

ADDENDUM NUMBER [01]

Date: October 13, 2022

Project Name: Johnson County Courthouse –
Second Level Courtroom Renovation

Project Number: 18.112

Project Location: 417 S. Clinton St.

From: Neumann Monson Inc.
221 East College St., Suite 303
Iowa City, Iowa 52240
Phone: 319.338.7878

To: All Plan Holders

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated September 23, 2022 as noted below.

Acknowledge receipt of this Addendum by placing the number [01] in the appropriate blank provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 3 pages and the following attachments:

Document	No. of Pages or sheet size
Modus Addendum 1	2 pages
Section 00 5200a – A101-2017 Exhibit A	7 pages
Section 03 5400 – CAST UNDERLAYMENT	4 pages
Sheet AD-102.4	24 inches by 36 inches
Sheet A-501.4	24 inches by 36 inches
Sheet A-503.4	24 inches by 36 inches
Sheet A-601.4	24 inches by 36 inches
Sheet MD-101.4	24 inches by 36 inches
Sheet M-101.4	24 inches by 36 inches
Sheet M-601.4	24 inches by 36 inches

CHANGES TO PRIOR ADDENDA: **NONE**

CHANGES TO INTRODUCTORY INFORMATION: **NONE**

CHANGES TO PROCUREMENT AND CONTRACTING REQUIREMENTS:

ITEM 1-1 Change all references to on-site construction commencement to February 1, 2023 and substantial completion to September 1, 2023.

ITEM 1-2 SECTION 00 5200a – Standard Form of Agreement
A. Add Exhibit A to A101-2017.

CHANGES TO TECHNICAL SPECIFICATIONS:

ITEM 1-3 SECTION 03 5400 – CAST UNDERLAYMENT

- A. Replace the section in its entirety with the attached section.

ITEM 1-4 SECTION 12 2400 – WINDOW SHADES

- A. 2.03,A,1,d: Change to read: "R300 Crosshatch Color: Eggshell / FOG C8212."
B. 3.08:
1. A: add sizes: (4) 38"x110", (2) 44"x110", (1) 30"x110".
2. B: add sizes: (4) 38"x110", (2) 44"x110".
3. C: change height to 110" in lieu of 72".
4. D: change height to 110" in lieu of 72".
5. E: change size to 32" x 110".
6. F: change size to 32" x 110".

CHANGES TO DRAWINGS:

ITEM 1-5 SHEET AD102.4 – SECOND LEVEL RCP DEMOLITION

- A. Rename sheet to: SECOND AND THIRD LEVEL FLOOR PLAN AND RCP DEMOLITION
B. Add C3: PARTIAL PLAN - THIRD LEVEL SOUTH.

ITEM 1-6 SHEET A-501.4 – DETAILS

- A. Detail A4: Modify detail.

ITEM 1-7 SHEET A-502.4 – DETAILS

- A. Detail A5: Clarification: this detail applies only at WEST STAIR 02H.

ITEM 1-8 SHEET A-503.4 – DETAILS

- A. Detail C2: Modify detail.

ITEM 1-9 SHEET A601.4 – FINISH SCHEDULE AND PLAN

- A. ROOM FINISH SCHEDULE PROJECT 4: Modify as noted. Add specific note 7.

ITEM 1-10 SHEET MD-101.4 – MECHANICAL DEMOLITION PLAN

- A. Modify sheet as noted.

ITEM 1-11 SHEET M-101.4 – MECHANICAL PLAN

- A. Modify sheet as noted.
B. ATTIC HVAC PLAN PHASE 4: Provide and install 600sf of 3 / 4" Wood Underlayment;
screw fasten to existing wood joists. The wood walkway shall act as access for HVAC
work.

ITEM 1-12 SHEET M-601.4 – MECHANICAL SCHEDULES

- A. Modify sheet as noted.

APPROVED SUBSTITUTIONS

NONE

END OF ADDENDUM NO. [01]

Johnson County Courthouse		
PROJECT:	Second Level Court Room Renovation	PROJECT NUMBER: 21-163
		DATE: October 13, 2022

NOTE { THIS ADDENDUM HAS BEEN ISSUED TO MODIFY AND/OR INTERPRET THE BIDDING DOCUMENTS, INCLUDING THE DRAWINGS AND SPECIFICATIONS. UNLESS OTHERWISE INSTRUCTED. THE INFORMATION CONTAINED ON THE ADDENDUM SHALL TAKE PRECEDENCE OVER ANYTHING CONTRARY ON THE ORIGINAL BIDDING DOCUMENTS AND SHALL BE HEREINAFTER CONSIDERED AS A PARTY OF THE BIDDING DOCUMENTS.

SPECIFICATIONS

SECTION 23 3421 – ENERGY RECOVERY VENTILATORS

1. **ADD** 2.01.D. ERV shall be knockdown style due to limited site access. ERV shall be capable of being fully disassembled onsite and reassembled in its final location. Refer to the plans for access requirements.

PLANS

SHEET MD-101.4 – MECHANICAL DEMOLITION PLAN

1. **REVISE** reference note 2, "REMOVE EXISTING VAV BOX AND ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROLS".
2. **ADD** reference note 13, "REMOVE EXISTING SHAFT WALLS AS REQUIRED. OPENING SHALL BE USED AS PATHWAY FOR NEW EQUIPMENT INTO THE ATTIC. COORDINATE WORK WITH GENERAL CONTRACTOR."

SHEET M-101.4 – MECHANICAL PLAN

1. **ADD** reference note 10, "SHAFT OPENING SHALL BE USED AS ACCESS FOR NEW EQUIPMENT INTO THE ATTIC. COORDINATE WORK WITH GENERAL CONTRACTOR."

SHEET M-601.4 – MECHANICAL SCHEDULES

1. **REVISE** ERV schedule note 4, "ERV-2 PERFORMANCE BASED ON ERF-1 PERFORMANCE INSTALLED UNDER PREVIOUS PHASE. DUE TO LIMITED ACCESS TO THE ATTIC, ERV-2 SHALL BE KNOCKDOWN STYLE. REFER TO SHEET M-101.4 FOR ADDITIONAL INFORMATION ON THE ACCESS ROUTE INTO THE ATTIC. A SINGLE KNOCKDOWN-STYLE ERV SHALL BE ACCEPTABLE IN LIEU OF TWINNED ERVS."

SHEET T101.4 – AV CONDUIT RISER

1. **CLARIFY** Depending on the room the conduit routing shall be modified. In room 02C the conduit feeding the furniture can go directly to the AV rack. In room 02D the recommended routing is to the consolidation box.

VENDOR APPROVALS

SECTION 23 3421 – ENERGY RECOVERY VENTILATORS

1. **ADD** Temtrol
2. **ADD** Tempeff

SECTION 26 5100 – INTERIOR LIGHTING

1. Type WA
 - a. **ADD** Casey Architectural Lighting
 - b. **ADD** G Lighting

ATTACHMENTS

SHEET MD-101.4 – MECHANICAL DEMOLITION PLAN... (36 x 24)

SHEET M-101.4 – MECHANICAL PLAN... (36 x 24)

SHEET M-601.4 – MECHANICAL SCHEDULES... (36 x 24)

TOTAL PAGES... 5



AIA® Document A101® – 2017 Exhibit A

Insurance and Bonds

This Insurance and Bonds Exhibit is part of the Agreement, between the Owner and the Contractor, dated the day of in the year
(In words, indicate day, month and year.)

for the following **PROJECT**:
(Name and location or address)

Johnson County Courthouse Second Level Courtroom Renovation
417 South Clinton St.
Iowa City, Iowa 52240

THE OWNER:
(Name, legal status and address)

Royceann Porter
Johnson County Board of Supervisors
913 South Dubuque St.
Iowa City, Iowa 52240

THE CONTRACTOR:
(Name, legal status and address)

TABLE OF ARTICLES

- A.1 GENERAL
- A.2 OWNER'S INSURANCE
- A.3 CONTRACTOR'S INSURANCE AND BONDS
- A.4 SPECIAL TERMS AND CONDITIONS

ARTICLE A.1 GENERAL

The Owner and Contractor shall purchase and maintain insurance, and provide bonds, as set forth in this Exhibit. As used in this Exhibit, the term General Conditions refers to AIA Document A201™–2017, General Conditions of the Contract for Construction.

ARTICLE A.2 OWNER'S INSURANCE

§ A.2.1 General

Prior to commencement of the Work, the Owner shall secure the insurance, and provide evidence of the coverage, required under this Article A.2 and, upon the Contractor's request, provide a copy of the property insurance policy or policies required by Section A.2.3. The copy of the policy or policies provided shall contain all applicable conditions, definitions, exclusions, and endorsements.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This document is intended to be used in conjunction with AIA Document A201®–2017, General Conditions of the Contract for Construction. Article 11 of A201®–2017 contains additional insurance provisions.

