, TO UNDERSIDE, TYP. — 5/8" GYP. BD. BOTH SIDES ON 3 5/8" METAL STUDS @ 16" O.C.

8 H.M. HEAD DETAIL AT EXIST. COFFER



FER CHUNG BOTTOMS, REFER TO KEYNOTE 1, SHEET A 1.3. OTHER NEW PARTITIONS BISECT VOIDS FORMED BY THE EXISTING COFFER CHUNG, REFER TO KEYNOTE 2, SHEET A 1.3.

 $\frac{\text{GLAZNG NOTE}}{\text{DIMENSIONS TO GLAZNG EDGE NOTED ARE TO OUTERMOST EDGE \& DO NOT INCLUDE GLAZING TRIM. }$ 



PROVIDE DOUBLE STUDS A EACH JAMB (TYP.)

H.M. FRAME, PROVIDE
 ADJUSTABLE COMPRESSION
 ANCHORS AT EACH JAMB,
 TYP, (PAINT)

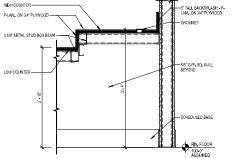




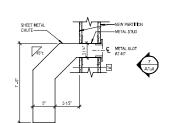
14 USPS COUNTER SECTION ADA

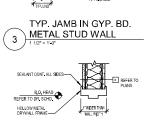
13 USPS LOBBY

**F** 

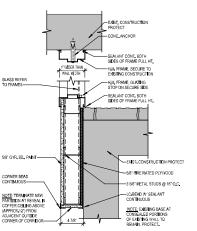


9 USPS- COUNTER SECTION





TYP. HEAD IN GYP. BD. METAL

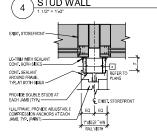






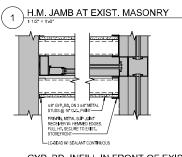






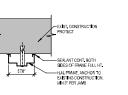
STUD WALL

" WALL WIDTH "
H.M. JAMB AT EXIST.  STOREFRONT  1 1/2"= 1/40"



GYP. BD. INFILL IN FRONT OF EXIST. STOREFRONT

11/2" = 11-0"



11 H.M. JAMB AT EXIST.

7 MAIL SLOT OPENING

15 EXISTING PHOTOS

DOOR SCHEDULE, FRAME | AND DETAILS DRAWN ¥ ,KJL CHECKED TSS, BKL REVISIONS
No. Description Da
ADDENDUM 3/15.

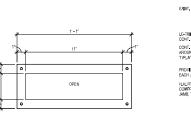
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SHEET

DATE

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UNIVERSITY OF KENTUCKY ASSET PRESERVATION - RENOVATIONS FOR OFFICE AND SUPPORT SERVICES FOR THE WHITE HALL CLASSROOM BUILDING ENABLING PROJECT

ELEVATIONS



To: Joe Sturdivant

**Project Name: UK Whitehall Printshop** 

Bid Date: February 14, 2024

We are pleased to offer the following equipment for your consideration.

#### **Bill of Material**

Item	Quantity	Manufacturer	Tagging	
I	1	AAON	Split System Air Conditioner	
II	1	Condair	Electrode Steam Humidifier	

Total Price: ...... \$ 69,100.00

Taxes Not Included

**See Subsequent Pages for Equipment Details & Notes** 

Pricing listed above is valid for 30 days from quote date.

We offer to furnish the above equipment in accordance with each manufacturer's standard terms and conditions of sale, if purchased directly. Terms of this Offer of Sale are net 30 days from invoice date, with a 1.5% service charge per month applicable thereafter. Pricing stated does not include any state or federal taxes, incidental fees or permits. Pricing includes freight F.O.B. Origin unless otherwise noted. Retainage of any kind is unacceptable. Attorneys' fees incurred by Air Equipment Company to recover payment shall be reimbursed by the purchaser. Purchaser grants to Air Equipment Co., Inc. a security interest in the goods listed on this offer of sale. Purchaser agrees that any dispute arising from this offer of sale shall be submitted to Jefferson Circuit Court in Louisville KY and purchaser agrees that it will be subject to personal jurisdiction in that court.

The one-year Labor Warranty quoted includes the labor cost associated with replacing parts that are deemed to be covered under the factory one-year parts warranty. THIS LABOR WARRANTY DOES NOT COVER: Diagnosing equipment alarms, faults, failures or performance-related conditions. It does not clover normal maintenance as outlined in the installation and servicing instructions or owner's manual including filter cleaning and/or replacement. Not covered are failure, damage or repairs due to faulty installation, misapplication, abuse, lack of proper maintenance, improper servicing, unauthorized alteration or improper operation. Labor costs are also not covered by the labor warranty if they are the result of work performed by a non-licensed HVAC technician, the results of improper installation by a contractor or if they are incurred in connection with a part not covered by the manufacturer's parts warranty. Not covered are damages due to voltage conditions, blown fuses, open circuit breakers, or the inadequacy, unavailability, or interruption of electrical service.

Louisville, KY 40206



#### Item I:

One (1) AAON Split System Air Conditioner

#### **Included:**

- (1) V3-ERB-8-0-162C-7K4
  - Vertical AHU E Cabinet
  - o 208/3/60
  - o Two Circuit Evaporator Coil
  - Electric Heat
  - o 4 Stage
  - Factory Mounted VCCX Controls with Integral Bacnet/MSTP
  - Modulating Hot Gas Reheat
  - Filter Box (No Mixing Box)
- (1) CFA-018-C-A-8-DJ00L
  - o 18-Ton Condensing Unit
  - Heat Pump operation
  - o 208/3/60
  - o Two Variable Capacity Compressors
  - Modulating Hot Gas Reheat
  - VCCX Controller (Main Controller in AHU)
- Startup
- Freight

#### The following warranties commence from Date of Shipment unless otherwise noted below:

• 12-Months Parts Only Warranty

#### Not Included:

- Anything not specifically listed as included is by others
- Installation
- Startup
- Labor Warranty
- Control or Power Wiring
- DDC Controls Integration



EXPERTS HELPING EXPERTS

#### Item II:

One (1) Condair EL Series Humidifier

#### **Included:**

- EL 020/208/3 ELN\_020
  - o BACnet MSTP Certified for EL
  - Outdoor Temp Sensor Duct Mount
  - o 0-10V Digital Wall Humidistat
  - o Humidistat, On/Off, High Limit, Digital, Duct Mount
  - Switch Air Proving (duct airflow safety interlock)
  - o Steam Distributor CSD 30
- Freight
- Startup

#### The following warranties commence from Date of Shipment unless otherwise noted below:

• 12-Months Parts Only Warranty

#### Not Included:

- Anything not specifically listed as included is by others
- Installation
- Startup
- Labor Warranty
- Control or Power Wiring
- DDC Controls Integration

1-800-489-0506



#### <u>Multiple purchase orders may be required to execute this order. Please contact Air Equipment Company</u> <u>prior to issuing purchase orders.</u>

Respectfully Submitted,

Jeremy Sheaffer
Jeremy@aecky.com
Sales Engineer
Air Equipment Company
997 Floyd Drive

Cell: 859 537 9675

CUSTOMER APP	ROVAL:
Total Price:	
Customer Name:	
Signature (*)	
described in this p	proposal, you agree to purchase the bill of material as proposal document, pursuant to the attached standard





PO Date: 03/06/2024 PO Number: **7500418098** 

# Purchase Order

Robert Haragan Inc dba Air Equipment Company 1701 Payne St Vendor: Louisville KY 40206-1940 Lexington KY 40526 Phone: (859) 218-3119 University of Kentucky
Attn: Angela Walton - CPMD
343 S Martin Luther King Blvd # 000 Blazer Hall Ship To: Bill To: Billing Inquiries: 859-257-6247 PO Box 77-00056 University of Kentucky Accounts Payable Email Invoices: APPOInvoices@uky.edu Lexington, KY 40506-0005 Payment Terms: Net 30 Days Paid By ACH Shipping Terms: FOB Destination PPY & Add Email: Corey.Leslie@uky.edu Phone: 859-323-5405 Fax: 859-257-1951 Purchasing Contact: Corey Leslie Information:

Please confirm receipt, pricing, and units of measure on purchase order, email confirmation to Corey.Leslie@uky.edu. Overshipments and Duplicates will be the responsibility of the vendor unless specifically stated. Any changes to the Purchase Order must be authorized by UK Procurement Services. Do not invoice prior to shipment/provision of goods or

	001	Line
Paç		Vendor Catalog
Page Total:	69,100 LO	Ordered
\$ 69,100.00	PLEASE SEND INVOICES TO: University of Kentucky Capital Project Management Attn: Les Winkler 222 Peterson Service Bldg. Lexington, KY 40506-0005 MRO Contract UK-2368-240  Air Conditioner & Steam Humidifier Provide one (1) AAON Split System Air Conditioner and one (1) Condair Electrode Steam Humidifier for Blazer Hall per the scope and details of the AEC Proposal named "UK Whitehall Printshop" dated 2/14/24.  Coordinate all work and deliveries with Angela Walton, UK project manager, ph. (859) 218-3119, angela walton@uky.edu. This contract will be assigned to the General Contractor once the contract is awarded at a later date.  Delivery date TBD  CPMD Project #2590.27 Asset Preservation - Renovations for Office and Support Services	Description
G <sub>r</sub>	·	Delivery Date
Grand Total:		UK Item Number
<u>⊪</u> •	1.00	Order Price
\$ 69,100.00	69,100.00	Extended Price

**Barry Swanson**Chief Procurement Officer Authorized By:

The University's General Terms and Conditions, viewable at https://purchasing.uky.edu/vendor-resources-and-public-notices, will govern this purchase.

For construction services, the University's General Conditions for Construction shall apply, viewable at https://purchasing.uky.edu/vendor-resources-and-public-notices

Tax exempt from Federal Excise and State Tax: A00276 FEIN: 61-6001218

Purchase Order Number must appear on all invoices and correspondence.

Page 1 of 1



Opportunity Name, Quote Name UK Whitehall Printshop, New Quote

Preparation Date 2024-02-14

Locally Represented By
Air Equipment Company
1701 Payne Street
Louisville, Kentucky, United States

Salesperson

Jeremy Sheaffer



#### **Zone List**

Zone Tag	Q <sub>MA</sub> CFM	Q <sub>OA</sub> %	DB <sub>OA</sub> °F	RH <sub>OA</sub> %	DB <sub>BH</sub> °F	RH <sub>BH</sub> %	DB <sub>AH</sub> °F	RH <sub>AH</sub> %	DB <sub>SD</sub> °F	RH <sub>SD</sub> %	<b>W</b> <sub>Duct</sub> in.	H <sub>Duct</sub>	H <sub>TOT</sub> lbs/hr	Absorption ft	Location	Tech
Zone(1)	7877	4	5	30	70	55	70	57	74	50	30	30	10	0.44	In Duct	Electrode Steam

 $Q_{\text{MA}} = \text{Mixed Air Volume} \qquad \qquad Q_{\text{OA}} = \text{Outside Air}$   $DB_{\text{OA}} = \text{Outside Air Design Dry Bulb Temperature} \qquad \qquad RH_{\text{OA}} = \text{Outside Air Design Relative Humidity}$   $DB_{\text{BH}} = \text{Before Humidification Dry Bulb Temperature} \qquad RH_{\text{BH}} = \text{Before Humidification Relative Humidity}$   $DB_{\text{AH}} = \text{After Humidification Dry Bulb Temperature} \qquad RH_{\text{AH}} = \text{After Humidification Relative Humidity}$   $DB_{\text{SD}} = \text{Space Design Dry Bulb Temperature} \qquad RH_{\text{SD}} = \text{Space Design Relative Humidity}$   $W_{\text{Duct}} = \text{Duct Width} \qquad H_{\text{Duct}} = \text{Duct Height}$   $H_{\text{TOT}} = \text{Total Humidification} \qquad \text{Absorption Estance}$ 



#### **Product List**

Zone Tag	Part Number	Item	Qty
Zone(1)	ELN_020	EL 020/208/3	1
Zone(1)	ELN_BAC-BTL-MSTP	BACnet MSTP Certified for EL	1
Zone(1)	2520263	Outdoor Temp Sensor Duct Mount	1
Zone(1)	2597928	0-10V Digital Wall Humidistat	1
Zone(1)	2597935	Humidistat, On/Off, High Limit, Digital, Duct Mount	1
Zone(1)	2598427	Switch Air Proving (duct airflow safety interlock)	1
Zone(1)	2553745	Steam Distributor CSD 30	1



#### Data Sheet - Zone(1)



EL Series

Opportunity Name: UK Whitehall Printshop

Quote Name: New Quote

Salesperson: Jeremy Sheaffer

Date: 2024-02-14



#### **Calculation Basis**

Humidification Load (total)	10.5 lbs/h
Duct Size	30 x 30 in.
<b>Duct Orientation</b>	Horizontal
Total Air Volume	7877 CFM
Outside Air	4 %
Air Velocity	1260.3 ft./min
Altitude	988 ft
Air Pressure	14.2 psig
Humidity Increase	62.6 gr/lb

Outside Air	Temperature Relative Humidity Absolute Humidity	5.0°F 30 % 2.2 gr/lb
Before Humidification	Temperature Relative Humidity Absolute Humidity	70.0°F 55 % 62.6 gr/lb
After Humidification	Temperature Relative Humidity Absolute Humidity	70.0°F 57 % 64.8 gr/lb
Space Design	Temperature Relative Humidity Absolute Humidity	74.0°F 50 % 64.8 gr/lb

#### **Product Data**

EL 020/208/3			
Rated Power:	7.50 kW	Maximum Water Pressure:	80 psig
Power Circuit:	208/3/60 V/Ph/Hz	Width:	16.5 in.
Rated Current (MCA):	20.80 A	Height:	26.4 in.
Maximum Current (MOCP):	25.00 A	Depth:	14.4 in.
Cylinders:	1	Net Weight:	45 lbs
Cylinder Type:	303	Full Weight:	55 lbs
Steam Outlet OD:	0.88 in.	Front Clearance:	36 in.
Quantity Steam Outlets:	1	Left Clearance:	0 in.
Fill Rate:	0.20 GPM	Right Clearance:	0 in.
Drain Rate:	1.60 GPM	Ceiling Clearance:	12 in.
Nominal Capacity:	20 lbs/h	Floor Clearance:	24 in.
Rated Capacity:	22 lbs/h	Supply Water:	0.5 in.
Minimum Output Range:	4 lbs/h	Drain Water OD:	1.18 in.
Minimum Water Pressure:	30 psig	Condensate Return:	0.38 in.
Steam Distributor CSD 30			
Absorption Distance:	0.44 ft	Length:	26 in.
Nominal Capacity:	115 lbs/h	Product Length:	30 in.



#### A2 - EL (ELN\_020) Specification PART 1 - GENERAL

#### 1.1 Work Included:

- a. Nortec EL Series electrode steam humidifier[s] as indicated on drawing[s] and as indicated on schedule[s].
- b. Complete and operable humidification system [which meets applicable building codes]
- c. Equipment start-up and project inspection by qualified factory trained representative.

#### 1.2 Quality Assurance:

- a. Certifications, C-UL US Listed.
- b. ISO 9001.
- c. ANSI/NFPA 70 National Electrical Code.
- d. AHRI 640. Standard for Commercial and Industrial Humidifiers.
- e. ASHRAE Standard 135 BACnet

#### 1.3 Related Sections:

- a. 23 Mechanical General
- b. 23[] Piping Installation
- c. 23[] Control System

#### 1.4 Submittals:

- a. Submit product data under provisions of Section 23. Include product description, model, dimensions, component sizes, rough-in requirements, service sizes, and finishes. Include rated capacities, operating weights, furnished specialties, and accessories.
- b. Submit manufacturer's installation instructions.
- c. Submit operation and maintenance data.
- d. Submit coordination drawings. Detail fabrication and installation of humidifiers. Include piping details, plans, elevations, sections, details of components, and dispersion tubes. Detail humidifiers and adjacent equipment. Show support locations, type of support, weight on each support, and required clearances.
- e. Submit wiring diagrams including power, signal, and control wiring. Differentiate between manufacturer-installed and field-installed wiring.
- f. Submit water pressure requirements.

#### 1.5 Schedules:

- a. Refer to information contained in schedule[s] attached to this specification.
- b. Humidifiers to be of type, capacity, and arrangement as listed in schedule[s].
- c. Include accessories listed in schedule[s] and those accessories required for type of unit.

#### **ELECTRODE STEAM HUMIDIFICATION SYSTEM - MODEL NORTEC EL**

#### **PART 2 - PRODUCTS**

2.1 Provide Nortec EL electrode humidifier generating mineral-free, sterile steam from a potable water supply Packaged unit, wall mounted, atmospheric steam generation using an electrode steam cylinder[s]. Resistive element technology and boiler steam (pressure steam) technology not acceptable.

