

Department of Public Works

Engineering Division

Robert F. Phillips, P.E., City Engineer

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April 24, 2017

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Principal Engineer 2

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Principal Engineer 1

Christina M. Bachmann, P.E. Eric L. Dundee, P.E.

John S. Fahrney, P.E. Facilities & Sustainability

Facilities & Sustainability Jeanne E. Hoffman, Manager

> Operations Manager Kathleen M. Cryan

Mapping Section Manager

Eric T. Pederson, P.S.

Financial Manager

Steven B. Danner-Rivers

NOTICE OF ADDENDUM ADDENDUM NO. 5

CONTRACT NO. 7939 MADISON MUNICIPAL BUILDING - RENOVATION

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on the Bid Express web site at:

http://www.bidexpress.com

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.

Sincerely,

Robert F. Phillips, P.E., City Engineer

Cc: Mike Dailey

NOTICE OF ADDENDUM ADDENDUM NO. 5

CONTRACT NO. 7939 MADISON MUNICIPAL BUILDING - RENOVATION

This addendum is issued to modify, explain or correct the original Drawings, Specifications, or Contract Documents and is hereby made a part of the contract documents.

This addendum consists of the following documents:

1. GENERAL CONTRACT CONDITIONS

This section is not used.

2. GENERAL QUESTIONS/REQUESTS AND ANSWERS

See attached architect/engineer documents addressing a question(s) regarding missing mechanical ductwork sizing; as well as 09 30 00 Staining & Varnish Specification scope in Room 260.

3. ACCEPTABLE EQUIVALENTS

This section is not used.

4. SPECIFICATIONS

See attached additional information from architect/engineer consultant.

5. **DRAWINGS**

See attached additional information from architect/engineer consultant.

6. **PROPOSAL**

This section not used.

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on Bid Express at https://www.bidexpress.com/

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751.

For questions regarding this bid, contact:

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Engineering Division – Facilities Management
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ADDENDUM NO. 005

MSR

Architecture Interiors and Urban Design

Date: 4/24/2017

Project Name: Madison Municipal Building Refurbishment

Project No: 2014057.00

Project Phase: Bid

Project Location: Madison, WI

Issue Date: 4/24/2017 Bid Date: 3/24/2017

To: Plan Holders From: MSR Design

701 South 2nd Street, 8th Floor Minneapolis, MN USA 55401-2294

T 612 375 0336 F 612 342 2216

Introduction

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated 3/24/2017. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification. Reference made below to Specifications and Drawings shall be used as a guide only. When Specification Sections or Drawings are issued, changes made in Specification or on Drawings will take precedence over narrative explanation below. Contractor shall determine for themselves the work affected by Addendum items. It is assumed that specification sections and drawings are not attached unless specifically indicated as *Attached*.

Attachments

Specification Sections: 09 93 00 Detail Drawings: None

Drawings: M100; M101; M102; M103; M104; M105; M410; M411; M412; M420; M421.

Special Attachments: I. MEP Addendum 005 Narrative

If attachments are not as stipulated above, please notify MSR Design promptly.

Changes to Project Manual

Modifications to Specifications

1. 09 93 00 Stains and Varnishes: revised section 1.2 and 3.3

Changes to Drawings

- 1. M100. See attached MEP Addendum 5 Narrative
- 2. MIOI. See attached MEP Addendum 5 Narrative
- 3. M102. See attached MEP Addendum 5 Narrative
- 4. M103. See attached MEP Addendum 5 Narrative
- 5. MIO4. See attached MEP Addendum 5 Narrative
- 6. M I 05. See attached MEP Addendum 5 Narrative
- 7. M410. See attached MEP Addendum 5 Narrative
- 8. M411. See attached MEP Addendum 5 Narrative



- 9. M412. See attached MEP Addendum 5 Narrative
- 10. M420. See attached MEP Addendum 5 Narrative
- 11. M421. See attached MEP Addendum 5 Narrative Substitution requests.
 - I. None

Clarifications.

I. None.

End of Addendum 005



ADDENDUM No. 5

Client: MSR

Project Name: Madison Municipal Building Project Location: Madison, Wisconsin

Issue Date: April 24, 2017

Owner: City of Madison

Engineer: MEP Associates, LLC

MEP Project No. M10.15.02

To: Prospective Bidders.

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated March 24, 2017, with amendments and additions noted below.

Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may disqualify Bidder.

CHANGES TO BIDDING REQUIREMENTS

None.

CHANGES TO CONTRACT REQUIREMENTS

None.

CHANGES TO THE SPECIFICATIONS

None.

CHANGES TO THE DRAWINGS

➤M100: sheet re-issued.

Duct sizes, not shown on issue set, shown on plan.

➤M101: sheet re-issued.

Duct sizes, not shown on issue set, shown on plan.

➤M102: sheet re-issued.

Duct sizes, not shown on issue set, shown on plan.

➤M103: sheet re-issued.

Duct sizes, not shown on issue set, shown on plan.

➤M104: sheet re-issued.

Duct sizes, not shown on issue set, shown on plan.

- ➤M105: sheet re-issued.
 - o Duct sizes, not shown on issue set, shown on plan.
- ➤M410: sheet re-issued.
 - o Duct sizes, not shown on issue set, shown on plan.
- ➤M411: sheet re-issued.
 - o Duct sizes, not shown on issue set, shown on plan.
- ➤M412: sheet re-issued.
 - o Duct sizes, not shown on issue set, shown on plan.
- ➤ M420: sheet re-issued.
 - Duct sizes, not shown on issue set, shown on plan.
- ➤M421: sheet re-issued.
 - o Duct sizes, not shown on issue set, shown on plan.

Revisions have been made to the following drawings and are issued in the form of full-size plans. Edits are indicated by a revision delta and a cloud surrounding the affected portion of the drawing.

END OF ADDENDUM

SECTION 09 93 00 STAINS AND VARNISHES

PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
- 1.2 SCOPE OF WORK
- 1.3 DEFINITIONS
- 1.4 SUBMITTALS
- 1.5 QUALITY ASSURANCE
- 1.6 DELIVERY, STORAGE, AND HANDLING
- 1.7 PROTECTION
- 1.8 JOB CONDITIONS
- PART 2 PRODUCTS
 - 2.1 MATERIALS AND MANUFACTURERS
- PART 3 EXECUTION
 - 3.1 EXAMINATION
 - 3.2 PREPARATION
 - 3.3 STRIPPING
 - 3.4 STAINING AND VARNISHING
 - 3.5 APPLICATION
 - 3.6 FIELD QUALITY CONTROL
 - 3.7 CLEANING
 - 3.8 PROTECTION
 - 3.9 SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Applicable provisions of Division 1 govern work of this Section.

1.2 SCOPE OF WORK

- A. Work of this Section includes on-site surface preparation, stripping, wood staining and finishing of new and existing finished wood items and surfaces. The terms "Varnish," "Transparent Finish" and "Shellac" are used interchangeably in this specification section and imply the same finish material, per the products listings. Components and surfaces to be finished include the following:
 - Room 260: Strip down to original, unfinished wood surface per 3.2 and 3.3 below, and refinish all existing wood; doors, casing, wainscot, paneling, *window trim*, beam support moldings, base and shoe per finishing sections below.
 - 2 Room 260: Finish all new wood to match refinished, existing wood per the finishing sections below.
 - 3 Second Floor Corridor 263 and existing, historic wall bases at Level 2 and 3: Prepare per 3.2 and 3.3 below and finish all existing wood; doors, transoms, casings, wainscot.
 - 4 All Historic doors and frames, architraves, wood wall bases (either left in place or relocated): Prepare per 3.2 and 3.3 below and finish per finishing sections below.
 - 5 All new wood and wood handrails: Finish per finishing sections below.

B. Related Work.

- 1. Section 06 03 12 Historic Wood Repair
- 2. Section 08 21 10 Wood Door Rehabilitation.
- 3. Section 09 90 23 Interior Painting.

1.3 DEFINITIONS

A. Stain and Transparent Finish includes coating systems materials, primers, emulsions, stains,

- sealers and fillers, and other applied materials whether used as prime, intermediate, or finish transparent coats on finished wood.
- B. Refinishing is defined as all the process(es) necessary to restore woodwork. Stripping is defined as the process of removing existing coatings from woodwork without damage to the wood. Finishing is defined as the process of applying stain and protective coating and all related preparatory and follow-up tasks.

1.4 SUBMITTALS

- A. Product Data: Manufacturer's technical information, label analysis, and application instructions for each material proposed for use.
 - List each material and cross-reference the specific coating and finish system and application. Identify each material by the manufacturer's catalog number and general classification. Indicate VOC content.
- B. Samples for initial and final color selection in the form of manufacturer's color charts.
- C. Mock-ups and Samples: Refer to Section 01 43 39. Prepare samples of staining and shellac finish, on new and existing woods, and stripping on existing wood for review and approval by Architect. Include one existing door, and a minimum of four 10' long lengths of wood trim of each type as selected by the Architect. Duplicate finishes of Owner samples.
 - 1. Sample submission must include example of blending new and existing woods and stain and light and dark areas of wood to produce even, matched colors and tones.
- D. Mock-up Room 260: Refer to Section 01 43 39. Provide full-finish example in mock-up Room 260, 4 feet wide by height of wainscot, until required sheen, color and texture are achieved and approved by Architect.
 - Apply stain and varnish on sample surfaces in accordance with the schedule or as specified. After finishes are accepted, the mock-up suite will be used as a basis for evaluation of stain and varnish during other finished work.
- E. All samples shall be produced by contractor's staff proposed to work on the project.
- F. Samples of stripping, cleaning, bleaching and staining materials with manufacturer product data for each.

1.5 QUALITY ASSURANCE

- A. Provide stain and finish produced by the same manufacturers stated in the Products section.
- B. Coordination of Work: Review other applicable sections in which primers are provided to ensure compatibility of the total systems for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
 - 1. Notify the Architect of problems anticipated using the materials specified.
- C. Material Quality: Provide the manufacturer's best quality stain and varnish material of the various coating types specified. Material containers not displaying manufacturer's product identification will not be acceptable.
 - The objectives of wood refinishing and cleaning are to give wood surfaces a smooth, uniform appearance consistent with the original design intent, and to preserve the inherent patina. Splotches, streaks, runs, or any other kind of spotty appearance shall not be accepted. Too aggressive cleaning or sanding shall not be accepted.
 - 2. Sample areas shall be prepared which shall form a standard for wood refinishing.
 - 3. Products that comply with qualitative requirements of applicable Federal Specifications, yet differ in quantitative requirements, may be considered for use when acceptable to the Architect. Furnish material data and manufacturer's certificate of performance to

Architect for proposed substitutions.

D. Contractor Qualifications: Contractor performing work of this Section shall have no less than ten documented years of experience providing highest quality staining and varnishing work including blending of colors and touching-up or restoring ornamental wood on at least three similar sized and quality projects. Contractor's key staff on project shall each have a minimum of three years of experience in this trade including experience on at least two of three documented similar projects. Key staff shall be of sufficient number to accomplish required work within required project schedule.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the job site in the manufacturer's original, unopened packages and containers bearing manufacturer's name and label and the following information:
 - 1. Product name or title of material.
 - 2. Product description (generic classification or binder type).
 - 3. Federal Specification number, if applicable.
 - 4. Manufacturer's stock number and date of manufacture.
 - 5. Contents by volume, for pigment and vehicle constituents.
 - 6. Thinning instructions.
 - 7. Application instructions.
 - 8. Color name and number.
- B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45°F. Maintain containers used in storage in a clean condition, free of foreign materials and residue.
- C. Do not store materials throughout building, but in designated area. Store flammable materials in metal safety containers.
- D. Provide appropriate type and size fire extinguishers in place of storage.
- E. Protect materials from freezing. Keep storage area neat and orderly. Remove application rags and waste from building daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing, and application.

1.7 PROTECTION

- A. Cover materials and surfaces, including floors, adjoining work in progress with clean drop cloths or canvas.
- B. Remove hardware, accessories, plates, lighting fixtures and similar items or otherwise mask item for protection from staining and varnishing materials. Stain color and clear finishes will continue under any hardware or plates that are in place.
- C. The contractor shall be responsible to provide the proper respiratory equipment, as necessary, for workers doing the staining and varnishing.
- The contractor shall take reasonable precautions to contain materials and odors to areas of work.

