

**JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE INTERIOR RENOVATION
ABATEMENT, REMEDIATION & SELECTIVE DEMOLITION
FOR
JACKSON COUNTY PUBLIC WORKS
INDEPENDENCE, MISSOURI**

**County Project No. 3147A
Bid No. PW-02-2012**

April 16, 2012

Prepared By:

**PROFESSIONAL SERVICE INDUSTRIES (PSI)
1211 West Cambridge Circle Drive
Kansas City, Kansas 66103**

&

**PIPER-WIND ARCHITECTS, INC.
2121 Central Street, Suite 143
Kansas City, Missouri 64108**

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PART 1 – ENVIRONMENTAL ABATEMENT/REMEDIATION

- 1.1 Fungal Remediation Work Plan
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 **ADVERTISEMENT FOR BIDS** 

**JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE
ABATEMENT, REMEDIATION & SELECTIVE DEMOLITION
JACKSON COUNTY, MISSOURI
COUNTY PROJECT NO. 3147A**

Jackson County will be accepting sealed proposals for **JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE, ABATEMENT, REMEDIATION, AND SELECTIVE DEMOLITION IN INDEPENDENCE, MISSOURI**, until 2:00p.m. C.D.S.T on May 3, 2012 at the office of the Director of Public Works, 303 W. Walnut, Independence, MO. The sealed proposals will be opened at 2:05 p.m. C.D.S.T., at the above noted date and location. **A MANDATORY PRE-BID MEETING WILL BE HELD ON THURSDAY APRIL 19TH, 2012 AT 10:00 A.M. C.D.S.T AT THE JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE AT 102 NORTH MAIN STREET, INDEPENDENCE, MISSOURI.**

PROJECT SCOPE

Selective demolition, abatement/remediation of fungal growth, avian feces, lead-based paint, and asbestos.

Proposals must be made on forms provided in the contract documents. Each Proposal must include: 1) completed bidding documents; 2) a cashier's check drawn on an acceptable bank, or an acceptable bidder's bond, in an amount not less than five (5) percent of the total amount of the bid; and, 3) a completed Compliance Report Form (page AA-1) that is current (issued within the last 12 months), and a Jackson County Certificate of Compliance attached. Failure to complete this report or attach a current certificate as outlined above may result in the rejection of bid. Additionally, please provide a list of your previously completed abatement projects related to work in historic buildings. For information contact the Compliance Review Officer at (816) 881-3302.

Bidding documents will be available April 17, 2012 from the Engineering Division, 303 W. Walnut, Independence, Missouri 64050, during regular business hours 7:30 a.m. to 4:00 p.m. for \$50.00 each set. Bidding documents can be mailed for an additional fee of \$15.00 each set. Checks, used for payment, shall be made in favor of "Manager of Finance, Jackson County, Missouri".

Bidders can view and print contract documents from the project website, www.jacksongov.org/publicworks bids at no charge. Any bidder using on-line documents **must check** the website periodically **for Notice of Addendums**.

Any Bidder who has special needs addressed by the Americans with Disabilities Act should notify the Project Manager or the Missouri Relay System for assistance.

Jackson County hereby notifies all bidders that it will affirmatively ensure that for any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation, and will not be discriminated against on the grounds of race, color, or national origin, in consideration for an award. For project information call the **Project manager, John McClernon, at (816) 881-4532**

SALES TAX

Jackson County is a tax -exempt entity under 144.062, Revised Statutes of Missouri and will issue the Contractor and Subcontractors an exemption certificate after award of contract. For more information contact Compliance Review Officer at (816) 881-3467.

WAGE LAW

The Contractor shall comply with all requirements of the prevailing wage law of the State of Missouri, Revised Statutes of Missouri, Sections 290.210 to 290340, including the latest amendments thereto.

Jackson County Historic Truman Courthouse Interior Renovation
Abatement, Remediation, and Selective Demolition
102 North Main Street, Independence, Missouri 64050

April 16, 2012
County Project No. 3147A
County Bid No. PW-02-2012

This contract has a new requirement related to paying wage rates for certain delivery truck drivers. Bidders are advised to read Jackson County Ordinance #4297 in the Wage Rate Section 00 50 00, pages WR-3, WR-4 & WR-5 of the Contract Documents, as well as Jackson County Code Section 1072, enacted by the Jackson County Legislature February 28, 2011, Page WR-6.

INSTRUCTIONS TO BIDDERS

B-1 **BIDS:** Each Bid shall be legibly written or printed in ink on the form provided with the contract documents. No alterations in Bid, or in the printed forms therefore, by erasures, interpolations, or otherwise will be acceptable unless each such alteration is signed or initialed by the bidder; if initialed, the owner may require the bidder to verify any alteration. No alteration in the Bid, or in the form, on which it is submitted, shall be made after the Bid has been submitted. All addenda to the Contract documents, properly signed by the bidder, shall accompany the Bid at the time of submittal.

Each Bid shall be sealed in the envelope supplied with the plans and specifications. The envelope has been marked with the address of the Director of Public Works, Jackson County, Missouri, and identified on the outside with the words "*FOR BIDDING PURPOSES – JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE, ABATEMENT, REMEDIATION & SELECTIVE DEMOLITION, County Project Number: 3147A.*"

No bidder may submit more than one Bid. Multiple Bids from one firm or enterprise, but presented under different names, will not be accepted.

B-2 **MANDATORY PRE-BID SITE MEETING:** A mandatory Pre-Bid meeting will be held on April 19, 2012 at 10:00 a.m. at the Jackson County Historic Truman Courthouse at 102 North Main Street, Independence, Missouri. The building will be accessible for an additional pre-bid walk-thru on April 24, 2012 from 8:00 a.m. to 12:00 p.m.

B-3 **BIDDER QUESTIONS/ADDENDA:** All questions shall be submitted in writing, with the final submittal accepted at 10:00 a.m. on April 25, 2012. Answers to questions will be provided via addenda issued by 5:00 pm on April 26, 2012.

B-4 **STATE SALES TAX EXEMPTION:** Jackson County is an exempt entity under 144.062, Revised Statutes of Missouri, and will issue the contractor and subcontractors an exemption certificate. Bidders are instructed not to include sales tax in their prices. (See ST-1-ST-3)

B-5 **BID GUARANTEE:** Each Bid shall be accompanied by a Bid Bond or cashier's check drawn on an acceptable bank or an acceptable bidder's bond, in an amount not less than five percent (5%) of the total amount of the base bid. Bids received without a Bid guarantee will not be considered.

The Bid Guarantee shall be made payable without condition to Jackson County, Missouri, hereinafter referred to as Owner. The Bid Guarantee may be retained by and shall be forfeited to the Owner as liquidated damages if the Bid is accepted and a Contract based thereon is awarded and the bidder should fail to enter into a Contract in the form prescribed, with legally responsible sureties, within ten (10) days after such award is made by the Owner.

B-6 **RETURN OF BID GUARANTEE:** The Bid Guarantee deposit of each unsuccessful bidder will be returned upon request, when his Bid is rejected. Similarly, the Bid Guarantee deposit of the bidder, to whom a Contract is awarded, will be returned when he executes a Contract and files a satisfactory performance bond. The Bid deposit of the second lowest responsible bidder may be retained for a period not to exceed sixty (90) days, pending the execution of the contract and bond by the successful bidder.

B-7 **WITHDRAWAL OF BID:** No bidder may withdraw his Bid for ninety (90) days after the date and hour set for the opening. A bidder may withdraw his Bid any time prior to expiration of the period during which Bids may be submitted by a written request signed in the same manner and by the same person who signed the Bid.

B-8 **ACCEPTANCE AND REJECTION OF BIDS:** The Owner reserves the right to accept the bid which, in its judgement, is the lowest and best bid; to reject any or all bids; and to waive irregularities or informalities in any bid. Bids received after the specified time of closing will be returned unopened.

B-9 **SIGNATURE OF BIDDERS:** Each bidder shall sign his Bid using his usual signature and giving his full business address. Bids by partnerships shall be signed with the partnership name followed by the signature and designation of one of the partners or other authorized representative. Bids by corporations shall be signed with the name of the corporation followed by the signature and designation of the president, secretary, or other person authorized to bind the corporation. The names of all persons signing should also be typed or printed below the signature. A bid by a person who affixes to his signature the word "president", "secretary", "agent", or other designation without disclosing his principal, may be held to be the bid of the individual signing. When requested by the Owner, satisfactory evidence of the authority of the person signing shall be furnished.

B-10 **INTERPRETATION OF CONTRACT DOCUMENTS:** If any person who contemplated submitting a bid is in doubt as to the true meaning of any part of the Plans, Specifications, or other proposed Contract documents, he may submit to the Architect a written request for an interpretation thereof. The person submitting the request shall be responsible for its prompt delivery. Interpretation of the proposed Contract documents will be made only by addendum. A copy of each addendum will be mailed or delivered to each person obtaining a set of Contract documents from the Director of Public Works. The Owner will not be responsible for any other explanations or interpretations of the proposed Contract documents. Bidder shall acknowledge receipt of Addenda on the Bid Form.

B-11 **LOCAL CONDITIONS AFFECTING WORK:** Each bidder shall be present for the mandatory on-site pre-bid, visit the site of the work and shall completely inform himself relative to construction hazards and procedure, labor, and all other conditions and factors, local and otherwise, which would affect prosecution and completion of the work and its cost. Such considerations shall include the arrangement and condition of existing structures and storage facilities, and for transportation, handling, and storage of materials and equipment. All such factors shall be properly investigated and considered in the preparation of the bidder's Bid. There will be no subsequent financial adjustment for lack of such prior information.

B-12 **INSURANCE:** Throughout the life of the contract, the contractor will be required to carry the types and amounts of insurance named in the Supplementary General Conditions and Special Conditions of the Contract.

B-13 **PAYMENTS:** Payment for all work performed under the proposed Contract will be made by the owner in the manner set forth in the Special Conditions of the Contract.

B-14 **TIME OF COMPLETION:** The time of completion is an essential part of the contract and it will be necessary for each bidder to satisfy the owner of his ability to complete the work within the allowable time set forth in the Bid. In this connection, attention is directed to the provisions

of the General Conditions and Special Provisions relative to delays, extensions of time, and liquidated damages.

B-15 QUALIFICATIONS OF BIDDERS: The Director of Public Works reserves the right to inspect and approve the bidder's equipment before the award of contract. Both the prime contractor and all potential subcontractors must comply with all Affirmative Action provisions of this contract. The Contractor's attention is directed to Article 1.17 of the Summary of General Requirement regarding subcontractors and to the Affirmative Action sheets given in the bid documents. The contractor shall identify all potential subcontractors on or before the bid opening, whether or not he eventually requests that they be approved, on this Affirmative Action sheet.

B-16 TAXES AND PERMITS: Attention is directed to the requirements of TC-1 and TC-2 regarding payment of taxes.

B-17 PERFORMANCE BOND: Each bidder to whom a contract is awarded will be required to furnish a performance bond to the owner in an amount equal to one hundred percent (100%) of the Contract price. The bond shall be executed on the form included in the Contract documents by a surety company authorized to do business in the state of Missouri and acceptable as surety to the Owner. Accompanying the bond shall be a "Power of Attorney" authorizing the attorney-in-face to bind the surety company and certified to include the date of the bond.

B-18 BID SUBMITTAL: The bidder's attention is called to the packet, marked "FOR BIDDING PURPOSES", which is included with the bound copy. All necessary forms for bid submittal are found therein. **USE THE PACKET FORMS FOR SUBMITTING BIDS** instead of the Bid forms bound with the Specifications.

B-19 BUSINESS EXPECTANCY: The lowest bidder shall not be considered as having received a business expectancy merely because of submitting the lowest bid. A business expectancy does not exist until the contract is awarded by the Jackson County Legislature.

B-20 WAGE LAW:
The Contractor shall comply with all requirements of the prevailing wage law of the State of Missouri, Revised Statutes of Missouri, Sections 290.210 to 290.340, including the latest amendments thereto.

B-21 NEW COUNTY ORDINANCE: Bidder's attention is directed to the new Jackson County Ordinance #4297 related to paying wage rates for certain delivery truck drivers. Bidders are advised to read the ordinance in the appendix of the Contract Documents.

B-22 SUBSTITUTIONS:

A. Prior to receipt of bids, should bidder wish to incorporate in Base Bid, brands or products other than those named in Drawings and Specifications, he shall submit, on the form included herein, a written request for substitution to Architect no later than seven (7) days prior to date bids are due. Architect will consider requests, and items approved will be listed in an Addendum issued to principal bidders.

B. By making requests for substitutions the bidder:

1. Represents that the bidder has personally investigated the proposed substitute product and determined that it is equal or superior in all respects to the product specified.
2. Represents that the bidder will provide the same warranty for the substitution that would be provided for that specified.
3. Will coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.

B-23 DISCUSSIONS AND NEGOTIATIONS

The County, in its sole discretion, may do any or all of the following:

- A. Evaluate bids and award a contract with or without discussions or negotiations with any or all of the bidders;
- B. Discuss and negotiate anything and everything with the apparent low bidder at any time.
- C. Request additional information from any or all bidders;
- D. Request that the apparent low bidder submit his schedule of values or costs for any item in the bid and discuss or negotiated a lesser price for this item.
- E. Request that the apparent low bidder enter into a period of discussion with the intent to value engineer, or find items of work which can be reduced in cost to the county and lower the bid price.

SUBSTITUTION REQUEST

TO: PIPER-WIND ARCHITECTS, INC.

SELECTIVE
ABAT

PROJECT: JACKSON COUNTY
HISTORIC TRUMAN COURTHOUSE
DEMOLITION,
EMENT & REMDIATION
INDEPENDENCE, MISSOURI
COUNTY PROJECT NO. 3147

<u>Section</u>	<u>Page</u>	<u>Paragraph</u>	<u>Description</u>
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PROPOSED SUBSTITUTION:

Attached data includes product description, specifications, drawings, photographs, performance and test data adequate for evaluation of request including identifying applicable data portions. Included is highlighted information of comparative product elements from both specified and proposed substitution.

Attached data also includes description of changes to Contract Documents and proposed substitution required for its proper installation.

Undersigned certifies following items, unless modified by attachments, are correct:

1. Proposed substitution does not affect dimensions shown on Drawings.
2. Undersigned pays for changes to building design, including engineering design, detailing, and construction costs caused by proposed substitution.
3. Proposed substitution has no adverse effect on other trades, construction schedule, or specified warranty requirements.
4. Maintenance and service parts available locally or readily obtainable for proposed substitution.

Jackson County Historic Truman Courthouse Interior Renovation
Abatement, Remediation, and Selective Demolition
102 North Main Street, Independence, Missouri 64050

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Undersigned further certifies function, appearance, and quality of proposed substitution are equivalent or superior to specified item.

Undersigned agrees, if this page is reproduced, terms and conditions for substitutions found in Bidding Documents apply to this proposed substitution.

Submitted by:

Name (Print)

Signature

For use by A/E Approved Approved as Noted
 Not Approved Received too late

Firm Name

By

Address

Date

City, State, Zip

Remarks

Date

Telephone

BID FORM

PROJECT

DATE:

JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE INTERIOR RENOVATION
ABATEMENT, REMEDIATION & SELECTIVE DEMOLITION
FOR JACKSON COUNTY PUBLIC WORKS
INDEPENDENCE, MISSOURI
PROJECT NO. 3147A

The Undersigned proposes to complete the abatement, remediation, and selective demolition work per the attached specifications and work plans, and to furnish all materials, machinery, tools, equipment, labor, transportation, and other means required to complete the project in accordance with the Drawings and Specifications, by this reference made a part thereof, prepared by PSI and Piper-Wind Architects, Inc. dated April 2012.

Bidder acknowledges receipt of the following Addenda: _____

The Bidder has made a careful examination of the site on which the Project is to be constructed, has become informed as to the kind of facilities required before and during the construction of the Project, and has become acquainted with the labor conditions which would affect the work.

The Bidder agrees that if his bid is accepted, the terms and conditions set out in these Contract Documents shall govern.

BID SCHEDULE

LUMP SUM

The Undersigned agrees to perform all work indicated on the Drawings and described in the Specifications and Addenda thereto, for the General Contract for this work for the sum of:

Dollars (\$ _____)

TIME OF COMPLETION

The Undersigned agrees, if awarded the contract, to complete work in sixty (60) calendar days. The Undersigned further agrees to commence work no later than seven (7) calendar days from date of receiving Notice to Proceed.

The Undersigned further agrees that, from the compensation otherwise to be paid, the Owner may retain the sum of \$700.00 for each day thereafter, Sundays and legal holidays excluded, that the Contract remains incomplete, which sum is agreed upon as the proper measure of liquidated damages which the Owner will sustain per diem by the failure of the undersigned to complete the work at the time stipulated, and this amount is not to be construed as in any sense a penalty.

CONTRACT SECURITY

The Undersigned agrees, if awarded the Contract, to execute and deliver to the Architect at time of Contract signing, Performance Bond and Payment Bond in amounts equal to 100% of the Contract Sum, as set forth in the Supplementary General Conditions of the Contract.

The Undersigned agrees that the Bid Security, in the amount of not less than 5% of the amount of the Base Bid, payable to the Owner, accompanying this bid is left in escrow with the Architect, that its amount is the measure of liquidated damages which the Owner will sustain by failure of the Undersigned to execute the above named contract and bonds, and that if the Undersigned defaults in executing the contract or furnishing the stated bonds within the time limit set forth above, their Bid Security shall become the property of the Owner.

DECLARATION

The Undersigned hereby declares that he has carefully examined the Invitation to Bid, the Instructions to Bidders, the Drawings, Specifications, and Work Plans, has visited the actual location of the work, has consulted his sources of supply, has satisfied himself as to all quantities and conditions and understands that in signing this Bid, he waives all right to plead any misunderstanding regarding the same.

The Undersigned understands that the Base Bid will determine the successful bidder without consideration for alternate bids, unit prices, and stated time of completion,(a value response for each Alternate and unit price is mandatory). The Bidder's competence, responsibility and any other factors of interest to the Owner will be a consideration in making the contract award.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids, or to accept or reject any portion of any bid, and it is understood that this bid may not be withdrawn during a period of ninety (90) days after the scheduled time for the receipt of bids.

The undersigned bidder hereby certifies: (a) that this bid is genuine and is not made in the interest of, or in the behalf of, any undisclosed person, firm or corporation, and is not submitted in conformity with any agreement of rules or any group, association, organization or corporation; (b) that he has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid; (c) that he has not solicited or induced any person, firm or corporation to refrain from bidding; and (d) that he has not sought by collusion to obtain for himself any advantage over any other bidder or over the owner.

SUPERVISION

The Undersigned agrees that he will provide experienced, competent supervision to the work, using his best skill and attention. He will carefully study and compare all drawings, specifications, and other instructions and report at once to the Architect any error, inconsistency or omission which he may discover.

Legal Name of Bidder

Address of Bidder

Authorized Officer

(seal if bid is by a corporation)

Title

BID FORM (continued)

ANTI-COLLUSION STATEMENT

STATE OF _____)
) ss.
COUNTY OF _____)

Printed Name of Authorized Person with Bidding Entity

being duly sworn, deposes and says that he/she is

_____, with
Title of Person Signing

Name of Bidding Organization

and that all statements made and facts set out in the proposal for the above project are true and correct, and that the bidder (the person, firm, association, or corporation making said bid) has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise competitive bidding in connection with such bid or any contract which may result from its acceptance.

_____, *Signature of Authorized Person with Bidding Entity* _____, *Date*

Signing representative further certifies that bidder is not financially interested in, or financially affiliated with, any other bidder for the above project.

By _____

By _____

By _____

Sworn to before me this _____ day of _____, 20____.

Notary Public

My commission expires _____.

BID FORM (continued)

LIST OF CONTRACTS ON HAND

Location	Type of Work / Contracting Agency	Contract Price	Date	% Complete

Attach additional sheets as required.

AFFIDAVIT

Comes now _____, of the
Printed Name of Affiant

_____,
Name of Bidding Entity

and upon his/her oath states that in connection with the bid for

_____,
Name of Project Being Bid Upon

that he/she has neither promised or paid any money in connection with the securing of this contract, and that no proceeds from the construction of the said project have been promised or will be paid to any individual or corporation. This affidavit is not construed to include payments for actual labor or materials furnished.

Further, Affiant saith not.

Signature of Affiant

Subscribed and sworn to before me, a Notary Public in and for Jackson County, Missouri,

this _____ day of _____, 20_____.

Notary Public

My commission expires _____.

ANNUAL WORKER ELIGIBILITY VERIFICATION AFFIDAVIT
 (for joint ventures, a separate affidavit is required for each business entity)

STATE OF _____)
) ss
 COUNTY OF _____)

On the _____ day of _____, 20____, before me appeared _____

Affiant name

personally known to me or proved to me on the basis of satisfactory evidence to be a person whose name is subscribed to this affidavit, who being by me duly sworn, stated as follows:

- I, the Affiant, am of sound mind, capable, of making this affidavit, and personally certify the facts herein stated, as required by Section 285.530, RSMo, to enter into any contract agreement with the county to perform any job, task, employment, labor, personal services, or any other activity for which compensation is provided, expected, or due, including but not limited to all activities conducted by business entities.

- I, the Affiant, am the _____ of _____, and I am duly
 title business name

authorized, directed, and/or empowered to act officially and properly on behalf of this business entity.

- I, the Affiant, hereby affirm and warrant that the aforementioned business entity is enrolled in a federal work authorization program operated by the United States Department of Homeland Security, and the aforementioned business entity shall participate in said program to verify the employment eligibility of newly hired employees working in connection with any services contracted by the Jackson County Missouri. I have attached documentation to this affidavit to evidence enrollment/participation by the aforementioned business entity in a federal work authorization program, as required by Section 285.530, RSMo.

- I, the Affiant, also hereby affirm and warrant that the aforementioned business entity does not and shall not knowingly employ, in connection with any services contracted by Jackson County, Missouri, any alien who does not have the legal right or authorization under federal law to work in the United States, as defined in 8 U.S.C. § 1324a(h)(3).

- I, the Affiant, am aware and recognize that, unless certain contract and affidavit conditions are satisfied pursuant to Section 285.525, RSMo, the aforementioned business entity may be held liable under Sections 285.525 through 285.550, RSMo, for subcontractors that knowingly employ or continue to employ any unauthorized alien to work within the state of Missouri.

- I, the Affiant, acknowledge that I am signing this affidavit as a free act and deed of the aforementioned business entity and not under duress.

 Affiant Signature

Subscribed and sworn to before me _____, _____, the day and year first above-written.
 city (or county) state

 Notary Public

My commission expires: _____

TAX CLEARANCE REQUIRED

No person, firm, or corporation, resident in Jackson County, or otherwise legally within the taxing jurisdiction of the County, shall be eligible to provide any goods, contractual services or anything covered by the County Purchasing Ordinance, unless said person, firm, or corporation is duly listed and assessed on the County tax rolls and is in no way delinquent on any taxes payable to the County.

Where any individual, firm or corporation is a resident of Jackson County, or it otherwise appears that such firm is legally within the taxing jurisdiction of the County, and has made an offer, bid, or quotation for any County purchase, or has submitted an application to be given an opportunity to make quotations for County purchases, the Purchasing Manager shall cause a search to be made of the County tax rolls to determine the eligibility of that person, firm, or corporation under this section.

When the lowest responsible bidder is ineligible under this section, the Purchasing Manager may notify the bidder and allow three (3) days for the bidder to correct the deficiency or pay up any delinquency involved. If the bidder fails, after such notice, to comply within three (3) days, the Purchasing Manager shall proceed as though the lowest responsible bidder who is eligible under this section had entered the lowest bid.

Jackson County Historic Truman Courthouse Interior Renovation
Abatement, Remediation, and Selective Demolition
102 North Main Street, Independence, Missouri 64050

April 16, 2012
County Project No. 3147A
County Bid No. PW-02-2012

Jackson County Courthouse
306 West Kansas Avenue
Independence, Missouri 64050

Gentlemen:

I do hereby certify that year 2011 Personal Property and/or Merchants and Manufacturers Tax for State, County, School and other purposes have been paid in the amount of \$_____. I further certify that assessment returns as required by law for year 2012 were filed on behalf of the undersigned, including therein a full, accurate and complete listing of all tangible personal property, subject to assessment in Jackson County, Missouri.

Authorized Signature of Bidder

Title

For:

Company Name

Street Address

City, State & Zip

Telephone #

Federal I.D. # _____

Subscribed and sworn to before me, a Notary Public in and for Jackson County, Missouri,

this _____ day of _____, 20_____.

Notary Public

My commission expires _____.

EQUAL EMPLOYMENT OPPORTUNITY

The Contractor's attention is directed to Chapter 296, Section 296.010 to Section 296.070, inclusive, Revised Statutes of Missouri, "Discriminatory Employment Practices," including the latest amendments thereto, and to the Jackson County Ordinances, adopted by Ordinance Nos. 11, 479, and 1068, which provide in part, as follows:

"All contracts for labor services, supplies, and construction wherein Jackson County is a party, whether negotiated or formally advertised, shall contain a nondiscrimination in employment clause which shall provide that the contractor in the performance of the contract will not discriminate against any employee or applicant for employment because of race, creed, color, sex, age or national origin. Actions of the contractor shall include but not be limited to the following: Employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship."

The Contractor agrees to comply in all respects with all statutory provisions and the County Ordinances.

LIST OF INTENDED SUBCONTRACTORS

Bidder Name: _____

Will subcontractors be used to complete the work? _____ Yes _____ No

If yes, complete this form and submit it with your bid.

Subcontractor No. _____

Name: _____

Address: _____

City & Zip Code: _____

Telephone No: _____ **Fax No:** _____

Description of work to be performed:

Dollar Amount: \$ _____ **DBE:** _____ **Yes** _____ **No**

Subcontractor No. _____

Name: _____

Address: _____

City & Zip Code: _____

Telephone No: _____ **Fax No:** _____

Description of work to be performed:

Dollar Amount: \$ _____ **DBE:** _____ **Yes** _____ **No**

(List of Subcontractors Continued)

Subcontractor No. _____

Name: _____

Address: _____

City & Zip Code: _____

Telephone No: _____ **Fax No:** _____

Description of work to be performed:

Dollar Amount: \$ _____

DBE: _____ **Yes** _____ **No**

Subcontractor No. _____

Name: _____

Address: _____

City & Zip Code: _____

Telephone No: _____ **Fax No:** _____

Description of work to be performed:

Dollar Amount: \$ _____

DBE: _____ **Yes** _____ **No**

COMPLIANCE REPORT FORM

DIRECTIONS FOR COMPLETION: Please fill out this form completely. If a question refers to 'past reports' and this is the first one, place '1st report' in the blank. If a question addresses an area which does not apply to your company, such as (subcontractors) place 'N/A' in the blank. PLEASE BE SURE THIS REPORT IS SIGNED AND DATED BELOW.

I. COMPANY DESCRIPTION:

- A. Name of Company _____
B. Street Address _____
City _____ State _____
Zip _____
C. Telephone Number _____ Area Code _____

II. COMPANY STATISTICS:

III.

- A. Total Number of Employees _____
B. Total Number of Employees Who Are: () () () () ()
Women Black Hispanic American Indian Oriental

Yes No

- III. Has your company advertised for applicants since your report? _____
If so, please attach a list of publications in which ads appeared, the date of advertising, and copies of such advertisements.
- IV. Has there been an effort since your last report to further orientate supervisors and key personnel to the spirit and intent of your program? _____
If so, please attach a narrative description of such efforts.
- V. Has there been any adjustments in your job prerequisites of your recruiting and intake procedures? _____
If so, please attach a detailed report of such changes.
- VI. Has any effort been made since your last report in disseminating your policy to all employees or in encouraging them to refer minority or female applicants? _____
If so, please attach a narrative description of such efforts.
- VII. Are you attaching another comment or concerns which you would like to have reviewed as a part of determining your compliance with your program? _____

List all minority contractors/suppliers (Minority/Women Owned Business Enterprises) with whom you have contracted during this reporting period.

NAME OF MBE/WBE: _____
ADDRESS: _____
TELEPHONE NUMBER: _____
PRODUCT, SERVICES, AREA OR SCOPE OF WORK: _____

Figures for Employment Analysis section of this report were obtained from:

- A. Available employment records _____
B. _____
C. _____

I certify that all answers and information herein contained are true to the best of my knowledge, and I understand that any misstatement of fact may subject this company to noncompliance procedures.

For information on filling out this form call:

Compliance Review Officer _____
(816) 881-3467 Sign _____ ature _____

Name and Title (please print)

Date

WAGE RATES

1. **GENERAL:**

This contract shall be based upon payment by the Contractor and his subcontractors of wage rates not less than the prevailing hourly wage rate for each craft or classification of workman engaged on the work as determined by the Industrial Commission of Missouri on behalf of the Department of Labor and Industrial Relations.

2. **WAGE LAW:**

The Contractor shall comply with all requirements of the prevailing wage law of the State of Missouri, Revised Statutes of Missouri, Sections 290.210 to 290.340, including the latest amendments thereto.

3. **PENALTY:**

The Contractor shall forfeit as a penalty to the County ten dollars (\$10.00) for each workman employed, for each calendar day, or portion thereof, that such workman is paid less than the said stipulated rate for any work done under this contract by the Contractor or by any of its subcontractors.

4. **WITHHOLDING PAYMENT:**

Under Section 290.250 of said law, the County has a duty to withhold and retain from payment, which is due to the Contractor under this contract all sums and amounts due and owing as a result of any violation of said laws.

5. **REQUIRED RECORDS:**

The Contractor and each subcontractor shall keep an accurate record within the state showing the names and occupations of all workmen employed, together with the actual wages paid to each workman. At all reasonable hours, such records shall be open to inspection by the representatives of the Industrial Commission of Missouri and the Owner. Said records shall be kept for a minimum of one (1) year after the project has been accepted and the affidavit received.

6. **NO ADJUSTMENT FOR CHANGES IN RATES:**

During the life of this contract, the prevailing hourly rate of wages is subject to change by the Department of Labor and Industrial Relations or by court decision, as provided by law. Any such change shall not be the basis of any claim by the Contractor against the Owner, nor will deductions be made by the Owner against sums due to the Contractor by reason of any such change.

7. **EXCEEDING RATES AND HOURS:**

The prevailing wage law does not prohibit payment of more than the prevailing rate of wages nor does it limit the hours of work which may be performed by any workman in a particular period of time.

8. **REQUIRED AFFIDAVIT:**

No final payment for work under this contract will be made by the County until it has received from each Contractor and subcontractor an affidavit stating that each has fully complied with the provisions and the requirements of said law.

9. PREVAILING WAGES:
The following prevailing wage rate determination made by the Industrial Commission of Missouri is reproduced verbatim and is applicable to this contract.
10. POSTING:
Throughout the life of this contract, a copy of the wage determination Exhibit "A" and the rules promulgated by the industrial Commission of Missouri, shall be displayed in a conspicuous place on the project under a heading of NOTICE, with the heading in letters at least one inch high.
11. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT (452 U.S.C. SECT. 329): The Contractor is required to comply with Section 103 of the above Act.
12. Only Missouri laborers and laborers from nonrestrictive states are allowed by law to be employed on Missouri's public works projects when the unemployment rate exceeds 5% for two consecutive months. (See Sections 290.550 through 290.580 RSMO.) It is the Contractors responsibility to check the website to determine if the unemployment has exceeded 5% for the past two months and is in effect.

When the statute is in effect it will remain in effect as long as this notice is posted. For questions call (573) 751-3403 Extension 0,

You may view the Frequently Asked Questions at

http://www.dolir.mo.gov/ls/fag/fag_PublicWorksEmployment.asp, or view the statute 290.550 - 290.580 RSMo, at <http://www.moga.state.mo.us/statutes/C290.HTM>.

Nonrestrictive states are as follows: Arkansas, Colorado, Georgia, Hawaii, Indiana, Kansas, Kentucky, Louisiana, Nebraska, New Hampshire, Maryland, Michigan, Minnesota, New Mexico, New Jersey, New York, North Carolina, Ohio, Oregon, Rhode Island, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia and Wisconsin.

Additionally the Contractor may contact the Jackson County Department of Public Works to determine if the statute is in effect.

13. The contractor is required to comply with County Ordinance No. 4297 and Section 1072 of the Jackson County Code related to paying wage rates for certain delivery truck drivers. The Ordinance is in an attached appendix for contractors' information. For more information call Thomas Wyrsh, Compliance Officer, at 881-3467. Or email at TWyrsh@jacksongov.org

Jackson County Historic Truman Courthouse Interior Renovation
Abatement, Remediation, and Selective Demolition
102 North Main Street, Independence, Missouri 64050

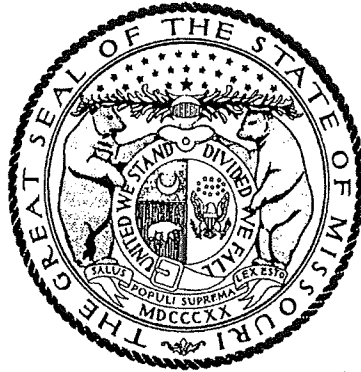
April 16, 2012
County Project No. 3147A
County Bid No. PW-02-2012

Exhibit "A" Wage Determination

Missouri

Division of Labor Standards

WAGE AND HOUR SECTION



JEREMIAH W. (JAY) NIXON, Governor

Annual Wage Order No. 18

Section 048

JACKSON COUNTY

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by

Carla Buschjost, Director
Division of Labor Standards

This Is A True And Accurate Copy Which Was Filed With The Secretary of State: March 10, 2011

Last Date Objections May Be Filed: April 11, 2011

Prepared by Missouri Department of Labor and Industrial Relations

Building Construction Rates for
JACKSON County

REPLACEMENT PAGE

Section 048

OCCUPATIONAL TITLE	** Date of Increase	*	Basic Hourly Rates	Over-Time Schedule	Holiday Schedule	Total Fringe Benefits
Asbestos Worker	11/11		\$34.04	52	53	\$23.13
Boilermaker			\$32.31	57	7	\$23.95
Bricklayers-Stone Mason			\$33.40	58	39	\$16.15
Carpenter	6/11		\$36.05	63	68	\$13.05
Cement Mason			\$30.28	65	4	\$15.50
Electrician (Inside Wireman)			\$33.83	13	72	\$15.25 + 10%
Communication Technician			USE ELECTRICIAN (INSIDE WIREMAN) RATE			
Elevator Constructor		a	\$40.860	26	54	\$23.255
Operating Engineer						
Group I	6/11		\$35.70	85	4	\$13.76
Group II	6/11		\$34.89	85	4	\$13.76
Group III	6/11		\$29.34	85	4	\$13.76
Group III-A	6/11		\$33.55	85	4	\$13.76
Group IV						
Group V	6/11		\$30.94	85	4	\$13.76
Pipe Fitter	6/11		\$39.58	2	33	\$15.65
Glazier	6/11		\$30.47	88	32	\$15.43
Laborer (Building):						
General	6/11		\$25.45	30	4	\$13.45
First Semi-Skilled	6/11		\$25.85	30	4	\$13.45
Second Semi-Skilled	6/11		\$26.25	30	4	\$13.45
Lather			USE CARPENTER RATE			
Linoleum Layer & Cutter	6/11		\$33.82	46	67	\$13.05
Marble Mason	9/11		\$31.70	25	4	\$14.56
Millwright			USE CARPENTER RATE			
Iron Worker	6/11		\$28.50	50	4	\$24.30
Painter			\$28.31	37	4	\$13.37
Plasterer	6/11		\$24.89	68	4	\$18.16
Plumber	6/11		\$36.80	45	33	\$20.41
Pile Driver			USE CARPENTER RATE			
Roofer	6/11		\$32.25	95	2	\$13.66
Sheet Metal Worker	7/11		\$38.39	17	22	\$17.04
Sprinkler Fitter			\$33.65	14	4	\$17.20
Terazzo Worker	9/11		\$31.70	25	4	\$14.56
Tile Setter	9/11		\$31.70	25	4	\$14.56
Truck Driver-Teamster						
Group I			\$30.09	100	4	\$10.90
Group II			\$30.09	100	4	\$10.90
Group III			\$30.29	100	4	\$10.90
Group IV			\$30.29	100	4	\$10.90
Traffic Control Service Driver			\$15.35	48	49	\$2.71
Welders-Acetylene & Electric		*				

Fringe Benefit Percentage is of the Basic Hourly Rate

Attention Workers: If you are not being paid the appropriate wage rate and fringe benefits contact the Division of Labor Standards at (573) 751-3403.

**Annual Incremental Increase

*SEE FOOTNOTE PAGE

Building Construction Rates for JACKSON County Footnotes

Section 048

OCCUPATIONAL TITLE	** Date of Increase	Basic Hourly Rates	Over-Time Schedule	Holiday Schedule	Total Fringe Benefits

* Welders receive rate prescribed for the occupational title performing operation to which welding is incidental.

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

a - Vacation: Employees over 5 years - 8%; Employees under 5 years - 6%

**JACKSON COUNTY
OVERTIME SCHEDULE - BUILDING CONSTRUCTION**

FED: Minimum requirement per Fair Labor Standards Act means time and one-half (1 ½) shall be paid for all work in excess of forty (40) hours per work week.

NO. 2: Means the maximum of eight (8) hours shall constitute a day's work beginning at 8:00 a.m. to 12:00 noon, 12:30 p.m. to 4:30 p.m. The maximum work week shall be forty (40) hours beginning Monday at 8:00 a.m. and ending Friday at 4:30 p.m. Because of traffic, parking or other circumstances, the hours of work on any project may be any continuous 8½ hours period (8 hours of work plus 30 minutes for lunch) between 7:00 a.m. and 4:30 p.m. When circumstances warrant and when it is mutually beneficial and agreed to, the Employer may institute a work week consisting of four (4) consecutive ten (10) hour days, between the hours of 7:00 a.m. and 6:00 p.m. Monday through Thursday, with one-half (½) hour allowed for a lunch period each day. Friday may be used as a make-up day. After ten (10) hours in a workday, or forty (40) hours in a workweek, overtime shall be paid at a rate of one and one-half (1½) times the regular rate of pay. Overtime performed Monday through Saturday shall be paid at the rate of one and one-half (1½) times the regular rate of pay. Sundays and recognized holidays shall be paid at the double (2) time rate of pay. Labor Day shall be paid at triple (3) time. Shift work may be performed at the option of the Contractor. However, whenever shift work is performed it must cover a period not less than (5) consecutive working days. The day shift shall work a regular eight (8) hours shift as outlined above. Employees working a second shift shall receive an additional \$0.25 above the regular hourly rate and perform seven and one-half (7½) hours work for eight (8) hours pay. Third shift employees shall be paid an additional \$0.50 above the regular hourly rate and work seven (7) hours for eight (8) hours pay. In the event a first shift is not required, a second and third shift employee shall receive an additional 15% of the base rate and receive pay for actual hours worked.

NO. 13: Means a regular workday shall consist of eight (8) hours between 8:00 a.m. and 4:30 p.m. Forty (40) hours, within five (5) days -- Monday through Friday inclusive -- shall constitute the regular workweek. The Employer may alter the above stated hours by two (2) hours for an early starting and quitting time only, not to exceed eight (8) hours of work in any one day. When job conditions dictate and as required by the customer, the Employer shall be allowed to establish a four (4) day, ten (10) hour per day work week. This work week is defined as Monday through Thursday, with a Friday make-up day. The normal work day under a ten (10) hour four (4) day work week shall be from 7:00 a.m. to 6:00 p.m., with a one hour starting variance. The make-up day of Friday shall be instituted for specific reasons such as loss of production due to weather and/or holidays. All hours worked in excess of ten (10) hours per day or forty (40) hours per week or hours worked outside the normal work week shall be paid at the applicable overtime rate. The first four (4) hours of overtime after the normal workday, each day Monday through Friday and the first ten (10) hours of overtime on Saturdays shall be paid for at one and one-half (1½) times the regular straight time rate of pay. All other work performed outside of the regularly scheduled working hours and outside of the first ten (10) hours worked on Saturdays shall be paid for at double (2) the regular straight time rate of pay. Sundays and the recognized holidays shall be paid for at double (2) the regular straight time rate of pay, if worked. When so elected by the contractor, multiple shifts of at least five (5) days duration may be worked. When two (2) or three (3) shifts are worked: The first shift (day shift) shall be worked between the hours of 8:00 a.m. and 4:30 p.m. Workmen on the "day shift" shall receive eight (8) hours pay at the regular hourly rate for eight (8) hours work. The second shift (swing shift) shall be worked between the hours of 4:30 p.m. and 12:30 a.m. Workmen on the "swing shift" shall receive eight (8) hours pay at the regular hourly rate plus 10% for seven and one-half (7 ½) hours work. The third shift (graveyard shift) shall be worked between the hours of 12:30 a.m. and 8:00 a.m. Workmen on the "graveyard shift" shall receive eight (8) hours pay at the regular hourly rate plus 15% for seven (7) hours work. A lunch period of thirty (30) minutes shall be allowed on each shift. All overtime work required after the completion of a regular shift shall be paid at one and one-half (1½) times the "shift" hourly rate.

NO. 14: Means eight (8) hours per day shall constitute a day's work. The regular starting time shall be 8:00 a.m., and the regular quitting time shall be 4:30 p.m.; lunch time shall be twelve (12) o'clock noon to 12:30 p.m. The regular starting time may, by mutual consent of employees on the job site, and the employer, be between 7:00 a.m. and 9:00 a.m. with appropriate adjustments made to the regular quitting time and lunch time. All time worked before the regular starting time and after the regular quitting time, Monday through Friday, shall be paid at the rate of time and one-half (1½). All work commencing with the beginning of the established work day on Saturday shall be paid at the rate of time and one-half (1½). All work commencing with the beginning of the established work day on Sundays and/or Holidays shall be paid at the rate of double (2) time.

**JACKSON COUNTY
OVERTIME SCHEDULE - BUILDING CONSTRUCTION**

NO. 17: Means the regular working day shall consist of eight (8) hours of labor between 7:00 a.m. and 3:30 p.m. and the regular work week shall consist of five (5) consecutive eight (8) hour days of labor beginning on Monday and ending with Friday of each week. All full-time or part-time labor performed during such hours shall be recognized as regular working hours and paid for at the regular hourly rate. Except as otherwise provided, all work performed outside of regular working hours during the regular work week, shall be at double (2) times the regular rate. Working hours may be varied by two (2) hours. When circumstances warrant and when it is mutually beneficial and agreed to by interested parties, the Employer may institute a work week consisting of four (4) consecutive ten (10) hour days, between the hours of five (5) a.m. and six (6) p.m., Monday through Thursday, with one-half (1/2) hour allowed for a lunch period each day. Friday may be used as a make-up day. The make-up day will be voluntary, and a decision not to work may not be held against the employee. When working four (4) ten (10) hour day's overtime will be paid at the time and one-half (1½) rate for the eleventh (11th) and twelfth (12th) hour, all other work will be paid at the double (2) time rate of pay. The first two (2) hours of overtime, Monday through Friday, and the first eight (8) hours on Saturday shall be at time and one-half (1½) for all work. All other overtime shall be at double (2) time. The first two (2) hours of overtime must be concurrent with the regular work day, two (2) hours prior to or following the regular work day are at time and one-half (1½). The regular workday (as previously defined) on Saturday is paid at time and one-half (1½). Work performed outside of the regular Saturday work day is at double (2) time. All work performed on recognized holidays, or days locally observed as such, and Sundays shall be paid at the double (2) time rate of pay.

NO. 25: Means regular working hours of eight (8) hours shall constitute a working day between the hours of 8:00 a.m. to 4:30 p.m. in a forty (40) hour working week of Monday through Friday. Employment on Saturday, Sunday and legal holidays, and employment before or after the regular working hours shall be considered overtime. Employment on Saturday, Sunday and legal holidays shall be paid for at twice (2) the regular hourly rate. Employment from 4:30 p.m. to 12:00 midnight, Monday through Friday, shall be paid for at one and one-half (1½) times the regular hourly rate. From 12:00 midnight until 8:00 a.m. on any day shall be paid for at twice (2) the regular hourly rate.

NO. 26: Means that the regular working day shall consist of eight (8) hours worked between 6:00 a.m., and 5:00 p.m., five (5) days per week, Monday to Friday, inclusive. Hours of work at each jobsite shall be those established by the general contractor and worked by the majority of trades. (The above working hours may be changed by mutual agreement). Work performed on Construction Work on Saturdays, Sundays and before and after the regular working day on Monday to Friday, inclusive, shall be classified as overtime, and paid for at double (2) the rate of single time. The employer may establish hours worked on a jobsite for a four (4) ten (10) hour day work week at straight time pay for construction work; the regular working day shall consist of ten (10) hours worked consecutively, between 6:00 a.m. and 6:00 p.m., four (4) days per week, Monday to Thursday, inclusive. Any work performed on Friday, Saturday, Sunday and holidays, and before and after the regular working day on Monday to Thursday where a four (4) ten (10) hour day workweek has been established, will be paid at two times (2) the single time rate of pay. The rate of pay for all work performed on holidays shall be at two times (2) the single time rate of pay.

NO. 30: Means Monday through Sunday shall constitute the work week. Regular starting time shall be 8:00 A.M., except when the work week is scheduled as a week with starting time advanced or delayed. Starting time may be advanced or delayed by the employer up to two (2) hours from the regular starting time. Eight (8) hours shall constitute the work day. All work performed prior to or after the regular eight (8) hour work day, as described above, and all work performed on Saturday shall be paid at time and one-half (1½) the regular rate. In the event that a scheduled eight (8) hour work day is missed (not to include holidays) because of events out of the control of the contractor, then that missed work day may be made up at straight time the following Saturday. It is recognized that not all employees working on a Saturday make-up day will have worked the same number of hours during the regular work week. It is further recognized that any work after the forty (40) hours in a week must be paid at time and one-half (1½). Saturday make-up day shall not be used to make up for time lost due to recognized holidays. The employer may establish a 4-10's schedule on projects (4 days with 10 hours per day). If using a 4-10's schedule, a Friday make-up day is allowed. If using a 4 (10) schedule, any work more than ten (10) hours in a day or forty (40) hours in a work week shall be paid at the time and one-half (1½) rate. Friday make-up day shall not be used to make up for time lost due to recognized holidays. All work performed on Sundays or holidays shall be paid at the double (2) time rate.

**JACKSON COUNTY
OVERTIME SCHEDULE - BUILDING CONSTRUCTION**

NO. 37: The Employer may choose, at his discretion, to work five eight hour days or four ten hour days with a Friday make-up day, Monday through Friday at straight time. Overtime shall be paid after eight (8) hours when working "five eights" and after ten hours when working "four tens". All work performed on Sundays and recognized holidays shall be paid for at the rate of double (2) time. All Saturday work shall be paid for at the rate of time and one-half (1½) the regular wage rate. All night work during the regular work week other than the above-mentioned days shall be paid for at the rate of time and one-half (1½) the regular wage scale until midnight and double (2) time after midnight except make-up time will be allowed under the following condition: In the event of inclement weather on exterior projects which prevents working the full regular eight (8) hour day, forty (40) hour work week schedule, a Saturday make-up day can be granted. Then said work on Saturday shall be paid at the straight time rate of pay up to a maximum total of forty (40) hours per week.

NO. 45: Means eight (8) hours shall constitute a day's work, beginning at 8:00 a.m. and ending at 4:30 p.m. The regular work week shall be forty (40) hours, beginning Monday, 8:00 a.m. and ending at 4:30 p.m. Friday. Because of traffic, parking and other circumstances, the hours of work on any project may begin as early as 6:00 a.m. with eight (8) hours worked between 6:00 a.m. and 4:30 p.m. When circumstances warrant and when it is mutually beneficial and agreed to, the employer may institute a work week consisting of four (4) consecutive ten (10) hour days, between the hours of 7:00 a.m. and 6:00 p.m., Monday through Thursday. Friday may be used as a make-up day. After ten (10) hours in a workday, or forty (40) hours in a workweek, overtime shall be paid at a rate of one and one-half (1½) times the regular rate of pay. All overtime Monday through Saturday shall be paid at the rate of time and one-half (1½) the regular rate of pay. Sunday and recognized holidays shall be paid at double (2) time. Labor Day shall be paid at triple (3) time. Shift work may be performed at the option of the Contractor. However, whenever shift work is performed it must cover a period not less than (5) consecutive working days. The day shift shall work a regular eight (8) hours shift as outlined above. The hourly rate for second shift (seven and one-half hours worked for eight hours paid) shall be twenty-five cents (\$0.25) over and above the hourly rate. The hourly rate for third shift (seven hours worked, eight hours paid) shall be fifty cents (\$0.50) above the hourly rate. If no first shift is worked, second and third shift employees shall receive an additional fifteen percent (15%) over and above the hourly rate for actual hours worked.

NO. 46: Means the regular work day shall be eight (8) hours from 6:00 a.m. to 6:30 p.m. Starting time may be between 6:00 a.m. and 10:00 a.m. The regular work week shall be forty (40) hours, beginning between 6:00 a.m. and 10:00 a.m. on Monday and ending between 2:30 p.m. and 6:30 p.m. on Friday. All hours in excess of the regular work day and work week shall be considered overtime. Overtime on days recognized as regular work days and on Saturday shall be paid for at the rate of time and one-half (1½) the regular rate. Sunday and recognized holidays shall be paid for at the rate of double time (2) for time worked. The Employer may establish a work week consisting of four (4) days, Monday through Thursday, each day consisting of ten (10) hours at straight time rate of pay. The 4-10's must run for a period of at least four (4) days.

NO. 48: Means the regularly scheduled work week shall be five (5) consecutive days, Monday through Friday or Tuesday through Saturday. Eight (8) hours shall constitute a day's work. Starting time shall not be earlier than 7:00 a.m. nor later than 10:00 a.m. Forty (40) hours shall constitute a week's work. Overtime at the rate of time and one-half (1½) will be paid for all work in excess of forty (40) hours in any one work week. On the Monday through Friday schedule, all work performed on Saturday will be time and one-half (1½) unless time has been lost during the week, in which case Saturday will be a make up day to the extent of the lost time. On the Tuesday through Saturday schedule, all work performed on Monday will be time and one-half (1½) unless time has been lost during the week, in which case Monday will be a make-up day to the extent of the lost time. Any work performed on Sunday will be double (2) time. If employees work on any of the recognized holidays, they shall be paid time and one-half (1½) their regular rate of pay for all hours worked.

NO. 50: Means eight (8) hours constitute a normal day's work Monday through Friday. Any time worked over eight (8) hours will normally be paid at time and one-half (1½) except for exclusions stated in some following additional sentences. The Employer, at his discretion, may start the work day between 6:00 a.m. and 9:00 a.m. Any schedule chosen shall be started at the beginning of the work week (Monday) and used for at least five days. Work may be scheduled on a four (4) days a week (Monday through Thursday) at ten (10) hours a day schedule. If such a schedule is employed, then Friday may be used as a make-up day when time is lost due to inclement weather. Time and one-half (1½) shall be paid for any work in excess of eight (8) hours in any regular work day Monday through Friday unless working 4-10's, then time and one-half (1½) after ten (10) hours. All work performed on Saturday will be time and one-half (1½). Double (2) time shall be paid for all work on Sundays and recognized holidays.

**JACKSON COUNTY
OVERTIME SCHEDULE - BUILDING CONSTRUCTION**

NO. 52: Means the regular workweek shall consist of five (5) eight (8) hour days, Monday through Friday. The regular workday shall consist of a eight (8) hour period, to be worked between the agreed upon starting time, and ending no later than 4:30 p.m. The agreed upon starting time shall be any time between the hours of 6:00 a.m. and 8:00 a.m. The option exists for the employer to use a four (4) day, ten (10) hour work week. Days worked shall be Monday through Thursday or Tuesday through Friday. If the job requires men on duty all five (5) days, then part of the crew may work the first four (4) days and the remainder of the crew may work the last four (4) days. Hours each day shall be from 7:00 a.m. to 5:30 p.m. Interested party's on the project must agree to this clause before it may be used. Once this clause has been put into effect, it shall remain as long as the majority of the Employees on the project and the Employer agree to keep it. The four (4) day clause shall not be used to circumvent a Holiday. Except as otherwise provided, all work performed outside the regular working hours and performed during the regular work week (Monday through Friday) shall be at the following rates of pay:

Holidays-New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Christmas Day (or days observed as such) shall be recognized as Holidays that shall be paid at two (2) times the regular rate of pay.

