



20240610 – BL000B – MULTI-BUILDING – BL107, BL405 – Replace Humidifiers
Addendum 2

November 4, 2025

General Notifications

Modifications described herein shall be incorporated into the project documents. All other work described in the project documents shall remain unchanged.

Acknowledge receipt of this Addendum by noting it on the Bid Form. Failure to do so may subject bidder to disqualification. This Addendum is a part of the contract documents.

Pre-Bid Meeting Minutes

The attached meeting minutes are a summary of the three pre-bid meetings held on the project.

Pre-Bid Sign-In Sheet. Attendance at a minimum of one of the pre-bid meetings is required for prime bidders.

Bidding Questions and Answers

The below questions have been submitted either electronically or asked during the pre-bid walkthrough.

Question 1: The existing AHU at the BL405 Research service building appears to be 100% outside air unit. Can you please confirm if it is?

Answer 1: It is a 100% OA unit, with LAR spaces we can not recirculate any air

Question 2: In the mechanical room 193, it shows a location for the new steam unit heater, but I believe that is the same location as the existing water heater. With all the demo, I thought the opposite corner might be a better location. Please advise.

Answer 2: Revise the location of the unit heater as shown in the revised drawing.

Question 3: The documents do not specify a condensate trap on that unit heater, nor does it specify what type of trap for the heating coil on the AHU. Are there certain specs that I need to hit on these traps.

Answer 3: The drawings reference Detail 8/M501 which shows a steam trap. Specification Section 232213, Article 3.05, Paragraph E.1 addresses the type of trap.

Question 4: On sheet M201, detail 1, note 9; it says connect to LPS main downstream of LPS PRV. Please confirm that the PRV is an existing PRV.

Answer 4: The PRV is existing.



Question 5: During the pre-bid walkthrough, the general trades contractor observed that existing ceilings and MEP systems will need to be removed to provide access to the structure in order to complete the required structural reinforcement. Please confirm whether the areas affected by this work may be vacated during construction activities, and whether the associated MEP systems can be taken offline and removed for the scheduled duration of the project.

Answer 5: The building will be vacated during the month of March, 2026 for the purpose of allowing significantly disruptive work to be completed. The HVAC systems serving these areas can be shut down to facilitate performing the work, however the contractor will be responsible for maintaining temporary heating/cooling conditions required by the front end specification sections. There are no special conditions above and beyond the front end specified conditions to be maintained as part of the temporary heating and cooling requirements. The statement that MEP systems will need to be removed is the opinion of the contractor asking the question. If the contractor's means and methods of performing the work are to include removal and re-installation of select system components to perform the work, it will be acceptable to perform the work in this manner provided that the cost of this work is included in the Contractor's bid price. Note that all existing above ceiling ductwork, piping, and electrical items are not shown on the drawings.

Question 6: Are the existing masonry walls in BL405 Research Services bearing walls?

Answer 6: Yes.

Question 7: Will existing equipment in BL405 Research Services be moved out of the way by the owner.

Answer 7: Mobile items will be moved by the owner. The existing sterilizer in room 113 will not be moved.

Question 8: Is there any Post Warranty Alternation warranty documentation needed for roof work?

Answer 8: The roofing system is a Firestone Fully Adhered (FA) 0.60 EPDM – 20 yr. (near the end of its EPDM membrane life). No PWA documentation is required.

Changes to the Drawings

Modify the attached drawings below as indicated in the clouded areas.

1. Sheet S201 – Partial Roof Framing Plan
2. Sheet M101 – Research Service Building – First Floor and Roof Mechanical Demolition Plans
3. Sheet M201 – BL405 – Research Service Building – First Floor and Roof Mechanical Plans

Attachments

1. Pre-Bid Meeting Minutes
2. Pre-Bid Sign-In Sheet.
3. Sheet S201 – Partial Roof Framing Plan
4. Sheet M101 – Research Service Building – First Floor and Roof Mechanical Demolition Plans
5. Sheet M201 – BL405 – Research Service Building – First Floor and Roof Mechanical Plans



End of ADDENDUM 2



Meeting Date(s) 10-21-2025, 10-28-2025
Minutes Issued: 11/4/2025 – Addendum 2

Prebid Meeting – Minutes

BL000B – Multi-Building – BL107, BL405 - Replace Humidifiers
Indiana University Bloomington
IU 20240610