1.8 JOB CONDITIONS

- A. All staining and varnishing work shall be provided on site after installation of wood products requiring work of this Section except for backpriming.
- B. Apply stain and varnish only when the temperature of surfaces to be finished and surrounding

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MSR, LTD 24 APRIL 2017

air temperatures are between 50°F and 90°F.

- C. Do not apply stain or varnish when the relative humidity exceeds 85 percent, at temperatures less than 5°F above the dew point, or to damp or wet surfaces.
- Contractor shall be responsible for providing adequate heat and humidity control in work space.

PART 2 - PRODUCTS

2.1 MATERIALS AND MANUFACTURERS

- A. Manufacturers: Refer to subsections below.
- B. Stripper:
 - 1. Strippers: Nonvolatile, nonsolvent, low odor type product using products such as organic esters. Solvent-based; methylene chloride type strippers are not allowed.
 - 2. Back to Nature Multi-Strip or equal as approved by Architect.
 - Rinse shall be mineral spirits or other materials as recommended by the stripper manufacturer.
- C. Bleach: Not permitted.
- D. Stain [CCT-1].
 - 1. Existing Oak Wood: Old Masters Wiping Stain, Natural Walnut 12804.
 - Stain mix for woods receiving varnish shall be adjusted to compensate for color of varnish and submitted to Architect for approval.
- E. Varnish [CCT-2]:
 - Type I Varnish: Graham Aqua Borne Ceramic-Cermithane Satin tinted to match Amber Shellac.
 - 4. Type II Varnish, Second Coat & Finish Coat: Graham Aqua Borne Ceramithane Catin finish.
- F. Filler/Sealer: As required.
- G. Accessory Materials:
 - 1. Solvent as recommended by Pratt and Lambert.
 - Tack Cloths.
 - Wood glue.
 - 4. Sandpaper: Maximum grit shall be "00".

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions under which staining and varnishing will be performed for compliance with requirements for application of materials. Do not begin application until unsatisfactory conditions have been corrected. Start of finishing will be construed as the Applicator's acceptance of surfaces and conditions within a particular area.

3.2 PREPARATION

- A. General Procedures: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items in place that are not to be finished or provide surface-applied protection prior to beginning work. Remove these items if necessary for complete finishing of the wood items. Following completion of staining and varnishing operations in each space or area, have items reinstalled by workers skilled in the trades involved.
- B. Surface Preparation of Wood: Clean and prepare surfaces to be finished in accordance with the manufacturer's instructions for each particular substrate condition and as specified.
 - Clean surfaces of dirt, oil, and other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sand surfaces exposed to view smooth and dust off.
 - Back prime wood trim and casing receiving clear finishes prior to installation with spar varnish compatible with materials and finishes listed in the Products section of this specification. Include edges, ends and backsides of wood trim.
 - 3. Seal tops, bottoms, and cutouts of wood doors with a heavy coat of varnish or sealer compatible with surface finishes prior to installation or hardware installation.
- C. Coordinate to have wood doors which are planned to be removed from existing openings, per the drawings, to have tops, bottoms and edges finished.

3.3 STRIPPING

- A. Room 260 only, excluding Judge's Bench: Remove all existing finishes from wood deers, windows, handrails and easing doors, casing, wainscot, paneling, window trim, beam support moldings, base and shoe using specified remover and methods recommended by remover manufacturer.
- B. Wash wood surfaces with mineral spirits and allow to dry.
- C. <u>Historic wood outside Room 260, and Judge's Bench in Room 260:</u> Sand lightly with sandpaper and remove all dust with tackcloths.
- D. Fill minor holes, sand out scratches and gouges, and for doors as required by the Door Schedule.

3.4 STAINING AND VARNISHING

- A. Stain and varnish wood after installation
- B. New and reused wood shall be stained to match samples submitted by contractor and approved by Architect. Contractor shall carefully blend staining as required to match old and new wood, and compensate for color differences in heartwood and sapwood and inconsistencies in the color of the natural wood.
- C. Finish woodwork on edges, tops and bottoms in same manner as approved for faces.
- D. Stain all stripped wood where original stain is deteriorated or lost, and all new wood as follows:
 - Apply one or more coats of stain as necessary to match approved samples and mockups.
 - Seal stained wood.
- E. Varnish.
 - 1. Varnish shall not be thinned.
 - Do not apply in temperatures less than 70 degrees F.
 - 3. Apply evenly without runs, sags or brush marks.

3.5 APPLICATION

- A. Apply finishes in accordance with manufacturer's directions. Use brush applicators and techniques best suited for wood material and type of finish material being applied.
- B. Do not varnish over dirt, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable film.
 - 1. The number of coats and film thickness required is the same regardless of the application method.
 - Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer.
 - 3. Sand between applications where sanding is required to produce an even smooth surface in accordance with the manufacturer's directions and project requirements.
 - 4. Apply additional coats of final varnish until film is of uniform finish, and appearance. Give special attention to ensure that surfaces, including edges, corners, crevices, welds, and exposed fasteners, receive a dry film thickness equivalent to that of flat surfaces.
 - 5. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, covers for finned tube radiation, grilles, and similar components are in place. Extend coatings in these areas as required to maintain the system integrity and provide desired protection.
 - Finish surfaces behind movable equipment and furniture same as similar exposed surfaces.
 - 7. Allow sufficient time between successive coats to permit proper drying. Do not recoat until previous coat has dried to where it feels firm, and does not deform or feel sticky under moderate thumb pressure and where application of another coat of finish does not cause lifting or loss of adhesion of the undercoat.
- C. Completed Work: Match approved samples for color, texture, and coverage. Refinish unacceptable work.

3.6 FIELD QUALITY CONTROL

- A. The Owner reserves the right to invoke the following test procedure at any time and as often as the Owner deems necessary during the period when finishes are being applied:
 - 1. The Owner will engage the services of an independent testing laboratory to sample the finish materials being used. Samples of materials delivered to the project will be taken, identified, sealed, and certified in the presence of the Contractor.
 - 2. The testing laboratory will perform appropriate tests for the following characteristics as required by the Owner:
 - a. Quantitative materials analysis.
 - b. Abrasion resistance.
 - c. Apparent reflectivity.
 - d. Flexibility.
 - e. Washability.
 - f. Absorption.
 - g. Accelerated weathering.
 - h. Accelerated yellowness.
 - If test results show material being used does not comply with specified requirements, the Contractor may be directed to stop work, remove noncomplying finish materials from job, pay for testing, refinish surfaces that were coated with rejected finishes.

3.7 CLEANING

A. Cleanup: At the end of each work day, remove empty cans, rags, rubbish, and other discarded

paint materials from the site.

- B. Upon completion of finishing, clean glass and stain-spattered surfaces. Remove spattered stain by washing and scraping, using care not to scratch or damage adjacent finished surfaces.
- C. Touch up varnish and stain after all other trades have completed their work in preparation for final acceptance of work.

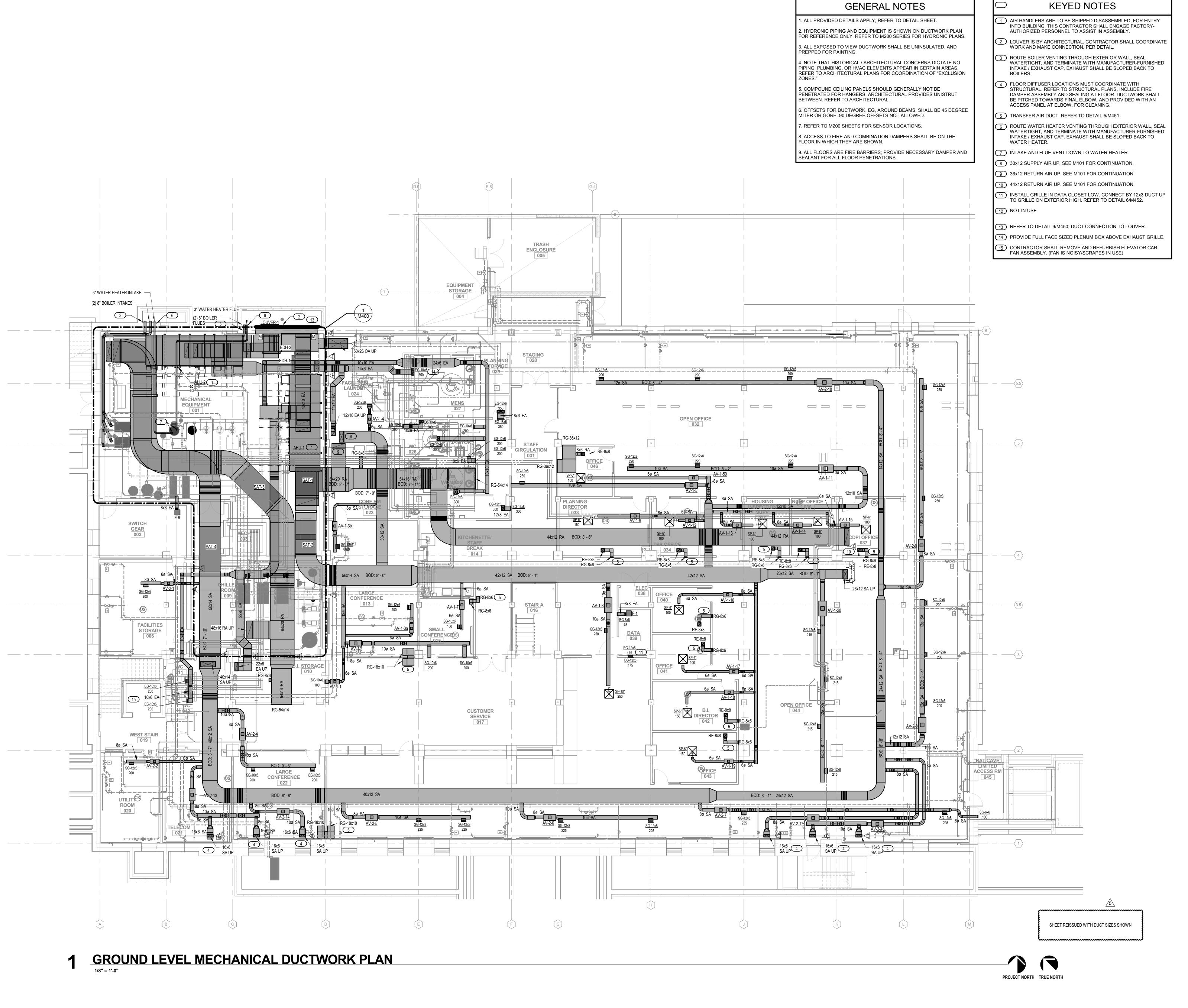
3.8 PROTECTION

- A. Protect work of other trades, whether to be painted or not, against damage by this section. Correct damage by cleaning, repairing or replacing, and repainting, as acceptable to Architect and Owner Project representative.
- B. Provide "wet varnish" signs to protect newly applied finishes. Remove temporary protective wrappings provided by other subcontractors as part of this contract for protection of their work after completion of finishing work.
- C. Touch up and restore damaged or defaced finished surfaces at completion of project construction activities of other trades and in compliance with final punch list by Architect.

3.9 SCHEDULE: REFER TO DRAWINGS FOR SPECIFIC AREAS OF SCOPE

- A. Historic wood doors:
 - 1. One or more coats of CCT-1 wood stain as necessary to match approved sample.
 - 2. One coat of CCT-2 Type I varnish.
 - 3. One coat of CCT-2 Type II varnish and one coat 50% gloss/50% satin.
- B. Historic wood wainscot and/or paneling, Room 260 ceiling beams and other exposed framing members, Room 260 window trim:
 - 1. One or more coats of CCT-1 wood stain as approved to match approved sample.
 - 2. One coat of CCT-2 Type I varnish.
 - 4. Two coats of CCT-2 Type II varnish.