Labor Day-No work shall be performed on Labor Day except in special cases of emergency. Rate of pay shall be at three (3) times the regular rate of pay.

Overtime-Work performed outside of the regular work day (the regular work day shall consist of an eight (8) hour period, to be worked between the agreed upon starting time, and ending not later than 4:30 p.m. The agreed upon starting time shall be any time between the hours of 6:00 a.m. and 8:00 a.m., by mutual consent of the interested party's.), shall be:

- A. Hours worked Monday through Friday, the first two (2) hours of overtime will be paid at time and one-half (1½). All other overtime will be paid at the double (2) time rate.
- B. The first ten (10) hours worked on Saturday will be paid at time and one-half (1½), with all other hours to be paid at the double (2) time rate.
- C. Sundays and Holidays (except Labor Day) shall be paid at the double (2) time rate.

NO. 57: Means eight (8) hours per day shall constitute a day's work and forty (40) hours per week, Monday through Friday, shall constitute a week's work. The regular starting time shall be 8:00 a.m. The above may be changed by mutual consent of authorized personnel. When circumstances warrant, the Employer may change the regular workweek to four (4) ten-hour days at the regular time rate of pay. It being understood that all other pertinent information must be adjusted accordingly. All time worked before and after the established workday of eight (8) hours, Monday through Friday, all time worked on Saturday, shall be paid at the rate of time and one-half (1½) except in cases where work is part of an employee's regular Friday shift. All time worked on Sunday and recognized holidays shall be paid at the double (2) time rate of pay.

NO. 58: Means eight (8) consecutive hours, between 6:00 a.m. and 5:30 p.m., shall constitute a days work. Five (5) days work, Monday through Friday, shall constitute a normal work week. Work performed in excess of eight (8) hours per day or eight hours beyond normal starting time for that project excluding lunch Monday through Friday, and all work performed on Saturday, shall be paid for the rate of time and one-half (1½). When Sundays and recognized holidays are worked, the worker(s) shall be paid at the rate of double (2) time. Work may be scheduled on a four (4) days a week (Monday through Thursday) at ten (10) hours a day schedule at straight time. A Friday make-up day is available if time is lost due to inclement weather and at least sixteen (16) hours, but not more than thirty (30) hours, were worked during the week.

NO. 63: Means eight (8) hours shall constitute the regular work day between time that may be advanced or delayed by two (2) hours on either side of 8:00 AM. The Employer may establish a work week consisting of four (4) days, Monday through Thursday, each day consisting of ten (10) hours straight time. The four (4) tens (10s) must run for a period of at least four (4) days, Monday through Thursday. All work on Friday on a four (4) tens (10s) project will be paid at the rate of time and one-half (1½). All work performed on Saturday shall be paid at time and one-half (1½). All work performed on Sundays and recognized holidays must be paid at double (2) time. All work performed prior to or after the regular eight (8) hour work day, or ten (10) hour work day, as described above shall be paid at time and one-half (1½) the regular rate.

**JACKSON COUNTY
OVERTIME SCHEDULE - BUILDING CONSTRUCTION**

NO. 65: Means Monday through Sunday shall constitute the work week. Regular starting time shall be 8:00 a.m., with one half hour for lunch between three and one-half (3½) and five (5) hours after starting time. The starting time may be advanced by two (2) hours or delayed one (1) hour by the employer from the regular starting time. All work performed before the advanced starting time and during the half hour lunch shall be paid at the overtime rate of time and one-half (1½). Work performed outside these hours shall be paid at the overtime rate of time and one-half (1½), except as provided otherwise below. All work performed on Sundays or recognized holidays shall be paid at the double (2) time rate. When the start time is delayed past 9:00 a.m., the employee's pay shall start at 9:00 a.m. and all time, after the normal quitting time (5:30 p.m.), shall be paid at the overtime rate. Eight (8) hours shall constitute the work day. All work performed prior to or after the regular eight (8) hour work day, as described above, and all work performed on Saturday shall be paid at time and one-half (1½) the regular rate. In the event that a scheduled eight (8) hour work day is missed (not including recognized holidays) because of inclement weather, then that missed work day may be made up at straight time on the following Saturday. It is recognized that not all employees working on a Saturday make-up day will have worked the same number of hours during the regular work week. It is further recognized that any work after forty (40) hours must be paid at time and one-half (1½). The employer may establish a 4-10's schedule on projects (4 days with 10 hours per day at straight time). In order to use the 4-10's schedule, the employer must schedule the 4-10's for a minimum of one (1) week. If using a 4-10's schedule, a Friday make-up day is allowed.

NO. 68: Means Monday through Sunday shall constitute the work week. Regular starting time shall be 8:00 a.m., with one half hour for lunch between three and one-half and five hours after starting time. The starting time may be advanced or delayed by the employer up to one hour from the regular starting time. All work performed before the advance starting time and during the half hour lunch shall be paid at the overtime rate of time and one-half (1½). Work performed outside these hours shall be paid at the overtime rate of time and one-half (1½), except as provided otherwise below. All work performed on Sundays or holidays shall be paid at the double (2) time rate. Eight (8) hours shall constitute the work day. All work performed prior to or after the regular eight (8) hour work day, as described above, and all work performed on Saturday shall be paid at time and one-half (1½) the regular rate, except as hereinafter described. In the event that a scheduled eight (8) hour work day is missed (not including recognized holidays) because of inclement weather, then that missed work day may be made up at straight time on the Saturday in the week of the pay period. It is recognized that not all employees working on a Saturday make-up day will have worked the same number of hours during the regular work week. It is further recognized that any work after forty (40) hours must be paid at time and one-half (1½). The employer may establish a 4-10's schedule on projects (4 days with 10 hours per day at straight time). In order to use the 4-10's schedule, the employer must schedule the 4-10's for a minimum of one (1) week. If using a 4-10's schedule, a Friday make-up day is allowed.

NO. 85: Means the work week shall be Monday through Sunday. Eight (8) hours shall constitute a day's work to begin between 6:00 a.m. and 9:00 a.m. and end between 2:30 p.m. to 5:30 p.m. Employees required to work during their lunch period shall receive the overtime rate. Employees shall receive time and one-half (1½) for all time they are required to work prior to their normal starting time or after eight (8) hours or normal quitting time Monday through Friday, or all day on Saturday. If an Employer has started the work week on a five day, eight hours a day schedule, and due to inclement weather misses any time, then he may switch to a nine or ten hours a day schedule, at straight time, for the remainder of that work week in order to make up for the lost time (10-hour make-up day). All work over ten (10) hours a day or over forty (40) hours a week must be paid at time & one-half (1½). Sundays and recognized holidays shall be paid at the double (2) time rate of pay. A contractor may alter the regular work week to four (4) ten (10) hour days at straight time rate of pay. To do this the scheduled 4-10's must be worked at least one full week and the regular workweek shall be Monday through Thursday with Friday being a make-up day at straight time for days missed in the regular workweek due to inclement weather. If 5-8's are being worked, Saturday may be used as a make-up day at straight time if inclement weather prevents work during the normal work week.

NO. 88: Means the regular work week shall consist of five (5) eight (8) hour days, 8:00 a.m. to 4:30 p.m., Monday through Friday, except when the work week is scheduled as a 4-10's week or as a week with start time advanced or delayed as described below. The starting time may be advanced or delayed by one hour on either side of 8:00 a.m. The advanced or delayed starting time must run for a period of at least five (5) days. The Employer may establish a work week consisting of four (4) days, during the regular work week, each day consisting of ten (10) hours at straight time. The 4-10's must run for a period of at least four (4) days. Time and one-half (1½) shall be paid for any work in excess of eight (8) hours in any regular work day Monday through Friday (or ten hours in a 4-10's week), the first eight (8) hours of a Saturday, and it shall be at time and one-half (1½) for the Friday and Saturday following Thanksgiving. Double (2) time shall be paid for the following time worked on Sunday, New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day, as well as any work in excess of eight (8) hours on a Saturday and the Saturday of a three-day weekend (except the Saturday following Thanksgiving).

**JACKSON COUNTY
OVERTIME SCHEDULE - BUILDING CONSTRUCTION**

NO. 95: Means a regular workday shall consist of eight and one-half (8½) hours elapsed time, including one-half hour for lunch. The crew starting times shall be flexible within the period of daylight to 8:00 a.m. Any work performed over ten (10) hours of elapsed time per day including one-half hour for lunch and/or any work performed over forty (40) hours at the straight time rate in one week shall be paid at time and one-half (1½) the straight time rate. Saturday shall be a voluntary make-up day at straight time at the discretion of the contractor and with the consent of the employees. Sunday and recognized holidays shall be paid for at double (2) time.

NO. 100: Means eight (8) hours shall constitute a day's work, and five (5) continuous eight-hour days shall constitute a week's work, Monday through Friday. Time and one-half (1½) the regular hourly rate shall be paid for all work performed in excess of eight (8) hours in any one day or forty (40) hours in any one week. Starting time shall be between 6:00 a.m. and 9:00 a.m. All work over eight (8) hours in a regular 5-day 8-hour schedule shall be at the appropriate overtime rate. All time worked before the regular scheduled starting time shall be paid for at the rate of time and one-half (1½) and shall not apply to regular shift. All time worked after eight (8) hours in any one day or after 5:30 p.m., whichever comes first, shall be paid at the time and one-half (1½) rate. An Employer, at his option, may elect to work four (4) ten (10) hour days, Monday through Thursday, at straight time. All such work must be done at least one week in duration. All work over ten (10) hours in one day or forty (40) hours in a week shall be at the overtime rate. Any employee who is scheduled to work on any regular work day but is prevented from working because of weather conditions, shall be permitted to work on Saturday (Friday if working 4-10's) as a make-up day at the straight time rate of pay. When an employee is required to work on any recognized holiday they shall receive the double (2) time rate for all time that they are required to perform work. All time worked from 12:00 Midnight Saturday to 12:00 Midnight Sunday shall be paid for at the rate of double (2) time on single shift.

**JACKSON COUNTY
HOLIDAY SCHEDULE – BUILDING CONSTRUCTION**

NO. 2: All work performed on New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day, or the days observed as such, shall be paid at the double time rate of pay.

NO. 4: All work done on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving and Christmas Day shall be paid at the double time rate of pay. If any of the above holidays fall on Sunday, Monday will be observed as the recognized holiday. If any of the above holidays fall on Saturday, Friday will be observed as the recognized holiday.

NO. 7: The following days are assigned days and are recognized as holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. If a holiday falls on a Sunday, it shall be observed on the following Monday. If a holiday falls on a Saturday, it shall be observed on the preceding Friday. No work shall be performed on Labor Day except in case of jeopardy to work under construction. This is applied to protect Labor Day. When a holiday falls during the normal workweek, Monday through Friday, it shall be counted as eight (8) hours toward the forty (40) hour week. However, no reimbursement for this eight (8) hours is too paid to the workman unless worked. If workman are required to work the above enumerated holidays or days observed as such, or on Sunday, they shall receive double (2) the regular rate of pay for such work.

NO. 22: All work performed on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, or days locally observed as such, and Sunday shall be recognized as holidays. If a holiday falls on Saturday, Friday shall be observed; if it falls on Sunday, Monday shall be observed. All work performed on holidays shall be paid at the double (2) time rate of pay.

NO. 32: All work performed for the Friday and Saturday following Thanksgiving shall be paid at the time and one-half (1½) rate of pay. All work performed on Sundays, New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day shall be paid at the double (2) time rate of pay. When one of the above holidays falls on Sunday, the following Monday shall be observed and when one of the above holidays falls on Saturday, the preceding Friday shall be observed.

NO. 33: All work done on New Year's Day, Memorial Day, Fourth of July, Thanksgiving Day and Christmas Day shall be paid at the double time rate of pay. Labor Day shall be paid at the triple (3) time rate of pay. If the holiday falls on Sunday, the following Monday will be observed; if the holiday falls on Saturday, the preceding Friday will be observed.

NO. 39: No work shall be done on the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas. Any of these holidays falling on Sunday, the following Monday shall be a holiday, and any of these holidays falling on Saturday, the preceding Friday shall be a holiday.

NO. 49: The following days shall be observed as legal holidays: New Year's Day, Decoration Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day, Employee's birthday and two (2) personal days. The observance of one (1) of the personal days to be limited to the time between December 1 and March 1 of the following year. If any of these holidays fall on Sunday, the following Monday will be observed as the holiday and if any of these holidays fall on Saturday, the preceding Friday will be observed as the holiday. If employees work on any of these holidays they shall be paid time & one-half (1½) their regular rate of pay for all hours worked.

NO. 53: All work done on New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Christmas Day or days observed as such for these holidays shall be paid at the double (2) time rate of pay. No work shall be performed on Labor Day except in special cases of emergency, and then the rate of pay shall be at three (3) times the regular rate of pay. When a holiday falls on a Sunday, the following Monday shall be observed as the holiday. When a holiday falls on Saturday, the preceding Friday shall be observed as the holiday.

NO. 54: All work performed on New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day shall be paid at the double (2) time rate of pay. When a holiday falls on Saturday, it shall be observed on Friday. When a holiday falls on Sunday, it shall be observed on Monday.

**JACKSON COUNTY
HOLIDAY SCHEDULE – BUILDING CONSTRUCTION**

NO. 67: All work performed on New Year's Day, Memorial Day, Christmas Day, Fourth of July and Thanksgiving Day, from midnight to midnight, shall be paid for at the rate of double time (2) the basic rate of pay if required to work in addition to any other pay otherwise required hereunder as holiday pay. Positively no work shall be performed on Labor Day. Martin Luther King's Birthday, Veteran's Day, and the day after Thanksgiving Day shall be considered optional holidays, and if the Employer and employees agree that work will be performed on that day, no premium pay will be required. Should any of the above holidays fall on Saturday, the holiday will be observed on Friday. Should any of the above holidays fall on Sunday, the holiday will be observed on Monday.

NO. 68: All work performed on New Year's Day, Decoration Day (Memorial Day), Independence Day (Fourth of July), Labor Day, Thanksgiving Day, Christmas Day, or days observed as such, shall be paid at the rate of double (2) time. When a holiday falls on a Saturday, Friday shall be observed. When a holiday falls on a Sunday, Monday shall be observed. No work shall be performed on the Fourth of July or Labor Day except to save life or property. Where one of the holidays specified falls or is observed during the work week, then all work performed over and above thirty-two (32) hours in that week shall be paid at the rate of time and one-half (1½).

NO. 72: All work performed on New Year's Day, Memorial Day (last Monday in May), Independence Day, Labor Day, Thanksgiving Day and Christmas Day shall be paid for at double (2) the regular straight time rate of pay. Any one of the above listed holidays falling on Sunday shall be observed on the following Monday and paid for at double (2) the regular straight time rate of pay, if worked. Any one of the above listed holidays falling on Saturday shall be observed on the prior Friday and paid for at double (2) the regular straight time rate of pay, if worked. No work shall be performed on Labor Day except in case of emergency.

Heavy Construction Rates for
JACKSON County

REPLACEMENT PAGE

Section 048

OCCUPATIONAL TITLE	* Date of Increase	Basic Hourly Rates	Over-Time Schedule	Holiday Schedule	Total Fringe Benefits
CARPENTER					
Journeyman		\$33.70	1	17	\$14.35
Millwright		\$33.70	1	17	\$14.35
Pile Driver Worker		\$33.70	1	17	\$14.35
OPERATING ENGINEER					
Group I	6/11	\$32.33	3	2	\$13.88
Group II	6/11	\$31.29	3	2	\$13.88
Group III	6/11	\$31.29	3	2	\$13.88
Group IV	6/11	\$26.82	3	2	\$13.88
Oiler-Driver	6/11	\$30.17	3	2	\$13.88
CEMENT MASON					
		\$28.84	3	2	\$13.63
LABORER					
General Laborer	6/11	\$26.64	3	2	\$12.49
Skilled Laborer	6/11	\$27.85	3	2	\$12.49
TRUCK DRIVER-TEAMSTER					
Group I	6/11	\$29.19	3	2	\$11.65
Group II	6/11	\$29.19	3	2	\$11.65
Group III	6/11	\$29.19	3	2	\$11.65
Group IV	6/11	\$29.19	3	2	\$11.65

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate sheet.

**JACKSON COUNTY
OVERTIME SCHEDULE – HEAVY CONSTRUCTION**

FED: Minimum requirement per Fair Labor Standards Act means time and one-half (1 ½) shall be paid for all work in excess of forty (40) hours per work week.

NO. 1: Means (8) hours shall constitute the regular work day between time that may be advanced or delayed by two (2) hours on either side of 8:00 AM. The Employer may establish a work week consisting of four (4) days, Monday through Thursday, each day consisting of ten (10) hours straight time. The four (4) tens (10s) must run for a period of at least four (4) days, Monday through Thursday. All work on Friday on a four (4) tens (10) project will be paid at the rate of time and one-half (1½). All work performed on Saturday shall be paid at time and one-half (1½). All work performed on Sundays and recognized holidays must be paid at double (2) time. All work performed prior to or after the regular eight (8) hour work day, or ten (10) hour work day, as described above shall be paid at time and one-half (1½) the regular rate.

NO. 3: Means a regular work week shall consist of not more than forty (40) hours of work and all work performed over and above ten (10) hours per day or forty (40) hours per week shall be paid at the rate of time & one-half (1½). Workers shall receive time and one-half (1½) for all work performed on Sundays and recognized holidays. Double (2) time shall be paid for work performed on Sundays or recognized holidays when and only if any other craft employees of the same employer at work on that same job site are receiving double (2) time pay for that Sunday or Holiday work. A work day is to begin between 6:00 a.m. and 9:00 a.m. at the option of the Employer except when inclement weather or other conditions beyond the reasonable control of the Employer prevents work, in which event, the starting time may be delayed, but not later than 12:00 noon. Where one of the recognized holidays falls or is observed during the work week, then all work performed over and above thirty-two (32) hours in that week shall be paid at the rate of time and one-half (1½).

**JACKSON COUNTY
HOLIDAY SCHEDULE – HEAVY CONSTRUCTION**

NO. 2: All work performed on New Year's Day, Decoration Day (Memorial Day), Independence Day (Fourth of July), Labor Day, Thanksgiving Day and Christmas Day, or days observed as such, and Sundays shall be paid at the rate of time and one-half (1½). Double (2) time shall be paid for work on Sundays or recognized holidays when and only if other craft employees of the same employer at work on that same job site are receiving double (2) time pay for that Sunday or holiday work. No work shall be performed on Labor Day, except in case of jeopardy of life or property. This rule is applied to protect Labor Day. When one of the above holidays falls on a Saturday, the preceding Friday shall be observed; when the holiday falls on a Sunday, the following Monday shall be observed. Where one of the specified holidays falls or is observed during the work week, then all work performed over and above thirty-two (32) hours in that week shall be paid at the rate of time and one-half (1½).

NO. 17: All work performed on New Year's Day, Decoration Day (Memorial Day), Independence Day (Fourth of July), Labor Day, Thanksgiving Day, Christmas Day, or days observed as such, shall be paid at the rate of double (2) time. When a holiday falls on a Saturday, Friday shall be observed. When a holiday falls on a Sunday, Monday shall be observed. No work shall be performed on the Fourth of July or Labor Day except to save life or property. Where one of the holidays specified falls or is observed during the work week, then all work performed over and above thirty-two (32) hours in that week shall be paid at the rate of time and one-half (1½).

OUTSIDE ELECTRICIAN

These rates are to be used for the following counties:

Bates, Benton, Carroll, Cass, Clay, Henry, Jackson, Johnson, Lafayette, Pettis, Platte, Ray and Saline

COMMERCIAL WORK

Occupational Title	Basic	Total
	Hourly	Fringe
	Rate	Benefits
Journeyman Lineman	\$38.40	\$5.00 + 34.5%
Lineman Operator	\$35.82	\$5.00 + 34.5%
Groundman	\$25.44	\$5.00 + 34.5%

UTILITY WORK

Occupational Title	Basic	Total
	Hourly	Fringe
	Rate	Benefits
Journeyman Lineman	\$36.53	\$5.00 + 34.5%
Lineman Operator	\$33.76	\$5.00 + 34.5%
Groundman	\$23.54	\$5.00 + 34.5%

OVERTIME RATE: Eight (8) hours of work between the hours of 8:00 a.m. and 4:30 p.m. shall constitute a work day. Forty (40) hours within the five (5) days, Monday through Friday inclusive, shall constitute the work week. Starting time may be adjusted not to exceed two (2) hours. Work performed outside of the aforementioned will be paid at the applicable overtime rate. When starting time has been adjusted, all other provisions concerning the work day shall be adjusted accordingly. The overtime rate of pay shall be one and one-half (1½) times the regular rate of wages, other than on Sundays, holidays and from Midnight until 6:00 a.m., which will be paid at double (2) the straight time rate.

HOLIDAY RATE: Work performed on New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day, or days celebrated as such, shall be paid at the double time rate of pay. If the holiday falls on Saturday, it will be observed on Friday; if the holiday falls on Sunday, it will be observed on Monday, and shall be paid for at double (2) the regular straight time rate of pay.

CONTRACT AGREEMENT

THIS AGREEMENT, is made and entered into by and between, Jackson County, Missouri, Party of the First Part and hereinafter called the Owner, and _____ a _____, Party of the Second Part and hereinafter called the Contractor,

WITNESSETH

THAT WHEREAS, in accordance with law, the Owner has caused contract documents to be prepared and an Advertisement calling for bids to be published for and in connection with Jackson County Project: – *Jackson County Historic Truman Courthouse, Abatement, Remediation & Selective Demolition, County Project Number: 3147, Bid No. PW-02-2012.*

WHEREAS, the Contractor, in response to the Advertisement, has submitted to the Owner, in the manner and at the time specified, a sealed Bid in accordance with the terms of the Advertisement, and

WHEREAS, the Owner, in the manner prescribed by law, has opened, examined, and canvassed the Bid submitted, and has determined the aforesaid Contractor to be the lowest and best bidder for the work and has duly awarded to the said Contractor, a contract therefor, for the sum or sums named in the Contractor's Bid and accepted alternates, a copy thereof being attached to and made a part of this contract.

NOW THEREFORE, in consideration of the compensation to be paid to the Contractor and of the mutual agreements herein contained, the parties to these presents have agreed and hereby agree, the Owner for itself and its successors, and the Contractor for itself, himself, or themselves, and its, his, or their successors and assigns, and its, his, or their executors and administrators, as follows:

ARTICLE I. That the Contractor shall: (a) furnish all tools, equipment, supplies, superintendence, transportation, and other construction accessories, services, and facilities; (b) furnish all materials, supplies, and equipment specified and required to be incorporated in and form a permanent part of the completed work; (c) provide and perform all necessary labor; and (d) in a good, substantial, and workmanlike manner and in accordance with the requirements, stipulations, provisions, and conditions of the contract documents as defined in the attached AIA Document 201 General Conditions, Special Conditions of the Contract, Summary of General Requirements, and Technical Specifications, said documents forming the contract and being as fully a part thereof as if repeated verbatim herein, perform, execute, construct and complete all work included in and covered by the Owner's official award of this contract to the said Contractor, such award being based on the acceptance of the Owner of the Contractor's Proposal.

ARTICLE II. That the Owner shall pay to the Contractor for the performance of the work embraced in this contract, and the Contractor will accept as full compensation hereof, the sum (subject to adjustment as provided by the contract) of (\$ _____)

for all work covered by and included in the contract award and designated in the foregoing Article I; payment thereof to be made in cash or its equivalent, in the manner provided in the General Conditions.

ARTICLE III. That the Contractor shall start work within seven (7) days following the date stipulated in a written order from the Owner to proceed with the work to be performed hereunder, and that the Contractor shall complete the work within the number of days, after the authorized starting date, stipulated in the attached Bid.

ARTICLE IV. That the Contractor expressly warrants that he has employed no third person to solicit or obtain this contract in his behalf, or to cause or produce the same to be obtained upon compensation in any way contingent, in whole or in part, upon such procurement; and that he has not paid, or promised or agreed to pay, to any third person, in consideration of such procurement, or in compensation for services in connection therewith any brokerage, commission, or percentage upon the amount receivable by him hereunder; and that he has not, in estimating the contract price demanded by him, included any sum by reason of any such brokerage, commission, or percentage, and that all monies payable to him hereunder are free from obligation of any other person for services rendered, or supposed to have been rendered, in the procurement of this contract. He further agrees that any breach of this warranty shall constitute adequate cause for the annulment of this contract by the Owner and that the Owner may retain to its own use from any sums due or to become due hereunder an amount equal to any brokerage, commission, or percentage so paid, or agreed to be paid.

The Owner agrees to pay the Contractor in the manner and in the amount provided in the said specifications and bid.

CONTRACT AGREEMENT (continued)

IN WITNESS WHEREOF, Jackson County, Missouri has caused by Resolution No. of _____ these presents to be executed in its behalf by its duly authorized agent, and the said Party of the Second Part has hereunto set its hand and seal.

Recommended by:

Jerry A. Page, P.E.
Director of Public Works

Date

Michael D. Sanders
County Executive

Date

Approved to form this _____ day of _____, 20____.

County Counselor

Attest: _____
Clerk of the Legislature

By: _____
Second Party

Attest: _____

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we,

Legal Name of Contracting Firm

of _____, hereinafter referred to as
City and State

"Contractor," and

Name of Surety

a corporation organized under the laws of the State of

and authorized to transact business in the State of Missouri, as "Surety," are held and firmly bound unto the **County of Jackson, Missouri**, hereinafter referred to as "Owner," in the penal sum of

_____ (\$ _____).

for the payment of which sum, well and truly to be made to the Owner, we bind ourselves and our heirs, executors, administrators, successors, and assigns, jointly and severally, by these presents:

WHEREAS, on the ____ day of _____, 20____, the Contractor entered into a written contract with the Owner for furnishing materials, supplies, and equipment not furnished by the Owner, construction tools, equipment plant and the performance of all necessary labor, for and in connection with the construction of certain improvements described in the attached contract documents; and

WHEREAS, the contract requires payment of all wages in conformance with the official schedule of wage rates and determined by the Industrial Commission of Missouri for the Department of Labor and Industrial Relations, and compliance with the prevailing wage law of the State of Missouri, Revised Statutes of Missouri, Sections 290.210 to 290.340, including the latest amendments thereto.

WHEREAS, it was a condition of the contract award by the Owner that these presents be executed by the Contractor and Surety;

NOW THEREFORE, if the Contractor shall, in all particulars, well, duly, and faithfully observe, perform, and abide by each and every covenant, condition and part of the said contract and the conditions, specifications, drawings, and other contract documents thereto attached, or by reference made a part thereof, according to the true intent and meaning in each case, then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

PERFORMANCE BOND (continued)

PROVIDED FURTHER, that if the Contractor shall fail to pay all just claims and demands by or in behalf of any employee or other persons, or any firm, association, or corporation for labor performed, or materials, supplies, or equipment furnished, used, or consumed by the Contractor or his subcontractors in the performance of the work, then the Surety will pay the full value of all such claims or demands in any total amount not exceeding the amount of this obligation, together with interest as provided by law.

THE UNDERSIGNED SURETY, for value received, hereby agrees that no extension of time, change in, addition to, or other modification of the terms of the contract or work to be performed thereunder; or of the specifications or other contract documents, shall in any way affect its obligation on this bond and the Surety hereby waives notice of any such extension of time, change, addition, or modification.

IN TESTIMONY WHEREOF, the Contractor has hereunto set his hand, and the Surety has caused these presents to be executed in its name and its corporate seal, to be affixed by its attorney-in-fact _____ at _____

on this, the _____ day of _____, 20_____.

Contractor (SEAL)

By: _____

Surety Company

By: _____ (SEAL)
Attorney-in-Fact

By: _____
Missouri Agent

(Accompany this bond with attorney-in-fact's authority from the Surety Company certified to include the date of the bond.)

REVENUE CERTIFICATE

I hereby certify that there is a balance otherwise unencumbered to the credit of the appropriation to which this contract is chargeable, and a cash balance otherwise unencumbered in the treasury from which payment is to be made, each sufficient to meet the obligation of \$ _____, which is hereby authorized.

Manager, Division of Finance

ACCOUNT NUMBER TO BE CHARGED: _____

FMS CONTRACT NUMBER ASSIGNED TO THIS CONTRACT:

NOTICE TO CONTRACTORS

Under the laws of the State of Missouri, any changes made in this contract must be made in writing, approved of record by the County Legislature, Certified by the Manager, Division of Finance, and all made a matter of record before the County is liable therefore.

Manager, Division of Finance
Jackson County, Missouri

Jackson County Historic Truman Courthouse Interior Renovation
Abatement, Remediation, and Selective Demolition
102 North Main Street, Independence, Missouri 64050

April 16, 2012
County Project No. 3147A
County Bid No. PW-02-2012

SALES TAX EXEMPTION

Jackson County, Missouri is an exempt entity under 144.062, Revised Statutes of Missouri, and the purchase of tangible personal property and materials to be incorporated into or consumed in the construction of this project, can be made on a tax exempt basis as provided in that statute.

Jackson County will issue an exemption certificate to the contractor along with the contract. Sales tax paid due to the contractor's or any subcontractor's failure to take advantage of the county's tax exempt status, will not be included in the contractor's invoice to the Owner.

Page ST-2 is the current exemption from the state of Missouri, issued to Jackson County and is included for information only.

Page ST-3 is a copy of the "Missouri Project Exception Certificate" which will be issued to the contractor and subcontractors working on the same project.

State of Missouri

EXEMPTION FROM MISSOURI SALES AND USE TAX ON PURCHASES

ISSUED TO:

MISSOURI TAX I.D.
NUMBER: 13643347

COUNTY OF JACKSON
415 E 12TH ST RM G-1
KANSAS CITY, MO 64106-2706

EFFECTIVE DATE: 07/11/2002
EXPIRATION DATE: Non-Expiring

YOUR APPLICATION FOR SALES/USE TAX EXEMPT STATUS HAS BEEN APPROVED PURSUANT TO CHAPTER 144.303.1, RSMo. THIS LETTER IS ISSUED AS DOCUMENTATION OF YOUR EXEMPT STATUS.

PURCHASES BY YOUR AGENCY ARE NOT SUBJECT TO SALES OR USE TAX IF WITHIN THE CONDUCT OF YOUR AGENCY'S EXEMPT FUNCTIONS & ACTIVITIES. WHEN PURCHASING WITH THIS EXEMPTION, FURNISH ALL SELLERS OR VENDORS A COPY OF THIS LETTER. THIS EXEMPTION MAY NOT BE USED BY INDIVIDUALS MAKING PERSONAL PURCHASES.

A CONTRACTOR MAY PURCHASE AND PAY FOR CONSTRUCTION MATERIALS EXEMPT FROM SALES TAX WHEN FURFILLING A CONTRACT WITH YOUR AGENCY ONLY IF YOU AGENCY ISSUES A PROJECT EXEMPTION CERTIFICATE AND THE CONTRACTOR MAKES PURCHASES IN COMPLIANCE WITH THE PROVISIONS OF SECTION 144.062, RSMo.

SALES BY YOUR AGENCY ARE SUBJECT TO ALL APPLICABLE STATE AND LOCAL SALES TAXES. IF YOU ENGAGE IN THE BUSINESS OF SELLING TANGIBLE PERSONAL PROPERTY OR TAXABLE SERVICES AT RETAIL, YOU MUST OBTAIN A MISSOURI RETAIL SALES LICENSE AND COLLECT AND REMIT SALES TAX.

A CONTRACTOR MAY PURCHASE AND PAY FOR CONSTRUCTION MATERIALS EXEMPT FROM SALES TAX WHEN FULFILLING A CONTRACT WITH YOUR GOVERNMENTAL AGENCY ONLY IF YOUR GOVERNMENTAL AGENCY ISSUES A PROJECT EXEMPTION CERTIFICATE AND THE CONTRACTOR MAKES PURCHASES IN COMPLIANCE WITH THE PROVISION OF SECTION 144.062, RSMO.

THIS IS A CONTINUING EXEMPTION SUBJECT TO LEGISLATIVE CHANGES AND REVIEW BY THE DIRECTOR OF REVENUE. IF IT IS DETERMINED THAT YOUR AGENCY CEASES TO QUALIFY AS AN EXEMPT ENTITY, THIS EXEMPTION WILL CEASE TO BE VALID. THIS EXEMPTION IS NOT ASSIGNABLE OR TRANSFERRABLE. IT IS AN EXEMPTION FROM SALES AND USE TAXES ONLY AND IS NOT AN EXEMPTION FROM REAL OR PERSONAL PROPERTY TAX.

ANY ALTERATION TO THIS EXEMPTION LETTER RENDERS IT INVALID.

IF YOU HAVE ANY QUESTIONS REGARDING THE USE OF THIS LETTER, PLEASE CONTACT THE SALES/USE TAX SECTION, MISSOURI DEPARTMENT OF REVENUE, P.O. BOX 3300, EFFERSON CITY, MO 65105-0840, PHONE 573-751-2836.

MISSOURI PROJECT EXEMPTION CERTIFICATE

Authorization For Purchasing Construction Materials for Tax Exempt Project

(The Form and Content of this Exemption Certificate have been approved by the Missouri Department of Revenue)

EXEMPT ENTITY ISSUING CERTIFICATE

Name: Jackson County, Missouri

Address: 415 E. 12th Street RM G-1

City/State/Zip: Kansas City, MO 64106

MO Tax Exempt I.D.#: 13643347 Letter Expiration Date: 07/31/2012

Contract Date: _____ Certificate Expiration Date: Non-Expiring

Project # Assigned: 3119 Revised Expiration Date: _____

Project Description: Jackson County Historic Truman Courthouse Interior Renovation, Abatement, Remediation, and Selective Demolition

Project Location: Jackson County, Missouri

Estimated Project Completion Date: _____

Auth. Signature: _____ Date: _____

The Missouri exempt entity named above hereby authorizes the purchase, without sales tax of tangible personal property to be incorporated or consumed in the construction of the project identified herein and no other, pursuant to Section 144.062 RSMo.

PURCHASING CONTRACTOR OR SUBCONTRACTOR

Name: _____

Address: _____

City/State/Zip: _____

INSTRUCTIONS

EXEMPT ENTITY - A signed copy of this certificate, along with your MO Tax Exemption Letter, must be furnished to each contractor and/or subcontractor who will be purchasing tangible personal property for use in the project. It is the exempt entity's responsibility to ensure the validity of the certificate. You must issue a certificate with a Revised Expiration Date if purchases will be required to complete the project beyond the original Project Exemption Certificate Expiration Date.

CONTRACTOR OR SUBCONTRACTOR - The contractor shall furnish a completed copy of this exemption certificate, along with a copy of the exempt entity's MO Tax Exemption Letter, to all subcontractors, and any contractor or subcontractor purchasing materials shall present copies of such documents to all material suppliers as authorization to purchase, on behalf of the exempt entity, all tangible personal property and materials to be incorporated or consumed in the construction of that project and no other on a tax-exempt basis. A copy of each certificate must be retained by the purchaser for a period of five years.

MATERIAL SUPPLIES - A completed copy of this exemption certificate, along with the MO Tax Exemption Letter of the exempt entity contracting for the project, must be obtained from the contractor or subcontractor making purchases of tangible personal property for use in the project, and retained for audit purposes. Invoices issued for such purchases must reflect the name of the exempt entity and the project number assigned by the exempt entity shown above.

GENERAL CONDITIONS

SCOPE OF WORK

The work included under this contract consists of furnishing all items, materials, operations, or methods listed, mentioned, indicated or scheduled on the Drawings and/or in the Specifications, including all labor, materials, equipment, transportation, temporary facilities, services and incidentals necessary and required for construction and completion of project named in title page in accordance with contract documents.

FORM OF SPECIFICATIONS

- A. General Conditions of the Contract, Supplementary General Conditions, and Special Conditions of the Contract apply to every Division (1 through 33) of the Specifications.
- B. These specifications are of abbreviated form and contain incomplete sentences. Omissions of words or phrases such as "the Contractor shall," "shall be," "as noted on the drawings," "according to the drawings," "a," "an," "the," and "all" are intentional. Omitted words and phrases shall be supplied by inference in the same manner as they are when a "note" occurs on the drawings.
- C. All specification instructions are directed to the Contractor, and inclusion of any work by mention, note, or itemization, however brief, implies Contractor shall provide same, unless specifically directed otherwise. Where specific Contractor is named, he shall be responsible for and provide work so designated.
- D. In specifying an item by manufacturer's name and/or catalog number, unless specifically stated otherwise, such item shall be provided with all standard devices and accessories indicated in latest edition of manufacturer's catalog or brochure published at date of invitation to bid; such item shall be complete with component parts necessary for obviously intended use and installation, whether or not description or catalog number contains all supplemental information and/or numbers of such components.

AIA GENERAL CONDITIONS

AIA Document A201 "General Conditions of the Contract for Construction", 2007 Edition, 15 Articles, hereinafter referred to as "AIA General Conditions," is hereby made a part of these specifications. Contractor shall consult this document and become intimately familiar with its contents before submitting his bid.

END OF SECTION

Jackson County Historic Truman Courthouse Interior Renovation
Abatement, Remediation, and Selective Demolition
102 North Main Street, Independence, Missouri 64050

April 16, 2012
County Project No. 3147A
County Bid No. PW-02-2012

AIA Document A201 General Conditions



AIA[®] Document A201[™] – 2007

General Conditions of the Contract for Construction

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

THE OWNER:
(Name and address)

THE ARCHITECT:
(Name and address)

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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.

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ARTICLE 1 GENERAL PROVISIONS

§ 1.1 BASIC DEFINITIONS

§ 1.1.1 THE CONTRACT DOCUMENTS

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding requirements.

§ 1.1.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 THE WORK

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 THE PROJECT

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by separate contractors.

§ 1.1.5 THE DRAWINGS

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

§ 1.1.6 THE SPECIFICATIONS

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 INSTRUMENTS OF SERVICE

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 1.1.8 INITIAL DECISION MAKER

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2 and certify termination of the Agreement under Section 14.2.2.

§ 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 CAPITALIZATION

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 INTERPRETATION

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and will retain all common law, statutory and other reserved rights, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce the Instruments of Service provided to them solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

§ 1.6 TRANSMISSION OF DATA IN DIGITAL FORM

If the parties intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Agreement or the Contract Documents.

ARTICLE 2 OWNER

§ 2.1 GENERAL

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 The Owner shall furnish to the Contractor within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located, usually referred to as the site, and the Owner's interest therein.

§ 2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

§ 2.2.1 Prior to commencement of the Work, the Contractor may request in writing that the Owner provide reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. Thereafter, the Contractor may only request such evidence if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) a change in the Work materially changes the Contract Sum; or (3) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due. The Owner shall furnish such evidence as a condition precedent to commencement or continuation of the Work or

the portion of the Work affected by a material change. After the Owner furnishes the evidence, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.2 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.2.3 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.2.4 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.2.5 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.3 OWNER'S RIGHT TO STOP THE WORK

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.4 OWNER'S RIGHT TO CARRY OUT THE WORK

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect or failure. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

ARTICLE 3 CONTRACTOR

§ 3.1 GENERAL

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

§ 3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.2.3, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall make Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated below, shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely written notice to the Owner and Architect and shall not proceed with that portion of the Work without further written instructions from the Architect. If the Contractor is then instructed to proceed with the required means, methods, techniques, sequences or procedures without acceptance of changes proposed by the Contractor, the Owner shall be solely responsible for any loss or damage arising solely from those Owner-required means, methods, techniques, sequences or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 LABOR AND MATERIALS

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other

facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work authorized by the Architect in accordance with Sections 3.12.8 or 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.5 WARRANTY

The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.6 TAXES

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.7 PERMITS, FEES, NOTICES, AND COMPLIANCE WITH LAWS

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions. If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature, that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 21 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend an equitable adjustment in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor in writing, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may proceed as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume

the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 ALLOWANCES

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- .1 allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- .2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and
- .3 whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 SUPERINTENDENT

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the name and qualifications of a proposed superintendent. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to the proposed superintendent or (2) that the Architect requires additional time to review. Failure of the Architect to reply within the 14 day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall prepare and submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 3.10.2 The Contractor shall prepare a submittal schedule, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, and shall submit the schedule(s) for the Architect's approval. The Architect's approval shall not unreasonably be delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 DOCUMENTS AND SAMPLES AT THE SITE

The Contractor shall maintain at the site for the Owner one copy of the Drawings, Specifications, Addenda, Change Orders and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and one copy of approved Shop Drawings, Product Data, Samples and similar required submittals. These shall be available to the Architect and shall be delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

§ 3.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. Their purpose is to demonstrate the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such written notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. The Contractor shall not be

required to provide professional services in violation of applicable law. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall cause such services or certifications to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor all performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review, approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Contractor shall not be responsible for the adequacy of the performance and design criteria specified in the Contract Documents.

§ 3.13 USE OF SITE

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 CUTTING AND PATCHING

§ 3.14.1 The Contractor shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting and patching shall be restored to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or separate contractors by cutting, patching or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the Owner or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

§ 3.15 CLEANING UP

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 ACCESS TO WORK

The Contractor shall provide the Owner and Architect access to the Work in preparation and progress wherever located.

§ 3.17 ROYALTIES, PATENTS AND COPYRIGHTS

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Architect. However, if the Contractor has reason to believe that the required design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Architect.

§ 3.18 INDEMNIFICATION

§ 3.18.1 To the fullest extent permitted by law the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 GENERAL

§ 4.1.1 The Owner shall retain an architect lawfully licensed to practice architecture or an entity lawfully practicing architecture in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 4.1.2 Duties, responsibilities and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified or extended without written consent of the Owner, Contractor and Architect. Consent shall not be unreasonably withheld.

§ 4.1.3 If the employment of the Architect is terminated, the Owner shall employ a successor architect as to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 4.2 ADMINISTRATION OF THE CONTRACT

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate For Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for, the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents, except as provided in Section 3.3.1.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and report to the Owner (1) known deviations from the Contract Documents and from the most recent construction schedule submitted by the Contractor, and (2) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 COMMUNICATIONS FACILITATING CONTRACT ADMINISTRATION

Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized, the Owner and Contractor shall endeavor to communicate with each other through the Architect about matters arising out of or relating to the Contract. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5 and 3.12. The Architect's review shall not constitute approval of safety precautions or, unless otherwise specifically stated by the Architect, of any construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may authorize minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more project representatives to assist in carrying out the Architect's responsibilities at the site. The duties, responsibilities and limitations of authority of such project representatives shall be as set forth in an exhibit to be incorporated in the Contract Documents.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either and will not be liable for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 DEFINITIONS

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

§ 5.2.1 Unless otherwise stated in the Contract Documents or the bidding requirements, the Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each principal portion of the Work. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to any such proposed person or entity or (2) that the Architect requires additional time for review. Failure of the Owner or Architect to reply within the 14 day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person or entity previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 SUBCONTRACTUAL RELATIONS

By appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by these Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may

be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

- .1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor in writing; and
- .2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon such assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

§ 6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation. If the Contractor claims that delay or additional cost is involved because of such action by the Owner, the Contractor shall make such Claim as provided in Article 15.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces, the Owner shall be deemed to be subject to the same obligations and to have the same rights that apply to the Contractor under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6 and Articles 10, 11 and 12.

§ 6.2 MUTUAL RESPONSIBILITY

§ 6.2.1 The Contractor shall afford the Owner and separate contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a separate contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly report to the Architect apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Contractor so to report shall constitute an acknowledgment that

the Owner's or separate contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work, except as to defects not then reasonably discoverable.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a separate contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a separate contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner, separate contractors as provided in Section 10.2.5.

§ 6.2.5 The Owner and each separate contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 OWNER'S RIGHT TO CLEAN UP

If a dispute arises among the Contractor, separate contractors and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 GENERAL

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor and Architect; a Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor; an order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Contractor shall proceed promptly, unless otherwise provided in the Change Order, Construction Change Directive or order for a minor change in the Work.

§ 7.2 CHANGE ORDERS

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor and Architect stating their agreement upon all of the following:

- .1 The change in the Work;
- .2 The amount of the adjustment, if any, in the Contract Sum; and
- .3 The extent of the adjustment, if any, in the Contract Time.

§ 7.3 CONSTRUCTION CHANGE DIRECTIVES

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

- .1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
- .2 Unit prices stated in the Contract Documents or subsequently agreed upon;
- .3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or

.4 As provided in Section 7.3.7.

§ 7.3.4 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed in a proposed Change Order or Construction Change Directive so that application of such unit prices to quantities of Work proposed will cause substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 7.3.5 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.6 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.7 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the method and the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.7 shall be limited to the following:

- .1 Costs of labor, including social security, old age and unemployment insurance, fringe benefits required by agreement or custom, and workers' compensation insurance;
- .2 Costs of materials, supplies and equipment, including cost of transportation, whether incorporated or consumed;
- .3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;
- .4 Costs of premiums for all bonds and insurance, permit fees, and sales, use or similar taxes related to the Work; and
- .5 Additional costs of supervision and field office personnel directly attributable to the change.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 MINOR CHANGES IN THE WORK

The Architect has authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes will be effected by written order signed by the Architect and shall be binding on the Owner and Contractor.

ARTICLE 8 TIME

§ 8.1 DEFINITIONS

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 PROGRESS AND COMPLETION

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Contractor and Owner. The date of commencement of the Work shall not be changed by the effective date of such insurance.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 DELAYS AND EXTENSIONS OF TIME

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by an act or neglect of the Owner or Architect, or of an employee of either, or of a separate contractor employed by the Owner; or by changes ordered in the Work; or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties or other causes beyond the Contractor's control; or by delay authorized by the Owner pending mediation and arbitration; or by other causes that the Architect determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 CONTRACT SUM

The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.2 SCHEDULE OF VALUES

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit to the Architect, before the first Application for Payment, a schedule of values allocating the entire Contract Sum to the various portions of the Work and prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 9.3 APPLICATIONS FOR PAYMENT

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2., for completed portions of the Work. Such application shall be notarized, if required, and supported by such data substantiating the Contractor's right to payment as the Owner or Architect may require, such as copies of requisitions from Subcontractors and material suppliers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or material supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage and transportation to the site for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

§ 9.4 CERTIFICATES FOR PAYMENT

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount as the Architect determines is properly due, or notify the Contractor and Owner in writing of the Architect's reasons for withholding certification in whole or in part as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data comprising the Application for Payment, that, to the best of the Architect's knowledge, information and belief, the Work has progressed to the point indicated and that the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work, (2) reviewed construction means, methods, techniques, sequences or procedures, (3) reviewed copies of requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 DECISIONS TO WITHHOLD CERTIFICATION

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- .1 defective Work not remedied;
- .2 third party claims filed or reasonable evidence indicating probable filing of such claims unless security acceptable to the Owner is provided by the Contractor;

- .3 failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or a separate contractor;
- .6 reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- .7 repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 9.5.3 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or material or equipment suppliers to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Architect will reflect such payment on the next Certificate for Payment.

§ 9.6 PROGRESS PAYMENTS

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor no later than seven days after receipt of payment from the Owner the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and material and equipment suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.

§ 9.6.5 Contractor payments to material and equipment suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors and suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, shall create any fiduciary liability or tort liability on the part of the Contractor for breach of trust or shall entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.7 FAILURE OF PAYMENT

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon seven additional days' written notice to the Owner and Architect,

stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shut-down, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.8 SUBSTANTIAL COMPLETION

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to such Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

§ 9.9 PARTIAL OCCUPANCY OR USE

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer as required under Section 11.3.1.5 and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.10 FINAL COMPLETION AND FINAL PAYMENT

§ 9.10.1 Upon receipt of the Contractor's written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection and, when the

Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner, (3) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- .1 liens, Claims, security interests or encumbrances arising out of the Contract and unsettled;
- .2 failure of the Work to comply with the requirements of the Contract Documents; or
- .3 terms of special warranties required by the Contract Documents.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 SAFETY PRECAUTIONS AND PROGRAMS

The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 SAFETY OF PERSONS AND PROPERTY

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and
- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.

§ 10.2.3 The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent sites and utilities.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3, except damage or loss attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 INJURY OR DAMAGE TO PERSON OR PROPERTY

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, written notice of such injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 HAZARDOUS MATERIALS

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner and Architect in writing.

§ 10.3.2 Upon receipt of the Contractor's written notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of such material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased in the amount of the Contractor's reasonable additional costs of shut-down, delay and start-up.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall indemnify the Owner for the cost and expense the Owner incurs (1) for remediation of a material or substance the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall indemnify the Contractor for all cost and expense thereby incurred.

§ 10.4 EMERGENCIES

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 CONTRACTOR'S LIABILITY INSURANCE

§ 11.1.1 The Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located such insurance as will protect the Contractor from claims set forth below which may arise out of or result from the Contractor's operations and completed operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

- .1 Claims under workers' compensation, disability benefit and other similar employee benefit acts that are applicable to the Work to be performed;
- .2 Claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees;
- .3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees;
- .4 Claims for damages insured by usual personal injury liability coverage;
- .5 Claims for damages, other than to the Work itself, because of injury to or destruction of tangible property, including loss of use resulting therefrom;
- .6 Claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle;
- .7 Claims for bodily injury or property damage arising out of completed operations; and
- .8 Claims involving contractual liability insurance applicable to the Contractor's obligations under Section 3.18.

§ 11.1.2 The insurance required by Section 11.1.1 shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from the date of commencement of the Work until the date of final payment and termination of any coverage required to be maintained after final payment, and, with respect to the Contractor's completed operations coverage, until the expiration of the period for correction

of Work or for such other period for maintenance of completed operations coverage as specified in the Contract Documents.

§ 11.1.3 Certificates of insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the Work and thereafter upon renewal or replacement of each required policy of insurance. These certificates and the insurance policies required by this Section 11.1 shall contain a provision that coverages afforded under the policies will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment as required by Section 9.10.2 and thereafter upon renewal or replacement of such coverage until the expiration of the time required by Section 11.1.2. Information concerning reduction of coverage on account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by the Contractor with reasonable promptness.

§ 11.1.4 The Contractor shall cause the commercial liability coverage required by the Contract Documents 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 during the Contractor's completed operations.

§ 11.2 OWNER'S LIABILITY INSURANCE

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

§ 11.3 PROPERTY INSURANCE

§ 11.3.1 Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract Modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis without optional deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than the Owner has an insurable interest in the property required by this Section 11.3 to be covered, whichever is later. This insurance shall include interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Project.

§ 11.3.1.1 Property insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, falsework, testing and startup, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such insured loss.

§ 11.3.1.2 If the Owner does not intend to purchase such property insurance required by the Contract and with all of the coverages in the amount described above, the Owner shall so inform the Contractor in writing prior to commencement of the Work. The Contractor may then effect insurance that will protect the interests of the Contractor, Subcontractors and Sub-subcontractors in the Work, and by appropriate Change Order the cost thereof shall be charged to the Owner. If the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain insurance as described above, without so notifying the Contractor in writing, then the Owner shall bear all reasonable costs properly attributable thereto.

§ 11.3.1.3 If the property insurance requires deductibles, the Owner shall pay costs not covered because of such deductibles.

§ 11.3.1.4 This property insurance shall cover portions of the Work stored off the site, and also portions of the Work in transit.

