

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246



Report: TAB Report
Function: Test, Adjust, & Balance
Date: 01/03/2025
Completed By: National TAB

PROJECT
SITKA (COLUMBUS, OH)

4173 WORTH AVE.

COLUMBUS, OH 43219

Client

Tri-State Mechanical
4783 Brewer Ln.

Petersburg, KY 41080

National TAB

Project: SITKA (COLUMBUS, OH)

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Certification:



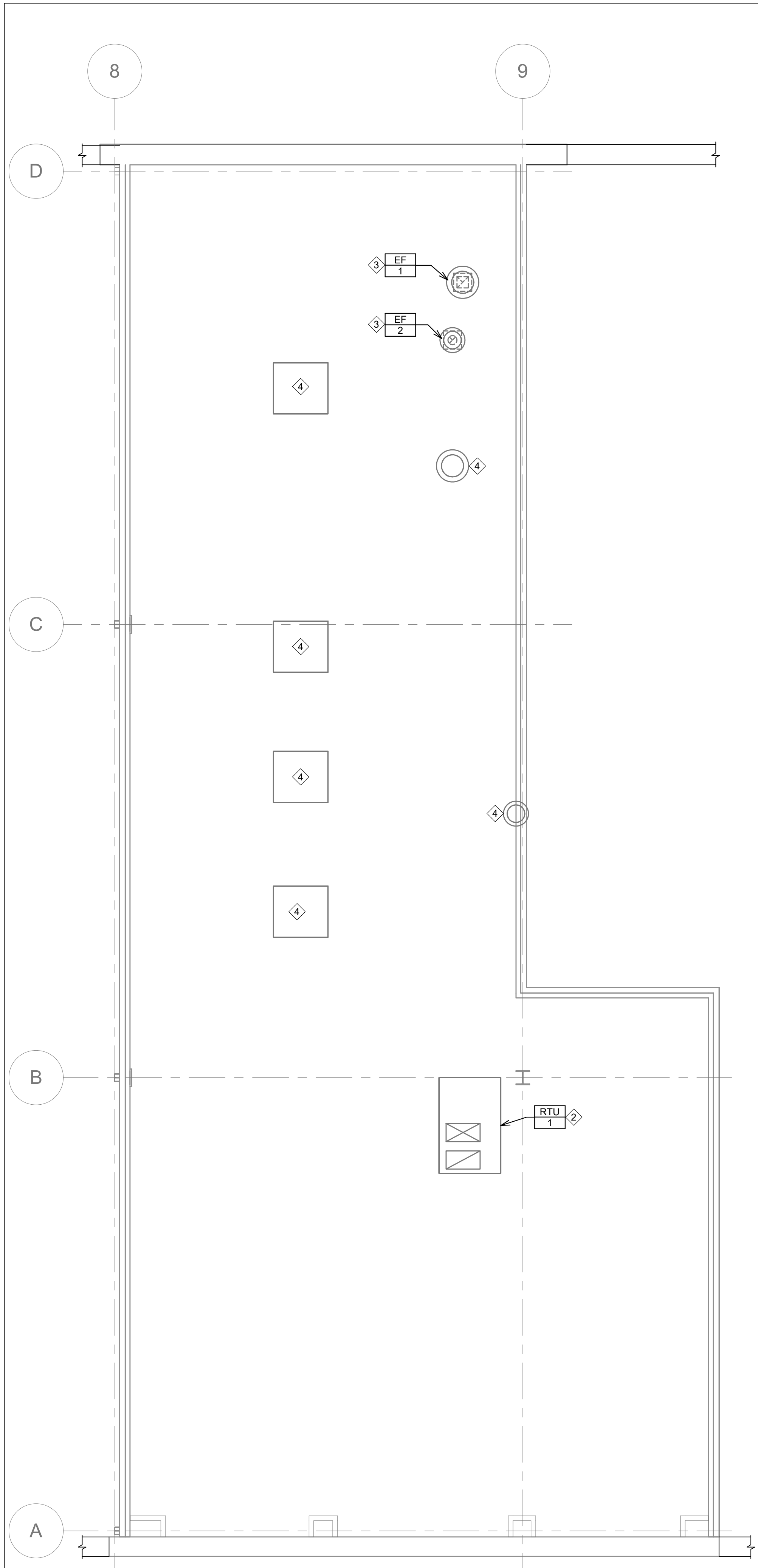
SITKA
 SITKA | EASTON GATEWAY
 OH
 4173 WORTH AVE. COLUMBUS, OH 43219