§ A.2.2 Liability Insurance

The Owner shall be responsible for purchasing and maintaining the Owner's usual general liability insurance.

§ A.2.3 Required Property Insurance

§ A.2.3.1 Unless this obligation is placed on the Contractor pursuant to Section A.3.3.2.1, the Owner shall purchase and maintain, from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located, property insurance written on a builder's risk "all-risks" completed value or equivalent policy form and sufficient to cover the total value of the entire Project on a replacement cost basis. The Owner's property insurance coverage shall be no less than the amount of the initial Contract Sum, plus the value of subsequent Modifications and labor performed and materials or equipment supplied by others. The property insurance shall be maintained until Substantial Completion and thereafter as provided in Section A.2.3.1.3, unless otherwise provided in the Contract Documents or otherwise agreed in writing by the parties to this Agreement. This insurance shall include the interests of the Owner, Contractor, Subcontractors, and Sub-subcontractors in the Project as insureds. This insurance shall include the interests of mortgagees as loss payees.

§ A.2.3.1.1 **Causes of Loss.** The insurance required by this Section A.2.3.1 shall provide coverage for direct physical loss or damage, and shall not exclude the risks of fire, explosion, theft, vandalism, malicious mischief, collapse, earthquake, flood, or windstorm. The insurance shall also provide coverage for ensuing loss or resulting damage from error, omission, or deficiency in construction methods, design, specifications, workmanship, or materials. Sub-limits, if any, are as follows:

(Indicate below the cause of loss and any applicable sub-limit.)

Causes of Loss

Sub-Limit

§ A.2.3.1.2 **Specific Required Coverages.** The insurance required by this Section A.2.3.1 shall provide coverage for loss or damage to falsework and other temporary structures, and to building systems from testing and startup. The insurance shall also cover debris removal, including demolition occasioned by enforcement of any applicable legal requirements, and reasonable compensation for the Architect's and Contractor's services and expenses required as a result of such insured loss, including claim preparation expenses. Sub-limits, if any, are as follows:

(Indicate below type of coverage and any applicable sub-limit for specific required coverages.)

Coverage

Sub-Limit

Builder's Risk Policy

\$2,000,000.00

§ A.2.3.1.3 Unless the parties agree otherwise, upon Substantial Completion, the Owner shall continue the insurance required by Section A.2.3.1 or, if necessary, replace the insurance policy required under Section A.2.3.1 with property insurance written for the total value of the Project that shall remain in effect until expiration of the period for correction of the Work set forth in Section 12.2.2 of the General Conditions.

§ A.2.3.1.4 **Deductibles and Self-Insured Retentions.** If the insurance required by this Section A.2.3 is subject to deductibles or self-insured retentions, the Owner shall be responsible for all loss not covered because of such deductibles or retentions.

§ A.2.3.2 **Occupancy or Use Prior to Substantial Completion.** The Owner's occupancy or use of any completed or partially completed portion of the Work prior to Substantial Completion shall not commence until the insurance company or companies providing the insurance under Section A.2.3.1 have consented in writing to the continuance of coverage. The Owner and the Contractor shall take no action with respect to partial occupancy or use that would cause cancellation, lapse, or reduction of insurance, unless they agree otherwise in writing.

§ A.2.3.3 Insurance for Existing Structures

If the Work involves remodeling an existing structure or constructing an addition to an existing structure, the Owner shall purchase and maintain, until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, "all-risks" property insurance, on a replacement cost basis, protecting the existing structure against direct physical loss or damage from the causes of loss identified in Section A.2.3.1, notwithstanding the undertaking of the Work. The Owner shall be responsible for all co-insurance penalties.

§ A.2.4 Optional Extended Property Insurance.

The Owner shall purchase and maintain the insurance selected and described below.

(Select the types of insurance the Owner is required to purchase and maintain by placing an X in the box(es) next to the description(s) of selected insurance. For each type of insurance selected, indicate applicable limits of coverage or other conditions in the fill point below the selected item.)

- ☐ **§ A.2.4.1 Loss of Use, Business Interruption, and Delay in Completion Insurance**, to reimburse the Owner for loss of use of the Owner's property, or the inability to conduct normal operations due to a covered cause of loss.
- ☐ **§ A.2.4.2 Ordinance or Law Insurance**, for the reasonable and necessary costs to satisfy the minimum requirements of the enforcement of any law or ordinance regulating the demolition, construction, repair, replacement or use of the Project.
- ☐ **§ A.2.4.3 Expediting Cost Insurance**, for the reasonable and necessary costs for the temporary repair of damage to insured property, and to expedite the permanent repair or replacement of the damaged property.
- ☐ **§ A.2.4.4 Extra Expense Insurance**, to provide reimbursement of the reasonable and necessary excess costs incurred during the period of restoration or repair of the damaged property that are over and above the total costs that would normally have been incurred during the same period of time had no loss or damage occurred.
- ☐ **§ A.2.4.5 Civil Authority Insurance**, for losses or costs arising from an order of a civil authority prohibiting access to the Project, provided such order is the direct result of physical damage covered under the required property insurance.
- ☐ **§ A.2.4.6 Ingress/Egress Insurance**, for loss due to the necessary interruption of the insured's business due to physical prevention of ingress to, or egress from, the Project as a direct result of physical damage.
- ☐ **§ A.2.4.7 Soft Costs Insurance**, to reimburse the Owner for costs due to the delay of completion of the Work, arising out of physical loss or damage covered by the required property insurance: including construction loan fees; leasing and marketing expenses; additional fees, including those of architects, engineers, consultants, attorneys and accountants, needed for the completion of the construction, repairs, or reconstruction; and carrying costs such as property taxes, building permits, additional interest on loans, realty taxes, and insurance premiums over and above normal expenses.

§ A.2.5 Other Optional Insurance.

The Owner shall purchase and maintain the insurance selected below.

(Select the types of insurance the Owner is required to purchase and maintain by placing an X in the box(es) next to the description(s) of selected insurance.)

[] **§ A.2.5.1 Cyber Security Insurance** for loss to the Owner due to data security and privacy breach, including costs of investigating a potential or actual breach of confidential or private information.
(Indicate applicable limits of coverage or other conditions in the fill point below.)

[] **§ A.2.5.2 Other Insurance**
(List below any other insurance coverage to be provided by the Owner and any applicable limits.)

Coverage

Limits

ARTICLE A.3 CONTRACTOR'S INSURANCE AND BONDS

§ A.3.1 General

§ A.3.1.1 Certificates of Insurance. The Contractor shall provide certificates of insurance acceptable to the Owner evidencing compliance with the requirements in this Article A.3 at the following times: (1) prior to commencement of the Work; (2) upon renewal or replacement of each required policy of insurance; and (3) upon the Owner's written request. An additional certificate evidencing continuation of commercial liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment and thereafter upon renewal or replacement of such coverage until the expiration of the periods required by Section A.3.2.1 and Section A.3.3.1. The certificates will show the Owner as an additional insured on the Contractor's Commercial General Liability and excess or umbrella liability policy or policies.

§ A.3.1.2 Deductibles and Self-Insured Retentions. The Contractor shall disclose to the Owner any deductible or self-insured retentions applicable to any insurance required to be provided by the Contractor.

§ A.3.1.3 Additional Insured Obligations. To the fullest extent permitted by law, the Contractor shall cause the commercial general liability coverage to include (1) the Owner, the Architect, and the Architect's consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions for which loss occurs during completed operations. The additional insured coverage shall be primary and non-contributory to any of the Owner's general liability insurance policies and shall apply to both ongoing and completed operations. To the extent commercially available, the additional insured coverage shall be no less than that provided by Insurance Services Office, Inc. (ISO) forms CG 20 10 07 04, CG 20 37 07 04, and, with respect to the Architect and the Architect's consultants, CG 20 32 07 04.

§ A.3.2 Contractor's Required Insurance Coverage

§ A.3.2.1 The Contractor shall purchase and maintain the following types and limits of insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Contractor shall maintain the required insurance until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, unless a different duration is stated below:
(If the Contractor is required to maintain insurance for a duration other than the expiration of the period for correction of Work, state the duration.)

§ A.3.2.2 Commercial General Liability

§ A.3.2.2.1 Commercial General Liability insurance for the Project written on an occurrence form with policy limits of not less than two million dollars (\$ 2,000,000) each occurrence, two million dollars (\$ 2,000,000) general aggregate, and two million dollars (\$ 2,000,000) aggregate for products-completed operations hazard, providing coverage for claims including

- .1 damages because of bodily injury, sickness or disease, including occupational sickness or disease, and death of any person;

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- .2 personal injury and advertising injury;
- .3 damages because of physical damage to or destruction of tangible property, including the loss of use of such property;
- .4 bodily injury or property damage arising out of completed operations; and
- .5 the Contractor's indemnity obligations under Section 3.18 of the General Conditions.