#### 2.2 Unit[s] to be complete with:

a. Touchscreen controller with standard building automation:



- i. Intuitive touchscreen control with color graphic user interface.
- ii. Standard building automation communication protocols BACnet IP, BACnet MSTP (Slave only) and Modbus. Additional hardware required for building automation communication not acceptable.
- iii. Embedded web interface for easy configuration and remote monitoring from any computer with a web browser over a local area network (LAN) connection.
- iv. USB interface for new software/feature upload and download of operational information.
- v. Single or dual channel analog signal acceptance, supporting both demand and transducer control. Ability to control setpoint from humidifier control when using transducer controls.
- b. Packaged system with Condair electrode cylinder technology:
  - i. Condair cylinder optimized for humidifier capacity and supply voltage. Cylinder must have welded seam to ensure watertight and have high water sensor to prevent overfilling.
  - ii. Durable powder coated steel cabinet with zero side clearance requirement for minimal footprint.
  - iii. Insulating air gap between plumbing and electrical compartment for increased electronic reliability.
  - iv. Standard internal drain water tempering to ensure maximum 140° F [60° C] drain water. External drain water cooler not acceptable.
  - v. Integral fill cup with minimum 1-inch [25 mm] air gap to prevent back siphoning.
  - vi. Full cylinder indication and pre-notification of automatic shutdown at end of cylinder life.
  - vii. Automatic pulse feature to clean any obstruction from the drain solenoid valve if required.
  - viii.Automatic off-season shut-down [after 3 days of "no call"] will completely drain the cylinder[s] and automatically restart on call for humidity. Adjustable on/off and time sequence. Provides extended cylinder life, while ensuring stagnant water does not remain in the system.
- c. Condair Auto-Adaptive Control water management:
  - i. Advanced water management utilizing the patented Proportional plus Integral Auto-Adaptive Control system for optimal energy efficiency, water usage and cylinder life.
  - ii. 98% thermal efficiency from startup until end of cylinder life.
  - iii. Drains automatically optimized to water conditions to maximize cylinder and reduce water usage.
  - iv. Modulating output between 20% and 100% of rated capacity.

#### 2.3 Optional Accessories

a. Refer to 'Option schedule'

#### **PART 3 - EXCECUTION**

- 3.1 Installation:
  - a. Install humidifiers per manufacturers' instructions.
  - b. Install with required clearance for service and maintenance.

#### 3.2 Accessories:

a. Install accessories in accordance with manufacturer's recommendations.

#### 3.3 Commissioning:

a. Start-up of humidifier to be by factory trained technician.

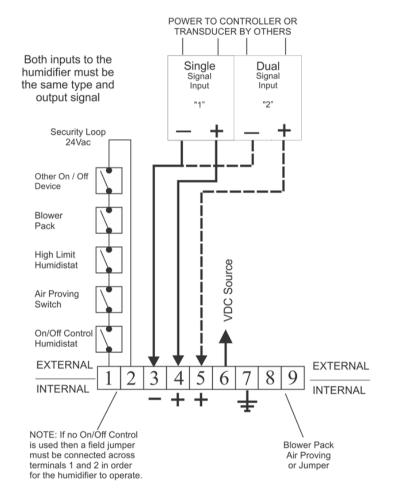


#### A3 - EL (ELN\_020) Installation

#### EXTERNAL CONTROLS WIRING CONNECTIONS LOW VOLTAGE TERMINAL STRIP

#### For all controller and transducer signals by others

WARNING: Failure to wire the controller in accordance with the wiring diagram supplied with the unit could permanently damage the electronics. Such errors will void the unit warranty.



#### Transducers:

To be complete with sensing element, power source and 2 wire varying output signal. RH set point adjustment is made at unit keypad. RH set point and % RH sensed are viewed on display

Output signal across 3 - 4 and 3 - 5 increase on RH rise

#### Controllers (Humidistat):

To be complete with RH set point adjustment, sensor circuit, sensing element, power source and 2 wire varying output signal. RH demand are viewed on display

Output signal across 3 - 4 and 3 - 5 decrease on RH rise



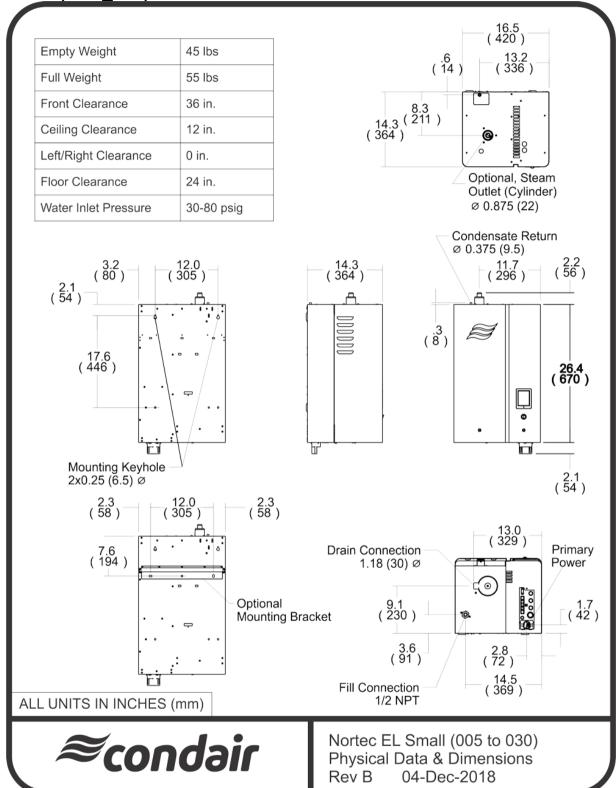
EXTERNAL CONTROLS WIRING CONNECTIONS LOW VOLTAGE TERMINAL STRIPS

Diagram No. 1509816 Rev. F

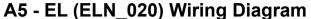
Dec. 4/2018

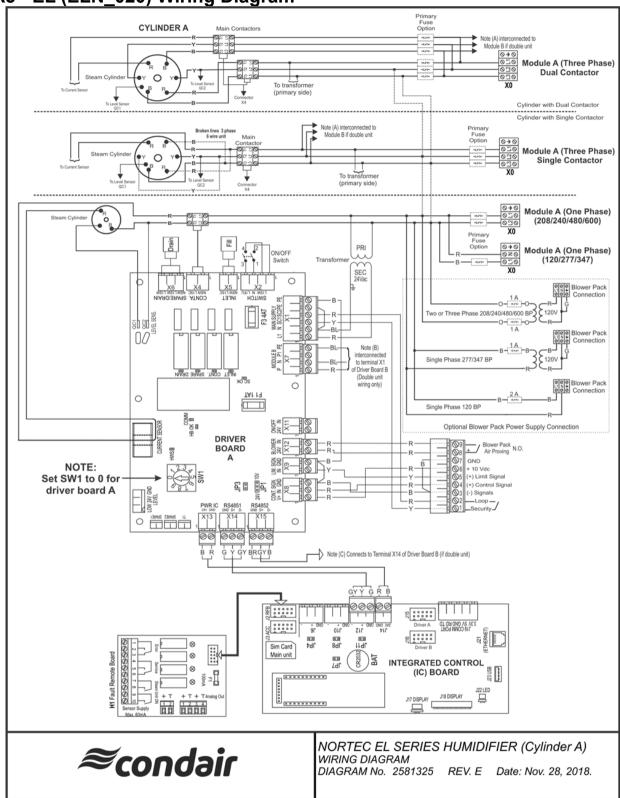


#### A4 - EL (ELN\_020) Schematic











A6 - EL (ELN\_BAC-BTL-MSTP) Description

Nortec EL BTL Certified BACnet MS/TP Option, provides a factory installed, BTL Certified, add-on card to interface with BACnet MS/TP networks.

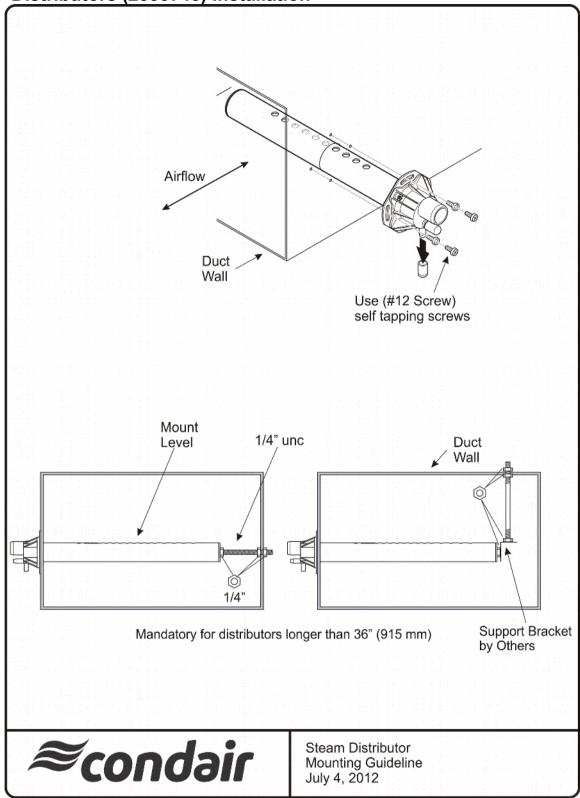


#### A7 - Distributors (2553745) Description

<u>CSD Stainless Steel Steam Distributor</u>, suitable for capacities up to 115 lbs/hr. Machined from high quality stainless steel. Steam is dispersed through evenly spaced outlet orifices along the top of the steam distributor's "Active Zone". The portions of the distributor closest to the duct walls are not considered "Active Zones" due to the reduced air flow. The length selection of a steam distributor is defined by the duct width.

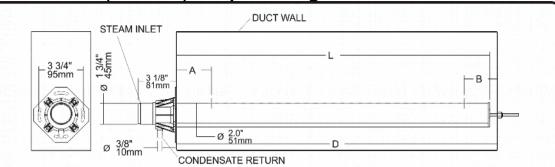


#### A8 - Distributors (2553745) Installation





#### A9 - Distributors (2553745) Shop Drawing



Distributor	Max Capacity	Dimensions					Minimum Duct Dimensions			
Model	Model (lbs/hr)	Α		В		L		D		
		in	mm	in	mm	in	mm	in	mm	
CSD 24	115	1.75	44	1.55	44	20	508	24	609	
CSD 30	115	2	57	2	51	26	660	30	762	
CSD 36	115	2	51	2	51	32	813	36	914	
CSD 42	115			2	51	38	965	42	1066	
CSD 48	115	2.25	64			44	1118	48	1219	
CSD 54	115					50	1270	54	1371	
CSD 60	115					56	1422	60	1524	
CSD 66	115	2.5	76	2.5	.5 64	62	1575	66	1676	
CSD 72	115					68	1727	72	1828	
CSD 78	115	3	76	2.5	64	74	1880	78	1981	
CSD 84	115	3	/6	2.5	04	80	2032	84	2133	
CSD 90	115			3	89	86	2184	90	2286	
CSD 96	115	4	102			92	2337	96	2438	
CSD 102	115		4	4   102	3	69	98	2489	102	2590
CSD 108	115					104	2641	108	2741	
CSD 114	115	5		4.5	114	110	2793	114	2894	
CSD 120	115		127			116	2945	120	3046	
CSD 126	115					122	3097	126	3198	
CSD 132	115					128	3249	132	3350	
CSD 138	115	6	152	5.5	140	134	3401	138	3502	
CSD 144	115		3 Del 144			140	3553	144	3654	

#### Note:

- CSD distributor suitable for 115 lbs/hr (52.2 kg/hr).
  Steam distributor tube made of stainless steel.
- Steam inlet and end cap made of fire rated plastic.
- Distributor is adjustable for horizontal or downflow applications.
- Condensate return hose and steam hose provided for steam line connection.



Steam Distributor, CSD, 115 lbs/hr (52.2 kg/hr)



#### A10 - Controls (2598427) Description Condair APS-NA

The mechanical differential pressure switch ?,, differential pressure monitor APS-NA with 4-hole plastic base ring is used for monitoring above-atmospheric, differential and below-atmospheric pressures of clean air and other gaseous, non-aggressive non-combustible media in air ducts, air intake or exhaust devices, as a pressure difference detector or pressure monitor for flow detection at electric heating registers, for monitoring V-belts and filters, as air pressure deficiency protection, for monitoring fans and air dampers, or as a limit value controller. The switchpoint is adjusted using the internal precision scale.

Pressure scale in inches of water ["WC]

These instruments are factory-calibrated. The differential pressure switch APS-NA is supplied including connection set (2 m connection hose, two pressure connection nipples, screws) and mounting ring.



#### A11 - Controls (2598427) Shop Drawing

(B) APS Rev. 2020 - V16

The mechanical differential pressure switch/differential pressure monitor APS with 4-hole plastic base ring is used for monitoring above-atmospheric, differential and below-atmospheric pressures of clean air and other gaseous, non-aggressive non-combustible media in air ducts, air intake or exhaust devices, as a pressure difference detector or pressure monitor for flow detection at electric heating registers, for monitoring V-belts and filters, as air pressure deficiency protection, for monitoring fans and air dampers, or as a limit value controller. The switchpoint is adjusted using the internal precision scale.

These instruments are factory-calibrated. The differential pressure switch APS is supplied including connection set (2m connection hase, two pressure connection nipples, screws) and mounting ring

TECHNICAL DATA	
Switching capacity: (Contact load)	5 (0.8) A, 250 V AC 4 (0.7) A, 30 V DC
Contact:	single-pole potential-free changeover contact, multi-layer contact, gold-plated (DDC compatible)
Pressure range:	see table. high adjustment accuracy due to individual laser-etched scale for each switch
Housing:	base: material PC (10% GF), colour light grey (similar to RAL 7035), snap-on lid: material PC, transparent, cable gland PG 11 with strain reliaf
Temperature of medium:	-30+85°C
Membrane:	sillcone, LSR (Liquid Silicon Rubber, tempered at +200°C, non-outgassing, LABS-free, no emission of varnish-adhesion inhibiting substances), long-term stability of switching points due to trapezoidal bead membranes
Humidity:	< 90% r.H., non-precipitating air
Electrical connection:	0.14 - 1.5 mm², via terminal screws with torsion protection
Pressure connection:	with connection nozzles for pressure hose Ø 6 mm
Mounting:	by 4-hole base ring, plastic (included in the scope of delivery), recommended mounting position: vertical (pressure connections downward) – factory setting, horizontal (cap up/down)
Protection class:	II (according to EN 60 730)
Protection type:	IP 54 (according to EN 60529) with top cover
Standards:	CE conformity, low-voltage directive 2014/35/EU
Tests:	DVGW (according to DIN 1854), VDE 0630, EN 61058, directive on gas devices 2009/142/EU, CE 0085 A P 0918
FUNCTION	Contact 1-2 breaks when pressure/differential pressure rises to the preset value.  Contact 1-3 closes when pressure/differential pressure drops and can be used as signal contact.

APS Differential pressure switches with mounting ring, Standard					
Type WG03B	Pressure rar (adjustable		Operating Difference approx.	Max. Pressure	Item No.
APS	Standard				with mounting ring
APS	20300 Pa	(0.23.0 mbar)	0.1 mbar ± 15%	5000 Pa (50 mbar)	2599 902
APS-NA	0.081.206 inch WC	(0.23.0 mbar)	0.1 mbar ± 15%	5000 Pa (50 mbar)	2599 903



#### A12 - Controls (2598427) Wiring Diagram

Smartphone App - Condair Sensor Connect









Scan the Sensor QR

Scan the Device QR

**Get the Schematic** 

Get the Settings









#### The connection diagram quickly at hand

Condair has provided the spec labels of all sensors and humidifiers with a practical QR code so that you can quickly and conveniently view the respective connection diagram and unit configuration even without the technical manual.

Install the Condair Sensor Connect app once, open the app, scan the QR-code on the sensor as well as on the humidifier and get the relevant wiring diagram and configurations.

No matter whether you are online or offline.

#### Das Anschlussschema schnell im Griff

Die Typenschilder aller Fühler und die Luftbefeuchter hat Condair mit einem praktischen QR-Codeversehen, sodass Sie auch ohne das Technische Handbuch, schnell und bequem das jeweilige Anschlussschema und Gerätekonfiguration ansehen können.

Einmal die Condair Sensor Connect App installieren, App öffnen, QR Code am Fühler und Luftbefeuchter scannen und das für Sie relevante Anschlussschema und Konfigurationen erhalten.

Egal ob online oder offline.



#### A13 - Controls (2597935) Description Condair CHD

The duct humidistat Condair CHD serves as humidity monitoring device (maximum humidistat) in ducts. The Condair CHD is installed directly on the duct.