END OF SECTION 09 93 00



MSR 710 South 2nd Street, 8th Floor Minneapolis, Minnesota 55401–2282

Architecture 612 375 0336 tel Interiors and 612 342 2216 fax

Civil Engineering and Landscape Architects

Ken Saiki Design, Inc

303 South Paterson St Madison, WI 53703 608.251.3600 tel Structural Engineering, Technology, AV

1800 Deming Way, Suite 200 Middleton, WI 53713 608.223.9600 tel

MEP Engineers

MEP Associates

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Lighting Designer

Gallina Design

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507.867.1628 tel

Preservation Architect
Charles Quagliana, AIA

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Mazomanie, WI 53560
608.449.9589 tel

Building Envelope Consultant
Insite Consulting Architects

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Summit Fire Consulting

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Fire & Code Sonsultant

Civil Engineers
VIERBICHER

612.374.3800 tel

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999 Fourier Drive, Suite 201
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Madison Municipal Building Renovation

47939 ng, Jr 3703

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

ENGINEER SEAL

Signature:

Print Names:

Date: _____ License No:_____

| ISSUE | | DESCRIPTION | | 24.03.2017 | BID SET | | 5 | 24.04.2017 | ADDENDUM #5 | | |

PROJECT NO.

2014057

PROJECT PHASE

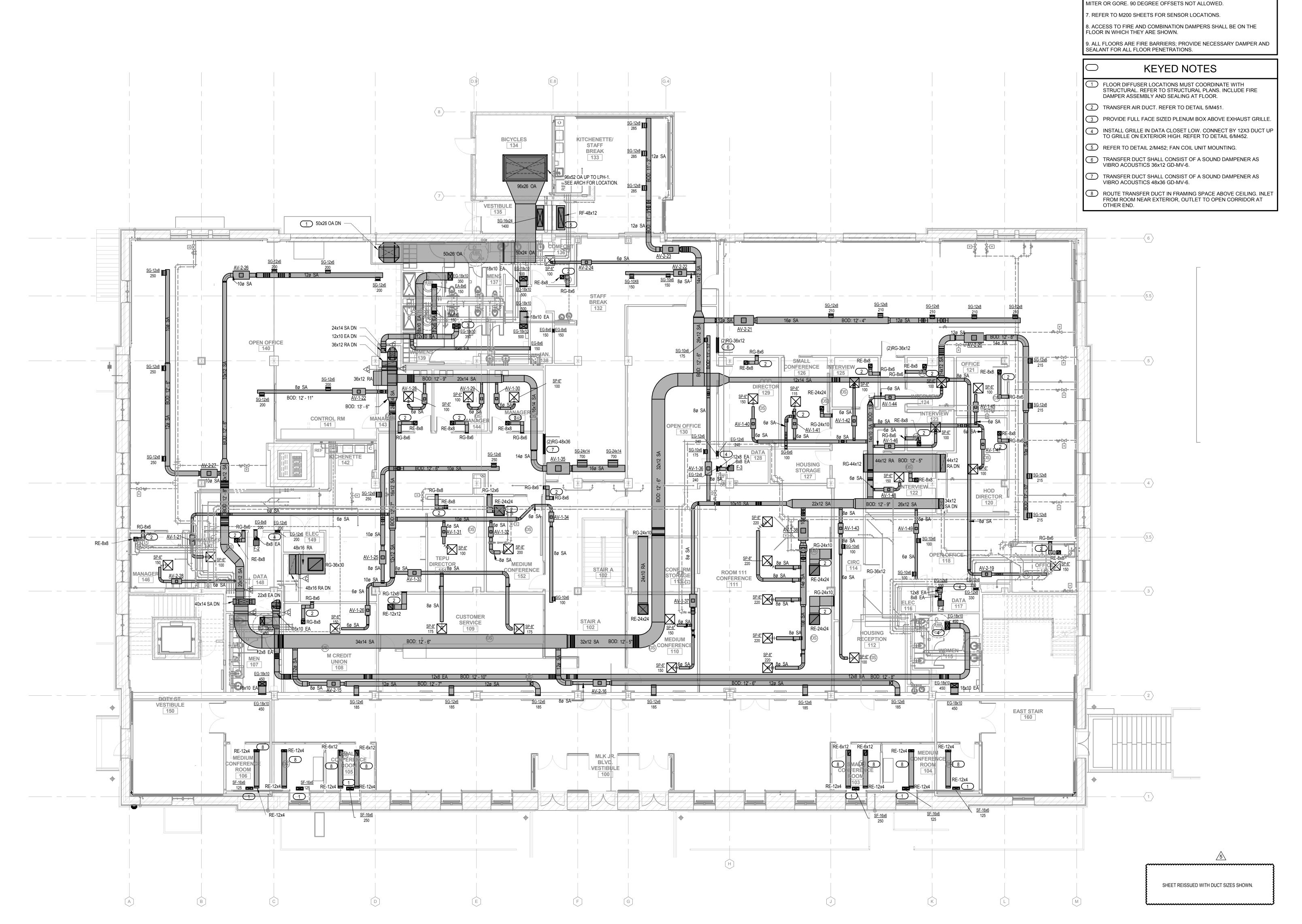
BID SET

DRAWN BY: CHECKED BY:
ALH/BTB/JTG RCA

Drawing 2016 Copyright Meyer, Scherer & Rockcastle, Ltd.

GROUND LEVEL MECHANICAL DUCTWORK PLAN

EXHIBIT I



DECLET NORTH TRUE NORTH

MSR 710 South 2nd Street, 8th Floor Minneapolis, Minnesota 55401–2282

Architecture 612 375 0336 tel
Interiors and 612 342 2216 fax
Urban Design www.msrdesign.com

GENERAL NOTES

2. HYDRONIC PIPING AND EQUIPMENT IS SHOWN ON DUCTWORK PLAN

FOR REFERENCE ONLY. REFER TO M200 SERIES FOR HYDRONIC PLANS.

3. ALL EXPOSED TO VIEW DUCTWORK SHALL BE UNINSULATED, AND

4. NOTE THAT HISTORICAL / ARCHITECTURAL CONCERNS DICTATE NO PIPING, PLUMBING, OR HVAC ELEMENTS APPEAR IN CERTAIN AREAS.

REFER TO ARCHITECTURAL PLANS FOR COORDINATION OF "EXCLUSION

PENETRATED FOR HANGERS. ARCHITECTURAL PROVIDES UNISTRUT

6. OFFSETS FOR DUCTWORK, EG, AROUND BEAMS, SHALL BE 45 DEGREE

1. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET.

5. COMPOUND CEILING PANELS SHOULD GENERALLY NOT BE

PREPPED FOR PAINTING.

BETWEEN. REFER TO ARCHITECTURAL.

Civil Engineering and Landscape Architects

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Gallina Design

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Acoustical Consultant

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651.251.1879 tel

4826 Chicago Avenue South, Suite 206 Minneapolis, MN 55417 612.374.3800 tel

Civil Engineers

VIERBICHER

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WI 53717

Madison, WI 53703

Madison, WI 53703

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

ENGINEER SEAL

Signature: _______ Print Names: ______ License No: ______

| ISSUE | MARK | DATE | DESCRIPTION | 24.03.2017 | BID SET | 5 | 24.04.2017 | ADDENDUM #5 |

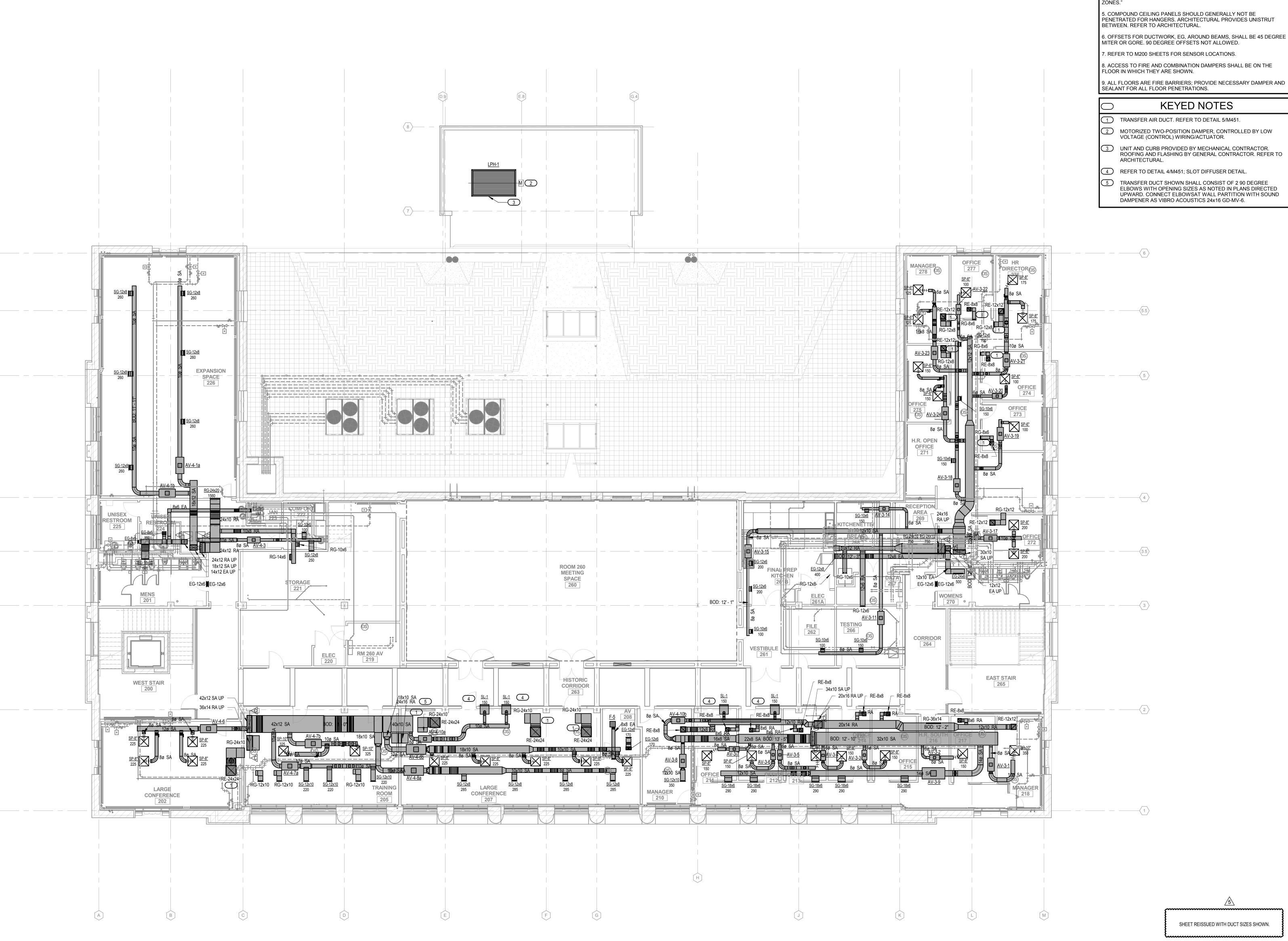
PROJECT NO. 2014057

DRAWN BY: CHECKED BY:
ALH/BTB/JTG RCA

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LEVEL ONE MECHANICAL DUCTWORK PLAN

EXHIBIT I **M101**



LEVEL 2 MECHANICAL DUCTWORK PLAN

GENERAL NOTES

1. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET. 2. HYDRONIC PIPING AND EQUIPMENT IS SHOWN ON DUCTWORK PLAN FOR REFERENCE ONLY. REFER TO M200 SERIES FOR HYDRONIC PLANS.