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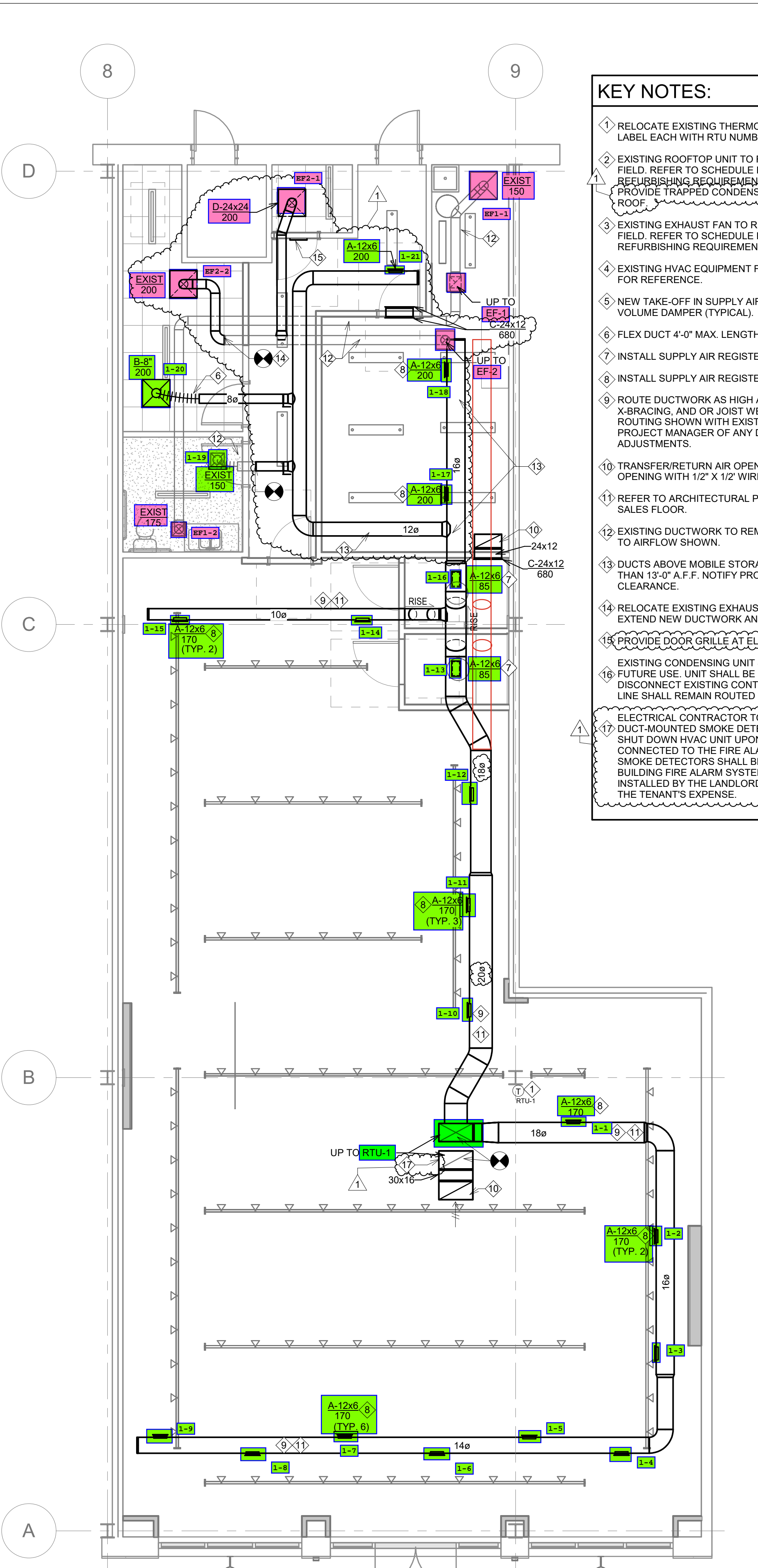
Revisions	Date
LL COMMENTS	10/01/2024