#### Mounting in a return air duct (recommended):

Mount the Condair CHD in a return air duct close to the air outlet of the room but downstream from a return fan if one is present.

#### Mounting in a supply air duct:

Mount the Condair CHD in a supply air duct at least three meters downstream from the nearest fan and coil and with a minimum distance of 5x the humidification distance to the steam distributor (see manual of the humidifier).



#### A14 - Controls (2597935) Installation

#### **≈**condair CHD-NA 2548732 A mm (inch) В Ø14 x 77 47 (1.9) 91 (3.6) (Ø 0.55 x 3) C 75 (2.9) D 54 (2.1) Ø16 (0.6) 1: 0V / GND 2: 24 V AC/DC ±10% 3: DO1 4: DO1 5: DO2 6: DO2 7: RT 8: RT i 1 6 (0.02) App Store For Wiring Schematic: Get the Condair Sensor Connect App

C Condair Group AG, Switzerland

70-000260/20201202



#### A15 - Controls (2597935) Shop Drawing

Power Supply / Stromversorgung				
Operating Voltage / Betriebsspannung	24 V AC 50/60 Hz ± 10%, 24VDC ± 10%			
Power Consumption / Leistungsaufnahme	Max. 2 VA			
Terminal Connectors / Klemmenanschlüsse	0.342.5 mm <sup>2</sup> (AWG 2412)			

Sensor Probe (Humidity) / Sensorelement (Feuchtesensor)				
Measuring element / Messelement	Capacitive Element / Kapazitives Messelement			
	0100 % rH / % rh			
Measuring accuracy / Messgenauigkeit	%rF %rh %hr ±3 ±2 ±1 0 0 10 20 30 40 50 60 70 80 90 100 %hr %hr			
Hysteresis / Hysterese	± 1 %rF			

Signal Output / Signalausgang	
Digital Output / Digitaler Signalausgang	DO1
Switching type / Schalttyp	Relay, normally open / Relais, normal offen
Switching capacity / Schaltleistung	2(1.2) A
Switching voltage / Schaltspannung	0250 VAC / 024VDC

Environment / Umgebung		
Operation / Betrieb	IEC 721-3-3	
Climate Conditions / Klimatische Bedingungen	Class 3 K5	
Temperature / Temperatur	050 °C (32122 °F)	
Humidity / Feuchtigkeit	<95 %rF non-condensing / nicht kondensierend	
Transport and storage / Transport & Lagerung	IEC 721-3-2 & IEC 721-3-1	
Climate conditions / Klimatische Bedingungen	Class 3 K3 und Class 1 K3	
Temperature / Temperatur	-2570 °C (-13158 °F)	
Humidity / Feuchtigkeit	<95 %rF non-condensing / nicht kondensierend	
Mechanical Conditions / Mech. Bedingungen	Class 2M2	

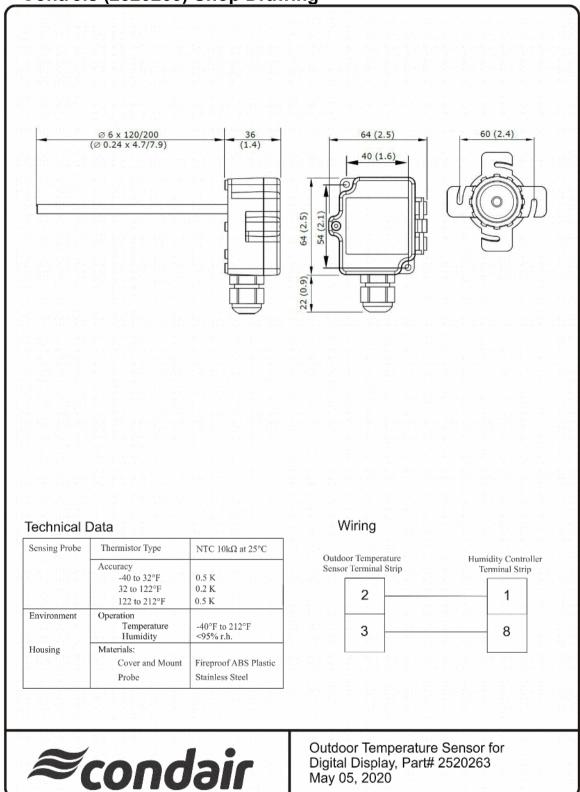


#### A16 - Controls (2520263) Description

<u>Duct Temperature Sensor for Outdoor Setback</u>, for use with all product lines. This sensor can be mounted directly onto the fresh air intake of the ventilation duct. The humidistat controller reads the outdoor temperature and resets the humidity control setpoint to prevent condensation in windows and building structures.



### A17 - Controls (2520263) Shop Drawing





## A18 - Controls (2597928) Description Condair RCC

Proportional-Integral (PI) humidity controller Condair RCC with integrated humidity sensor provides accurate humidity control in rooms. The output signal of the controller (0...10 VDC, 0...20 mA or 2...10 VDC, 4...20 mA) may be customized by jumpers.

Install the Condair RCC humidity controller in a protected and easily accessible place at least 1.5 m above the floor to the wall (mounting on flush-mounting or wall-mounting box).

Observe the following placement notes:

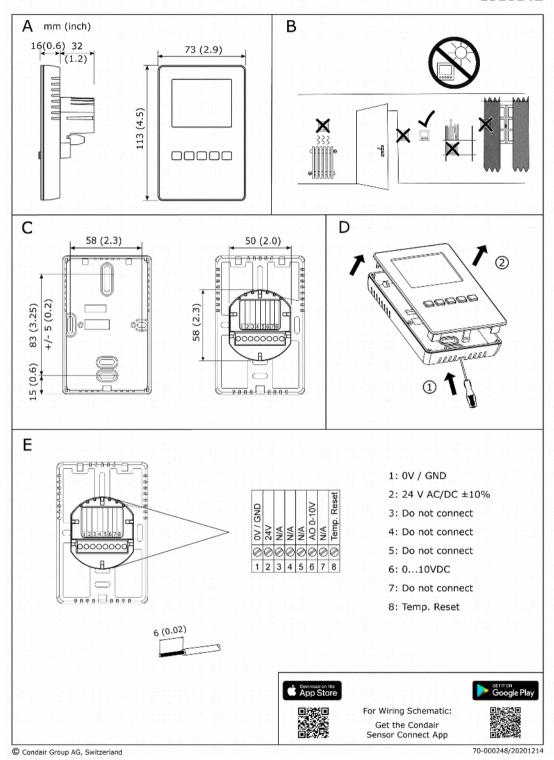
- Do not place the Condair RCC in niches, behind curtains, etc..
- Do not place the Condair RCC near heat sources, within the area with direct air draft or direct sunlight.



### A19 - Controls (2597928) Installation

# *≋condair*

RCC-NA 1510142





### A20 - Controls (2597928) Shop Drawing

Power Supply / Stromversorgung	
Operating voltage / Betriebsspannung	24 V AC 50/60 Hz ± 10%, 24VDC ± 10%
Power consumption / Leistungsaufnahme	Max. 3 VA
Terminal connectors / Klemmenanschlüsse	0.342.5 mm²(AWG 2412)
Signal Input / Signaleingang	
Universal Input / Universaleingang	UI1, UI2
Signal Output / Signalausgänge	
Analog output/ Analogausgang	AO1
Analog signals / Ausgangssignale	RCC: 010 VDC / 020mA
	RCC-NA: 010 VDC
Resolution / Auflösung	39 mV or 0.078 mA
Maximum Load / Maximale Last	10 mA (@ 010 VDC)
	20 mA (@ 020mA)
Environment / Umgebung	
Operation / Betrieb	IEC 721-3-3
Climate Conditions / Klimatische Bedingungen	Class 3 K5
Temperature / Temperatur	050 °C (32122 °F)
Humidity / Feuchtigkeit	<95 %rF non-condensing / nicht kondensierend
Transport and storage / Transport & Lagerung	IEC 721-3-2 & IEC 721-3-1
Climate conditions / Klimatische Bedingungen	Class 3 K3 und Class 1 K3
Temperature / Temperatur	-2570 °C (-13158 °F)
Humidity / Feuchtigkeit	<95 %rF non-condensing / nicht kondensierend
Mechanical Conditions / Mech. Bedingungen	Class 2M2



### Split System Rating

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094

AAONEcat32 Ver. 4,344 (SN: 6974352-DLOGOUNO)

V3-ERB-8-0-162C-7K4:F33E-FAH-000-A00-00A0010-00-DA000B000
Air Handling Unit Tag: Split AHU #1

CFA-018-C-A-8-DJ00L:0-00-E0-00-000-D-HE00-0000E00-0A0000B

Condensing Unit Tag: Split CU #1

#### Job Information

Job Name: UK Whitehall Printshop

Job Number: 32177
Site Altitude: 0 ft
Refrigerant R-410A

#### Static Pressure

External: 1.00 in. wg.
Evaporator: 0.56 in. wg.
Filters Clean: 0.15 in. wg.
Dirt Allowance 0.15 in. wg.

#### **Cooling Section**

	Gross	Net
Total Capacity:	205.89	193.22 MBH
Sensible Capacity:	190.06	177.40 MBH
Latent Canacity	15 82 MRH	

 Mixed Air Temp:
 76.61 °F DB
 62.80 °F WB

 Entering Air Temp:
 76.61 °F DB
 62.80 °F WB

 Lv Air Temp (Coil):
 53.98 °F DB
 53.49 °F WB

 Lv Air Temp (Unit)
 55.42 °F DB
 54.08 °F WB

Evap Suction Temp: 47.95 °F Supply Air Fan: 2 x RN185 @ 2.27 BHP Ea.

SA Fan RPM / Width: 1888 / 4.140"

Evaporator Coil: 17.3 ft<sup>2</sup> / 6 Rows / 12 FPI

Evaporator Face Velocity: 456.6 fpm

#### **Unit Information**

Approx. Weights AHU/CU: 1025 / 1332 lbs. (±5%) Supply CFM/ESP: 7877 / 1 in. wg.

Outside CFM: 270

Ambient Temperature: 90.9 °F DB / 77 °F WB Return Temperature: 76.1 °F DB / 62.2 °F WB

 Economizer:
 0.00 in. wg.

 Heating:
 0.03 in. wg.

 Cabinet:
 0.00 in. wg.

 Re-Heat Coil:
 0.10 in. wg.

 Total:
 1.99 in. wg.

#### **Heating Section**

Primary Heat Type: Heat Pump - Not operational @ 10.0 °F DB ambient

Electric Heat

179.2 MBH

10.0 DB / 9.0°F WB

55.0 °F DB / 50.0 °F WB

55.0 °F DB / 50.0 °F WB

76.1 °F DB / 58.6 °F WB

7877

# Auxiliary Heating Type\*: Heating CFM: Total Capacity:

OA Temp: RA Temp: Entering Air Temp: Leaving Air Temp: Input:

Input: 52.5 kW Heater Qty (Hi/Low): 10 Electric Heat FLA: 145.7

#### Re-Heat Coil:

Capacity: 127 MBH LA DB / WB: 68.89 °F / 59.32 °F RH: 57%

#### **Rating Information**

Application EER @ Op. Conditions:9.8Condensing Unit EER @ Op. Conditions:13.0

Application COP @ Op. Conditions: 0.00

#### AH Electrical Data

Rating: 208/3/60 Minimum Circuit Amp: 163
Unit FLA: 160 Maximum Overcurrent: 175

#### CU Electrical Data

Rating: 208/3/60 Minimum Circuit Amp: 69
Unit FLA: 62 Maximum Overcurrent: 90

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	1		208	3			27.6
Compressor 2:	1		208	3			27.6
Condenser Fans:	2	0.75	208	3	1075	3.4	
Supply Fan:	2	3.00	208	3	1760	7.0	

<sup>\*</sup>Motor heat is not included.

#### **Condensing Unit Connection Sizes**

System	Suction Line	Liquid Line	Hot Gas Reheat
1	0.88"	0.63"	0.88"
2	0.88"	0.63"	



## **Heat Pump Unit Rating**

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.344 (SN: 6974352-DLQGOUNO)

V3-ERB-8-0-162C-7K4:F33E-FAH-000-A00-00A0010-00-DA000B000
Air Handling Unit Tag: Split AHU #1

CFA-018-C-A-8-DJ00L:0-00-E0-00-000-D-HE00-0000E00-0A0000B
Condensing Unit Tag: Split CU #1

#### **Job Information**

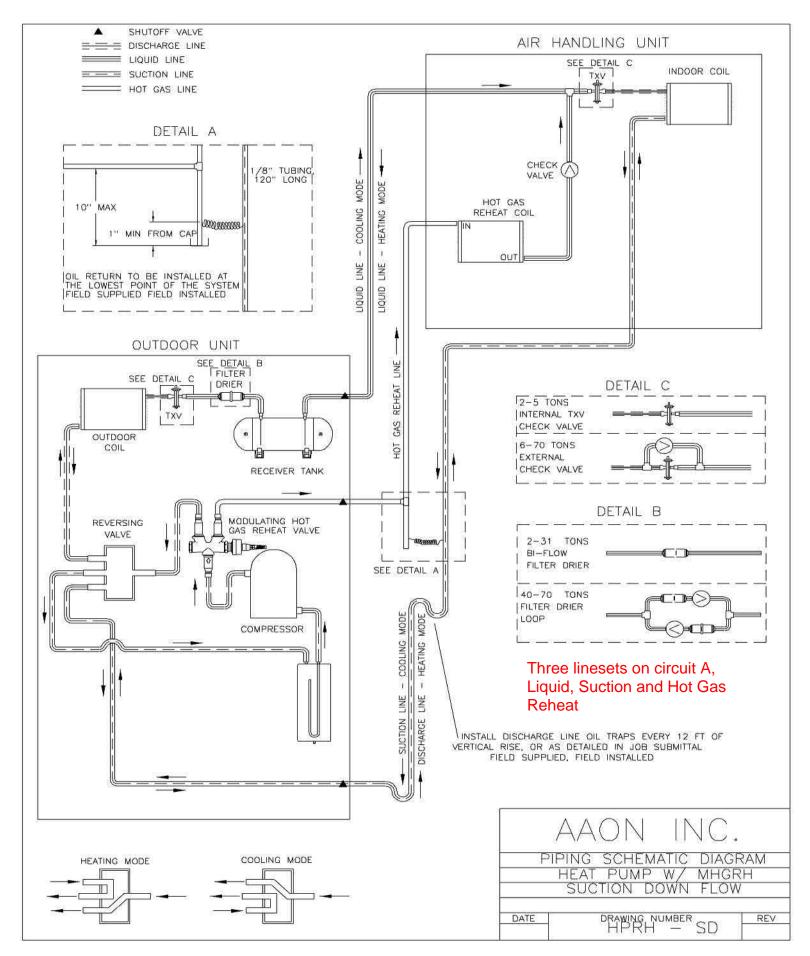
Job Name:UK Whitehall PrintshopJob Number:32177OA CFM:270SA CFM:7877

#### Performance Bata Table

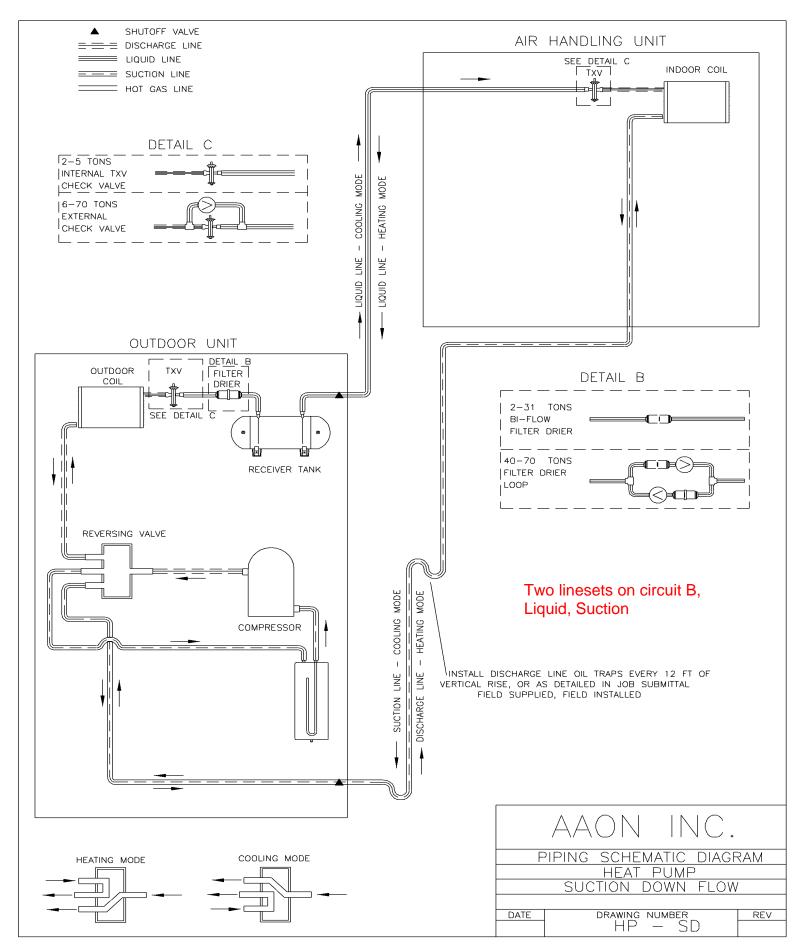
_	Outsi	de Air	Mixe	d Air	Leavi	ng Air	Heat Pump Capacity	Heat Pump Integrated Capacity	Heating COP
_ [	DB ⁰F	WB ºF	DB ⁰F	WB ⁰F	DB ºF	WB ⁰F	MBH	MBH	
	62.0	56.2	55.2	50.2	82.0	60.8	233.9	233.9	5.24
• [	57.0	51.6	55.1	50.1	79.4	59.8	212.9	212.9	4.93
. [	52.0	47.1	54.9	49.9	77.1	58.9	194.7	194.7	4.65
	47.0	42.6	54.7	49.8	75.1	58.1	178.6	178.6	4.39
' [	42.0	38.0	54.6	49.6	73.3	57.4	164.0	164.0	4.15
	<b>₩</b> 37.0¥	<b>L83.5</b>	<b>54X</b>	<del>\ 495\</del>	ノベ	<del>ر</del> پ			
	32.0	28.8	54.2	49.4	*	*	*	*	* 1
	27.0	24.3	54.0	49.3	*	*	*	*	* //
	22.0	19.7	53.9	49.2	*	*	*	*	*
	17.0	15.0	53.7	49.1	*	*	*	*	*/
	12.0	10.4	53.5	49.0	*	*	*	*	
	7.0	5.7	53.4	48.9	*	*	*	*	*
Į	2.0	0.1	53.2	48.8	*	*	*	*	*

<sup>\*</sup>Invalid operating point - Compressor operating outside of operating envelope.