1. Introductions

A. Owner:

1. IU Board of Trustees.

B. Capital Projects

1. Darby Simpson, IU Team Lead.
2. Ryan McComas, IU Mechanical
3. Karl Parker, IU Electrical
4. Matt Harms, IU Construction Administrator

C. Consultant – ATP Engineering

1. Doug Bradley – Mechanical (dbradley@atp-eng.com)
2. Dave Shuck – Electrical (dshuck@atp-eng.com)
3. Structural – CE Solutions (jdtaylor@cesolutionsinc.com)

2. Project Description

A. The project consists of work in two different buildings in two separate phases.

1. Phase 1 – BL 405 Research Services Building.
 - a. Replace existing air handling unit RTU-2 with new unit. Provide steel reinforcement, roof work, general construction removal and re-installation of ceilings, mechanical, electrical and plumbing work as shown in the documents to support the work. The new air handling unit is a steam heat/hydronic cooling unit with a new direct injection campus steam humidifier located within the unit. Remove existing steam to steam humidification generator. Work is anticipated to be performed between March 1, 2026 and May 1, 2026.
2. Phase 2 – BL107 Biology Building
 - a. In mechanical room 502, replace the existing duct mounted humidifier with a new direct injection campus steam humidifier as shown on the drawings. Remove existing steam to steam humidification generator. Work is anticipated to be performed between June 1, 2026 and July 1, 2026.
3. Pre-demolition Test and Balance – Perform the pre-demolition test and balance required prior to ordering the Air Handling Unit.

3. Project Schedule



- A. Project completion date shall be no later than July 1, 2026.
- 4. Project Website:
 - A. Indiana University will utilize E-builder for document management.
 - B. Contractors must have appropriate hardware/software to create and read PDF documents.
- 5. Protocol for Questions:
 - A. Questions shall be submitted in writing via e-mail to Consultant, dbradley@atp-eng.com. The last day for questions is noon on November 3, 2025.
- 6. Bids will be accepted at or before 2:00 P.M. Eastern Time on November 11, 2025
 - A. Submit bids electronically via www.iuplanroom.com. Refer to notice to bidders.
 - B. Public Bid opening; Bids read aloud. Refer to notice to bidders for virtual bid opening information.
 - C. Late Bids will be returned unopened.
- 7. Documents are available from Eastern Engineering. Contact Eastern for deposit and purchase information.
- 8. Bid Document Requirements
 - A. A completed Minority, Women's and Veteran's Business Enterprise Participation Plan.
 - B. A bid security of 5% of the total bid.
 - C. Contractor's written drug testing program, which must be in full compliance with IC 4-13-18.
- 9. Insurance and Bonds
 - A. Refer to specification front end.
- 10. Alternates
 - A. Alternate No. 1 (Mandatory) – Air Handling Unit Manufacturer. Submittal is required with the bid.
 - B. Alternate No. 2 – Work in the Biology Building
 - C. Alternate No. 3 – Equipment demolition Work in Research Services Exterior Mechanical Room
- 11. Parking
 - A. There will be limited on-site parking. Contractor parking is in the Green lot.
- 12. Concurrent Projects
 - A. None.
- 13. Dumpster Location
 - A. BL405 – Research Service Building – A dumpster location adjacent to the building on the site will be finalized during construction. Contractor shall include a dumpster located accordingly in the bid price.
 - B. BL107 – Biology Building – A dumpster will not be allowed. Trash will need to be trucked out on a daily basis.
- 14. Tours of the buildings were given to the contractors to review building conditions.