§ A.3.2.2.2 The Contractor's Commercial General Liability policy under this Section A.3.2.2 shall not contain an exclusion or restriction of coverage for the following:

- .1 Claims by one insured against another insured, if the exclusion or restriction is based solely on the fact that the claimant is an insured, and there would otherwise be coverage for the claim.
- .2 Claims for property damage to the Contractor's Work arising out of the products-completed operations hazard where the damaged Work or the Work out of which the damage arises was performed by a Subcontractor.
- .3 Claims for bodily injury other than to employees of the insured.
- .4 Claims for indemnity under Section 3.18 of the General Conditions arising out of injury to employees of the insured.
- .5 Claims or loss excluded under a prior work endorsement or other similar exclusionary language.
- .6 Claims or loss due to physical damage under a prior injury endorsement or similar exclusionary language.
- .7 Claims related to residential, multi-family, or other habitational projects, if the Work is to be performed on such a project.
- .8 Claims related to roofing, if the Work involves roofing.
- .9 Claims related to exterior insulation finish systems (EIFS), synthetic stucco or similar exterior coatings or surfaces, if the Work involves such coatings or surfaces.
- .10 Claims related to earth subsidence or movement, where the Work involves such hazards.
- .11 Claims related to explosion, collapse and underground hazards, where the Work involves such hazards.

§ A.3.2.3 Automobile Liability covering vehicles owned, and non-owned vehicles used, by the Contractor, with policy limits of not less than one million dollars (\$ 1,000,000) per accident, for bodily injury, death of any person, and property damage arising out of the ownership, maintenance and use of those motor vehicles along with any other statutorily required automobile coverage.

§ A.3.2.4 The Contractor may achieve the required limits and coverage for Commercial General Liability and Automobile Liability through a combination of primary and excess or umbrella liability insurance, provided such primary and excess or umbrella insurance policies result in the same or greater coverage as the coverages required under Section A.3.2.2 and A.3.2.3, and in no event shall any excess or umbrella liability insurance provide narrower coverage than the primary policy. The excess policy shall not require the exhaustion of the underlying limits only through the actual payment by the underlying insurers.

§ A.3.2.5 Workers' Compensation at statutory limits.

§ A.3.2.6 Employers' Liability with policy limits not less than five hundred thousand dollars (\$ 500,000) each accident, five hundred thousand dollars (\$ 500,000) each employee, and five hundred thousand dollars (\$ 500,000) policy limit.

(Paragraphs deleted)

§ A.3.3 Contractor's Other Insurance Coverage

§ A.3.3.1 Insurance selected and described in this Section A.3.3 shall be purchased from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Contractor shall maintain the required insurance until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, unless a different duration is stated below:

(If the Contractor is required to maintain any of the types of insurance selected below for a duration other than the expiration of the period for correction of Work, state the duration.)

§ A.3.3.2 The Contractor shall purchase and maintain the following types and limits of insurance in accordance with Section A.3.3.1.

(Select the types of insurance the Contractor is required to purchase and maintain by placing an X in the box(es) next to the description(s) of selected insurance. Where policy limits are provided, include the policy limit in the appropriate fill point.)

- ☐ **§ A.3.3.2.1** Property insurance of the same type and scope satisfying the requirements identified in Section A.2.3, which, if selected in this section A.3.3.2.1, relieves the Owner of the responsibility to purchase and maintain such insurance except insurance required by Section A.2.3.1.3 and Section A.2.3.3. The Contractor shall comply with all obligations of the Owner under Section A.2.3 except to the extent provided below. The Contractor shall disclose to the Owner the amount of any deductible, and the Owner shall be responsible for losses within the deductible. Upon request, the Contractor shall provide the Owner with a copy of the property insurance policy or policies required. The Owner shall adjust and settle the loss with the insurer and be the trustee of the proceeds of the property insurance in accordance with Article 11 of the General Conditions unless otherwise set forth below:
(Where the Contractor's obligation to provide property insurance differs from the Owner's obligations as described under Section A.2.3, indicate such differences in the space below. Additionally, if a party other than the Owner will be responsible for adjusting and settling a loss with the insurer and acting as the trustee of the proceeds of property insurance in accordance with Article 11 of the General Conditions, indicate the responsible party below.)
- ☐ **§ A.3.3.2.2 Railroad Protective Liability Insurance**, with policy limits of not less than (\$) per claim and (\$) in the aggregate, for Work within fifty (50) feet of railroad property.
- ☐ **§ A.3.3.2.3 Asbestos Abatement Liability Insurance**, with policy limits of not less than (\$) per claim and (\$) in the aggregate, for liability arising from the encapsulation, removal, handling, storage, transportation, and disposal of asbestos-containing materials.
- ☐ **§ A.3.3.2.4** Insurance for physical damage to property while it is in storage and in transit to the construction site on an "all-risks" completed value form.
- ☐ **§ A.3.3.2.5** Property insurance on an "all-risks" completed value form, covering property owned by the Contractor and used on the Project, including scaffolding and other equipment.
- ☐ **§ A.3.3.2.6 Other Insurance**
(List below any other insurance coverage to be provided by the Contractor and any applicable limits.)

Coverage

Limits

§ A.3.4 Performance Bond and Payment Bond

The Contractor shall provide surety bonds, from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located, as follows:

(Specify type and penal sum of bonds.)

Type

Penal Sum (\$0.00)

Payment Bond

100 percent (100%) of the Contract Amount

Performance Bond

100 percent (100%) of the Contract Amount

Payment and Performance Bonds shall be AIA Document A312™, Payment Bond and Performance Bond, or contain provisions identical to AIA Document A312™, current as of the date of this Agreement.

Init.

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User Notes:

(846424641)

ARTICLE A.4 SPECIAL TERMS AND CONDITIONS

Special terms and conditions that modify this Insurance and Bonds Exhibit, if any, are as follows:

A.4.1 Insofar as there is a deductible for any builder's risk insurance policies or coverage obtained by Owner, the Contractor shall be responsible for any losses or costs associated with such deductible(s).

A.4.2 Contractor's insurance to be provided under § A.3.2.2 above shall:

- (a) satisfy the requirements as stated in or referenced by the Supplementary Conditions;
- (b) be written on an occurrence, not claims made, form;
- (c) include endorsement indicating that coverage is primary and non-contributory;
- (d) include endorsement to preserve Governmental Immunity (sample attached).
- (e) include an endorsement that deletes any fellow employee exclusion;
- (f) Include additional insured endorsement for:
Johnson County, Iowa, including all its elected and appointed officials, all its employees and volunteers, all its boards, commissions and/or authorities and their board members, employees and volunteers.

GOVERNMENTAL IMMUNITIES ENDORSEMENT

1. Nonwaiver of Government Immunity. The insurance carrier expressly agrees and states that the purchase of this policy and the including of Johnson County, Iowa as Additional Insured does not waive any of the defenses of governmental immunity available to Johnson County, Iowa under Code of Iowa Section 670.4 as it now exists and as it may be amended from time to time.
2. Claims Coverage. The insurance carrier further agrees that this policy of insurance shall cover only those claims not subject to the defense of governmental immunity under the Code of Iowa Section 670.4 as it now exists and as may be amended from time to time.
3. Assertion of Government Immunity. Johnson County, Iowa shall be responsible for asserting any defense of governmental immunity, and may do so at any time and shall do so upon the timely written request of the insurance carrier. Nothing contained in this endorsement shall prevent the carrier from asserting the defense of governmental immunity on behalf of Johnson County, Iowa.
4. Non-Denial of Coverage. The insurance carrier shall not deny coverage under this policy and the insurance carrier shall not deny any of the rights and benefits accruing to Johnson County, Iowa under this policy for reasons of governmental immunity unless and until a court of competent jurisdiction has ruled in favor of the defense(s) of governmental immunity asserted by Johnson County, Iowa.
5. No Other Change in Policy. The insurance carrier and Johnson County, Iowa agree that the above preservation of governmental immunities shall not otherwise change or alter the coverage available under the policy.

**SECTION 03 5400
CAST UNDERLAYMENT**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Liquid-applied self-leveling floor underlayment.
 - 1. Use gypsum-based type at floor infill locations indicated for acoustic and wood underlayment.
 - 2. Use cementitious type at floor infill below tile.