§ 11.3.1.5 Partial occupancy or use in accordance with Section 9.9 shall not commence until the insurance company or companies providing property insurance have consented to such partial occupancy or use by endorsement or

otherwise. The Owner and the Contractor shall take reasonable steps to obtain consent of the insurance company or companies and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.

§ 11.3.2 BOILER AND MACHINERY INSURANCE

The Owner shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Owner; this insurance shall include interests of the Owner, Contractor, Subcontractors and Sub-subcontractors in the Work, and the Owner and Contractor shall be named insureds.

§ 11.3.3 LOSS OF USE INSURANCE

The Owner, at the Owner's option, may purchase and maintain such insurance as will insure the Owner against loss of use of the Owner's property due to fire or other hazards, however caused. The Owner waives all rights of action against the Contractor for loss of use of the Owner's property, including consequential losses due to fire or other hazards however caused.

§ 11.3.4 If the Contractor requests in writing that insurance for risks other than those described herein or other special causes of loss be included in the property insurance policy, the Owner shall, if possible, include such insurance, and the cost thereof shall be charged to the Contractor by appropriate Change Order.

§ 11.3.5 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, the Owner shall waive all rights in accordance with the terms of Section 11.3.7 for damages caused by fire or other causes of loss covered by this separate property insurance. All separate policies shall provide this waiver of subrogation by endorsement or otherwise.

§ 11.3.6 Before an exposure to loss may occur, the Owner shall file with the Contractor a copy of each policy that includes insurance coverages required by this Section 11.3. Each policy shall contain all generally applicable conditions, definitions, exclusions and endorsements related to this Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire, and that its limits will not be reduced, until at least 30 days' prior written notice has been given to the Contractor.

§ 11.3.7 WAIVERS OF SUBROGATION

The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, and (2) the Architect, Architect's consultants, separate contractors described in Article 6, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to this Section 11.3 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Contractor, as appropriate, shall require of the Architect, Architect's consultants, separate contractors described in Article 6, if any, and the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

§ 11.3.8 A loss insured under the Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.3.10. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner.

§ 11.3.9 If required in writing by a party in interest, the Owner as fiduciary shall, upon occurrence of an insured loss, give bond for proper performance of the Owner's duties. The cost of required bonds shall be charged against proceeds received as fiduciary. The Owner shall deposit in a separate account proceeds so received, which the

Owner shall distribute in accordance with such agreement as the parties in interest may reach, or as determined in accordance with the method of binding dispute resolution selected in the Agreement between the Owner and Contractor. If after such loss no other special agreement is made and unless the Owner terminates the Contract for convenience, replacement of damaged property shall be performed by the Contractor after notification of a Change in the Work in accordance with Article 7.

§ 11.3.10 The Owner as fiduciary shall have power to adjust and settle a loss with insurers unless one of the parties in interest shall object in writing within five days after occurrence of loss to the Owner's exercise of this power; if such objection is made, the dispute shall be resolved in the manner selected by the Owner and Contractor as the method of binding dispute resolution in the Agreement. If the Owner and Contractor have selected arbitration as the method of binding dispute resolution, the Owner as fiduciary shall make settlement with insurers or, in the case of a dispute over distribution of insurance proceeds, in accordance with the directions of the arbitrators.

§ 11.4 PERFORMANCE BOND AND PAYMENT BOND

§ 11.4.1 The Owner shall have the right to require the Contractor to furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder as stipulated in bidding requirements or specifically required in the Contract Documents on the date of execution of the Contract.

§ 11.4.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 UNCOVERING OF WORK

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, such costs and the cost of correction shall be at the Contractor's expense unless the condition was caused by the Owner or a separate contractor in which event the Owner shall be responsible for payment of such costs.

§ 12.2 CORRECTION OF WORK

§ 12.2.1 BEFORE OR AFTER SUBSTANTIAL COMPLETION

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 AFTER SUBSTANTIAL COMPLETION

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.4.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 ACCEPTANCE OF NONCONFORMING WORK

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 GOVERNING LAW

The Contract shall be governed by the law of the place where the Project is located except that, if the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

§ 13.2 SUCCESSORS AND ASSIGNS

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to covenants, agreements and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate such assignment.

§ 13.3 WRITTEN NOTICE

Written notice shall be deemed to have been duly served if delivered in person to the individual, to a member of the firm or entity, or to an officer of the corporation for which it was intended; or if delivered at, or sent by registered or certified mail or by courier service providing proof of delivery to, the last business address known to the party giving notice.

§ 13.4 RIGHTS AND REMEDIES

§ 13.4.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

§ 13.4.2 No action or failure to act by the Owner, Architect or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach there under, except as may be specifically agreed in writing.

§ 13.5 TESTS AND INSPECTIONS

§ 13.5.1 Tests, inspections and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of (1) tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded, and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating their cost to the Contractor.

§ 13.5.2 If the Architect, Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Section 13.5.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection or approval by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.5.3, shall be at the Owner's expense.

§ 13.5.3 If such procedures for testing, inspection or approval under Sections 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure including those of repeated procedures and compensation for the Architect's services and expenses shall be at the Contractor's expense.

§ 13.5.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.5.5 If the Architect is to observe tests, inspections or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.6 INTEREST

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at such rate as the parties may agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

§ 13.7 TIME LIMITS ON CLAIMS

The Owner and Contractor shall commence all claims and causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of the final dispute resolution method selected in the Agreement within the time period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all claims and causes of action not commenced in accordance with this Section 13.7.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 TERMINATION BY THE CONTRACTOR

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, for any of the following reasons:

- .1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- .2 An act of government, such as a declaration of national emergency that requires all Work to be stopped;

- .3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or
- .4 The Owner has failed to furnish to the Contractor promptly, upon the Contractor's request, reasonable evidence as required by Section 2.2.1.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, repeated suspensions, delays or interruptions of the entire Work by the Owner as described in Section 14.3 constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' written notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, including reasonable overhead and profit, costs incurred by reason of such termination, and damages.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor or a Subcontractor or their agents or employees or any other persons performing portions of the Work under contract with the Contractor because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' written notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 TERMINATION BY THE OWNER FOR CAUSE

§ 14.2.1 The Owner may terminate the Contract if the Contractor

- .1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- .3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the above reasons exist, the Owner, upon certification by the Initial Decision Maker that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' written notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

- .1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- .2 Accept assignment of subcontracts pursuant to Section 5.4; and
- .3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 SUSPENSION BY THE OWNER FOR CONVENIENCE

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay or interruption as described in Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

- .1 that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Contractor is responsible; or
- .2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor shall

- .1 cease operations as directed by the Owner in the notice;
- .2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination, along with reasonable overhead and profit on the Work not executed.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 CLAIMS

§ 15.1.1 DEFINITION

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim.

§ 15.1.2 NOTICE OF CLAIMS

Claims by either the Owner or Contractor must be initiated by written notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party must be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 15.1.3 CONTINUING CONTRACT PERFORMANCE

Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents. The Architect will prepare Change Orders and issue Certificates for Payment in accordance with the decisions of the Initial Decision Maker.

§ 15.1.4 CLAIMS FOR ADDITIONAL COST

If the Contractor wishes to make a Claim for an increase in the Contract Sum, written notice as provided herein shall be given before proceeding to execute the Work. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.5 CLAIMS FOR ADDITIONAL TIME

§ 15.1.5.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, written notice as provided herein shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.5.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction.

§ 15.1.6 CLAIMS FOR CONSEQUENTIAL DAMAGES

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

- 1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- 2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.6 shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 INITIAL DECISION

§ 15.2.1 Claims, excluding those arising under Sections 10.3, 10.4, 11.3.9, and 11.3.10, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim arising prior to the date final payment is due, unless 30 days have passed after the Claim has been referred to the Initial Decision Maker with no decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of such request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of an initial decision, demand in writing that the other party file for mediation within 60 days of the initial decision. If such a demand is made and the party receiving the demand fails to file for mediation within the time required, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 MEDIATION

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.6 shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 ARBITRATION

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 CONSOLIDATION OR JOINDER

§ 15.4.4.1 Either party, at its sole discretion, may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Either party, at its sole discretion, may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an

additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as the Owner and Contractor under this Agreement.

Additions and Deletions Report for **AIA[®] Document A201[™] – 2007**

This Additions and Deletions Report, as defined on page 1 of the associated document, reproduces below all text the author has added to the standard form AIA document in order to complete it, as well as any text the author may have added to or deleted from the original AIA text. Added text is shown underlined. Deleted text is indicated with a horizontal line through the original AIA text.

Note: This Additions and Deletions Report is provided for information purposes only and is not incorporated into or constitute any part of the associated AIA document. This Additions and Deletions Report and its associated document were generated simultaneously by AIA software at 11:29:06 on 06/06/2008.

There are no differences.

Certification of Document's Authenticity

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I, _____, hereby certify, to the best of my knowledge, information and belief, that I created the attached final document simultaneously with its associated Additions and Deletions Report and this certification at 11:29:06 on 06/06/2008 under Order No. 1000354250_1 from AIA Contract Documents software and that in preparing the attached final document I made no changes to the original text of AIA® Document A201™ – 2007 - General Conditions of the Contract for Construction, as published by the AIA in its software, other than those additions and deletions shown in the associated Additions and Deletions Report.

(Signed)

(Title)

(Dated)

SUPPLEMENTARY GENERAL CONDITIONS

These Supplementary Conditions hereby amend and modify the General Conditions of the Contract for Construction, AIA Document A201, 2007 Edition, issued by the American Institute of Architects, Washington, D.C. In the event of any conflict, inconsistency or ambiguity between the terms and provisions of these Supplementary General Conditions and those of Standard Form A201, these Supplementary General Conditions shall govern and control.

The following paragraph numbers, sub-paragraph numbers, and clause numbers relate to the comparable paragraph numbers, sub-paragraph numbers, and clause numbers of the Standard Form A201. The terms and provisions of the Standard Form A201 are hereby amended and modified as follows:

- 1.7 Add the following clause: All references to Arbitration and Mediation shall be deleted including but not limited to the following articles: 8.31, 10.3.5, 10.3.6, 11.3.10, 13.1.1, 15.2.1, 15.2.6, 15.3, 15.3.2, 15.4, 15.41
- 3.2.4 Add the following sub-paragraph: Neither the Owner nor the Architect assume any responsibility for an understanding or representation made by any of their agents or representative prior to the execution of the Agreement unless 1) such understandings or representations are expressly stated in the Agreement, and 2) the Agreement expressly provides that responsibility therefore is assumed by the Owner.
- 3.2.5 Add the following sub-paragraph: Maps and similar reference data made available to the Contractor are given for the Contractor's information only, and neither the Owner nor the Architect assume any responsibility for conclusions the Contractor may draw therefrom.
- 3.3.3 Add the following: Neither the presence or absence of the Owner or the Architect, nor their authorized representatives, shall relieve the Contractor from any requirements herein.
- 3.4.1.1 Add the following clause: The Owner may prepurchase materials and/or equipment which shall be assigned to the Contractor for handling, installation, warranty service and supervision. Such prepurchased materials and/or equipment are listed in Section 01 10 00.
- 3.4.3.1 Add the following clause: Labor shall be performed in best, most workmanlike manner, by mechanics skilled in their respective trades. Standards for work required throughout shall be of such grade as will result in first-class work. Mechanics whose work is unsatisfactory to the Owner or the Architect or is considered by the Owner or Architect to be careless, incompetent, unskilled or otherwise objectionable shall be dismissed from work under the Contract upon written notice from Owner or Architect.
- 3.9.1 Insert the word "full time" in the first line immediately after the word "competent".
- 3.9.2 Add the following sub-paragraph: The Superintendent shall not be removed or replaced without prior written consent of the Owner.

- 3.13.1 Add the following: The Contractor shall be liable for any and all damage caused by him to Owner's premises. The Contractor shall hold and save the Owner, his agents and representatives, free and harmless from liability of any nature or any kind arising from any use, trespass or damage occasioned by his operations on premises or third persons.
- 3.15.1 Add the following: Contractor's clean up shall include wiping down exposed surfaces, washing windows, and vacuuming or thoroughly sweeping floors.
- 8.2.4 Add the following sub-paragraph: The Contractor shall take, at no additional cost to the Owner, whatever means are necessary including, but not necessarily limited to, working nights and weekends and double shifts, and providing temporary weather enclosures and temporary heat/ventilation during inclement weather to assure substantial completion of all work during the Contract Time.
- 8.3.3 Delete the entire sub-paragraph and add the following:
- Unless a delay is caused in whole, or in part, by acts or omissions within the control of the Owner or persons acting on behalf thereof (other than the Contractor or persons acting on behalf of the Contractor), the only remedy available to the Contractor for a delay shall be an extension of time. Unless a delay is caused in whole, or in part, by acts or omissions within the control of the Owner or persons acting on behalf thereof (other than the Contractor or persons acting on behalf of the Contractor), the Contractor agrees that whether or not any delay shall be the basis for an extension of time, the Contractor shall have no claim against the Owner or Architect/Engineer for:
- (a) An increase in the Contract Sum;
 - (b) A payment or allowance of any kind for damage, loss or expense, resulting from delays; or
 - (c) Any damage, loss or expenses, resulting from interruptions, accelerations, inefficiencies or suspensions of its work.
- Nothing herein shall be construed as granting an extension of time for delays caused, in whole or in part, by the Contractor or persons acting on behalf thereof.
- 9.3.1.1 Delete the entire clause.
- 9.3.1.3 Add the following clause: Applications for Payment shall be made on notarized photo copies of AIA Document No. G702, Application and Certification for Payment of the then current edition. Submit four (4) copies of the Application and Certificate for Payment to the Architect for his approval; the Architect will in turn forward one to the Owner for payment, and then return a "Contractor's" copy to the Contractor.
- 9.3.1.4 Add the following clause: Until the final payment, the Owner will pay ninety percent (95%) of the amount due the Contractor on account of progress payments.
- 10.1.2 Add the following sub-paragraph: It is the Contractor's sole responsibility to comply with Local, State and Federal regulations regarding the Work under construction on the site. The Contractor shall comply with the then current provisions of the Occupational Safety and Health Act of 1970 (29CFR1910; Public Law 91-956), and the Consumer Product Safety Act as it relates to building materials and construction.

10.1.3 Add the following sub-paragraph:

The Contractor and his Sub-Contractors and fabricators shall be in compliance with all regulations, including but not limited to, the following Local, State and Federal Regulations:

1. Occupational Safety and Health Act of 1970, (29CFR1910) Public Law #91-956, current provisions and regulations as pertains to Work being performed on this project. (OSHA)
2. Occupational Safety and Health Standards, Part 1910, Chapter 17 of Title 29, Code of Federal Regulations, current provisions and regulations as pertains to Work being performed on this project.
3. The Consumer Product Safety Act as it relates to building materials and construction.
4. Safety and Health Regulations for Construction, Part 1518, Chapter 13 of Title 29, Code of Federal Regulations, current provisions and regulations as pertains to Work being performed on this project.

11.3.1 Revise as follows:

In the first sentence, the Contractor shall purchase and maintain.

11.3.1.2 Delete the entire paragraph.

1.3.1.3 Revise as follows:

Replace the word Owner with the word Contractor.

14.4.3 Delete the entire sub-paragraph and add the following: "Notwithstanding anything to the contrary stated in the Agreement or this Article, if the Owner permanently abandons the Work of the Project, this Agreement may be terminated by the Owner upon not less than seven (7) days written notice to the Contractor. In such event, the Contractor shall be paid to the date of termination for such portions of the Work as the Contractor has completed and the Contractor shall have no other remedy. Contractor shall have no right to anticipated overhead and profit on the portions of Work not completed."

END OF SUPPLEMENTARY GENERAL CONDITIONS

SPECIAL CONDITIONS OF THE CONTRACT

GENERAL REQUIREMENTS OF WORK

A. Materials, Equipment and Substitutions

1. The intent of the Specifications is to allow ample opportunity for Contractor to prosecute the work to his and Owner's mutual advantage, and to permit reasonable competition in bidding on standards of materials and equipment required.
2. In general, the Specifications identify required materials and equipment by naming one or more manufacturer's brand, model, catalog number and/or other identification; first-named manufacturer's product used as the basis for design; other named brands considered equivalent. Equivalent brand manufacturers named must furnish products consistent with Specifications for first-named product, as determined by Architect. Base Bid shall include only those brands named, except as hereinafter provided.
3. Where materials or equipment are described but not named, Contractor shall provide required first quality items, adequate in every respect for intended use, such items subject to Architect's approval prior to procurement.
4. Prior to receipt of bids, should Contractor wish to incorporate in base bid, brands or products other than those named in Specifications, he shall submit on the form included with Instructions to Bidders a written request for substitution to Architect not later than seven (7) days prior to date bids are due. Architect will consider requests, and items approved will be listed in an Addendum issued to principal bidders.
5. As soon as practicable and within 30 days after award of contract, Contractor shall submit shop drawings for equipment and materials to be incorporated in work, for Architect's approval; except where 30 day limit is insufficient for preparation of detailed shop drawings on major equipment or assemblies, Contractor submit manufacturer's descriptive catalog data and date such detailed shop drawings will be submitted and manufacturer's certification that order was placed within 30 day limit.
6. After execution of contract, substitution of product brands for those named in Specifications will be considered only if (1) request is received within thirty days after contract date and request includes statement showing credit due Owner, if any, if substitution product is used, or (2) Owner requests consideration be given to substitute brands.
7. Materials and equipment proposed for substitution shall be equal or superior to that specified in construction efficiency, utility, esthetic design, and color, as determined by Architect whose decision shall be final without further recourse. Physical size of substitute brand shall not be larger than the space provided for it. Physical size and arrangement of components shall be such that there will be provided the clearances, reach range dimensions, approach space, and maneuvering space required by the Americans with Disabilities Act Accessibility Guidelines. Requests must be accompanied by full description and technical data, in three copies, including manufacturer's name, model, catalog number, photographs or cuts, physical dimensions, capacity, load rating, operating characteristics, and other information necessary for comparison.

8. In proposing a substitution prior to or subsequent to receipt of bids, Contractor shall include in such proposal the cost of altering other elements of the project, including adjustments in mechanical-electrical service requirements, as necessary to accommodate such substitution; whether such affected elements be under his contract or under separate contracts.
9. In preparing bid, Contractor shall check his sources of supply verifying catalog numbers and availability of materials and equipment specified. If later, any materials or equipment are discovered to be discontinued, unavailable or their catalog numbers have been changed, are incorrect or ambiguous, Contractor shall consult Architect and, without an increase in contract sum, provide equivalent materials or equipment as selected by Architect.

B. Drawings

1. Accurately lay out such work from dimensions indicated on architectural drawings unless such be found in error. Consult Architect for interpretations concerning locations.
2. Consult Drawings for miscellaneous items of each trade and provide same as indicated.
3. Where Drawings indicate a portion of work and remainder is shown in outline, parts drawn out apply to other like portions of work. Where detail is indicated by starting, only, such detail continues to apply throughout courses or parts in which it occurs and applies to similar parts of work unless otherwise indicated.
4. Unless otherwise indicated, a detail indicates general application of work at all locations where it logically applies, and other related work incident thereto shall be provided as required to fully complete work in manner consistent with detail and other related details and as approved by Architect.

C. Architect's Selection and Approval of Materials

1. Where approval of Architect for material or equipment is required, secure such approval before procurement.
2. Where colors and/or patterns are to be selected by Architect, request such selection in ample time for procurement.
3. Where Specifications include cash allowances, request Architect to select the appropriate material in ample time for procurement.
4. The esthetic values of every material and installation, such as shape, proportion, texture, finish and color, will be an important consideration to Architect and his decisions concerning same shall be final.

D. References

1. References to known standard specifications mean and intend latest edition of such specifications adopted and published at date of invitation to submit proposals.

E. Protection of Work and Property

1. Construct and maintain temporary drainage, and pump as necessary to keep site and excavations free from water. Remove ice and snow as necessary for safety and proper execution of work. Provide cover and protection of work from inclement weather and brace construction to prevent damage from wind.
2. Keep covered materials, cavities and holes subject to damage by falling materials or deposits of water, snow or ice.
3. In cold weather, protect work from damage from frost and freezing. In hot weather, protect work from rapid drying out.
4. Transport, handle, store and erect materials in a manner to keep from injury.
5. Support no runways, ramps, nor construction equipment on nor transport over items or assemblies subject to displacement, disfigurement or other damage.
6. Protect work in place, requiring job-finishing, until such finishing has been completed.
7. Protect previously placed work by suitable coverings or other protection during installation of subsequent work. Clean off foreign materials accidentally deposited on finish surfaces and, where such would stain, corrode or otherwise disfigure, clean same immediately with material that will not damage finished work.
8. Where finished floors are subject to damage, suitably cover traffic areas until building acceptance.

E. Temporary Equipment

1. Provide temporary walks, ramps, ladders, runways, scaffolding, shoring, bracing, tarps and other equipment required for progress of work and remove such at work completion.

A. Appropriate Materials and Installations

1. Before submitting bid, and before procurement of materials selected by Architect subsequent to bid, Contractor, his subcontractors and material suppliers shall observe Drawings, Specifications and material selected, and should any material and/or installation be indicated, specified or directed in a manner not approved by material manufacturer or not in accordance with good construction practice for obviously intended results, notify Architect and receive his instructions. Failing to do so, Contractor shall provide other equivalent materials suitable for the installation, as selected by Architect or if not discovered until after installation, Contractor shall replace materials with such other equivalent suitable and selected materials and in either event at no increase in contract sum.

B. Receiving and Storing Materials

1. On receipt of materials, check for in-transit damage in ample time to replace any damaged materials prior to installation time.

2. Where possible, deliver materials and equipment to project site in manufacturer's original packages, keeping labels intact until final cleaning. Where items are to be job assembled label, tag, mark or otherwise properly identify each component part until incorporated in building.
3. Store materials in manner to prevent deterioration, staining, soiling and intrusion of foreign materials. Provide waterproof well-ventilated enclosures for material subject to deterioration by dampness. Protect materials subject to damage by freezing and frost.
4. Remove from premises materials showing deterioration or damage and replace with new.

C. Preparation

1. Properly prepare work to receive subsequent work or finish. Notify Architect if any work is unsatisfactory to receive subsequent work or finish and receive his instructions before proceeding.

D. Installations

1. Furnish, apply, install, connect, erect, clean and condition manufactured articles, materials and equipment per manufacturer's printed directions, unless otherwise indicated or specified.
2. Manufacturer's printed directions must be on job prior to and during installation of materials and equipment.
3. Provide attachment devices and materials necessary to secure materials together or to other materials and to secure work of other trades.
4. Make allowance for ample expansion and contraction for building components subject to same.
5. Each trade provide sleeves, recesses and openings in their work as required to receive work of other trades.
6. Make field check of actual building dimensions before fabricating products.
7. Where proper fit of work depends upon close tolerances of manufactured products, furnish manufacturer with necessary templates to insure proper fit of components.
8. Install materials only when conditions of temperature, moisture, humidity and condition of adjacent building components are conducive to achieving best installation results.
9. In job-assembling, each trade properly cut and fit to make its assemblies fit accurately and as necessary for other trades having work occurring herein. Correct errors in cutting, shop fabrication and installation. Where necessary to cut into other building components, do so in manner not to damage building structurally or aesthetically, then repair adjoining parts thoroughly and neatly.
10. Erect, install and secure building components in a structurally sound and appropriate manner. Where necessary, temporarily brace, shore, or otherwise support members until final connection or installation. Brace walls and other structural elements to prevent damage by wind and construction operations. Leave temporary bracing, shoring or other structural supports in place as long as necessary for safety and until structure is strong enough to withstand all temporary or permanent loads to which it may be subjected.
11. Where construction consists of a series of units, assemble units in best acceptable manner to provide structurally sound installation, waterproof where exposed to exterior. Accurately plumb and level all units.

12. Handle materials in manner to prevent scratching, abrading, distortion, chipping, breaking or other disfigurement.
13. Unless indicated, fabricate and install materials true to line, plumb and level. Leave finished surfaces smooth and flat or if sloping, contour where indicated, free from wrinkles, warps, scratches, dents and other imperfections.
14. Provide quality of workmanship not less than the commercially accepted standards of that trade, and acceptable to Architect.
15. Where obviously of best practice, furnish materials in longest practical lengths and largest practical sizes to avoid unnecessary joining. Make all joints secure.
16. Where sheet materials join in same plane, make seams tight, secure, flush and inconspicuous.
17. Scribe and/or otherwise neatly fit materials to adjoining materials.
18. Consult Architect for mounting height or position of any unit not specifically located.
19. Construct roofs, walls, flashings, windows, doors and other elements subject to weather exposure so that they will be thoroughly waterproof, windproof and durable. Construct floors, walls and other interior surfaces subject to water in waterproof manner.
20. Once placed, do not disturb materials during curing period.

E. Equipment Verification

1. Contractor shall check physical sizes of all equipment furnished under this contract or furnished by Owner and require other contractors to verify sizes of their equipment, in time to allow ample room for transporting equipment to and installing in its final location before enclosing spaces for it. Notify Architect in writing of any required openings or ceiling heights; such notice in ample time for Architect to direct necessary adjustments before such openings, ceilings or enclosures are placed.
2. Before construction proceeds to point that would prevent necessary modifications, Contractor shall check Drawings, Specifications, shop drawings and change orders and notify Architect in writing of any mechanical/electrical services and/or connections required but not indicated, or incorrectly indicated, for equipment furnished. Failing to do so, Contractor furnishing equipment provide required services and/or connections at his own expense.

F. Finishing

1. Adjust doors, drawers, hardware, appliances, motors, valves, controls, and other equipment for proper operation.
2. Seal exterior joints between materials to form a waterproof enclosure.
3. Touch-up imperfections in surfaces, paint and other finishes after all sub-contractors and tradesmen have completed their work.
4. Clean surfaces using appropriate materials and methods that will thoroughly clean but not damage materials and their finishes, nor damage or adversely affect other materials in the project.

G. Closing-In Work

1. Contractor shall notify his subcontractors, Owner and all Contractors and subcontractors under the Owner, when he is ready for them to install their portions of their work and see that they comply within a reasonable period of time. Neither enclose nor cover any piping, wiring, ducts, equipment or other items until proper tests, observations and/or inspections have been made by Architect and/or proper authorities.
2. Contractor or subcontractor may not put in place any work which will prevent observation and approval of previous work without first notifying the Architect.

H. Repairs

1. Unless Architect grants permission to repair any defective work, remove defective work from project and replace with new work in accordance with contract documents. Permission to repair such work shall not constitute a waiver of Architect's right to require complete replacement of defective work if repair operation does not restore quality and appearance of member or surface to Architect's satisfaction. If permission is granted, repair according to Architect's directions.

I. Completed Work

1. Completed work shall find materials structurally sound, free from scratches, abrasions, distortions, chips, breaks, blisters, holes, splits or other disfigurement considered as imperfections for the specific material. Equipment shall operate properly to design performance capacities and requirements.
2. Finished installations shall illustrate first class workmanship.
3. Completed surfaces shall be thoroughly clean and free from foreign materials and stains.

J. Permanent Systems

1. Install, connect, service and operate permanent systems at earliest practical dates, except as may be modified by specific Sections of the Specifications.

S. Sales Tax

1. Section 144.062 RSMo has been amended to permit non-profit bodies to permit Contractors who are constructing, repairing or remodeling facilities on their behalf to utilize their tax exemption number when purchasing materials to be incorporated in the work. The Owner will provide the Contractor with a tax exempt certificate which may be used in purchasing materials to be used on this project. The Contractor may make additional copies as necessary for Subcontractors on the project. The exemption applies to all tangible personal property materials which will be incorporated into or consumed during the course of the work. It does not apply to the purchase of construction machinery, equipment or tools. The law requires every Contractor purchasing

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materials in accordance with a tax exemption certificate to retain the certificate and all invoices for materials purchased in accordance therewith for a period of five (5) years.

T. Wage Law

The Contractor shall comply with all requirements of the prevailing wage law of the State of Missouri, Revised Statutes of Missouri, Sections 290.210 to 290.340, including the latest amendments thereto.

END OF SPECIAL CONDITIONS OF THE CONTRACT

GENERAL REQUIREMENTS

1.01 PROTECTION OF WORK AND PROPERTY

- A. Contractor take charge of and assume general responsibility for proper protection of building during construction and further provide substantial enclosures at all openings as necessary for protections, including doors with locks.
- B. Contractor shall assume responsibility for his materials and equipment on the premises.
- C. Contractor shall take care to maintain the integrity and finishes present in this historical building.

1.02 BUILDING AND OTHER PERMITS

- A. Contractor secure and pay for all city, county and state permits as required.

1.03 COOPERATION OF DRAWINGS AND SPECIFICATIONS

- A. In the case any point in regard to the construction is not fully understood by the Contractor, he shall make application to the Architect for such further instructions as may be necessary. The Drawings and Specifications are intended to cooperate fully, but should a case arise in which they apparently do not, the Architect shall decide such questions and his decision shall be final and binding on all parties. Should any item specified be omitted on the Drawings or vice versa, it shall be carried out by the Contractor as if so expressed, without extra charge; any work necessary to the complete and proper finishing of the building so specified or shown must be done by the Contractor without extra charge. Figured dimensions given on the Drawings shall in all cases be followed in preference to scale drawings, but the Contractor shall obtain in every case figures from the Architect where they are not already given on the Drawings.

1.04 UTILITIES

- A. Contractor shall arrange for and pay for telephone service to the Contractor's site office or mobile phone system and for temporary toilet facilities at the site. The Contractor shall furnish the Architect with a mobile phone or pager number with which the superintendent may be contacted during normal working hours.

1.05 CONTRACTOR'S SITE OFFICE AND STORAGE

- A. Contractor shall utilize temporary office and storage facilities within the building for the duration of the project. Location of these facilities shall be coordinated with the Owner. No facilities are allowed outside the building except for dumpsters and temporary restrooms, as described herein.

1.06 CODE COMPLIANCE

- A. All work completed in connection with this project shall be governed by and in compliance with the Building and Specialty Codes Adopted by Jackson County, Missouri, including the following:
- 2009 International Building Code
 - 2008 National Electrical Code
 - 2009 Uniform Plumbing Code
 - 2009 International Mechanical Code
 - 2009 International Energy Conservation Code
 - 2009 International Fire Code
 - 2009 International Existing Building Code
 - 2008 National Green Building Standard ICC-700-2008 (guideline only)

1.07 TEMPORARY BARRIERS

- A. Provide temporary barricades, as required to protect the public from harm due to construction activities.

1.08 DEFENSE OF SUITS

In case any action at law or suit in equity is brought against the Owner or any of its officers or agents for or on account of the failure, omission, or neglect of the contractor to do and perform any of the covenants, acts, matters, or things by this contract undertaken to be done or performed, or for any injury or damage caused by the negligence or alleged negligence, of the Contractor or his subcontractors, or his or their employees or agents, the Contractor shall indemnify and save harmless the Owner, and officers and agents of the Owner, of and from all losses, costs, damages, expenses, judgments, or decrees whatever arising out of such actions or suits as may be brought as aforesaid.

1.09 INSURANCE

The Contractor shall procure and maintain in affect throughout this duration of the contract insurance coverage not less than the types and amounts specified in this section. If the nature of the goods and/or services provided by the contractor are such that they may be excluded from the coverage listed below, an addendum shall be made to the contract requesting the coverage and limits required.

All subcontractors are required to carry the same coverage and limits as the prime contractor. All required Liability policies are to be written on an "occurrence" basis unless an agreement, in writing, has been made with Jackson County.

COMMERCIAL GENERAL LIABILITY

Commercial General Liability Insurance with limits of not less than \$1,000,000 per occurrence and \$2,000,000 Annual Aggregate (both General and Products-Completed Operations). Aggregate shall be on a per project basis where more than one project is to be performed by the contractor under this

contract. Policy shall include Severability of Interests coverage applying to Additional Insureds and also include Contractual Liability with no limitation endorsements. Policy shall include \$100,000 limit each occurrence for Damage to Rented Premise, \$1,000,000 limit each occurrence for Pollution Liability, \$1,000,000 limit each occurrence for Personal & Advertising injury liability, \$5,000 Medical Expense (any one person), and Employee Benefits Liability coverage with a \$1,000,000 limit.

COMMERCIAL AUTOMOBILE LIABILITY

Commercial Automobile Liability Insurance with a limit not less than \$1,000,000 Combined Single Limit for Bodily Injury and Property Damage Limit (each accident), covering owned, hired, borrowed, and non-owned vehicles. Coverage shall be provided on a “any auto” basis and be on a Commercial Business Auto form, or acceptable equivalent, and will protect against claims arising out of the operation of motor vehicles in connection with this contract.

WORKERS COMPENSATION AND EMPLOYERS LIABILITY COVERAGE

Contractor shall provide coverage for Workers Compensation and Employers Liability for all claims by employees of the contractor or by anyone for whose acts it may be liable under the statutes of the State of Missouri with limits of:

Workers Compensation Statutory

Employers Liability \$500,000 each accident
 \$500,000 Disease – each employee
 \$500,000 Disease – Policy Limit

EXCESS/UMBRELLA LIABILITY COVERAGE

Contractor shall provide Excess/Umbrella liability on an occurrence basis, with \$10,000 Retention, to provide coverage limits over all liability coverage listed above, at a limit not less than \$1,000,000 each occurrence and \$1,000,000 Aggregate.

PROPERTY INSURANCE

Contractor shall provide coverage for Builders Risk Insurance as per AIA 201 General Conditions Article 11.3 and Supplemental General Conditions References to 11.3.

ADDITIONAL INSURED & CERTIFICATE OF INSURANCE

The Commercial General and Automobile Liability Insurance specified above shall provide Jackson County Missouri, The City of Independence Missouri, Piper-Wind Architects, Inc. Professional Service Industries, Inc., and their agencies, officials, officers and employees, while acting within the scope of their authority, will be named as additional insureds for the services performed under this contract.

A Certificate of Insurance shall be filed with the County’s Director of Purchasing for review and approval before commencement of work. The Certificate shall contain a provision that the policies may not be cancelled by the insurance carrier without 30 days written notice of cancellation, 10 days for non-payment of premium, to Jackson County. In the case of multi-year, renewable, or extended term on the contract, Contractor must supply the Director with current Certificate(s) on any coverage mentioned above within thirty (30) days prior to the expiration date of coverage. The Director of Purchasing may request copies of the Contractor’s insurance policies for verification of coverage.

QUALIFICATIONS INSURANCE CARRIERS

All insurance coverage must be written by companies that have an A.M. Best's rating of "B+ V" or better or Lloyds of London, and are licensed and approved by the State to do business in Missouri.

FAILURE TO MAINTAIN INSURANCE COVERAGE

Regardless of any approval by Jackson County, it is the responsibility of the contractor to maintain the required insurance coverage in force at all times; its failure to do so will not relieve the contractor of any contractual obligation of responsibility. In the event of the Contractor's failure to maintain the required insurance, Jackson County may order work to stop immediately and, upon 10 days written notice and an opportunity to cure, may pursue its remedies for breach of this contract as provided for herein and by law.

1.10 ASSIGNMENT AND SUBLETTING OF CONTRACT

Except for the furnishing and transportation of materials, the Contractor shall not sublet, sell, transfer, assign, or otherwise dispose of any portion of his contract to any individual firm or corporation without written consent of the Owner. This consent of the Owner, will not be given unless, and until, the Contractor has submitted satisfactory evidence that the proposed subcontractor is qualified to execute the work and has an Affirmative Action Plan acceptable to the County, together with a complete copy of the subcontract if so requested by the Engineer. The subcontract shall bind the subcontractor to comply with all requirements of this contract, for example, wage rates, equal employment opportunity regulations, submittal of payrolls, etc. Assignment of the entire contract may be made only upon written consent of the Owner. The Contractor's own forces and equipment shall perform not less than 10 percent of the contract work.

No assigning, transferring or subletting, even though consented to, shall relieve the Contractor of his liabilities under his contract.

The Contractor shall give his personal attention of any portion of his contract, which has been sublet, and he shall be responsible for its proper construction.

The prime Contractor, as a condition of this contract, is responsible for assuring submission of proof or documentation regarding Affirmative Action compliance by his subcontractors and for the subsequent Affirmative Action performance by such subcontractors.

1.11 LOSSES FROM NATURAL CAUSES

All loss or damage arising out of the nature of the work to be done, or from the action of the elements, or from floods or overflows, or from ground water, or from unusual obstructions or difficulties, or any other natural or existing circumstance either known or unforeseen, which may be encountered in the prosecution of the said work shall be sustained and borne by the Contractor at his own cost and expense.

1.12 DEFECTIVE WORKMANSHIP AND MATERIALS

During a period of one (1) year from and after the date the final acceptance by the Owner of the work embraced by this contract, the Contractor shall make all needed repairs arising out of defective workmanship or materials, or both, which, in the judgment of the Owner, shall become necessary during such period. If within ten (10) days after the mailing of a notice in writing to the Contractor, or his agent, the said Contractor shall neglect to make, or undertake with due diligence to make, the aforesaid repairs, the Owner is hereby authorized to make such repairs at the Contractor's expense providing, however, that in case of an emergency where, in the judgment of the Owner, delay would cause serious loss or damage, repairs may be made without notice being sent to the Contractor, and the Contractor shall pay the cost thereof.

1.13 PERFORMANCE, PAYMENT, AND MAINTENANCE BOND

The performance, payment, and maintenance bond shall be executed by the Contractor with a surety company which: (1) meets the minimum standard for an insurance carrier which currently is in effect for all coverages purchased by Jackson County; and (2) is on the most current United States Treasury list as a surety whose bonds are acceptable to the United States Government.

- a. For the faithful performance and completion of the work in strict accordance with the terms of the contract, and each and every covenant, condition, and part thereof, according to the true intent and meaning of contract documents and herein defined;
- b. For payment of all just claims for labor performed and material furnished; and
- c. For the repair, or replacement where required, or the cost thereof, of all work performed under the terms of the contract, where such repair or replacement is required because of defective workmanship or materials, or both, and for the replacement of defective equipment or parts thereof, within a period of one (1) year after the date of acceptance as herein provided. The Owner agrees to mail a notice to the Contractor, calling his attention to any failure to comply with the requirements of the bond, not less than ten (10) days before notifying his surety of such failure.

1.14 HOMELAND SECURITY AFFIDAVIT

As a condition for the award of any contract or grant in excess of five thousand dollars by the County to a business entity, the business entity shall, by sworn affidavit and provision of documentation, affirm its enrollment and participation in a federal work authorization program with respect to the employees working in connection with the contracted services. Every such business entity shall also sign an affidavit affirming that it does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. Any entity contracting with the County shall only be required to provide the affidavits required in this subsection to the County on an annual basis.

1.15 SAFETY TRAINING REQUIREMENT FOR ALL ON-SITE EMPLOYEES

The contractor to whom the contract is awarded and any subcontractor under such contractor shall require all on-site employees to complete a ten-hour Occupational Safety and Health Administration (OSHA) construction safety program for their on-site employees which includes a course in construction safety and health approved by OSHA or a similar program approved by the department which is at least as stringent as an approved OSHA program. All employees are

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required to complete the program within sixty days of beginning work on such construction project. The contractor shall provide certification of compliance with this condition following the award of the contract and before work commences on the project.

END OF SECTION

1.1 Fungal Remediation Work Plan

FUNGAL REMEDIATION WORK PLAN

For

**Jackson County Historic Courthouse
102 North Main Street
Independence, Missouri 64050**

Prepared for

**Jackson County Public Works Department
303 West Walnut Street
Independence, Missouri 64050**

**PSI PROJECT NUMBER 0603-477
JACKSON COUNTY PROJECT NO. 3147A**

April 16, 2012

Prepared by

**PROFESSIONAL SERVICE INDUSTRIES, INC.
1211 West Cambridge Circle Drive
Kansas City, Kansas 66103
(913) 310-1600
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- Attachment A – PSI Report for Limited Fungal Evaluation Services, dated March 12th, 2012
- Attachment B – Established Guidelines for Mold Remediation

SECTION 1 – SCOPE OF WORK

1.1. General

The following is a Fungal Remediation Plan for addressing indoor mold contamination, such as, water damaged or biologically contaminated building materials and interior finishes. The outlined protocols are basic procedures to minimize the transference of mold to uncontaminated areas, for decontaminating building materials and to protect personnel during remediation. At a minimum, remediation and decontamination procedures should follow established guidelines listed in Attachment A. In addition to these guidelines, the contractor is expected to abide by all applicable local, state, and federal laws for the location where the work is being performed.

This guideline is for the use of the remediation contractor. It is intended to provide general guidance for controlled removal, sanitizing, and disposal of grossly affected building materials as well as the cleaning of areas prior to re-occupancy. Additional site-specific measures may be warranted for personnel safety. PSI assumes no liability for worker safety, which shall remain the sole responsibility of the contractor.

As a general guidance document, this protocol cannot and does not address every mold remediation scenario that may arise. Unique circumstances may exist at some properties that will require alternative approaches. When such circumstances develop during the course of remediation activities, PSI should be consulted for advice on the appropriate action.

The wall, Ceilings, and other painted surfaces may contain lead-based paint and should be treated as such.

1.2. Project Background

The subject area is the basement area and one restroom on the 2nd floor of the Jackson County Historic Court House in Independence, Missouri. An initial fungal evaluation was performed on February 12, 2012 and based on the findings of that evaluation, PSI recommends the basement area and a restroom on the 2nd floor be addressed in accordance with this Fungal Remediation Work Plan.

1.3. General Outline of Scope of Work

Basement Area and 2nd Floor Restroom

- Install a polyethylene containment separating the work area from the remainder of the facility. (See attached Drawing).
- Seal off all heating, ventilation and air conditioning (HVAC) vents and any other openings within the containment area.
- Install a minimum two chamber decontamination chamber attached to the containment area.

- Place a sufficient number of HEPA-filtered air filtration devices within the containment area to cause a negative pressure differential inside the work area in relation to the surrounding areas.
- Clean all areas inside the containment area with an EPA approved sanitizer. If paint is loose it is to be scraped and treated as lead-based paint.
- After completion of the remediation, HEPA vacuum and/or wet wipe all surfaces in the containment area.

NOTE1: Clean all restroom exhaust ducts in the second floor restroom.

All work should be performed in general accordance with the guidelines established by the US EPA Guidance Document: "Microbiological Remediation in Schools and Commercial Buildings," dated May 8, 2002. In addition, the Institute of Inspection, Cleaning, Restoration and Certification (IICRC) Standard and Reference Guides S520 (Mold Remediation Standard) and S500 (Professional Water Damage Restoration) shall also apply. All work is to be performed by workers properly trained in microbiological remediation.

All material to be removed and discarded shall be done so according to the specifications in this work plan. Remaining materials are to be cleaned and disinfected according to specifications in this work plan.

Note: Any conditions that are considered to be anomalous or outside of typical concerns regarding fungal remediation activities or this work plan should be brought to the attention of PSI prior to any action being taken.

SECTION 2 – PRIOR TO BEGINNING WORK

2.1. Points of Access

Access to the building for personnel, equipment, materials and waste will be coordinated by Jackson County Public Works personnel or their agent.

2.2. Security

Access to the facility will be provided by Jackson County Public Works personnel.

2.3. Containments

Containments are required to help assure that mold spores do not migrate from the work area to the surrounding areas. The containment will be from floor to ceiling, where applicable. The remediation contractor is to restrict access and install critical barriers over all HVAC vents and other openings into the work areas. The HEPA air filtration devices in the containment will be maintained at all times. Where possible, two (2) “Z” flap entrances will be placed at the entrance to the containment. The containment will remain in place until acceptance criteria as established within this work plan are satisfied through visual observation, sample collection and laboratory analysis.

In addition, all waste material will be double bagged and sealed within containment prior to removal.

SECTION 3 – PERSONAL PROTECTIVE EQUIPMENT

3.1. Required Personal PPE

All personnel employed in demolition, cleaning, and/or removal of contaminated building materials and contents including the application of fungicidal treatment will be required to use the following Personal Protective Equipment (PPE). All personnel will have been medically cleared, trained, and fitted for the PPE that they use, especially respirators, in accordance with applicable local, state, and federal regulations. The following PPE is required:

- 3.1.1. Air purifying respirators (half or full face) equipped with high efficiency particulate air (HEPA) filter cartridges. Organic vapor cartridge respirators will be worn if organic solvents are being used or the Material Safety Data Sheet for the products being used recommends them.
- 3.1.2. Disposable coveralls with booties and hood.
- 3.1.3. Rubber or leather work gloves. Other types of gloves may be necessary depending on the work tasks and chemicals used
- 3.1.4. Splash-proof safety goggles, if half face respirators are used.

3.2. Usage of PPE

At the end of each work shift, all disposable gear should be discarded. The disposable gear will be removed while inside the containment. It will be placed in a plastic bag. When the bag is full it will be double bagged and sealed before bringing it outside the containment. It may be disposed with the other remediation debris. The respirators should be wiped down with 70 percent rubbing alcohol sponges (or similar respirator cleaning products) whenever contact with the skin occurs; and, gloves and shoes should be sprayed with aerosol Lysol® disinfectant spray (or equivalent) to kill viable microbes.

SECTION 4 – SEQUENCING OF REMEDIATION

Remediation activities may generate significant airborne dust, which in all likelihood will contain fungal matter. Additionally, lead-based paint and asbestos containing materials are present throughout the building; reference the corresponding documents for additional detail on materials, locations, and proper handling. Unless otherwise specified, workers trained in the handling of mold-contaminated and water-damaged materials must perform all removal of damaged materials and cleaning of mold contaminated articles. The remediation activities must be done using polyethylene containments. The general sequence will involve

1. Restrict access and establish work areas.
2. Cleaning of remaining surfaces and materials inside the work area.
3. Determination of acceptable work performance and post remediation monitoring.
4. Demobilization of containment and dispose of materials off-site.
5. Cleaning of HVAC system, ductwork and air diffusers in the areas where work is being performed.

Note: Any conditions that are considered to be anomalous or outside of typical concerns regarding fungal remediation activities should be brought to the attention of PSI prior to any action being taken.

SECTION 5 – ESTABLISHMENT OF NEGATIVE PRESSURE CONTAINMENT

5.1. Containment Construction

The containment will consist of polyethylene separating the work area from the remainder of the building. The containment will consist of installing polyethylene barriers from the floor to the ceiling and by installing critical barriers over all openings into and out of the work area. The containment will remain in place until acceptance criteria as established within this work plan are satisfied through visual observation, sample collection and laboratory analysis.

5.2. Negative Air

Negative air machines equipped with HEPA filtration are to be installed to establish a slight negative air pressure within the containments relative to air outside of the containments. The negative pressure produced by the HEPA filtration unit will trap and hold dust (which will contain mold spores and fragments, bacterial and other potential allergens, etc.) on the HEPA filter and eliminate it from spreading outside the containment. Air vented outside of the containment is always to be passed through a HEPA filter prior to being exhausted.

5.2. Signage

Appropriate warning signs should be posted at any openings to the containment area. An example sign would be: "Restricted Work Area. Only authorized persons with appropriate safety equipment will be permitted."

5.3. Decontamination Unit

A decontamination unit is to be attached to the containment area and is to be used for the decontamination of non-porous goods, construction equipment, personnel, and safety equipment.

The decontamination unit is to consist of a Clean Room and an Equipment Room. Personnel and equipment enter and exit the work area through the Decontamination Unit, and it is to be constructed so that personnel entering the work area will proceed through the Clean Room first and Equipment Room second. Remediation personnel may use dry decontamination techniques (double suiting, HEPA vacuuming of suits, washing hands, etc.) in lieu of showering.

5.5. Staging Area

Space outside the work area is to be selected by the contractor and approved by Jackson County Public Works personnel as a temporary Staging Area for the items that have been cleaned and/or construction materials/equipment.

SECTION 6.0 – CLEANING

6.1 Cleaning

All remaining surfaces within the work area shall be thoroughly cleaned to remove loose dust. The cleaning shall be performed using damp cloths wetted with a cleaning solution, as described in this work plan, and vacuum cleaners equipped with HEPA filters. The negative air machines will be in continuous operation throughout the cleaning phase.

Caution: Cleaning may introduce water into the containment area. The remediation contractor is responsible for following the appropriate lock out/tag out procedures for any electrical components in the work area. The remediation contractor is also responsible for protecting all live electrical circuits running into and through the work area.

6.2 Cleaning Solution

Surfaces that have been damaged by water and/or mold, as well as, areas where there is a possibility of mold regrowth (e.g., wall cavities and studs) shall be thoroughly cleaned with an appropriate cleaning solution. Any chemicals to be used must be designated as EPA Approved. Because the solution may be a reactive chemical, damage to porous materials might occur. The remediation contractor shall use due care when applying this solution. Adequate ventilation and proper worker PPE, in accordance with the product's specifications and guidelines, must be maintained, during use of any cleaning solutions.

The cleaning solution must meet the following requirements:

- It must have an EPA approval number;
- It must be used for the approved purpose; and,
- It must be used according to the label instructions.

SECTION 7.0 – DISPOSAL

The debris may be disposed as normal waste or construction demolition debris depending on local and state regulations. This material is not considered hazardous waste. All applicable local, State, and Federal requirements for the disposal of this material shall be followed.

Debris containing asbestos or lead-based paint chips should be handled and disposed of in accordance with all applicable local, State, and Federal requirements.

SECTION 8.0 – ACCEPTABLE WORK PERFORMANCE AND POST REMEDIATION SAMPLING ACCEPTANCE CRITERIA

After the completion of the remediation (but prior to any breakdown of the containment) PSI will perform a visual inspection and conduct post remedial sampling for airborne fungal spores inside each containment area. A sample will also be collected outside the building to document that the area has been properly addressed. All work will be performed under the direction of a PSI Principal Consultant.

8.1 Visual Inspection

As directed by the client, PSI will conduct a post remediation visual evaluation of the restoration/remediation contained work areas. PSI will note any odors, stains, visual fungal material or moisture and document the removal of the identified impacted building substrates.

Building materials visually exhibiting current or previous water damage or which have a history of water damage or fungal growth will be documented and tested for moisture content. A resistance moisture meter may be used to determine the moisture content of any material observed as being potentially damaged by water.

8.2 Air Sampling

Post work activity air sampling for total fungi (mold) may be performed using spore trap cassettes. Samples shall be analyzed microscopically via direct examination for fungi spore identification and enumeration. Each containment will be sampled at approximately 15 liters per minute using an ambient air sample pump. PSI may also collect an air sample from the exterior of the building for comparison purposes. Sampling will be performed for up to approximately 5 minutes to obtain an approximate 75-liter sample. The samples will be sent under chain of custody to an approved AIHA accredited laboratory experienced in the analysis of fungi spore identification and enumeration. If the containment does not pass the acceptance criteria and additional sampling is needed; the contractor performing the work will be responsible for PSI's additional fees associated with this additional sampling, unless the acceptance criteria failure is deemed NOT to be associated with the contractor's work performance.

8.3 Surface Sampling

If necessary, surface samples may be collected from surfaces within the subject site that are visually observed to have or exhibit potential signs of fungal growth. Samples may also be collected from various areas throughout the work area to verify acceptable performance of cleaning work activities.

8.4 Acceptance Criteria

The containments will remain in place until acceptance criteria, as established within this work plan, are satisfied through visual observation, sample collection and laboratory analysis

Visual evaluation must indicate that all fungal impacted material has been removed and the areas adequately cleaned. The areas are to be completely free of dust or debris, with no dampness or odors.

Results for mold testing will be considered acceptable if indoor samples indicate similar types of fungal spores as compared with outdoor samples. In addition, indoor levels should be less than or have no significant elevation indoors as compared to outdoors.

SECTION 9.0 – SUBMITTALS

9.1 Submittals Prior to Project Start Date

Prior to the project start date, the contractor shall submit to the owner's representative, the following documentation:

- Material Safety Data Sheets (MSDS) for each chemical to be used during the project.
- Current Respirator Fit Test Records.
- Current Medical Clearance for Respirator Use.
- Any applicable worker training certificates.