Date	September 16, 2024
Sheet Name	HVAC PLAN

M1.2



② HVAC ROOF PLAN
 3/16" = 1'-0"



① HVAC PLAN
 3/16" = 1'-0"

KEY NOTES:

- ① RELOCATE EXISTING THERMOSTAT TO LOCATION INDICATED. LABEL EACH WITH RTU NUMBER AND AREA SERVED.
- ② EXISTING ROOFTOP UNIT TO REMAIN. VERIFY EXACT LOCATION IN FIELD. REFER TO SCHEDULE FOR AIR BALANCE AND REFRUBISHING REQUIREMENTS (PER LANDLORD REQUIREMENTS). PROVIDE TRAPPED CONDENSATE DRAIN TO SPLASHBLOCK ON ROOF.
- ③ EXISTING EXHAUST FAN TO REMAIN. VERIFY EXACT LOCATION IN FIELD. REFER TO SCHEDULE FOR AIR BALANCE AND REFRUBISHING REQUIREMENTS.
- ④ EXISTING HVAC EQUIPMENT FOR NEIGHBORING TENANT. SHOWN FOR REFERENCE.
- ⑤ NEW TAKE-OFF IN SUPPLY AIR DUCTWORK. PROVIDE MANUAL VOLUME DAMPER (TYPICAL).
- ⑥ FLEX DUCT 4'-0" MAX. LENGTH (TYPICAL).
- ⑦ INSTALL SUPPLY AIR REGISTER ON BOTTOM OF DUCT PER 1M2.0
- ⑧ INSTALL SUPPLY AIR REGISTER AT A 45° ANGLE PER 2M2.0
- ⑨ ROUTE DUCTWORK AS HIGH AS POSSIBLE. UP BETWEEN JOISTS, X-BRACING, AND OR JOIST WEBS WHERE FEASIBLE. VERIFY ROUTING SHOWN WITH EXISTING FIELD CONDITIONS AND NOTIFY PROJECT MANAGER OF ANY DISCREPANCIES OR NECESSARY ADJUSTMENTS.
- ⑩ TRANSFER/RETURN AIR OPENING ON TOP OF DUCT. COVER OPENING WITH 1/2" X 1/2" WIRE MESH.
- ⑪ REFER TO ARCHITECTURAL PLANS FOR DUCT PAINTING/FINISH IN SALES FLOOR.
- ⑫ EXISTING DUCTWORK TO REMAIN. BALANCE GRILLES/DIFFUSERS TO AIRFLOW SHOWN.
- ⑬ DUCTS ABOVE MOBILE STORAGE SYSTEM SHALL BE NO LOWER THAN 13'-0" A.F.F. NOTIFY PROJECT MANAGER IF UNABLE TO MEET CLEARANCE.
- ⑭ RELOCATE EXISTING EXHAUST GRILLE TO LOCATION SHOWN. EXTEND NEW DUCTWORK AND CONNECT TO EXISTING.
- ⑮ PROVIDE DOOR GRILLE AT ELECTRICAL ROOM DOOR.
- ⑯ EXISTING CONDENSING UNIT SHALL REMAIN FOR POTENTIAL FUTURE USE. UNIT SHALL BE DE-ENERGIZED COMPLETELY. DISCONNECT EXISTING CONTROLS. EXISTING CONDENSATE DRAIN LINE SHALL REMAIN ROUTED TO MOP SINK.
- ⑰ ELECTRICAL CONTRACTOR TO CONFIRM OPERATION OF EXISTING DUCT-MOUNTED SMOKE DETECTOR. SMOKE DETECTOR SHALL SHUT DOWN HVAC UNIT UPON DETECTION OF SMOKE AND BE CONNECTED TO THE FIRE ALARM SYSTEM. DUCT MOUNTED SMOKE DETECTORS SHALL BE MONITORED BY THE BASE BUILDING FIRE ALARM SYSTEM AND SHALL BE FURNISHED AND INSTALLED BY THE LANDLORD'S FIRE ALARM CONTRACTOR, AT THE TENANT'S EXPENSE.