1.02 RELATED REQUIREMENTS

- A. Section 01 7000 - Execution and Closeout Requirements: Alteration project procedures; selective demolition for remodeling.
- B. Section 06 1000 - Rough Carpentry: BASE BID for fiberboard (acoustic) and wood (finish) underlayments at floor infill.

1.03 PRICE AND PAYMENT PROCEDURES

- A. Alternates:
 - 1. See Section 01 2300 - Alternates for product alternates affecting this section.
 - 2. This section includes alternate item(s). See Section 06 1000 for base bid products.

1.04 REFERENCE STANDARDS

- A. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens).
- B. ASTM C1602/C1602M - Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete.
- C. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens).
- D. ASTM C472 - Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete.
- E. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- F. ICRI 310.2R - Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair.

1.05 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's data sheets documenting physical characteristics and product limitations of underlayment materials. Include information on surface preparation, environmental limitations, and installation instructions.
- C. Manufacturer's Instructions.

1.06 QUALITY ASSURANCE

- A. Applicator Qualifications: Company specializing in performing the work of this section, and approved by manufacturer.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Keep dry and protect from direct sun exposure, freezing, and ambient temperature greater than 105 degrees F.

1.08 FIELD CONDITIONS

- A. Do not install underlayment until floor penetrations and peripheral work are complete.
- B. Maintain minimum ambient temperatures of 50 degrees F 24 hours before, during and 72 hours after installation of underlayment.

- C. During the curing process, ventilate spaces to remove excess moisture.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Gypsum Underlayment:
1. ARDEX Engineered Cements; ARDEX K 22 F: www.ardexamericas.com/#sle.
 2. Hacker Industries, Inc; Firm-Fill Gypsum Concrete: www.hackerindustries.com/#sle.
 3. **BASIS OF DESIGN:** Maxxon Corporation; Gyp-Crete 2000/3.2K: www.maxxon.com/#sle.
 4. USG; Levelrock CSD Early Exposure Series Floor Underlayment: www.usg.com/#sle.
 5. Substitutions: See Section 01 6000 - Product Requirements.
- B. Sound Control Mat:
1. Arcosa Specialty Products, Inc: www.acgmaterials.com/#sle.
 2. Hacker Industries, Inc; Firm-Fill SCM 250: www.hackerindustries.com/#sle.
 3. Keene Building Products; Quiet Qurl 025: www.keenebuilding.com/#sle.
 4. **BASIS OF DESIGN:** Maxxon Corporation; Acousti-Mat 1/4 Premium: www.maxxon.com/#sle.
 5. USG; www.usg.com
 6. Substitutions: See Section 01 6000 - Product Requirements.
- C. Cementitious Underlayment:
1. ARDEX Engineered Cements; ARDEX V 1200: www.ardexamericas.com/#sle.
 2. Custom Building Products; CL-150 Self-Leveling Underlayment: www.custombuildingproducts.com/#sle.
 3. H.B. Fuller Construction Products, Inc; TEC Level Set 500 HF Self-Leveling Underlayment with TEC Multipurpose Primer: www.tecspecialty.com/#sle.
 4. LATICRETE International, Inc; LATICRETE NXT Level Plus with NXT Primer: www.laticrete.com/#sle.
 5. Maxxon Corporation; Level-One EZ: www.maxxon.com/#sle.
 6. Stauf USA LLC; SLC-540 Self Leveling Compound: www.staufusa.com/#sle.
 7. USG; Durock® Quik-Top Self-Leveling Underlayment: www.usg.com/#sle.
 8. W. R. Meadows, Inc; Floor-Top STG: www.wrmeadows.com/#sle.
 9. Substitutions: See Section 01 6000 - Product Requirements.

2.02 MATERIALS

- A. Cast Underlayments, General:
1. Comply with applicable code for combustibility or flame spread requirements.
 2. Provide certificate of compliance from authority having jurisdiction indicating approval of underlayment materials in the required fire rated assembly.
- B. Gypsum-Based Underlayment: Gypsum based mix, that when mixed with water in accordance with manufacturer's directions will produce self-leveling underlayment with the following properties:
1. Compressive Strength: Minimum 2500 pounds per square inch, tested per ASTM C472.
 2. Density: Maximum 130 pounds per cubic foot.
 3. Final Set Time: 1 to 2 hours, maximum.
 4. Thickness: 1-1/4 inch (including mat).
 5. Surface Burning Characteristics: Flame spread/Smoke developed index of 0/0 in accordance with ASTM E84.
- C. Cementitious Underlayment: Blended cement mix, that when mixed with water in accordance with manufacturer's directions will produce self-leveling underlayment with the following properties:
1. Compressive Strength: Minimum 4000 pounds per square inch after 28 days, tested per ASTM C109/C109M.
 2. Flexural Strength: Minimum 1000 psi after 28 days, tested per ASTM C348.
 3. Density: 125 pounds per cubic foot, nominal.

4. Final Set Time: 1-1/2 to 2 hours, maximum.
5. Thickness: Capable of thicknesses from feather edge to maximum 2 inches.
6. Surface Burning Characteristics: Flame spread/Smoke developed index of 0/0 in accordance with ASTM E84.

- D. Aggregate: Dry, well graded, washed silica aggregate, approximately 1/8 inch in size and acceptable to underlayment manufacturer.
- E. Water: ASTM C1602/C1602M; clean, potable, and not detrimental to underlayment mix materials.
- F. Primer: Manufacturer's recommended type.
- G. Joint and Crack Filler: Latex based filler, as recommended by manufacturer.
- H. Sound Control Mat: Sheet material, perimeter isolation strip, and tape; as recommended by the underlayment manufacturer.
 1. Thickness: 1/4 inch

2.03 MIXING

- A. Site mix materials in accordance with manufacturer's instructions.
- B. Add aggregate for areas where thickness will exceed 1/2 inch. Mix underlayment and water for at least two minutes before adding aggregate, and continue mixing to assure that aggregate has been thoroughly coated.
- C. Mix to self-leveling consistency without over-watering.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate surfaces are clean, dry, unfrozen, do not contain petroleum byproducts, or other compounds detrimental to underlayment material bond to substrate.

3.02 PREPARATION

- A. Concrete: Mechanically prepare steel troweled concrete to create a textured surface necessary to achieve the best bond; acceptable methods include bead blasting and scarifying. Do not use acid etching.
- B. Concrete: Prepare surfaces according to ICRI 310.2R, CSP 3.
- C. Wood: Install metal lath for reinforcement of underlayment.
- D. Remove substrate surface irregularities. Fill voids and deck joints with filler. Finish smooth.
- E. Vacuum clean surfaces.
- F. Prime substrate in accordance with manufacturer's instructions. Allow to dry.
- G. Close floor openings.
- H. Install sound control mat in accordance with manufacturer's instructions.

3.03 APPLICATION

- A. Install underlayment in accordance with manufacturer's instructions.
- B. Pump or pour material onto substrate. Do not retemper or add water.
 1. Pump, move, and screed while the material is still highly flowable.
 2. Be careful not to create cold joints.
 3. Wear spiked shoes while working in the wet material to avoid leaving marks.
- C. Place to indicated thickness, with top surface level to 1/8 inch in 10 ft.
- D. Place before partition installation.
- E. Where additional aggregate has been used in the mix, add a top layer of neat mix (without aggregate), if needed to level and smooth the surface.
- F. If a fine, feathered edge is desired, steel trowel the edge after initial set, but before it is completely hard.

3.04 CURING

- A. Once underlayment starts to set, prohibit foot traffic until final set has been reached.
- B. Air cure in accordance with manufacturer's instructions.