In addition, this documentation must be maintained on the project site for the duration of the project.

9.2 Submittals After Project Completion

Upon completion of the project, the contractor will submit a report to the owner's representative that describes the work that was performed. All submittals will be provided within 30 days. The report will include the following:

- Work Site Daily Logs, indicating at a minimum
 - Work performed
 - Amount of material removed
 - Names of workers present on job site
 - Times that those workers were present
- Documentation of Disposal
- Copies of any change orders, etc. and any supporting documentation

ATTACHMENT A: PSI Report for Limited Fungal Evaluation Services



March 12, 2012

Jackson County Public Works: Facilities Department
303 West Walnut Street
Independence, Missouri 64050

Attn: Mr. Jerry Page, P.E.
Director of Public Works and Facilities Management

Re: Report for Limited Fungal Evaluation Services
Jackson County Historic Court House
112 West Maple
Independence, Missouri 64050
PSI Project No. 0603477-1

Dear Mr. Page:

In accordance with PSI Proposal Number 603-56868 with Piper-Wind Architects, Inc. dated December 15, 2011, Professional Services Industries, Inc. (PSI) performed a limited fungal evaluation at the Jackson County Historic Court House located at 112 West Maple in Independence, Missouri. Two (2) copies of the final report are enclosed.

BACKGROUND

PSI conducted a fungal evaluation on an approximately 33,500 square foot, four level structure (Site) located in Independence, Missouri. The test areas were located in the basement, the first floor, and the second floor of the building. PSI was contracted to perform a fungal evaluation, tape lift surface samples, and indoor air sampling at the site to assess for the presence or absence of mold in the building in response to planned renovation work of the structure.

PURPOSE

During a site visit prior to project commencement, PSI noted the presence of visible (fungal) mold growth in the basement of building. The purpose of this limited fungal evaluation was to assess the subject building for the presence of mold amplification.

AUTHORIZATION

Authorization to perform this work was given by Mr. Eric Piper and authorized by the Jackson County Public Works Department by the reception of signed proposal number 0603-56868 dated December 15, 2011, John Starr of PSI, performed the evaluation on February 12, 2012.

SCOPE OF SERVICES

PSI performed a walk-through evaluation of the subject area. The general evaluation consisted of visual observation for fungal growth or evidence of water intrusion, fungal airborne sampling, and tape lift surface sampling.

General Evaluation

The evaluation included visual observations of the subject area with a history of reported concerns with moisture, condensation or water intrusion. Where conditions warranted, items were moved to aid in visual observation. The following elements were performed during the general evaluation.

Water Incursion & Moisture Observations and Measurements

PSI attempted to visually identify sources of potential water leaks. These included standing water, condensation, stained building materials, or other water damage evidence. Areas of moisture intrusion were observed and the moisture tests indicated that the levels were in acceptable ranges. It was reported to PSI by Jackson County, that the exterior of the building underwent work, including replacement of windows, several years ago to eliminate water intrusion problems. Based on the results of the moisture meter testing, evidence of on-going water intrusion was not noted at the time of the inspection.

Visible Fungal Growth

PSI visually inspected the interior portions of the building to identify areas of visible fungal growth. At the time of the inspection, visible fungal growth was noted on the walls and ceilings in both the eastern and western portions of the basement. Additionally, visible fungal growth was identified in a bathroom on the second floor, southwest section of the building. The visible growth in the bathroom was on the upper portions of the walls, as well as the ceiling. Attached in Appendix A is a photo log depicting typical areas of visible fungal growth.

Airborne Fungi (mold)

Air sampling for total fungi (mold) was performed using spore trap cassettes. The air was sampled at approximately 15 liters per minute using an ambient air sample pump. Sampling was performed for 10 minutes to obtain an approximate 150-liter sample.

Based upon the visual observations, air samples were collected from the following locations:

- Four (4) from representative areas in the basement
 - Basement - East End, North Side
 - Basement - East End, South Side
 - Basement - West End, North Side
 - Basement - West End, Near Stairwell
- One (1) from the tunnel which connects the two (2) basement areas;
- One (1) from first floor, east hallway

- One (1) from second floor, west hallway
- One (1) outdoor sample was taken on the exterior south side of the building for comparison purposes.

Surface Fungi (mold)

Surface tape samples were collected from surfaces within selected areas that were visually observed to have or exhibit potential signs of microbial growth. Clear adhesive tape was attached to the suspect surface, and mounted on 25 by 75 mm microscope slides. Based upon PSI's visual observations at the time of the inspection, surface samples were collected from the following areas of visible fungal growth:

- Basement – East End, North Wall
- Basement – West End Hallway Wall
- Second Floor Southwest Section – Restroom
- Basement – East End, North Ceiling

The samples were transported under chain of custody to PSI's laboratory located in Pittsburgh, Pennsylvania for analyses. Samples were analyzed microscopically for fungi spore identification and enumeration. The most prevalent mold spores in each sample were identified. The laboratory is accredited by the American Industrial Hygiene Association (AIHA), Environmental Microbiology Laboratory Accreditation Program (EMLAP).

ANALYTICAL RESULTS

Airborne Total Fungi (mold)

For airborne samples, indoor levels and types were compared to the outdoor varieties with the best scenario being similar types but lower quantities. Seven (7) indoor air samples were collected in representative areas of the basement, first floor, and second floor, and one (1) outdoor sample was collected on the south side of the building exterior for comparison purposes. Results can be referenced in the laboratory report included with this report.

Results for airborne total fungal spores are expressed as spores per cubic meter of air (spores/m³). The table below summarizes the results:

Sample #	1	2	3	4	5	6	7	8
	Exterior South Side	Basement East End North Side	Basement East End South Side	Basement West End North Side	Basement West End Near Stairs	Tunnel	First Floor East Hall	Second Floor West Hall
ANALYTE TYPE – MOLD (Spores/m³)								
Hyphal Fragments	7	33	80	60 67 80	20			47
Cladosporium	13	40	120	--	80	190 13		27
Ascospores	--	7	13	--	--	13 --		13
Basidiospores	--	7	13	7	--	13 --		7
Smuts/Myxomycetes	7	20	20	13 20 27			7	40
Pen./Asp. Group	--	650	1100	40	27 53		--	13
Alternaria	--	7	7	-- 7 --			--	--
Curvularia	--	--	--	-- --		7	--	7
Unknown/Brown2	7	--	13	27	7 20 7			20
Torula sp.	--	7	--	-- -- -- --				--
Chaetomium sp.	--	7	7	190	7	--	--	--
Epicoccum	--	--	--	--	--	7 --		--
Nigrospora sp.	--	--	--	--	--	13	7	--
TOTAL	27	745	1,293	277	148	343	27	127

Note: Interior fungal results that are regarded as elevated in comparison to outdoor levels or are molds of concern, are bolded, italicized, and presented in larger print.

Air sampling is best used as a means to determine if there is amplification of microorganisms within the building as compared to naturally occurring microorganisms' outdoors. Air sampling may also be used to document the contribution of identified microorganisms and their sources to a particular air quality problem or complaint.

The air sample results indicated that the total airborne fungal spore levels inside the subject area were higher when compared to the level recorded outdoors. There are higher concentrations of multiple varieties of spores, mainly Penicillium/Aspergillus, in the indoor samples obtained compared to the outdoor sample. This may be indicative of indoor amplification of these types of molds.

Surface Fungi (mold)

PSI collected four (4) tape lift surface samples from areas of visible mold growth. Three (3) tape lift samples were collected from surfaces in the basement where there was visible mold. One (1) tape lift sample was taken from the second floor restroom on the west end of the building.

Tape Lift Sample #	T-1	T-2	T-3	T-4
	Basement East End North Wall	Basement West End Hall	Second Floor West End Restroom	Basement East End North Ceiling
ANALYTE TYPE – MOLD (Spores/m³)				
Hyphal Fragments	4+	4+	4+	4+
Cladosporium	4+	4+	4+	4+

Note: Quantifications of fungal spores are graded 1+ through 4+ with: 1+ = Occasional spores seen, 2+ = Few spores seen, 3+ = Moderate spores seen, and 4+ = Numerous spores seen.

Of the surface samples collected, the results indicated numerous (4+) *Hyphal fragments* and *Cladosporium* spores. Copies of the analytical results are enclosed with this document.

CONCLUSIONS

During the site reconnaissance, PSI noted areas of obvious moisture infiltration. Several of the areas observed contained visible mold growth in the area of moisture infiltration. Areas of moisture intrusion were observed and the moisture meter testing indicated that the levels were in acceptable ranges. Based on the results of the moisture meter testing, evidence of on-going water intrusion was not noted at the time of the inspection.

Noted areas of moisture infiltration included but are not limited to:

- Visible staining along the exterior walls of the basement;
- Several old pipe leaks in the basement area that have been repaired; and
- Stained ceilings.

Based on the analytical results from air borne and surface sample s collected on February 12, 2012, PSI believes that indoor amplification of spore concentrations is occurring in the building.

Photographs of the noted areas of moisture infiltration are enclosed with this report.

RECOMMENDATIONS

Based on this evaluation, PSI recommends taking measures to conduct a general cleaning of the areas with visible mold and elevated spore counts and taking measures to eliminate any potential on-going moisture intrusion. PSI will prepare a fungal remediation specification for the next phase of this project, and clean-up work should be completed in accordance with the specification.

WARRANTY

PSI warrants that the findings contained herein have been prepared with the level of care and skill ordinarily exercised by professionals practicing in the community. The scope of work addressed readily accessible and exposed interior building areas. Observation or sampling of inaccessible areas such as behind walls or within ductwork was not performed. PSI's investigation did not address determining a source of moisture intrusion into the structure.

No other warranties are implied or expressed.

USE BY THIRD PARTIES

This report was prepared pursuant to the contract Piper-Wind Architects, Inc. has with PSI. That contractual relationship included an exchange of information about the subject site that was unique and between PSI and Piper-Wind Architects, Inc. and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and Piper-Wind Architects, Inc. reliance or any use of this report by anyone other than for whom it was prepared, and Jackson County, Missouri, is prohibited and therefore not foreseeable to PSI. Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to PSI's contract with Piper-Wind Architects, Inc. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

UNIDENTIFIED CONDITIONS

This limited fungal evaluation report has been developed to provide the client with information regarding apparent conditions relating to the subject property. Although PSI believes that the findings and conclusions provided in this report are reasonable, the evaluation is necessarily limited to the conditions observed and to the information available at the time of the work. Due to the nature of the work, there is a possibility that conditions may exist which could not be identified within the scope of the work or which were not apparent at the time of our site work. The evaluation is also limited to information available from the client at the time it was conducted. It is also possible that

the testing methods employed at the time of the report may later be superseded by other methods. PSI does not accept responsibility for changes in the state of the art.

Please call with any questions you may have, or if PSI can be of additional service.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.



John Starr
Project Specialist



Sherri Jones
Department Manager



Greg Chambliss, RPIH, LEED AP
Principal Consultant

Enclosures Appendix A - Photographs
 Appendix B - Laboratory Results

APPENDIX A

PHOTO LOG



Basement East Side North End



Basement East Side North End Ceiling



Basement East Side North End West Section



Basement East Side Room North of Vault



Basement West Side Near Boiler Room



Basement West Side Hall



Second Floor West End Bathroom

APPENDIX B

LABORATORY RESULTS

SPORE TRAP REPORT

 PSI, Inc
 1211 West Cambridge Circle Drive
 Kansas City, KS 66103

Attn: Sherri Jones

 DATE
 Reported: 2/15/12
 Analyzed: 2/15/12
 Received: 2/14/12
 Sampled: 2/12/12

 Work Order: 1202286
 Project Number: 0603477
 Project Name: Jackson Co. Historic Courthouse

Analyst: JM

AIHA EMLAP #100373

TEST METHOD: PSI-WI-620-838

LAB NUMBER:	001A			002A			003A		
Client ID:	1			2			3		
Location:									
Sample Condition:	Acceptable			Acceptable			Acceptable		
Comments:							Please see last page		
Detection Limit(spores/m ³):	7			7			7		
Hyphal Fragments	1	7		5	33		12	80	
Pollen							1	7	
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	2	13	50.00	6	40	5.36	18	120	9.00
Ascospores				1	7	0.89	2	13	1.00
Basidiospores				1	7	0.89	2	13	1.00
Smuts/Myxomycetes	1	7	25.00	3	20	2.68	3	20	1.50
Peronospora/Oidium sp.									
Pen./Asp. Group				98	650	87.50	171	1100	85.50
Alternaria sp.				1	7	0.89	1	7	0.50
Drechslera/Bipolaris									
Amerospores1									
Arthrinium sp.									
Curvularia sp.									
Stachybotrys sp.									
Unknown/Brown2	1	7	25.00				2	13	1.00
Torula sp.				1	7	0.89			
Ulocladium sp.									
Chaetomium sp.				1	7	0.89	1	7	0.50
Pithomyces sp.									
Epicoccum sp.									
Fusicladium									
Clear Brown2									
Cercospora sp.									
Rusts									
Nigrospora sp.									
Background debris (1-5) ³	2			3			4		
Sample Volume (liters)	150			150			150		
TOTAL SPORES/M³	4	27	100	112	745	100	200	1,293	100

Total % may not equal 100 due to rounding.

SPORE TRAP REPORT

PSI, Inc
1211 West Cambridge Circle Drive
Kansas City, KS 66103

Attn: Sherri Jones

DATE
Reported: 2/15/12
Analyzed: 2/15/12
Received: 2/14/12
Sampled: 2/12/12

Work Order: 1202286
Project Number: 0603477
Project Name: Jackson Co. Historic Courthouse

Analyst: JM

AIHA EMLAP #100373

TEST METHOD: PSI-WI-620-838

LAB NUMBER:	004A			005A			006A		
Client ID:	4			5			6		
Location:									
Sample Condition:	Acceptable			Acceptable			Acceptable		
Comments:	Please see last page			Please see last page			Please see last page		
Detection Limit(spores/m ³):	7			7			7		
Hyphal Fragments	9	60		10	67		12	80	
Pollen	2	13					1	7	
Sample Description:	Air-O-Cell			Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.				12	80	54.55	29	190	55.77
Ascospores							2	13	3.85
Basidiospores	1	7	2.44				2	13	3.85
Smuts/Myxomycetes	2	13	4.88	3	20	13.64	4	27	7.69
Peronospora/Oidium sp.									
Pen./Asp. Group	6	40	14.63	4	27	18.18	8	53	15.38
Alternaria sp.				1	7	4.55			
Drechslera/Bipolaris									
Amerospores1									
Arthrinium sp.									
Curvularia sp.							1	7	1.92
Stachybotrys sp.									
Unknown/Brown2	4	27	9.76	1	7	4.55	3	20	5.77
Torula sp.									
Ulocladium sp.									
Chaetomium sp.	28	190	68.29	1	7	4.55			
Pithomyces sp.									
Epicoccum sp.							1	7	1.92
Fusicladium									
Clear Brown2									
Cercospora sp.									
Rusts									
Nigrospora sp.							2	13	3.85
Background debris (1-5) ³	4			4			4		
Sample Volume (liters)	150			150			150		
TOTAL SPORES/M³	41	277	100	22	148	100	52	343	100

Total % may not equal 100 due to rounding.

SPORE TRAP REPORT

PSI, Inc
1211 West Cambridge Circle Drive
Kansas City, KS 66103

Attn: Sherri Jones

DATE
Reported: 2/15/12
Analyzed: 2/15/12
Received: 2/14/12
Sampled: 2/12/12

Work Order: 1202286
Project Number: 0603477
Project Name: Jackson Co. Historic Courthouse

Analyst: JM

AIHA EMLAP #100373

TEST METHOD: PSI-WI-620-838

LAB NUMBER:	007A			008A		
Client ID:	7			8		
Location:						
Sample Condition:	Acceptable			Acceptable		
Comments:						
Detection Limit(spores/m ³):	7			7		
Hyphal Fragments	3	20		7	47	
Pollen						
Sample Description:	Air-O-Cell			Air-O-Cell		
	raw ct.	spores/m ³	%	raw ct.	spores/m ³	%
Cladosporium sp.	2	13	50.00	4	27	21.05
Ascospores				2	13	10.53
Basidiospores				1	7	5.26
Smuts/Myxomycetes	1	7	25.00	6	40	31.58
Peronospora/Oidium sp.						
Pen./Asp. Group				2	13	10.53
Alternaria sp.						
Drechslera/Bipolaris						
Amerospores1						
Arthrinium sp.						
Curvularia sp.				1	7	5.26
Stachybotrys sp.						
Unknown/Brown2	1	7	25.00	3	20	15.79
Torula sp.						
Ulocladium sp.						
Chaetomium sp.						
Pithomyces sp.						
Epicoccum sp.						
Fusicladium						
Clear Brown2						
Cercospora sp.						
Rusts						
Nigrospora sp.						
Background debris (1-5) ³	3			4		
Sample Volume (liters)	150			150		
TOTAL SPORES/M³	4	27	100	19	127	100

Total % may not equal 100 due to rounding.

SPORE TRAP REPORT

PSI, Inc
1211 West Cambridge Circle Drive
Kansas City, KS 66103

DATE
Reported: 2/15/12
Analyzed: 2/15/12
Received: 2/14/12
Sampled: 2/12/12

Work Order: 1202286
Project Number: 0603477
Project Name: Jackson Co. Historic Courthouse
Analyst: JM

Attn: Sherri Jones

Specific Sample Comments:

- 003A: **Spore count may be underestimated due to large amount of particulate matter.**
- 004A: **Spore count may be underestimated due to large amount of particulate matter.**
- 005A: **Spore count may be underestimated due to large amount of particulate matter.**
- 006A: **Spore count may be underestimated due to large amount of particulate matter.**

General Report Comments:

- 1 = Amerospores are spores not divided into parts by septa.
- 2 = Colorless, Unknown/brown, clear brown are spores without a distinctive morphology on spore traps and non-viable surface samples.
- 3 = Background debris is the amount of particulate matter present on the slide and is graded from 1-5 with 1 being very little, while a debris rating of 5 is unreadable.
The higher the rating the more likelihood spores may be underestimated.
A rating of 4 should be interpreted as minimal counts and may actually be higher than reported.

The reporting limit is one spore/item adjusted for volume.

Results relate only to items tested. Results are not corrected for blank data.

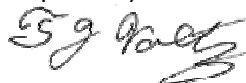
This report may not be reproduced except in full, without written approval of PSI, Inc.

Samples will be disposed of within thirty (30) days unless notified in writing by the client.

Results based on volume measurement provided by the client.

Disclaimer: The laboratory is not responsible for interpretation of test results or for methods used during sampling.

Respectfully submitted, PSI, Inc.



Tim Voltz, Approved Signatory



DIRECT EXAM SWAB/BULK/SURFACE REPORT

PSI, Inc
1211 West Cambridge Circle Drive
Kansas City, KS 66103

Attn: Sherri Jones

DATE
Reported: 2/15/12
Analyzed: 2/15/12
Received: 2/14/12
Sampled: 2/12/12

Work Order: 1202287
Project Number: 0603477
Project Name: Jackson Co. Historic Courthouse

Analyst: JM

AIHA EMLAP #100373

TEST METHOD: PSI-WI-621-838

LAB NUMBER:	001A	002A	003A	004A
Client ID:	T1	T2	T3	T4
Location:				
Sample Condition:	Acceptable	Acceptable	Acceptable	Acceptable
Comments:				
Sample Description:	Surface	Surface	Surface	Surface
Hyphal Fragments	4+	4+	4+	4+
Pollen				
Cladosporium sp.	4+	4+	4+	4+
Ascospores				
Basidiospores				
Smuts/Myxomycetes				
Peronospora/Oidium sp.				
Pen./Asp. Group				
Alternaria sp.				
Drechslera/Bipolaris				
Amerospores1				
Arthriniium sp.				
Curvularia sp.				
Stachybotrys sp.				
Unknown/Brown2				
Torula sp.				
Ulocladium sp.				
Chaetomium sp.				
Pithomyces sp.				
Epicoccum sp.				
Fusicladium				
Clear Brown2				
Cercospora sp.				
Rusts				
Nigrospora sp.				

See final page for general and specific comments

DIRECT EXAM SWAB/BULK/SURFACE REPORT

PSI, Inc
1211 West Cambridge Circle Drive
Kansas City, KS 66103

DATE

Reported: 2/15/12
Analyzed: 2/15/12
Received: 2/14/12
Sampled: 2/12/12

Work Order: 1202287
Project Number: 0603477
Project Name: Jackson Co. Historic Courthouse

Attn: Sherri Jones

Analyst: JM

Specific Sample Comments:

General Report Comments:

- 1 = Amerospores are spores not divided into parts by septa.
- 2 = Colorless, Unknown/brown, clear brown are spores without a distinctive morphology on spore traps and non-viable surface samples.
- 3 = Quantification of fungal spores are graded 1+ through 4+ with:
 - 1+ = Occasional spores seen
 - 2+ = Few spores seen
 - 3+ = Moderate spores seen
 - 4+ = Numerous spores seen

Results relate only to items tested.

This report may not be reproduced except in full, without written approval of PSI, Inc.

Samples will be disposed of within thirty (30) days unless notified in writing by the client.

Disclaimer: The laboratory is not responsible for interpretation of test results or for methods used during sampling.

Respectfully submitted, PSI, Inc.



Tim Voltz, Approved Signatory

1202286

1202287



Information
To Build On

CHAIN OF CUSTODY RECORD

PROJECT NAME Jackson Co. Historic Courthouse	REPORT TO RCPSR	INVOICE TO Saw	LABORATORY SUBMITTED TO: <input type="checkbox"/> 25 Dubon Court Farmingdale, NY 11735 516/752-1226	LABORATORY USE ONLY ANALYTICAL DUE DATE REPORT DUE DATE PSI PROJECT NAME PSI PROJECT NUMBER PSI BATCH NUMBER	LABORATORY USE ONLY FIELD SERVICES Y/N \$ SHIPPING Y/N \$
PROJECT NUMBER 0603427	PROJECT MANAGER Sherri Jones	ADDRESS 1211 W. Cambridge Cir. Dr. /CCKL 66102	<input type="checkbox"/> 850 Poplar Street Pittsburgh, PA 15220 412/922-4000	<input type="checkbox"/> OTHER	
P.O. NUMBER Standard.	ADDRESS 1211 W. Cambridge Cir. Dr. /CCKL 66102	CITY / STATE / ZIP 913-310-1600	<input type="checkbox"/> 4820 W. 15th Street Lawrence, KS 66049 800/548-7901		
REQUIRED DUE DATE (MM-DD-YY) Fed Ex	TELEPHONE 913-310-1600	ATTENTION Waukesha, WI 53186 414/970-9022	<input type="checkbox"/> 211 E. Imperial Hwy., Suite 201 Fullerton, CA 92835 714/526-8901		
SAMPLES TO LAB VIA Fed Ex	FAX	TELEPHONE	<input type="checkbox"/> W228 N727 Westmount Dr., Suite A Waukesha, WI 53186 414/970-9022		
NUMBER OF COOLERS/PACKAGES	REPORT DATA VIA <input type="checkbox"/> VERBAL <input type="checkbox"/> FAX	<input type="checkbox"/> OVERNIGHT <input type="checkbox"/> U.S. MAIL			
RELINQUISHED BY [Signature]	DATE / TIME 2/13/12 8:45 AM	ACCEPTED BY [Signature]	DATE / TIME 2/14/12	SEAL NUMBER	
SAMPLE CUSTODIAN	LABORATORY USE ONLY DATE / TIME	SAMPLE IDENTIFICATION 1-8 F1-T4	DATE / TIME 2/12/12 2/12/12	AIR-A BULK-B DUST-D NOISE-N PAINT-P	LAB USE ONLY SOIL-S VACUUM-V WASTE-W WATER-W WIFE-WP
ADDITIONAL REMARKS	LABORATORY USE ONLY NUMBER OF CONTAINERS	LABORATORY USE ONLY 8 X 4 X	/SD L each		

PSI A-600-10 (5)

ADDITIONAL REMARKS

SAMPLER'S SIGNATURE

Your signature and photo are required on the back side of this document.

**ATTACHMENT B: REFERENCES:
ESTABLISHED GUIDELINES FOR MOLD REMEDIATION**

1. "Guidelines on Assessment and Remediation of Fungi in Indoor Environments," New York City Department of Health & Mental Hygiene, Bureau of Environmental & Occupational Disease Epidemiology, April 2002.
2. "Mold Remediation in Schools and Commercial Buildings," U.S. Environmental protection Agency, EPA 402-K-01-001, March 2001.
3. Institute of Inspection Cleaning and Restoration Certification (IICRC) S500 *Standard and Reference Guide for Professional Water Damage Restoration.*
4. Institute of Inspection Cleaning and Restoration Certification (IICRC) S520 *Standard and Reference Guide for Fungal Remediation.*
5. "NADCA General Specifications for the Cleaning of Commercial Heating, Ventilating, and Air Conditioning Systems," National Duct Cleaners Association.

1.2 Lead-Based Paint Abatement Work Plan

LEAD-BASED PAINT ABATEMENT WORK PLAN

For

**Jackson County Historic Truman Courthouse
102 North Main Street
Independence, MO 64050**

Prepared for

**Jackson County Public Works Department
303 West Walnut Street
Independence, Missouri 64050**

**PSI PROJECT NUMBER 0603-477
JACKSON COUNTY PROJECT NO. 3147A**

April 16, 2012

Prepared by

**PROFESSIONAL SERVICE INDUSTRIES, INC.
1211 West Cambridge Circle Drive
Kansas City, Kansas 66103
Telephone (913) 310-1600
Fax (913) 310-1601**

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1. SECTION 1 – SCOPE OF WORK

1.1. General

Related Documents: General provisions of the Contract, including General and Supplementary Conditions, and other Sections may apply to work of this Section. Reference the U.S. Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (June 1995), OSHA Lead Standard Title 29, Part 1926.62 of the Code of Federal Regulations, EPA's Lead-Based Paint Renovation, Repair and Painting Program, and Missouri Department of Health Chapter 701 – Revised Statutes and Regulations Relating to Lead Poisoning Prevention and Lead Licensing and Accreditation, as well as any local regulations pertaining to lead-based paint work.

Lead-based paint removal work shall be completed in conjunction and accordance with the Fungal Remediation, Asbestos Abatement, and Selective Demolition Specifications. The Jackson County Historic Truman Courthouse is a historical building and care should be taken during the work to maintain the integrity of existing materials and finishes present in the building.

1.2. Project/Work Identification

This specification is for the removal of loose and flaking lead-based paint from the interior of the Jackson County Historic Courthouse at 102 North Main Street in Independence, Mo.

Additional related specifications, work plans, requirements, and conditions are included as part of this Project Manual.

1.3. General Outline of Scope of Work

Briefly, the work of the Contract can be summarized as follows.

- Proper removal and disposal of approximately 10,000 square feet of deteriorated lead-based paint or lead-based paint on deteriorated building components on the interior plaster walls and ceilings of the Jackson County Historic Truman Courthouse. The Contractor shall remove paint or deteriorated plaster substrate until intact paint or a stable substrate is encountered.
- All surfaces where lead-based paint removal occurs shall be sealed with a lead sealant.
- Proper removal and disposal of approximately 1,000 square feet of loose and flaking lead-based paint on piping, wall components, and other building components. The Contractor shall remove paint until intact paint is encountered. The surface where the paint was removed and a minimum of 12" into intact paint shall be sealed with a lead sealant.

- Unknown quantities of deteriorated lead-based paint or deteriorated plaster coated with lead-based paint may be present behind existing building finishes (i.e. drop ceiling tiles, glued in place ceiling tiles, fiber board walls, etc.). Following demolition activities outlined in the Selective Demolition Specification, any newly exposed deteriorated lead-based paint shall be removed in accordance with this Work Plan.
- The quantities are estimates only and the Contractor shall verify all quantities described in the scope of work. The work includes the removal and proper disposal of loose and flaking lead-based painted building materials according to the following requirements.

1.4. Plan of Action

Submit a detailed removal and disposal plan of the procedures proposed for use in complying with the requirements of the specification. Include in the Plan of Action the location and layout of decontamination areas, the sequencing of lead abatement work, the interface of trades involved in the performance of work, disposal methods including location of approved disposal site, methods for prevention of lead contamination and to prohibit visible emissions in the work area, and methods of packaging removed lead-based painted building materials. The plan must be approved by the Environmental Consultant prior to commencement of work. Failure to submit the Plan of Action in a timely fashion will not constitute an extension of time for the project.

1.5. Potential Lead Hazard

The disturbance or dislocation of lead-based painted building materials may cause lead contaminated dust to be released into the building's atmosphere, thereby creating a potential health hazard to workers. Apprise all workers, supervisory personnel, subcontractors and consultants who will be at the job site of the seriousness of the hazard and of proper work procedures which must be followed. Posting of the work area is referenced in paragraphs 1.10 and 3.2 of these specifications.

During the performance of the work, workers, supervisory personnel, and subcontractors, who encounter, disturb, or otherwise function in the immediate vicinity of any identified lead-containing materials, must take appropriate, continuous measures as necessary to protect all building occupants from the potential hazard of exposure to air borne lead-contaminated dust. Such measures shall include the procedures and methods described herein, and compliance with applicable regulations of Federal, State and local agencies.

1.6. Medical Removal

The Occupational Safety and Health Administration (OSHA) requires that workers be removed from any job site due to lead exposure if:

- Blood level is greater than 50 µg/dl.
- When the physician recommends removal on the basis of other medical evidence.

1.7. Stop Work

If the Owner, Owner's Representative, or Environmental Consultant presents a written stop work order, immediately and automatically stop all work and secure the area. Do not recommence work until authorized in writing by the Owner, Owner's Representative, or Environmental Consultant.

1.8. Lead-Containing Materials

The lead-based paint coated building materials listed in the Scope of Work and the Lead-Based Paint Report attached in Appendix A are known to be present at the work site. If any other materials are found, which are suspected of containing lead, immediately notify the Environmental Consultant.

1.9. Contractor Use of Premises

Contractor's Use of the Existing Building: Maintain existing buildings in a safe weather tight condition throughout the construction period. Take necessary precautions to protect the building and its occupants during the construction period. Smoking, eating, and drinking will not be permitted within the immediate work area or enclosure.

1.10. Submittals

Before the start of work, submit the following submittals to the Environmental Consultant for review. Do not begin work until these submittals are returned with Environmental Consultant's approval indicating that the submittal is returned for unrestricted use or final-but -restricted use. Failure to deliver submittals in a timely fashion will not constitute an extension of time for this project.

- Plan of Action: Submit as a written report in the same manner as product data.
- Waste Hauler License: Submit a copy of the State or local license for the proposed waste hauler, if applicable.
- Landfill Identification: Submit the name and address of the landfill or disposal site where lead-containing waste materials are to be dumped. The landfill must be approved by Missouri Department of Natural Resources. Include contact persons and telephone numbers, if applicable.
- Chain of Custody Form for the Waste Shipment Record: Submit sample of Chain of Custody Form to be used.
- Respiratory Protection Program: Submit Contractor's written respiratory protection program manual as required by OSHA 29 CFR 1910.1025.

- **Respirator Fit Test Records:** Submit current fit test records for all workers to be employed on this project.
- **Medical Surveillance:** Submit current documentation for all employees directly involved with this project. The records shall include exposure doctors approval for wearing a respirator, as well as clearance to work with lead.
- **State and Local License:** Submit evidence that all workers have been trained, certified and/or accredited in lead abatement as required by Federal, State, and local codes or regulations.
- **Certification of Worker's Acknowledgement for Each Worker:** Submit certificate of Worker's Acknowledgement attached to these specifications for each worker involved with this project.
- **Permits, Licenses, and Certificates (if applicable):** For the Owner's records, submit copies of waste shipment records, permits, licenses, certifications, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, and similar documents, correspondence and records established in conjunction with compliance with standards and/or regulations bearing upon the performance of the work.
- **Material Safety Data Sheet:** Submit the Material Safety Data Sheets (MSDS) in accordance with the OSHA hazard communication standard for all materials proposed for use in abatement operations.
- **Decontamination Unit:** Provide a shop drawing showing the proposed location(s) and construction of decontamination units.

1.11. Definitions

- **Abatement:** The process to reduce lead exposure from lead-containing building materials.
- **Air Monitoring:** The process of measuring the lead content of a specific volume of air in a stated period of time.
- **Amended Water:** Water to which a surfactant has been added.
- **Lead Control Area:** An area where lead removal operations are performed which is sealed and/or isolated by physical barriers to prevent the spread of lead-contaminated dust.
- **Clean Room:** An uncontaminated area or room, with provisions for clean storage of workers' clothes and protective equipment.
- **High Efficiency Particulate Air (HEPA) Filters:** Filters capable of trapping and retaining 99.97 percent of fibers greater than 0.30 microns in size.
- **HEPA Vacuum Equipment:** Filtered vacuuming equipment with a UL 586 filter system capable of collecting and retaining microscopic fibers.

- **Regulated Area:** A work area protected by polyethylene sheeting where lead removal operations are performed within a Lead Control Area.
- **Removal:** The act of removing and transporting lead-based painted building materials from the work site to a suitable disposal site.
- **Surfactant:** A chemical wetting agent, added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.
- **Wet Cleaning:** The process of eliminating lead contamination from building surfaces and objects by using cloths, mops or other cleaning tools which have been dampened with amended water.
- **Waste Generator:** Any owner or operator of a source covered by RCRA regulations whose act or process produces lead-containing waste.
- **Work Area:** A regulated area protected by polyethylene sheeting where lead removal operations are performed within a Lead Control Area.

SECTION 2 – PRODUCTS

2.1. Materials

- **Polyethylene Sheeting:** A single polyethylene film in the largest sheet size possible to minimize seams, 6.0 mil thick; clear, frosted, or black as indicated.
- **Duct Tape:** Provide duct tape in 2" or 3" widths as indicated, with an adhesive which is formulated to stick aggressively to polyethylene sheeting.
- **Spray Adhesive:** Shall not contain methylene chloride, as listed on the product's label and/or Material Safety Data Sheet (MSDS). Provide spray adhesive in aerosol cans which is specifically formulated to stick tenaciously to polyethylene sheeting.
- **Coveralls:** Shall conform to OSHA Standards 29 CFR 1926.62. Provide disposable full-body coveralls and disposable head covers.
- **Half-Face Respirators and HEPA Filters:** Provide appropriate respirators and filters used in lead abatement with a minimum protection factor of 10 for work environments up to 500 $\mu\text{g}/\text{m}^3$.
- **Vacuum and Exhaust Equipment:** provide HEPA filtered vacuum and exhaust equipment with appropriate HEPA filters for lead contaminated dust particles.
- **Lead Sealant:** L-B-C Lead Barrier Compound Type III-Interior/Exterior

2.2. Respiratory Protection

2.2.1 Type of Respirators: Instruct and train each worker involved with lead abatement in proper respirator use and require that each worker will always wear a properly fitted respirator in the Work Area from the start of any operation which may cause airborne lead dust until the Work Area is completely decontaminated. Use respiratory protection appropriate for the lead contaminated dust levels encountered in the work place or as required for other toxic or oxygen-deficient situations encountered.

2.2.2 Standards: Except to the extent that more stringent requirements are written directly into the Contract Documents, the following regulations and standards have the same force and effect, and are made a part of the Contract Documents by reference, as if copied directly into the Contract Documents, or as if published copies were bound herewith. Where there is a conflict in requirements set forth in these regulations and standards, the more stringent requirement shall govern.

OSHA - U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards 29 CFR 1926.62 and Section 1910.134.

CGA - Compressed Gas Association, Inc., New York, Pamphlet G-7, "Compressed Air for Human Respiration", and Specification G-7.1 "Commodity Specification for Air".

ANSI - American National Standard Practices for Respiratory Protection, ANSI Z88.2-1980.

HUD - Department of Housing and Urban Development, Guidelines for the Evaluation and Control of Lead-based Paint Hazards in Housing (June 1995).

NIOSH - National Institute for Occupational Safety and Health.

MSHA - Mine Safety and Health Administration.

2.2.3 Respiratory Protection Program: Comply with ANSI Z88.2 - 1980 "Practices for Respiratory Protection".

- Require respiratory protection be used when there is any possibility of disturbance of lead-based painted building materials, whether intentional or accidental.
- Require that a respirator be worn by anyone in a Lead Control Area at all times regardless of activity, during a period that starts with any

operation which could cause airborne lead contaminated dust, until the area has been cleared for re-occupancy in accordance with Part 3 of these specifications.

- Regardless of airborne lead levels, require a half-face air-purifying respirator with high efficiency filters as a minimum level of respiratory protection.

2.2.4 Fit Testing:

- Initial Fitting: Provide initial fitting of respiratory protection during a respiratory protection course of training under the direction of a qualified person. Fit test type of respirator to be actually worn by each individual. Allow an individual to use only those respirators for which training and fit testing has been provided.
- As needed or required, check the fit of each worker's respirator by having irritant smoke blown onto the respirator from a smoke tube.
- Upon Each Wearing: Require that each time an air-purifying respirator is put on, it shall be checked for fit with a positive and negative pressure user seal test in accordance with the manufacturer's instructions or ANSI Z88.2 (1980).

2.2.5 Type of Respiratory Protection Required:

Provide Respiratory Protection as indicated in paragraph 2.2.6 Respirator Protection Factors. Where paragraph 2.2.6 does not apply, determine the proper level of protection by dividing the expected or actual airborne lead count in the Work Area by the "protection factor" given below. The level of respiratory protection which supplies an airborne lead level inside the respirator, at the breathing zone of the wearer, at or below the permissible exposure limit (PEL) is the minimum level of protection allowed.

2.2.6 Respiratory Protection Factors:

<u>Respiratory Type</u>	<u>Protection Factor</u>
Air Purifying: Negative pressure respirator High efficiency filter Half facepiece	10
Air purifying: Negative pressure respirator High efficiency filter Full facepiece, Quantitative Fit Test	50

Powered Air Purifying (PAPR): Positive pressure respirator, Tight-fitting High efficiency filter Half facepiece	50
Powered Air Purifying (PAPR): Positive pressure respirator, Tight-fitting High efficiency filter Full facepiece	1,000
Type C supplied air: Positive pressure respirator Pressure demand or other Positive pressure mode Half facepiece	50
Type C supplied air: Positive pressure respirator Pressure demand or other Positive pressure mode Full facepiece	1,000

2.2.7 Air Purifying Respirators

- Negative Pressure - Half or Full Face Mask: Supply a sufficient quantity of respiratory filters approved for lead dust, so that workers can change filters as required. Respirators shall be wet-rinsed and filters discarded each time a worker leaves the Work Area. Require that new filters be installed each time a worker re-enters the Work Area. Store respirators and filters at the job site in the Clean Room and protect totally from exposure to lead prior to their use.
- Powered Air Purifying - Half or Full Face Mask: Supply a sufficient quantity of high efficiency respirator filters approved for lead contaminated dust so that workers can change filters at any time that flow through the face piece decreases to the level at which the manufacturer recommends filter replacement. Regardless of flow, filter cartridges should be replaced after 40 hours of use. HEPA elements in filter cartridges should be protected from wetting during showering. The exterior housing of respirator, including blower unit, filter cartridges, hoses, battery pack, face mask, belt, and cords, should be washed each time a worker leaves the Work Area. Caution should be used to avoid electrical shorting of battery

pack during washing. Provide an extra battery pack for each respirator so that one can be charging while one is in use.

SECTION 3 - EXECUTION

3.1. Description of Work

- Proper removal and disposal of approximately 10,000 square feet of deteriorated lead-based paint or lead-based paint on deteriorated building components on the interior plaster walls and ceilings of the Jackson County Historic Court House. The Contractor shall remove paint or deteriorated/damaged plaster substrate (coated with lead-based paint) until intact paint or a stable substrate is encountered.
- All surfaces where lead-based paint removal occurs shall be sealed with the specified lead sealant.
- Proper removal and disposal of approximately 1,000 square feet of loose and flaking lead-based paint on piping, wall components, and other building components. The Contractor shall remove paint until intact paint is encountered.
- The surface where the paint was removed and a minimum of 12" into intact paint shall be sealed with a lead sealant.
- Unknown quantities of deteriorated lead-based paint or deteriorated plaster coated with lead-based paint may be present behind existing building finishes (i.e. drop ceiling tiles, glued in place ceiling tiles, fiber board walls, etc.). Following demolition activities outlined in the Selective Demolition Specification, any newly exposed deteriorated lead-based paint shall be removed in accordance with this Work Plan.
- The quantities are estimates only and the Contractor shall verify all quantities described in the scope of work. The work includes the removal and proper disposal of loose and flaking lead-based painted building materials according to the following requirements.

3.2. Enclosure Requirements

- When the historical air monitoring data or pilot operation results indicate that the 8-hour lead exposure will not exceed the OSHA PEL of 50 $\mu\text{g}/\text{m}^3$, non-enclosure requirements as described below may be used. If measured lead levels exceed the PEL at any time during the course of the work or visual emissions are detected, the Contractor will be required to take immediate corrective action. If the corrective actions do not reduce concentrations below the PEL, the Environmental Consultant will require the contractor to stop work and construct containment systems.
- The Contractor may use existing electrical service to the building for temporary electrical power during abatement work so long as Ground Fault Circuit Interrupters (GFCIs) are utilized.

- The Contractor, in coordination with the Owner, shall shut down or isolate heating, cooling, and ventilating air systems to the work areas.
- Before the work is begun, and unless otherwise specified, the Owner shall remove from work areas all removable items and equipment not located on the materials to be removed as specified. Please reference the selective demolition specification for additional detail.
- Pre-clean fixed objects within the work area, first using HEPA vacuum equipment and then wet cleaning methods as appropriate, and completely enclose with minimum 6-mil thick plastic sheeting sealed with tape.
- The Contractor shall install a polyethylene containment separating the work area from the occupied area utilizing industry standard methods.
- The containment shall be sufficient to keep non-authorized personnel from entering into the containment.
- Install HEPA-filtered negative air machine within the area where abatement is being performed to cause a negative pressure inside the containment.
- Use proper engineering controls to minimize dust and if power tools are used, a HEPA attachment and HEPA vacuum must be utilized.

3.3. Decontamination Enclosure Systems

- 3.3.1 General: The Contractor shall use decontamination units acceptable to Missouri Department of Health, EPA and OSHA, connected to work area with framed-in tunnels, and line tunnels with plastic, sealed with tape at all joints in the plastic, or shall construct decontamination units on-site.
- 3.3.2 Access: In all cases, access between contaminated rooms or areas shall be through an air lock. In all cases, access between any two rooms within the decontamination enclosure systems shall be through an air lock.
- 3.3.3 Worker Decontamination Facility: Construct a worker decontamination enclosure system consisting of three totally enclosed chambers as follows:
- An equipment room with two curtained doorways, one to the work area and one to the shower room, via an air lock. Negative pressure ventilation equipment shall be attached and exhausted to the exterior.
 - A shower room with two curtained doorways, one to the equipment room and one to the clean room, via air locks. The shower room shall contain at least one shower with hot and cold or warm water with individual shut-off valves inside the showers. Careful attention shall be paid to the shower enclosure to insure against leakage of any kind. Ensure a supply of soap at all times in the shower room. Drainage from showers shall be disposed of as contaminated water.

or filtered as required by material safety data sheets.

- A clean room with one curtained doorway into the shower (via an air lock) and one entrance or exit to non-contaminated areas of the building. The clean room shall have sufficient space for storage of the workers' street clothes, towels, and other non-contaminated items.

3.3.4 Equipment Decontamination Facility: A separate equipment decontamination enclosure system shall be constructed for the removal of waste from the containment. This equipment decontamination enclosure system shall be constructed in accordance with normal practices in the asbestos industry.

3.4. Abatement Monitoring and Test Laboratory Services

3.4.1 Description of the Work: Abatement monitoring carried out by the Owner to verify that the building beyond the work area and the outside environment remains uncontaminated. The specification also sets forth airborne lead dust levels both inside and outside the work area as action levels, and describes the action required by the Contractor if an action level is met or exceeded.

3.4.2 Abatement Monitoring:

- Work Area Isolation: The purpose of the Owner's abatement monitoring is to detect faults in the work area isolation such as:
 - a. Contamination of the building outside of the work area with airborne lead particles.
 - b. Failure of filtration or rupture in the differential pressure system causing contamination of air outside the building with airborne lead dust.
- Should any of the above occur, immediately cease lead abatement activities until the fault is corrected. Do not recommence work until authorized by the Environmental Consultant.
- Work Area Airborne Lead Levels: The Owner may monitor airborne lead dust levels in the work area. The purpose of this air monitoring will be to detect airborne lead concentrations which may challenge the ability of the work area isolation procedures to protect the balance of the building or outside of the building from contamination by airborne lead particles.
- Work Area Clearance: To determine if the elevated airborne lead levels encountered during abatement operations have settled and

subsequently been removed by cleaning, the Owner will collect and analyze wipe samples.

- The Owner will be conducting abatement monitoring throughout the course of the project.
- Stop Action Levels: If at any time in the abatement process, the outside work area air monitoring results indicate that the lead concentration is at or above the OSHA PEL (50 $\mu\text{g}/\text{m}^3$), or 25 $\mu\text{g}/\text{m}^3$ above the background level, whichever is lesser, CEASE ALL WORK except corrective action. After correcting cause of high lead levels outside the work area, HEPA vacuum all surfaces that potentially could be contaminated; wet wipe all wettable surfaces using TSP solution; and HEPA vacuum a second time. If the cause of high lead levels is inconclusive, or if a second outside high lead level samples is obtained, the Contractor will immediately go to the next higher containment level.

3.4.3 Laboratory Testing: The services of a testing laboratory will be employed by the Owner to perform laboratory analyses of the air samples. A technician will be at the job site at various times during the removal process and periodic samples will be taken.

- A complete record of all air monitoring and results will be furnished to the Owner and the Contractor.
- Written Reports of all abatement monitoring tests will be posted at the job site upon receipt.

3.4.4 OSHA Compliance:

- All contractors and their employees that are potentially exposed to lead levels in excess of the OSHA Action Limit (30 $\mu\text{g}/\text{m}^3$) must comply with the OSHA requirements for medical surveillance, exposure monitoring and training and education.
- The Contractor must conduct all OSHA required abatement monitoring and medical surveillance at no cost to the Owner.
- The Contractor must submit all results of the required monitoring and medical surveillance before the project can be closed out. If Contractor fails to furnish all data or if Contractor fails to properly act on the results, the Owner reserves the right to delay final payment.

3.5 General Removal Procedures

Setup and management of the Lead Control Area is to be under the supervision of a General Superintendent as described.

- Prior to commencing work, comply with requirements for Worker and Respiratory Protection.

- Do not allow eating, drinking, smoking and chewing tobacco or gum in the Lead Control Area.
- Prior to commencing work, clean existing dust or debris from the floor, walls and other surfaces in the immediate location of the work by damp-mopping or by HEPA filtered vacuum.
- Cover floor in the vicinity of the Work Area with 6-mil polyethylene drop sheet. Where work is adjacent to walls, extend polyethylene sheeting up walls and secure with duct tape.
- Seal all openings, doors, windows, supply and exhaust vents, and convectors within the Work Area with 6-mil polyethylene sheeting secured and completely sealed with duct tape.
- Lead-based painted building materials shall be carefully removed in manageable sections and all work must be conducted using industry standard procedures. Workers must exercise caution to avoid release of lead-contaminated dust into the air. Insure work is conducted while on polyethylene drop sheet. Immediately remove any lead-based paint debris which collects on the drop sheet either by using a HEPA vacuum or by wet cleaning methods.
- At the completion of the work, proceed with equipment and worker decontamination.

3.6 Project Decontamination

- 3.6.1 The cleaning procedures including using a HEPA vacuum to clean all surfaces followed by a wet wiping with a TSP solution and finishing with another HEPA vacuuming.
- 3.6.2 Daily cleanup consists of sealing and removing large debris and wet sweeping or mopping the work area.
- 3.6.3 The final cleanup consists of a preliminary final cleanup (removing plastic and first cleaning), preliminary visual inspection, painting/sealing, a number of cleaning cycles, and the final inspection.
- 3.6.4 Cleaning Procedures:
- HEPA Vacuuming Procedures: At the conclusion of the active abatement process, all surfaces in the abatement area should be thoroughly and completely HEPA vacuumed. These surfaces include, but are not limited to ceilings, walls, floors, windows, doors, fixtures of any kind, etc. This includes not just abated surfaces, but also unabated surfaces exposed to lead dust generated by the abatement process. The work area should be vacuumed by starting with the ceilings and working down to the floors. Lead dust adheres tenaciously, particularly to rough or porous materials such

as weathered or worn wood surfaces and masonry surfaces, particularly concrete.

- High-Phosphate Wash: Detergents with a high phosphate content (containing at least 5% trisodium phosphate (TSP)) have been found to be most effective when used as part of the final cleanup process in a lead paint abatement project. Because of concern for the impact of high-phosphate detergents on the environment, some states have regulated their use, and some manufacturers have eliminated phosphates from their household detergents. However, high-TSP detergents can usually be found in hardware stores. Following are the proper procedures for using this product.
- Read Manufacturer's Instructions: users of high-phosphate detergents should carefully follow the specific manufacturer's instructions for the proper use of the product, especially the dilution ratio recommended. Even diluted, trisodium phosphate should be used only with waterproof gloves as it is very irritating to the skin.
- Use Appropriate Cleaning Equipment: Since high-phosphate detergent mixture is used to wash down a variety of surfaces, several kinds of application equipment are needed, such as wringer buckets, mops, squeegee sponge mops, variously sized hand sponges and rags. Using the proper equipment on each surface will enhance the quality of the high-phosphate wash process.
- Use Proper Wet Cleaning Procedures : At the conclusion of the active abatement process and after the first HEPA vacuuming, all surfaces identified as requiring HEPA vacuuming earlier should be thoroughly and completely washed with a high-phosphate solution.
- Change Cleaning Mixture Regularly: Many manufacturers of high-phosphate cleaners will indicate the surface area that their cleaning mixture will cover. To avoid recontaminating the area, users should carefully follow the surface area limits provided by the manufacturer and change the cleaning mixture accordingly. Contaminated water is potentially hazardous and should be disposed of properly.
- Care should be taken to not damage existing surfaces and finishes (i.e. stained woodwork, doors, windows, etc.).

3.6.5 Daily Cleaning: Daily cleanup helps minimize problems during final cleanup and limits the potential exposure of abatement workers to lead dust throughout the abatement process.

- Small debris should be collected and disposed of properly. However, before any sweeping occurs, the affected surfaces should be sprayed with a fine mist of water, to keep surface dust from becoming airborne and potentially contaminating other areas of the property and abatement workers. Dry sweeping is

prohibited. The swept debris should be placed in double 6-mil plastic bags, properly sealed and moved to the designated storage area. Care should be taken not to overload trash bags, which otherwise may rupture or puncture during handling and transport.

3.6.6 Final Cleaning

- Preliminary Visual Inspection: After the cleanup effort is completed, an inspector shall visually inspect the entire affected area to insure that all lead material requiring abatement has been removed. If the results of the visual inspection are unsatisfactory, re-abate and/or reclean affected surfaces in accordance with the inspector's instructions until satisfactory results are achieved.
- Painting/Sealing: Sealing abated surfaces is the next step of the cleaning process. Sealed surfaces are much easier to clean and maintain over time than those that are not sealed. Also, this sealing process may encapsulate any remaining lead dust particles that were not removed by the cleanup procedures. However, painting or coating should never be used as a substitute for thorough cleaning.
- After painting/sealing is complete, the final cleanup can take place. The recommended method for the entire affected area is HEPA vacuuming, TSP wash and HEPA vacuuming. Wall and ceiling surfaces newly sealed with an approved lead sealant are exempted from the final wash due to danger of staining or otherwise damaging the sealed surface. Less rigorous final cleanup steps may be used as long as clearances are still met.