Recommended heat pump operation to ~35 degrees. Below that heat strips to be used.



Circuit #: 1



Circuit #: 2





2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.344 (SN: 6974352-DLQGOUN0)

#### JOB INFORMATION:

Job Name: UK Whitehall Printshop

Job Tag: Split AHU #1 Rep Firm:

**Date**: 02/14/2024

#### WHEEL SPECIFICATION:

 Max RPM:
 3,000

 Diameter x Oty:
 18.5 in. x 2

 CFM:
 3939

 Tip Speed:
 9,144 FPM

 Inertia:
 3 WR²

#### **OPERATING CONDITIONS:**

 Air Flow:
 7,877 CFM

 Static Pressure:
 1.99 in. Wg.

 Plenum DP:
 0.00 in. Wg.

 Inlet Grill DP:
 0.00 in. Wg.

 TSP:
 1.99 in. Wg.

 Site Altitude:
 0.00 Ft

 TSP @ Sea Level:
 1.99 in. Wg.

#### MOTOR SELECTION:

 Rated HP / Bypass:
 3 x 2 / No

 Frame Size:
 145TC

 Nominal RPM:
 1760

 VAC/PH/HZ:
 208/3/60

 Ffficiency:
 Description

Efficiency Premium / 0.914

**Enclosure Type**: ODP **Max Inertial Load**: 29 WR<sup>2</sup>

#### **FAN PERFORMANCE:**

**RPM**: 1888 **BHP**: 2.27

Efficiency:

In/Out Velocity: 2251/2358 FPM

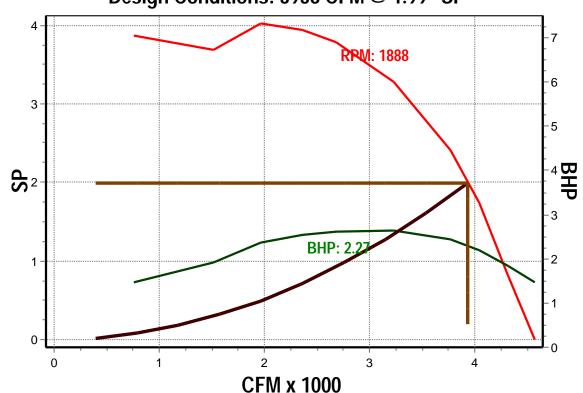
Plenum Out Velocity: 89 FPM

#### FAN SOUND POWER x 2 Fans (In/Out):

Octave	Band:			( <b>R</b> e 1	10^-12 w	atts)	
1	2	3	4	5	6	7	8
91	89	93	91	84	82	80	74
91	89	93	91	84	82	80	74
SOUND	POWE	R A-Weig	hted: 9	3 / 93 dB			

Max Duct SP with Blocked Airway: 4 in. Wg. @ 1888 rpm

# Supply Fan Model: RN185 @ 1888 RPM and 100% Width Design Conditions: 3938 CFM @ 1.99" SP







### **Unit Submittal**

Date Printed: 2/14/2024 4:57:15 PM

203 Gum Springs Road - Longview, TX 75602 - Ph. (903) 236-4403 Fax (903) 236-4463 AAONEcat32 Ver. 4.344 (SN: 6974352-DLQG0UN0)

V3-ERB-8-0-162C-7K4:F33E-FAH-000-A00-00A0010-00-DA000B000

Tag: Split AHU #1

Job Name:UK Whitehall PrintshopUnit Submittal For:Job Number:32177Unit Submittal Date:February 14, 2024

	Base Option	Description
V	Series	Vertical Unit
3	Generation	Third Generation
E	Unit Size	Up to 10,000 cfm
R	Unit Orientation	Right Hand Connections - Top Discharge, Back Intake (Vertical)
В	Revision	Second Revision
8	Voltage	208V/3Ø/60Hz
0	Corrosion Protection	None
1	Cooling Type	R-410A DX Cooling
6	Cooling Rows	6 Row Coil
2	Cooling Stages	Two Circuits - Interlaced Coil
С	Cooling FPI	12 fpi
7	Heating Type	Electric Heat
K	Heating Designation	70 kW (52.5 kW @ 208V)
4	Heating Stages	4 Stage

	Feature Option Description	
F	1A. SA Blower Configuration	2 Blowers + 2 Perm Magnet AC TEFC Motors + 2 VFDs
3	1B. SA Blower Model	18.5" Backward Curved Plenum
3	1C. SA Blower Motor	3 hp
E	1D. SA Blower Control/Contol Vendor	VCC-X Orion Controls System
F	2. Refrigeration Options	Heat Pump + Modulating Hot Gas Reheat
Α	3. Special Controls	Constant Volume Controller - CV Cool + CV Heat
Н	4. Additional Controls 1	Remote Safety Shutdown Terminals
0	5A. Mixing Box - RA Damper Position	Standard - None
0	5B. Mixing Box - OA Damper Position	Standard - None
0	5C. Damper Control	Standard - None
Α	6A. Filter Box - Pre Filter Box	2" Pleated - 30% Eff.
0	6B. Filter Box - Unit Filter	Standard - None
0	6C. Filter Box - Final Filter Box	Standard - None
0	7. Filter Options	Standard - None
0	8. Coil Coating	Standard - None
Α	9. Expansion Valve	Thermal Expansion Valves
0	10. Expansion Valve Controls	None
0	11. External Paint	Standard - None
1	12. Tonnage	18 ton Capacity
0	13. Energy Recovery Type	Standard - None
0	14A. Power Options	Standard Power Block
0	14B. Electrical Rating	Standard
D	15. Control Panel	Removable Internal Control Panel (Single Side Access)
Α	16. Shipping Splits	Filter Box & Coil Box / Supply Fan & Heat Box
0	17. Energy Recovery Cabinet	Standard - None
0	18. Preheat	Standard - None
0	19. Exhaust Fan	Standard - None
В	20. Crating	Forkliftable Base - 5" Base
0	21. Additional Controls 2	Standard - None
0	22. Warranty	Standard - 1 Year Parts
0	<b>23</b> . Type	Standard



## **VCCX Components**

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.344 (SN: 6974352-DLQG0UN0)

V3-ERB-8-0-162C-7K4:F33E-FAH-000-A00-00A0010-00-DA000B000

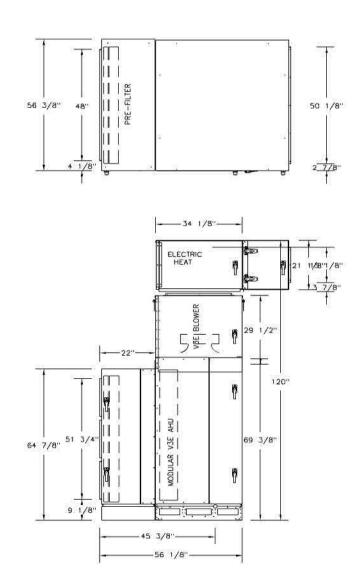
Tag: Split AHU #1

Job Name: UK Whitehall Printshop VCCX For:

Job Number: 32177 VCCX Date: February 14, 2024

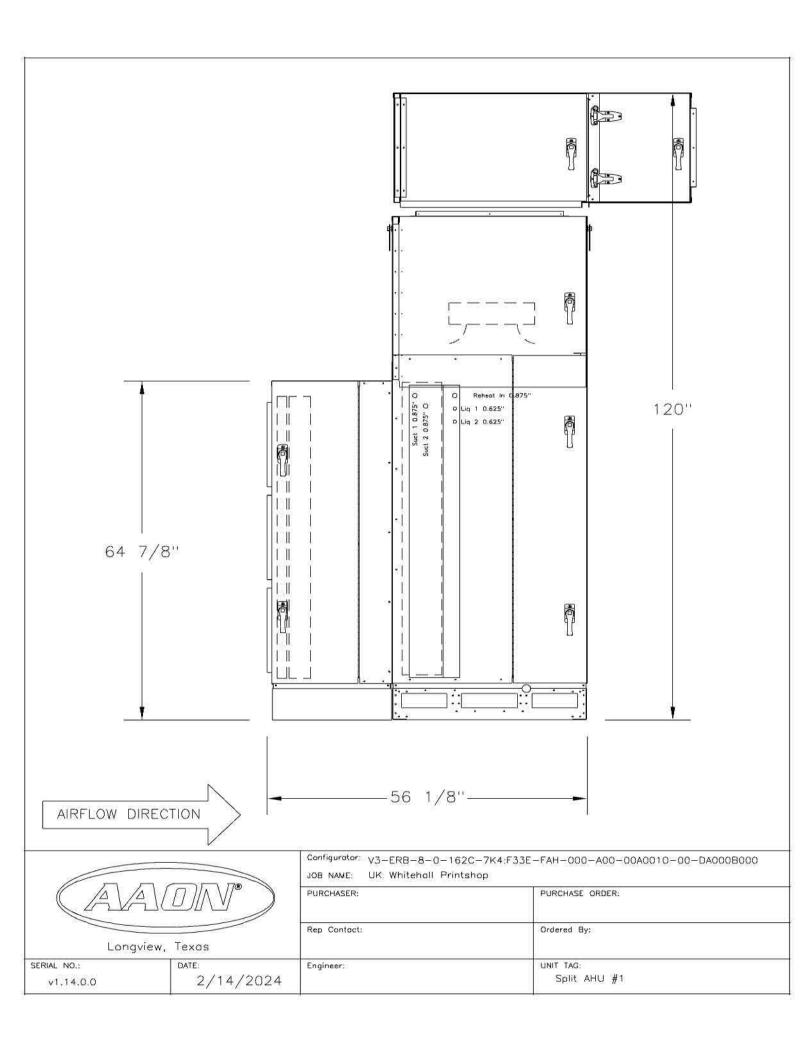
#### Hardware Included For VCCX Controller

Part #	Included Parts	Assigned Channel	BACnet Point
ASM01698	VCCX2 CONTROLLER		
ASM01820	Space Digital Temp/Hum Sensor	EBUS3 communicating sensor	AI:12,AI:13
R82890	Supply Temp Sensor - Field Installed	VCCX control point AI 3	AI:9
ASM01635	EBUS DIST HUB	EBUS5 distribution hub	N/A
R81550	Outside Temp Sensor	VCCX control point AI 7	AI:16
	Safety Shut Down	VCCX control point BI 8	BI:26
	Heat 1	Configured Relay Point	BI:47
	Heat 2	Configured Relay Point	BI:48
	Heat 3	Configured Relay Point	BI:49
	Heat 4	Configured Relay Point	BI:50





		JOB NAME: UK Whitehall Pr	62C-7K4:F33E-FAH-000-A00-00A0010-00-DA000B000 intshop
		PURCHASER:	PURCHASE ORDER:
Long	view, Texas	Rep Contact:	Ordered By:
SERIAL NO.: v1.14.0.0	DATE: 2/14/2024	Engineer:	UNIT TAG: Split AHU #1





### **Unit Submittal**

Date Printed: 2/14/2024 4:57:30 PM

2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.344 (SN: 6974352-DLQG0UN0)

CFA-018-C-A-8-DJ00L:0-00-E0-00-000-D-HE00-0000E00-0A0000B
Tag: Split CU #1

Job Name:UK Whitehall PrintshopUnit Submittal For:Job Number:32177Unit Submittal Date:February 14, 2024

	Base Option	Description
CF	Generation	CF - Condensing Unit
Α	Major Rev	Major Revision
018	Unit Size	Eighteen
С	Series	C Cabinet
Α	Revision	Minor Revision
8	Voltage	208V/3Ø/60Hz
D	Compressor Style	R-410A Variable Capacity Scroll Comp
J	Condenser Style	Air-Source Heat Pump (Fin and Tube)
0	Configuration	Standard
0	Coating	Standard
L	Staging	2 Variable Refrig Systems

	Feature Option	Description
0	1. Unit Orientation	Vertical Condenser Discharge with End Control Panel
0	2A. Refrigeration Control	Standard
0	2B. Blank	
E		Standard
0	3A. Refrigeration Options	Modulating Hot Gas Reheat [MHGR]
0	3B. Blank	Standard
0	4. Refrigeration Accessories	Standard
	5. Blank	Standard
0	6A. Unit Disconnect Type	Standard Single Point Power Block
0	6B. Disconnect Size	None
0	6C. Blank	Standard
D	7. Accessories	Suction Pressure Transducer on Each Refrigeration System
<u>H</u>	8A. Control Sequence	Constant Volume Heat Pump Unit Controller - CAV Cool + CAV Heat
E	8B. Control suppliers	VCC-X (Main Controller in Air Handling Unit)
0	8C. Control Supplier Options     BMS Connection and	Standard
0	8D. Diagnostics	Standard
0	9. Blank	Standard
0	10. Blank	Standard
0	11. Maintenance Accessories	Standard
0	12. Code Options	Standard ETL U.S.A. Listing
E	Air Cooled Condenser  13. Accessories	VFD Controlled Condenser Fans / Head Pressure Control
0		
0	14. Blank	Standard
0	15. Blank	Standard
A	16. Electrical Options	Standard
0	17. Shipping Options	Crating
0	18. Blank	Standard
	19. Blank	Standard
0	20. Cabinet Material	Standard - Galvanized Steel Cabinet
0	21. Warranty	Standard Warranty
В	22. Paint and SPAs	Premium AAON Gray Paint Exterior



## **VCCX Components**

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2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph. (918) 583-2266 Fax (918) 583-6094 AAONEcat32 Ver. 4.344 (SN: 6974352-DLQG0UN0)

CFA-018-C-A-8-DJ00L:0-00-E0-00-D-HE00-0000E00-0A0000B

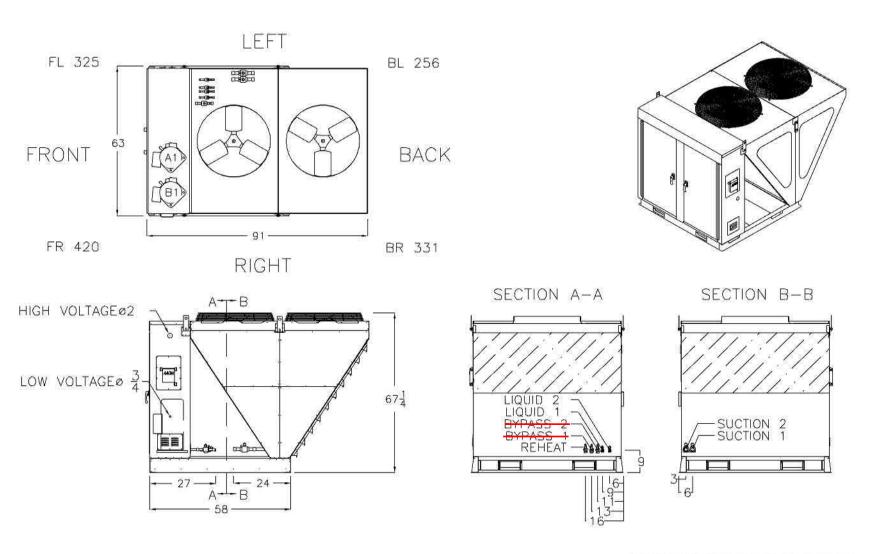
Tag: Split CU #1

Job Name: UK Whitehall Printshop VCCX For:

Job Number: 32177 VCCX Date: February 14, 2024

#### **Hardware Included For VCCX Controller**

Part #	Included Parts	Assigned Channel	BACnet Point
ASM02201	DIGITAL REFRIGERATION MODULE		
R42680	Comp Discharge Temp A	RSMD point TEMP1	AI:66
R42680	Comp Discharge Temp B	RSMD point TEMP2	AI:67
V38391	Suction Pressure Sensor B	RSMD point Al3	AI:54
V38391	Suction Pressure Sensor A	RSMD point Al1	AI:48
V38410	Discharge Pressure Sensor A	RSMD point HP-1	AI:50
V38410	Discharge Pressure Sensor B	RSMD point HP-2	AI:75
	Modulated Condenser Signal A	RSMD point AO1	AI:46
G017740	O.D. Coil Defrost Temp Switch	RSMD point BIN3	BI:81
	Comp Status Input A	RSMD point BIN1	BI:77
	Comp Status Input B	RSMD point BIN2	BI:78
	Emergency Shutdown	RSMD point BIN4	BI:83
	Condenser Enable A	RSMD Fixed Relay point	BI:86
	Comp Enable A	RSMD Fixed Relay point	BI:84
	Comp Unload Signal A	RSMD point T1	AI:44
	Comp Unload Signal B	RSMD point T2	AI:45
	Comp Enable B	RSMD Fixed Relay point	BI:85
	Condenser Enable B	RSMD Fixed Relay point	BI:87
	Comp Cir Reversing Valve	RSMD Fixed Relay point	BI:88
ASM01670	MODULATING HOT GAS REHEAT MODULE		
	Reheat HGR Valve	MHGRV-X	AI:42



#### CONFIGURABLE OPTIONS SHOWN

#### All dimensions are in units of inches



Job Name:	UK Whitehall Printshop		Unit Tag: Split CU #1							
Configurator: CFA-018-C-A-8-DJ00L:0-00-E0-00-000-D-HE00-0000E00-0A0000B										
Shipping Weig	nt: 1332 (±5%)	Operating Weight: 1332 (±5%)								
Clearances:	Compressor End: 36 Left:	30 Right: 36 Piping Connection	n End: 6 Top: OPEN							
Dote:	2/14/2024		Saftware Ver. 4.344 v2.6.0.0							

### **ADDENDUM**



Date: 03/15/2024

Project: UK White Hall Classroom Building Renovation – User Relocation

KFI Project Number: 23-0097

Addendum Number: 001

THIS ADDENDUM IS A CONTRACT DOCUMENT AND MAY APPLY TO ANY OR ALL CONTRACTS AND SUBCONTRACTS UNLESS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE ATTACHED DRAWINGS (IF ANY). ALL WORK REQUIRED BY THIS ADDENDUM SHALL BE IN COMPLETE ACCORD WITH THE CONTRACT DOCUMENTS AND SUBSEQUENT ADDENDA THERETO. THE ITEMS LISTED IN THIS ADDENDUM ARE NOT IN ANY ORDER IN REGARD TO THE DRAWINGS OR THE SPECIFICATIONS. ALL CONTRACTORS ARE CAUTIONED TO EXAMINE EACH AND EVERY ITEM OF THIS ADDENDUM.

THE FOLLOWING CHANGES OR CLARIFICATIONS TO THE PLANS & SPECIFICATIONS SHALL BE INCLUDED AS PART OF THE CONTRACT DOCUMENT

#### SPECIFICATION CHANGES:

Section Number: 230500 Common Work Results for HVAC

Add the following:

- 1.18 Renovation & Demolition Work in Existing Building
  - F) Provide temporary MERV 8 or better filter media over each return or exhaust inlet within the scope of work area to prevent air contaminants from entering existing systems. Check the filters every week, and replace them when dirt starts building up on them. Keep temporary filters in place until scope of work area has been finished and is ready to occupy.

#### PLAN SHEET CHANGES:

- 1. Attached Sheet E 1.2 Added view for roof equipment connection locations. Modified panel schedule. Added coded notes. Revisions to new work for HVAC equipment.
- 2. Attached Sheet F 1.21 New sheet added.
- 3. Attached Sheet M 1.1 Revisions to coded notes on new work.
- 4. Attached Sheet M 1.2 Revisions to condensate piping and coded notes on new work.
- 5. Attached Sheet M 1.3 New sheet added.
- 6. Attached Sheet M 7.0 Detail removed and note added.

END OF ADDENDUM

Page 1 of 1 Find a way.

CHECKED WPW

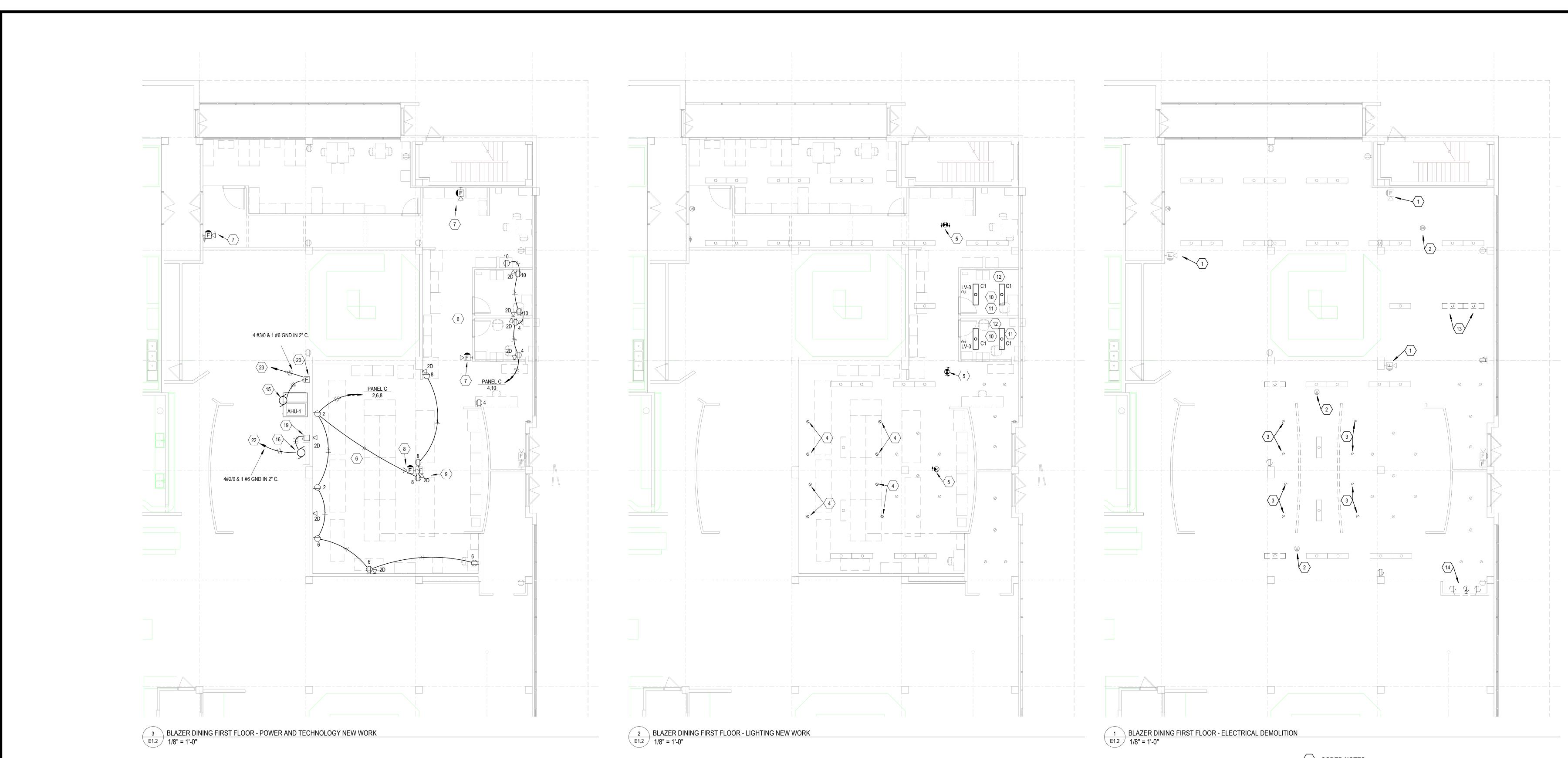
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SHERMAN CARTER BARNHART
ARCHITECTS, PLLC

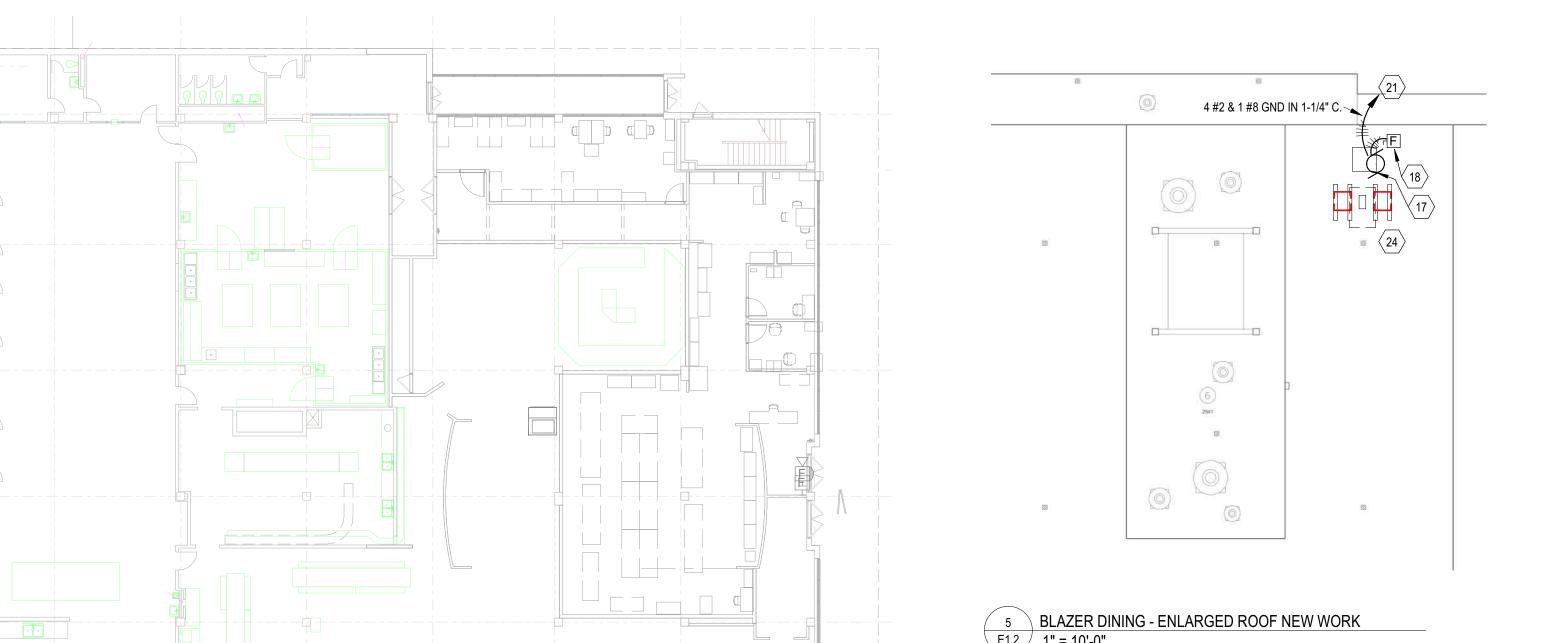
REVISIONS

No. Description Date

1 ADDENDUM 1 03/15/24

E1.2





PANEL C  LOCATION: SUPPLY FROM: MOUNTING: RECESSED ENCLOSURE TYPE: NEMA1		VOLTAGE: 208Y/120 PHASE: 3 WIRES: 4								SCCR. RATING:  MAIN TYPE MAIN CB  BUS RATING: 400 AMPS  MCB RATING: 400 A			
CKT#	CIRCUIT DESCRIPTION	TRIP	POLES	A		В		С		POLES	TRIP	CIRCUIT DESCRIPTION	CKT#
1		11111			360 VA					1		RCPT- RICOH SPACE	2
	EXISTING BREAKER	100 A	3	<b>3</b> 17 1		0 VA	540 VA			1		RCPT- RICOH SPACE	4
5		1007							540 VA			RCPT- RICOH SPACE	6
	EXISTING BREAKER	20 A	1	0 VA	540 VA			<u> </u>	0.0.7.	1		RCPT- RICOH SPACE	8
	EXISTING BREAKER	20 A	1				540 VA			1		RCPT- RICOH SPACE	10
-	EXISTING BREAKER	20 A	1					0 VA	0 VA	1		EXISTING BREAKER	12
13		1		0 VA	0 VA					-			14
	EXISTING BREAKER	30 A	3			0 VA	0 VA			3	20 A	EXISTING BREAKER	16
17								0 VA	0 VA				18
19				0 VA	0 VA					1	20 A	EXISTING BREAKER	20
21	EXISTING BREAKER	20 A	3			0 VA	0 VA			1	20 A	EXISTING BREAKER	22
23								0 VA	0 VA	1	20 A	EXISTING BREAKER	24
25	EVIOTINO PREAVER	50 A		0 VA	0 VA					1	20 A	EXISTING BREAKER	26
27	EXISTING BREAKER		2			0 VA	0 VA			1	20 A	EXISTING BREAKER	28
29	ODADE	20.4						0 VA	0 VA		00.4	A EVICTINO PREALCER	30
31	SPARE	20 A	2	0 VA	0 VA					2	20 A	EXISTING BREAKER	32
33	EXISTING BREAKER	20 A	1			0 VA	0 VA				20.4	EVICTING DDE AVED	34
35	EXISTING BREAKER	20 A	1					0 VA	0 VA	2	20 A	EXISTING BREAKER	36
37	EVICTING PREALER	00.4		0 VA	0 VA					1	20 A	EXISTING BREAKER	38
39	EXISTING BREAKER	20 A	2			0 VA	0 VA			1	30 A	EXISTING BREAKER	40
41	EXISTING BREAKER	20 A	1					0 VA	0 VA	1	20 A	EXISTING BREAKER	42
'		TOTA	LOAD:	900	O VA	108	0 VA	540	VA				
		TOTA	_ AMPS:	8	ВА	9	Α	5	Α	1			
					1								
CIRCUI	F BREAKER NOTES:		•	=		•							:
R = REC	CEPTACLE LOAD						SH = SH	IUNT TE	RIP				
_ = LIGH	ITING LOAD						LO = LC	CK OU	L DEVICE	Ξ			
GFI = G	FCI CIRCUIT BREAKER (PERSONNEL PROTECT	ΓΙΟΝ)					LN = LO	CK ON	DEVICE				
GFE = G	FI CIRCUIT BREAKER (EQUIPMENT PROTECTI	ON)											
PANELE	BOARD NOTES:												
<u> </u>							DMODAT						

# CODED NOTES:

- 1 FIRE ALARM DEVICE IS TO BE RELOCATED. INSTALL BLANK COVER PLATE ON BOX AFTER DEVICE IS REMOVED. SEE NEW WORK PLANS.
- 2 EXISTING EXIT SIGN IS TO BE REMOVED AND REUSED. EXTEND CIRTCUIT AS REQUIRED. SEE NEW WORK PLANS.
- 3 EXISITNG LIGHT FIXTURE IS TO BE DEMOLISHED AND REMOVED. CIRCUITING IS TO REMAIN AND BE REUSED.
- 4 LIGHT FIXTURE IS TO BE INSTALLED IN EXISTING GRID CEILING. CONNECT TO EXISTING CIRCUIT. SEE NOTE 3 THIS SHEET. LIGHT FIXTURE IS TO BE LITHONIA LDN6 40/10 LO6 AR LSS MVOLT OR EQUAL.
- 5 EXISTING EXIT SIGN IS TO BE RELOCATED TO THIS LOCATION. EXTEND CIRCUITING AS REQUIRED.
- 6 ALL NEW RECEPTACLE CIRCUITS SHALL BE FED FROM OVER HEAD AND DOWN NEW WALLS.
  7 RELOCATED FIRE ALARM DEVICE, EXTEND CIRCUITING AS REQUIRED. SEE DEMO PLANS.
- 8 NEW FIRE ALARM DEVICE. CONNECT TO EXISTIGN FIRE ALARM SYSTEM.
- 9 ALL NEW DEVICES LOCATED ON COLUMN ARE TO BE SURFACE MOUNTED. CIRCUITING IS TO BE RAN IN METAL CHANNEL SURFACE RACEWAY.
- 10 LIGHT FIXTURES IN THIS ROOM ARE TO BE MOUNTED SO THAT BOTTOM OF FIXTURE IS AT 10' A.F.F.
- 11 LIGHT FIXTURE C1 IS TO BE LITHONIA BLWP4 60L ADSM MVOLT LP840 OR EQUAL.
- 12 LIGHT FIXTURES IN THIS ROOM ARE TO BE TIED INTO EXISITING CIRCUIT.
- 13 LIGHT FIXTURE IS TO BE DEMOLISHED AND REMOVED. CIRCUIT IS TO REMAIN AND BE REUSED SEE NEW WORK PLANS.
- ALL ELECTRICAL DEVICES ON THIS WALL ARE TO BE DEMOLISHED AND REMOVED. ALL CONDUIT AND WIRING ASSOCIATED WITH THESE DEVICES ARE TO BE REMOVED BACK TO SOURCE.
- 15 PROVIDE ELECTRICAL CONNECTION TO AHU-1. COORDINATE WITH MECHANICAL CONTRACTOR.
- 16 PROVIDE ELECTRICAL CONNECTION TO ESH-1. COORDINATE WITH MECHANICAL CONTRACTOR.
- 17 PROVIDE ELECTRICAL CONNECTION TO CU-1. CU-1 IS LOCATED ON ROOF. COORDINATE WITH MECHANICAL CONTRACTOR. SEE MECHANICAL PLANS FOR LOCATION.
- PROVIDE AND INSTALL 100A/208V/3P NEMA 3R DISCONNECT FUSED AT 90A FOR CU-1 UNIT. FUSE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. DISCONNECT IS TO BE MOUNTED ON STRUCTURE. IF BUILDING STRUCTURE IS NOT WITHIN 5 FEET OF MECHANICAL UNIT, PROVIDE UNISTRUT FRAMING TO MOUNT
- 19 PROVIDE AND INSTALL 200A/208V/3P DISCONNECT FOR ESH-1 UNIT.