3. ALL EXPOSED TO VIEW DUCTWORK SHALL BE UNINSULATED, AND PREPPED FOR PAINTING.

4. NOTE THAT HISTORICAL / ARCHITECTURAL CONCERNS DICTATE NO PIPING, PLUMBING, OR HVAC ELEMENTS APPEAR IN CERTAIN AREAS.
REFER TO ARCHITECTURAL PLANS FOR COORDINATION OF "EXCLUSION

8. ACCESS TO FIRE AND COMBINATION DAMPERS SHALL BE ON THE

3 UNIT AND CURB PROVIDED BY MECHANICAL CONTRACTOR. ROOFING AND FLASHING BY GENERAL CONTRACTOR. REFER TO

ELBOWS WITH OPENING SIZES AS NOTED IN PLANS DIRECTED UPWARD. CONNECT ELBOWSAT WALL PARTITION WITH SOUND Gallina Design 30232 County 7 Chatfield, MN 55923 507.867.1628 tel

Preservation Architect Charles Quagliana, AIA 5641 Willoughby Rd Mazomanie, WI 53560 608.449.9589 tel

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Structural Engineering, Technology, AV

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MEP Associates

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303 South Paterson St Madison, WI 53703 608.251.3600 tel

KJWW

MEP Engineers

Lighting Designer

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Fire & Code Sonsultant Summit Fire Consulting

Acoustical Consultant

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Civil Engineers VIERBICHER 999 Fourier Drive, Suite 201

Madison Municipal Building Renovatior

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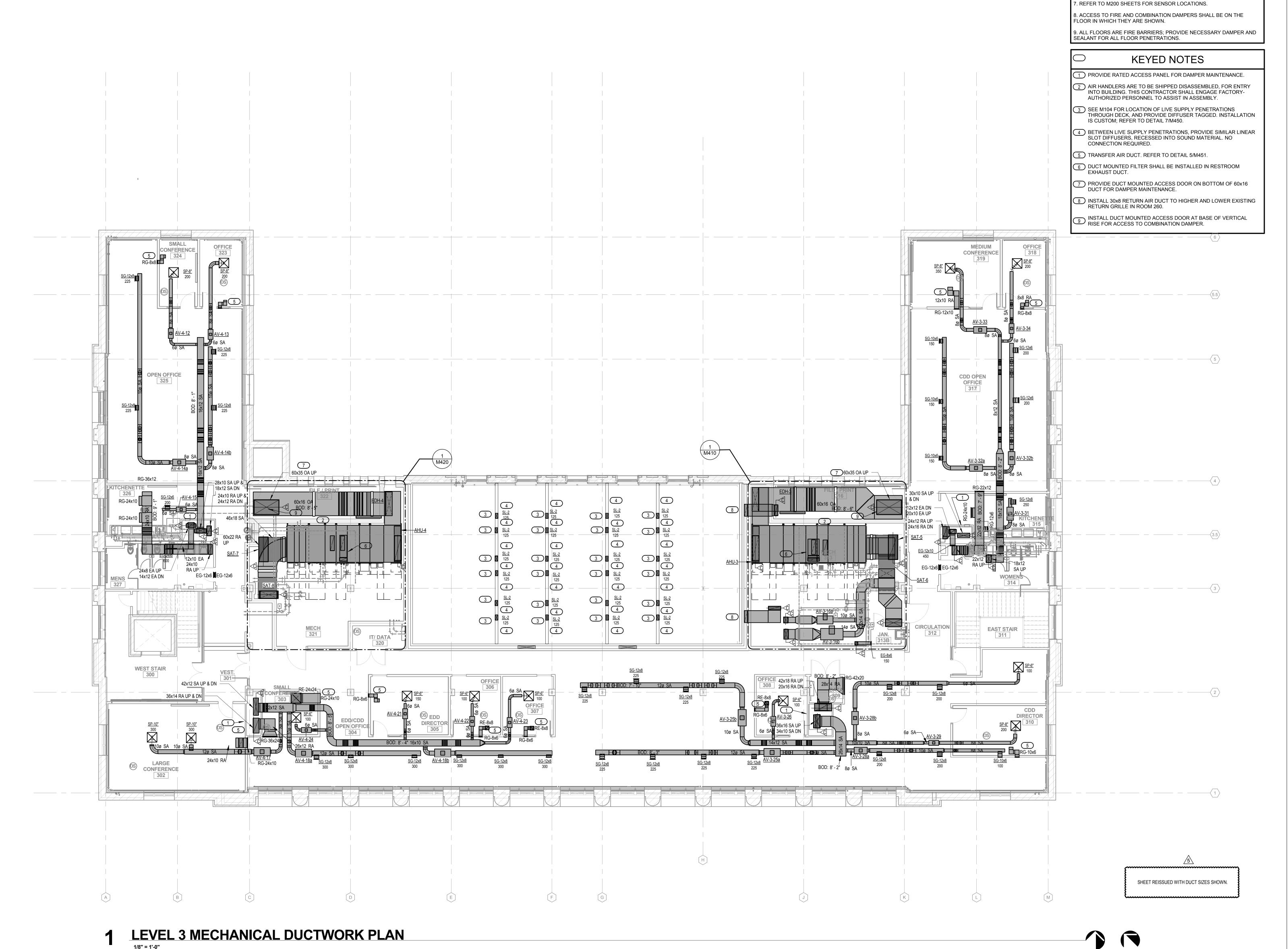
5 24.04.2017 ADDENDUM #5

PROJECT NO. 2014057 PROJECT PHASE

DRAWN BY: CHECKED BY:
ALH/BTB/JTG RCA

LEVEL TWO MECHANICAL **DUCTWORK PLAN**

EXHIBIT I



2. HYDRONIC PIPING AND EQUIPMENT IS SHOWN ON DUCTWORK PLAN FOR REFERENCE ONLY. REFER TO M200 SERIES FOR HYDRONIC PLANS.

3. ALL EXPOSED TO VIEW DUCTWORK SHALL BE UNINSULATED, AND PREPPED FOR PAINTING.

4. NOTE THAT HISTORICAL / ARCHITECTURAL CONCERNS DICTATE NO PIPING, PLUMBING, OR HVAC ELEMENTS APPEAR IN CERTAIN AREAS.

REFER TO ARCHITECTURAL PLANS FOR COORDINATION OF "EXCLUSION

6. OFFSETS FOR DUCTWORK, EG, AROUND BEAMS, SHALL BE 45 DEGREE

5. COMPOUND CEILING PANELS SHOULD GENERALLY NOT BE

MITER OR GORE. 90 DEGREE OFFSETS NOT ALLOWED.

BETWEEN. REFER TO ARCHITECTURAL.

PROJECT NORTH TRUE NORTH

PENETRATED FOR HANGERS. ARCHITECTURAL PROVIDES UNISTRUT

1. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET.

710 South 2nd Street, 8th Floor Minneapolis, Minnesota 55401–2282

Architecture 612 375 0336 tel
Interiors and 612 342 2216 fax
Urban Design www.msrdesign.com

Civil Engineering and Landscape Architects

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MEP Associates

MEP Associates

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Eagan, MN 55121
651.379.9120 tel

Lighting Designer

Gallina Design

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Chatfield, MN 55923
507.867.1628 tel

Preservation Architect

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608.449.9589 tel

Building Envelope Consultant
Insite Consulting Architects

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Summit Fire Consulting

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651.251.1879 tel

Acoustical Consultant

KRA

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Minneapolis, MN 55417

Civil Engineers

Civil Engineers

VIERBICHER

999 Fourier Drive, Suite 201

Madison
WI 53717

Madison, WI 53703

Madison, WI 53703

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Signature: _______

Print Names: _______

Date: ______ License No: ______

PROJECT NO.

2014057

PROJECT PHASE

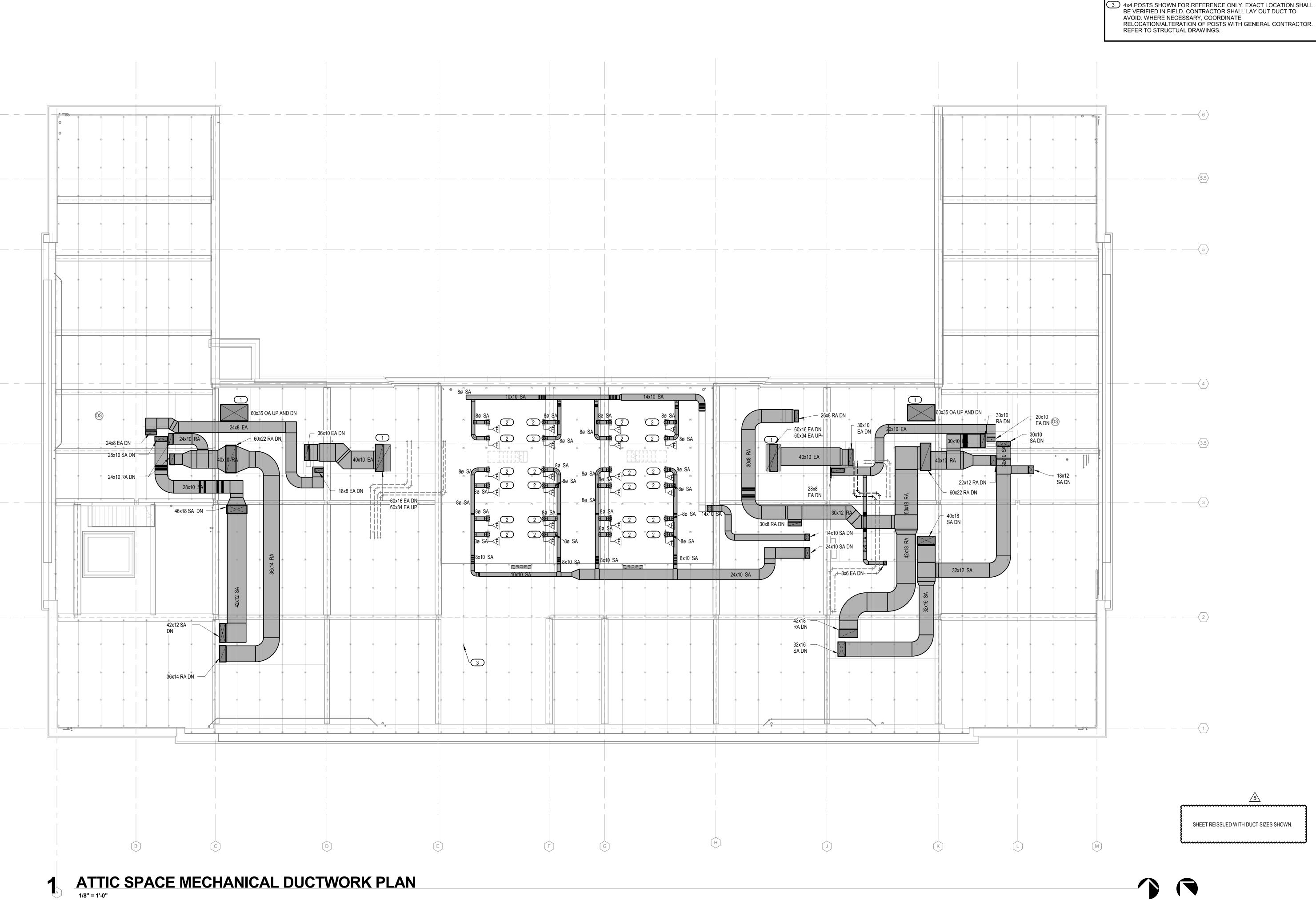
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DRAWN BY: CHECKED BY: RCA

Drawing 2016 Copyright Meyer, Scherer & Rockcastle, Ltd.

LEVEL THREE MECHANICAL DUCTWORK PLAN

EXHIBIT I **M103**



1. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET. 2. HYDRONIC PIPING AND EQUIPMENT IS SHOWN ON DUCTWORK PLAN FOR REFERENCE ONLY. REFER TO M200 SERIES FOR HYDRONIC PLANS.

3. ALL EXPOSED TO VIEW DUCTWORK SHALL BE UNINSULATED, AND PREPPED FOR PAINTING. 4. NOTE THAT HISTORICAL / ARCHITECTURAL CONCERNS DICTATE NO

PIPING, PLUMBING, OR HVAC ELEMENTS APPEAR IN CERTAIN AREAS. REFER TO ARCHITECTURAL PLANS FOR COORDINATION OF "EXCLUSION

5. COMPOUND CEILING PANELS SHOULD GENERALLY NOT BE PENETRATED FOR HANGERS. ARCHITECTURAL PROVIDES UNISTRUT BETWEEN. REFER TO ARCHITECTURAL.

6. OFFSETS FOR DUCTWORK, EG, AROUND BEAMS, SHALL BE 45 DEGREE MITER OR GORE. 90 DEGREE OFFSETS NOT ALLOWED.

7. REFER TO M200 SHEETS FOR SENSOR LOCATIONS. 8. ACCESS TO FIRE AND COMBINATION DAMPERS SHALL BE ON THE FLOOR IN WHICH THEY ARE SHOWN.

9. ALL FLOORS ARE FIRE BARRIERS; PROVIDE NECESSARY DAMPER AND SEALANT FOR ALL FLOOR PENETRATIONS.

KEYED NOTES

- 1) CONNECT DUCT TO LOUVERED PENTHOUSE THROAT SIZE PLENUM BOX; REFER TO SCHEDULE. INCLUDE FIRE DAMPER AT ATTIC SPACE DECK, SHOWN BELOW.
- 2 SUPPLY DUCT PENETRATION THROUGH DECK SHALL INCLUDE FIRE DAMPER, AS SHOWN. PENETRATION MUST BE COORDINATED WITH STRUCTURAL; REFER TO STRUCTURAL PLANS. INSTALLATION IS CUSTOM; REFER TO DETAIL 7/M450.