3.6.7 Final Inspection: After the final cleanup is complete, the final inspection will take place. The objective of the inspection is to insure abatement completeness and verify no surface dust levels.

3.6.8 Post abatement Visual Inspection: Confirms job completeness by determining whether all surfaces have been abated according to the approved abatement plan. The inspector will insure that all abated surfaces and all floors in the abatement area have been sealed. The inspector will present contractor with list of items to complete before the inspection process can continue.

3.6.9 Pre-Clearance Dust Test: The inspector will determine whether the work area has been adequately cleaned by examining all surfaces for dust and debris. If dust is found in the work area, reclean the entire area and repeat the damp cloth test.

- 3.6.10 Removal of Work Area Isolation: After all requirements of this section and Section 01714 Work Area Clearance have been met:
- 3.6.11 Remove decontamination unit.
- Remove containment and any critical barriers separating the work area from the rest of the building. Remove any small quantities of residual material found upon removal of the plastic sheeting with wet wiping, HEPA filtered vacuum cleaners and local area protection. If significant quantities, as determined by the Environmental Consultant, are found then the entire area affected shall be decontaminated as specified in this Section.
 - Remove all equipment, materials, and debris from the work site.
 - Dispose of all lead-containing waste material as specified in this Section.
- 3.6.12 Substantial Completion of Abatement Work: Lead abatement work is substantially complete upon meeting the requirements of this Section and Section 01714 Work Area Clearance, including submission of:
- a. Certificate of Visual Inspection
 - b. Receipts documenting proper disposal of Lead-Containing Waste Material.
 - c. Punch list detailing repairs to be made and incomplete items.
- 3.6.13 Certificate of Visual Inspection: This certification is to be completed by the Contractor and agreed upon by the Environmental Consultant. Submit completed certificate with Application for Final Payment. Final payment will not be made until this certification is executed.

CERTIFICATION OF VISUAL INSPECTION

PROJECT #:

BUILDING:

SPECIFIC AREA:

CONTRACTOR CERTIFICATION

In accordance with "Project Decontamination" the Contractor hereby certifies that he has visually inspected the work area (all surfaces including doors, windows, walls, ceiling and floor, decontamination unit, sheet plastic, etc.) and has found no dust, debris or residue.

By:

Signature Date

Print Name:

Print Title:

ENVIRONMENTAL CONSULTANT CERTIFICATION

The Environmental Consultant hereby certifies that he has accompanied the Contractor on his visual inspection and verifies that this inspection has been thorough and to the best of his knowledge and belief, the Contractor's Certification above is a true and honest one.

By:

Signature Date

Print Name:

Print Title:

3.7 Work Area Clearance

- 3.7.1 Contractor Release Criteria: The lead abatement work area is cleared when the work area is visually clean and wipe samples show lead concentrations have been reduced to the level specified below.
- 3.7.2 Visual Inspection: Work of this Section will not begin until the visual inspection described in Section 01711 Project Decontamination is complete and has been certified by the Project Administrator.
- 3.7.3 Clearance Testing: Remaining surface dust must be tested to insure that only very low levels of lead dust remain before reoccupancy of the area is permitted. This surface dust testing process is referred to as clearance testing, and the highest acceptable dust lead levels are referred to as clearance criteria.
- 3.7.4 Wipe Sampling: Wipe sampling will be used to evaluate level of lead remaining in the work area. A commercial wipe moistened with a non-alcohol wetting agent will be used. Surface dust sampling will take place no sooner than 24 hours after completion of post-abatement cleanup activities. This will allow any airborne dust to settle onto the surfaces to be tested.
- 3.7.5 Work Area Clearance: Upon meeting the lead clearance criteria, the work of Section 01711 Project Decontamination can continue.
- 3.7.6 Clearance Criteria: Clearance criteria are in general accordance with the Missouri Department of Health's Chapter 701 – Revised Statutes and Regulations relating to Lead Poisoning Prevention and Lead Licensing and Accreditation. Because this facility is not a child occupied facility, the clearance criteria for floor sampling is 40 micrograms per square foot and window sill sampling is 250 micrograms per square foot.

If all wipe sample results for an area meet the clearance criteria, the area is cleared for reoccupancy.

3.8 Final Inspection

After final cleanup is complete, a final inspection will be conducted. Special attention will be given to areas where lead-based painted building materials have been removed. The Environmental Consultant will conduct the final inspection with the contractor. Once the inspection(s) are passed, dispose of any additional materials as described in paragraph 3.2 General Removal Procedures.

3.9 Disposal

This paragraph describes disposal of lead-based painted building materials. Accomplish disposal either by landfill or other acceptable methods. Because of the type of material removed, the waste shall be treated as hazardous waste under RCRA.

- Wastes should neither be left on the property in an unsecured area, nor dumped in an unauthorized dumpster. Lead-containing wash water should not be flushed into storm drains or sanitary sewers without permission of local authorities.
- Hazardous waste must be disposed of at a hazardous waste disposal facility, usually defined as a treatment, storage, and disposal facility (TSD).
- Disposal Site Procedures: At the disposal site, sealed polyethylene bags shall be carefully unloaded from the truck. If bags are broken or damaged, return to work site for rebagging. Clean entire truck by HEPA vacuum and wet wipe methods.
- Retain all copies of employee blood tests, receipts, waste shipment records, manifests, chain of custody, etc. and submit as part of the final closeout documentation.

END OF SECTION

Attachment A – PSI Limited Lead-Based Paint Verification Report

March 12, 2012

Jackson County Public Works: Facilities Department
303 West Walnut Street
Independence, Missouri 64050

Attn: Mr. Jerry Page, P.E.
Director of Public Works and Facilities Management

Re: Limited Lead-Based Paint Verification & Hazardous Materials Inventory Report
Jackson County Historic Court House
112 West Maple
Independence, Missouri 64050
PSI Report Number 0603477-1

Dear Mr. Piper:

In accordance with our agreement with Piper-Wind Architects, Inc. dated December 15, 2011, Professional Service Industries, Inc., (PSI) has conducted a limited lead-based paint verification survey for the above-referenced site.

Please find one (1) hardcopy and one (1) electronic copy of the final report enclosed.

We appreciate the opportunity to provide our services to you on this project and would be pleased to continue our role as your environmental consultant. PSI is prepared to assist in preparing management plans, abatement plans and specifications, in reviewing contractor qualifications, in performing third party air monitoring, or in monitoring abatement activities. If we can be of further assistance to you please feel free to contact us.

Respectfully submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.



John Starr
Project Specialist



Sherri Jones
Department Manager

Enclosures



**LIMITED LEAD-BASED PAINT
VERIFICATION SURVEY**

For

**JACKSON COUNTY HISTORIC COURT
HOUSE
112 WEST MAPLE
INDEPENDENCE, MISSOURI 64050**

Prepared for

**PIPER-WIND ARCHITECTS, INC.
2121 CENTRAL STREET
KANSAS CITY, MO**

A handwritten signature in blue ink, appearing to read 'John Starr', is positioned above a horizontal line.

John Starr
Project Specialist

Prepared by

**Professional Service Industries, Inc.
1211 West Cambridge Circle Drive
Kansas City, Kansas 66103
Telephone (913) 310-1600**

A handwritten signature in blue ink, appearing to read 'Andrew S. Richmond', is positioned above a horizontal line.

for
Andrew S. Richmond
Principal Consultant

PSI REPORT NUMBER 0603-477-1

March 12, 2012

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APPENDICES

- APPENDIX A - XRF Summary - Complete List of Testing Combinations and Results
- APPENDIX B - Areas of Damaged Lead-Based Paint
- APPENDIX C – Photo Log
- APPENDIX D – PSI Personnel Credentials
- APPENDIX E – Tetra Tech May 4, 2009 Report

1.0 SUMMARY

Professional Service Industries, Inc. (PSI) was retained by Piper-Wind Architects, Inc., to conduct a limited lead-based paint verification survey of the Jackson County Historic Court House at 112 West Maple in Independence, Missouri. A brief summary of findings is contained in the following paragraphs.

The subject property consists of the Jackson County Historic Court House which is approximately 33,500 square feet. PSI understands a historical renovation is planned for this building and Piper-Wind Architects, Inc. requested a general limited lead-based paint verification survey of the building. The building is currently vacant and does not qualify as target housing or as a child-occupied facility.

PSI received a copy from Jackson County Public Works of a report dated May 4, 2009 titled *Asbestos Abatement and Lead Stabilization Cost Estimate Report*, prepared by Tetra Tech, Inc. As part of this report, Tetra Tech conducted a Limited Lead-Based Paint Screening. Information contained in the report included room numbers, components, locations, substrate, color, and lead results.

PSI reviewed the Tetra Tech, Inc. May 4, 2009 report and completed verification sampling. The lead-based paint verification survey was completed using X-Ray Fluorescence (XRF) equipment. During the lead-based paint verification, PSI also denoted areas of visible damage to either the lead-based paint or damaged substrates covered with lead-based paint. The purpose of this is to facilitate future repair and restoration work of damaged areas in the building. PSI also completed an inventory of regulated waste materials inside the building.

XRF test values show concentrations of lead in surface coatings in excess of the U.S. Department of Housing and Urban Development (HUD) and Environmental Protection Agency (EPA) regulatory level of 1.0 milligrams per square centimeter (mg/cm^2) in thirty-four (34) components tested on the interior of the building. A complete list of surface coatings examined during this investigation that contained concentrations of lead in excess of the EPA regulated level is presented in the lead-based paint report that was performed by Tetra Tech and was provided by Jackson County Public Works. It should be noted that due to the limited nature of this investigation, sample locations are verifications of building materials of similar type, construction and surface coating in that area. If a positive result is detected in one component in an area, it should be assumed that all similar components in that area are also positive.

A complete summary of XRF verification test results is included in Appendix A of this report.

According to state and federal guidelines, a paint or surface coating is considered to be "lead-based" if its lead concentration is greater than or equal to $1.0 \text{ mg}/\text{cm}^2$ or 0.5% by weight. However, any painted surface where lead was detected above the laboratory reporting limit in a representative paint chip sample contains lead. This includes those paints that also meet the definition of lead-based paint. The Occupational Safety & Health Administration (OSHA) regulates workers exposure to lead concentrations based on the permissible exposure limit of 50 micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$). Therefore, in order to satisfy OSHA requirements, worker protection and monitoring may be required for work activities that disturb paints that contain lead in any amount. In accordance with the OSHA Construction Standard for Lead (29 CFR 1926.62), it is the contractors' responsibility to protect their workers when an employee may be occupationally exposed to lead.

This summary does not contain all the information presented in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

2.0 INTRODUCTION

2.1 GENERAL INFORMATION

The property upon which this testing was performed is the Jackson County Historic Court House, located at 112 West Maple in Independence, Missouri.

The building is currently unoccupied. PSI understands from Piper-Wind Architects, Inc. that the building is slated for renovation and Piper-Wind Architects, Inc. requested a general limited lead-based paint verification survey of the building. This building currently does not qualify as target housing or as a child-occupied facility.

2.2 AUTHORIZATION

Authorization to perform this testing was given via approval of PSI proposal number 0603 - 56868, by Piper-Wind Architects, Inc.

2.3 PURPOSE

The purpose of the limited lead-based paint testing was to identify and verify surface coatings which contain lead in excess of 1.0 mg/cm² by XRF testing or 0.5% by weight (5,000 parts per million (ppm)) by laboratory analysis. PSI completed a verification survey of the previously conducted LPB Screening documented in the May 4, 2009 Tetra Tech report. PSI found the results presented in the Tetra Tech report to be consistent and accurate.

Additionally, PSI inspected the building for areas of visibly damaged lead-based paint or damaged substrates covered with lead-based paint. PSI also completed an inventory of regulated waste materials inside the building. This information was gathered by PSI to facilitate planned renovation and restoration work in the building.

2.4 WARRANTY

The information contained in this report is based upon observations and test results provided by PSI. These observations and results are time dependent, are subject to changing site conditions, and revisions to federal, state, and local regulations.

PSI warrants that these findings have been promulgated after being prepared in accordance with generally accepted practices in the lead-based paint testing and abatement industry. No other warranties are implied or expressed.

PSI also recognizes that raw XRF and laboratory test data are usually not sufficient to make all abatement and management decisions and recommends that PSI be afforded an opportunity to assist in the development of abatement specifications so test results may be properly interpreted and implemented.

This report was prepared pursuant to the contract PSI has with Piper-Wind Architects, Inc. for the benefit of Jackson County Public Works. That contractual relationship included an exchange of information about the property that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication

between PSI and its client, reliance or any use of this report by anyone other than Piper-Wind Architects, Inc., for whom it was prepared, and Jackson County, Missouri, is prohibited and therefore not foreseeable to PSI.

Reliance or use by any such third party except for Jackson County Public Works without explicit authorization in the report does not make said third party a third party beneficiary to PSI's contract with Piper-Wind Architects, Inc. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

Third party reliance letters may be issued on request and upon payment of the, then current fee for such letters. All third parties relying on PSI's reports, by such reliance, agree to be bound by the proposal and PSI's General Conditions. No reliance by any party is permitted without such agreement, regardless of the content of the reliance letter itself.

3.0 SCOPE OF SERVICES

The scope of services for this project included the performance of field testing for verification of the previously completed Tetra Tech report dated May 4, 2009, and the preparation of a report detailing verification results, as well as inspection and reported on damaged areas containing lead-based paint. John Starr, Missouri accredited lead risk assessor, conducted field testing and sampling for this project. PSI personnel credentials are included as Appendix D.

XRF testing of interior components of the building was performed in selected areas of the building in general accordance with the Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, June 1995 (HUD guidelines), Chapter 7 (Lead-Based Paint Inspections) which was updated in October 1997. As Tetra Tech previously conducted a lead-based paint screening, PSI reviewed the report and conducted verification testing on various areas and components of the building. PSI also completed an inventory of regulated waste materials in the building, as well as a survey of visibly damaged areas of the interior of the building known to contain lead-based paint.

Confirmation samples for laboratory analysis were to be collected for inconclusive XRF values, irregular surfaces, or other components too small to be tested with an XRF device; however, none were necessary for this inspection.

4.0 METHODOLOGY

4.1 FIELD VERIFICATION SURVEY- GENERAL

XRF field testing was performed with an RMD Instruments, LLC, L PA-1 XRF Lead Paint Spectrum Analyzer (Serial Number 1170) on February 21, 2012. The use of a portable, non-destructive testing device is advantageous when numerous tests must be performed because of its brief testing time and relatively low cost compared to laboratory methods.

XRF test data, including calibration checks against standards, and confirmation chip samples (where necessary) was recorded on inspection worksheets to generate a permanent record of the field findings.

4.2 XRF TESTING

XRF values are collected by placing the scanner on the test surface and exposing the surface coating to gamma radiation. XRF analyzers are usually capable of penetrating up to twenty-five (25) layers of surface coatings to determine lead content. At the conclusion of each test, the shutter is closed and the display on the control console shows the lead concentration in mg/cm^2 for manual tabulation.

The accuracy and precision of any measurement is determined by the length of each test, instrument calibration checks against known standards or control blocks, measurement conditions, and mathematical laws of random error. Even when XRF equipment is properly operated within the manufacturer's specification, unusual substrates, paint additives, uneven paint applications, electrical fields, lead components in wall cavities, and many other variables may cause significant fluctuations in apparent test values. Due to the limitations and inherent problems associated with XRF field testing, confirmation sampling and assessment of XRF data is recommended before major abatement activities are started.

4.3 INTERPRETATION OF XRF RESULTS

XRF results are identified as positive, negative, or inconclusive by the following rules:

“Positive” refers to a sample that has a lead concentration of $1.0 \text{ mg}/\text{cm}^2$ or greater.

“Negative” refers to a sample that has a lead concentration less than $1.0 \text{ mg}/\text{cm}^2$.

Where states or local jurisdictions adopt standards different from the federal guidelines, the more stringent rules are applied.

4.4 REPORT FORMAT

Spreadsheets containing a summary of results by building component and data tables for tested areas are included in Appendix A of this report. Individual test spots are listed in the data tables, including but not limited to a unique sample number, color, substrate type, a description of the building component, location, and the test value in mg/cm^2 . PSI utilized room designations consistent with the information contained in the Tetra Tech May 4, 2009 report.

4.5 CONFIRMATION LABORATORY SAMPLES

The collection of chip samples is required when initial XRF test values are inconclusive or when an irregular or unusually small surface was encountered which can not be assayed with an XRF device. No such samples were required during this inspection.

5.0 FINDINGS

5.1 LEAD-BASED PAINT VERIFICATION

X-Ray Fluorescence (XRF) test values show concentrations of lead in surface coatings in excess of the HUD and EPA regulatory level of 1.0mg/cm² in various components tested on the interior of the building. A complete list of surface coatings tested for verification during this investigation is presented in table format in Appendix A, as a supplement to the May 4, 2009 Tetra Tech report. It should be noted that due to the limited nature of this investigation, sample locations are representative of all building materials of similar type, construction and surface coating in that area. If a positive result is detected in one component in an area, it should be assumed that all similar components in that area are also positive.

The results of PSI's limited lead-based paint verification survey were generally consistent with the information presented in the May 4, 2009 Tetra Tech report. The Tetra Tech report, provided to PSI by Jackson County, Missouri is attached in Appendix E.

According to state and federal guidelines, a paint or surface coating is considered to be "lead-based" if its lead concentration is greater than or equal to 1.0 mg/cm² or 0.5%. However, any painted surface where lead was detected above the laboratory reporting limit in a paint chip sample contains lead. This includes those paints that also meet the definition of lead-based paint. OSHA regulates workers' exposure to lead concentrations based on the permissible exposure limit of 50 µg/m³. Therefore, in order to satisfy OSHA requirements, worker protection and monitoring may be required for work activities that disturb paints that contain lead in any amount. In accordance with the OSHA Construction Standard for Lead (29 CFR 1926.62), it is the contractors' responsibility to protect their workers when an employee may be occupationally exposed to lead.

5.2 AREAS OF DAMAGED LEAD-BASED PAINT

PSI inspected the interior of the building for areas of visibly damaged lead-based paint or damaged substrates covered with lead-based paint. This information was gathered by PSI to facilitate planned renovation and restoration work in the building. A table is contained in Appendix 2 outlining the room, location, and approximate quantity of visibly damaged lead-based paint or damaged substrate covered by lead-based paint. Areas typically denoted include either peeling lead-based paint or damaged plaster (ceiling and walls) coated by lead-based paint. A photograph is contained in Appendix C depicting typical areas of damaged lead-based paint or damaged substrate covered by lead-based paint.

5.3 REGULATED WASTE MATERIALS INVENTORY

Sampling was not conducted as part of the regulated waste materials survey. An inventory of potential regulated waste items is provided below.

3 Mercury Switches
323 Light Fixture Ballasts

APPENDIX A

XRF SUMMARY - COMPLETE LIST OF TESTING COMBINATIONS AND RESULTS

PSI Project #: 0603477-1
 Building: Jackson Co Historic
Court House

XRF Device #: 1170
 Type of XRF: RMD LPA-1
 Inspector's Name: John Starr

Date of Inspection: 02/21/12

XRF Testing Data Table

Shot No.	Int/Ext	Room #	Wall Notation: A-North B-East C-South D-West	Component	Substrate	Paint Color	XRF Reading	Result
1				Validation			1.2	
2				Validation			0.8	
3				Validation			0.9	
4	Int	002A	A	Wall	Plaster	White	7.1	
5	Int	002A	D	Door Trim	Wood	Stained	0.0	
6	Int	003	D	Wall	Plaster	Green	7.9	
7	Int	002	C	Wall	Plaster	White	>9.9	
8	Int	009	B	Wall	Plaster	Tan	4.5	
9	Int	015	A	Ceiling	Plaster	White	0.3	
10	Int	017	B	Wall	Plaster	Green	8.1	
11	Int	020	C	Wall	Plaster	Green	0.2	
12	Int	144	B	Wall	Drywall	Tan	-0.2	
13	Int	144	A	Wall	Plaster	Tan	1.0	
14	Int	115	A	Wall	Drywall	Tan	-0.2	
15	Int	115	C	Wall	Plaster	Tan	0.0	
16	Int	115	B	Wall	Plaster	Tan	>9.9	
17	Int	120	A	Wall	Plaster	Green	6.0	
18	Int	120	C	Wall	Plaster	White	>9.9	
19	Int	120	C	Pipe	Metal	White	5.7	
20	Int	130	A	Wall	Plaster	Tan	6.0	
21	Int	130	A	Pipe	Metal	Tan	2.8	

XRF Testing Data Table

Shot No.	Int/Ext	Room #	Wall Notation: A-North B-East C-South D-West	Component	Substrate	Paint Color	XRF Reading	Result
22	Int	131	B	Wall	Plaster	Tan	8.5	
23	Int	131	C	Wall	Plaster	Tan	5.3	
24	Int	245	B	Wall	Plaster	White	0.1	
25	Int	245	A	Wall	Plaster	White	-0.1	
26	Int	245	C	Wall	Plaster	White	-0.1	
27	Int	246	A	Wall	Plaster	White	0.0	
28	Int	246	B	Wall	Plaster	White	0.4	
29	Int	251	A	Wall	Plaster	White	0.1	
30	Int	251	D	Wall	Plaster	White	0.0	
31	Int	251	C	Wall	Plaster	White	0.3	
32	Int	251	C	Pipe	Metal	White	-0.3	
33	Int	251	C	Wall	Insulation	White	-0.1	
34	Int	201	C	Wall	Plaster	White	>9.9	
35	Int	230	A	Wall	Drywall	White	-0.1	
36	Int	230	C	Wall	Plaster	White	>9.9	
37	Int	230	D	Wall	Plaster	White	1.0	
38				Validation			1.0	
39				Validation			1.0	
40				Validation			0.9	
41								
42								

APPENDIX B

AREAS OF DAMAGED LEAD-BASED PAINT

**Jackson County Historic Court House
Damaged Lead-Based Paint**

Floor	Room Numbers From Tetra Tech Report	Location	Approximate Quantity
Basement	001	North and West Walls and Column	24 SF
Basement	002	North Wall	140 SF
Basement	003	All Walls	42 SF
Basement	004	All Walls	25 SF
Basement	005	All Walls	42 SF
Basement	006	All Walls	24 SF
Basement	007	All Walls	30 SF
Basement	008	Southwest Corner and Ceiling	62 SF
Basement	009	All Walls	145 SF
Basement	010	All Walls	365 SF
Basement	011	South and West Walls	260 SF
Basement	012	All Walls	85 SF
Basement	013	All Walls	40 SF
Basement	014	All Walls	40 SF
Basement	015	All Walls and Ceiling	195 SF
Basement	017	All Walls and Ceiling	850 SF
Basement	018	All Walls	75 SF
Basement	019	All Walls and Ceiling	350 SF
Basement	020	All Walls and Ceiling	320 SF
Basement	021	All Walls and Ceiling	320 SF
Basement	022	All Walls and Ceiling	280 SF
Basement	023	All Walls and Ceiling	80 SF
Basement	024	All Walls and Ceiling	80 SF
Basement	025	All Walls and Ceiling	85 SF
Basement	Tunnel	All Walls and Ceiling	200 SF
First	102	South Wall	2 SF
First	103	All Walls	210 SF
First	104	South Wall	60 SF
First	105	North and South Wall	21 SF
First	108	North Wall	5 SF
First	114	West Wall	10 SF
First	115	North, East, West Walls, and Ceiling	64 SF
First	119	Walls and Ceiling	400 SF
First	120	East, West, Walls and Ceiling	300 SF
First	122	South, West, Walls and Ceiling	290 SF

**Jackson County Historic Court House
Damaged Lead-Based Paint**

Floor	Room Numbers From Tetra Tech Report	Location	Approximate Quantity
First	123	East Wall	8 SF
First	129	East Wall	25 SF
First	130	East and North Walls	26 SF
First	131	East and North Walls	140 SF
First	135	Ceiling and North Wall	60 SF
First	134	North Wall	12 SF
First	133	Ceiling	30 SF
First	138	North and South Walls	20 SF
First	139	North Wall	10 SF
First	142	North Wall	1 SF
First	143	North Wall	10 SF
First	144	North Wall	30 SF
First	145/146	North and West Walls and Ceiling	55 SF
Second	201	South Wall	35 SF
Second	202	Ceiling	500 SF
Second	204	Ceiling	200 SF
Second	213	East Wall	50 SF
Second	214	Ceiling	20 SF
Second	251-256	West, South, and East Walls and Ceiling	400 SF
Second	249	East Wall and Ceiling	45 SF
Second	248	East Wall and Ceiling	35 SF
Second	247	East Wall and Ceiling	45 SF
Second	246	Ceiling	15 SF
Second	245	Ceiling	45 SF
Second	244	Ceiling	20 SF
Second	243	Ceiling	35 SF
Second	242	Walls and Ceiling	110 SF
Second	219	Ceiling	40 SF
Second	223	Ceiling	100 SF
Second	224	Ceiling	50 SF
Second	225	Ceiling	150 SF
Second	227	North, South, and East Walls	95 SF
Second	228	Walls and Ceiling	120 SF
Second	229	North and West Walls and Ceiling	465 SF

Jackson County Historic Court House
Damaged Lead-Based Paint

Floor	Room Numbers From Tetra Tech Report	Location	Approximate Quantity
Second	230	East Wall and Ceiling	600 SF
Second	231	West Wall	1 SF
Second	232	Walls and Ceiling	40 SF
Second	235	Walls	130 SF
Second	239	Ceiling	85 SF
Second	238	South Wall and Ceiling	115 SF
Second	243	South Wall and Ceiling	35 SF
Second	215	Ceiling	40 SF
Third	East	North and West Walls	41 SF
Third	West	North and East Walls	45 SF

APPENDIX C

PHOTO LOG



Basement East End Room 002



Basement East End Room 002



Basement East End Room 002A



Basement East End Room 003



Basement East End Room 004



Basement East End Room 002



Basement East End Room 005



Basement East End Room 006



Basement East End Room 008



Basement Tunnel



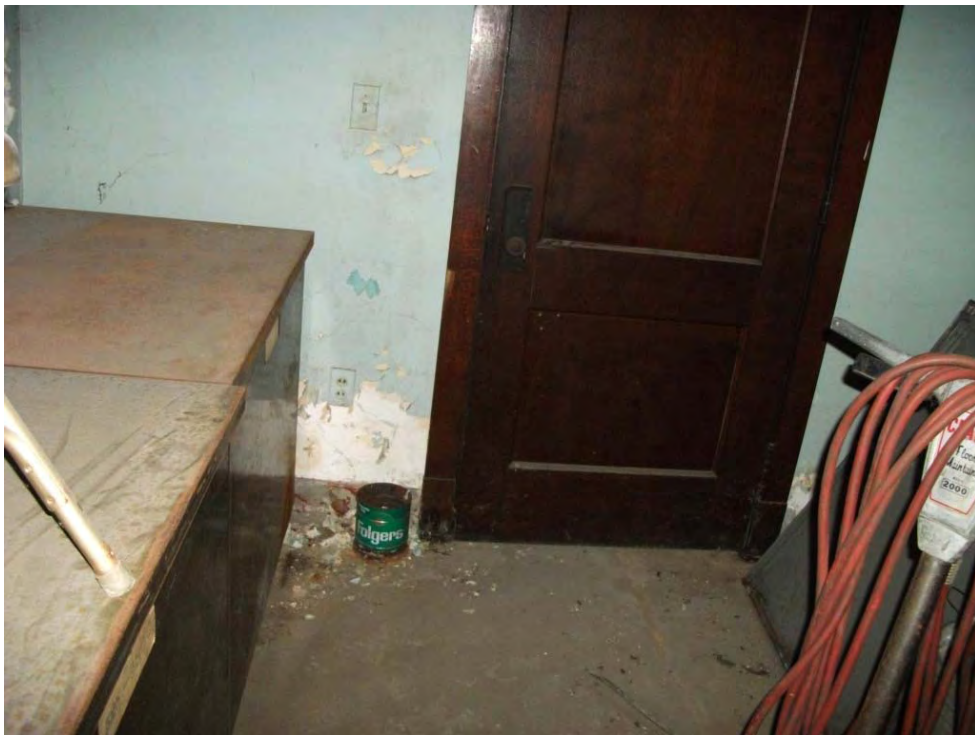
Basement West End Room 009



Basement West End Hall 015



Basement West End Room 020



Basement West End Room 022



Basement West End Room 010



First Floor West End Room 145



First Floor West End Room 144



First Floor West End Room 144



First Floor West End Room 139



First Floor East End Room 133



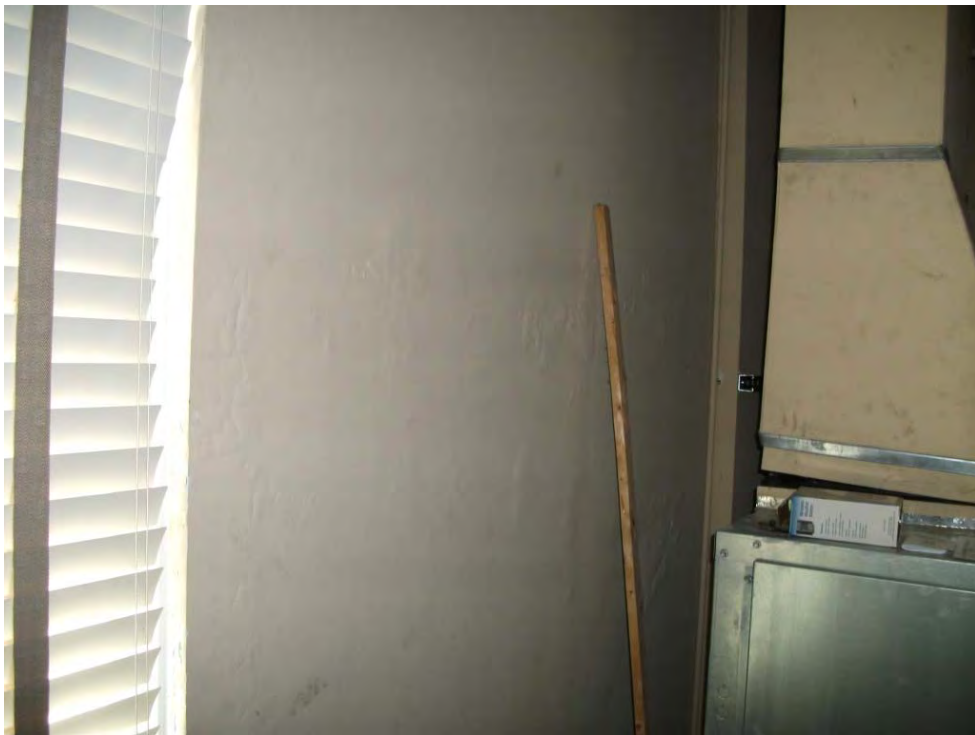
First Floor East End Room 134



First Floor East End Room 130



First Floor West End Room 115



First Floor West End Room 115



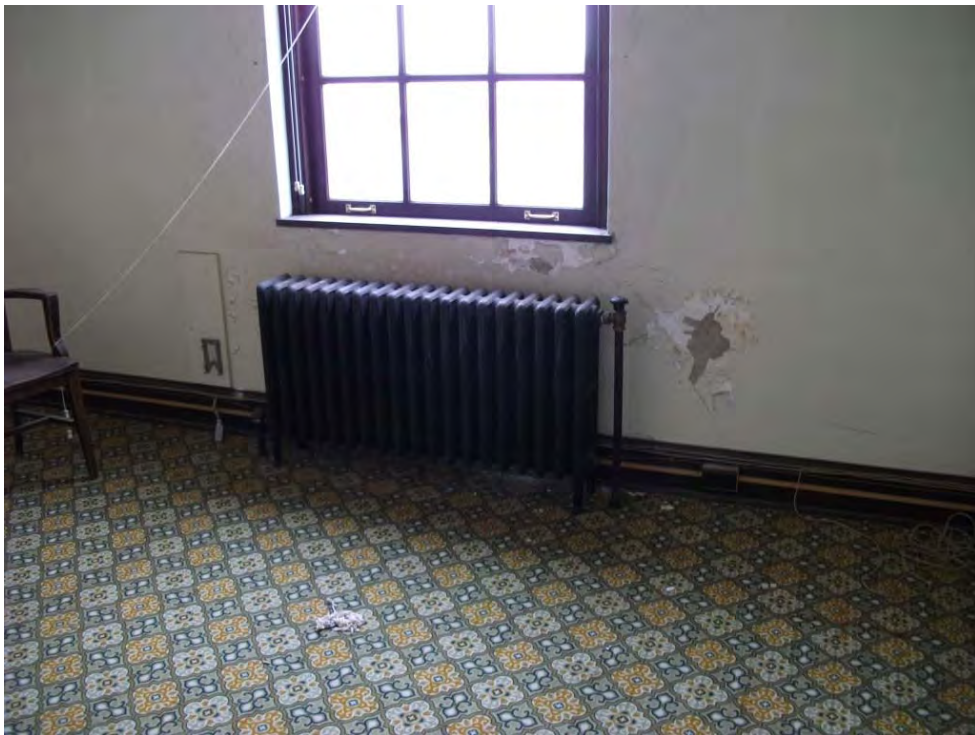
First Floor East End Room 114



First Floor East End Room 108



Second Floor West End Room 228



Second Floor West End Room 227



Second Floor West End Room 225



Second Floor West End Room 225



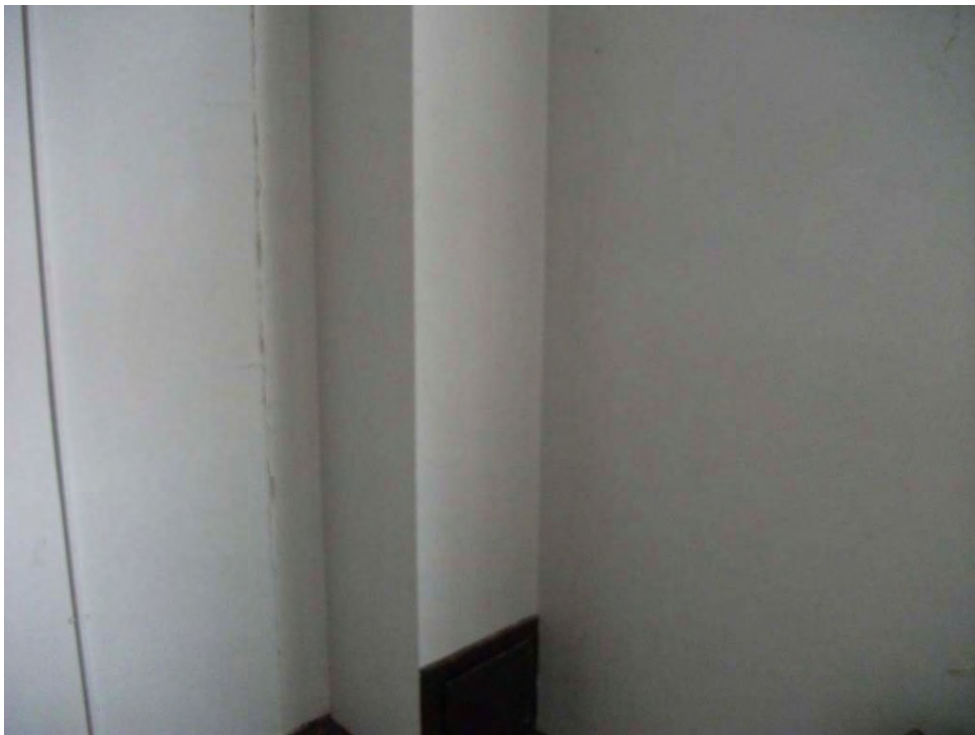
Second Floor West End Room 203



Second Floor East End Room 202



Second Floor East End Room 242



Second Floor East End Room 245



Second Floor East End Room 246



Second Floor East End Room 248



Second Floor East End Room 252



Second Floor East End Room 252



Second Floor East End Room 252



Second Floor East End Room 251



Second Floor East End Room 251



Second Floor Center Hall Room 201



Second Floor East End Room 204



Attic Stairs East End



Attic Stairs West End

APPENDIX D

PSI PERSONNEL CREDENTIALS

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

JOHN STARR

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date: **3/17/2011**
Expiration Date: **3/17/2013**
License Number: **050317-300000680**



A handwritten signature in black ink, reading "Margaret T. Donnelly".

Margaret T. Donnelly
Director

Department of Health and Senior Services

APPENDIX E

Tetra Tech May, 2009 Report



TETRA TECH

**ASBESTOS ABATEMENT AND LEAD STABILIZATION COST
ESTIMATE REPORT**

**Harry S. Truman Courthouse
112 West Maple
Independence, Missouri 64050**

Prepared for

Department of Public Works
Jackson County
Independence, MO 64050

May 4, 2009

Prepared by

Tetra Tech, Inc.
721 South Packard Street
Kansas City, Kansas 66105

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Appendix

A	ACCREDITATION DOCUMENTATION
B	FLOOR PLANS
C	XRF LEAD DATA



TETRA TECH

1.0 INTRODUCTION

As authorized by the Jackson County Department of Public Works, Tetra Tech, Inc. (Tetra Tech), provided asbestos and lead screening services to formulate engineering estimates for the historical Harry S Truman Courthouse located at 112 W. Maple, Independence, Missouri. The field team conducting the onsite activities consisted of Tetra Tech and Baker Environmental Consulting (BEC). This final report contains site project personnel documentation, floor plans, and lead screening data.

2.0 ENGINEERING ESTIMATE

The following table lists asbestos- containing materials, approximate quantities, and abated cost:

Material Description	Quantity
Thermal Pipe Insulation (corrugated and layered paper)	2,176 LF
Thermal Pipe Fittings	404 Fittings
Asbestos Board	300 ft ²
Linoleum (brown square pattern)	9 ft ²
Linoleum (yellow square pattern)	6 ft ²
Thermal System Insulation Debris	1,250 ft ²
Fire Doors (assumed asbestos-containing)	3

Estimated 6 workers @ \$65.00 hour for 8 working weeks	
Estimated Abatement Contractor Cost (lump sum)	\$124,000
Estimated 1 supervisor @ \$80.00 hour for 8 working weeks	
Project Oversight	\$25,600
Lab Sample & Supplies	\$2,350
Estimated Asbestos Abatement Total	(\$152,750)



3.0 LIMITED LEAD-BASED PAINT SCREENING ACTIVITIES

Tetra Tech and BEC conducted the Limited Lead-Based Paint (LBP) Screening (Screening) on April 27th & 28th, 2009. Larry Hopkins, a Certified Risk Assessor (Missouri License No. 010103-200042907), conducted the Screening, under the supervision of Josh Johnson of Tetra Tech. It should be noted that based upon conversations with the Owner and/or Client, there has been previous LBP Screening at this property, the further screening was not only to validate previous LBP screening but also to properly identify LBP containing substrates, areas and surface coatings and quantify costs pertaining to future LBP stabilization activities.

The Limited LBP Screening consisted of a visual examination of the indicated property and of surface coatings (e.g., paint, stain, varnish, shellac, polyurethane, etc.) on immediately available and easily accessible interior components and other surfaces as specified in the field by Tetra Tech.. Generally indicated surfaces and components were selected by Tetra Tech for Screening. In order to meet the necessary requests of Jackson County screening occurred roughly following HUD's residential guidelines for the first day of Screening. On the second day, it was determined that a pattern of LBP coatings had been established during the 1st day of Screening. Screening on the second day was targeted to surfaces and components where LBP coatings were anticipated. All Screening was accomplished using an x-ray fluorescence (XRF) lead-in-paint analyzer. The Screening was conducted in general accordance with some of the provisions of the HUD's Guidelines for the Evaluation and Control of Lead-Based Paint in Housing, Chapter 7 (1997 revision) and specifically applicable State of Missouri Guidelines. The results of the Screening are summarized below. The locations of XRF screenings, site drawings and floor plans are included within Appendix B and a complete listing of XRF results for the lead-based paint screening are included as Appendix C.

3.1 SUMMARY OF RESULTS

Location & Type of Identified Lead-Based Paint

As a result of the LBP Screening, it was found that lead-based paint is present at the locations tested on the subject property as of the date of the Screening. The analytical results from this effort listed below in Table 2 identified that the following components and surfaces are coated with LBP, as defined in the 1988 Section 302 Amendment to the Lead-Based Paint Poisoning Prevention Act, by Title X of the 1992 Housing and Community Development Act, any enacted addendums to this rule, and/or State of Missouri standards.



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Table 2 Positively Identified Lead-Based Paint Containing Substrates, Areas and Surface Coatings

Read No.	Wall	Structure	Location	Member	Paint Cond	Paint Substrate	Paint Color	Lead (mg/cm ²)	Mode
Interior Room 001 Room 128									
018	A	Pipe	Rgt		I	Wrap	Beige	>9.9	QM
009	A	Wall	W Ctr		I	Plaster	Beige	4.2	QM
007	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
010	B	Wall	W Ctr		P	Plaster	Beige	6.8	QM
011	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
012	D	Wall	W Ctr		I	Plaster	Beige	8.3	QM
Interior Room 002 Room 127									
028	A	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
027	A	Ceiling	Ctr		I	Plaster	Beige	>9.9	QM
029	B	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
030	C	Wall	W Ctr		I	Plaster	Beige	6.4	QM
031	D	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
Interior Room 003 Rm 127 Cl									
041	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
042	B	Wall	W Ctr		I	Plaster	Beige	4.4	QM
043	C	Wall	W Ctr		P	Plaster	Beige	8.1	QM
044	D	Wall	W Ctr		I	Plaster	Beige	7.5	QM
045	D	Ceiling	Ctr		I	Plaster	Beige	>9.9	QM
Interior Room 004 Room 125									
049	A	Wall	W Ctr		F	Plaster	Beige	5.1	QM
048	A	Ceiling	Ctr		P	Plaster	White	>9.9	QM
050	B	Wall	W Ctr		P	Plaster	Beige	5.3	QM
051	C	Wall	W Ctr		P	Plaster	Beige	5.3	QM
052	D	Wall	W Ctr		F	Plaster	Beige	6.0	QM
Interior Room 005 Room 126									
068	A	Wall	W Ctr		I	Plaster	Beige	5.1	QM
067	A	Ceiling	Ctr		I	Plaster	Beige	>9.9	QM
069	B	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
070	C	Wall	W Ctr		I	Plaster	Beige	6.1	QM
071	D	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
Interior Room 006 Room 124									
080	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
081	B	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
092	B	Railing	Ctr	Post	I	Metal	Black	1.0	QM
082	C	Wall	W Ctr		F	Plaster	Beige	9.1	QM
079	D	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
077	D	Ceiling	Ctr		I	Plaster	White	>9.9	QM

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Table 2 Positively Identified Lead-Based Paint Containing Substrates, Areas and Surface Coatings (Continued)

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
Interior Room 006 Room 124									
093	D	Railing	Ctr	Newel Post	I	Metal	Black	1.3	QM
Interior Room 007 Hall 107									
109	A	Wall	L Ctr		P	Plaster	Beige	1.8	QM
105	A	Wall	U Ctr		F	Plaster	White	8.3	QM
104	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
110	B	Wall	L Lft		F	Plaster	Beige	1.5	QM
106	B	Wall	U Ctr		F	Plaster	White	8.3	QM
107	C	Wall	U Ctr		F	Plaster	White	8.1	QM
108	D	Wall	U Ctr		F	Plaster	White	8.6	QM
Interior Room 008 Hall 105									
154	A	Access Door	Ctr		F	Metal	Red	2.1	QM
126	A	Wall	L Ctr		F	Plaster	Beige	1.4	QM
125	A	Wall	U Ctr		P	Plaster	White	7.1	QM
127	B	Wall	L Ctr		F	Plaster	Beige	1.5	QM
122	B	Wall	U Ctr		P	Plaster	White	>9.9	QM
120	B	Ceiling	Ctr		I	Plaster	White	>9.9	QM
128	C	Wall	L Ctr		F	Plaster	Beige	1.3	QM
123	C	Wall	U Ctr		P	Plaster	White	8.3	QM
129	D	Wall	L Ctr		F	Plaster	Beige	1.4	QM
124	D	Wall	U Ctr		P	Plaster	White	9.0	QM
Interior Room 009 Hall 101									
157	A	Crown Mldg	Ctr		I	Wood	White	>9.9	QM
156	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
Interior Room 010 Hall 109									
175	A	Wall	L Ctr		I	Plaster	Beige	1.4	QM
170	A	Wall	U Ctr		I	Plaster	White	8.5	QM
169	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
176	B	Wall	L Ctr		I	Plaster	Beige	1.4	QM
171	B	Wall	U Ctr		I	Plaster	White	9.3	QM
177	C	Wall	L Ctr		I	Plaster	Beige	1.5	QM
172	C	Wall	U Ctr		I	Plaster	White	8.1	QM
174	D	Wall	L Ctr		I	Plaster	Beige	2.1	QM
173	D	Wall	U Ctr		F	Plaster	White	8.3	QM
Interior Room 011 Hall 103									
192	A	Wall	L Lft		F	Plaster	Beige	3.1	QM
185	A	Wall	U Ctr		F	Plaster	White	>9.9	QM
184	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
190	B	Wall	L Ctr		P	Plaster	Beige	2.1	QM
186	B	Wall	U Ctr		P	Plaster	White	7.3	QM
191	C	Wall	L Rgt		F	Plaster	Beige	1.3	QM
187	C	Wall	U Ctr		F	Plaster	White	8.8	QM
188	D	Wall	U Ctr		P	Plaster	White	1.3	QM

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Interior Room 012 Hall 102									
232	A	Phone Rm	Rgt	Wall	I	Plaster	White	9.5	QM
208	A	Wall	L Ctr		I	Plaster	Beige	1.0	QM
201	A	Wall	U Ctr		I	Plaster	White	>9.9	QM
199	A	Ceiling	Rgt		I	Plaster	White	9.4	QM
207	B	Wall	L Ctr		I	Plaster	Beige	2.3	QM
202	B	Wall	U Ctr		I	Plaster	White	7.7	QM
206	C	Wall	L Ctr		I	Plaster	Beige	1.0	QM
203	C	Wall	U Ctr		P	Plaster	White	8.4	QM
205	D	Wall	L Ctr		I	Plaster	Beige	1.2	QM
204	D	Wall	U Ctr		I	Plaster	White	8.9	QM

Table 2 Positively Identified Lead-Based Paint Containing Substrates, Areas and Surface Coatings (Continued)

Read
 No. Wall Structure Location Member Paint Cond Substrate Paint Color Lead (mg/cm²) Mode

Interior Room 013 Hall 104									
246	A	Wall	L Ctr		F	Plaster	Beige	1.0	QM
239	A	Wall	U Ctr		I	Plaster	White	>9.9	QM
238	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
245	B	Wall	L Ctr		I	Plaster	Beige	1.3	QM
240	B	Wall	U Ctr		I	Plaster	White	>9.9	QM
244	C	Wall	L Ctr		F	Plaster	Beige	1.4	QM
241	C	Wall	U Ctr		I	Plaster	White	>9.9	QM
243	D	Wall	L Ctr		F	Plaster	Beige	1.4	QM
242	D	Wall	U Ctr		I	Plaster	White	9.1	QM

Interior Room 001 Room 115									
007	A	Wall	W Ctr		I	Plaster	Beige	5.3	QM
008	B	Wall	W Ctr		I	Plaster	Beige	5.3	QM
009	C	Wall	W Ctr		I	Plaster	Beige	5.8	QM
010	D	Wall	W Ctr		I	Plaster	Beige	6.1	QM
018	D	Ceiling	Ctr		F	Plaster	White	>9.9	QM

Interior Room 002 Room 114									
030	A	Pipe	Lft		I	Wrap	Green	>9.9	QM
023	A	Wall	W Ctr		I	Plaster	Green	3.4	QM
024	B	Wall	W Ctr		I	Drywall	Green	4.1	QM
025	C	Wall	W Ctr		I	Drywall	Green	3.2	QM
026	D	Wall	W Ctr		I	Plaster	Green	3.5	QM

Interior Room 003 Vault 17/16									
041	D	Door	Ctr		I	Metal	Dk Green	3.5	QM

Interior Room 004 Room 145									
042	A	Wall	W Ctr		P	Plaster	Beige	5.2	QM
046	D	Pipe	Rgt		F	Wrap	Beige	1.6	QM
045	D	Wall	W Ctr		P	Plaster	Beige	>9.9	QM

Interior Room 005 Room 146									
060	C	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
058	D	Pipe	Rgt		F	Wrap	Beige	>9.9	QM
059	D	Wall	W Ctr		F	Plaster	Beige	>9.9	QM

Interior Room 006 Room 144									
070	A	Pic Rail	Ctr		I	Wood	Beige	6.0	QM
079	A	Pipe	Ctr		I	Wrap	Beige	5.9	QM

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071	A	Wall	W Ctr	P	Plaster	Beige	>9.9	QM
069	A	Ceiling	Ctr	I	Plaster	White	>9.9	QM
072	B	Wall	W Ctr	F	Plaster	Beige	9.3	QM
073	C	Wall	W Ctr	I	Plaster	Beige	>9.9	QM

Interior Room 007 Vault 143

090	A	Wall	W Ctr	I	Plaster	Beige	5.1	QM
094	A	Door	Lft	I	Metal	Dk Green	6.4	QM
096	A	Door	Lft	I	Metal	Dk Green	>9.9	QM
095	A	Door	Lft	I	Metal	Dk Green	9.1	QM
091	B	Wall	W Ctr	I	Plaster	Beige	5.2	QM
092	C	Wall	W Ctr	I	Plaster	Beige	5.8	QM
093	D	Wall	W Ctr	I	Plaster	Beige	6.0	QM

Interior Room 008 Room 139

103	A	Pic Rail	Ctr	I	Wood	Beige	5.2	QM
104	A	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
102	A	Ceiling	Ctr	I	Plaster	White	>9.9	QM
105	B	Wall	W Ctr	F	Plaster	Beige	>9.9	QM

Table 2 Positively Identified Lead-Based Paint Containing Substrates, Areas and Surface Coatings (Continued)

Read

No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
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Interior Room 008 Room 139

106	C	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
107	D	Wall	W Ctr	F	Plaster	Beige	>9.9	QM

Interior Room 009 Room 140

108	A	Wall	W Ctr	I	Plaster	Beige	>9.9	QM
109	B	Wall	W Ctr	I	Plaster	Beige	5.7	QM
110	C	Wall	W Ctr	I	Plaster	Beige	>9.9	QM
112	D	Pic Rail	Ctr	I	Wood	Beige	6.1	QM
111	D	Wall	W Ctr	I	Plaster	Beige	>9.9	QM
113	D	Ceiling	Ctr	I	Plaster	White	>9.9	QM
120	D	Closet	Rgt	I	Plaster	Beige	3.2	QM
121	D	Closet	Rgt	I	Plaster	Beige	5.2	QM

Interior Room 010 Room 142

123	A	Pic Rail	Ctr	I	Wood	Beige	6.4	QM
134	A	Pipe	Ctr	F	Wrap	Beige	7.2	QM
124	A	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
122	A	Ceiling	Ctr	I	Plaster	White	>9.9	QM
125	B	Wall	W Ctr	I	Plaster	Beige	5.2	QM
126	C	Wall	W Ctr	I	Plaster	Beige	6.1	QM
131	C	Door	Lft	I	Metal	Dk Green	>9.9	QM
127	D	Wall	W Ctr	I	Plaster	Beige	5.8	QM

Interior Room 011 Room 129

139	A	Wall	W Ctr	F	Plaster	Beige	6.8	QM
135	B	Pipe	Rgt	F	Wrap	Beige	>9.9	QM
140	B	Wall	W Ctr	P	Plaster	Beige	7.1	QM
141	C	Wall	W Ctr	F	Plaster	Beige	7.1	QM
142	D	Wall	W Ctr	F	Plaster	Beige	7.6	QM