GENERAL NOTES:

- A. INSTALL VOLUME DAMPER IN DUCT TAKE-OFF TO EACH DIFFUSER, GRILLE, AND REGISTER.
- B. ALL DUCTWORK SHALL BE SHEET METAL. FLEX DUCT MAY ONLY BE USED IN RUNS OF 5'-0" OR LESS.
- C. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. PROVIDE TURNING VANES IN ALL 90 DEG ELBOWS IN RECTANGULAR SUPPLY AND RETURN DUCTWORK. CONTRACTOR MAY, AT HIS OPTION, REPLACE RECTANGULAR DUCTWORK SHOWN WITH ROUND, SPIRAL DUCT OF EQUIVALENT CAPACITY.
- D. IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN SUSPENDED CEILING SPACES AND IN shafts PROVIDED UNLESS NOTED OR INDICATED OTHERWISE.
- E. VERIFY ALL DUCT CONNECTION SIZES TO FANS, COILS, AND EXISTING DUCTWORK.
- F. COOPERATE WITH THE OTHER TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, STRUCTURAL, ELECTRICAL, WORK, ETC.
- G. DIFFUSER, REGISTER, AND SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURE LOCATIONS AND SHALL BE IN ACCORDANCE WITH CEILING PATTERNS AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
- H. ALL SQUARE DIFFUSERS SHALL HAVE THE AIR VOLUME EQUALLY IN FOUR DIRECTIONS UNLESS INDICATED OTHERWISE.
- I. MECHANICAL CONTRACTOR TO VERIFY RATINGS OF ALL WALLS WITH ARCHITECTURAL DRAWINGS. SEAL PIPE PENETRATIONS TO MATCH THE WALL RATINGS. PROVIDE ALL SUPPLY AND RETURN DUCTS PASSING THROUGH FIRE RATED WALLS WITH APPROVED FIRE DAMPERS.
- J. RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSERS NECK SIZE.
- K. TENANT'S CONTRACTORS SHALL VERIFY WITH HVAC PLAN TO COORDINATE THE REQUIREMENT OF PLENUM RATED FIXTURES, PIPING, WIRING, ETC. FAILURE TO DO SO COULD RESULT IN THE REMOVAL AND REPLACEMENT OF THESE ITEMS AT NO ADDITIONAL COST TO THE TENANT - NO PVC PIPING ALLOWED IN PLENUM.
- L. CONTRACTOR SHALL STENCIL TENANT NAME AND SPACE NUMBER ON UNIT.
- M. THE TENANT'S MECHANICAL CONTRACTOR SHALL GO TO THE SITE AND VERIFY THE SIZE, DESIGN, SUPPORT AND LOCATION FOR ALL EXISTING AND FUTURE MECHANICAL EQUIPMENT AND UTILITY TAPS PRIOR TO ANY EQUIPMENT ORDERING, WORK, DUCTWORK FABRICATION ETC. NOTIFY THE TENANT'S PROJECT MANAGER OR PROJECT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES. FAILURE TO DO SO COULD RESULT IN EQUIPMENT AND/OR MATERIALS REPLACEMENT AT NO ADDITIONAL EXPENSE TO THE TENANT.
- N. PRIOR TO BID, THE CONTRACTOR SHALL REVIEW THE MECHANICAL, ELECTRICAL AND KITCHEN EQUIPMENT DRAWINGS. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL RELEVANT WORK IN THE ENTIRE SET OF DOCUMENTS AND REPORT ALL DISCREPANCIES BETWEEN THESE DRAWINGS TO THE ENGINEER PRIOR TO BIDDING FOR CLARIFICATION. IF DISCREPANCIES REMAIN UNRESOLVED DUE TO A SHORT TIME FRAME, THE CONTRACTOR SHALL INCLUDE THE MOST WORK AND THE HIGHER COSTS IN THE BID. SOLUTIONS TO UNREPORTED DISCREPANCIES WILL BE DETERMINED BY THE ARCHITECT/ENGINEER, WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.
- O. ALL EQUIPMENT, INSTALLATIONS, AND MATERIAL SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES AND LANDLORD CRITERIA.
- P. REMOVE ALL UNUSED PIPING, DUCTWORK, AND ACCESSORIES - DO NOT ABANDON.
- Q. CONTRACTOR IS REQUIRED TO CONTACT THE BUILDING LANDLORD FOR ANY ROOF WORK. IF LANDLORD REQUIRES A SPECIFIC ROOFING CONTRACTOR (IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT) COORDINATE AND PAY FOR ANY AND ALL ROOFING WORK WITH THE BUILDING OWNER'S ROOFING CONTRACTOR.
- R. AT CONCLUSION OF PROJECT, HVAC SYSTEM MUST BE TESTED AND BALANCED BY A LICENSED CONTRACTOR. COPY OF BALANCE REPORT MUST BE PROVIDED TO OWNER PRIOR TO TURN-OVER.