PROJECT NORTH TRUE NORTH

Lighting Designer Gallina Design 30232 County 7 Chatfield, MN 55923 507.867.1628 tel

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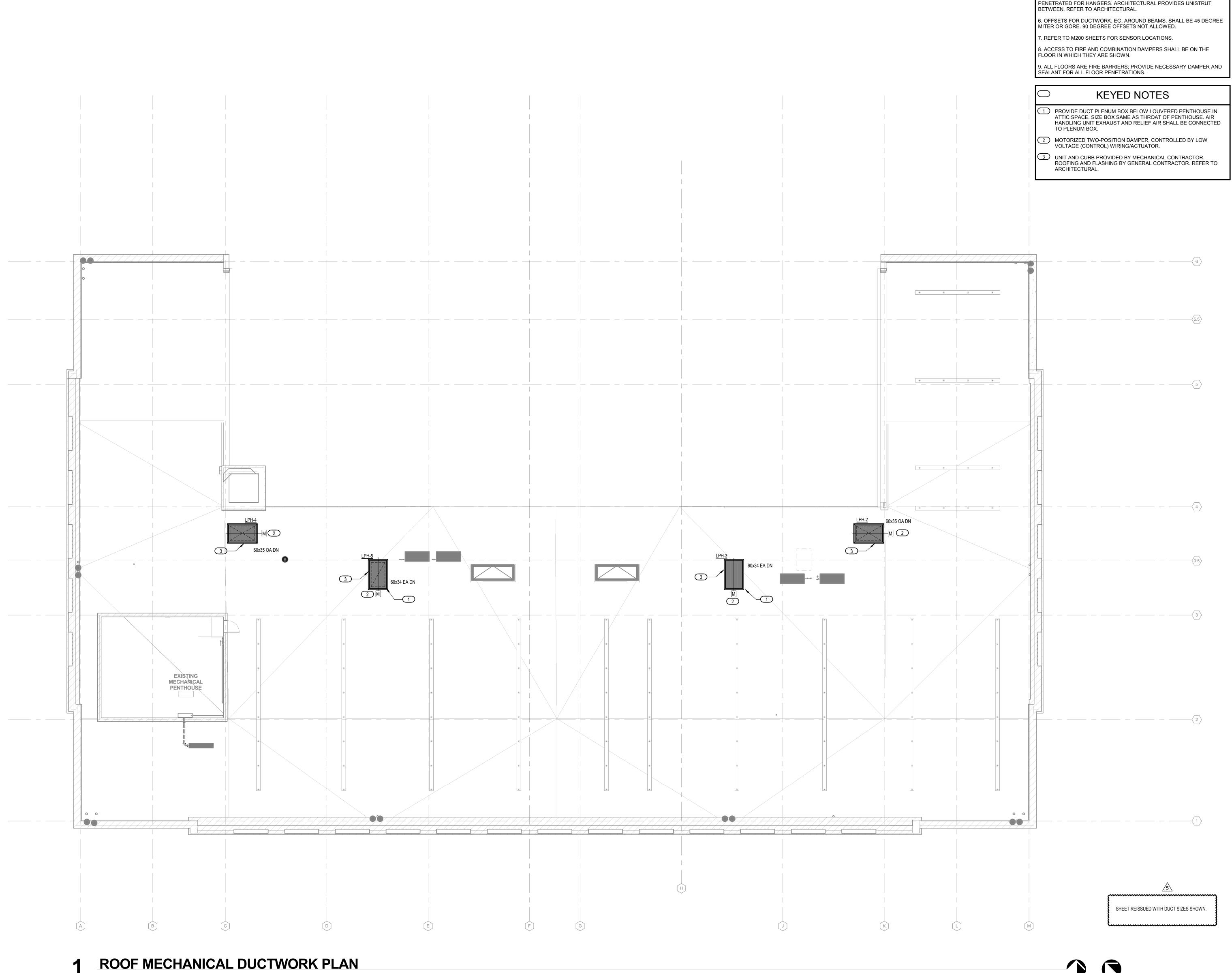
ENGINEER SEAL

5 24.04.2017 ADDENDUM #5

DRAWN BY: CHECKED BY: ALH/BTB/JTG RCA

ROOF ATTIC MECHANICAL **DUCTWORK PLAN**

EXHIBIT I



1. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET. 2. HYDRONIC PIPING AND EQUIPMENT IS SHOWN ON DUCTWORK PLAN FOR REFERENCE ONLY. REFER TO M200 SERIES FOR HYDRONIC PLANS.

3. ALL EXPOSED TO VIEW DUCTWORK SHALL BE UNINSULATED, AND PREPPED FOR PAINTING. 4. NOTE THAT HISTORICAL / ARCHITECTURAL CONCERNS DICTATE NO PIPING, PLUMBING, OR HVAC ELEMENTS APPEAR IN CERTAIN AREAS.

REFER TO ARCHITECTURAL PLANS FOR COORDINATION OF "EXCLUSION 5. COMPOUND CEILING PANELS SHOULD GENERALLY NOT BE

PENETRATED FOR HANGERS. ARCHITECTURAL PROVIDES UNISTRUT

PROJECT NORTH TRUE NORTH

Gallina Design

30232 County 7 Chatfield, MN 55923 507.867.1628 tel

Preservation Architect Charles Quagliana, AIA

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Architecture 612 375 0336 tel

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Print Names: __

5 24.04.2017 ADDENDUM #5

PROJECT NO.

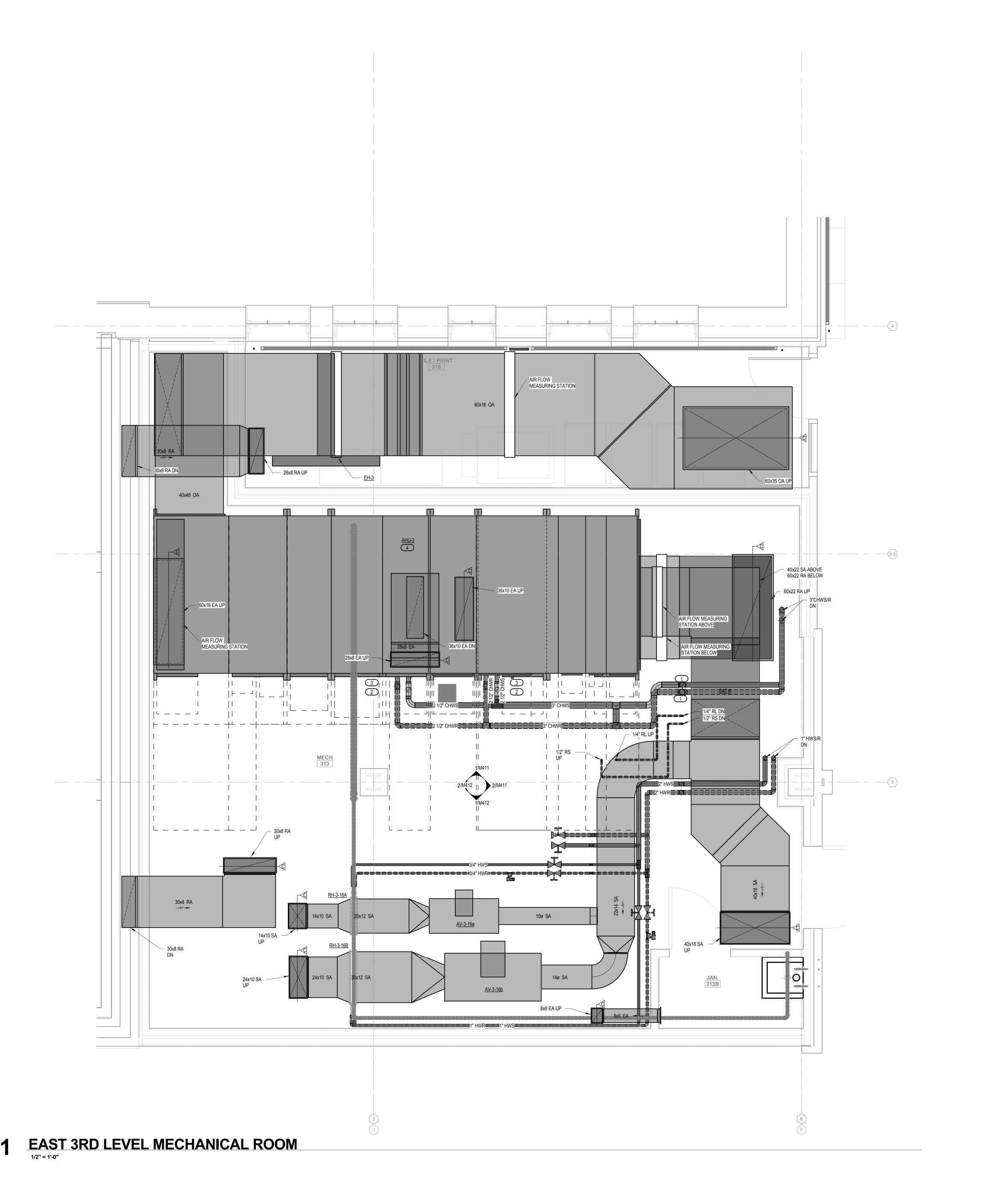
2014057 DRAWN BY: CHECKED BY:
ALH/BTB/JTG RCA

ROOF MECHANICAL

DUCTWORK PLAN

M105

EXHIBIT I



2. ALL HYDRONIC PIPING IN THIS VIEW SHALL BE HUNG WITH SPRING

3. ALL HYDRONIC PIPING IN THIS VIEW SHALL BE PROVIDED WITH PVC JACKET, PER SPECIFICATIONS.

4. FOR ALL EQUIPMENT, MAINTAIN ACCESS/CLEARANCE REQUIREMENTS. FOR DUCT-MOUNTED EQUIPMENT, ENSURE PULL SPACE HORIZONTAL OR VERTICAL, AS REQUIRED BY SPACE CONSTRAINTS.

KEYED NOTES

1 REFER TO DETAIL 4/M452; AUTOMATIC AIR VENT ASSEMBLY.

2 REFER TO DETAIL 6/M450; 2-WAY AHU COOLING COIL

3 REFER TO DETAIL 4/M450; NEGATIVE PRESSURE CONDENSATE

FINAL CONNECTION TO AHU SHALL MATCH AHU OPENING DIMENSIONS OR CONTRACTOR SHALL PROVIDE BLANK-OFF DUCT CONNECTIONS, INSULATED.

1. ALL DUCTWORK IN THIS VIEW SHALL BE HUNG WITH SPRING HANGERS.

Civil Engineering and Landscape Architects Ken Saiki Design, Inc 303 South Paterson St Madison, WI 53703 608.251.3600 tel

Structural Engineering, Technology, AV

MSR 710 South 2nd Street, 8th Floor Minneapolis, Minnesota 55401–2282

Architecture 612 375 0336 tel

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KJWW 1800 Deming Way, Suite 200 Middleton, WI 53713 608.223.9600 tel

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Gallina Design 30232 County 7 Chatfield, MN 55923 507.867.1628 tel

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BPW Project #7939 5 Martin Luther King, Jr. E Madison, WI 53703