3.05 PROTECTION

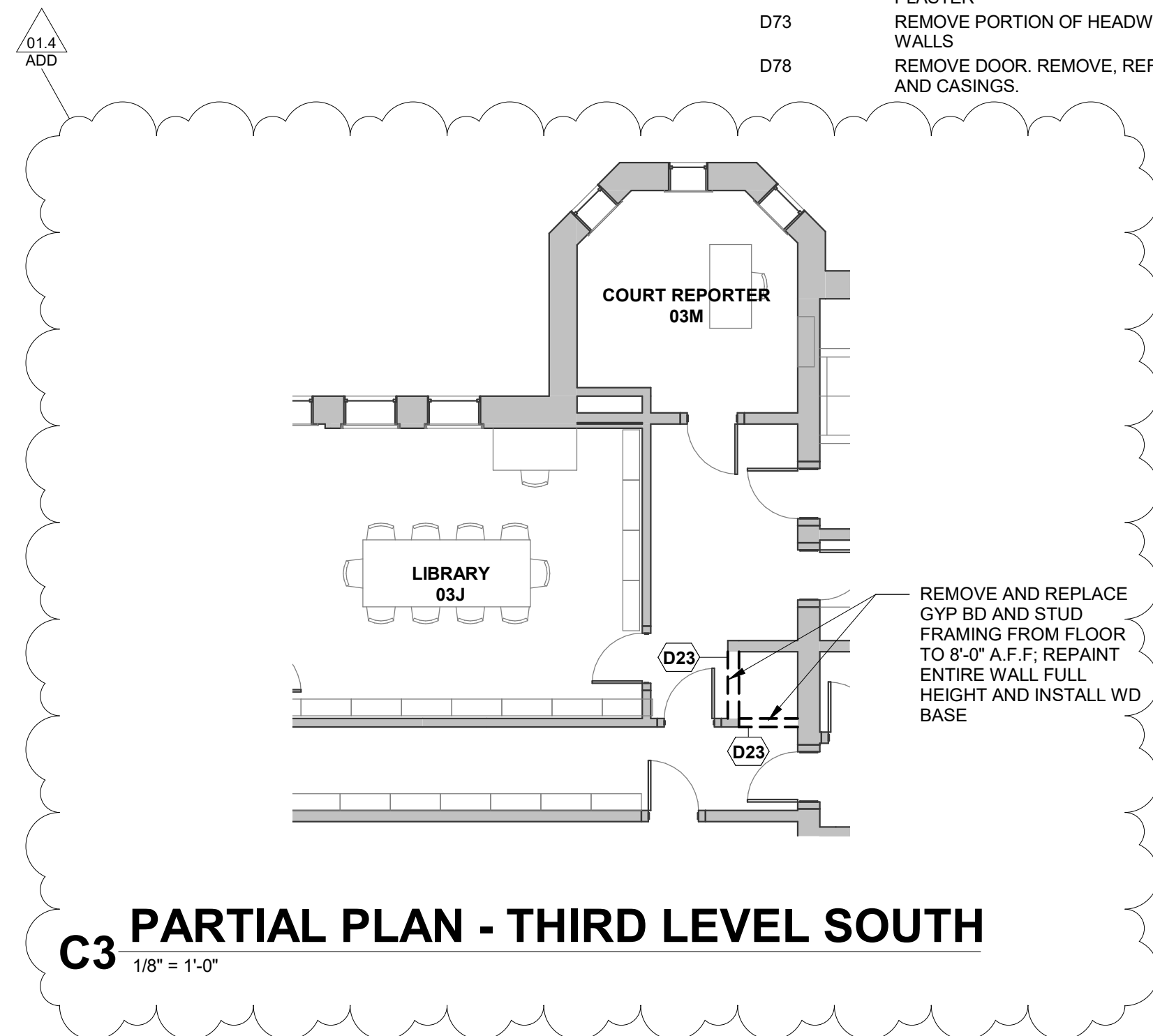
- A. Protect against direct sunlight, heat, and wind; prevent rapid drying to avoid shrinkage and cracking.
- B. Do not permit traffic over unprotected floor underlayment surfaces.

END OF SECTION

SECOND LEVEL GENERAL DEMOLITION NOTES

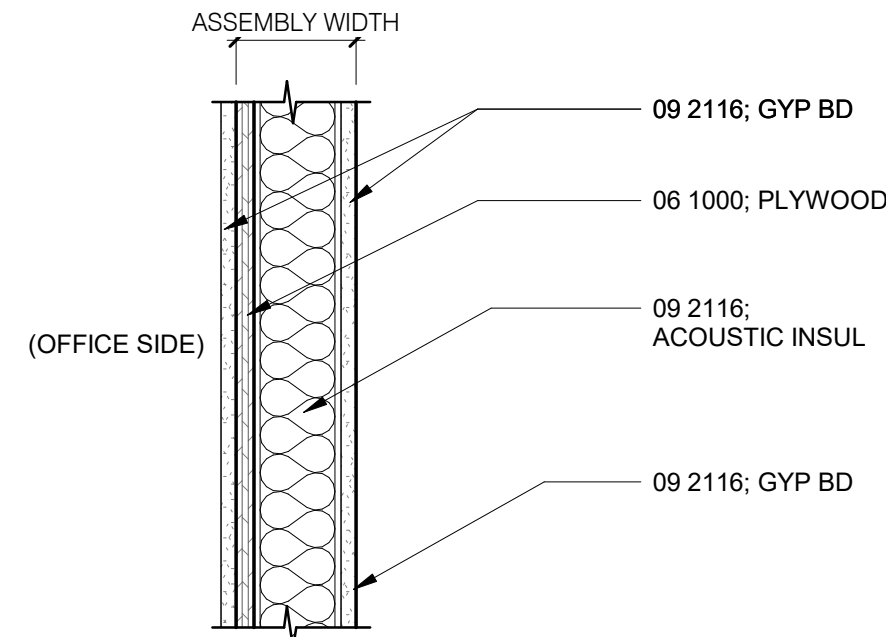
1. REMOVE THE EXISTING TILE AND GRID TO INSTALL NEW TILE AND GRID IN ALL AREAS INDICATED TO RECEIVE NEW CEILING TILE/GRID ON THE RCP AND/OR ROOM FINISH SCHEDULE.
2. INSTALL DUST PARTITIONS TO CONTAIN DUST BETWEEN WORK AREAS AND ADJACENT OCCUPIED AREAS.
3. REMOVE ALL MEPT SYSTEM COMPONENTS WITHIN AREAS OF THE WORK OF THIS CONTRACT THAT ARE NOTED AS ABANDONED OR TO BE ABANDONED BY THE WORK OF THIS CONTRACT.
4. CAREFULLY REMOVE AND PROTECT ALL ITEMS TO BE SALVAGED.
5. WHERE REMOVAL OF ITEMS REQUIRED BY THIS CONTRACT, INCLUDING PLUMBING, MECHANICAL, ELECTRICAL, AND TELECOM ITEMS, LEAVES HOLES IN THE FLOORING, FLOOR SLAB, WALLS OR ROOF, THE CONTRACTOR SHALL PATCH ALL HOLES LEFT BY THE REMOVAL OF ITEMS TO THE SAME CONDITION AS THE ADJACENT ASSEMBLY AND FINISH.
6. REMOVE AND DISPOSE OF ALL FURNITURE.
7. CAREFULLY REMOVE ALL WOOD TRIM NOTED TO BE SALVAGED, AND CATALOG LOCATION. CAREFULLY REMOVE FASTENERS FROM WOOD. STORE TRIM IN OWNER DESIGNATED ON-SITE LOCATION. REFINISH AND REINSTALL WOOD TRIM.
8. INSTALL DUST PARTITIONS TO CONTAIN DUST BETWEEN WORK AREAS AND ADJACENT OCCUPIED AREAS.
9. PROTECT EXISTING WOOD TRIM TO REMAIN

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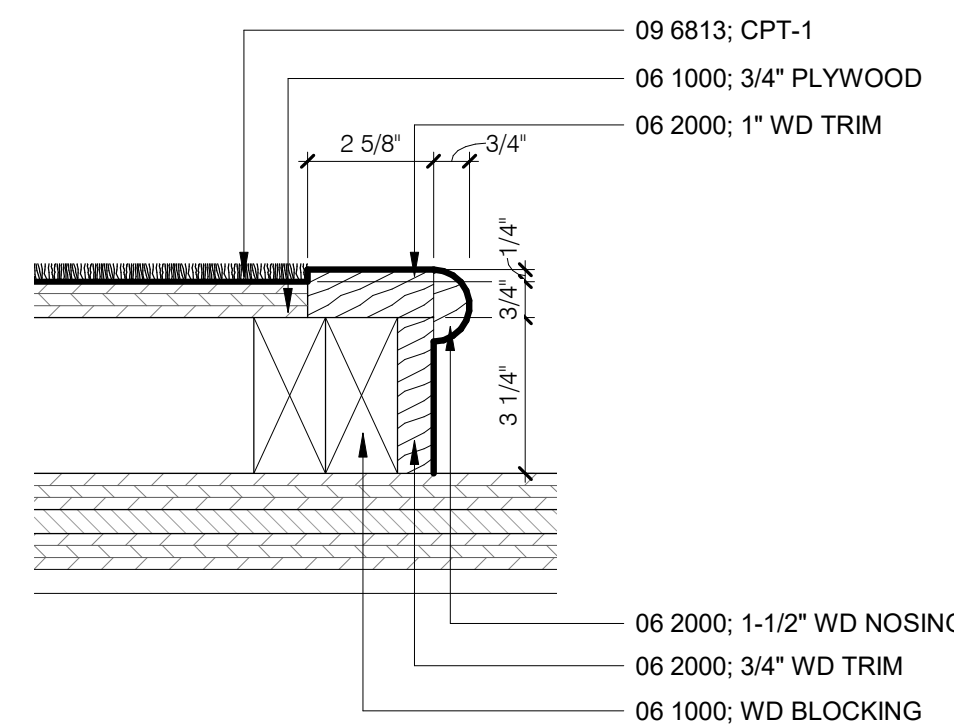