10-21-2025

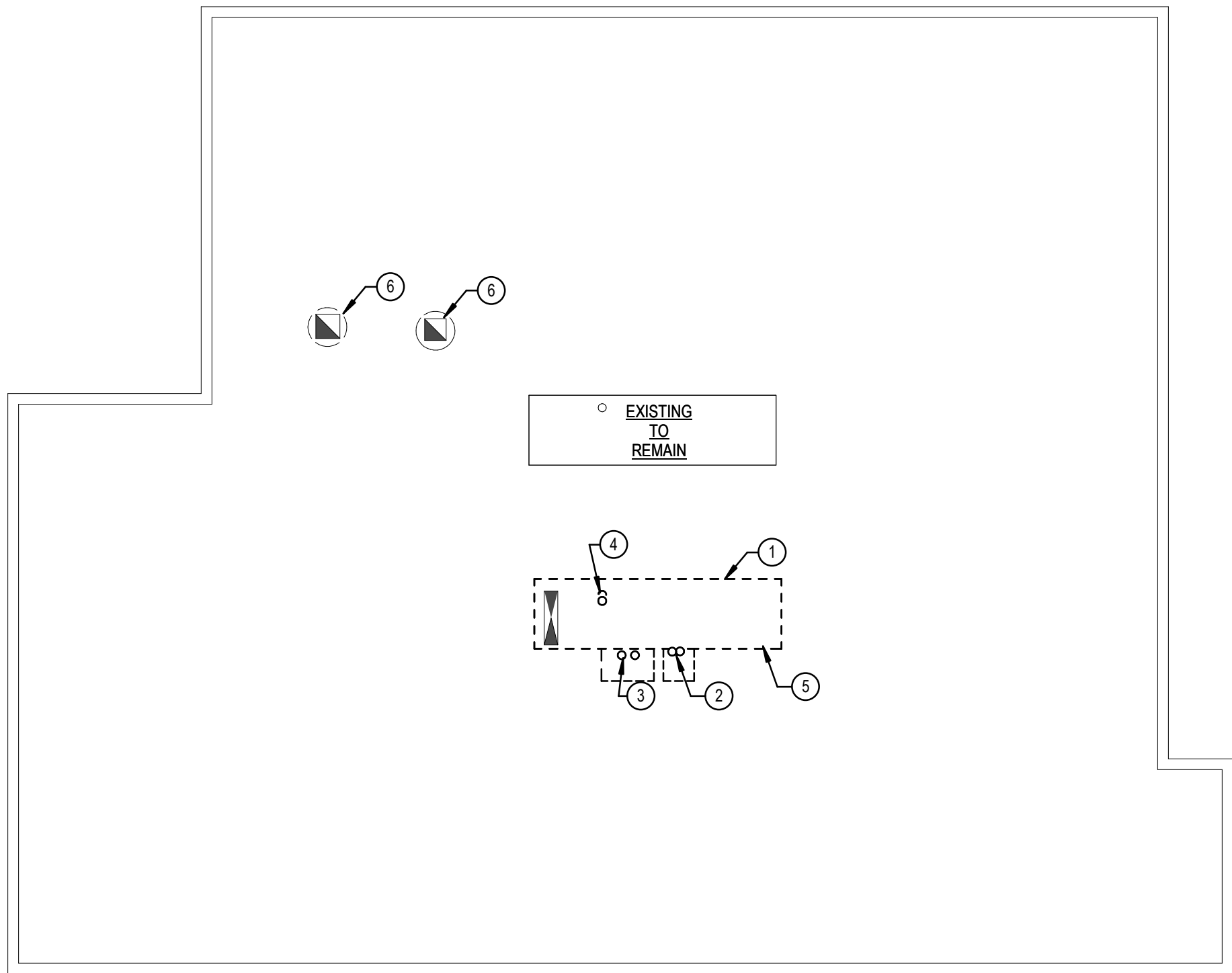
Prebid Meeting – Sign-In Sheet

BL000B – Multi-Building – Replace Humidifiers
Indiana University Bloomington
IU 20240610

Company	Name	Phone Number	Email
SR MECHANICAL	JAREN BUTLER	812 675 9803	JBUTLER@SRMECHANICALLLC.COM
Prime design and build	Ahmed Alkironi	812 272 5253	PPrime.conc@aol.com @gmail.com
HEFLIN INDUSTRIES	DAVID DuPIERRE	812 825 1600	delepuerreheflinind.com
Irish	Tom Hall	317 306 1357	THall@IRISHMechanicalServices.com
Commercial Service	Tyler Dogdes	812-339-9114	tdogdes@CommercialService.com
HFI	COLIN HINDMAN	812-339-2879	chindman@harrell-fish.com
BOLDIN CONSTRUCTION GROUP	BRAD BERING	812-327-4022	bberinga@boldinconstruction.com
BOLDIN	Chance Bex	812-322-5841	cbex@boldinconstruction.com

ROOM #	DESIGNATION
109	ANIMAL QUARTERS
194	MECHANICAL
199b	CORRIDOR
108a	ANIMAL QUARTERS
108b	ANIMAL QUARTERS
108	ANIMAL QUARTERS CORRIDOR
107	ANIMAL QUARTERS
108c	ANIMAL QUARTERS
106	ANIMAL QUARTERS
113	CAGE WASH
105	OFFICE
199c	CORRIDOR
112	OFFICE
111	OFFICE
110	OFFICE