MANUFACTURERS INSTRUCTIONS.

- 20 PROVIDE AND INSTALL 200A/208V/3P DISCONNECT FOR AHU-1 UNIT. FUSE AT 175A. FUSE IN ACCORDANCE WITH
- 21 CIRCUIT IS TO BE ROUTED TO DISCONNECT LOCATED IN BASEMENT. SEE NOTE 1 ON SHEET E1.21 FOR EXACT
- 22 CIRCUIT IS TO BE ROUTED TO DISCONNECT LOCATED IN BASEMENT. SEE NOTE 4 ON SHEET E1.21 FOR EXACT
- LOCATION OF DISCONNECT.
- LOCATION OF DISCONNECT.

  24 ALL CONDUITS ARE TO BE ROUTED THROUGH ROOF CURB. SEE MECHANICAL PLAN FOR ROOF CURB LOCATION.

23 CIRCUIT IS TO BE ROUTED TO DISCONNECT LOCATED IN BASEMENT. SEE NOTE 3 ON SHEET E1.21 FOR EXACT

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

4 BLAZER DINING FIRST FLOOR - POWER PANEL LOCATION

SHEET

E1.21

CODED NOTES:
 EXISTING 400 AMP DISCONNECT. DISCONNECT IS TO BE REUSED FOR NEW HVAC EQUIPMENT SEE NOTE 21 ON SHEET E1.2 FOR EQUIPMENT TO BE POWERED BY THIS DISCONECT. PROVIDE FUSE CLIPS FOR 90A FUSE IN DISCONNECT.
 DISCONNECTS AT THIS LOCATION ARE STACKED.
 EXISTING 400 AMP DISCONNECT. THIS DISCONNECT IS LOCATED ON TOP. DISCONNECT IS TO BE REUSED FOR NEW HVAC EQUIPMENT SEE NOTE 23 ON SHEET E1.2 FOR EQUIPMENT TO BE POWERED BY THIS DISCONECT.

4 EXISTING 400 AMP DISCONNECT. THIS DISCONNECT IS LOCATED ON THE BOTTOM. DISCONNECT IS TO BE REUSED FOR NEW HVAC EQUIPMENT SEE NOTE 22 ON SHEET E1.2 FOR EQUIPMENT TO BE POWERED BY THIS DISCONECT.

5 EXISTING MCC.

COMM.

119

FOOD SERVICE

3D 2,527

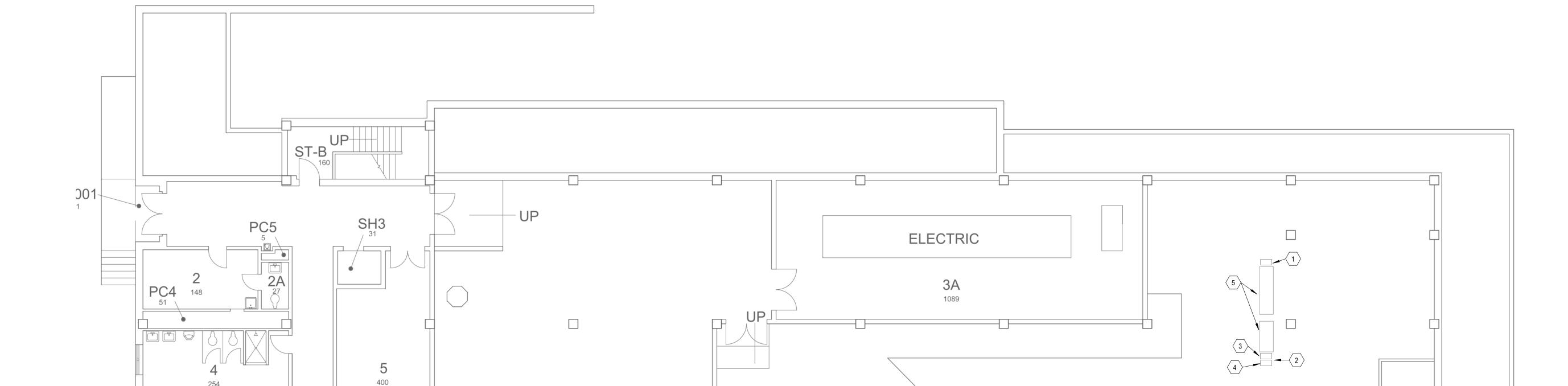
FOOD SERVICE

CBMI

CONFERENCE 3G

> 3K 1,350

**3L** 2,660



MECH.

2,161

MAINT 15B 50

15C

18 121 3H 918

> RES. LIFE 15D 254

> > HOUSE KEEPING 15E 285

> > > FURNITURE: HOUSING

> > > > 15F <sub>2,496</sub>

**3** 3,459

**15** 2,591

3B 139

UP 157

16 245

BLAZER DINING - BASEMENT POWER PLAN

6A

12A

02/16/2024

RJS

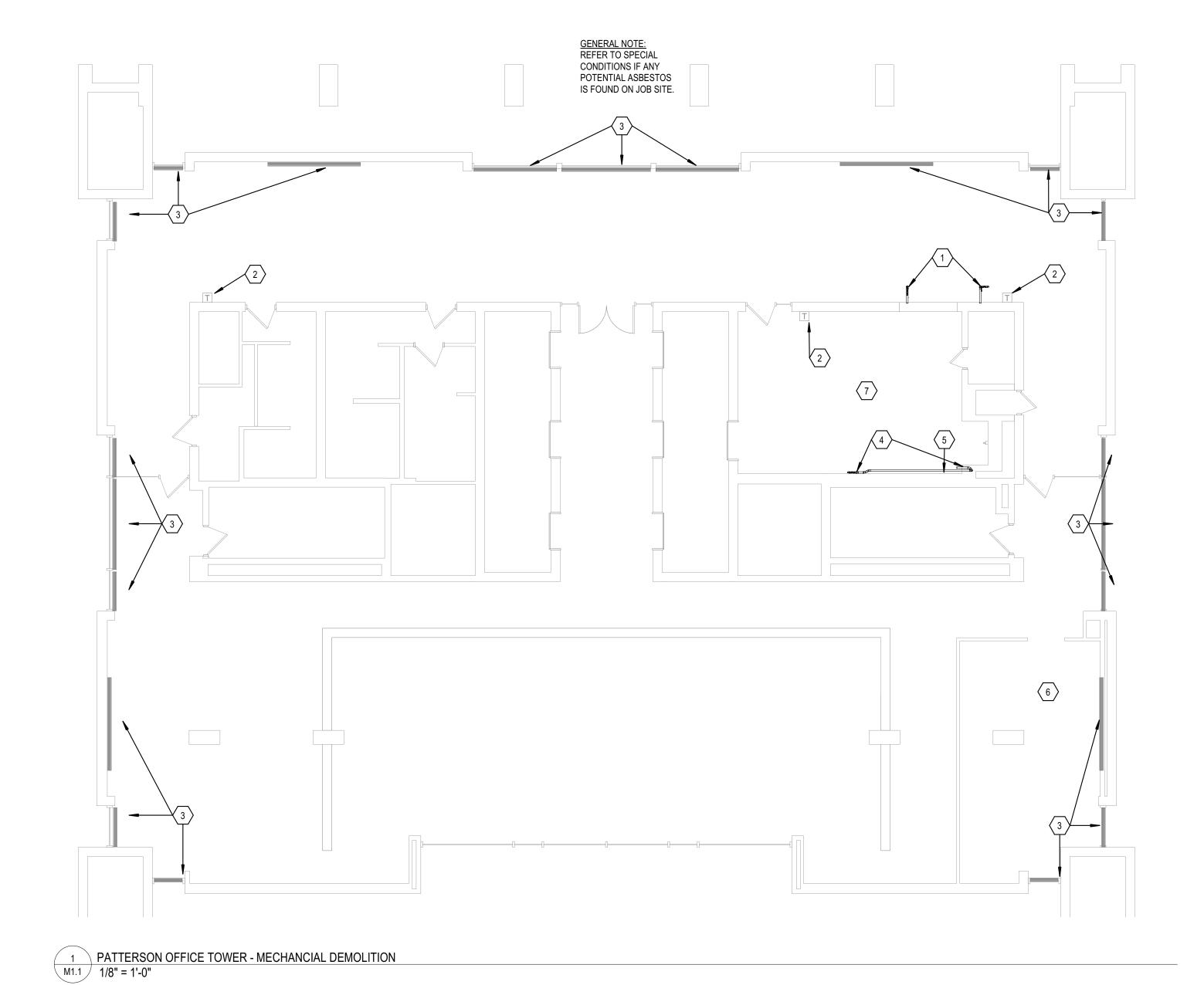
DRAWN

USP LOBBY BUSSINESS SUPPLIES & METERING MACHINE 105 ELEVATOR LOBBY 101 SOUTH STAIR WILDCAT WARDROBE 110 OVERLOOK / CIRCULATION WARDROBE 111 PATTERSON OFFICE TOWER - HVAC NEW WORK

1/8" = 1'-0"

CODED NOTES:

1 EXISTING CAFE SERVICE WINDOW TO REMAIN OPEN ALLOWING AIR TO TRANSFER FROM SPACES. 2 CONNECT TO TRANSFER GRILLE ON BACK FACE INSIDE OF MATHSKELLER, 36"x8" TO ALLOW FOR RELIEF. AIR. PROVIDE 36"x8"x96" PRICE RL RECTANGULAR SILENCER. ALUMINIUM CONSTRUCTION WITH EXTENDED CASING FOR SOUND ATTENUATION. ARCHITECT TO SELECT PAINT COLOR FOR OUTSIDE OF SILENCER TO BE PAINTED. PROVIDE PRICE ATG1 TRANSFER GRILLE, 36"x8" ON ENTRY SIDE ABOVE DOOR. SELECTION BY OWNER FROM MANUFACTURERS STANDARD SELECTIONS.



## CODED NOTES:

- 1 DEMOLISH EXISTING PLUMBING PIPING. CAP VENT PIPE AT WALL MAIN. CAP SANITARY LINE AT FLOOR MAIN. VALVE AND CAP DOMESTIC WATER FEED ABOVE FIRST FLOOR CEILING. DEMOLISH ALL EXISTING AND EXPOSED PIPING ON MEZZANINE LEVEL.
- 2 EXISTING THERMOSTAT TO REMAIN.
- 3 EXISTING UNDER FLOOR FED REGISTER WITH CONCEALED FASTENERS TO REMAIN.
- 4 DEMOLISH EXISTING PLUMBING PIPING. CAP VENT PIPE ABOVE ACT CEILING. CAP SANITARY LINE AT FLOOR MAIN. DEMOLISH ALL EXISTING AND EXPOSED PIPING ON MEZZANINE LEVEL.
- 5 EXISTING DOMESTIC WATER LINE FEED TO REMAIN VALVED IN PLACE.
- 6 DEMOLISH EXISTING PLUMBING PIPING IN SPACE. CAP ALL VENT PIPING AND LEAVE NONE EXPOSED. CAP ALL SANITARY LINES AT FLOOR MAIN. VALVE AND CAP DOMESTIC WATER FEED ABOVE FIRST FLOOR CEILING. DEMOLISH ALL EXISTING AND EXPOSED PIPING ON MEZZANINE LEVEL.
- 7 DEMOLISH EXISTING GREASE INTERCEPTOR AND ASSOCIATED PIPING FROM BASEMENT ROOM OB29. GREASE INTERCEPTOR SERVED THIS PREVIOUS KITCHEN SPACE. CONTRACTOR TO INFORM AND DOCUMENT WITH PHOTOS AND UPDATED PIPE ROUTING WHEN GREASE INTERCEPTOR HAS BEEN REMOVED FROM SANITARY SYSTEM. PROVIDE DOCUMENTATION TO OWNER FOR UNIVERSITY ENVIRONMENTAL QUALITY MANAGEMENT.

02/16/2024

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE MATERIAL NOTES RETURN EGGCRATE RETURN GRILLE ALUMINUM 1,2,3,4,5 SUPPLY 3-CONE DIFFUSER ALUMINUM

4. COORDINATE ALL FRAMES AND BORDER TYPES FOR DUCT CONNECTION AND CEILING/WALL INSTALLATION PROVIDE TRANSITIONS AS NECESSARY TO ACCOMPLISH CONNECTION

ADDITIONAL EQUIPMENT: THIS EQUIPMENT SHALL BE OWNER PURCHASED AND CONTRACTOR INSTALLED.

3. COORDINATE ALL GRILLES, REGISTERS AND DIFFUSER LOCATIONS W/ LIGHTS SHOWN ON REFLECTED CEILING PLAN

ESH-1 (ELECTRODE STEAM HUMIDIFIER): CONDAIR, EL020, NOMINAL CAPACITY OF 20 LBS/HR, 1 CYLINDER TYPE 303, FILL RATE 0.2 GPM, DRAIN RATE 1.6 GPM, MINIMUM WATER PRESSURE 30PSIG. FOR DUCT SIZE 30"X30", 7877 CFM, OUTSIDE AIR - 270 CFM. ELECTRICAL DATA: INPUT kW MAX 28.1, 208V, 3 PHASE, MCA-21A, MOCP-25A.

CU-1 (OUTDOOR CONDENSING UNIT): AAON, CFA-018-C-A-8-DJ00L, TOTAL CAPACITY 205.89 MBH, SENSIBLE CAPACITY 190.06 MBH, LATENT CAPACITY 15.82 MBH. ELECTRICAL DATA: 208V, 3 PHASE, FLA 62A, MOP 90A, MCA 69A.

AHU-1 (INDOOR AIR HANDLING UNIT): AAON, V3-ERB-8-0-162C-7K4, 7877 CFM, BHP 2.77, STATIC PRESSURE 2", SOUND POWER 92 dB, AMBIENT TEMP 91 DB / 78 WB. HOT GAS REHEAT COIL CAPACITY 127 MBH, REHEAT COIL LEAVING AIR TEMP 70, RH-57%. EAT (RETURN) - 76 DB / 63 WB, LAT - 55 DB / 54 WB, OUTSIDE AIR - 270 CFM.

ELECTRICAL DATA: 208V, 3 PHASE, FLA 160A, MOP 175A, MCA 163A.