LANDLORD GENERAL NOTES:

1. PROVIDE CLEAR ACCESS TO ALL EQUIPMENT AND VALVES.
2. ALL WORK RELATED TO THE ROOF FLASHING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE TENANT, BUT SHALL BE PERFORMED BY THE LANDLORD'S APPROVED ROOFING CONTRACTOR. PROVIDE STRUCTURAL REINFORCEMENT AS REQUIRED FOR THE INSTALLATION OF ALL EQUIPMENT.
3. AIR BALANCE WORK SHALL BE THE RESPONSIBILITY AND AT THE EXPENSE OF THE TENANT, BUT SHALL BE PERFORMED BY LANDLORD'S APPROVED AIR BALANCE CONTRACTOR. CONTACT IS SPEER MECHANICAL, TREY SHOBER, 614-261-5138.
4. CONTROLS SHALL BE THE RESPONSIBILITY AND AT THE EXPENSE OF THE TENANT, BUT SHALL BE PERFORMED BY LANDLORD'S APPROVED CONTROLS CONTRACTOR. CONTACT IS SPEER MECHANICAL, TREY SHOBER, 614-261-5138.
5. TENANT MECHANICAL CONTRACTOR IS RESPONSIBLE TO VERIFY PRIOR TO DEMOLITION OF ANY DUCTWORK, PIPE, ETC. THAT IT WILL NOT IMPACT ADJACENT TENANTS. TENANT IS RESPONSIBLE FOR ANY REQUIRED REPAIRS TO ADJACENT TENANT SERVICES. ALL UNUSED EQUIPMENT SHALL BE REMOVED FROM THE ROOF UPON COMPLETION OF WORK.
6. ROOFTOP EQUIPMENT IS TO BE LABELED IN 2" BLACK, CASION BOLD, VINYL LETTERS FACING THE ROOF LADDER WITH TENANT NAME AND SPACE NUMBER/STREET NUMBER.