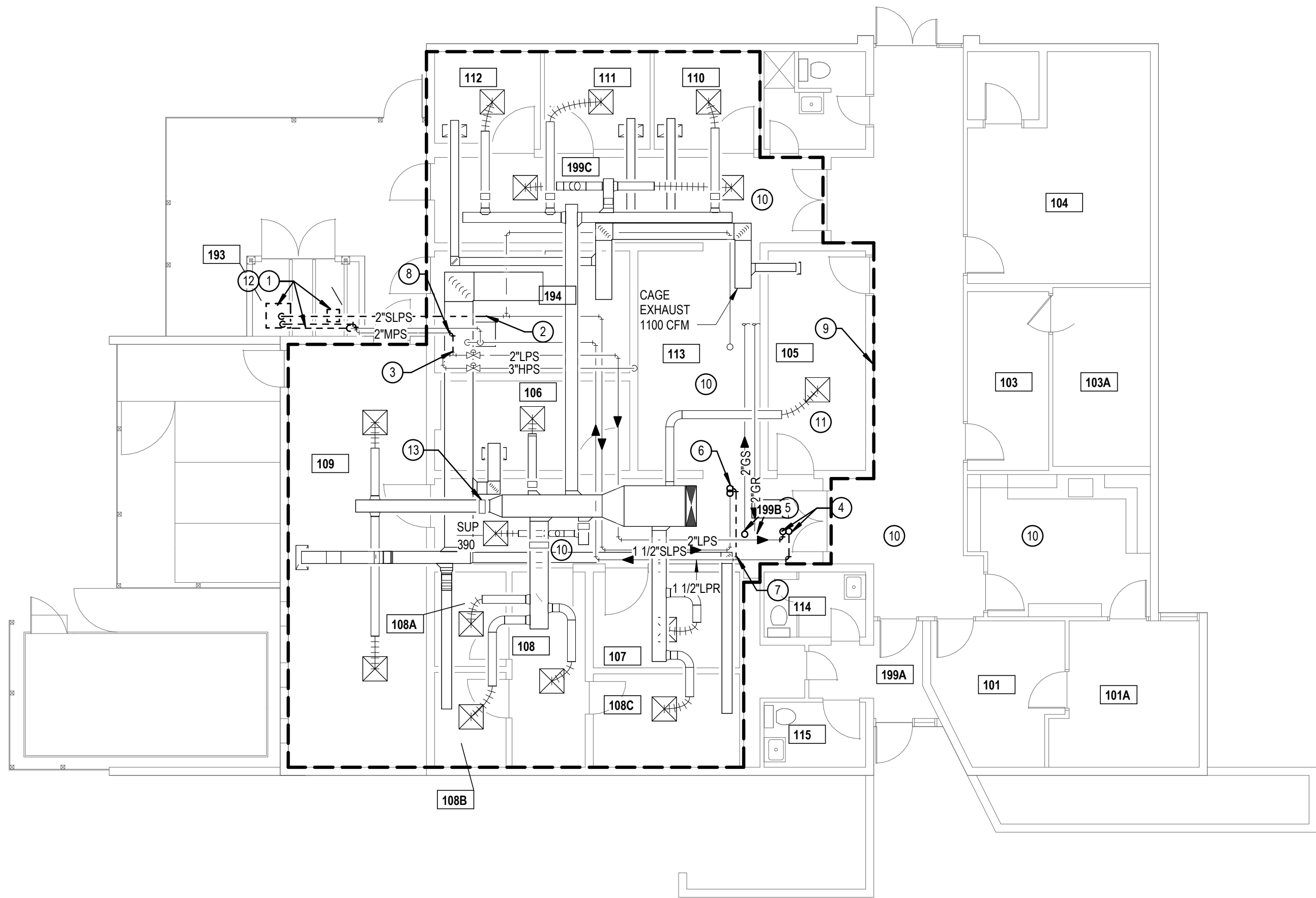
2 BL405 - RESEARCH SERVICE BUILDING - ROOF MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"