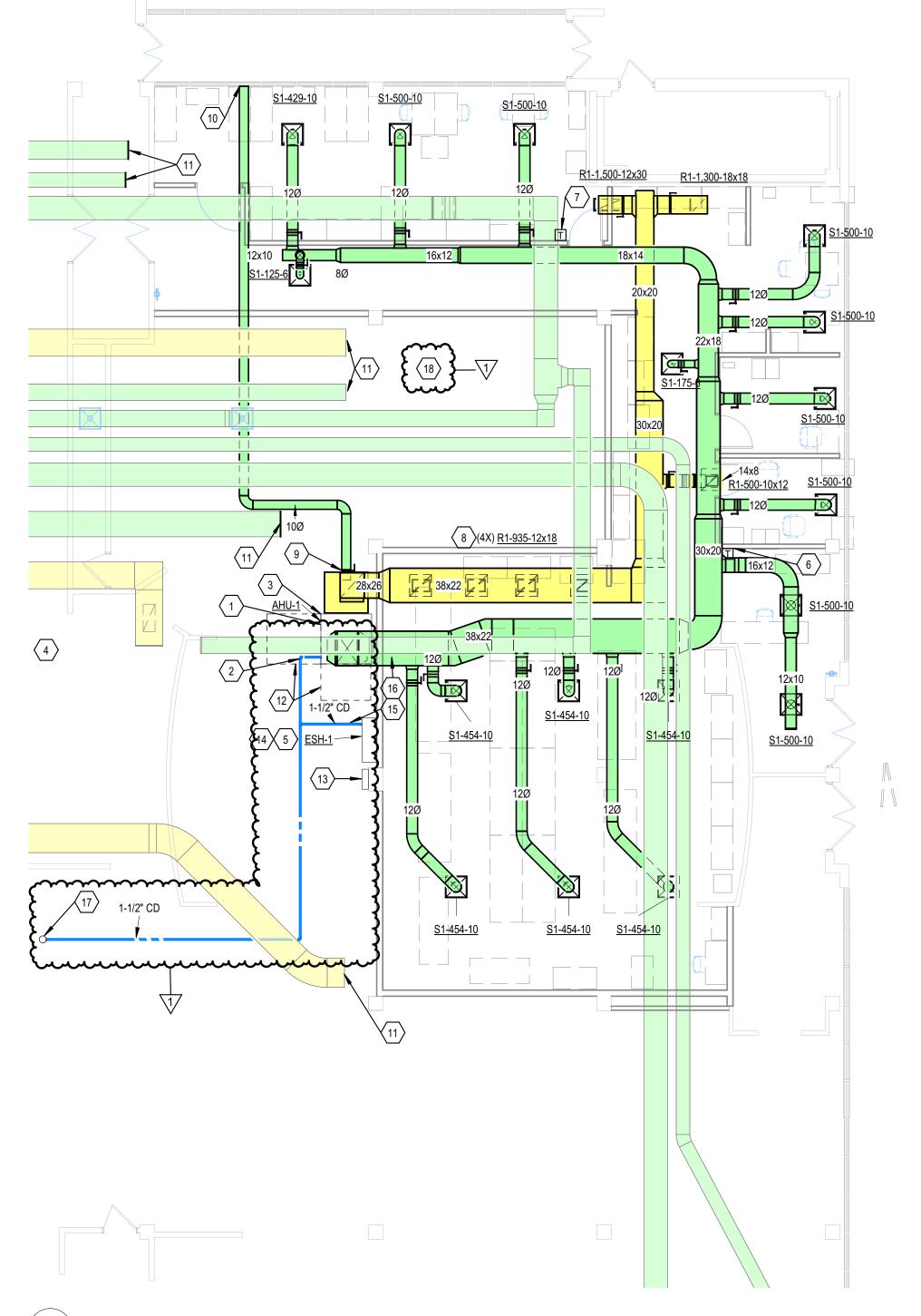
1. SUBMIT COLOR CHART FOR APPROVAL BY ARCHITECT

5. WITH OPPOSED BLADE, VOLUME DAMPER

2. VERIFY LAY IN VS. SURFACE MOUNT W/ REFLECTED CEILING PLAN

PROVIDE AAON UNIT WITH BACNET/IP CARD FOR FUTURE CONNECTION.

AUXILIARY HEAT - ELECTRIC 4 STAGE, TOTAL CAPACITY - 179.2 MBH, INPUT-52.5 KW, FLA-145.7A. EAT - 55 DB / 50 WB, LAT - 76 DB / 59 WB.



M1.2 1/8" = 1'-0"

- 1 NEW INDOOR AIR HANDLING UNIT FEEDING NEW RICOH PRINT AREA. MOUNT AHU ON PLATFORM/STRUCTURE TO ALLOW FOR PROPER INSTALLATION OF DRAIN P-TRAP.
- 2 AHU 1-1/2" CONDENSATE PIPING TO RUN TO NEAREST FLOOR DRAIN OUTSIDE OF RICOH PRINTING AREA.
- 3 REFRIGERANT PIPING FOR INDOOR UNIT TO ROUTE IN SPACING THAT WAS PREVIOUSLY USED FOR THE TRANE SPLIT SYSTEM WHICH WAS DEMOLISHED. <del>,</del> 4 NEW CONDENSING UNIT TO BE MOUNTED ON LOWER ROOF (SECOND FLOOR ACCESS) WHERE CURRENT TRANE SPLIT SYSTEM CONDENSING UNITS ARE LOCATED. REFERS
- 5 CONDAIR HUMIDIFIER SYSTEM (WALL MOUNTED) WHICH WILL BE INTEGRATED INTO THE HVAC SYSTEM FOR THE ENTIRE RICOH PRINTING AREA. HUMIDIFIER CONTROLLER INTERFACE TO BE ADJACENT TO UNIT WITH PROPER ACCESSIBILITY PER MANUFACTURERS INSTRUCTIONS.
- 6 PROVIDE MASTER THERMOSTAT AND HUMIDISTAT IN THIS APPROXIMATE LOCATION.
- 7 CONTRACTOR TO PROVIDE MONITORING THERMOSTAT AND HUMIDISTAT IN THIS APPROXIMATE LOCATION. TONER ROOM MAY HAVE DAMPERS ADJUSTED AS NEEDED TO
- 8 PROVIDE BALANCING DAMPER FOR EACH RETURN TAP OFF OF MAIN DUCT.
- 9 OA TO BE BALANCED TO 275 CFM.
- 10 CONNECT NEW DUCT TO EXISTING OA LOUVER.
- 11 EXISTING DUCTWORK TO REMAIN OPEN AFTER DEMOLISHED BACK TO THIS POINT.
- 12 FOOT PRINT FOR UNIT MAINTENANCE AND ACCESSIBILITY.

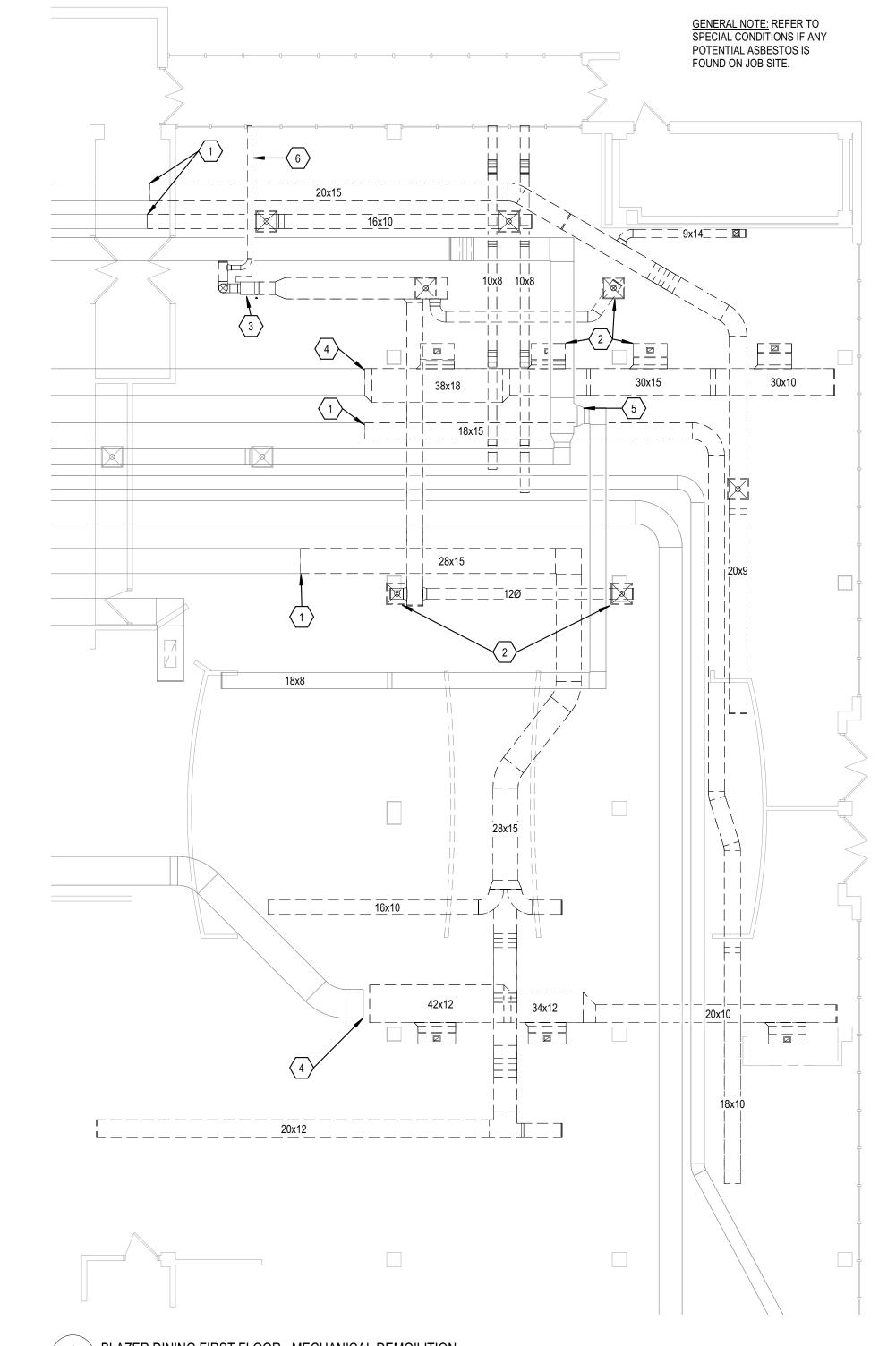
- 15 DRAIN FROM STEAM HUMIDIFIER TO HAVE A TAP FROM DOMESTIC WATER LINE RUNNING TO HUMIDIFIER TO TEMPER THE DRAIN WATER.

- 18 APPROXIMATE LOCATION OF NEAREST DOMESTIC WATER FEED. LOCATED IN EXISTING COOKING/HOOD AREA WHICH IS NOT CURRENTLY BEING USED BUT WATER LINE IS ACTIVE. RUN 3/4" TAP TO FEED STEAM HUMIDIFIER AND DRAIN FOR TEMPERED DISCHARGE.

# 3 BLAZER DINING FIRST FLOOR - HVAC NEW WORK

- MAINTAIN TEMPERATURE AND HUMIDITY.

- 13 INDOOR AHU CONTROL PANEL TO BE MOUNTED TO WALL IN APPROXIMATE LOCATION.
- 14 PROVIDE 3/4" DOMESTIC WATER LINE TO STEAM HUMIDIFIER. RUN FROM NEAREST DOMESTIC FEED IN EXISTING CAFETERIA/KITCHEN.
- 16 DUCT HUMIDIFIER TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS IN THIS APPROXIMATE LOCATION.
- 17 ROUTE CONDENSATE LINE TO EXISTING FLOOR DRAIN IN THIS APPROXIMATE LOCATION.



### BLAZER DINING FIRST FLOOR - MECHANICAL DEMOILITION M1.2 1/8" = 1'-0"

# CODED NOTES:

- 1 DEMOLISH EXISTING SUPPLY DUCTS BACK TO APPROXIMATELY THIS POINT. LEAVE DUCTS OPEN AND UNCAPPED.
- 2 DEMOLISH ALL EXISTING SUPPLY AND RETURN DIFFUSERS IN FUTURE RICOH PRINT SPACE.
- 3 DEMOLISH EXISTING TRANE SUPPLY AIR UNIT AND ALL ASSOCIATED DUCTWORK AND DIFFUSERS. DEMOLISH ALL REFRIGERANT PIPING RUNNING FROM INDOOR UNIT TO OUTDOOR CONDENSING UNIT ON ROOF. DEMOLISH EXISTING ROOFTOP CONDENSING UNIT AND PREP LOCATION FOR A NEW CONDENSING UNIT TO BE MOUNTED ON ROOF.
- 4 DEMOLISH EXISTING RETURN DUCT BACK TO APPROXIMATELY THIS POINT. LEAVE DUCTS OPEN AND UNCAPPED. NO EXISTING RETURN DUCT SHOULD REMAIN IN FUTURE RICOK PRINTING AREA.

DISCONNECT FROM RETURN DUCT TIEING TO CURRENT TRANE UNIT WHICH WILL BE DEMOLISHED.

- 5 DEMOLISH EXISTING SUPPLY DUCT BRANCH. CAP AT MAIN AND LEAVE MAIN IN PLACE.
- 6 DEMOLISH EXISTING OUTSIDE AIR DUCT TO CONNECT TO FUTURE INDOOR UNIT FEEDING THE RICOH PRINTING AREA.

ODED NOTES:

1 EXISTING CONDENSING UNIT TO REMAIN IN PLACE. DEMOLISH EXISTING REFRIGERANT PIPING RUNNING OVER TO ROOF CURB. CAP LINES AT UNIT AND ABANDON IN PLACE.

2 ALL EXISTING MOUNTING RAILS AND ROOF CAP FOR ELECTRICAL AND MECHANICAL PENETRATIONS TO REMAIN.

3 EXISTING TRANE CONDENSING UNITS TO BE DEMOLISHED. DEMOLISH ALL REFRIGERANT LINES AND ELECTRICAL FEEDING EXISTING TRANE UNITS ON ROOF AND

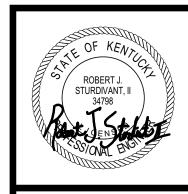
5 NEW ELECTRICAL CONNECTIONS AND MECHANICAL REFRIGERATION LINES TO RUN UNDERNEATH NEW CONDENSING UNIT AND ROUTE THROUGH THE EXISTING ROOF CAP/PENETRATION. PROVIDE NEW CAP AND SEALING ON TOP OF ROOF PENETRATION.

7 EXISTING ROOF DRAIN. ROUTE CONDENSING UNIT CONDENSATE LINE TO ROOF DRAIN.

6 FOOTPRINT OF NEW CONDENSING UNIT. REFER TO STRUCTURAL DETAIL FOR MOUNTING DETAILS TO EXISTING RAILS AND NEW STRUCTURAL SUPPORT.

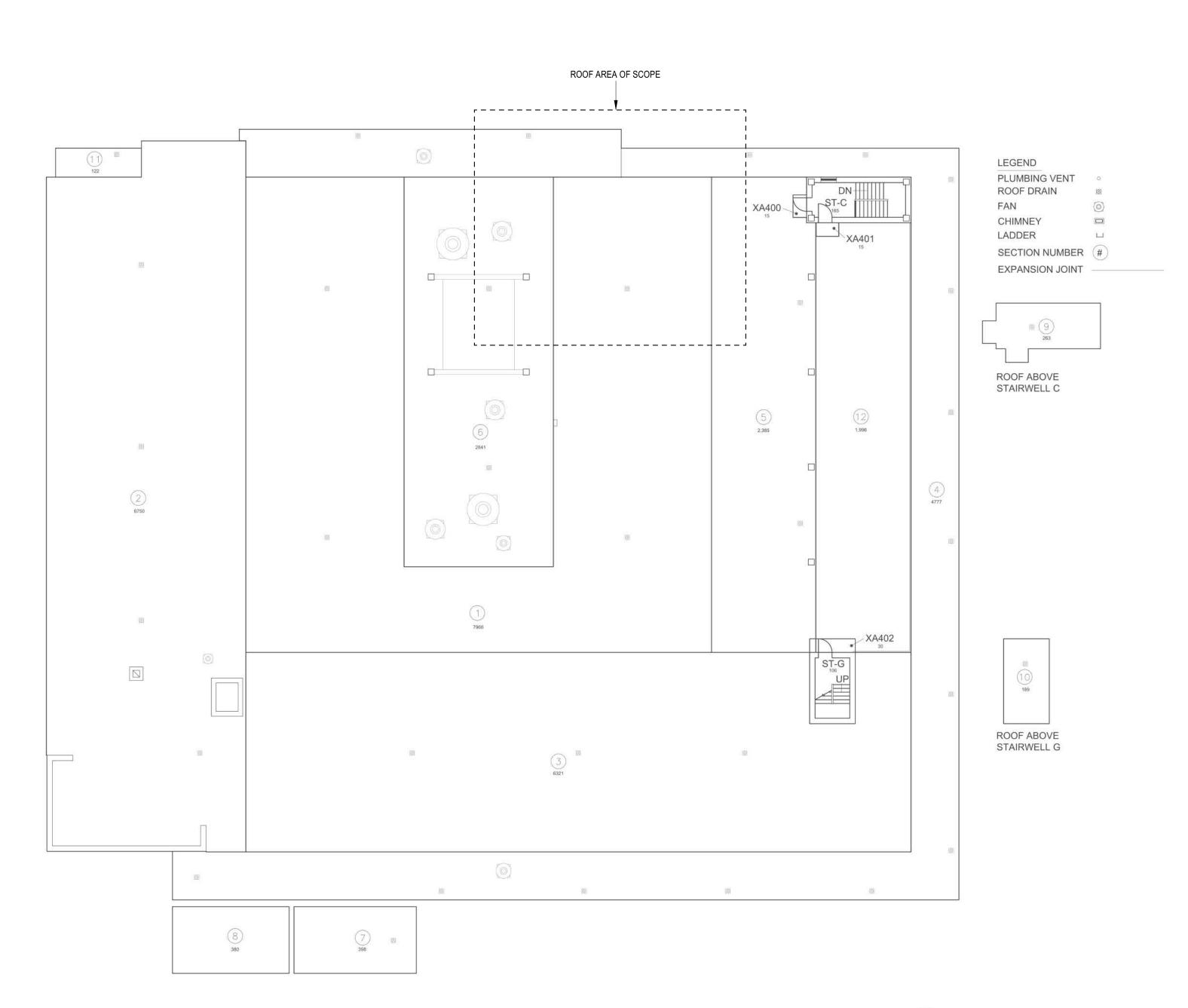
RUNNING THROUGH THE ROOF PENETRATION.