Print Names:_

 MARK
 DATE
 DESCRIPTION

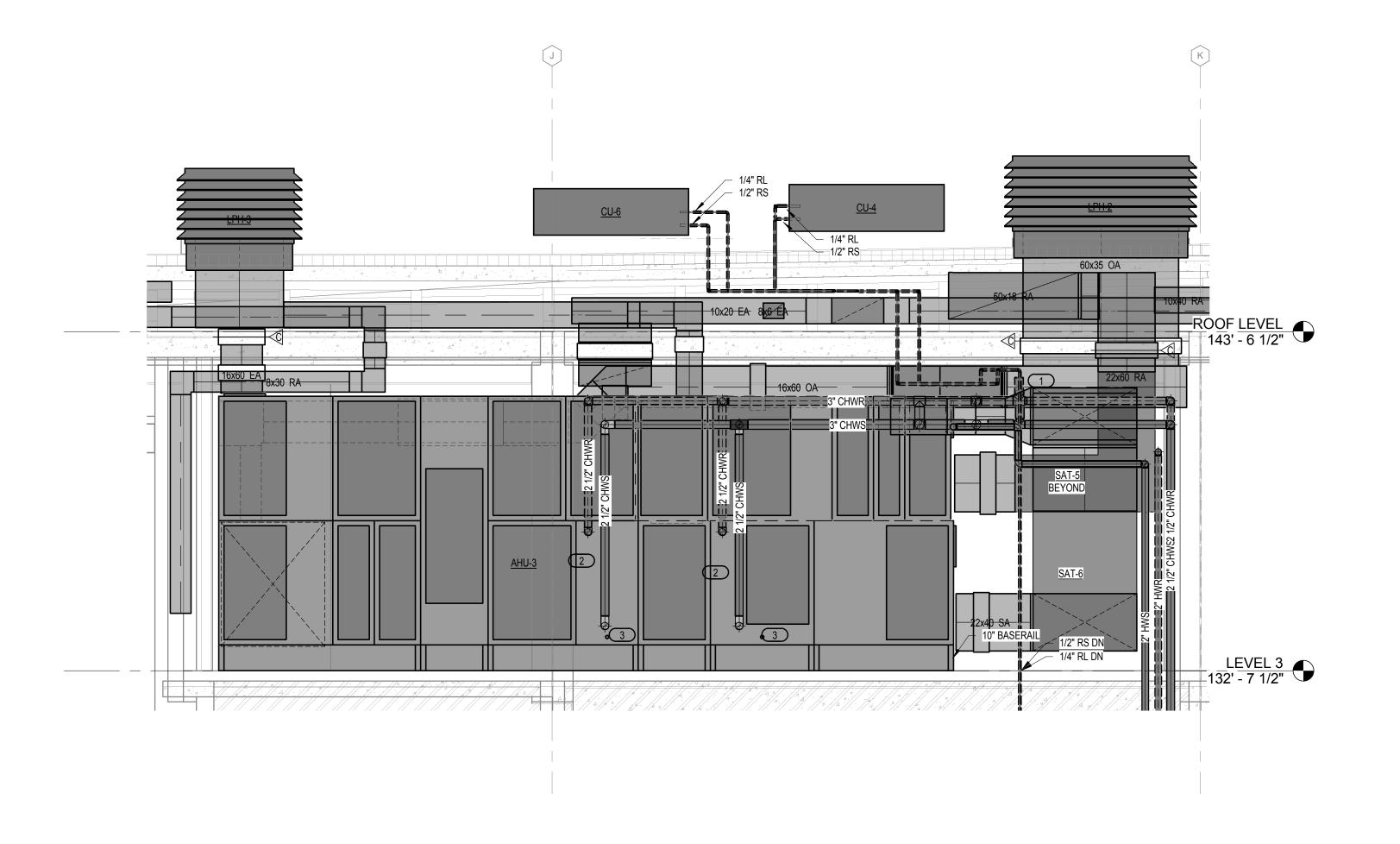
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 5 24.04.2017 ADDENDUM #5

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ALH/BTB/JTG Checker ENLARGED LEVEL

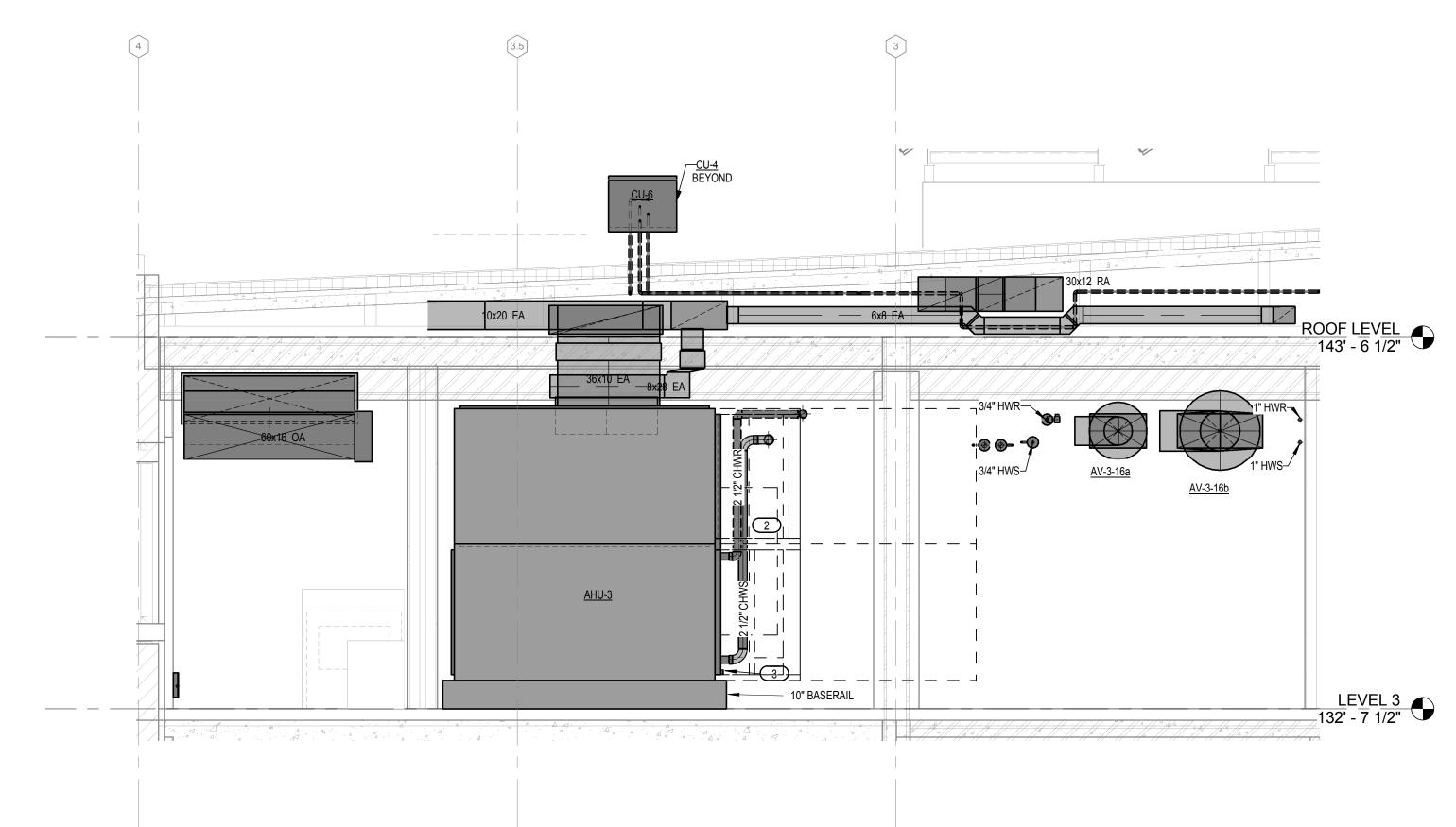
THREE EAST MECHANICAL **ROOM PLAN**

EXHIBIT I M410

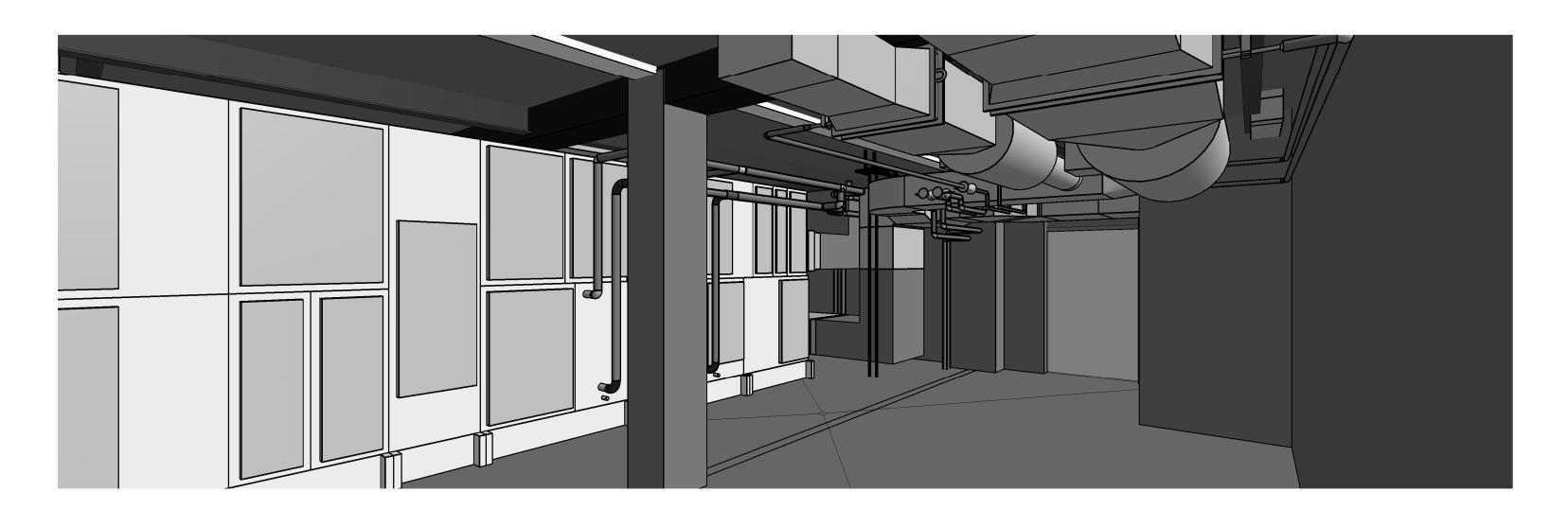
SHEET REISSUED WITH DUCT SIZES SHOWN.



3RD LEVEL EAST MECHANICAL ROOM - NORTH 3/8" = 1'-0"



2 3RD LEVEL EAST MECHANICAL ROOM - EAST 3/8" = 1'-0"



3 3RD LEVEL EAST MECHANICAL ROOM NORTH-EAST CORNER

GENERAL NOTES

1. ALL DUCTWORK IN THIS VIEW SHALL BE HUNG WITH SPRING HANGERS. 2. ALL HYDRONIC PIPING IN THIS VIEW SHALL BE HUNG WITH SPRING

3. ALL HYDRONIC PIPING IN THIS VIEW SHALL BE PROVIDED WITH PVC JACKET, PER SPECIFICATIONS. 4. FOR ALL EQUIPMENT, MAINTAIN ACCESS/CLEARANCE REQUIREMENTS. FOR DUCT-MOUNTED EQUIPMENT, ENSURE PULL SPACE HORIZONTAL OR VERTICAL, AS REQUIRED BY SPACE CONSTRAINTS.