A4 SECOND LEVEL DEMOLITION PLAN

AD-102.4



L6.X METAL STUD ASSEMBLIES W/ 1 LAYER GYP BD AND 1 LAYER PLYWOOD AND ACOUSTIC INSULATION				
Mark	Stud Size	Assembly Width	UL Design Rating	Comments
L6.3	3 5/8"	5 5/8"		



12'-6" B.O. EXIST. PLASTER

2'-0" 5 1/2"

11'-6" B.O. BEAM

EXIST. WATER PIPES

10'-10" B.O. UNISTRUT

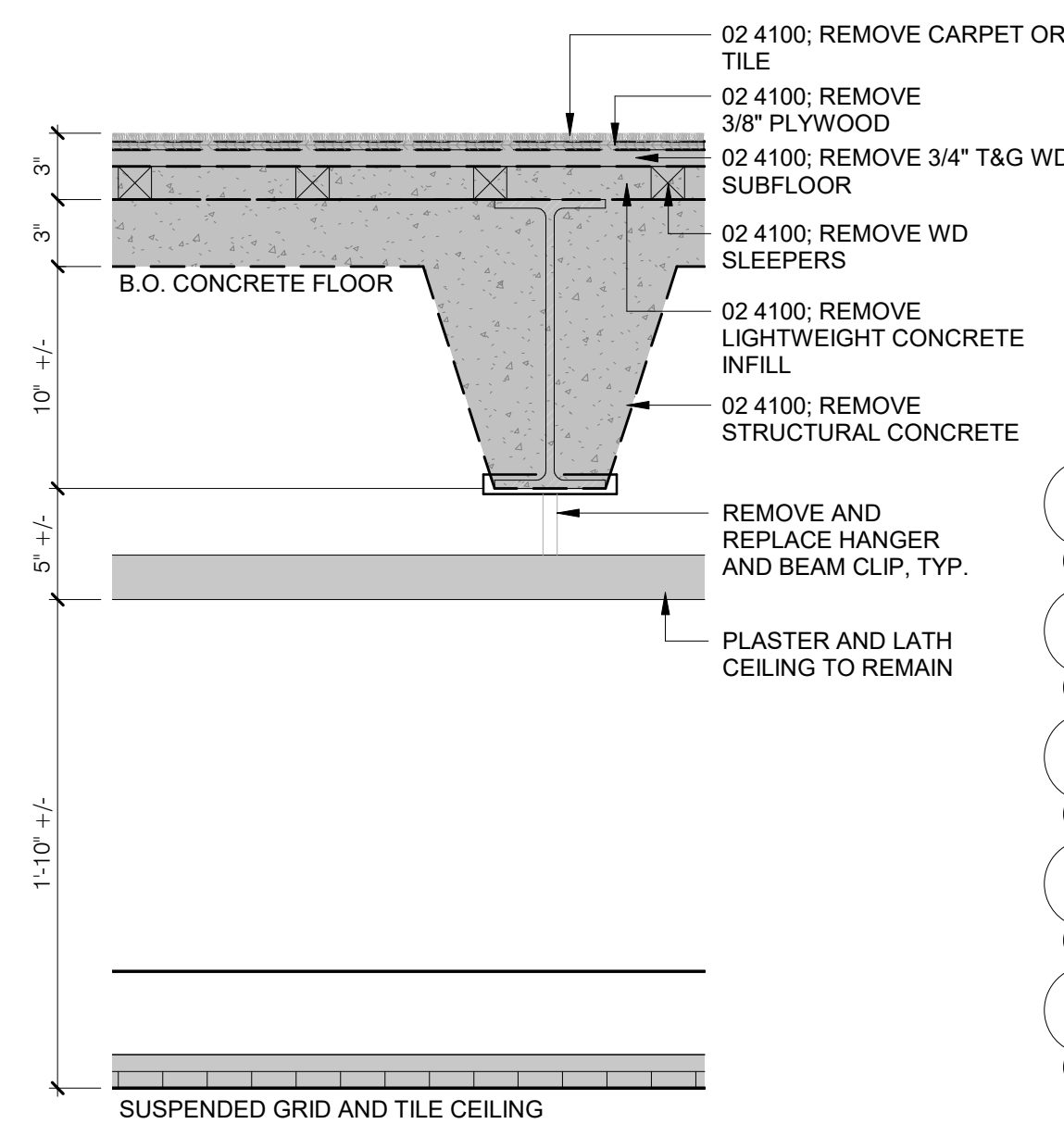
10'-6" B.O. CEILING TILE

09 2116; INFILL FRAMING GWB WHERE WALLS WERE REMOVED

09 5100; SATC

12 2400; ROLLER SHADE

B3 **SECT DTL @ JURY PLATFORM**
3" = 1'-0"



A4 SECT. DTL @ EXTERIOR WINDOW
1" = 1'-0"



01.4
ADD

A. ALL EXISTING WOOD TRIM SHALL BE REUSED, INCLUDING BASE, RUNNING TRIM, AND DOOR CASINGS; REFINISH ALL WOOD TRIM TO MATCH APPROVED STAIN COLOR. CONTRACTOR'S OPTION TO PROVIDE AND INSTALL NEW TO MATCH HISTORIC PROFILES; FINISH TO MATCH APPROVED STAIN COLOR.

C. REMOVE AND REINSTALL ALL ITEMS FROM WALLS FOR PLASTER REFINISHING AND PAINTING, INCLUDING COVER PLATES, VISUAL BOARDS, ETC.

D. REFINISH ALL EXISTING WOOD TRIM TO MATCH APPROVED STAIN COLOR AND FOR UNIFORM APPEARANCE; REMOVE AND REINSTALL ALL HARDWARE, ETC. TO ACHIEVE THE WORK.

1. REPAIR AND PATCH ALL DENTS, CHIPS, AND CRACKS IN EXISTING PLASTER WALL SURFACES AND INSTALL SKIM COAT, MIN. 3MM, FOR UNIFORM APPEARANCE. REMOVE AND REINSTALL ALL PLATES, DEVICES, AND FIXTURES TO ACHIEVE THE WORK.
2. REFINISH ALL WOOD TRIM TO MATCH ARCHITECT APPROVED SAMPLE FOR UNIFORM APPEARANCE; REMOVE AND REINSTALL ALL HARDWARE, ETC. TO ACHIEVE THE WORK
3. REMOVE ALL WOOD RUNNING TRIM AT NEW WALLS TO MATCH EXISTING PROFILES
4. PAINT EXPOSED SIDES OF GYPSUM HEADWALL
5. ADD GLAZING FILM OVER ALL EXTERIOR WINDOW GLAZING - SEE SECTION 08 8000
6. INSTALL CARPET STRIPS UNDER ALL WALLS AND CASEWORK
7. INSTALL UP TO 2" OF CEMENTITIOUS UNDERLAYMENT - SEE SECTION 03 5400

01.4
ADD



DOOR SCHEDULE NOTES:

1. NEW DOOR IN EXISTING METAL FRAME, PAINT FRAME
2. REINSTALL SALVAGED DOOR, FRAME, CASINGS AND HARDWARE, INSTALL NEW LEVER HARDWARE
3. REFINISH EXISTING DOOR, FRAME, TRANSOM, AND CASINGS TO MATCH ARCHITECT APPROVED STAIN COLOR
4. PROVIDE STILE AND RAIL WOOD DOORS AT RESTROOM COMPARTMENTS, PANEL TYPE B

TG = TRANSPARENT GLASS
PG = PATTERNED GLASS
SCG = SOUND CONTROL GLASS TRANSPARENT
PR = PAIR



1/4" = 1'-0"

SEE SCHEDULE



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Raker Rhodes Engineering

Structural Engineer
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319.333.7850

PROJECT NAME

**JOHNSON
COUNTY
COURTHOUSE
SECOND LEVEL
COURTROOM
RENOVATION**

OWNER

JOHNSON COUNTY
913 South Dubuque Street
Iowa City, Iowa 52240

PROJECT NO. 18.112

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SHEET NAME

FINISH SCHEDULE AND PLAN

SHEET NUMBER

A-601.4

- A. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION, MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
- B. ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DRAWINGS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH THE ARCHITECTURAL DRAWINGS.
- C. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