4 REMOVE ALL EXISTING DEBRIS FROM ROOF AREA.



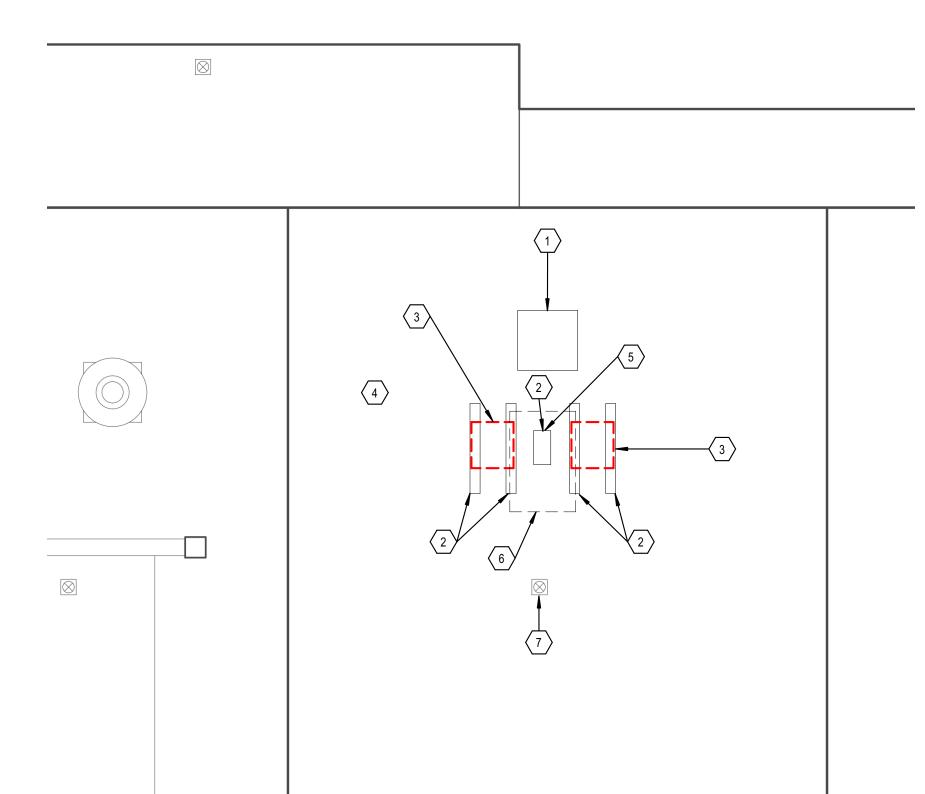


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EXISTING BLAZER 2ND FLOOR ROOF: CONDENSING UNITS, ELECTRICAL, AND MOUNTING RAILS

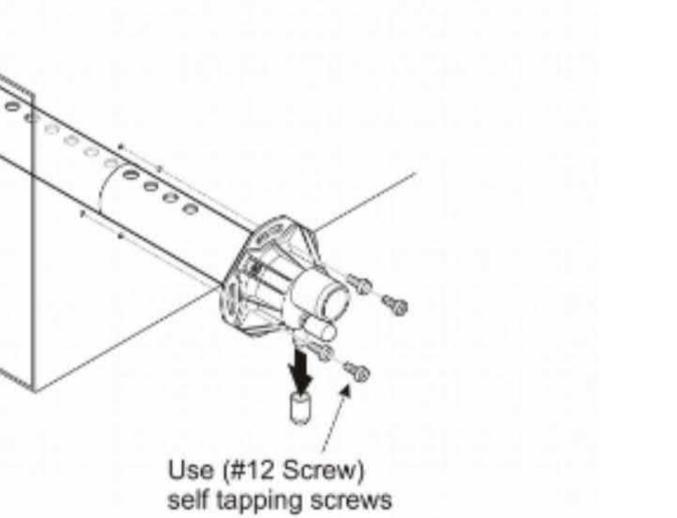


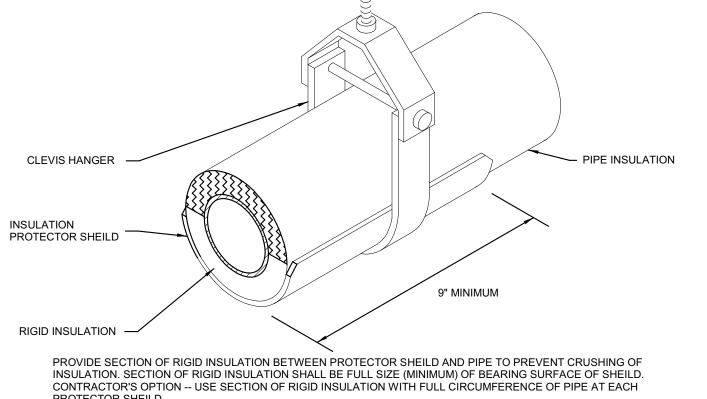


**BLAZER DINING** 

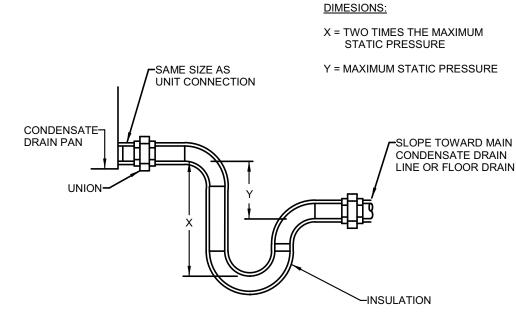
**ROOF PLAN** 

1 BLAZER DINING SECOND FLOOR ROOF PLAN - ENLARGED SCOPE OF WORK AREA NOT TO SCALE

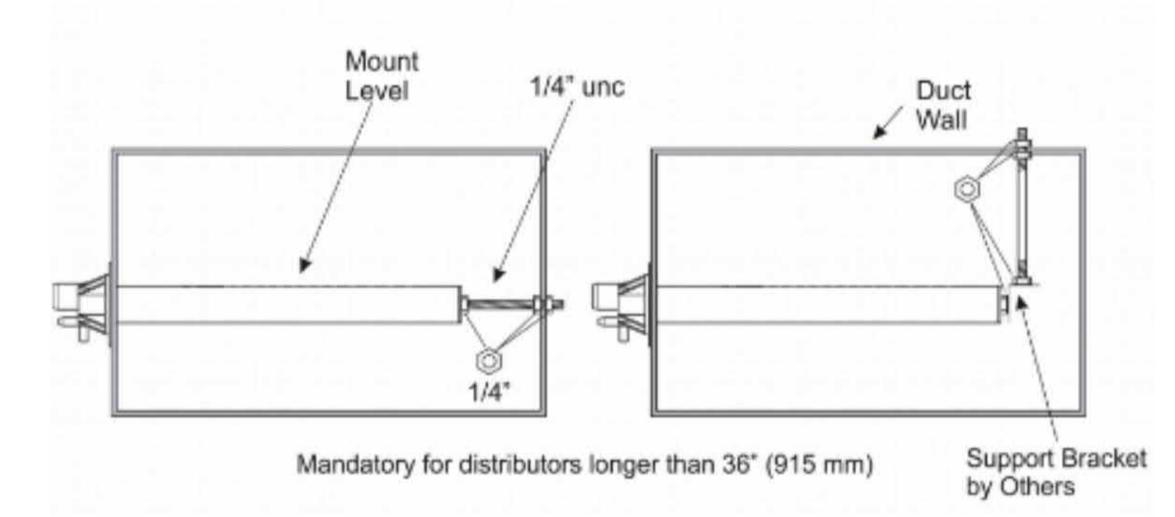


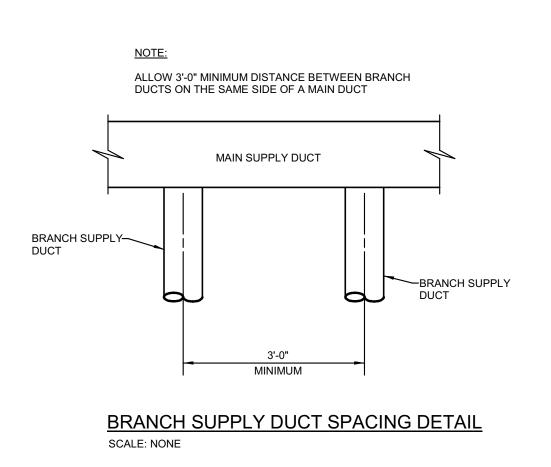


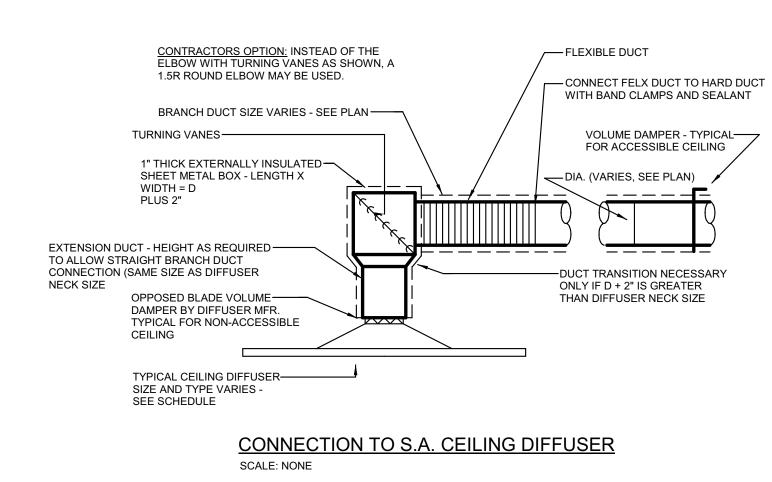
TYPICAL PIPE SUPPORT DETAIL WITH SHIELD SCALE: NONE

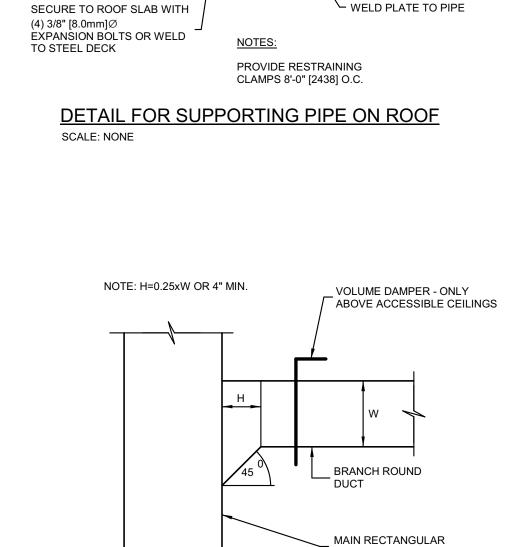


CONDENSATE DRAIN TRAP DETAIL









PROVIDE ALUMINUM JACKET -

HIGH COMPRESSIVE STRENGTH INSULATION INSERT

WELD PIPE SADDLE SUPPORT TO PIPE. PROVIDE WATER TIGHT CONNECTION

CLAMPING RING -

PRE-MOULDED FLEXIBLE

ROOF SURFACE<sub>7</sub>

CONCRETE ROOF SLAB OR STEEL ROOF DECK

ROOF SYSTEM INSULATION

PIPE COUNTER FLASHING

UNDER SHIELD

PIPE AND INSULATION

2" [50mm] STEEL PIPE

- 2-1/2" [65mm] STEEL PIPE

[203x203x8.0mm] STEEL PLATE

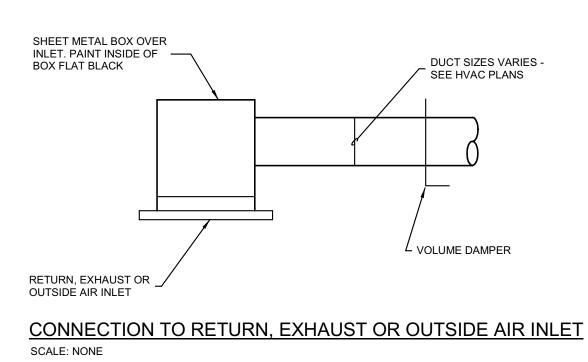
WELD PLATE TO PIPE

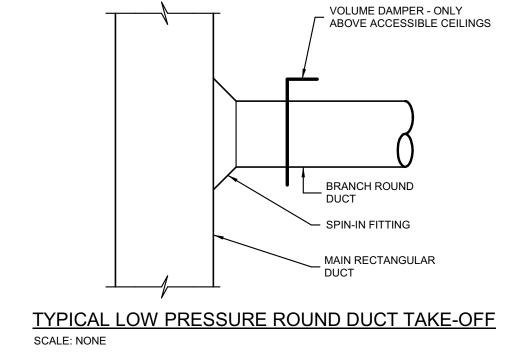
- INSULATION PROTECTION SHIELD

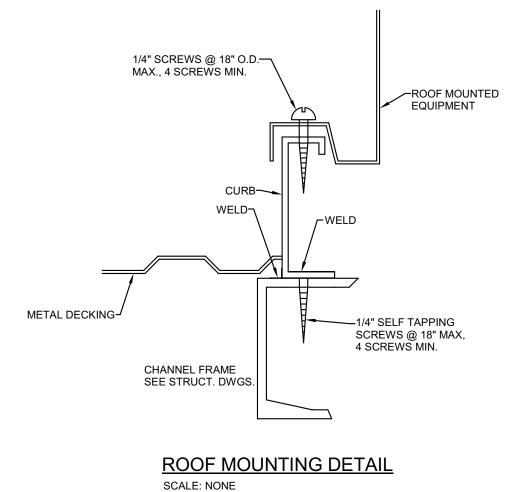
TYPICAL LOW PRESSURE RECTANGULAR DUCT TAKE-OFF

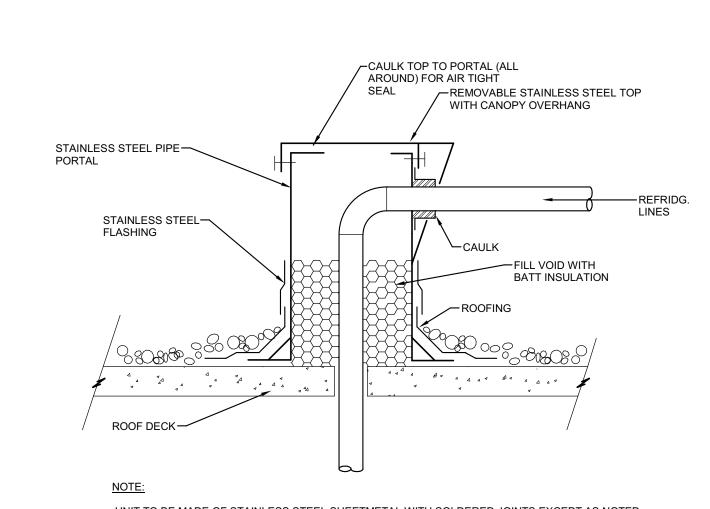












UNIT TO BE MADE OF STAINLESS STEEL SHEETMETAL WITH SOLDERED JOINTS EXCEPT AS NOTED. TYPICAL SECTION DETAIL OF REFRIGERANT PIPING PASSING THRU ROOF