KEYED NOTES

1 REFER TO DETAIL 4/M452; AUTOMATIC AIR VENT ASSEMBLY.

2 REFER TO DETAIL 6/M450; 2-WAY AHU COOLING COIL.

3 REFER TO DETAIL 4/M450; NEGATIVE PRESSURE CONDENSATE

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 DESCRIPTION

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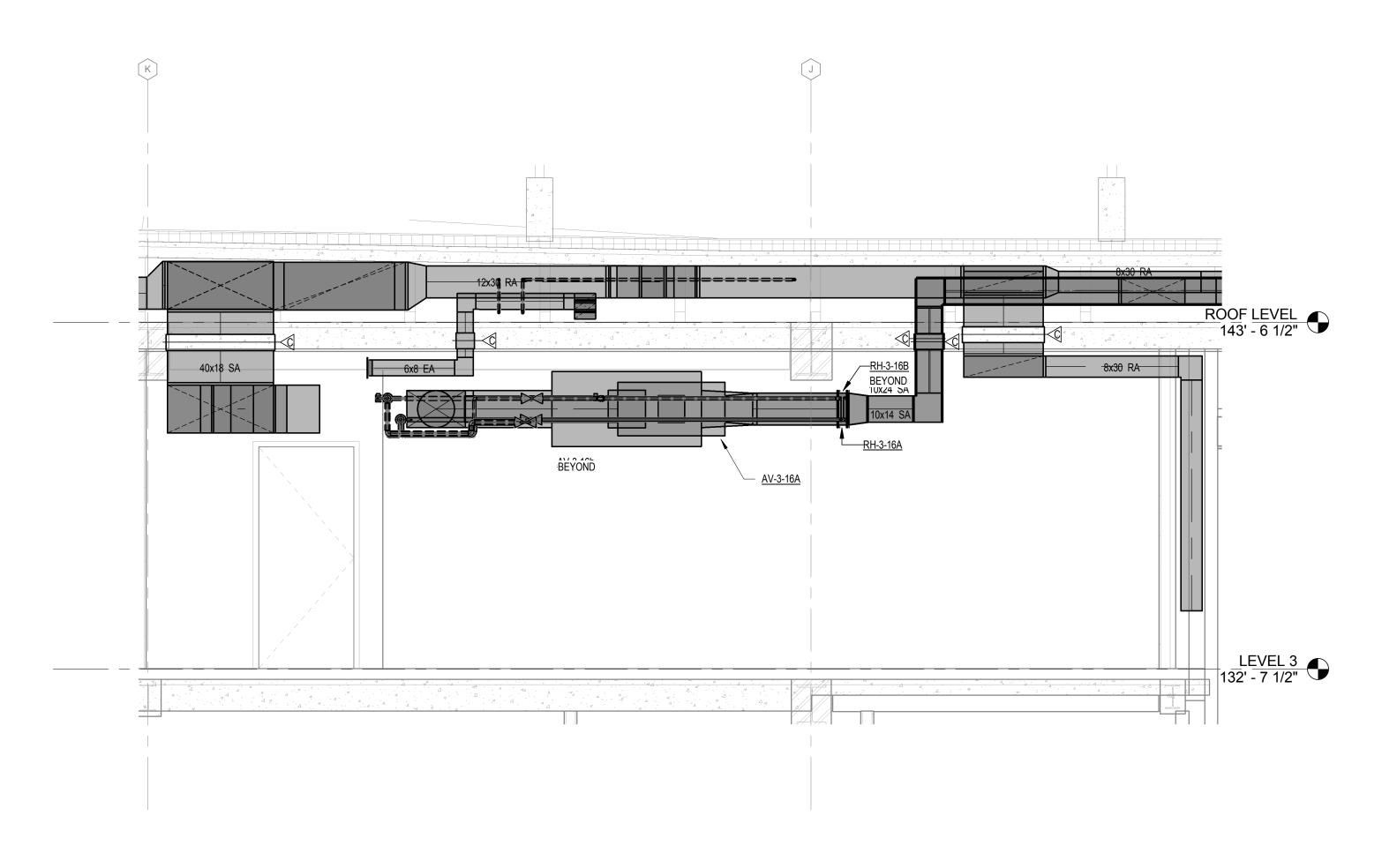
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LEVEL THREE EAST MECHANICAL **ROOM ELEVATIONS**

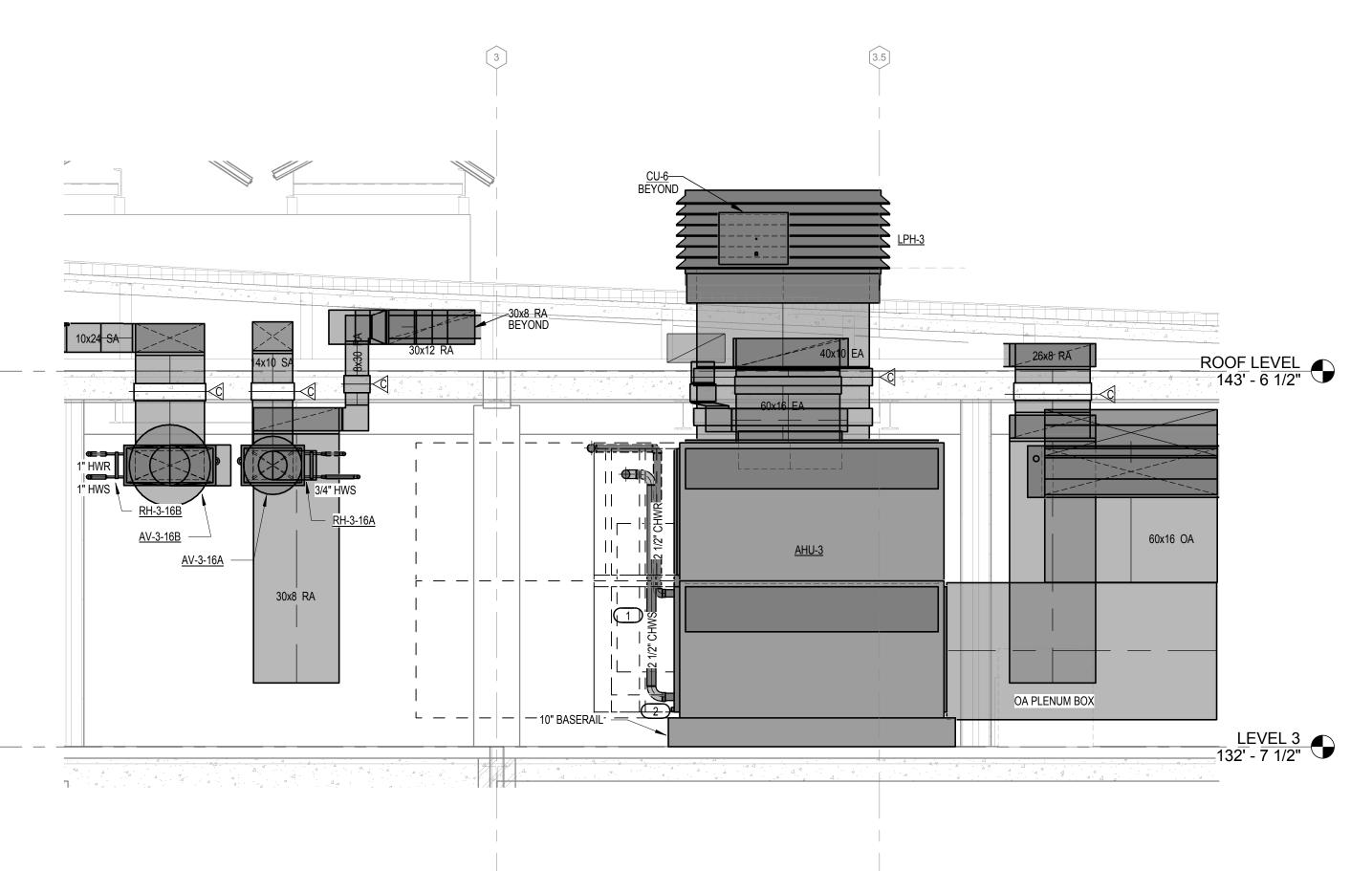
EXHIBIT I

M411

SHEET REISSUED WITH DUCT SIZES SHOWN



3RD LEVEL EAST MECHANICAL ROOM - SOUTH
3/8" = 1'-0"



2 3RD LEVEL EAST MECHANICAL ROOM - WEST
3/8" = 1'-0"

GENERAL NOTES

1. ALL DUCTWORK IN THIS VIEW SHALL BE HUNG WITH SPRING HANGERS. 2. ALL HYDRONIC PIPING IN THIS VIEW SHALL BE HUNG WITH SPRING

3. ALL HYDRONIC PIPING IN THIS VIEW SHALL BE PROVIDED WITH PVC JACKET, PER SPECIFICATIONS.

4. FOR ALL EQUIPMENT, MAINTAIN ACCESS/CLEARANCE REQUIREMENTS. FOR DUCT-MOUNTED EQUIPMENT, ENSURE PULL SPACE HORIZONTAL OR VERTICAL, AS REQUIRED BY SPACE CONSTRAINTS.

KEYED NOTES

SHEET REISSUED WITH DUCT SIZES SHOWN.

1 REFER TO DETAIL 6/M450; 2-WAY AHU COOLING COIL.

2 REFER TO DETAIL 4/M450; NEGATIVE PRESSURE CONDENSATE

575 Minnehaha Ave. W. St. Paul, MN 55103 651.251.1879 tel Acoustical Consultant

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Gallina Design

Civil Engineers VIERBICHER 999 Fourier Drive, Suite 201 Madison WI 53717

Madison Municipal Building Renovation

BPW Project #7939 5 Martin Luther King, Jr. E Madison, WI 53703

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 DESCRIPTION

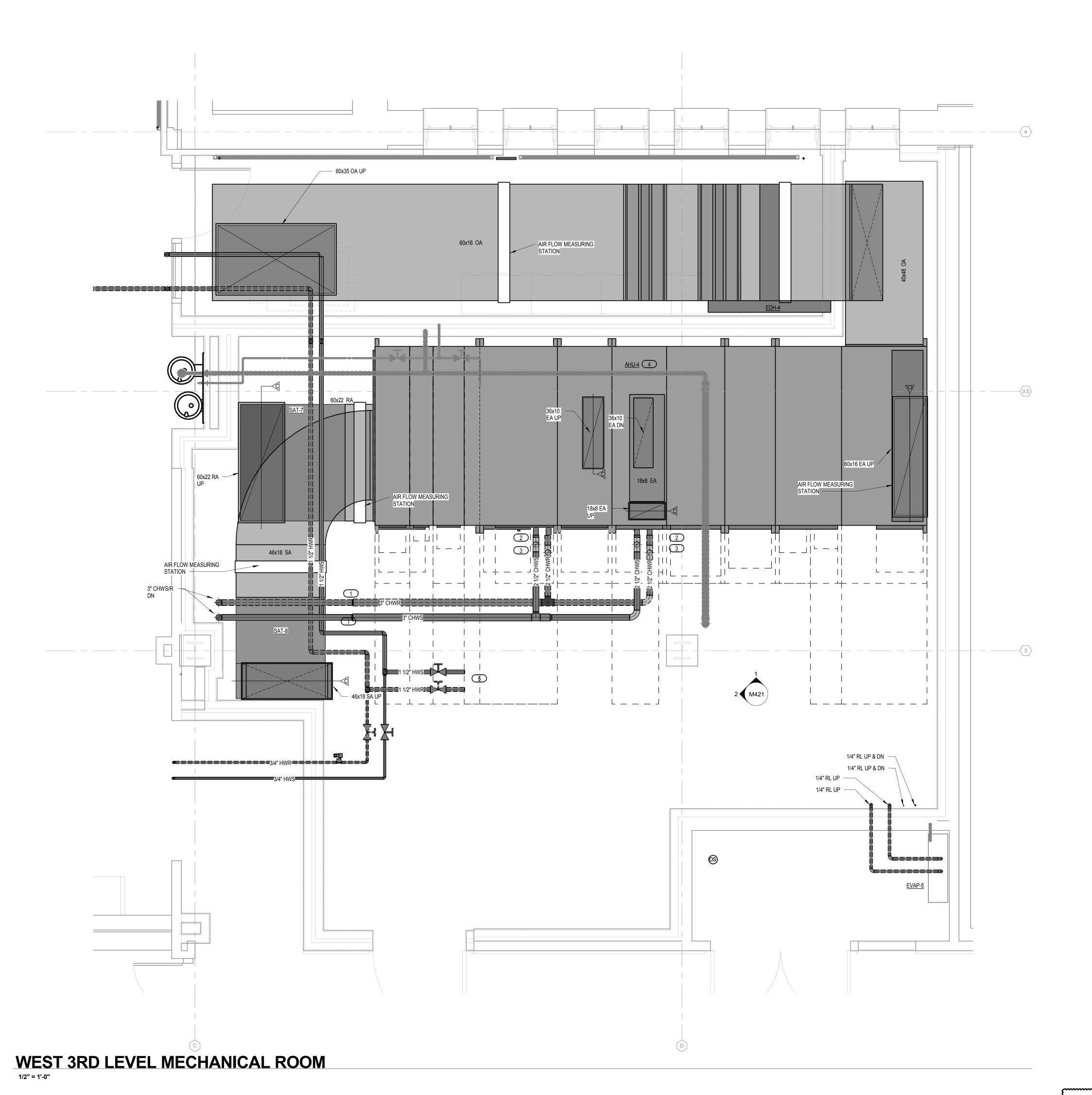
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ALH/BTB/JTG Checker

LEVEL THREE EAST MECHANICAL **ROOM ELEVATIONS**

EXHIBIT I



SHEET REISSUED WITH DUCT SIZES SHOWN.

GENERAL NOTES

1. ALL DUCTWORK IN THIS VIEW SHALL BE HUNG WITH SPRING HANGERS. 2. ALL HYDRONIC PIPING IN THIS VIEW SHALL BE HUNG WITH SPRING

3. ALL HYDRONIC PIPING IN THIS VIEW SHALL BE PROVIDED WITH PVC JACKET, PER SPECIFICATIONS.

KEYED NOTES

1 REFER TO DETAIL 4/M452; AUTOOMATIC AIR VENT ASSEMBLY.

2 REFER TO DETAIL 6/M450; 2-WAY AHU COOLING COIL.

5 HWS/HWR VALVED AND CAPPED FOR FUTURE USE.

4. FOR ALL EQUIPMENT, MAINTAIN ACCESS/CLEARANCE REQUIREMENTS. FOR DUCT-MOUNTED EQUIPMENT, ENSURE PULL SPACE HORIZONTAL OR VERTICAL, AS REQUIRED BY SPACE CONSTRAINTS.