1. REMOVE FAN COIL UNIT FOR FLOOR REPLACEMENT. REMOVE MOUNTING HARDWARE AS REQUIRED. SAVE ALL EQUIPMENT FOR REINSTALLATION AFTER NEW FLOORING SYSTEM IS INSTALLED. REMOVE EXISTING PNEUMATIC CONTROLS.
2. REMOVE EXISTING VAV BOX AND ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROLS.
3. REMOVE FIXTURE AND ALL ASSOCIATED PIPING. CAP PIPING AT MAINS. REMOVE SANITARY PIPING TO BELOW FLOOR & CAP. CUT & PATCH FLOOR TO MATCH EXISTING.
4. REMOVE LOW RETURN GRILLE AND DUCTWORK IN WALL.
5. TAB CONTRACTOR TO VERIFY AHU AIRFLOW PRIOR TO ANY WORK TAKING PLACE. SUBMIT RESULTS TO DESIGN TEAM.
6. REMOVE AHU. REMOVE PIPING AND DUCTWORK AS SHOWN. REMOVE ALL PNEUMATIC CONTROLS. MODIFY EXISTING PAD/SUPPORTS AS REQUIRED FOR INSTALLATION OF NEW AHU.
7. REMOVE EXISTING PNEUMATIC CONTROLS.
8. REMOVE FAN COIL UNIT AND ASSOCIATED PNEUMATIC CONTROLS AND POWER. REMOVE PIPING BACK TO MAINS AND CAP.
9. REMOVE FAN COIL UNIT FOR FLOOR REPLACEMENT AND ASSOCIATED PNEUMATIC CONTROLS. PIPING AND WIRING SHALL BE EXTENDED TO NEW LOCATION.
10. REMOVE AND REINSTALL EXISTING DUCT AS REQUIRED FOR FLOOR STRUCTURE REPLACEMENT. SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
11. TEMPORARILY SUPPORT ALL MECHANICAL AND PLUMBING SYSTEMS AS REQUIRED FOR REMOVAL AND REPLACEMENT OF FLOOR SYSTEM ABOVE. REQUIRE PIPING EXISTING SYSTEMS AS REQUIRED. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
12. REMOVE EXISTING DUCTWORK OR PIPING BACK TO THIS POINT AND PREPARE FOR NEW CONNECTION.
13. REMOVE EXISTING SHAFT WALLS AS REQUIRED. OPENING SHALL BE USED AS PATHWAY FOR NEW EQUIPMENT INTO THE ATTIC. COORDINATE WORK WITH GENERAL CONTRACTOR.

This detailed mechanical floor plan for the 5th floor illustrates the layout of various mechanical components and their interconnections. Key features include:

- Equipment Rooms:** Several rooms are designated for mechanical equipment, including 'EX FCU' (Existing Fan Coil Unit) rooms, 'ER VAV' (Existing Variable Air Volume) rooms, and 'ER 28x12 EA' (Existing 28x12 Exhaust Air) rooms.
- Air Handling Units:** The plan shows 'ER 28x24 OA UP' (Existing 28x24 Outdoor Air Up) and 'ER 24x14 EA DN' (Existing 24x14 Exhaust Air Down) units, along with 'ER 28x12 EA' and 'ER 28x12 EA UP' units.
- Ductwork and Piping:** Dashed lines represent ductwork and piping, showing the flow of air and fluids throughout the floor.
- Callouts and Annotations:** Numbered callouts (1-9) identify specific equipment or areas. Annotations include 'ADD' (Addition) and 'ER' (Existing Room).
- Room Labels:** Various rooms are labeled, such as 'EX CWS' (Existing Cold Water Storage), 'EX CWR' (Existing Cold Water Return), 'EX HWS' (Existing Hot Water Storage), and 'EX HWR' (Existing Hot Water Return).

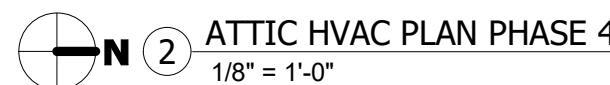
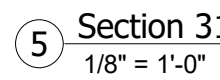
Floor plan of the second floor. The plan shows a large central hall with a staircase labeled "STAIR ACCESS TO ATTIC". To the right of the hall is a room labeled "ER 30"x24" EA UP/DN" and "ER 28"x24" OA UP/DN". A cloud-shaped area is highlighted with a circled "1" and an "ADD" label, indicating a proposed addition. Other rooms include "EX FCU" (Exhaust Fan Control Unit) and "EX FCU" (Exhaust Fan Control Unit). The plan also shows a "STAIR ACCESS TO ATTIC" and a "STAIR ACCESS TO ATTIC".

This mechanical layout drawing illustrates the HVAC system for the 3rd floor. Key components and connections include:

- ER 24"x30"** and **ER 30"x24" EA DN** units.
- ER 24"x28"** unit.
- EX 1-1/2" HWS**, **EX 1-1/2" HWR**, **EX 2" CWS**, and **EX 2" CWR** connections.
- STAIR ACCESS TO ATTIC FROM 3RD FLOOR**.
- EX 12"x18" EA**, **EX EA DN**, and **EX VAV** components.
- ER 1-1/2" HWS**, **ER 1-1/2" HWR**, **ER 2" CWS**, and **ER 2" CWR** connections.
- EX 16"x12" EA** and **EX 12"x12" OA** units.
- EX LOUVER**, **EX DAMPER**, and **EX DOME ENCLOSURE**.
- ER AHU** and **ER FAN** units.
- EX ERV** (Energy Recovery Ventilator) unit.

The drawing also shows various ductwork paths, including a large circular duct labeled **12"x12" OA**, and a vertical stack of ducts labeled **12"x12" OA**. A circular area is labeled **EX LOUVER**.

MD-101.4



1. REINSTALL EXISTING FCU.
2. ROUTE DOMESTIC WATER LINES DOWN THRU CHASE, ROUTE TO NEAREST EXISTING BRANCH LINES AND CONNECT TO EXISTING.
3. ROUTE VENT LINE TO NEAREST EXISTING AND CONNECT.
4. REINSTALL RELOCATED FCU. COORDINATE INSTALLATION WITH JURY STAND LOCATION.
5. EXTEND PIPING AND WIRING AS REQUIRED TO REACH NEW EXR FCU LOCATION.
6. REPLACE EXISTING PNEUMATIC CONTROLS WITH NEW DIGITAL TEMPERATURE CONTROLS.
7. 3/4" CD DOWN IN WALL. CONNECT TO EXISTING CD IN 1ST FLOOR CEILING.
8. ACCESS TO THE ATTIC IS LIMITED TO THE STAIRWAY FROM 3RD FLOOR AND THE EXISTING LOUVERS.
9. ROUTE DUCT DOWN THROUGH FLOOR TO 2ND FLOOR CEILING AND CAP.
10. SHAFT OPENING SHALL BE USED AS ACCESS FOR NEW EQUIPMENT INTO THE ATTIC. COORDINATE WORK WITH GENERAL CONTRACTOR.

ADD

PROJECT NAME
**JOHNSON
COUNTY
COURTHOUSE
SECOND LEVEL
COURTROOM
RENOVATION**

SHEET NUMBER

M-101.4

ENERGY RECOVERY VENTILATOR SCHEDULE - PROJECT 4

UNIT TAG			MANUFACTURER			MODEL			SUPPLY FANS				EXHAUST FANS				ENERGY RECOVERY				CHILLED WATER COIL										HOT WATER COIL										OUTSIDE & RETURN AIR FILTERS		MAIN UNIT ELECTRICAL				ELECTRIC PREHEAT COIL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
									MOTOR QUANTITY				MOTOR QUANTITY				TOTAL EFFECTIVENESS %		SUMMER				WINTER				TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS				FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY (MBH)		ENTERING DB		LEAVING DB		EWT/LWT		GPM		FLUID PD (FT)		ROWS		FLUID		UNIT TAG		TOTAL CAPACITY 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(MBH)		ENTERING DB		LEAVING DB	

NOTES:
1. PROVIDE ELECTRIC PREHEAT.
2. HOT WATER COIL SHALL BE PREHEAT.
3. CHILLED WATER COIL SHALL BE POST-COOLING.
4. ERV-2 PERFORMANCE BASED ON ERV-1 PERFORMANCE INSTALLED UNDER PREVIOUS PHASE. DUE TO LIMITED ACCESS TO THE ATTIC, ERV-2 SHALL BE KNOCKDOWN STYLE. REFER TO SHEET **M-101.4** FOR ADDITIONAL INFORMATION ON THE ACCESS ROUTE INTO THE ATTIC. A SINGLE KNOCKDOWN-STYLE ERV SHALL BE ACCEPTABLE IN LIEU OF TWINNED ERVS.