DEMOLITION NOTES: ○

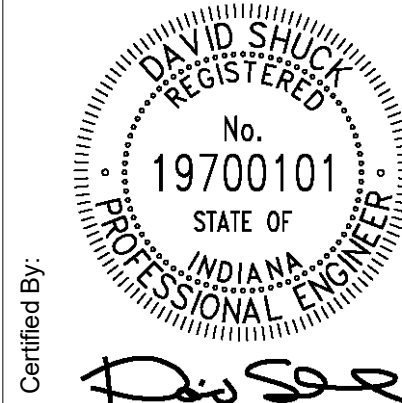
- REMOVE EXISTING ROOFTOP AIR HANDLING UNIT RTU-2 AND ROOF CURB.
- REMOVE EXISTING LPS AND LPR FROM UNIT HEATING COIL DOWN THROUGH THE ROOF.
- REMOVE EXISTING GS AND GR FROM UNIT COOLING COIL DOWN THROUGH THE ROOF.
- REMOVE EXISTING SLPS AND LPR FROM UNIT HUMIDIFIER DOWN THROUGH THE ROOF.
- PERFORM PRE-DEMOLITION TESTING ON THE EXISTING AIR HANDLING UNIT TO DETERMINE TOTAL AIRFLOW, CHILLED WATER FLOW RATE AND PRESSURE DROP THROUGH THE COIL PRIOR TO DEMOLITION OF THE UNIT. INDEX UNIT TO FULL COOLING WITH CONTROL VALVE OPEN TO COIL.
- EXISTING EXHAUST FAN SHALL REMAIN.

1 BL405 - RESEARCH SERVICE BUILDING - FIRST FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"



DEMOLITION NOTES: ○

- AS PART OF ALTERNATE #3, REMOVE EXISTING CLEAN STEAM GENERATOR, SLPS, MPS, MPR, CLEAN STEAM CONDENSATE RECEIVER/COOLER, RELIEF PIPING, AND ALL STEAM COMPONENTS RELATED TO THE CLEAN STEAM SYSTEM IN THIS ROOM. REMOVE RELIEF PIPING THROUGH THE ROOF AND PATCH THE ROOF. EXISTING DOMESTIC WATER BACKFLOW PREVENTER SHALL REMAIN FOR CONNECTION TO NEW CONDENSATE COOLER.
- REMOVE EXISTING SLPS PIPING TO THIS POINT AND PREPARE FOR CONNECTION TO NEW.
- CAP MPS PIPING AT MAIN.
- REMOVE EXISTING LPS AND LPR UP TO RTU-2 HEATING COIL. PREPARE PIPE FOR CONNECTION TO NEW.
- REMOVE EXISTING GS AND GR UP TO RTU-2 COOLING COIL. PREPARE PIPE FOR CONNECTION TO NEW.
- REMOVE EXISTING SLPS AND LPR UP TO RTU-2 HUMIDIFIER.
- CAP EXISTING LPR PIPING FROM HUMIDIFIER AT MAIN.
- REMOVE EXISTING MPS PIPING TO THIS POINT AND PREPARE FOR CONNECTION TO NEW LPS PIPING.
- OUTLINE SHOWS THE AREAS SERVED BY RTU-2. PERFORM PRE-DEMOLITION TEST AND BALANCE TO MEASURE SUPPLY AIRFLOW, EXHAUST AIRFLOW, AND SPACE PRESSURIZATION OF THE SPACES SERVED BY RTU-2.
- REMOVE AND RE-INSTALL CEILINGS IN THIS ROOM AS REQUIRED TO PERFORM THE WORK SHOWN, INCLUDING BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL AND STRUCTURAL WORK. REFER TO ALL MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS.
- CUT AND PATCH GYP. BOARD CEILING IN THIS ROOM TO PERFORM THE WORK SHOWN, INCLUDING BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL AND STRUCTURAL WORK. REFER TO ALL MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS.
- REMOVAL OF THE CEILING IS NECESSARY TO PERFORM THE WORK. CONTRACTOR MAY INSTALL NEW SUSPENDED ACOUSTICAL CEILING IN LIEU OF REPLACING THE CEILING WITH A LIKE TYPE GYPSUM BOARD CEILING.
- AS PART OF BASE BID, REMOVE 2\"/>
- EXISTING ZONE REHEAT COIL SHALL REMAIN, TYP.