3 REFER TO DETAIL 4/M450; NEGATIVE PRESSURE CONDENSATE

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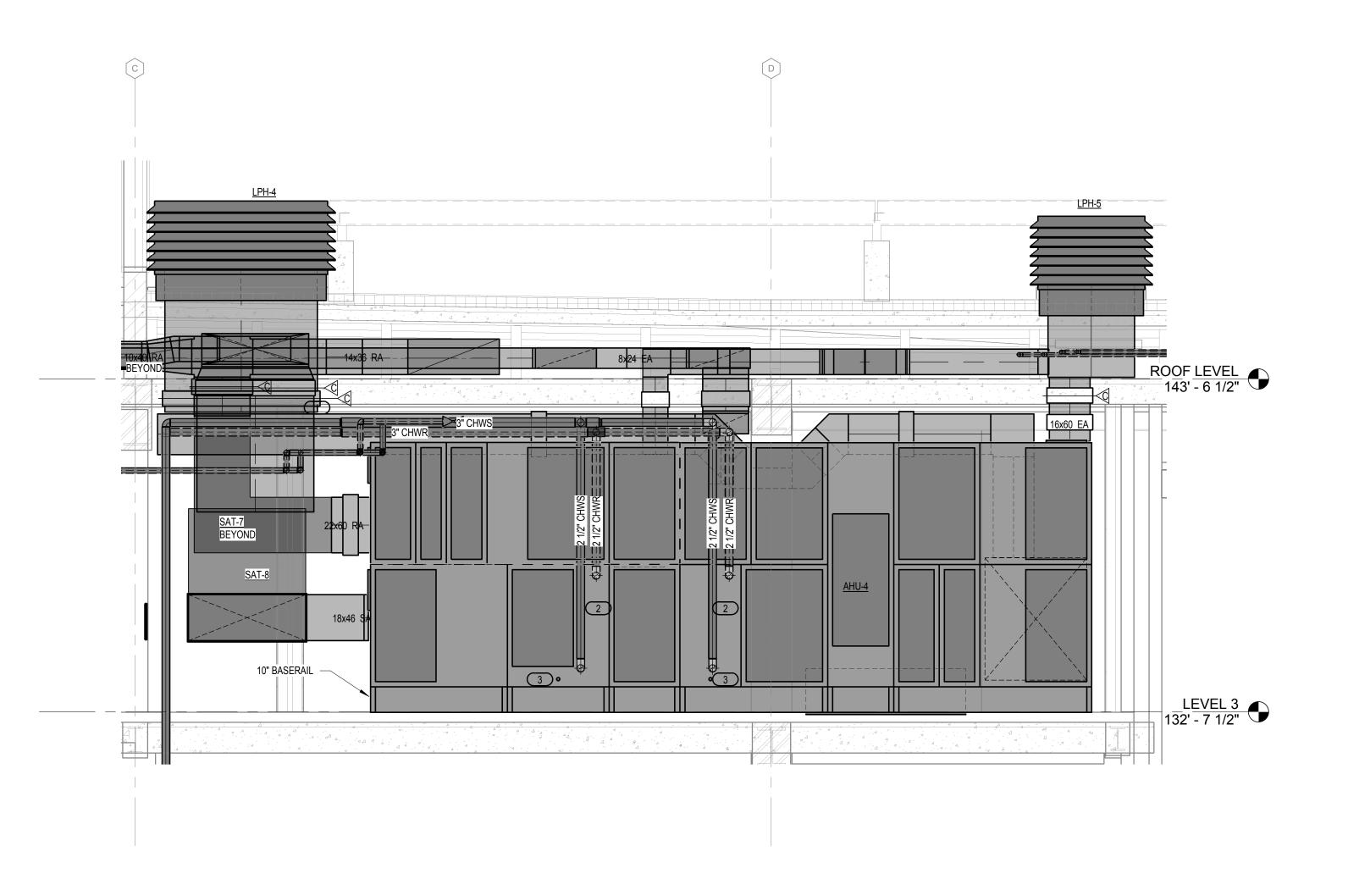
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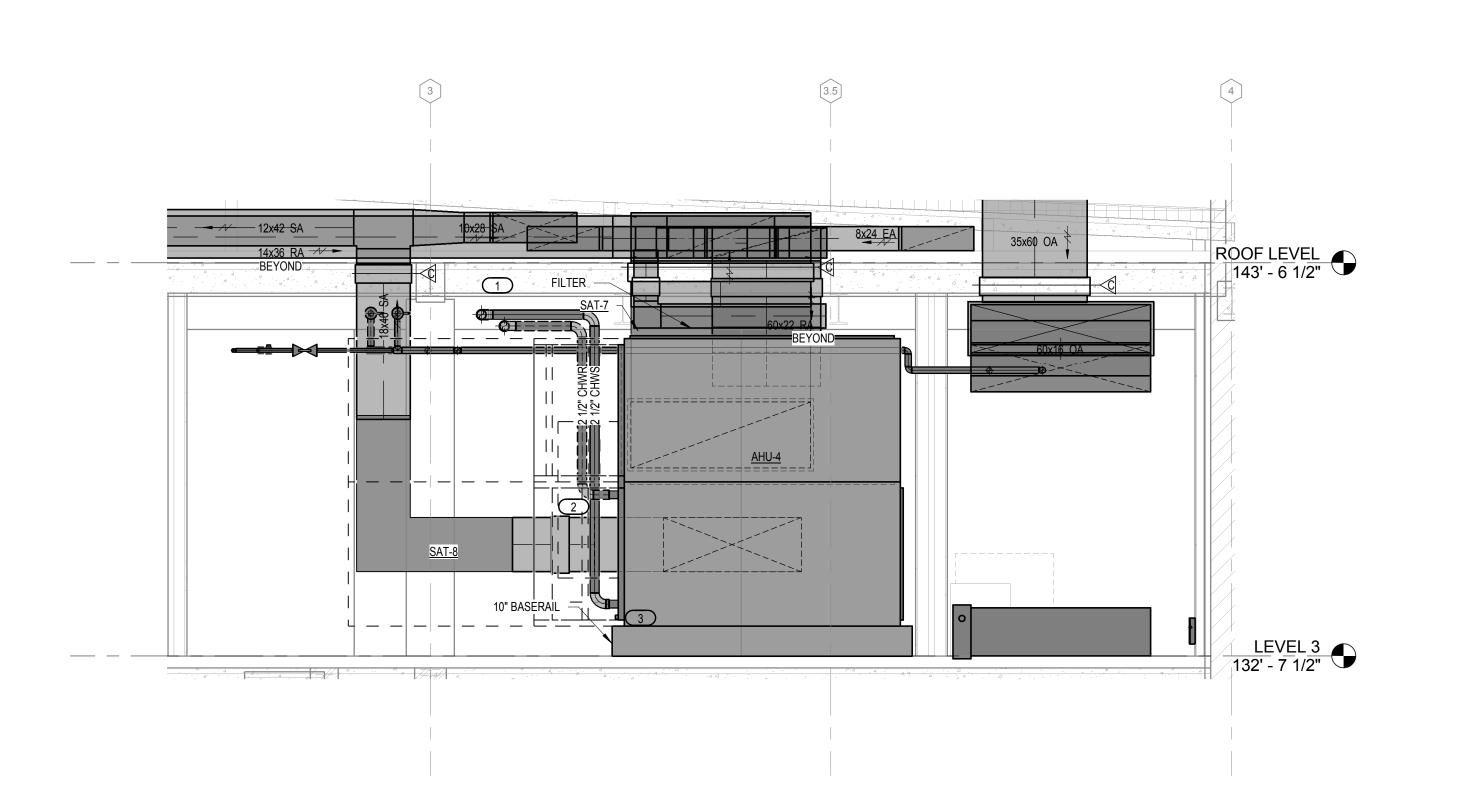
ENLARGED LEVEL THREE WEST MECHANICAL

EXHIBIT I

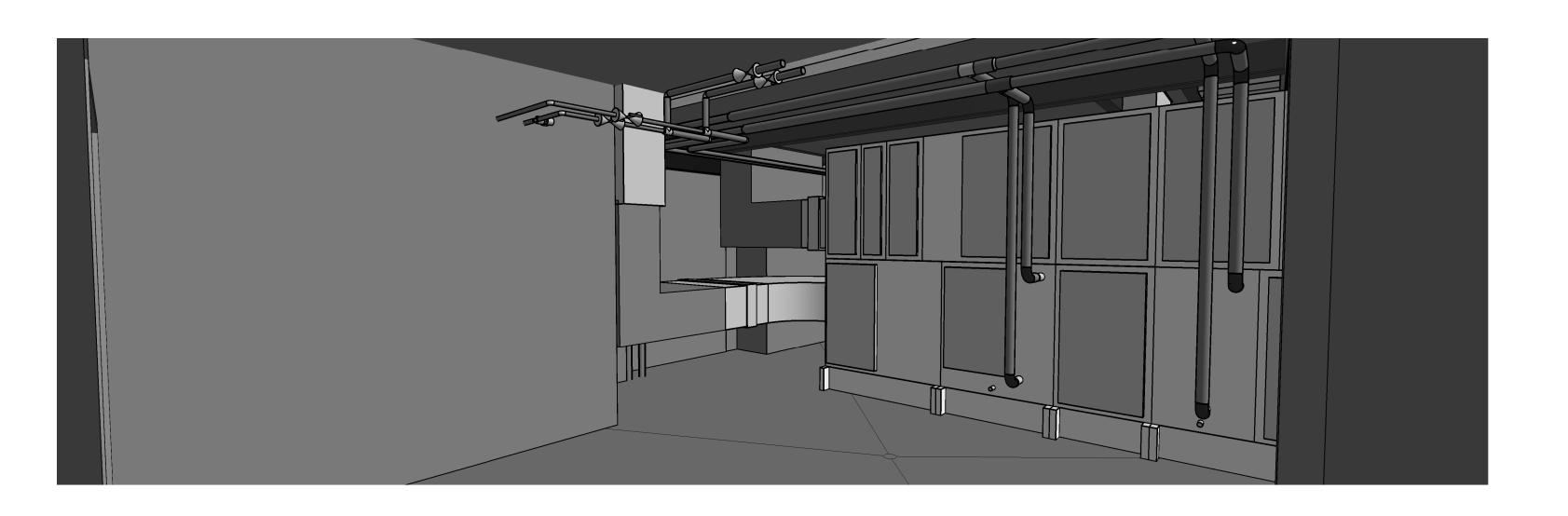
ROOM PLAN



3RD LEVEL WEST MECHANICAL ROOM - NORTH



2 3RD LEVEL WEST MECHANICAL ROOM - WEST 3/8" = 1'-0"



SHEET REISSUED WITH DUCT SIZES SHOWN

GENERAL NOTES

1. ALL DUCTWORK IN THIS VIEW SHALL BE HUNG WITH SPRING HANGERS. 2. ALL HYDRONIC PIPING IN THIS VIEW SHALL BE HUNG WITH SPRING

3. ALL HYDRONIC PIPING IN THIS VIEW SHALL BE PROVIDED WITH PVC JACKET, PER SPECIFICATIONS.

4. FOR ALL EQUIPMENT, MAINTAIN ACCESS/CLEARANCE REQUIREMENTS. FOR DUCT-MOUNTED EQUIPMENT, ENSURE PULL SPACE HORIZONTAL OR

KEYED NOTES

VERTICAL, AS REQUIRED BY SPACE CONSTRAINTS.

1 REFER TO DETAIL 4/M452; AUTOMATIC AIR VENT ASSEMBLY.

2 REFER TO DETAIL 6/M450; 2-WAY AHU COOLING COIL.

3 REFER TO DETAIL 4/M450; NEGATIVE PRESSURE CONDENSATE

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on Municipal y Renovation Madison Building F

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5 24.04.2017 ADDENDUM #5

DRAWN BY: CHECKED BY: Checker

LEVEL THREE WEST MECHANICAL **ROOM ELEVATIONS**

EXHIBIT I