Interior Room 012 Room 130

151	A	Pipe	Lft	F	Wrap	Beige	8.6	QM
150	A	Wall	W Ctr	I	Plaster	Beige	5.2	QM

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149	B	Wall	W Ctr		I	Plaster	Beige	5.1	QM
146	C	Pic Rail		Ctr	I	Wood	Beige	6.2	QM
147	C	Wall	W Ctr		I	Plaster	Beige	4.9	QM
145	C	Ceiling		Ctr	F	Plaster	White	>9.9	QM
148	D	Wall	W Ctr		I	Plaster	Beige	6.0	QM
158	D	Door		Ctr	I	Metal	Brown	3.3	QM
159	D	Door		Ctr	I	Metal	Brown	1.0	QM

Interior Room 013 Vault 132

161	B	Door		Ctr	I	Metal	Dk Green	1.5	QM
160	B	Door		Ctr	I	Metal	Dk Green	1.0	QM

Interior Room 014 Room 131

172	A	Wall	W Ctr		I	Plaster	Cream	5.8	QM
177	B	Pipe		Lft	F	Wrap	Cream	6.1	QM
173	B	Wall	W Ctr		I	Plaster	Cream	7.1	QM
169	C	Pic Rail		Ctr	I	Wood	Cream	6.0	QM
170	C	Wall	W Ctr		I	Plaster	Cream	5.2	QM
168	C	Ceiling		Ctr	I	Plaster	White	>9.9	QM
171	D	Wall	W Ctr		I	Plaster	Cream	5.5	QM

Interior Room 015 Room 135

187	A	Wall	W Ctr		I	Plaster	Beige	4.1	QM
188	B	Wall	W Ctr		I	Plaster	Beige	4.0	QM
183	C	Pic Rail		Ctr	I	Wood	Beige	5.2	QM
185	C	Wall	W Ctr		I	Plaster	Beige	4.2	QM

Table 2 Positively Identified Lead-Based Paint Containing Substrates, Areas and Surface Coatings (Continued)

Read
 No. Wall Structure Location Member Paint Cond Substrate Paint Color Lead (mg/cm²) Mode

Interior Room 015 Room 135

184	C	Ceiling		Ctr	I	Plaster	White	>9.9	QM
186	D	Wall		W Ctr	I	Plaster	Beige	4.1	QM

Interior Room 016 Room 134

189	A	Wall	W Ctr		I	Plaster	Beige	5.1	QM
190	B	Wall	W Ctr		I	Plaster	Beige	5.3	QM
194	C	Pic Rail		Ctr	I	Wood	Beige	4.3	QM
191	C	Wall	W Ctr		I	Plaster	Beige	5.4	QM
193	C	Ceiling		Ctr	I	Plaster	White	9.2	QM
200	D	Pipe		Rgt	F	Wrap	Beige	>9.9	QM
192	D	Wall	W Ctr		I	Plaster	Beige	5.4	QM

Interior Room 001 Rm 121

008	A	Coat Rail		Lft	I	Wood	White	>9.9	QM
007	A	Wall		W Lft	I	Plaster	White	>9.9	QM

Interior Room 002 Rm 120

010	A	Wall		L Ctr	F	Plaster	White	9.1	QM
009	B	Wall		W Lft	P	Plaster	White	5.8	QM
022	B	Ceiling		Lft	P	Plaster	White	>9.9	QM
013	D	Vault		Lft	I	Metal	Black	6.4	QM
014	D	Vault		Lft	I	Metal	Black	>9.9	QM
011	D	Vault		Rgt	I	Metal	Black	3.9	QM
012	D	Vault		Rgt	I	Metal	Black	>9.9	QM

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Interior Room 004 Vault 119

019	A	Wall	L Rgt		P	Plaster	Gold	6.7	QM
020	A	Wall	U Rgt		F	Plaster	White	4.4	QM
021	D	Storage	Rgt	Door	I	Metal	Black	1.0	QM

Interior Room 005 Rm 123

024	A	Wall	L Rgt		I	Plaster	Lt Blue	5.6	QM
023	A	Wall	U Rgt		I	Plaster	White	>9.9	QM

Interior Room 006 Rm 122

027	D	Pipe	Lft		F	Wrap	White	>9.9	QM
025	D	Wall	L Rgt		I	Plaster	Beige	4.8	QM
026	D	Wall	U Rgt		P	Plaster	White	9.5	QM

Interior Room 007 Rm 133

028	C	Wall	W Ctr		I	Plaster	Beige	9.1	QM
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Interior Room 008 Rm 137

031	C	Coat Rail	Ctr		I	Wood	White	>9.9	QM
030	C	Wall	W Ctr		I	Plaster	White	>9.9	QM

Interior Room 009 Rm 138

033	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
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Interior Room 010 Vault 136

034	A	Wall	W Ctr		I	Plaster	Beige	1.4	QM
036	B	Vault	Ctr	Door Face	I	Metal	Black	>9.9	QM
037	B	Vault	Ctr	Jamb	I	Metal	Black	2.5	QM

Interior Room 011 Stair 108

038	A	Wall	L Ctr		F	Plaster	Beige	2.2	QM
039	A	Wall	U Ctr		F	Plaster	White	4.4	QM
040	A	Ceiling	Ctr		F	Plaster	White	4.1	QM
041	D	Stairs	Ctr	Stringers	I	Metal	Brown	1.0	QM

Table 2 Positively Identified Lead-Based Paint Containing Substrates, Areas and Surface Coatings (Continued)

Read Paint Paint Lead
 No. Wall Structure Location Member Cond Substrate Color (mg/cm²) Mode

Interior Room 011 Stair 108

042	D	Stairs	Ctr	Risers	I	Metal	Brown	1.3	QM
043	D	Railing	Ctr	Newel Post	I	Metal	Brown	1.0	QM
044	D	Railing	Ctr	Bottom Rail	I	Metal	Brown	1.0	QM

Interior Room 012 Stair 109

046	A	Wall	L Ctr		I	Plaster	Beige	2.2	QM
047	A	Wall	U Ctr		I	Plaster	White	4.7	QM
048	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
049	B	Stairs	Ctr	Stringers	I	Metal	Brown	1.4	QM
050	B	Railing	Ctr	Newel Post	I	Metal	Brown	1.4	QM

Interior Room 013 Rm 113

051	A	Wall	W Ctr		I	Plaster	Beige	4.4	QM
052	C	Pipe	Ctr		I	Metal	Beige	4.1	QM

Interior Room 014 Rm 112

053	A	Wall	W Ctr		I	Plaster	Beige	4.5	QM
054	A	Ceiling	Ctr		I	Plaster	Beige	>9.9	QM



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Interior Room 015 Rm 235									
055	D	Wall	W Ctr		P	Plaster	Beige	>9.9	QM
Interior Room 016 Rm 231									
058	D	Wall	L Ctr		F	Plaster	Gold	3.2	QM
057	D	Wall	U Ctr		P	Plaster	White	>9.9	QM
Interior Room 017 Rm 232									
060	D	Wall Cabinet	Ctr		P	Plaster	White	2.3	QM
061	D	Ceiling	Ctr		P	Plaster	White	6.5	QM
Interior Room 018 Rm 230									
063	B	Wall	W Ctr		F	Plaster	Beige	9.2	QM
062	D	Wall	W Ctr		P	Plaster	Beige	4.3	QM
Interior Room 019 234/37/39									
066	C	Wall	L Ctr		I	Plaster	Beige	>9.9	QM
067	C	Wall	U Ctr		I	Plaster	White	>9.9	QM
Interior Room 020 Rm 233									
072	A	Wall	W Ctr		F	Plaster	White	3.5	QM
076	C	Wall	W Ctr		F	Plaster	White	4.4	QM
075	D	Wall	W Ctr		F	Plaster	White	4.1	QM
Interior Room 021 Rm 238									
077	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
081	B	Vault	Ctr	Door Face	F	Metal	Beige	2.2	QM
082	B	Vault	Ctr	Casing	F	Metal	Beige	1.5	QM
083	B	Vault	Ctr	Jamb	F	Metal	Black	1.5	QM
079	C	Wall	W Lft		F	Plaster	Beige	>9.9	QM
080	C	Ceiling	Lft		P	Plaster	White	>9.9	QM
Interior Room 022 Vault 239									
085	C	Wall	W Rgt		F	Plaster	White	9.3	QM
086	D	Vault	Lft	Casing	I	Metal	Black	2.3	QM
084	D	Wall	W Ctr		P	Plaster	White	>9.9	QM
Interior Room 023 Rm 243									
088	B	Pipe	Ctr		F	Wrap	White	>9.9	QM
087	B	Wall	W Ctr		F	Plaster	White	>9.9	QM
Table 2 Positively Identified Lead-Based Paint Containing Substrates, Areas and Surface Coatings (Continued)									
Read									
No.	Wall	Structure	Location	Member	Cond	Substrate	Paint Color	Paint Lead (mg/cm²)	Mode
Interior Room 024 Rm 215									
089	B	Wall	W Ctr		I	Plaster	White	>9.9	QM
Interior Room 025 Hall 201									
091	A	Wall	L Lft		I	Plaster	Beige	2.6	QM
090	A	Wall	U Lft		I	Plaster	White	>9.9	QM
092	C	Wall	L Ctr		I	Plaster	Beige	>9.9	QM
093	C	Wall	U Ctr		I	Plaster	Beige	>9.9	QM
Comment: Assume ceiling & crown molding are LBP coated									
Interior Room 026 Hall 203									
099	A	Ceiling	Rgt		P	Plaster	White	>9.9	QM
097	C	Wall	L Rgt		F	Plaster	Beige	3.5	QM



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098	C	Wall	U Rgt		F	Plaster	White	>9.9	QM
Interior Room 027 Hall 202									
102	B	Wall	L Rgt		P	Plaster	Beige	3.4	QM
101	B	Wall	U Rgt		P	Plaster	White	>9.9	QM
100	B	Ceiling	Rgt		P	Plaster	White	>9.9	QM
Interior Room 028 Stair 206/7									
103	B	Wall	L Rgt		P	Plaster	Beige	>9.9	QM
104	B	Wall	U Rgt		P	Plaster	White	>9.9	QM
105	D	Ceiling	Rgt		P	Plaster	White	>9.9	QM
Interior Room 030 Rm 229									
109	A	Wall	W Ctr		I	Plaster	Beige	3.8	QM
Interior Room 031 Rm 228									
111	C	Wall	W Ctr		P	Plaster	White	>9.9	QM
112	C	Ceiling	Ctr		P	Plaster	White	>9.9	QM
Interior Room 032 Rm 226									
113	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
Interior Room 033 Rm 227									
114	A	Wall	W Ctr		P	Plaster	Cream	5.2	QM
Interior Room 034 Rm 225									
117	D	Wall	W Rgt		P	Plaster	White	>9.9	QM
Interior Room 035 Rm 224									
120	A	Pipe	Rgt		F	Wrap	Beige	>9.9	QM
119	C	Radiator	Ctr	Cover	F	Metal	White	1.6	QM
118	C	Wall	W Ctr		P	Plaster	Beige	9.3	QM
Interior Room 039 Rm 219									
138	D	Access Door	Rgt		P	Metal	White	1.5	QM
Interior Room 040 Rms 251-56									
146	A	Vault	Ctr	Door Face	I	Metal	White	1.0	QM
147	A	Vault	Ctr	Casing	I	Metal	White	1.7	QM
160	A	Wall	U Rgt		F	Plaster	White	>9.9	QM
143	C	Wall	W Rgt		F	Plaster	White	2.3	QM
142	D	Wall	W Lft		F	Plaster	White	3.3	QM
Interior Room 042 Rm 211									
154	B	Wall	L Ctr		F	Plaster	Lt Green	7.4	QM
155	B	Wall	U Ctr		F	Plaster	White	8.0	QM
Table 2 Positively Identified Lead-Based Paint Containing Substrates, Areas and Surface Coatings (Continued)									
Table Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm²)	Mode
Interior Room 043 Rm 214									
161	A	Wall	U Ctr		F	Plaster	White	>9.9	QM
Interior Room 044 Rm 249									
162	A	Wall	U Ctr		P	Plaster	White	>9.9	QM
165	C	Wall	U Ctr		P	Plaster	White	>9.9	QM

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Interior Room 045 Rm 248									
166	A	Wall	U Ctr		P	Plaster	White	9.2	QM
169	C	Wall	U Ctr		F	Plaster	White	>9.9	QM
Interior Room 046 Rm 247									
171	B	Wall	U Ctr		F	Plaster	White	>9.9	QM
170	D	Wall	U Ctr		F	Plaster	White	>9.9	QM
Interior Room 050 Rm 241									
207	A	Radiator	Lft	Cover	F	Metal	Brown	1.3	QM
205	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
199	B	Wall	W Ctr		I	Plaster	White	9.4	QM
200	D	Wall	W Ctr		I	Plaster	White	>9.9	QM
Interior Room 051 Rm 215/217									
201	A	Wall	W Ctr		I	Plaster	White	>9.9	QM
208	A	Wall	W Ctr		I	Plaster	Beige	9.1	QM
209	B	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
202	C	Wall	W Ctr		I	Plaster	White	>9.9	QM
210	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
211	D	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
Interior Room 052 Rm 3rd East									
204	A	Wall	W Ctr		I	Plaster	White	9.1	QM
216	B	Window	Ctr	Casing	F	Wood	Brown	5.5	QM
203	C	Wall	W Ctr		I	Plaster	White	6.3	QM
Interior Room 054 Rm 209									
227	B	Wall	W Ctr		P	Plaster	Lt Green	>9.9	QM
228	B	Wall	W Ctr		P	Plaster	White	9.1	QM
Interior Room 055 Rm 212/213									
229	A	Wall	W Ctr		P	Plaster	White	>9.9	QM
230	C	Wall	W Ctr		P	Plaster	White	9.2	QM
Interior Room 056 Rm 01									
231	C	Wall	L Ctr		F	Plaster	Lt Green	3.7	QM
232	C	Wall	U Ctr		F	Plaster	White	2.6	QM
233	D	Ceiling	Ctr		F	Plaster	White	3.4	QM
235	D	Stairs	Ctr	Stringers	F	Metal	Brown	1.4	QM
234	D	Railing	Ctr	Newel Post	F	Metal	Brown	2.8	QM
Interior Room 058 Rm 02A									
239	A	Wall	W Ctr		P	Plaster	White	8.4	QM
Interior Room 059 Rm 02									
244	B	Vault	Ctr	Casing	I	Metal	Gray	1.4	QM
245	B	Vault	Ctr	Door Face	I	Metal	Gray	1.4	QM
241	B	Wall	W Ctr		F	Plaster	White	5.2	QM
242	B	Wall	W Ctr		F	Plaster	Dk Green	6.7	QM
Interior Room 060 Rm 04									
246	A	Wall	W Ctr		P	Plaster	White	5.9	QM

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Table2 Positively Identified Lead-Based Paint Containing Substrates, Areas and Surface Coatings (Continued)

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
Interior Room 061 Vault 05									
252	D	Door	Ctr	U Rgt	I	Metal	Gray	1.8	QM
Interior Room 062 Rm 06									
253	A	Wall	W Ctr		P	Plaster	White	7.5	QM
Interior Room 063 Rm 07									
254	A	Wall	W Ctr		P	Plaster	White	5.4	QM
Interior Room 066 Rm 09									
281	C	Door	Ctr	Jamb	F	Metal	Lt Green	3.3	QM
Interior Room 067 Rm 010									
284	A	Wall	U Rgt		F	Brick	Lt Green	5.1	QM
282	A	Door	Rgt	Casing	F	Metal	Lt Green	2.8	QM
283	A	Door	Rgt	U Ctr	F	Metal	Lt Green	>9.9	QM
Interior Room 072 Rm 025									
304	B	Wall	W Ctr		F	Plaster	White	9.2	QM
303	C	Wall	W Ctr		F	Plaster	White	9.0	QM
302	C	Ceiling	Ctr		F	Plaster	White	8.4	QM
Interior Room 073 Rm 015									
306	A	Wall	L Lft		P	Plaster	White	4.2	QM
305	A	Wall	U Lft		P	Plaster	White	3.0	QM
307	A	Ceiling	Lft		P	Plaster	White	2.1	QM
Interior Room 074 Rm 017									
309	D	Wall	W Ctr		P	Plaster	Green	5.1	QM
308	D	Ceiling	Ctr		P	Plaster	White	5.4	QM
Interior Room 075 Rm 022									
310	B	Wall	W Ctr		P	Plaster	Green	3.4	QM
311	B	Ceiling	Ctr		P	Plaster	White	3.8	QM
Interior Room 076 Rm 022									
312	B	Wall	W Ctr		P	Plaster	Beige	3.8	QM
Interior Room 077 Rm 023									
313	C	Wall	W Ctr		P	Plaster	Beige	4.4	QM
Interior Room 078 Rm 024									
314	D	Wall	W Ctr		P	Plaster	Beige	5.9	QM
Interior Room 079 Rm 019									
315	A	Wall	W Ctr		P	Plaster	Green	4.1	QM
321	A	Door	Lft	Casing	F	Metal	Green	4.1	QM
320	A	Door	Lft	U Ctr	F	Metal	Green	4.2	QM
318	A	Door	Rgt	Casing	F	Metal	Green	4.1	QM
319	A	Door	Rgt	U Ctr	F	Metal	Green	4.3	QM
316	C	Wall	W Ctr		P	Plaster	Green	6.3	QM



317	C	Ceiling		Ctr		F	Plaster	Green	3.6	QM
<hr/>										
Interior Room 080 Rm 021										
322	C	Door		Lft Casing		F	Metal	Green	4.3	QM

3.2 APPROXIMATE AREA OF LBP SURFACE COATINGS

As part of this Screening, it was requested Tetra Tech provide a rough estimate of the approximate area of identified LBP surfaces on tested surfaces. Due to the nature of this project, as requested by Client, a very limited number of surfaces areas and components were tested. The consistency of the removal is not known and it should be assumed that all surfaces in these offices have the potential for containing LBP.

This area approximation was accomplished using the supplied floor plans and quantity percentage calculations of certain areas of the structure. It is estimated that there is approximately 79,500 square feet (ft²) of wall and ceiling surfaces coated with LBP coatings. Of this area, approximate 18% of the surface areas or 14,500 ft² have deteriorated LBP.

3.3 APPROXIMATE COST ESTIMATE TO STABILIZE LBP COATINGS

Costs for the stabilization of the estimated components and surfaces in the building range from \$1.65 to \$2.35 per square foot for paint stabilization, including containment and use of approved lead hazard control methods and protocols. At the 18% of wall surface area determined to have deteriorated coatings (usually occurring due to substrate failure), the approximate cost range for substrate repair and stabilization range from \$2.80 to \$3.65 per square foot. Components such as steel vault doors have paint that is primarily in intact condition. Incidental trim such as picture rails have been figured as part of the wall surface area for this estimate. Total estimated costs to stabilize deteriorated coatings, including substrate repair, are \$141,000.00.

3.4 FUTURE REMODELING PRECAUTIONS

It should be noted that during this Screening, a limited number of very specific areas were tested for the presence of LBP. All lead-based paint which was identified by the XRF analyzer is detailed in this report in the Table 2 summary and locations provided in Appendix B. Because of the age of this structure, additional Screening and/or lead hazard risk assessments should occur at any and all specifically untested areas, prior to the conduct of any future activities that may in any way impact a substrate, surface, component, and/or surface coating. Dust and/or soil sample collection and analysis should follow any hazard control activity, repair, remodeling, or renovation effort, and any other work efforts that may in any way disturb known or assumed LBP and/or any lead containing materials. These Screening activities will help the Owner and all Contractors to protect the health and safety of the occupants, the Workers and the



neighborhood. Details concerning lead safe work techniques and approved hazard control methods can be found in the HUD publication entitled: "*Guidelines for the Evaluation and Control of LBP Hazards in Housing*" (June 1995 & 1997 Revision).

3.5 LEAD BASED PAINT SCREENING CONDITIONS & LIMITATIONS

Tetra Tech and the applicable personnel have performed the Client requested tasks listed above in a thorough and professional manner consistent with commonly accepted standard industry practices, using state of the art practices and best available known technology, as of the date of the Screening. Tetra Tech cannot guarantee and does not warrant that this Screening has identified all lead-based paint (LBP) and/or LBP Hazards which may have been present on the property as of the date of the Screening. Due to our narrow scope of work, Tetra Tech also cannot and will not guarantee that any/all other possible adverse environmental factors and/or conditions affecting the subject property were identified on the date of the Screening. It is not at all or in any way possible to test every part of every interior or exterior surface of any property or structure to identify all LBP or LBP Hazards. This is why federal and state agency protocols and standard industry practices dictate that components and/or substrate types are grouped together based upon generally accepted factors of homogeneity (e.g., Owner supplied data, color, appearance, apparent functional uses, etc.). Tetra Tech cannot and will not warrant that the Screening that was requested by the Owner will satisfy the dictates of, or provide a legal defense in connection with, any environmental laws or regulations. It is the responsibility of the Owner to know and abide by all applicable laws, regulations, and standards.

The results reported and conclusions reached by Tetra Tech are solely for the benefit of the above named Client. The results and opinions in this report, based solely upon the analytical results provided to Tetra Tech, as well as the conditions found on the property as of the date of the Screening, will be valid only as of the date of the Screening. Tetra Tech assumes no responsibility and has no obligation to advise the Client of any changes in any real or potential lead hazards at this residence that may or may not be later brought to our attention. Further conditions and limitations to this contracted report are included in the general terms and conditions supplied to the Client with the contract for services.

Please remember that based upon standard industry practices and federal/state protocols, lead-based paint Screening, occurred at a very limited number of locations in the structure; LBP, LBP Hazards and/or Lead-Containing Materials (LCM) could still be present in the unit at any and all areas not specifically tested as part of this Screening effort. Great care should be taken by the Client and Contractor if, at a later date, any repair, repainting, maintenance, remodeling, landscaping, or renovation activities, or any similar types of activities, disturb any dust, soil, paint, component, and/or substrate where the concentrations of lead are not specifically and empirically known. In lieu of any additional Screening, all surfaces, components, substrates, dusts, soils, and Paint should be assumed to contain hazardous and dangerous levels of lead.

It should also be noted that concentrations of lead which are identified in surface coatings, dust and/or soil, which are less than the guideline and/or statutory levels, does not mean that there is not a real potential for human health risks. Instances of higher than normal blood lead level concentrations have been reported in



individuals who occupy structures where LBP and/or LBP Hazards (as indicated by State and Federal definition) were not identified.

APPENDIX A
ACCREDITATION DOCUMENTATION

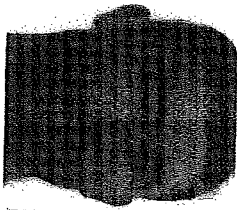
CERTIFICATION NUMBER: 7011020309MOIR6054

THIS CERTIFIES

Joshua L. Johnson

Inspector

HAS COMPLETED THE CERTIFICATION REQUIREMENTS FOR



APPROVED: 3/12/2009

EXPIRES: 3/12/2010



Missouri
Department of
Natural Resources

Paul L. Karamanukh
Director of Air Pollution Control and Program

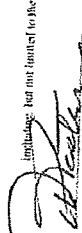
Certificate of Achievement

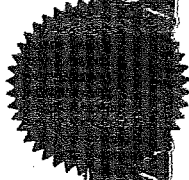
This is to certify that

Larry Hopkins

on the 13th day of April 2007 successfully completed the factory training for
RMD's LPA-1 Lead Paint Inspection System

including but not limited to the topics of Radiation Safety, DPA Regulations, and the Proper Use of the Instrument.


Jacob Prater, Vice President, RMD
44 Humb St., Wintertown, Massachusetts



**STATE OF MISSOURI
ENVIRONMENTAL REGULATION & LICENSURE**

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

LARRY HOPKINS

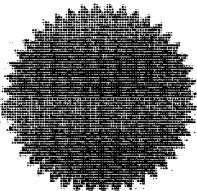
The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessment
Category of Licensee

Issuance Date: 1/3/2009
Expiration Date: 1/3/2011
License Number: 010109200042907


Jane Drummond
Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102



**STATE OF MISSOURI
ENVIRONMENTAL REGULATION & LICENSURE**

Lead Abatement Contractor License

The person, firm or corporation whose name appears on this certificate is licensed as a Lead Abatement Contractor as set forth in the Missouri Revised Statutes 701.300-701.338 and 19 CSR 30-70.180, as long as not suspended or revoked, and is hereby authorized to engage in lead-bearing substance activities.

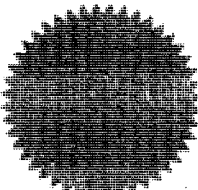
Issued to:

**Baker Environmental Consulting, Inc.
7941 Westgate
Lenexa, KS 66215**

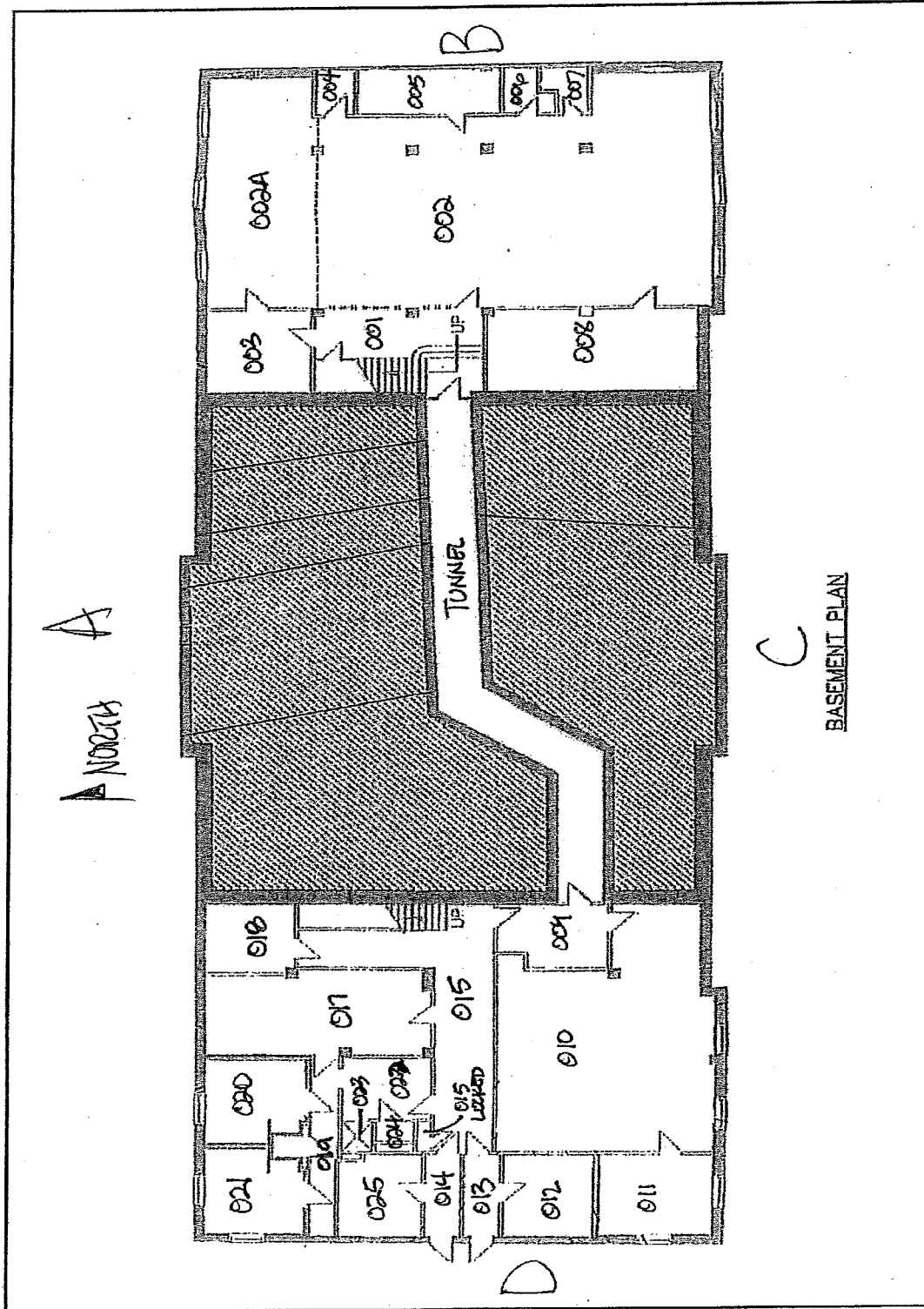
Issuance Date: December 28, 2007
Expiration Date: December 28, 2009
License Number: 991228-7344


Jane Drummond
Director
Department of Health and Senior Services

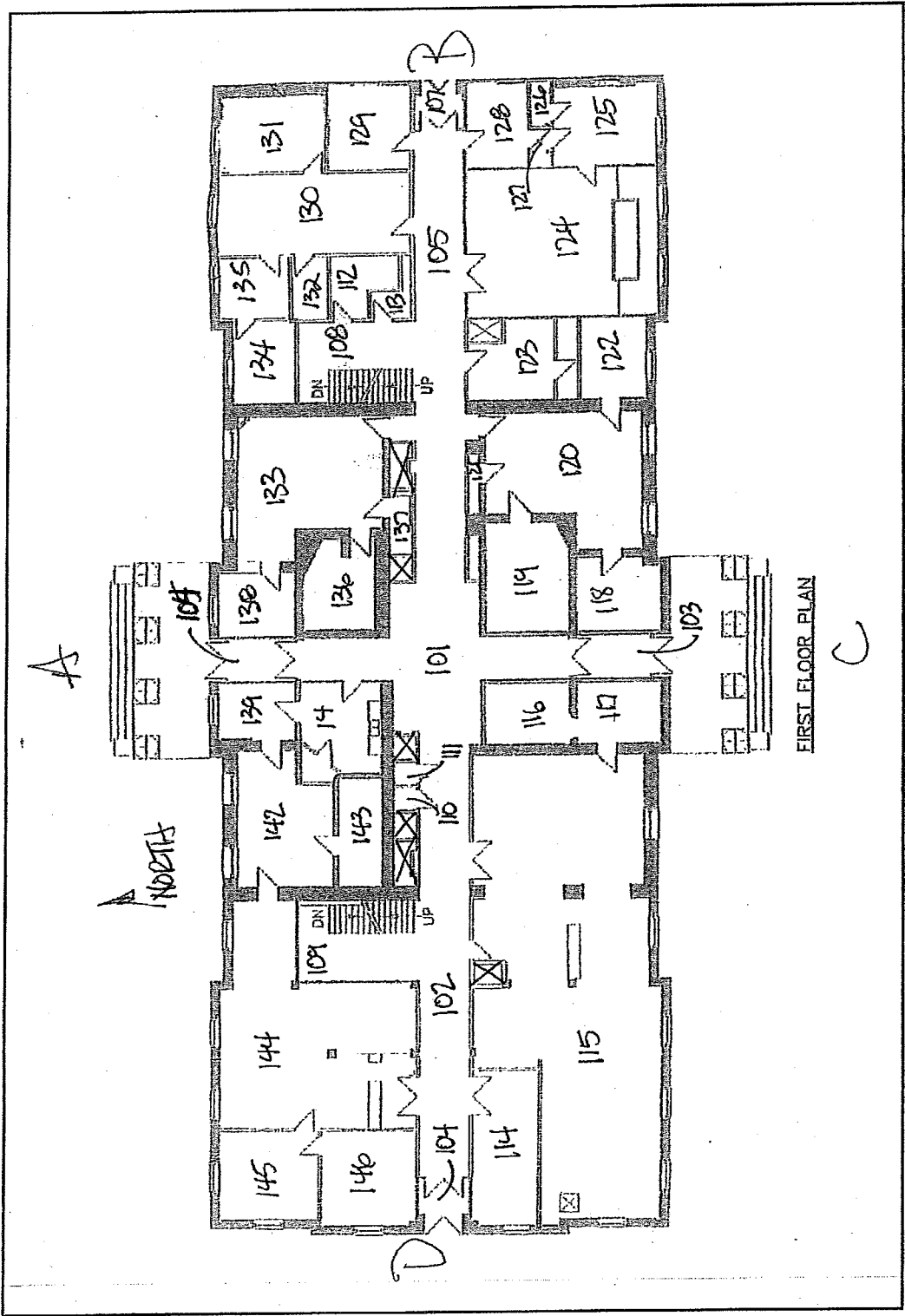
Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

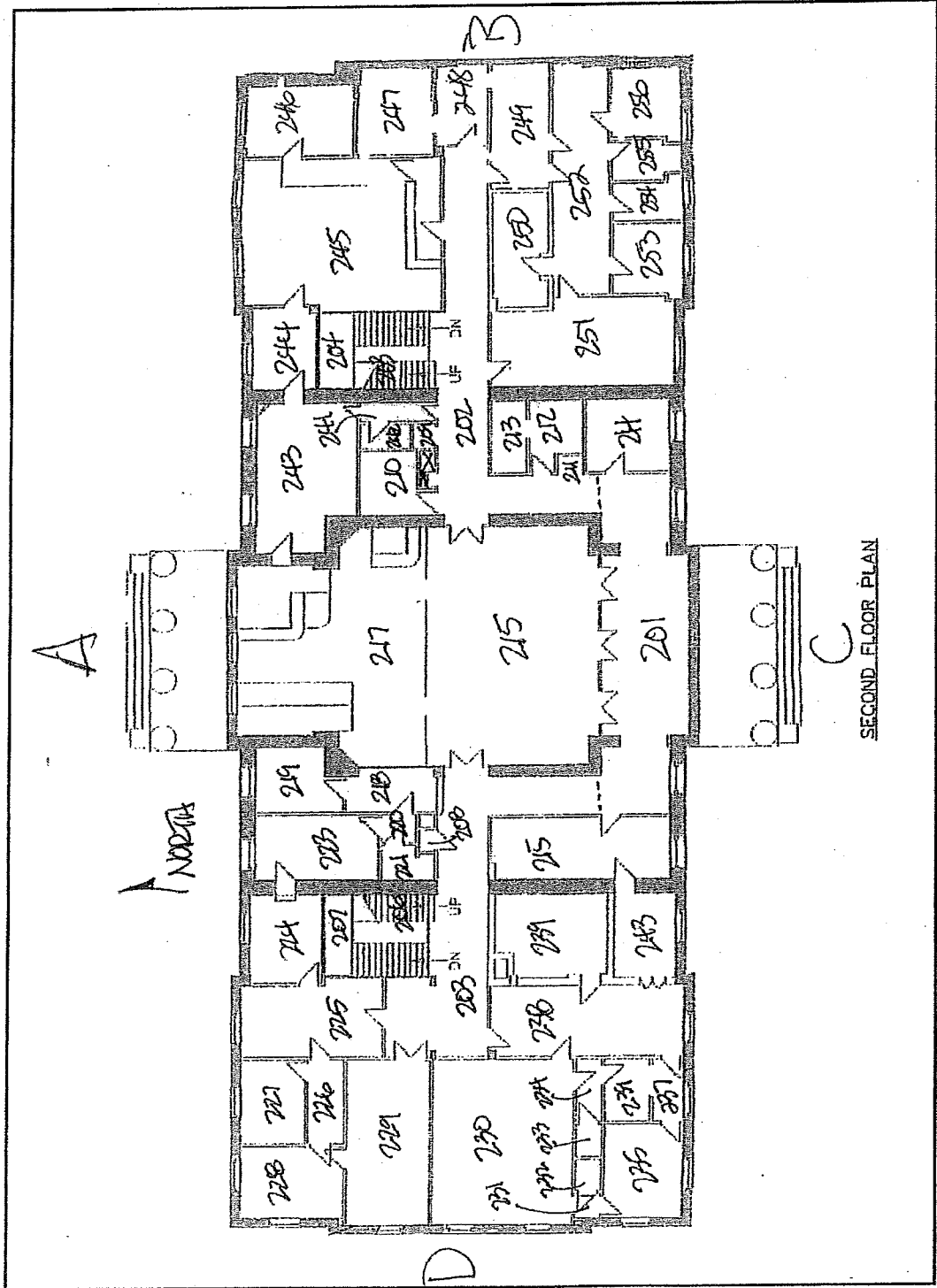


APPENDIX B
FLOOR PLANS



BASEMENT PLAN





A

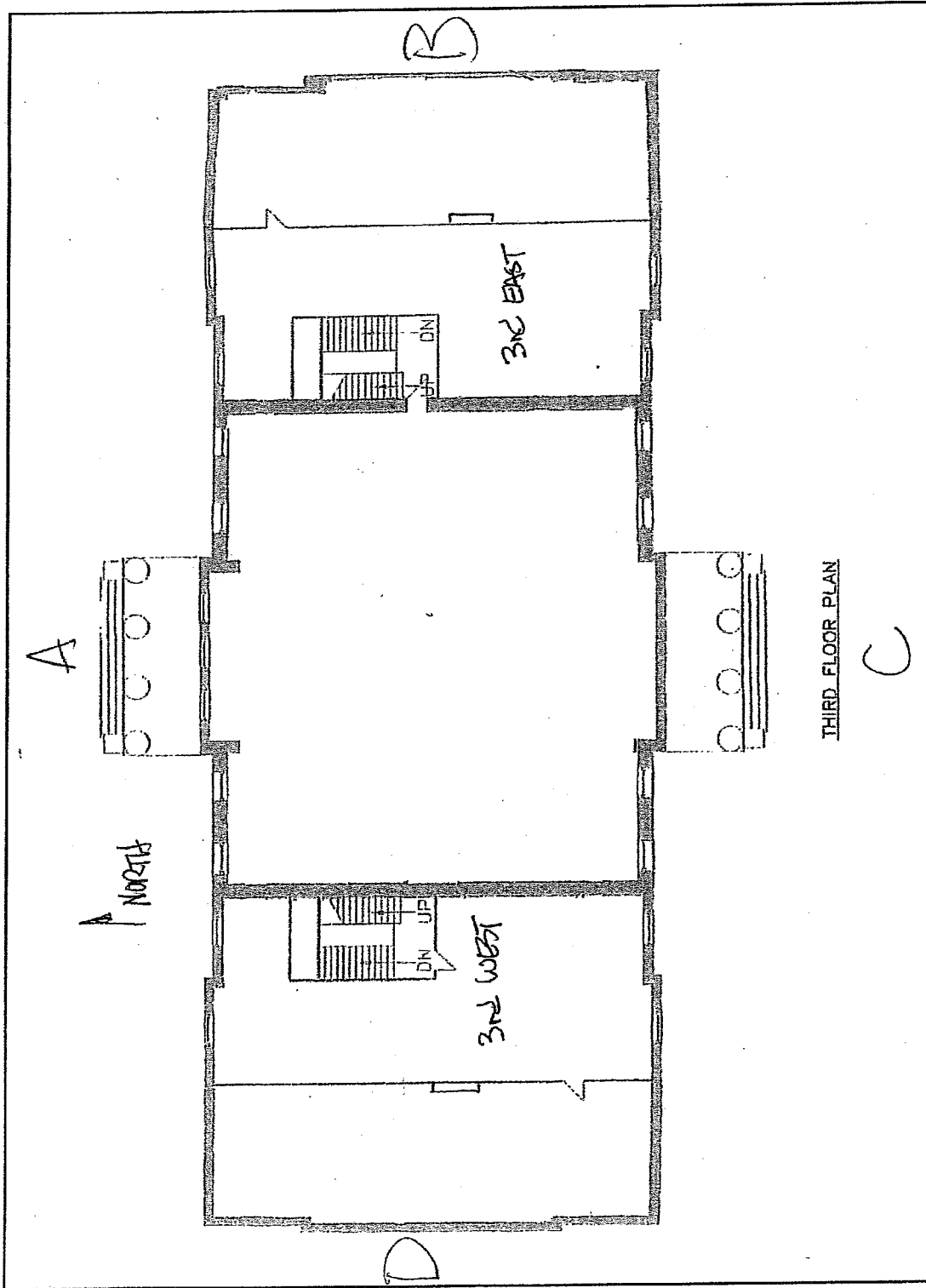
NORTH

D

B

C

SECOND FLOOR PLAN



APPENDIX C
XRF LEAD DATA

SEQUENTIAL REPORT OF LEAD PAINT SCREENING
Independence Missouri Courthouse
4-27-09 Morning

Screening Date: 04/27/09
 Report Date: 4/29/2009
 Abatement Level: 1.0
 Report No. S#01546 - 04/27/09 08:52
 Total Readings: 258
 Job Started: 04/27/09 08:52
 Job Finished: 04/27/09 12:01

Read No.	Room Rm	Room Name	Wall Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
1		CALIBRATION							0.0	TC
2		CALIBRATION							0.0	TC
3		CALIBRATION							0.0	TC
4		CALIBRATION							1.0	TC
5		CALIBRATION							1.0	TC
6		CALIBRATION							1.1	TC
<u>7</u>	<u>001</u>	<u>Room 128</u>	<u>A Ceiling</u>		<u>Ctr</u>	<u>I Plaster</u>		<u>White</u>	<u>>9.9</u>	<u>QM</u>
8	001	Room 128	A Pic Rail		Ctr	I Wood		Stained	-0.2	QM
<u>9</u>	<u>001</u>	<u>Room 128</u>	<u>A Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>4.2</u>	<u>QM</u>
<u>10</u>	<u>001</u>	<u>Room 128</u>	<u>B Wall</u>		<u>W Ctr</u>	<u>P Plaster</u>		<u>Beige</u>	<u>6.8</u>	<u>QM</u>
<u>11</u>	<u>001</u>	<u>Room 128</u>	<u>C Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>>9.9</u>	<u>QM</u>
<u>12</u>	<u>001</u>	<u>Room 128</u>	<u>D Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>8.3</u>	<u>QM</u>
13	001	Room 128	D Baseboard		Ctr	I Wood		Stained	0.0	QM
14	001	Room 128	D Floor		Ctr	F Vinyl		Brown	-0.2	QM
15	001	Room 128	A Door	Lft	Casing	I Wood		Stained	-0.2	QM
16	001	Room 128	A Door	Lft	Jamb	I Wood		Stained	-0.1	QM
17	001	Room 128	A Door	Lft	U Ctr	I Wood		Stained	0.0	QM
<u>18</u>	<u>001</u>	<u>Room 128</u>	<u>A Pipe</u>		<u>Rgt</u>	<u>I Wrap</u>		<u>Beige</u>	<u>>9.9</u>	<u>QM</u>
19	001	Room 128	B Radiator		Rgt	F Metal		Black	-0.2	QM
20	001	Room 128	B Window	Rgt	Sill	I Stone		N/A	-0.2	QM
21	001	Room 128	B Window	Rgt	Casing	I Wood		Stained	-0.2	QM
22	001	Room 128	C Panel Box	Lft		I Metal		Beige	-0.2	QM
23	001	Room 128	C Wire Mold	Lft		I Metal		Beige	0.2	QM
24	001	Room 128	C Door	Rgt	Casing	I Wood		Stained	0.6	QM
25	001	Room 128	C Door	Rgt	Jamb	F Wood		Stained	0.4	QM
26	001	Room 128	C Door	Rgt	U Ctr	I Wood		Stained	-0.4	QM
<u>27</u>	<u>002</u>	<u>Room 127</u>	<u>A Ceiling</u>		<u>Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>>9.9</u>	<u>QM</u>
<u>28</u>	<u>002</u>	<u>Room 127</u>	<u>A Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>>9.9</u>	<u>QM</u>
<u>29</u>	<u>002</u>	<u>Room 127</u>	<u>B Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>>9.9</u>	<u>QM</u>
<u>30</u>	<u>002</u>	<u>Room 127</u>	<u>C Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>6.4</u>	<u>QM</u>
<u>31</u>	<u>002</u>	<u>Room 127</u>	<u>D Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>>9.9</u>	<u>QM</u>
32	002	Room 127	A Door		Ctr Casing	I Wood		Stained	0.1	QM
33	002	Room 127	A Door		Ctr U Ctr	I Wood		Stained	0.3	QM
34	002	Room 127	C Door		Ctr Casing	I Wood		Stained	-0.1	QM
35	002	Room 127	C Door		Ctr Jamb	I Wood		Stained	0.0	QM
36	002	Room 127	D Door		Ctr Jamb	I Wood		Stained	-0.1	QM
37	002	Room 127	D Door		Ctr Casing	I Wood		Stained	-0.1	QM
38	002	Room 127	D Door		Ctr U Ctr	I Wood		Stained	-0.2	QM
39	003	Rm 127 C1	B Door		Ctr U Ctr	I Wood		Stained	0.2	QM
40	003	Rm 127 C1	B Door		Ctr Casing	I Wood		Stained	0.8	QM
<u>41</u>	<u>003</u>	<u>Rm 127 C1</u>	<u>A Wall</u>		<u>W Ctr</u>	<u>F Plaster</u>		<u>Beige</u>	<u>>9.9</u>	<u>QM</u>
<u>42</u>	<u>003</u>	<u>Rm 127 C1</u>	<u>B Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>4.4</u>	<u>QM</u>
<u>43</u>	<u>003</u>	<u>Rm 127 C1</u>	<u>C Wall</u>		<u>W Ctr</u>	<u>P Plaster</u>		<u>Beige</u>	<u>8.1</u>	<u>QM</u>
<u>44</u>	<u>003</u>	<u>Rm 127 C1</u>	<u>D Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>7.5</u>	<u>QM</u>
<u>45</u>	<u>003</u>	<u>Rm 127 C1</u>	<u>D Ceiling</u>		<u>Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>>9.9</u>	<u>QM</u>
46	003	Rm 127 C1	D Shelf		Ctr	I Wood		Stained	0.2	QM

47	003	Rm 127 Cl	D	Shelf Support	Ctr	I	Wood	Stained	0.4	QM
48	004	Room 125	A	Ceiling	Ctr	F	Plaster	White	>9.9	QM
49	004	Room 125	A	Wall	W Ctr	F	Plaster	Beige	5.1	QM
50	004	Room 125	B	Wall	W Ctr	F	Plaster	Beige	5.3	QM
51	004	Room 125	C	Wall	W Ctr	F	Plaster	Beige	5.3	QM
52	004	Room 125	D	Wall	W Ctr	F	Plaster	Beige	6.0	QM
53	004	Room 125	D	Baseboard	Ctr	I	Wood	Stained	-0.4	QM
54	004	Room 125	D	Floor	Ctr	I	Vinyl	Brown	0.6	QM
55	004	Room 125	A	Door	Lft Casing	I	Wood	Stained	-0.1	QM
56	004	Room 125	A	Door	Lft Jamb	I	Wood	Stained	-0.1	QM
57	004	Room 125	A	Door	Rgt Jamb	I	Wood	Stained	-0.3	QM
58	004	Room 125	A	Door	Rgt Casing	I	Wood	Stained	-0.2	QM
59	004	Room 125	A	Door	Rgt U Ctr	I	Wood	Stained	-0.2	QM
60	004	Room 125	B	Window	Ctr Casing	I	Wood	Stained	0.2	QM
61	004	Room 125	C	Window	Ctr Casing	I	Wood	Stained	-0.2	QM
62	004	Room 125	D	Door	Ctr Casing	I	Wood	Stained	-0.2	QM
63	004	Room 125	D	Door	Ctr U Ctr	I	Wood	Stained	-0.2	QM
64	004	Room 125	D	Door	Ctr Jamb	I	Wood	Stained	-0.1	QM
65	005	Room 126	C	Door	Ctr Casing	I	Wood	Stained	-0.3	QM
66	005	Room 126	C	Door	Ctr U Ctr	I	Wood	Stained	0.0	QM
67	005	Room 126	A	Ceiling	Ctr	I	Plaster	Beige	>9.9	QM
68	005	Room 126	A	Wall	W Ctr	I	Plaster	Beige	5.1	QM
69	005	Room 126	B	Wall	W Ctr	I	Plaster	Beige	>9.9	QM
70	005	Room 126	C	Wall	W Ctr	I	Plaster	Beige	6.1	QM
71	005	Room 126	D	Wall	W Ctr	I	Plaster	Beige	>9.9	QM
72	005	Room 126	D	Baseboard	Ctr	I	Wood	Stained	-0.2	QM
73	005	Room 126	D	Floor	Ctr	I	Vinyl	N/A	0.0	QM
74	005	Room 126	C	Shelf	Rgt	F	Wood	White	0.1	QM
75	005	Room 126	C	Shelf Support	Rgt	I	Wood	White	-0.1	QM
76	004	Room 125	D	Pic Rail	Ctr	I	Wood	Stained	-0.1	QM
77	006	Room 124	D	Ceiling	Ctr	I	Plaster	White	>9.9	QM
78	006	Room 124	D	Pic Rail	Ctr	I	Wood	Stained	-0.3	QM
79	006	Room 124	D	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
80	006	Room 124	A	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
81	006	Room 124	B	Wall	W Ctr	I	Plaster	Beige	>9.9	QM
82	006	Room 124	C	Wall	W Ctr	F	Plaster	Beige	9.1	QM
83	006	Room 124	C	Baseboard	Ctr	I	Wood	Stained	0.1	QM
84	006	Room 124	C	Floor	Ctr	I	Vinyl	Brown	-0.1	QM
85	006	Room 124	C	Radiator	Lft	F	Metal	Black	-0.1	QM
86	006	Room 124	C	Radiator	Lft	F	Metal	Black	0.5	QM
87	006	Room 124	C	Radiator	Rgt	F	Metal	Black	0.7	QM
88	006	Room 124	C	Window	Rgt Casing	I	Wood	Stained	0.0	QM
89	006	Room 124	C	Window	Lft Casing	I	Wood	Stained	0.0	QM
90	006	Room 124	C	Desk	Ctr	I	Wood	Stained	0.0	QM
91	006	Room 124	C	Step	Lft	F	Wood	Stained	0.1	QM
92	006	Room 124	B	Railing	Ctr Post	I	Metal	Black	1.0	QM
93	006	Room 124	D	Railing	Ctr Newel Post	I	Metal	Black	1.3	QM
94	006	Room 124	B	Door	Ctr Casing	I	Wood	Stained	-0.1	QM
95	006	Room 124	B	Door	Ctr U Ctr	I	Wood	Stained	-0.2	QM
96	006	Room 124	D	Door	Ctr U Ctr	I	Wood	Stained	-0.1	QM
97	006	Room 124	D	Door	Ctr Casing	I	Wood	Stained	0.0	QM
98	006	Room 124	D	Door	Ctr Jamb	I	Wood	Stained	-0.2	QM
99	006	Room 124	A	Door	Ctr Jamb	I	Wood	Stained	-0.1	QM
100	006	Room 124	A	Door	Ctr Casing	I	Wood	Stained	-0.2	QM
101	006	Room 124	A	Door	Ctr U Rgt	I	Wood	Stained	-0.3	QM
102	006	Room 124	A	Door	Ctr U Lft	I	Wood	Stained	-0.6	QM
103	006	Room 124	A	Bench	Lft	I	Wood	Stained	-0.2	QM
104	007	Hall 107	A	Ceiling	Ctr	I	Plaster	White	>9.9	QM
105	007	Hall 107	A	Wall	U Ctr	F	Plaster	White	8.3	QM
106	007	Hall 107	B	Wall	U Ctr	F	Plaster	White	8.3	QM
107	007	Hall 107	C	Wall	U Ctr	F	Plaster	White	8.1	QM
108	007	Hall 107	D	Wall	U Ctr	F	Plaster	White	8.6	QM
109	007	Hall 107	A	Wall	L Ctr	P	Plaster	Beige	1.8	QM