Certified By:

David Shuck

Revisions		Number	Date	Description
1	11/4/2025	1	11/4/2025	Addendum 2

Drawn By: BJB	Checked By: DAB	Project Status: 100% CD SET	Date: 10.09.2025
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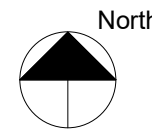
Title: BL405 - RESEARCH SERVICE BUILDING - FIRST FLOOR
AND ROOF MECHANICAL DEMOLITION PLANS

Project: 20240610 - BL000B - MULTI-BUILDING REPLACE
HUMIDIFIERS
INDIANA UNIVERSITY
2001 EAST DISCOVERY PARKWAY
BLOOMINGTON, IN 47408

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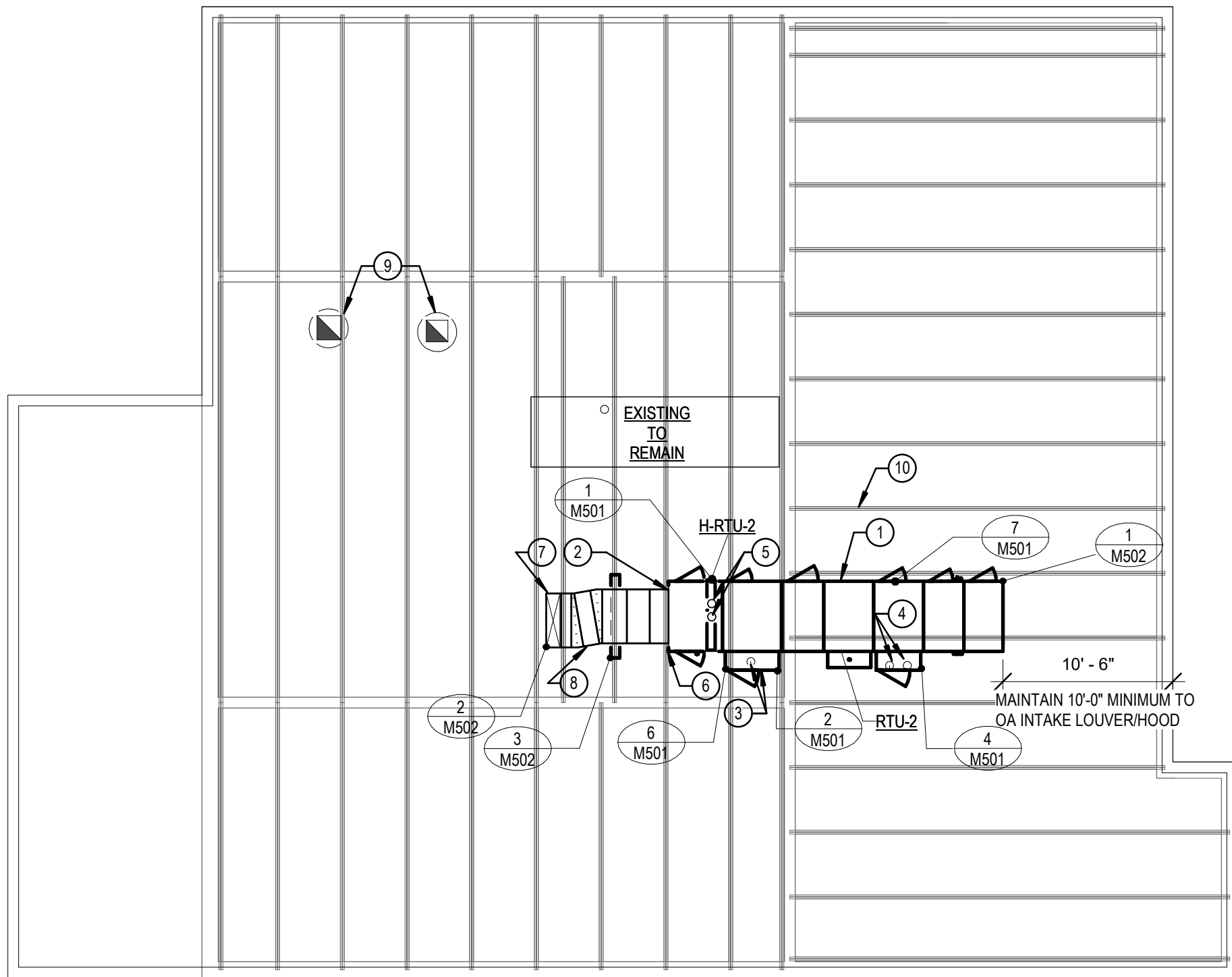
Drawing Number:

M101



ROOM #	DESIGNATION
109	ANIMAL QUARTERS
194	MECHANICAL
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108b	ANIMAL QUARTERS
108	ANIMAL QUARTERS CORRIDOR
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105	OFFICE
199c	CORRIDOR
112	OFFICE
111	OFFICE
110	OFFICE