National TAB

Project: SITKA (COLUMBUS, OH)

System/Unit: AHU/RTU



Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	211410485I
Model Num	NA	TSC120H4RNA25F04
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37"X15"
Num PreFilter 1	-	4
PreFilter Size 1	-	20"X25"X2"

Test Data		
	Design	Actual
SF CFM	3500	3504
SF RPM	-	NA
RA CFM	2690	2681
OA CFM	810	823
RL Voltage	-	492.9/490.5/494.4
RL Amperage	-	1.47/1.46/1.39
OA Damper Position	-	5.13 VDC
Brake Horse Power	-	0.28

Motor Data		
	Design	Actual
Horsepower	-	2.75
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	3.6

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.53"
Fan Suction SP	-	-0.82"
Fan Discharge SP	-	0.11"
Total ESP	-	0.64"
Fan Total SP	-	0.93"

Completed By: Jordan Best on 01/02/2025

National TAB

Project: SITKA (COLUMBUS, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU1-SGRD1	Sales	A	12X6	346	274	174	50.3
RTU1-SGRD2	Sales	A	12X6	283	263	163	57.6
RTU1-SGRD3	Sales	A	12X6	293	272	172	58.7
RTU1-SGRD4	Sales	A	12X6	170	280	180	105.9
RTU1-SGRD5	Sales	A	12X6	170	277	177	104.1
RTU1-SGRD6	Sales	A	12X6	170	198	180	105.9
RTU1-SGRD7	Sales	A	12X6	170	153	176	103.5
RTU1-SGRD8	Sales	A	12X6	170	143	171	100.6
RTU1-SGRD9	Sales	A	12X6	170	123	168	98.8
RTU1-SGRD10	Sales	A	12X6	170	258	158	92.9
RTU1-SGRD11	Sales	A	12X6	170	262	162	95.3
RTU1-SGRD12	Sales	A	12X6	170	198	165	97.1
RTU1-SGRD13	Dressing Room	A	12X6	85	145	92	108.2
RTU1-SGRD14	Sales	A	12X6	170	153	171	100.6
RTU1-SGRD15	Sales	A	12X6	170	142	163	95.9
RTU1-SGRD16	Dressing Room	A	12X6	85	163	96	112.9
RTU1-SGRD17	Storage	A	12X6	200	327	293	146.5
RTU1-SGRD18	Storage	A	12X6	200	336	287	143.5
RTU1-SGRD19	Restroom	EX	EX	150	27	75	50.0
RTU1-SGRD20	Office	B	8	200	52	98	49.0
RTU1-SGRD21	Hall	A	12X6	200	237	183	91.5
Total				3912	4283	3504	89.57%

Completed By: Jordan Best on 01/02/2025

National TAB

Project: SITKA (COLUMBUS, OH)

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	90ACEH 90C15DH
Serial Num	-	240S163398
Type	PRV	PRV

Test Data		
	Design	Actual
CFM	325	338
RL Voltage	-	122.2
RL Amperage	-	1.21
Total ESP	-	0.37"

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	EX	0.125
Motor Rpm	-	1600
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.7
Service Factor	-	NA

Completed By: Jordan Best on 12/30/2024

National TAB

Project: SITKA (COLUMBUS, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF1-EGRD1	Restroom	EX	EX	175	1	187	183	183	104.6
EF1-EGRD2	Storage	EX	EX	150	1	309	155	155	103.3
Total				325		496	338	338	104%

Completed By: Jordan Best on 12/30/2024

National TAB

Project: SITKA (COLUMBUS, OH)

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	90ACEH 90C15DH
Serial Num	-	240S163398
Type	PRV	PRV

Test Data		
	Design	Actual
CFM	400	488
RL Voltage	-	123.4
RL Amperage	-	1.23
Total ESP	-	0.22"

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	EX	0.125
Motor Rpm	-	1550
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.7

Completed By: Jordan Best on 12/30/2024

Notes:

- . Unit above design, and not equipped with a speed controller
- . Ductwork not equipped with balancing dampers

Written By: Jordan Best on 12/30/2024

National TAB
 Project: SITKA (COLUMBUS, OH)
FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF2-EGRD1	Office	D	24X24	200	1	235	235	235	117.5
EF2-EGRD2	Electrical	EX	EX	200	1	253	253	253	126.5
Total				400		488	488	488	122%

Completed By: Jordan Best on 12/30/2024