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ADD

FAN COIL UNIT SCHEDULE - PROJECT 4

UNIT TAG	MANUFACTURER	MODEL	DIMENSIONS (LxWxH)	WEIGHT	FILTER		FAN		CHILLED WATER COIL								HOT WATER COIL								ELECTRICAL			CHILLED WATER SUPPLY/RETURN (IN)	HEATING WATER SUPPLY/RETURN (IN)		
					DEPTH (IN)	MERV	CFM	ESP (IN)	MOTOR TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ENTERING DB/WB	LEAVING DB/WB	EWT/LWT	GPM	FLUID PD (FT)	ROWS	FLUID	TOTAL CAPACITY (MBH)	ENTERING DB	LEAVING DB	EWT/LWT	GPM	FLUID PD (FT)	ROWS	FLUID	MCA			MOCP	VOLTAGE/PHASE
FCU-01	EMI RETROAIRCO	CAW_08A8	24x24x14	70	-	-	300	-	-	5.20	5.20	72.0/60.1	55.9/53.6	44.0/54.0	1.0	1.6	-	WATER	10.0	70.0	98.9	180.0/140.0	0.5	0.5	1	WATER	1.2	1.5	120/1	3/4	3/4
FCU-04	DAIKIN	FCH204	17.3x36.0x12.4	76	"	8	300	0.5	MODULATING ECM	7.36	6.39	72.0/61.0	52.5/52.3	44.0/54.0	1.5	1.04	4	WATER	10.5	68.0	104.5	180.0/139.6	0.5	0.27	1	WATER	3.1	5.6	120/1	3/4	3/4

NOTES:

1. PROVIDE WITH FACTORY MOUNTED FUSED DISCONNECT.
2. UNITS SHALL BE PROVIDED WITH CONDENSATE OVERFLOW SWITCH.
3. PROVIDE ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS TO UNIT, FILTER, VALVES, AND CONTROLS. COORDINATE WITH ARCHITECT.
4. ALL UNITS SHALL BE PROVIDED WITH A CONDENSATE PUMP POWERED THROUGH THE UNIT.

INLINE PUMP SCHEDULE - PROJECT 4

UNIT TAG	MANUFACTURER	MODEL	SYSTEM	FLOWRATE (GPM)	TOTAL HEAD (FT)	CONNECTION SIZE	MOTOR NOL HP	MOTOR HP	VOLTAGE/PHASE
CP-1	GRUNDFOS	UPS 43-100 F	HOT WATER	10	25	1 1/2"	-	-	115V/1PH

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE - PROJECT 4

UNIT TAG	MANUFACTURER	MODEL	MATERIAL	SYSTEM TYPE	NECK SIZE	FACE SIZE	MAX N.C.	NOTE
S-1	PRICE	SPD	STEEL	SUPPLY	SEE PLANS	24"x24"	25	
R-1	PRICE	80	STEEL	RETURN	SEE PLANS	24"x24"	25	
E-1	PRICE	SPD	STEEL	EXHAUST	SEE PLANS	24"x24"	25	

ELECTRIC RADIANT CEILING PANEL SCHEDULE - PROJECT 4

UNIT TAG	MANUFACTURER	MODEL	WIDTH (IN)	LENGTH (IN)	CAPACITY (kW)	VOLTAGE/PHASE	FLA
ECP-1	INDEECO	AS2448	24	48	0.5	120V/1Ø	4.2

NOTES:
1. PROVIDE WITH REMOTE ROOM THERMOSTAT.

PLUMBING FIXTURE SCHEDULE - PROJECT 4

UNIT	TYPE	MANUFACTURER	MODEL	MATERIAL	COLOR	ADA	FIXTURE DESCRIPTION	MISCELLANEOUS	TRIM	APPROVED EQUALS
L-1	LAVATORY	KOHLER	KATHRYN K-2330	VITREOUS CHINA	WHITE	SEE ARCH.	23-7/8" x 15-5/8" x 6-1/4" RECTANGULAR UNDERMOUNT LAVATORY	COORDINATE WITH CASEWORK DIMENSIONS. SEE ARCHITECTURAL DRAWINGS.	LF-1	AMERICAN STANDARD, SLOAN
U-1	URINAL	KOHLER	BARDON K-4991-ET-0	VITREOUS CHINA	WHITE	SEE ARCH.	0.125 GPF, WALL HUNG, HIGH EFFICIENCY WASHOUT FLUSHING ACTION, INTEGRAL TRAP, VANDAL RESISTANT OUTLET STRAINER, 3/4 INCH TOP SPUD, TWO INCH THREADED OUTLET	-	UPV-1	AMERICAN STANDARD, SLOAN
WC-1	WATER CLOSET	KOHLER	KINGSTON K-4325-0	VITREOUS CHINA	WHITE	YES	1.28 GPF, WALL MOUNTED, SIPHON JET, 1-1/2" TOP SPUD. CHINA BOLT CAPS, ADA CAPABLE,	COORDINATE FLUSH VALVE STYLE WITH GRAB BARS. CONTROLS FOR FLUSH VALVES MOUNT ON THE WIDE SIDE OF THE TOILET, VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.	WCVF-1	AMERICAN STANDARD, SLOAN
WC-2	WATER CLOSET	KOHLER	KINGSTON K-4325-0	VITREOUS CHINA	WHITE	NO	1.28 GPF, WALL MOUNTED, SIPHON JET, 1-1/2" TOP SPUD. CHINA BOLT CAPS, ADA CAPABLE,	CONTROLS FOR FLUSH VALVES MOUNT ON THE WIDE SIDE OF THE TOILET, VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.	WCVF-1	AMERICAN STANDARD, SLOAN

PLUMBING FIXTURE TRIM SCHEDULE - PROJECT 4

UNIT	TYPE	MANUFACTURER	MODEL	COLOR	FIXTURE DESCRIPTION	MISCELLANEOUS	APPROVED EQUALS
LF-1	LAVATORY FAUCET	KOHLER	K-103636	CHROME	SENSOR OPERATED CENTER SET ELECTRONIC HAND WASHING FAUCET, 0.5 GPM LAMINAR FLOW VANDAL-RESISTANT AERATOR, HARD WIRED 120 VAC INPUT 24 VAC TRANSFORMER, 24V WIRING. 24V WIRING SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR.	SLOAN #B0T THERMOSTATIC MIXING VALVE OR EQUAL, METALLIC GRID STRAINER WITH 1-1/2" 17 GA CHROME PLATED P-TRAP, OFFSET TAILPIECE AS REQUIRED, TRU-BRO LAV VALVE, 1/4 TURN LOOSE KEY STOPS	ENGINEER APPROVED EQUAL
UFV-1	URINAL FLUSH VALVE	SLOAN	ECOS 8186-0.125	CHROME	0.125 GPF, FLEX TUBE DIAPHRAGM, BATTERY OPERATED SENSOR (4 AA BATTERIES), SEAT SOLDER ADAPTER, INTEGRAL SCREW DRIVER ANGLE STOP, FIXED METERING	-	NO APPROVED EQUAL
WCFV-1	WATER CLOSET FLUSH VALVE	SLOAN	G2 OPTIMA PLUS 8111-1.28	CHROME	1.28 GPF, DIAPHRAGM TYPE BATTERY OPERATED SENSOR, RANGE ADJUSTMENT SCREW, SEAT SOLDER ADAPTER, FREE SPINNING VANDAL RESISTANT STOP CAP AND VACUUM BREAKER	-	NO APPROVED EQUAL

PLUMBING FIXTURE CONNECTION SCHEDULE

ITEM	WASTE SIZE	VENT SIZE	WATER SIZE	
			HOT	COLD
WATER CLOSET(FLUSH VALVE)	4"	2"	-	1-1/2"
URINALS	2"	1-1/2"	-	1"
LAVATORIES	1-1/2"	1-1/2"	1/2"	1/2"
DRINKING FOUNTAIN	1-1/2"	1-1/2"	-	1/2"
FLOOR DRAINS/FLOOR SINKS	3"	1-1/2"	-	-
JANITORS SINK	3"	1-1/2"	3/4"	3/4"
TYPICAL WASTE STACK	4"	-	-	-
TYPICAL VENT STACK	-	3"	-	-

NOTES:

1. ALL SANITARY SEWER BELOW GRADE SHALL BE A MINIMUM OF 3" UNLESS OTHERWISE NOTED.
2. ALL VENT BELOW GRADE SHALL BE A MINIMUM OF 2" UNLESS OTHERWISE NOTED.
3. NOT ALL FIXTURES ON THIS SCHEDULE MAY BE USED.

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PROJECT NAME
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COURTHOUSE
SECOND LEVEL
COURTROOM
RENOVATION**

OWNER

JOHNSON COUNTY
913 South Dubuque Street
Iowa City, Iowa 52240

PROJECT NO. 18.112

ISSUE

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SHEET NAME

MECHANICAL SCHEDULES

SHEET NUMBER