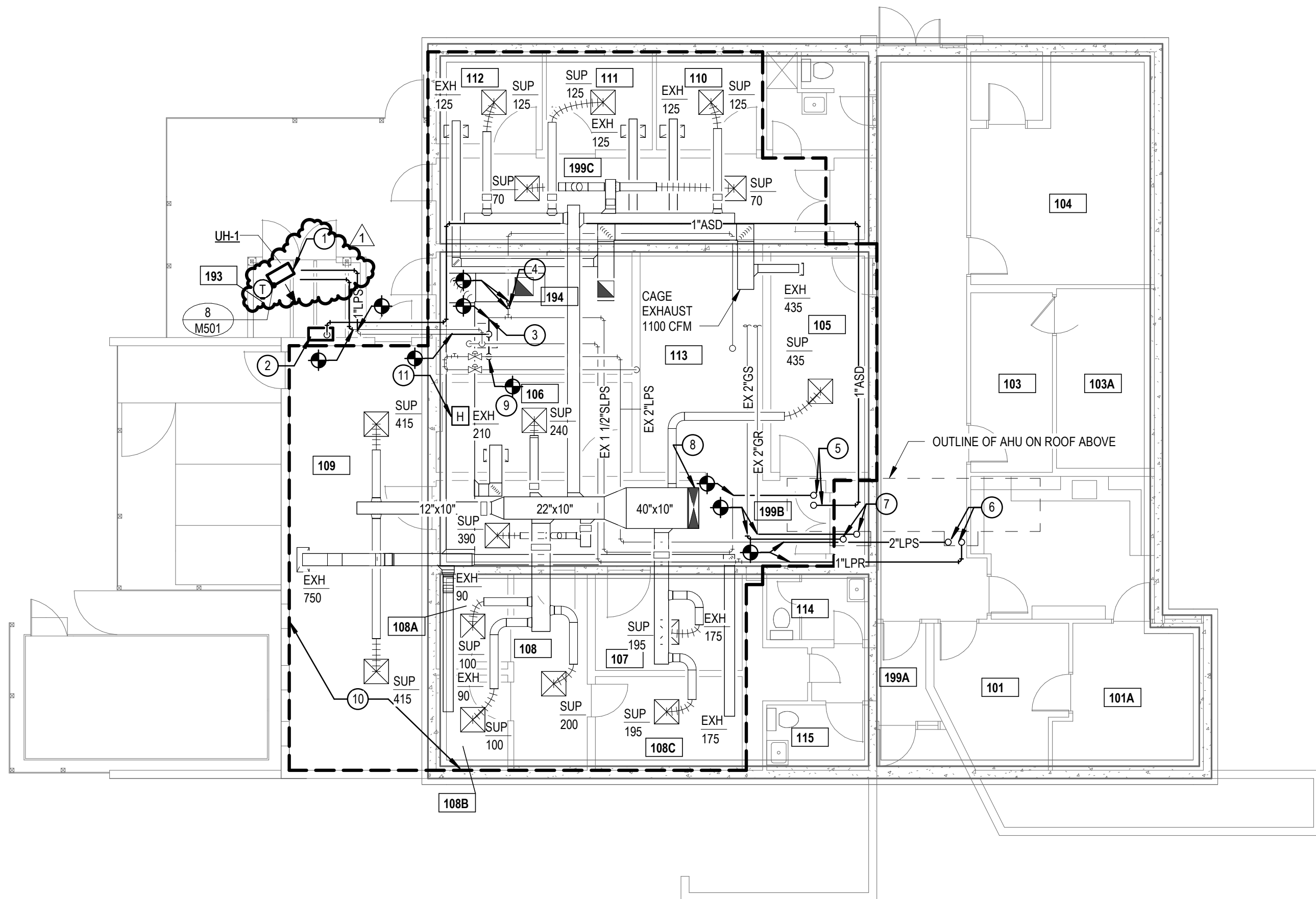
2 BL405 - RESEARCH SERVICE BUILDING - ROOF MECHANICAL PLAN
1/8" = 1'-0"