110	007	Hall	107	B	Wall	L	Lft	F	Plaster	Beige	1.5	QM
111	007	Hall	107	C	Wall	L	Ctr	P	Plaster	Beige	0.5	QM
112	007	Hall	107	D	Wall	L	Lft	P	Plaster	Beige	0.8	QM
113	007	Hall	107	A	Radiator		Ctr	I	Metal	Black	-0.5	QM
114	007	Hall	107	B	Door		Ctr U Ctr	F	Wood	White	-0.3	QM
115	007	Hall	107	B	Door		Ctr Casing	F	Wood	Stained	-0.3	QM
116	007	Hall	107	B	Door		Ctr Jamb	F	Wood	Stained	-0.4	QM
117	007	Hall	107	C	Door		Ctr Jamb	F	Wood	Stained	0.0	QM
118	007	Hall	107	C	Door		Ctr Casing	F	Wood	Stained	-0.2	QM
119	007	Hall	107	C	Door		Ctr U Ctr	F	Wood	Stained	-0.2	QM
120	008	Hall	105	B	Ceiling		Ctr	I	Plaster	White	>9.9	QM
121	008	Hall	105	B	Pic Rail		Ctr	I	Wood	Stained	-0.1	QM
122	008	Hall	105	B	Wall	U	Ctr	P	Plaster	White	>9.9	QM
123	008	Hall	105	C	Wall	U	Ctr	P	Plaster	White	8.3	QM
124	008	Hall	105	D	Wall	U	Ctr	P	Plaster	White	9.0	QM
125	008	Hall	105	A	Wall	U	Ctr	P	Plaster	White	7.1	QM
126	008	Hall	105	A	Wall	I	Ctr	F	Plaster	Beige	1.4	QM
127	008	Hall	105	B	Wall	L	Ctr	F	Plaster	Beige	1.5	QM
128	008	Hall	105	C	Wall	I	Ctr	F	Plaster	Beige	1.3	QM
129	008	Hall	105	D	Wall	L	Ctr	F	Plaster	Beige	1.4	QM
130	008	Hall	105	D	Baseboard		Ctr	I	Wood	Stained	0.0	QM
131	008	Hall	105	D	Floor		Ctr	I	Vinyl	Brown	-0.2	QM
132	008	Hall	105	D	Floor		Ctr	I	Vinyl	Black	-0.1	QM
133	008	Hall	105	A	Door		Lft Casing	I	Wood	Stained	0.1	QM
134	008	Hall	105	A	Door		Lft Jamb	I	Wood	Stained	-0.4	QM
135	008	Hall	105	A	Door		Lft U Ctr	I	Wood	Stained	-0.1	QM
136	008	Hall	105	A	Door		Ctr U Ctr	I	Wood	Stained	-0.1	QM
137	008	Hall	105	A	Door		Ctr Casing	I	Wood	Stained	-0.1	QM
138	008	Hall	105	A	Door		Ctr Jamb	I	Wood	Stained	0.0	QM
139	008	Hall	105	A	Door		Rgt Jamb	I	Wood	Stained	0.1	QM
140	008	Hall	105	A	Door		Rgt Casing	I	Wood	Stained	-0.1	QM
141	008	Hall	105	A	Door		Rgt U Ctr	I	Wood	Stained	0.1	QM
142	008	Hall	105	B	Door		Ctr U Ctr	I	Wood	Stained	0.1	QM
143	008	Hall	105	B	Door		Ctr Casing	I	Wood	Stained	0.0	QM
144	008	Hall	105	C	Door		Lft Casing	I	Wood	Stained	0.1	QM
145	008	Hall	105	C	Door		Lft U Ctr	I	Wood	Stained	0.1	QM
146	008	Hall	105	C	Door		Ctr U Ctr	I	Wood	Stained	-0.1	QM
147	008	Hall	105	C	Door		Ctr Casing	I	Wood	Stained	0.1	QM
148	008	Hall	105	C	Door		Ctr Casing	I	Wood	Stained	-0.2	QM
149	008	Hall	105	C	Door		Ctr Jamb	I	Wood	Stained	-0.2	QM
150	008	Hall	105	C	Door		Ctr U Ctr	I	Wood	Stained	-0.2	QM
151	008	Hall	105	C	Door		Rgt U Ctr	I	Wood	Stained	0.0	QM
152	008	Hall	105	C	Door		Rgt Casing	I	Wood	Stained	-0.3	QM
153	008	Hall	105	C	Door		Rgt Jamb	I	Wood	Stained	0.0	QM
154	008	Hall	105	A	Access Door		Ctr	F	Metal	Red	2.1	QM
155	008	Hall	105	A	Access Door		Ctr	F	Metal	Beige	-0.3	QM
156	009	Hall	101	A	Ceiling		Ctr	I	Plaster	White	>9.9	QM
157	009	Hall	101	A	Crown Mldg		Ctr	I	Wood	White	>9.9	QM
158	009	Hall	101	A	Door		Ctr Casing	I	Wood	Stained	-0.2	QM
159	009	Hall	101	A	Door		Ctr Jamb	I	Wood	Stained	0.1	QM
160	009	Hall	101	A	Door		Ctr U Ctr	I	Wood	Stained	0.0	QM
161	009	Hall	101	A	Bulletin Bd		Rgt Frame	I	Wood	Stained	-0.1	QM
162	009	Hall	101	C	Door		Ctr Casing	I	Wood	Stained	-0.1	QM
163	009	Hall	101	C	Door		Ctr U Ctr	I	Wood	Stained	-0.1	QM
164	009	Hall	101	D	Radiator		Lft	I	Metal	Black	0.2	QM
165	009	Hall	101	B	Radiator		Lft	I	Metal	Black	0.1	QM
166	009	Hall	101	D	Door		Rgt Casing	I	Wood	Stained	-0.6	QM
167	009	Hall	101	D	Door		Rgt Jamb	I	Wood	Stained	0.0	QM

168	009	Hall	101	D	Door		Rgt	U	Ctr	I	Wood	Stained	-0.1	QM
169	010	Hall	109	A	Ceiling		Ctr			I	Plaster	White	>9.9	QM
170	010	Hall	109	A	Wall		Ctr			I	Plaster	White	8.5	QM
171	010	Hall	109	B	Wall	U	Ctr			I	Plaster	White	9.3	QM
172	010	Hall	109	C	Wall	U	Ctr			I	Plaster	White	8.1	QM
173	010	Hall	109	D	Wall	U	Ctr			F	Plaster	White	8.3	QM
174	010	Hall	109	D	Wall	L	Ctr			I	Plaster	Beige	2.1	QM
175	010	Hall	109	A	Wall	L	Ctr			I	Plaster	Beige	1.4	QM
176	010	Hall	109	B	Wall	L	Ctr			I	Plaster	Beige	1.4	QM
177	010	Hall	109	C	Wall	L	Ctr			I	Plaster	Beige	1.5	QM
178	010	Hall	109	A	Door		Ctr	U	Ctr	I	Wood	White	-0.2	QM
179	010	Hall	109	A	Door		Ctr		Casing	I	Wood	Stained	-0.2	QM
180	010	Hall	109	A	Door		Ctr		Jamb	I	Wood	Stained	0.0	QM
181	010	Hall	109	C	Door		Ctr		Jamb	I	Wood	Stained	-0.2	QM
182	010	Hall	109	C	Door		Ctr		Casing	I	Wood	Stained	-0.1	QM
183	010	Hall	109	C	Door		Ctr	U	Ctr	I	Wood	Stained	-0.1	QM
184	011	Hall	103	A	Ceiling		Ctr			I	Plaster	White	>9.9	QM
185	011	Hall	103	A	Wall	U	Ctr			F	Plaster	White	>9.9	QM
186	011	Hall	103	B	Wall	U	Ctr			P	Plaster	White	7.3	QM
187	011	Hall	103	C	Wall	U	Ctr			F	Plaster	White	8.8	QM
188	011	Hall	103	D	Wall	U	Ctr			P	Plaster	White	1.3	QM
189	011	Hall	103	D	Wall	L	Ctr			P	Plaster	Beige	0.7	QM
190	011	Hall	103	B	Wall	L	Ctr			P	Plaster	Beige	2.1	QM
191	011	Hall	103	C	Wall	L	Rgt			F	Plaster	Beige	1.3	QM
192	011	Hall	103	A	Wall	L	Lft			F	Plaster	Beige	3.1	QM
193	011	Hall	103	A	Door		Ctr		Casing	I	Wood	Stained	0.0	QM
194	011	Hall	103	A	Door		Ctr		Jamb	I	Wood	Stained	0.0	QM
195	011	Hall	103	A	Door		Ctr	U	Ctr	I	Wood	Stained	-0.4	QM
196	011	Hall	103	C	Door		Ctr		Casing	I	Wood	Stained	-0.3	QM
197	011	Hall	103	C	Door		Ctr		Jamb	I	Wood	Stained	0.0	QM
198	011	Hall	103	C	Door		Ctr	U	Ctr	F	Wood	White	-0.3	QM
199	012	Hall	102	A	Ceiling		Rgt			I	Plaster	White	9.4	QM
200	012	Hall	102	A	Pic Rail		Rgt			I	Wood	Stained	-0.4	QM
201	012	Hall	102	A	Wall	U	Ctr			I	Plaster	White	>9.9	QM
202	012	Hall	102	B	Wall	U	Ctr			I	Plaster	White	7.7	QM
203	012	Hall	102	C	Wall	U	Ctr			P	Plaster	White	8.4	QM
204	012	Hall	102	D	Wall	U	Ctr			I	Plaster	White	8.9	QM
205	012	Hall	102	D	Wall	L	Ctr			I	Plaster	Beige	1.2	QM
206	012	Hall	102	C	Wall	L	Ctr			I	Plaster	Beige	1.0	QM
207	012	Hall	102	B	Wall	L	Ctr			I	Plaster	Beige	2.3	QM
208	012	Hall	102	A	Wall	L	Ctr			I	Plaster	Beige	1.0	QM
209	012	Hall	102	A	Baseboard		Ctr			I	Wood	Stained	-0.2	QM
210	012	Hall	102	A	Radiator		Lft			I	Metal	Black	-0.3	QM
211	012	Hall	102	A	Door		Lft		Casing	I	Wood	Stained	-0.2	QM
212	012	Hall	102	A	Door		Lft		Jamb	I	Wood	Stained	-0.5	QM
213	012	Hall	102	A	Door		Lft	U	Ctr	I	Wood	Stained	-0.6	QM
214	012	Hall	102	A	Door		Ctr	U	Ctr	I	Wood	Stained	-0.1	QM
215	012	Hall	102	A	Door		Ctr		Casing	I	Wood	Stained	0.2	QM
216	012	Hall	102	A	Door		Ctr		Jamb	I	Wood	Stained	-0.2	QM
217	012	Hall	102	A	Door		Rgt		Jamb	I	Wood	Stained	-0.3	QM
218	012	Hall	102	A	Door		Rgt		Casing	I	Wood	Stained	-0.3	QM
219	012	Hall	102	A	Door		Rgt	U	Ctr	I	Wood	Stained	-0.4	QM
220	012	Hall	102	C	Door		Lft	U	Ctr	I	Wood	Stained	-0.7	QM
221	012	Hall	102	C	Door		Lft		Casing	I	Wood	Stained	-0.3	QM
222	012	Hall	102	C	Door		Lft		Jamb	I	Wood	Stained	-0.8	QM
223	012	Hall	102	C	Door		Ctr		Jamb	I	Wood	Stained	-0.3	QM
224	012	Hall	102	C	Door		Ctr		Casing	I	Wood	Stained	-0.1	QM
225	012	Hall	102	C	Door		Ctr	U	Ctr	I	Wood	Stained	-0.2	QM
226	012	Hall	102	C	Door		Rgt	U	Ctr	I	Wood	Stained	0.1	QM
227	012	Hall	102	C	Door		Rgt		Casing	I	Wood	Stained	0.0	QM
228	012	Hall	102	C	Door		Rgt		Jamb	I	Wood	Stained	0.2	QM
229	012	Hall	102	A	Access Door		Lft			F	Metal	Beige	-0.1	QM
230	012	Hall	102	A	Access Door		Lft			P	Metal	Beige	-0.2	QM

231	012	Hall	102	A	Access Door	Rgt	I	Metal	Red	0.2	QM
<u>232</u>	<u>012</u>	<u>Hall</u>	<u>102</u>	<u>A</u>	<u>Phone Rm</u>	<u>Rgt Wall</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>9.5</u>	<u>QM</u>
233	012	Hall	102	A	Phone Rm	Rgt Shelf	I	Wood	Stained	-0.1	QM
234	012	Hall	102	A	Phone Rm	Rgt Ceiling	I	Plaster	White	-0.3	QM
235	012	Hall	102	A	Closet	Rgt Ceiling	I	Plaster	Beige	-0.3	QM
236	012	Hall	102	A	Closet	Rgt Wall	I	Plaster	Beige	-0.1	QM
237	012	Hall	102	A	Closet	Rgt Shelf	I	Wood	Stained	0.1	QM
<u>238</u>	<u>013</u>	<u>Hall</u>	<u>104</u>	<u>A</u>	<u>Ceiling</u>	<u>Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>>9.9</u>	<u>QM</u>
<u>239</u>	<u>013</u>	<u>Hall</u>	<u>104</u>	<u>A</u>	<u>Wall</u>	<u>U Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>>9.9</u>	<u>QM</u>
<u>240</u>	<u>013</u>	<u>Hall</u>	<u>104</u>	<u>B</u>	<u>Wall</u>	<u>U Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>>9.9</u>	<u>QM</u>
<u>241</u>	<u>013</u>	<u>Hall</u>	<u>104</u>	<u>C</u>	<u>Wall</u>	<u>U Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>>9.9</u>	<u>QM</u>
<u>242</u>	<u>013</u>	<u>Hall</u>	<u>104</u>	<u>D</u>	<u>Wall</u>	<u>U Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>9.1</u>	<u>QM</u>
<u>243</u>	<u>013</u>	<u>Hall</u>	<u>104</u>	<u>D</u>	<u>Wall</u>	<u>L Ctr</u>	<u>F</u>	<u>Plaster</u>	<u>Beige</u>	<u>1.4</u>	<u>QM</u>
<u>244</u>	<u>013</u>	<u>Hall</u>	<u>104</u>	<u>C</u>	<u>Wall</u>	<u>L Ctr</u>	<u>F</u>	<u>Plaster</u>	<u>Beige</u>	<u>1.4</u>	<u>QM</u>
<u>245</u>	<u>013</u>	<u>Hall</u>	<u>104</u>	<u>B</u>	<u>Wall</u>	<u>L Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>Beige</u>	<u>1.3</u>	<u>QM</u>
<u>246</u>	<u>013</u>	<u>Hall</u>	<u>104</u>	<u>A</u>	<u>Wall</u>	<u>L Ctr</u>	<u>F</u>	<u>Plaster</u>	<u>Beige</u>	<u>1.0</u>	<u>QM</u>
247	013	Hall	104	B	Door	Ctr Casing	I	Wood	Stained	0.1	QM
248	013	Hall	104	B	Door	Ctr Jamb	I	Wood	Stained	0.2	QM
249	013	Hall	104	B	Door	Ctr U Ctr	I	Wood	Stained	0.1	QM
250	013	Hall	104	D	Door	Ctr U Ctr	I	Wood	White	0.0	QM
251	013	Hall	104	D	Door	Ctr Casing	I	Wood	Stained	-0.1	QM
252	013	Hall	104	D	Door	Ctr Jamb	I	Wood	Stained	0.0	QM
253		CALIBRATION								0.1	TC
254		CALIBRATION								0.0	TC
255		CALIBRATION								0.0	TC
256		CALIBRATION								1.0	TC
257		CALIBRATION								1.0	TC
258		CALIBRATION								1.0	TC

---- End of Readings ----

SUMMARY REPORT OF LEAD PAINT SCREENING

Screening Date: 04/27/09
 Report Date: 4/29/2009
 Abatement Level: 1.0
 Report No. S#01546 - 04/27/09 08:52
 Total Readings: 258 Actionable: 88
 Job Started: 04/27/09 08:52
 Job Finished: 04/27/09 12:01

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
Interior Room 001 Room 128									
018	A	Pipe	Rgt		I	Wrap	Beige	>9.9	QM
009	A	Wall	W Ctr		I	Plaster	Beige	4.2	QM
007	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
010	B	Wall	W Ctr		P	Plaster	Beige	6.8	QM
011	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
012	D	Wall	W Ctr		I	Plaster	Beige	8.3	QM
Interior Room 002 Room 127									
028	A	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
027	A	Ceiling	Ctr		I	Plaster	Beige	>9.9	QM
029	B	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
030	C	Wall	W Ctr		I	Plaster	Beige	6.4	QM
031	D	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
Interior Room 003 Rm 127 Cl									

041	A	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
042	B	Wall	W Ctr	I	Plaster	Beige	4.4	QM
043	C	Wall	W Ctr	P	Plaster	Beige	8.1	QM
044	D	Wall	W Ctr	I	Plaster	Beige	7.5	QM
045	D	Ceiling	Ctr	I	Plaster	Beige	>9.9	QM

Interior Room 004 Room 125

049	A	Wall	W Ctr	F	Plaster	Beige	5.1	QM
048	A	Ceiling	Ctr	P	Plaster	White	>9.9	QM
050	B	Wall	W Ctr	P	Plaster	Beige	5.3	QM
051	C	Wall	W Ctr	P	Plaster	Beige	5.3	QM
052	D	Wall	W Ctr	F	Plaster	Beige	6.0	QM

Interior Room 005 Room 126

068	A	Wall	W Ctr	I	Plaster	Beige	5.1	QM
067	A	Ceiling	Ctr	I	Plaster	Beige	>9.9	QM
069	B	Wall	W Ctr	I	Plaster	Beige	>9.9	QM
070	C	Wall	W Ctr	I	Plaster	Beige	6.1	QM
071	D	Wall	W Ctr	I	Plaster	Beige	>9.9	QM

Interior Room 006 Room 124

080	A	Wall	W Ctr	F	Plaster	Beige	>9.9	QM	
081	B	Wall	W Ctr	I	Plaster	Beige	>9.9	QM	
092	B	Railing	Ctr	Post	I	Metal	Black	1.0	QM
082	C	Wall	W Ctr	F	Plaster	Beige	9.1	QM	
079	D	Wall	W Ctr	F	Plaster	Beige	>9.9	QM	
077	D	Ceiling	Ctr	I	Plaster	White	>9.9	QM	
093	D	Railing	Ctr	Newel Post	I	Metal	Black	1.3	QM

Interior Room 007 Hall 107

109	A	Wall	L Ctr	P	Plaster	Beige	1.8	QM
105	A	Wall	U Ctr	F	Plaster	White	8.3	QM
104	A	Ceiling	Ctr	I	Plaster	White	>9.9	QM
110	B	Wall	L Lft	F	Plaster	Beige	1.5	QM
106	B	Wall	U Ctr	F	Plaster	White	8.3	QM
107	C	Wall	U Ctr	F	Plaster	White	8.1	QM
108	D	Wall	U Ctr	F	Plaster	White	8.6	QM

Interior Room 008 Hall 105

154	A	Access Door	Ctr	F	Metal	Red	2.1	QM
126	A	Wall	L Ctr	F	Plaster	Beige	1.4	QM
125	A	Wall	U Ctr	P	Plaster	White	7.1	QM
127	B	Wall	L Ctr	F	Plaster	Beige	1.5	QM
122	B	Wall	U Ctr	P	Plaster	White	>9.9	QM
120	B	Ceiling	Ctr	I	Plaster	White	>9.9	QM
128	C	Wall	L Ctr	F	Plaster	Beige	1.3	QM
123	C	Wall	U Ctr	P	Plaster	White	8.3	QM
129	D	Wall	L Ctr	F	Plaster	Beige	1.4	QM
124	D	Wall	U Ctr	P	Plaster	White	9.0	QM

Interior Room 009 Hall 101

157	A	Crown Mldg	Ctr	I	Wood	White	>9.9	QM
156	A	Ceiling	Ctr	I	Plaster	White	>9.9	QM

Interior Room 010 Hall 109

175	A	Wall	L Ctr	I	Plaster	Beige	1.4	QM
170	A	Wall	U Ctr	I	Plaster	White	8.5	QM
169	A	Ceiling	Ctr	I	Plaster	White	>9.9	QM
176	B	Wall	L Ctr	I	Plaster	Beige	1.4	QM
171	B	Wall	U Ctr	I	Plaster	White	9.3	QM
177	C	Wall	L Ctr	I	Plaster	Beige	1.5	QM
172	C	Wall	U Ctr	I	Plaster	White	8.1	QM
174	D	Wall	L Ctr	I	Plaster	Beige	2.1	QM

173	D	Wall	U Ctr		F	Plaster	White	8.3	QM
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Interior Room 011 Hall 103

192	A	Wall	L Lft		F	Plaster	Beige	3.1	QM
185	A	Wall	U Ctr		F	Plaster	White	>9.9	QM
184	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
190	B	Wall	L Ctr		P	Plaster	Beige	2.1	QM
186	B	Wall	U Ctr		P	Plaster	White	7.3	QM
191	C	Wall	L Rgt		F	Plaster	Beige	1.3	QM
187	C	Wall	U Ctr		F	Plaster	White	8.8	QM
188	D	Wall	U Ctr		P	Plaster	White	1.3	QM

Interior Room 012 Hall 102

232	A	Phone Rm	Rgt	Wall	I	Plaster	White	9.5	QM
208	A	Wall	L Ctr		I	Plaster	Beige	1.0	QM
201	A	Wall	U Ctr		I	Plaster	White	>9.9	QM
199	A	Ceiling	Rgt		I	Plaster	White	9.4	QM
207	B	Wall	L Ctr		I	Plaster	Beige	2.3	QM
202	B	Wall	U Ctr		I	Plaster	White	7.7	QM
206	C	Wall	L Ctr		I	Plaster	Beige	1.0	QM
203	C	Wall	U Ctr		P	Plaster	White	8.4	QM
205	D	Wall	L Ctr		I	Plaster	Beige	1.2	QM
204	D	Wall	U Ctr		I	Plaster	White	8.9	QM

Interior Room 013 Hall 104

246	A	Wall	L Ctr		F	Plaster	Beige	1.0	QM
239	A	Wall	U Ctr		I	Plaster	White	>9.9	QM
238	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
245	B	Wall	L Ctr		I	Plaster	Beige	1.3	QM
240	B	Wall	U Ctr		I	Plaster	White	>9.9	QM
244	C	Wall	L Ctr		F	Plaster	Beige	1.4	QM
241	C	Wall	U Ctr		I	Plaster	White	>9.9	QM
243	D	Wall	L Ctr		F	Plaster	Beige	1.4	QM
242	D	Wall	U Ctr		I	Plaster	White	9.1	QM

Calibration Readings

----- End of Readings -----

DETAILED REPORT OF LEAD PAINT SCREENING

Screening Date: 04/27/09
 Report Date: 4/29/2009
 Abatement Level: 1.0
 Report No. S#01546 - 04/27/09 08:52
 Total Readings: 258
 Job Started: 04/27/09 08:52
 Job Finished: 04/27/09 12:01

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
Interior Room 001 Room 128									
008	A	Pic Rail	Ctr		I	Wood	Stained	-0.2	QM
018	A	Pipe	Rgt		I	Wrap	Beige	>9.9	QM
009	A	Wall	W Ctr		I	Plaster	Beige	4.2	QM
007	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
015	A	Door	Lft	Casing	I	Wood	Stained	-0.2	QM
016	A	Door	Lft	Jamb	I	Wood	Stained	-0.1	QM

017	A	Door	Lft	U Ctr	I	Wood	Stained	0.0	QM
019	B	Radiator	Rgt		F	Metal	Black	-0.2	QM
010	B	Wall	W Ctr		P	Plaster	Beige	6.8	QM
021	B	Window	Rgt	Casing	I	Wood	Stained	-0.2	QM
020	B	Window	Rgt	Sill	I	Stone	N/A	-0.2	QM
022	C	Panel Box	Lft		I	Metal	Beige	-0.2	QM
023	C	Wire Mold	Lft		I	Metal	Beige	0.2	QM
011	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
024	C	Door	Rgt	Casing	I	Wood	Stained	0.6	QM
025	C	Door	Rgt	Jamb	F	Wood	Stained	0.4	QM
026	C	Door	Rgt	U Ctr	I	Wood	Stained	-0.4	QM
012	D	Wall	W Ctr		I	Plaster	Beige	8.3	QM
013	D	Baseboard	Ctr		I	Wood	Stained	0.0	QM
014	D	Floor	Ctr		F	Vinyl	Brown	-0.2	QM

Interior Room 002 Room 127

028	A	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
027	A	Ceiling	Ctr		I	Plaster	Beige	>9.9	QM
032	A	Door	Ctr	Casing	I	Wood	Stained	0.1	QM
033	A	Door	Ctr	U Ctr	I	Wood	Stained	0.3	QM
029	B	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
030	C	Wall	W Ctr		I	Plaster	Beige	6.4	QM
034	C	Door	Ctr	Casing	I	Wood	Stained	-0.1	QM
035	C	Door	Ctr	Jamb	I	Wood	Stained	0.0	QM
031	D	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
036	D	Door	Ctr	Jamb	I	Wood	Stained	-0.1	QM
037	D	Door	Ctr	Casing	I	Wood	Stained	-0.1	QM
038	D	Door	Ctr	U Ctr	I	Wood	Stained	-0.2	QM

Interior Room 003 Rm 127 Cl

041	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
042	B	Wall	W Ctr		I	Plaster	Beige	4.4	QM
040	B	Door	Ctr	Casing	I	Wood	Stained	0.8	QM
039	B	Door	Ctr	U Ctr	I	Wood	Stained	0.2	QM
043	C	Wall	W Ctr		P	Plaster	Beige	8.1	QM
046	D	Shelf	Ctr		I	Wood	Stained	0.2	QM
047	D	Shelf Support	Ctr		I	Wood	Stained	0.4	QM
044	D	Wall	W Ctr		I	Plaster	Beige	7.5	QM
045	D	Ceiling	Ctr		I	Plaster	Beige	>9.9	QM

Interior Room 004 Room 125

049	A	Wall	W Ctr		F	Plaster	Beige	5.1	QM
048	A	Ceiling	Ctr		P	Plaster	White	>9.9	QM
055	A	Door	Lft	Casing	I	Wood	Stained	-0.1	QM
056	A	Door	Lft	Jamb	I	Wood	Stained	-0.1	QM
057	A	Door	Rgt	Jamb	I	Wood	Stained	-0.3	QM
058	A	Door	Rgt	Casing	I	Wood	Stained	-0.2	QM
059	A	Door	Rgt	U Ctr	I	Wood	Stained	-0.2	QM
050	B	Wall	W Ctr		P	Plaster	Beige	5.3	QM
060	B	Window	Ctr	Casing	I	Wood	Stained	0.2	QM
051	C	Wall	W Ctr		P	Plaster	Beige	5.3	QM
061	C	Window	Ctr	Casing	I	Wood	Stained	-0.2	QM
076	D	Pic Rail	Ctr		I	Wood	Stained	-0.1	QM
052	D	Wall	W Ctr		F	Plaster	Beige	6.0	QM
053	D	Baseboard	Ctr		I	Wood	Stained	-0.4	QM
054	D	Floor	Ctr		I	Vinyl	Brown	0.6	QM
062	D	Door	Ctr	Casing	I	Wood	Stained	-0.2	QM
064	D	Door	Ctr	Jamb	I	Wood	Stained	-0.1	QM
063	D	Door	Ctr	U Ctr	I	Wood	Stained	-0.2	QM

Interior Room 005 Room 126

068	A	Wall	W Ctr		I	Plaster	Beige	5.1	QM
067	A	Ceiling	Ctr		I	Plaster	Beige	>9.9	QM

069	B	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
074	C	Shelf	Rgt		F	Wood	White	0.1	QM
075	C	Shelf Support	Rgt		I	Wood	White	-0.1	QM
070	C	Wall	W Ctr		I	Plaster	Beige	6.1	QM
065	C	Door	Ctr	Casing	I	Wood	Stained	-0.3	QM
066	C	Door	Ctr	U Ctr	I	Wood	Stained	0.0	QM
071	D	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
072	D	Baseboard	Ctr		I	Wood	Stained	-0.2	QM
073	D	Floor	Ctr		I	Vinyl	N/A	0.0	QM

Interior Room 006 Room 124

103	A	Bench	Lft		I	Wood	Stained	-0.2	QM
080	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
099	A	Door	Ctr	Jamb	I	Wood	Stained	-0.1	QM
100	A	Door	Ctr	Casing	I	Wood	Stained	-0.2	QM
101	A	Door	Ctr	U Rgt	I	Wood	Stained	-0.3	QM
102	A	Door	Ctr	U Lft	I	Wood	Stained	-0.6	QM
081	B	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
094	B	Door	Ctr	Casing	I	Wood	Stained	-0.1	QM
095	B	Door	Ctr	U Ctr	I	Wood	Stained	-0.2	QM
092	B	Railing	Ctr	Post	I	Metal	Black	1.0	QM
085	C	Radiator	Lft		F	Metal	Black	-0.1	QM
086	C	Radiator	Lft		F	Metal	Black	0.5	QM
091	C	Step	Lft		F	Wood	Stained	0.1	QM
090	C	Desk	Ctr		I	Wood	Stained	0.0	QM
087	C	Radiator	Rgt		F	Metal	Black	0.7	QM
082	C	Wall	W Ctr		F	Plaster	Beige	9.1	QM
083	C	Baseboard	Ctr		I	Wood	Stained	0.1	QM
084	C	Floor	Ctr		I	Vinyl	Brown	-0.1	QM
089	C	Window	Lft	Casing	I	Wood	Stained	0.0	QM
088	C	Window	Rgt	Casing	I	Wood	Stained	0.0	QM
078	D	Pic Rail	Ctr		I	Wood	Stained	-0.3	QM
079	D	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
077	D	Ceiling	Ctr		I	Plaster	White	>9.9	QM
097	D	Door	Ctr	Casing	I	Wood	Stained	0.0	QM
098	D	Door	Ctr	Jamb	I	Wood	Stained	-0.2	QM
096	D	Door	Ctr	U Ctr	I	Wood	Stained	-0.1	QM
093	D	Railing	Ctr	Newel Post	I	Metal	Black	1.3	QM

Interior Room 007 Hall 107

113	A	Radiator	Ctr		I	Metal	Black	-0.5	QM
109	A	Wall	L Ctr		P	Plaster	Beige	1.8	QM
105	A	Wall	U Ctr		F	Plaster	White	8.3	QM
104	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
110	B	Wall	L Lft		F	Plaster	Beige	1.5	QM
106	B	Wall	U Ctr		F	Plaster	White	8.3	QM
115	B	Door	Ctr	Casing	F	Wood	Stained	-0.3	QM
116	B	Door	Ctr	Jamb	F	Wood	Stained	-0.4	QM
114	B	Door	Ctr	U Ctr	F	Wood	White	-0.3	QM
111	C	Wall	L Ctr		P	Plaster	Beige	0.5	QM
107	C	Wall	U Ctr		F	Plaster	White	8.1	QM
117	C	Door	Ctr	Jamb	F	Wood	Stained	0.0	QM
118	C	Door	Ctr	Casing	F	Wood	Stained	-0.2	QM
119	C	Door	Ctr	U Ctr	F	Wood	Stained	-0.2	QM
112	D	Wall	L Lft		P	Plaster	Beige	0.8	QM
108	D	Wall	U Ctr		F	Plaster	White	8.6	QM

Interior Room 008 Hall 105

154	A	Access Door	Ctr		F	Metal	Red	2.1	QM
155	A	Access Door	Ctr		F	Metal	Beige	-0.3	QM
126	A	Wall	L Ctr		F	Plaster	Beige	1.4	QM
125	A	Wall	U Ctr		P	Plaster	White	7.1	QM
133	A	Door	Lft	Casing	I	Wood	Stained	0.1	QM

134	A	Door	Lft	Jamb	I	Wood	Stained	-0.4	QM
135	A	Door	Lft	U Ctr	I	Wood	Stained	-0.1	QM
137	A	Door	Ctr	Casing	I	Wood	Stained	-0.1	QM
138	A	Door	Ctr	Jamb	I	Wood	Stained	0.0	QM
136	A	Door	Ctr	U Ctr	I	Wood	Stained	-0.1	QM
139	A	Door	Rgt	Jamb	I	Wood	Stained	0.1	QM
140	A	Door	Rgt	Casing	I	Wood	Stained	-0.1	QM
141	A	Door	Rgt	U Ctr	I	Wood	Stained	0.1	QM
121	B	Pic Rail	Ctr		I	Wood	Stained	-0.1	QM
127	B	Wall	L Ctr		F	Plaster	Beige	1.5	QM
122	B	Wall	U Ctr		P	Plaster	White	>9.9	QM
120	B	Ceiling	Ctr		I	Plaster	White	>9.9	QM
143	B	Door	Ctr	Casing	I	Wood	Stained	0.0	QM
142	B	Door	Ctr	U Ctr	I	Wood	Stained	0.1	QM
128	C	Wall	L Ctr		F	Plaster	Beige	1.3	QM
123	C	Wall	U Ctr		P	Plaster	White	8.3	QM
144	C	Door	Lft	Casing	I	Wood	Stained	0.1	QM
145	C	Door	Lft	U Ctr	I	Wood	Stained	0.1	QM
147	C	Door	Ctr	Casing	I	Wood	Stained	0.1	QM
Courtroom									
148	C	Door	Ctr	Casing	I	Wood	Stained	-0.2	QM
149	C	Door	Ctr	Jamb	I	Wood	Stained	-0.2	QM
146	C	Door	Ctr	U Ctr	I	Wood	Stained	-0.1	QM
Courtroom									
150	C	Door	Ctr	U Ctr	I	Wood	Stained	-0.2	QM
152	C	Door	Rgt	Casing	I	Wood	Stained	-0.3	QM
Craft shop									
153	C	Door	Rgt	Jamb	I	Wood	Stained	0.0	QM
Craft shop									
151	C	Door	Rgt	U Ctr	I	Wood	Stained	0.0	QM
Craft shop									
129	D	Wall	L Ctr		F	Plaster	Beige	1.4	QM
124	D	Wall	U Ctr		P	Plaster	White	9.0	QM
130	D	Baseboard	Ctr		I	Wood	Stained	0.0	QM
131	D	Floor	Ctr		I	Vinyl	Brown	-0.2	QM
132	D	Floor	Ctr		I	Vinyl	Black	-0.1	QM

Interior Room 009 Hall 101

157	A	Crown Mldg	Ctr		I	Wood	White	>9.9	QM
161	A	Bulletin Bd	Rgt	Frame	I	Wood	Stained	-0.1	QM
156	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
158	A	Door	Ctr	Casing	I	Wood	Stained	-0.2	QM
159	A	Door	Ctr	Jamb	I	Wood	Stained	0.1	QM
160	A	Door	Ctr	U Ctr	I	Wood	Stained	0.0	QM
165	B	Radiator	Lft		I	Metal	Black	0.1	QM
162	C	Door	Ctr	Casing	I	Wood	Stained	-0.1	QM
163	C	Door	Ctr	U Ctr	I	Wood	Stained	-0.1	QM
164	D	Radiator	Lft		I	Metal	Black	0.2	QM
166	D	Door	Rgt	Casing	I	Wood	Stained	-0.6	QM
167	D	Door	Rgt	Jamb	I	Wood	Stained	0.0	QM
168	D	Door	Rgt	U Ctr	I	Wood	Stained	-0.1	QM

Interior Room 010 Hall 109

175	A	Wall	L Ctr		I	Plaster	Beige	1.4	QM
170	A	Wall	U Ctr		I	Plaster	White	8.5	QM
169	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
179	A	Door	Ctr	Casing	I	Wood	Stained	-0.2	QM
180	A	Door	Ctr	Jamb	I	Wood	Stained	0.0	QM
178	A	Door	Ctr	U Ctr	I	Wood	White	-0.2	QM
176	B	Wall	L Ctr		I	Plaster	Beige	1.4	QM
171	B	Wall	U Ctr		I	Plaster	White	9.3	QM
177	C	Wall	L Ctr		I	Plaster	Beige	1.5	QM
172	C	Wall	U Ctr		I	Plaster	White	8.1	QM

181	C	Door		Ctr	Jamb	I	Wood	Stained	-0.2	QM
182	C	Door		Ctr	Casing	I	Wood	Stained	-0.1	QM
183	C	Door		Ctr	U Ctr	I	Wood	Stained	-0.1	QM
174	D	Wall		L Ctr		I	Plaster	Beige	2.1	QM
173	D	Wall		U Ctr		F	Plaster	White	8.3	QM

Interior Room 011 Hall 103

192	A	Wall		L Lft		F	Plaster	Beige	3.1	QM
185	A	Wall		U Ctr		F	Plaster	White	>9.9	QM
184	A	Ceiling		Ctr		I	Plaster	White	>9.9	QM
193	A	Door		Ctr	Casing	I	Wood	Stained	0.0	QM
194	A	Door		Ctr	Jamb	I	Wood	Stained	0.0	QM
195	A	Door		Ctr	U Ctr	I	Wood	Stained	-0.4	QM
190	B	Wall		L Ctr		P	Plaster	Beige	2.1	QM
186	B	Wall		U Ctr		P	Plaster	White	7.3	QM
191	C	Wall		L Rgt		F	Plaster	Beige	1.3	QM
187	C	Wall		U Ctr		F	Plaster	White	8.8	QM
196	C	Door		Ctr	Casing	I	Wood	Stained	-0.3	QM
197	C	Door		Ctr	Jamb	I	Wood	Stained	0.0	QM
198	C	Door		Ctr	U Ctr	F	Wood	White	-0.3	QM
189	D	Wall		L Ctr		P	Plaster	Beige	0.7	QM
188	D	Wall		U Ctr		P	Plaster	White	1.3	QM

Interior Room 012 Hall 102

210	A	Radiator		Lft		I	Metal	Black	-0.3	QM
229	A	Access Door		Lft		F	Metal	Beige	-0.1	QM
230	A	Access Door		Lft		P	Metal	Beige	-0.2	QM
200	A	Pic Rail		Rgt		I	Wood	Stained	-0.4	QM
231	A	Access Door		Rgt		I	Metal	Red	0.2	QM
232	A	Phone Rm		Rgt	Wall	I	Plaster	White	9.5	QM
233	A	Phone Rm		Rgt	Shelf	I	Wood	Stained	-0.1	QM
234	A	Phone Rm		Rgt	Ceiling	I	Plaster	White	-0.3	QM
208	A	Wall		L Ctr		I	Plaster	Beige	1.0	QM
201	A	Wall		U Ctr		I	Plaster	White	>9.9	QM
209	A	Baseboard		Ctr		I	Wood	Stained	-0.2	QM
199	A	Ceiling		Rgt		I	Plaster	White	9.4	QM
211	A	Door		Lft	Casing	I	Wood	Stained	-0.2	QM
212	A	Door		Lft	Jamb	I	Wood	Stained	-0.5	QM
213	A	Door		Lft	U Ctr	I	Wood	Stained	-0.6	QM
215	A	Door		Ctr	Casing	I	Wood	Stained	0.2	QM
216	A	Door		Ctr	Jamb	I	Wood	Stained	-0.2	QM
214	A	Door		Ctr	U Ctr	I	Wood	Stained	-0.1	QM
217	A	Door		Rgt	Jamb	I	Wood	Stained	-0.3	QM
218	A	Door		Rgt	Casing	I	Wood	Stained	-0.3	QM
219	A	Door		Rgt	U Ctr	I	Wood	Stained	-0.4	QM
236	A	Closet		Rgt	Wall	I	Plaster	Beige	-0.1	QM
237	A	Closet		Rgt	Shelf	I	Wood	Stained	0.1	QM
235	A	Closet		Rgt	Ceiling	I	Plaster	Beige	-0.3	QM
207	B	Wall		L Ctr		I	Plaster	Beige	2.3	QM
202	B	Wall		U Ctr		I	Plaster	White	7.7	QM
206	C	Wall		L Ctr		I	Plaster	Beige	1.0	QM
203	C	Wall		U Ctr		P	Plaster	White	8.4	QM
221	C	Door		Lft	Casing	I	Wood	Stained	-0.3	QM
222	C	Door		Lft	Jamb	I	Wood	Stained	-0.8	QM
220	C	Door		Lft	U Ctr	I	Wood	Stained	-0.7	QM
223	C	Door		Ctr	Jamb	I	Wood	Stained	-0.3	QM
224	C	Door		Ctr	Casing	I	Wood	Stained	-0.1	QM
225	C	Door		Ctr	U Ctr	I	Wood	Stained	-0.2	QM
227	C	Door		Rgt	Casing	I	Wood	Stained	0.0	QM
228	C	Door		Rgt	Jamb	I	Wood	Stained	0.2	QM
226	C	Door		Rgt	U Ctr	I	Wood	Stained	0.1	QM
205	D	Wall		L Ctr		I	Plaster	Beige	1.2	QM
204	D	Wall		U Ctr		I	Plaster	White	8.9	QM

Interior Room 013 Hall 104

246	A	Wall	L Ctr		F	Plaster	Beige	1.0	QM
239	A	Wall	U Ctr		I	Plaster	White	>9.9	QM
238	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
245	B	Wall	L Ctr		I	Plaster	Beige	1.3	QM
240	B	Wall	U Ctr		I	Plaster	White	>9.9	QM
247	B	Door	Ctr	Casing	I	Wood	Stained	0.1	QM
248	B	Door	Ctr	Jamb	I	Wood	Stained	0.2	QM
249	B	Door	Ctr	U Ctr	I	Wood	Stained	0.1	QM
244	C	Wall	L Ctr		F	Plaster	Beige	1.4	QM
241	C	Wall	U Ctr		I	Plaster	White	>9.9	QM
243	D	Wall	L Ctr		F	Plaster	Beige	1.4	QM
242	D	Wall	U Ctr		I	Plaster	White	9.1	QM
251	D	Door	Ctr	Casing	I	Wood	Stained	-0.1	QM
252	D	Door	Ctr	Jamb	I	Wood	Stained	0.0	QM
250	D	Door	Ctr	U Ctr	I	Wood	White	0.0	QM

Calibration Readings

001								0.0	TC
002								0.0	TC
003								0.0	TC
004								1.0	TC
005								1.0	TC
006								1.1	TC
253								0.1	TC
254								0.0	TC
255								0.0	TC
256								1.0	TC
257								1.0	TC
258								1.0	TC

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT SCREENING
Independence Missouri Courthouse
4-27-09 Afternoon

Screening Date: 04/27/09
 Report Date: 4/29/2009
 Abatement Level: 1.0
 Report No.: S#01696 - 04/27/09 12:26
 Total Readings: 206
 Job Started: 04/27/09 12:26
 Job Finished: 04/27/09 15:07

Read No.	Room No.	Room Name	Wall Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
1		CALIBRATION							1.0	TC
2		CALIBRATION							1.0	TC
3		CALIBRATION							1.1	TC
4		CALIBRATION							0.0	TC
5		CALIBRATION							0.0	TC
6		CALIBRATION							0.0	TC
<u>7</u>	<u>001</u>	<u>Room 115</u>	<u>A Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>5.3</u>	<u>QM</u>
<u>8</u>	<u>001</u>	<u>Room 115</u>	<u>B Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>5.3</u>	<u>QM</u>
<u>9</u>	<u>001</u>	<u>Room 115</u>	<u>C Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>5.8</u>	<u>QM</u>
<u>10</u>	<u>001</u>	<u>Room 115</u>	<u>D Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Beige</u>	<u>6.1</u>	<u>QM</u>
11	001	Room 115	C Window	Lft	Casing	I Wood		White	-0.1	QM
12	001	Room 115	C Window	Lft	Casing	I Wood		White	-0.1	QM
13	001	Room 115	C Window	Ctr	Casing	I Wood		White	-0.1	QM
14	001	Room 115	C Window	Ctr	Casing	I Wood		White	-0.2	QM
15	001	Room 115	C Window	Rgt	Casing	I Wood		White	0.2	QM
16	001	Room 115	C Window	Rgt	Casing	I Wood		White	0.1	QM
17	001	Room 115	D Window	Ctr	Casing	I Wood		White	-0.2	QM
<u>18</u>	<u>001</u>	<u>Room 115</u>	<u>D Ceiling</u>		<u>Ctr</u>	<u>F Plaster</u>		<u>White</u>	<u>>9.9</u>	<u>QM</u>
19	001	Room 115	A Door	Lft	Casing	I Wood		Stained	-0.1	QM
20	001	Room 115	A Door	Lft	U Ctr	I Wood		Stained	-0.4	QM
21	001	Room 115	A Door	Rgt	U Ctr	I Wood		Stained	0.0	QM
22	001	Room 115	A Door	Rgt	Casing	I Wood		Stained	0.1	QM
<u>23</u>	<u>002</u>	<u>Room 114</u>	<u>A Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Green</u>	<u>3.4</u>	<u>QM</u>
<u>24</u>	<u>002</u>	<u>Room 114</u>	<u>B Wall</u>		<u>W Ctr</u>	<u>I Drywall</u>		<u>Green</u>	<u>4.1</u>	<u>QM</u>
<u>25</u>	<u>002</u>	<u>Room 114</u>	<u>C Wall</u>		<u>W Ctr</u>	<u>I Drywall</u>		<u>Green</u>	<u>3.2</u>	<u>QM</u>
<u>26</u>	<u>002</u>	<u>Room 114</u>	<u>D Wall</u>		<u>W Ctr</u>	<u>I Plaster</u>		<u>Green</u>	<u>3.5</u>	<u>QM</u>
27	002	Room 114	D Window	Ctr	Casing	I Wood		White	-0.1	QM
28	002	Room 114	A Door	Rgt	Casing	I Wood		Stained	-0.1	QM
29	002	Room 114	A Door	Rgt	U Ctr	I Wood		Stained	-0.2	QM
<u>30</u>	<u>002</u>	<u>Room 114</u>	<u>A Pipe</u>		<u>Lft</u>	<u>I Wrap</u>		<u>Green</u>	<u>>9.9</u>	<u>QM</u>
31	002	Room 114	D Register	Ctr		I Metal		Black	0.0	QM
32	001	Room 115	C Register	Lft		I Metal		Silver	0.0	QM
33	001	Room 115	C Register	Ctr		I Metal		Silver	0.1	QM
34	001	Room 115	C Register	Rgt		I Metal		Silver	-0.1	QM
35	003	Vault 17/16	A Wall		W Ctr	I Plaster		Lt Green	0.3	QM
36	003	Vault 17/16	B Wall		W Ctr	I Plaster		Lt Green	-0.1	QM
37	003	Vault 17/16	C Wall		W Ctr	I Plaster		Lt Green	-0.1	QM
38	003	Vault 17/16	D Wall		W Ctr	I Plaster		Lt Green	0.4	QM
39	003	Vault 17/16	A Wall		W Lft	I Plaster		Lt Green	-0.1	QM
40	003	Vault 17/16	D Ceiling		Ctr	I Plaster		Lt Green	-0.1	QM
<u>41</u>	<u>003</u>	<u>Vault 17/16</u>	<u>D Door</u>		<u>Ctr</u>	<u>I Metal</u>		<u>Dk Green</u>	<u>3.5</u>	<u>QM</u>
<u>42</u>	<u>004</u>	<u>Room 145</u>	<u>A Wall</u>		<u>W Ctr</u>	<u>P Plaster</u>		<u>Beige</u>	<u>5.2</u>	<u>QM</u>
43	004	Room 145	B Wall		W Ctr	I Drywall		Beige	-0.1	QM
44	004	Room 145	C Wall		W Ctr	I Drywall		Beige	-0.4	QM
<u>45</u>	<u>004</u>	<u>Room 145</u>	<u>D Wall</u>		<u>W Ctr</u>	<u>P Plaster</u>		<u>Beige</u>	<u>>9.9</u>	<u>QM</u>

46	004	Room 145	D	Pipe	Rgt	F	Wrap	Beige	1.6	QM
47	004	Room 145	A	Window	Ctr Casing	I	Wood	White	-0.2	QM
48	004	Room 145	B	Window	Ctr Casing	I	Wood	Stained	-0.4	QM
49	004	Room 145	B	Window	Rgt Casing	I	Wood	Stained	-0.2	QM
50	004	Room 145	B	Door	Rgt Casing	I	Metal	Brown	-0.1	QM
51	004	Room 145	B	Door	Rgt U Ctr	I	Wood	Stained	-0.1	QM
52	004	Room 145	C	Door	Lft U Ctr	I	Wood	Stained	0.1	QM
53	004	Room 145	C	Door	Lft Casing	I	Metal	Brown	0.0	QM
54	004	Room 145	C	Window	Ctr Casing	I	Wood	Stained	-0.2	QM
55	004	Room 145	C	Window	Rgt Casing	I	Wood	Stained	-0.1	QM
56	004	Room 145	D	Window	Ctr Casing	I	Wood	White	-0.1	QM
57	005	Room 146	D	Window	Ctr Casing	I	Wood	White	-0.1	QM
58	005	Room 146	D	Pipe	Rgt	F	Wrap	Beige	>9.9	QM
59	005	Room 146	D	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
60	005	Room 146	C	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
61	005	Room 146	B	Wall	W Ctr	F	Drywall	Beige	-0.1	QM
62	005	Room 146	A	Wall	W Ctr	F	Drywall	Beige	-0.1	QM
63	005	Room 146	A	Window	Lft Casing	I	Wood	Stained	0.0	QM
64	005	Room 146	A	Window	Ctr Casing	I	Wood	Stained	0.1	QM
65	005	Room 146	B	Window	Lft Casing	I	Wood	Stained	0.1	QM
66	005	Room 146	B	Window	Rgt Casing	I	Wood	Stained	-0.1	QM
67	005	Room 146	A	Door	Lft U Ctr	I	Wood	Stained	-0.2	QM
68	005	Room 146	A	Door	Lft Casing	I	Metal	Brown	0.0	QM
69	006	Room 144	A	Ceiling	Ctr	I	Plaster	White	>9.9	QM
70	006	Room 144	A	Pic Rail	Ctr	I	Wood	Beige	6.0	QM
71	006	Room 144	A	Wall	W Ctr	P	Plaster	Beige	>9.9	QM
72	006	Room 144	B	Wall	W Ctr	F	Plaster	Beige	9.3	QM
73	006	Room 144	C	Wall	W Ctr	I	Plaster	Beige	>9.9	QM
74	006	Room 144	D	Wall	W Ctr	I	Drywall	Beige	-0.1	QM
75	006	Room 144	A	Baseboard	Lft	I	Wood	Stained	-0.2	QM
76	006	Room 144	A	Window	Lft Casing	I	Wood	White	-0.3	QM
77	006	Room 144	A	Window	Ctr Casing	I	Wood	White	-0.4	QM
78	006	Room 144	A	Window	Rgt Casing	I	Wood	White	-0.2	QM
79	006	Room 144	A	Pipe	Ctr	I	Wrap	Beige	5.9	QM
80	006	Room 144	A	Radiator	Lft	I	Metal	Black	-0.2	QM
81	006	Room 144	A	Radiator	Rgt	I	Metal	Black	0.2	QM
82	006	Room 144	B	Door	Lft Casing	I	Wood	Stained	0.2	QM
83	006	Room 144	C	Door	Rgt Casing	I	Wood	Stained	-0.1	QM
84	006	Room 144	C	Door	Rgt Jamb	I	Wood	Stained	0.3	QM
85	006	Room 144	C	Door	Rgt U Rgt	I	Wood	Stained	-0.2	QM
86	006	Room 144	D	Window	Lft Casing	I	Wood	Stained	0.0	QM
87	006	Room 144	D	Window	Ctr Casing	I	Wood	Stained	-0.2	QM
88	006	Room 144	D	Window	Ctr Casing	I	Wood	Stained	-0.3	QM
89	006	Room 144	D	Window	Rgt Casing	I	Wood	Stained	-0.2	QM
90	007	Vault 143	A	Wall	W Ctr	I	Plaster	Beige	5.1	QM
91	007	Vault 143	B	Wall	W Ctr	I	Plaster	Beige	5.2	QM
92	007	Vault 143	C	Wall	W Ctr	I	Plaster	Beige	5.8	QM
93	007	Vault 143	D	Wall	W Ctr	I	Plaster	Beige	6.0	QM
94	007	Vault 143	A	Door	Lft Threshold	I	Metal	Dk Green	6.4	QM
95	007	Vault 143	A	Door	Lft U Ctr	I	Metal	Dk Green	9.1	QM
96	007	Vault 143	A	Door	Lft Jamb	I	Metal	Dk Green	>9.9	QM
97	008	Room 139	D	Door	Ctr Jamb	I	Wood	Stained	-0.2	QM
98	008	Room 139	C	Door	Rgt Casing	I	Wood	Stained	-0.1	QM
99	008	Room 139	A	Window	Rgt Casing	I	Wood	White	-0.1	QM
100	008	Room 139	A	Radiator	Ctr	I	Metal	Black	-0.2	QM
101	008	Room 139	A	Baseboard	Ctr	I	Wood	Stained	0.2	QM
102	008	Room 139	A	Ceiling	Ctr	I	Plaster	White	>9.9	QM
103	008	Room 139	A	Pic Rail	Ctr	I	Wood	Beige	5.2	QM
104	008	Room 139	A	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
105	008	Room 139	B	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
106	008	Room 139	C	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
107	008	Room 139	D	Wall	W Ctr	F	Plaster	Beige	>9.9	QM
108	009	Room 140	A	Wall	W Ctr	I	Plaster	Beige	>9.9	QM