PLAN NOTES: ○

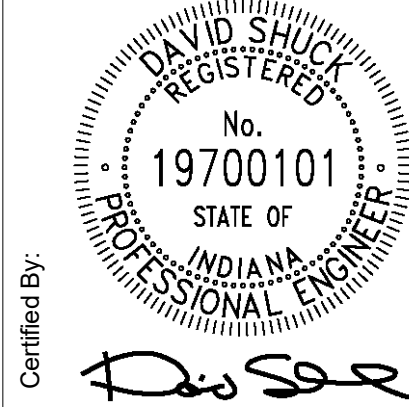
- ROOFTOP AIR HANDLING UNIT ON 18" ROOF CURB.
- CONNECT EXISTING SUPPLY DUCT TO UNIT SUPPLY DUCT CONNECTION. TRANSITION AS REQUIRED.
- 2" GS AND GR CHILLED WATER PIPING DOWN.
- 2" LPS AND 1" LPR DOWN. LOCATE STEAM TRAPS IN THE CEILING BELOW.
- 1" SLPS AND 3/4" ASD SERVING HUMIDIFIER DOWN. SLPS LINE IS THE FORMER SECONDARY STEAM CONNECTED TO LPS AS PART OF THE NEW CONSTRUCTION. SEE FIRST FLOOR PLAN.
- ALIGN THE EDGE OF THE UNIT WITH THIS EXISTING JOIST. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- CONNECT NEW DUCTWORK THROUGH THE ROOF TO EXISTING DUCTWORK IN THE FLOOR BELOW.
- DUCTWORK ON THE ROOF SHALL BE TYPE 304 STAINLESS STEEL.
- EXISTING EXHAUST FAN SHALL REMAIN.
- THE EXISTING STRUCTURAL STEEL BELOW THE ROOF DECK IS SHOWN FOR REFERENCE. REFER TO STRUCTURAL PLANS FOR REINFORCING REQUIREMENTS.

1 BL405 - RESEARCH SERVICE BUILDING - FIRST FLOOR MECHANICAL PLAN
1/8" = 1'-0"



PLAN NOTES: ○

- PROVIDE UNIT HEATER BOTTOM +/- 8'-0" AFF. FIELD VERIFY EXACT LOCATION.
- CONDENSATE COOLER PROVIDE WITH HUMIDIFIER. CONNECT DOMESTIC WATER FROM THE EXISTING BACKFLOW PREVENTER IN THIS ROOM TO THE CONDENSATE COOLER. PIPE DRAIN TO FLOOR DRAIN.
- CONNECT 2" LPS TO FORMER 2" SLPS IN MECHANICAL ROOM.
- PROVIDE NEW SHUTOFF VALVE IN FORMER SLPS PIPE BRANCH TO RTU-1 HUMIDIFIER AND CLOSE VALVE.
- 1-1/4" LPS (FORMER SLPS) AND 1" ASD UP TO HUMIDIFIER IN RTU-2.
- 2" LPS AND 1" LPR UP TO STEAM HEATING COIL IN RTU-2. LOCATE STEAM TRAPS AND CONTROL VALVE ABOVE THE CEILING.
- 2" GS AND 2" GR UP TO RTU-2 CHILLED WATER COIL. LOCATE SPECIALTIES IN THE RTU-2 SERVICE VESTIBULE. LOCATE CONTROL VALVE ABOVE THE CEILING.
- EXISTING 40X10 SUPPLY DUCT UP. CONNECT TO NEW DUCT FROM ROOF. VERIFY EXISTING SIZE AND TRANSITION AS REQUIRED.
- CONNECT 1-1/2" LPS TO EXISTING LPS MAIN DOWNSTREAM OF LPS PRV IN MECHANICAL ROOM.
- ROOMS WITHIN THE OUTLINE ARE SPACES SERVED BY RTU-2. INCLUDE SCOPE TO MEASURE AND ADJUST AIRFLOWS IN EACH ZONE. CFM VALUES INDICATED ARE DESIGN CFM. DO NOT PROCEED WITH FINAL BALANCE UNTIL THE ENGINEER REVIEWS THE PRE-DEMO TAB REPORT FOR COMPARISON TO THESE ANTICIPATED VALUES.
- PROVIDE EXHAUST AIR HUMIDITY SENSOR IN THIS LOCATION.



Certified By:

David Shuck

Revisions		Number		Date		Description	
1		11/4/2025		11/4/2025		Addendum 2	

Drawn By:	Checked By:	Project Status:	Date:
BJB	DAB	100% CD SET	10.09.2025

Title: BL405 - RESEARCH SERVICE BUILDING - FIRST FLOOR AND ROOF MECHANICAL PLANS

Project: 20240610 - BL000B - MULTI-BUILDING REPLACE HUMIDIFIERS
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BLOOMINGTON, IN 47408

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Drawing Number:

M201