109	009	Room	140	B	Wall	W Ctr	I Plaster	Beige	5.7	QM
110	009	Room	140	C	Wall	W Ctr	I Plaster	Beige	>9.9	QM
111	009	Room	140	D	Wall	W Ctr	I Plaster	Beige	>9.9	QM
112	009	Room	140	D	Pic Rail	Ctr	I Wood	Beige	6.1	QM
113	009	Room	140	D	Ceiling	Ctr	I Plaster	White	>9.9	QM
114	009	Room	140	A	Baseboard	Rgt	I Wood	Stained	-0.2	QM
115	009	Room	140	A	Door	Ctr Casing	I Wood	Stained	0.0	QM
116	009	Room	140	B	Door	Ctr U Ctr	I Wood	Stained	0.0	QM
117	009	Room	140	D	Door	Rgt Jamb	I Wood	Stained	0.0	QM
118	009	Room	140	D	Closet	Rgt Shelf	I Wood	Stained	-0.2	QM
119	009	Room	140	D	Closet	Rgt Shelf Sup	I Wood	Beige	-0.3	QM
120	009	Room	140	D	Closet	Rgt Wall	I Plaster	Beige	3.2	QM
121	009	Room	140	D	Closet	Rgt Ceiling	I Plaster	Beige	5.2	QM
122	010	Room	142	A	Ceiling	Ctr	I Plaster	White	>9.9	QM
123	010	Room	142	A	Pic Rail	Ctr	I Wood	Beige	6.4	QM
124	010	Room	142	A	Wall	W Ctr	F Plaster	Beige	>9.9	QM
125	010	Room	142	B	Wall	W Ctr	I Plaster	Beige	5.2	QM
126	010	Room	142	C	Wall	W Ctr	I Plaster	Beige	6.1	QM
127	010	Room	142	D	Wall	W Ctr	I Plaster	Beige	5.8	QM
128	010	Room	142	D	Baseboard	Ctr	I Wood	Stained	-0.2	QM
129	010	Room	142	D	Door	Ctr Casing	I Wood	Stained	-0.4	QM
130	010	Room	142	B	Door	Ctr U Ctr	I Wood	Stained	-0.1	QM
131	010	Room	142	C	Door	Lft U Ctr	I Metal	Dk Green	>9.9	QM
132	010	Room	142	A	Radiator	Rgt	I Metal	Black	0.1	QM
133	010	Room	142	A	Window	Rgt Casing	I Wood	White	-0.2	QM
134	010	Room	142	A	Pipe	Ctr	F Wrap	Beige	7.2	QM
135	011	Room	129	B	Pipe	Rgt	F Wrap	Beige	>9.9	QM
136	011	Room	129	B	Window	Ctr Casing	I Wood	White	0.1	QM
137	011	Room	129	B	Radiator	Ctr	I Metal	Black	-0.3	QM
138	011	Room	129	C	Door	Rgt L Ctr	I Wood	Stained	0.1	QM
139	011	Room	129	A	Wall	W Ctr	F Plaster	Beige	6.8	QM
140	011	Room	129	B	Wall	W Ctr	P Plaster	Beige	7.1	QM
141	011	Room	129	C	Wall	W Ctr	F Plaster	Beige	7.1	QM
142	011	Room	129	D	Wall	W Ctr	F Plaster	Beige	7.6	QM
143	011	Room	129	A	Baseboard	Ctr	F Wood	Stained	0.0	QM
144	011	Room	129	A	Floor	Ctr	P Vinyl	Brown	-0.2	QM
145	012	Room	130	C	Ceiling	Ctr	F Plaster	White	>9.9	QM
146	012	Room	130	C	Pic Rail	Ctr	I Wood	Beige	6.2	QM
147	012	Room	130	C	Wall	W Ctr	I Plaster	Beige	4.9	QM
148	012	Room	130	D	Wall	W Ctr	I Plaster	Beige	6.0	QM
149	012	Room	130	B	Wall	W Ctr	I Plaster	Beige	5.1	QM
150	012	Room	130	A	Wall	W Ctr	I Plaster	Beige	5.2	QM
151	012	Room	130	A	Pipe	Lft	F Wrap	Beige	8.6	QM
152	012	Room	130	A	Window	Ctr Casing	I Wood	White	-0.2	QM
153	012	Room	130	A	Radiator	Ctr	F Metal	Black	-0.2	QM
154	012	Room	130	B	Door	Ctr Casing	I Wood	Stained	0.0	QM
155	012	Room	130	C	Door	Rgt U Ctr	I Wood	Stained	0.3	QM
156	012	Room	130	D	Baseboard	Lft	I Wood	Stained	0.0	QM
157	012	Room	130	D	Door	Rgt Casing	I Wood	Stained	0.2	QM
158	012	Room	130	D	Door	Ctr Casing	I Metal	Brown	3.3	QM
159	012	Room	130	D	Door	Ctr L Lft	I Metal	Brown	1.0	QM
160	013	Vault	132	B	Door	Ctr U Ctr	I Metal	Dk Green	1.0	QM
161	013	Vault	132	B	Door	Ctr Casing	I Metal	Dk Green	1.5	QM
162	013	Vault	132	A	Wall	W Ctr	I Plaster	Cream	-0.5	QM
163	013	Vault	132	B	Wall	W Ctr	I Plaster	Cream	-0.5	QM
164	013	Vault	132	C	Wall	W Ctr	I Plaster	Cream	-0.6	QM
165	013	Vault	132	D	Wall	W Ctr	I Plaster	Cream	0.1	QM
166	013	Vault	132	D	Ceiling	Ctr	I Plaster	Cream	0.2	QM
167	013	Vault	132	D	Shelf	Ctr	I Wood	Cream	0.1	QM
168	014	Room	131	C	Ceiling	Ctr	I Plaster	White	>9.9	QM
169	014	Room	131	C	Pic Rail	Ctr	I Wood	Cream	6.0	QM
170	014	Room	131	C	Wall	W Ctr	I Plaster	Cream	5.2	QM
171	014	Room	131	D	Wall	W Ctr	I Plaster	Cream	5.5	QM

172	014	Room 131	A	Wall	W	Ctr	I	Plaster	Cream	5.8	QM
173	014	Room 131	B	Wall	W	Ctr	I	Plaster	Cream	7.1	QM
174	014	Room 131	B	Window		Ctr Casing	I	Wood	White	0.0	QM
175	014	Room 131	B	Radiator		Ctr	F	Metal	Black	-0.3	QM
176	014	Room 131	B	Baseboard		Ctr	I	Wood	Stained	-0.2	QM
177	014	Room 131	B	Pipe		Lft	F	Wrap	Cream	6.1	QM
178	014	Room 131	D	Door		Lft Jamb	I	Wood	Stained	0.0	QM
179	015	Room 135	D	Door		Ctr Casing	I	Wood	Stained	0.2	QM
180	015	Room 135	B	Door		Rgt Jamb	I	Wood	Stained	0.0	QM
181	015	Room 135	B	Baseboard		Ctr	I	Wood	Stained	-0.3	QM
182	015	Room 135	B	Window		Rgt Casing	I	Wood	White	0.1	QM
183	015	Room 135	C	Pic Rail		Ctr	I	Wood	Beige	5.2	QM
184	015	Room 135	C	Ceiling		Ctr	I	Plaster	White	>9.9	QM
185	015	Room 135	C	Wall	W	Ctr	I	Plaster	Beige	4.2	QM
186	015	Room 135	D	Wall	W	Ctr	I	Plaster	Beige	4.1	QM
187	015	Room 135	A	Wall	W	Ctr	I	Plaster	Beige	4.1	QM
188	015	Room 135	B	Wall	W	Ctr	I	Plaster	Beige	4.0	QM
189	016	Room 134	A	Wall	W	Ctr	I	Plaster	Beige	5.1	QM
190	016	Room 134	B	Wall	W	Ctr	I	Plaster	Beige	5.3	QM
191	016	Room 134	C	Wall	W	Ctr	I	Plaster	Beige	5.4	QM
192	016	Room 134	D	Wall	W	Ctr	I	Plaster	Beige	5.4	QM
193	016	Room 134	C	Ceiling		Ctr	I	Plaster	White	9.2	QM
194	016	Room 134	C	Pic Rail		Ctr	I	Wood	Beige	4.3	QM
195	016	Room 134	C	Baseboard		Ctr	I	Wood	Stained	0.0	QM
196	016	Room 134	C	Door		Ctr Casing	I	Wood	Stained	0.0	QM
197	016	Room 134	B	Door		Ctr Jamb	I	Wood	Stained	0.0	QM
198	016	Room 134	A	Window		Ctr Casing	I	Wood	White	0.2	QM
199	016	Room 134	A	Radiator		Ctr	F	Metal	Black	0.0	QM
200	016	Room 134	D	Pipe		Rgt	F	Wrap	Beige	>9.9	QM
201		CALIBRATION								-0.1	TC
202		CALIBRATION								-0.1	TC
203		CALIBRATION								0.0	TC
204		CALIBRATION								1.1	TC
205		CALIBRATION								1.0	TC
206		CALIBRATION								1.0	TC

---- End of Readings ----

SUMMARY REPORT OF LEAD PAINT SCREENING

Screening Date: 04/27/09
 Report Date: 4/29/2009
 Abatement Level: 1.0
 Report No. S#01696 - 04/27/09 12:26
 Total Readings: 206 Actionable: 88
 Job Started: 04/27/09 12:26
 Job Finished: 04/27/09 15:07

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
Interior Room 001 Room 115									
007	A	Wall	W	Ctr	I	Plaster	Beige	5.3	QM
008	B	Wall	W	Ctr	I	Plaster	Beige	5.3	QM
009	C	Wall	W	Ctr	I	Plaster	Beige	5.8	QM
010	D	Wall	W	Ctr	I	Plaster	Beige	6.1	QM
018	D	Ceiling		Ctr	F	Plaster	White	>9.9	QM
Interior Room 002 Room 114									
030	A	Pipe	Lft		I	Wrap	Green	>9.9	QM
023	A	Wall	W	Ctr	I	Plaster	Green	3.4	QM

024	B	Wall	W Ctr		I	Drywall	Green	4.1	QM
025	C	Wall	W Ctr		I	Drywall	Green	3.2	QM
026	D	Wall	W Ctr		I	Plaster	Green	3.5	QM

Interior Room 003 Vault 17/16

041	D	Door	Ctr		I	Metal	Dk Green	3.5	QM
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Interior Room 004 Room 145

042	A	Wall	W Ctr		P	Plaster	Beige	5.2	QM
046	D	Pipe	Rgt		F	Wrap	Beige	1.6	QM
045	D	Wall	W Ctr		P	Plaster	Beige	>9.9	QM

Interior Room 005 Room 146

060	C	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
058	D	Pipe	Rgt		F	Wrap	Beige	>9.9	QM
059	D	Wall	W Ctr		F	Plaster	Beige	>9.9	QM

Interior Room 006 Room 144

070	A	Pic Rail	Ctr		I	Wood	Beige	6.0	QM
079	A	Pipe	Ctr		I	Wrap	Beige	5.9	QM
071	A	Wall	W Ctr		P	Plaster	Beige	>9.9	QM
069	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
072	B	Wall	W Ctr		F	Plaster	Beige	9.3	QM
073	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM

Interior Room 007 Vault 143

090	A	Wall	W Ctr		I	Plaster	Beige	5.1	QM
094	A	Door	Lft	Threshold	I	Metal	Dk Green	6.4	QM
096	A	Door	Lft	Jamb	I	Metal	Dk Green	>9.9	QM
095	A	Door	Lft	U Ctr	I	Metal	Dk Green	9.1	QM
091	B	Wall	W Ctr		I	Plaster	Beige	5.2	QM
092	C	Wall	W Ctr		I	Plaster	Beige	5.8	QM
093	D	Wall	W Ctr		I	Plaster	Beige	6.0	QM

Interior Room 008 Room 139

103	A	Pic Rail	Ctr		I	Wood	Beige	5.2	QM
104	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
102	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
105	B	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
106	C	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
107	D	Wall	W Ctr		F	Plaster	Beige	>9.9	QM

Interior Room 009 Room 140

108	A	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
109	B	Wall	W Ctr		I	Plaster	Beige	5.7	QM
110	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
112	D	Pic Rail	Ctr		I	Wood	Beige	6.1	QM
111	D	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
113	D	Ceiling	Ctr		I	Plaster	White	>9.9	QM
120	D	Closet	Rgt	Wall	I	Plaster	Beige	3.2	QM
121	D	Closet	Rgt	Ceiling	I	Plaster	Beige	5.2	QM

Interior Room 010 Room 142

123	A	Pic Rail	Ctr		I	Wood	Beige	6.4	QM
134	A	Pipe	Ctr		F	Wrap	Beige	7.2	QM
124	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
122	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
125	B	Wall	W Ctr		I	Plaster	Beige	5.2	QM
126	C	Wall	W Ctr		I	Plaster	Beige	6.1	QM
131	C	Door	Lft	U Ctr	I	Metal	Dk Green	>9.9	QM
127	D	Wall	W Ctr		I	Plaster	Beige	5.8	QM

Interior Room 011 Room 129

139	A	Wall	W Ctr	F	Plaster	Beige	6.8	QM
135	B	Pipe	Rgt	F	Wrap	Beige	>9.9	QM
140	B	Wall	W Ctr	P	Plaster	Beige	7.1	QM
141	C	Wall	W Ctr	F	Plaster	Beige	7.1	QM
142	D	Wall	W Ctr	F	Plaster	Beige	7.6	QM

Interior Room 012 Room 130

151	A	Pipe	Lft	F	Wrap	Beige	8.6	QM
150	A	Wall	W Ctr	I	Plaster	Beige	5.2	QM
149	B	Wall	W Ctr	I	Plaster	Beige	5.1	QM
146	C	Pic Rail	Ctr	I	Wood	Beige	6.2	QM
147	C	Wall	W Ctr	I	Plaster	Beige	4.9	QM
145	C	Ceiling	Ctr	F	Plaster	White	>9.9	QM
148	D	Wall	W Ctr	I	Plaster	Beige	6.0	QM
158	D	Door	Ctr	I	Metal	Brown	3.3	QM
159	D	Door	Ctr	I	Metal	Brown	1.0	QM

Interior Room 013 Vault 132

161	B	Door	Ctr	I	Metal	Dk Green	1.5	QM
160	B	Door	Ctr	I	Metal	Dk Green	1.0	QM

Interior Room 014 Room 131

172	A	Wall	W Ctr	I	Plaster	Cream	5.8	QM
177	B	Pipe	Lft	F	Wrap	Cream	6.1	QM
173	B	Wall	W Ctr	I	Plaster	Cream	7.1	QM
169	C	Pic Rail	Ctr	I	Wood	Cream	6.0	QM
170	C	Wall	W Ctr	I	Plaster	Cream	5.2	QM
168	C	Ceiling	Ctr	I	Plaster	White	>9.9	QM
171	D	Wall	W Ctr	I	Plaster	Cream	5.5	QM

Interior Room 015 Room 135

187	A	Wall	W Ctr	I	Plaster	Beige	4.1	QM
188	B	Wall	W Ctr	I	Plaster	Beige	4.0	QM
183	C	Pic Rail	Ctr	I	Wood	Beige	5.2	QM
185	C	Wall	W Ctr	I	Plaster	Beige	4.2	QM
184	C	Ceiling	Ctr	I	Plaster	White	>9.9	QM
186	D	Wall	W Ctr	I	Plaster	Beige	4.1	QM

Interior Room 016 Room 134

189	A	Wall	W Ctr	I	Plaster	Beige	5.1	QM
190	B	Wall	W Ctr	I	Plaster	Beige	5.3	QM
194	C	Pic Rail	Ctr	I	Wood	Beige	4.3	QM
191	C	Wall	W Ctr	I	Plaster	Beige	5.4	QM
193	C	Ceiling	Ctr	I	Plaster	White	9.2	QM
200	D	Pipe	Rgt	F	Wrap	Beige	>9.9	QM
192	D	Wall	W Ctr	I	Plaster	Beige	5.4	QM

Calibration Readings

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT SCREENING

Screening Date: 04/27/09
 Report Date: 4/29/2009
 Abatement Level: 1.0
 Report No. S#01696 - 04/27/09 12:26
 Total Readings: 206
 Job Started: 04/27/09 12:26
 Job Finished: 04/27/09 15:07

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
Interior Room 001 Room 115									
007	A	Wall	W Ctr		I	Plaster	Beige	5.3	QM
019	A	Door	Lft	Casing	I	Wood	Stained	-0.1	QM
020	A	Door	Lft	U Ctr	I	Wood	Stained	-0.4	QM
022	A	Door	Rgt	Casing	I	Wood	Stained	0.1	QM
021	A	Door	Rgt	U Ctr	I	Wood	Stained	0.0	QM
008	B	Wall	W Ctr		I	Plaster	Beige	5.3	QM
032	C	Register	Lft		I	Metal	Silver	0.0	QM
033	C	Register	Ctr		I	Metal	Silver	0.1	QM
034	C	Register	Rgt		I	Metal	Silver	-0.1	QM
009	C	Wall	W Ctr		I	Plaster	Beige	5.8	QM
011	C	Window	Lft	Casing	I	Wood	White	-0.1	QM
012	C	Window	Lft	Casing	I	Wood	White	-0.1	QM
013	C	Window	Ctr	Casing	I	Wood	White	-0.1	QM
014	C	Window	Ctr	Casing	I	Wood	White	-0.2	QM
015	C	Window	Rgt	Casing	I	Wood	White	0.2	QM
016	C	Window	Rgt	Casing	I	Wood	White	0.1	QM
010	D	Wall	W Ctr		I	Plaster	Beige	6.1	QM
018	D	Ceiling	Ctr		F	Plaster	White	>9.9	QM
017	D	Window	Ctr	Casing	I	Wood	White	-0.2	QM
Interior Room 002 Room 114									
030	A	Pipe	Lft		I	Wrap	Green	>9.9	QM
023	A	Wall	W Ctr		I	Plaster	Green	3.4	QM
028	A	Door	Rgt	Casing	I	Wood	Stained	-0.1	QM
029	A	Door	Rgt	U Ctr	I	Wood	Stained	-0.2	QM
024	B	Wall	W Ctr		I	Drywall	Green	4.1	QM
025	C	Wall	W Ctr		I	Drywall	Green	3.2	QM
031	D	Register	Ctr		I	Metal	Black	0.0	QM
026	D	Wall	W Ctr		I	Plaster	Green	3.5	QM
027	D	Window	Ctr	Casing	I	Wood	White	-0.1	QM
Interior Room 003 Vault 17/16									
039	A	Wall	W Lft		I	Plaster	Lt Green	-0.1	QM
035	A	Wall	W Ctr		I	Plaster	Lt Green	0.3	QM
036	B	Wall	W Ctr		I	Plaster	Lt Green	-0.1	QM
037	C	Wall	W Ctr		I	Plaster	Lt Green	-0.1	QM
038	D	Wall	W Ctr		I	Plaster	Lt Green	0.4	QM
040	D	Ceiling	Ctr		I	Plaster	Lt Green	-0.1	QM
041	D	Door	Ctr		I	Metal	Dk Green	3.5	QM
Interior Room 004 Room 145									
042	A	Wall	W Ctr		P	Plaster	Beige	5.2	QM
047	A	Window	Ctr	Casing	I	Wood	White	-0.2	QM
043	B	Wall	W Ctr		I	Drywall	Beige	-0.1	QM
048	B	Window	Ctr	Casing	I	Wood	Stained	-0.4	QM
049	B	Window	Rgt	Casing	I	Wood	Stained	-0.2	QM
050	B	Door	Rgt	Casing	I	Metal	Brown	-0.1	QM
051	B	Door	Rgt	U Ctr	I	Wood	Stained	-0.1	QM
044	C	Wall	W Ctr		I	Drywall	Beige	-0.4	QM
054	C	Window	Ctr	Casing	I	Wood	Stained	-0.2	QM
055	C	Window	Rgt	Casing	I	Wood	Stained	-0.1	QM
053	C	Door	Lft	Casing	I	Metal	Brown	0.0	QM
052	C	Door	Lft	U Ctr	I	Wood	Stained	0.1	QM
046	D	Pipe	Rgt		F	Wrap	Beige	1.6	QM
045	D	Wall	W Ctr		P	Plaster	Beige	>9.9	QM
056	D	Window	Ctr	Casing	I	Wood	White	-0.1	QM

Interior Room 005 Room 146

062	A	Wall	W Ctr		F	Drywall	Beige	-0.1	QM
063	A	Window	Lft	Casing	I	Wood	Stained	0.0	QM
064	A	Window	Ctr	Casing	I	Wood	Stained	0.1	QM
068	A	Door	Lft	Casing	I	Metal	Brown	0.0	QM
067	A	Door	Lft	U Ctr	I	Wood	Stained	-0.2	QM
061	B	Wall	W Ctr		F	Drywall	Beige	-0.1	QM
065	B	Window	Lft	Casing	I	Wood	Stained	0.1	QM
066	B	Window	Rgt	Casing	I	Wood	Stained	-0.1	QM
060	C	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
058	D	Pipe	Rgt		F	Wrap	Beige	>9.9	QM
059	D	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
057	D	Window	Ctr	Casing	I	Wood	White	-0.1	QM

Interior Room 006 Room 144

080	A	Radiator	Lft		I	Metal	Black	-0.2	QM
070	A	Pic Rail	Ctr		I	Wood	Beige	6.0	QM
079	A	Pipe	Ctr		I	Wrap	Beige	5.9	QM
081	A	Radiator	Rgt		I	Metal	Black	0.2	QM
071	A	Wall	W Ctr		P	Plaster	Beige	>9.9	QM
075	A	Baseboard	Lft		I	Wood	Stained	-0.2	QM
069	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
076	A	Window	Lft	Casing	I	Wood	White	-0.3	QM
077	A	Window	Ctr	Casing	I	Wood	White	-0.4	QM
078	A	Window	Rgt	Casing	I	Wood	White	-0.2	QM
072	B	Wall	W Ctr		F	Plaster	Beige	9.3	QM
082	B	Door	Lft	Casing	I	Wood	Stained	0.2	QM
073	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
083	C	Door	Rgt	Casing	I	Wood	Stained	-0.1	QM
084	C	Door	Rgt	Jamb	I	Wood	Stained	0.3	QM
085	C	Door	Rgt	U Rgt	I	Wood	Stained	-0.2	QM
074	D	Wall	W Ctr		I	Drywall	Beige	-0.1	QM
086	D	Window	Lft	Casing	I	Wood	Stained	0.0	QM
087	D	Window	Ctr	Casing	I	Wood	Stained	-0.2	QM
088	D	Window	Ctr	Casing	I	Wood	Stained	-0.3	QM
089	D	Window	Rgt	Casing	I	Wood	Stained	-0.2	QM

Interior Room 007 Vault 143

090	A	Wall	W Ctr		I	Plaster	Beige	5.1	QM
094	A	Door	Lft	Threshold	I	Metal	Dk Green	6.4	QM
096	A	Door	Lft	Jamb	I	Metal	Dk Green	>9.9	QM
095	A	Door	Lft	U Ctr	I	Metal	Dk Green	9.1	QM
091	B	Wall	W Ctr		I	Plaster	Beige	5.2	QM
092	C	Wall	W Ctr		I	Plaster	Beige	5.8	QM
093	D	Wall	W Ctr		I	Plaster	Beige	6.0	QM

Interior Room 008 Room 139

100	A	Radiator	Ctr		I	Metal	Black	-0.2	QM
103	A	Pic Rail	Ctr		I	Wood	Beige	5.2	QM
104	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
101	A	Baseboard	Ctr		I	Wood	Stained	0.2	QM
102	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
099	A	Window	Rgt	Casing	I	Wood	White	-0.1	QM
105	B	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
106	C	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
098	C	Door	Rgt	Casing	I	Wood	Stained	-0.1	QM
107	D	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
097	D	Door	Ctr	Jamb	I	Wood	Stained	-0.2	QM

Interior Room 009 Room 140

108	A	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
114	A	Baseboard	Rgt		I	Wood	Stained	-0.2	QM
115	A	Door	Ctr	Casing	I	Wood	Stained	0.0	QM

109	B	Wall	W Ctr		I	Plaster	Beige	5.7	QM
116	B	Door	Ctr	U Ctr	I	Wood	Stained	0.0	QM
110	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
112	D	Pic Rail	Ctr		I	Wood	Beige	6.1	QM
111	D	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
113	D	Ceiling	Ctr		I	Plaster	White	>9.9	QM
117	D	Door	Rgt	Jamb	I	Wood	Stained	0.0	QM
119	D	Closet	Rgt	Shelf Sup	I	Wood	Beige	-0.3	QM
120	D	Closet	Rgt	Wall	I	Plaster	Beige	3.2	QM
118	D	Closet	Rgt	Shelf	I	Wood	Stained	-0.2	QM
121	D	Closet	Rgt	Ceiling	I	Plaster	Beige	5.2	QM

Interior Room 010 Room 142

123	A	Pic Rail	Ctr		I	Wood	Beige	6.4	QM
134	A	Pipe	Ctr		F	Wrap	Beige	7.2	QM
132	A	Radiator	Rgt		I	Metal	Black	0.1	QM
124	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
122	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
133	A	Window	Rgt	Casing	I	Wood	White	-0.2	QM
125	B	Wall	W Ctr		I	Plaster	Beige	5.2	QM
130	B	Door	Ctr	U Ctr	I	Wood	Stained	-0.1	QM
126	C	Wall	W Ctr		I	Plaster	Beige	6.1	QM
131	C	Door	Lft	U Ctr	I	Metal	Dk Green	>9.9	QM
127	D	Wall	W Ctr		I	Plaster	Beige	5.8	QM
128	D	Baseboard	Ctr		I	Wood	Stained	-0.2	QM
129	D	Door	Ctr	Casing	I	Wood	Stained	-0.4	QM

Interior Room 011 Room 129

139	A	Wall	W Ctr		F	Plaster	Beige	6.8	QM
143	A	Baseboard	Ctr		F	Wood	Stained	0.0	QM
144	A	Floor	Ctr		P	Vinyl	Brown	-0.2	QM
137	B	Radiator	Ctr		I	Metal	Black	-0.3	QM
135	B	Pipe	Rgt		F	Wrap	Beige	>9.9	QM
140	B	Wall	W Ctr		P	Plaster	Beige	7.1	QM
136	B	Window	Ctr	Casing	I	Wood	White	0.1	QM
141	C	Wall	W Ctr		F	Plaster	Beige	7.1	QM
138	C	Door	Rgt	L Ctr	I	Wood	Stained	0.1	QM
142	D	Wall	W Ctr		F	Plaster	Beige	7.6	QM

Interior Room 012 Room 130

151	A	Pipe	Lft		F	Wrap	Beige	8.6	QM
153	A	Radiator	Ctr		F	Metal	Black	-0.2	QM
150	A	Wall	W Ctr		I	Plaster	Beige	5.2	QM
152	A	Window	Ctr	Casing	I	Wood	White	-0.2	QM
149	B	Wall	W Ctr		I	Plaster	Beige	5.1	QM
154	B	Door	Ctr	Casing	I	Wood	Stained	0.0	QM
146	C	Pic Rail	Ctr		I	Wood	Beige	6.2	QM
147	C	Wall	W Ctr		I	Plaster	Beige	4.9	QM
145	C	Ceiling	Ctr		F	Plaster	White	>9.9	QM
155	C	Door	Rgt	U Ctr	I	Wood	Stained	0.3	QM
148	D	Wall	W Ctr		I	Plaster	Beige	6.0	QM
156	D	Baseboard	Lft		I	Wood	Stained	0.0	QM
158	D	Door	Ctr	Casing	I	Metal	Brown	3.3	QM
159	D	Door	Ctr	L Lft	I	Metal	Brown	1.0	QM
157	D	Door	Rgt	Casing	I	Wood	Stained	0.2	QM

Interior Room 013 Vault 132

162	A	Wall	W Ctr		I	Plaster	Cream	-0.5	QM
163	B	Wall	W Ctr		I	Plaster	Cream	-0.5	QM
161	B	Door	Ctr	Casing	I	Metal	Dk Green	1.5	QM
160	B	Door	Ctr	U Ctr	I	Metal	Dk Green	1.0	QM
164	C	Wall	W Ctr		I	Plaster	Cream	-0.6	QM
167	D	Shelf	Ctr		I	Wood	Cream	0.1	QM

165	D	Wall	W Ctr		I	Plaster	Cream	0.1	QM
166	D	Ceiling	Ctr		I	Plaster	Cream	0.2	QM

Interior Room 014 Room 131

172	A	Wall	W Ctr		I	Plaster	Cream	5.8	QM
177	B	Pipe	Lft		F	Wrap	Cream	6.1	QM
175	B	Radiator	Ctr		F	Metal	Black	-0.3	QM
173	B	Wall	W Ctr		I	Plaster	Cream	7.1	QM
176	B	Baseboard	Ctr		I	Wood	Stained	-0.2	QM
174	B	Window	Ctr	Casing	I	Wood	White	0.0	QM
169	C	Pic Rail	Ctr		I	Wood	Cream	6.0	QM
170	C	Wall	W Ctr		I	Plaster	Cream	5.2	QM
168	C	Ceiling	Ctr		I	Plaster	White	>9.9	QM
171	D	Wall	W Ctr		I	Plaster	Cream	5.5	QM
178	D	Door	Lft	Jamb	I	Wood	Stained	0.0	QM

Interior Room 015 Room 135

187	A	Wall	W Ctr		I	Plaster	Beige	4.1	QM
188	B	Wall	W Ctr		I	Plaster	Beige	4.0	QM
181	B	Baseboard	Rgt		I	Wood	Stained	-0.3	QM
182	B	Window	Rgt	Casing	I	Wood	White	0.1	QM
180	B	Door	Rgt	Jamb	I	Wood	Stained	0.0	QM
183	C	Pic Rail	Ctr		I	Wood	Beige	5.2	QM
185	C	Wall	W Ctr		I	Plaster	Beige	4.2	QM
184	C	Ceiling	Ctr		I	Plaster	White	>9.9	QM
186	D	Wall	W Ctr		I	Plaster	Beige	4.1	QM
179	D	Door	Ctr	Casing	I	Wood	Stained	0.2	QM

Interior Room 016 Room 134

199	A	Radiator	Ctr		F	Metal	Black	0.0	QM
189	A	Wall	W Ctr		I	Plaster	Beige	5.1	QM
198	A	Window	Ctr	Casing	I	Wood	White	0.2	QM
190	B	Wall	W Ctr		I	Plaster	Beige	5.3	QM
197	B	Door	Ctr	Jamb	I	Wood	Stained	0.0	QM
194	C	Pic Rail	Ctr		I	Wood	Beige	4.3	QM
191	C	Wall	W Ctr		I	Plaster	Beige	5.4	QM
195	C	Baseboard	Ctr		I	Wood	Stained	0.0	QM
193	C	Ceiling	Ctr		I	Plaster	White	9.2	QM
196	C	Door	Ctr	Casing	I	Wood	Stained	0.0	QM
200	D	Pipe	Rgt		F	Wrap	Beige	>9.9	QM
192	D	Wall	W Ctr		I	Plaster	Beige	5.4	QM

Calibration Readings

001								1.0	TC
002								1.0	TC
003								1.1	TC
004								0.0	TC
005								0.0	TC
006								0.0	TC
201								-0.1	TC
202								-0.1	TC
203								0.0	TC
204								1.1	TC
205								1.0	TC
206								1.0	TC

----- End of Readings -----

SEQUENTIAL REPORT OF LEAD PAINT SCREENING
Independence Missouri Courthouse
4-27-09 Afternoon

Screening Date: 04/28/09
 Report Date: 5/1/2009
 Abatement Level: 1.0
 Report No. S#01546 - 04/28/09 08:31
 Total Readings: 336
 Job Started: 04/28/09 08:31
 Job Finished: 04/28/09 12:01

Read No.	Room No.	Room Name	Wall Structure	Location	Member	Paint Cond	Paint Substrate	Paint Color	Lead (mg/cm ²)	Mode
1		CALIBRATION							1.0	TC
2		CALIBRATION							1.0	TC
3		CALIBRATION							1.0	TC
4		CALIBRATION							0.1	TC
5		CALIBRATION							0.0	TC
6		CALIBRATION							-0.1	TC
7	001	Rm 121	A Wall	W Lft		I Plaster		White	>9.9	QM
8	001	Rm 121	A Coat Rail	Lft		I Wood		White	>9.9	QM
9	002	Rm 120	B Wall	W Lft		P Plaster		White	5.8	QM
10	002	Rm 120	A Wall	L Ctr		F Plaster		White	9.1	QM
11	002	Rm 120	D Vault	Rgt Door Face		I Metal		Black	3.9	QM
12	002	Rm 120	D Vault	Rgt Jamb		I Metal		Black	>9.9	QM
13	002	Rm 120	D Vault	Lft Jamb		I Metal		Black	6.4	QM
14	002	Rm 120	D Vault	Lft Door Face		I Metal		Black	>9.9	QM
15	002	Rm 120	C Radiator	Rgt		I Metal		Black	-0.7	QM
16	003	Vault 115	D Wall	W Ctr		I Plaster		White	-0.4	QM
17	003	Vault 115	B Wall	W Ctr		I Plaster		White	-0.1	QM
18	003	Vault 115	B Wall	L Rgt		I Plaster		Brown	-0.4	QM
19	004	Vault 119	A Wall	L Rgt		P Plaster		Gold	6.7	QM
20	004	Vault 119	A Wall	U Rgt		F Plaster		White	4.4	QM
21	004	Vault 119	D Storage	Rgt Door		I Metal		Black	1.0	QM
22	002	Rm 120	B Ceiling	Lft		P Plaster		White	>9.9	QM
23	005	Rm 123	A Wall	U Rgt		I Plaster		White	>9.9	QM
24	005	Rm 123	A Wall	L Rgt		I Plaster		Lt Blue	5.6	QM
25	006	Rm 122	D Wall	L Rgt		I Plaster		Beige	4.8	QM
26	006	Rm 122	D Wall	U Rgt		P Plaster		White	9.5	QM
27	006	Rm 122	D Pipe	Lft		F Wrap		White	>9.9	QM
28	007	Rm 133	C Wall	W Ctr		I Plaster		Beige	9.1	QM
29	007	Rm 133	C Baseboard	Ctr		I Wood		Stained	-0.6	QM
30	008	Rm 137	C Wall	W Ctr		I Plaster		White	>9.9	QM
31	008	Rm 137	C Coat Rail	Ctr		I Wood		White	>9.9	QM
32	008	Rm 137	A Shelf Support	Lft		I Wood		White	0.0	QM
33	009	Rm 138	C Wall	W Ctr		I Plaster		Beige	>9.9	QM
34	010	Vault 136	A Wall	W Ctr		I Plaster		Beige	1.4	QM
35	010	Vault 136	C Wall	W Ctr		I Plaster		Beige	0.8	QM
36	010	Vault 136	B Vault	Ctr Door Face		I Metal		Black	>9.9	QM
37	010	Vault 136	B Vault	Ctr Jamb		I Metal		Black	2.5	QM
38	011	Stair 108	A Wall	L Ctr		F Plaster		Beige	2.2	QM
39	011	Stair 108	A Wall	U Ctr		F Plaster		White	4.4	QM
40	011	Stair 108	A Ceiling	Ctr		F Plaster		White	4.1	QM
41	011	Stair 108	D Stairs	Ctr Stringers		I Metal		Brown	1.0	QM
42	011	Stair 108	D Stairs	Ctr Risers		I Metal		Brown	1.3	QM
43	011	Stair 108	D Railing	Ctr Newel Post		I Metal		Brown	1.0	QM
44	011	Stair 108	D Railing	Ctr Bottom Rail		I Metal		Brown	1.0	QM
45	011	Stair 108	D Railing	Ctr Top Rail		I Wood		Stained	0.2	QM

46	012	Stair	109	A	Wall	L	Ctr	I	Plaster	Beige	2.2	QM
47	012	Stair	109	A	Wall	U	Ctr	I	Plaster	White	4.7	QM
48	012	Stair	109	A	Ceiling		Ctr	I	Plaster	White	>9.9	QM
49	012	Stair	109	B	Stairs		Ctr	I	Metal	Brown	1.4	QM
50	012	Stair	109	B	Railing		Ctr	I	Metal	Brown	1.4	QM
51	013	Rm	113	A	Wall	W	Ctr	I	Plaster	Beige	4.4	QM
52	013	Rm	113	C	Pipe		Ctr	I	Metal	Beige	4.1	QM
53	014	Rm	112	A	Wall	W	Ctr	I	Plaster	Beige	4.5	QM
54	014	Rm	112	A	Ceiling		Ctr	I	Plaster	Beige	>9.9	QM
55	015	Rm	235	D	Wall	W	Ctr	P	Plaster	Beige	>9.9	QM
56	015	Rm	235	A	Door		Lft	I	Wood	Brown	0.0	QM
57	016	Rm	231	D	Wall	U	Ctr	P	Plaster	White	>9.9	QM
58	016	Rm	231	D	Wall	L	Ctr	F	Plaster	Gold	3.2	QM
59	017	Rm	232	D	Wall	L	Ctr	P	Plaster	Gold	-0.4	QM
60	017	Rm	232	D	Wall Cabinet		Ctr	P	Plaster	White	2.3	QM
61	017	Rm	232	D	Ceiling		Ctr	P	Plaster	White	6.5	QM
62	018	Rm	230	D	Wall	W	Ctr	F	Plaster	Beige	4.3	QM
63	018	Rm	230	B	Wall	W	Ctr	F	Plaster	Beige	9.2	QM
64	018	Rm	230	A	Wall	W	Ctr	F	Drywall	Beige	-0.5	QM
65	018	Rm	230	A	Floor		Ctr	I	Vinyl	Brown	-0.4	QM
66	019	234/37/39		C	Wall	L	Ctr	I	Plaster	Beige	>9.9	QM
67	019	234/37/39		C	Wall	U	Ctr	I	Plaster	White	>9.9	QM
68	019	234/37/39		D	Duct		Ctr	I	Metal	White	-0.4	QM
69	019	234/37/39		A	Door		Ctr	I	Wood	Gray	-0.3	QM
70	019	234/37/39		C	Door		Ctr	I	Wood	Tan	-0.2	QM
71	019	234/37/39		C	Door		Ctr	I	Wood	Tan	-0.4	QM
72	020	Rm	233	A	Wall	W	Ctr	F	Plaster	White	3.5	QM
73	020	Rm	233	A	Coat Rail		Ctr	F	Wood	White	-0.4	QM
74	020	Rm	233	D	Wall Cabinet		Ctr	F	Wood	White	-0.4	QM
75	020	Rm	233	D	Wall	W	Ctr	F	Plaster	White	4.1	QM
76	020	Rm	233	C	Wall	W	Ctr	F	Plaster	White	4.4	QM
77	021	Rm	238	A	Wall	W	Ctr	F	Plaster	Beige	>9.9	QM
78	021	Rm	238	A	Panel Box		Rgt	F	Metal	Beige	-0.2	QM
79	021	Rm	238	C	Wall	W	Lft	F	Plaster	Beige	>9.9	QM
80	021	Rm	238	C	Ceiling		Lft	P	Plaster	White	>9.9	QM
81	021	Rm	238	B	Vault		Ctr	F	Metal	Beige	2.2	QM
82	021	Rm	238	B	Vault		Ctr	F	Metal	Beige	1.5	QM
83	021	Rm	238	B	Vault		Ctr	F	Metal	Black	1.5	QM
84	022	Vault	239	D	Wall	W	Ctr	P	Plaster	White	>9.9	QM
85	022	Vault	239	C	Wall	W	Rgt	F	Plaster	White	9.3	QM
86	022	Vault	239	D	Vault		Lft	I	Metal	Black	2.3	QM
87	023	Rm	243	B	Wall	W	Ctr	F	Plaster	White	>9.9	QM
88	023	Rm	243	B	Pipe		Ctr	F	Wrap	White	>9.9	QM
89	024	Rm	215	B	Wall	W	Ctr	I	Plaster	White	>9.9	QM
90	025	Hall	201	A	Wall	U	Lft	I	Plaster	White	>9.9	QM
91	025	Hall	201	A	Wall	L	Lft	I	Plaster	Beige	2.6	QM
92	025	Hall	201	C	Wall	L	Ctr	I	Plaster	Beige	>9.9	QM
93	025	Hall	201	C	Wall	U	Ctr	I	Plaster	Beige	>9.9	QM
94	025	Hall	201	C	Floor		Ctr	I	Vinyl	Brown	0.4	QM
95	025	Hall	201	C	Floor		Ctr	I	Vinyl	Black	0.2	QM
96	026	Hall	203	C	Wall	L	Ctr	F	Plaster	Beige	0.8	QM
97	026	Hall	203	C	Wall	L	Rgt	F	Plaster	Beige	3.5	QM
98	026	Hall	203	C	Wall	U	Rgt	F	Plaster	White	>9.9	QM
99	026	Hall	203	A	Ceiling		Rgt	P	Plaster	White	>9.9	QM
100	027	Hall	202	B	Ceiling		Rgt	P	Plaster	White	>9.9	QM
101	027	Hall	202	B	Wall	U	Rgt	P	Plaster	White	>9.9	QM
102	027	Hall	202	B	Wall	L	Rgt	P	Plaster	White	>9.9	QM
103	028	Stair	206/7	B	Wall	L	Rgt	P	Plaster	Beige	3.4	QM
104	028	Stair	206/7	B	Wall	U	Rgt	P	Plaster	Beige	>9.9	QM
105	028	Stair	206/7	D	Ceiling		Rgt	P	Plaster	White	>9.9	QM
106	029	3rd West		D	Window		Ctr	I	Wood	Brown	-0.5	QM
107	029	3rd West		D	Window		Ctr	I	Wood	Brown	0.1	QM
108	029	3rd West		D	Window		Ctr	I	Wood	Brown	0.4	QM

109	030	Rm	229	A	Wall	W	Ctr	I	Plaster	Beige	3.8	QM
110	030	Rm	229	C	Wall	W	Ctr	I	Drywall	Beige	-0.5	QM
111	031	Rm	228	C	Wall	W	Ctr	P	Plaster	White	>9.9	QM
112	031	Rm	228	C	Ceiling		Ctr	P	Plaster	White	>9.9	QM
113	032	Rm	226	A	Wall	W	Ctr	F	Plaster	Beige	>9.9	QM
114	033	Rm	227	A	Wall	W	Ctr	P	Plaster	Cream	5.2	QM
115	033	Rm	227	C	Door		Lft	I	Wood	Stained	-0.3	QM
116	033	Rm	227	C	Door		Lft	I	Wood	Stained	-0.4	QM
117	034	Rm	225	D	Wall	W	Rgt	P	Plaster	White	>9.9	QM
118	035	Rm	224	C	Wall	W	Ctr	P	Plaster	Beige	9.3	QM
119	035	Rm	224	C	Radiator		Ctr	F	Metal	White	1.6	QM
120	035	Rm	224	A	Pipe		Rgt	F	Wrap	Beige	>9.9	QM
121	036	Rm	223	A	Wall	W	Ctr	I	Plaster	Beige	-0.3	QM
122	036	Rm	223	B	Wall	W	Ctr	I	Plaster	Beige	-0.1	QM
123	036	Rm	223	C	Wall	W	Ctr	I	Plaster	Beige	-0.5	QM
124	036	Rm	223	D	Wall	W	Ctr	I	Plaster	Beige	-0.4	QM
125	036	Rm	223	D	Access Door		Rgt	I	Wood	Beige	0.4	QM
126	037	Rm	220	A	Wall	W	Ctr	I	Plaster	Beige	-0.4	QM
127	037	Rm	220	B	Wall	W	Ctr	I	Plaster	Beige	0.5	QM
128	037	Rm	220	C	Wall	W	Ctr	I	Plaster	Beige	-0.4	QM
129	037	Rm	220	D	Wall	W	Ctr	I	Plaster	Beige	-0.3	QM
130	038	Rm	221	A	Wall	W	Ctr	I	Plaster	White	-0.5	QM
131	038	Rm	221	B	Wall	W	Ctr	I	Plaster	White	0.0	QM
132	038	Rm	221	C	Wall	W	Ctr	I	Plaster	White	-0.1	QM
133	038	Rm	221	D	Wall	W	Ctr	I	Plaster	White	-0.2	QM
134	039	Rm	219	A	Wall	W	Ctr	F	Plaster	White	-0.2	QM
135	039	Rm	219	B	Wall	W	Ctr	F	Plaster	White	-0.1	QM
136	039	Rm	219	C	Wall	W	Ctr	F	Plaster	White	-0.2	QM
137	039	Rm	219	D	Wall	W	Ctr	F	Plaster	White	0.6	QM
138	039	Rm	219	D	Access Door		Rgt	P	Metal	White	1.5	QM
139	040	Rms	251-56	A	Wall	W	Ctr	F	Plaster	White	0.0	QM
140	040	Rms	251-56	A	Wall	W	Rgt	F	Plaster	White	-0.4	QM
141	040	Rms	251-56	A	Wall	W	Lft	F	Plaster	White	-0.2	QM
142	040	Rms	251-56	D	Wall	W	Lft	F	Plaster	White	3.3	QM
143	040	Rms	251-56	C	Wall	W	Rgt	F	Plaster	White	2.3	QM
144	040	Rms	251-56	B	Wall	W	Rgt	P	Plaster	White	-0.3	QM
145	040	Rms	251-56	B	Wall	W	Lft	P	Plaster	White	-0.7	QM
146	040	Rms	251-56	A	Vault		Ctr	I	Metal	White	1.0	QM
147	040	Rms	251-56	A	Vault		Ctr	I	Metal	White	1.7	QM
148	040	Rms	251-56	A	Ceiling		Lft	I	Plaster	White	-0.4	QM
149	040	Rms	251-56	A	Ceiling		Lft	I	Plaster	White	-0.2	QM
150	041	Vault	250	A	Wall	W	Ctr	I	Plaster	Cream	-0.3	QM
151	041	Vault	250	C	Wall	W	Ctr	I	Plaster	Cream	-0.5	QM
152	041	Vault	250	D	Wall	W	Ctr	I	Plaster	Cream	-0.3	QM
153	041	Vault	250	C	Storage		Rgt	I	Wood	Cream	-0.3	QM
154	042	Rm	211	B	Wall	L	Ctr	F	Plaster	Lt Green	7.4	QM
155	042	Rm	211	B	Wall	U	Ctr	F	Plaster	White	8.0	QM
156	043	Rm	214	A	Wall	W	Ctr	F	Plaster	Cream	0.2	QM
157	043	Rm	214	B	Wall	W	Ctr	F	Plaster	Cream	0.1	QM
158	043	Rm	214	C	Wall	W	Ctr	F	Plaster	Cream	-0.3	QM
159	043	Rm	214	D	Wall	W	Ctr	F	Plaster	Cream	0.0	QM
160	040	Rms	251-56	A	Wall	U	Rgt	F	Plaster	White	>9.9	QM
161	043	Rm	214	A	Wall	U	Ctr	F	Plaster	White	>9.9	QM
162	044	Rm	249	A	Wall	U	Ctr	P	Plaster	White	>9.9	QM
163	044	Rm	249	A	Wall	L	Ctr	P	Plaster	White	-0.5	QM
164	044	Rm	249	B	Wall	L	Ctr	P	Plaster	White	-0.8	QM
165	044	Rm	249	C	Wall	U	Ctr	P	Plaster	White	>9.9	QM
166	045	Rm	248	A	Wall	U	Ctr	P	Plaster	White	9.2	QM
167	045	Rm	248	A	Wall	L	Ctr	P	Plaster	White	0.0	QM
168	045	Rm	248	C	Wall	L	Ctr	P	Plaster	White	-0.4	QM
169	045	Rm	248	C	Wall	U	Ctr	F	Plaster	White	>9.9	QM
170	046	Rm	247	D	Wall	U	Ctr	F	Plaster	White	>9.9	QM
171	046	Rm	247	B	Wall	U	Ctr	F	Plaster	White	>9.9	QM

172	046	Rm 247	B	Wall	L	Ctr	F	Plaster	White	-0.1	QM
173	047	Rm 246	A	Wall	L	Ctr	F	Plaster	White	-0.6	QM
174	047	Rm 246	B	Wall	L	Ctr	F	Plaster	White	-0.6	QM
175	047	Rm 246	C	Wall	L	Ctr	F	Plaster	White	-0.4	QM
176	047	Rm 246	D	Wall	L	Ctr	F	Plaster	White	-0.8	QM
177	047	Rm 246	D	Wall	U	Ctr	F	Plaster	White	-0.4	QM
178	047	Rm 246	A	Wall	U	Ctr	F	Plaster	White	0.4	QM
179	047	Rm 246	B	Wall	U	Ctr	F	Plaster	White	0.2	QM
180	047	Rm 246	C	Wall	U	Ctr	F	Plaster	White	-0.4	QM
181	048	Rm 245	A	Wall	U	Ctr	F	Plaster	White	-0.7	QM
182	048	Rm 245	B	Wall	U	Ctr	F	Plaster	White	-0.2	QM
183	048	Rm 245	C	Wall	U	Ctr	F	Plaster	White	-0.2	QM
184	048	Rm 245	D	Wall	U	Ctr	F	Plaster	White	-0.2	QM
185	048	Rm 245	D	Wall	L	Ctr	F	Plaster	White	-0.5	QM
186	048	Rm 245	C	Wall	L	Ctr	F	Plaster	White	0.1	QM
187	048	Rm 245	B	Wall	L	Ctr	F	Plaster	White	0.0	QM
188	048	Rm 245	A	Wall	L	Ctr	F	Plaster	White	0.0	QM
189	049	Rm 244	A	Wall	L	Ctr	F	Plaster	White	-0.2	QM
190	049	Rm 244	B	Wall	L	Ctr	F	Plaster	Beige	-0.4	QM
191	049	Rm 244	C	Wall	L	Ctr	F	Plaster	Beige	0.1	QM
192	049	Rm 244	D	Wall	L	Ctr	F	Plaster	Beige	-0.3	QM
193	049	Rm 244	A	Wall	L	Ctr	F	Plaster	Beige	-0.5	QM
194	049	Rm 244	A	Wall	U	Ctr	F	Plaster	Beige	0.4	QM
195	049	Rm 244	B	Wall	U	Ctr	F	Plaster	Beige	-0.5	QM
196	049	Rm 244	C	Wall	U	Ctr	F	Plaster	Beige	-0.2	QM
197	049	Rm 244	D	Wall	U	Ctr	F	Plaster	Beige	-0.3	QM
198	049	Rm 244	D	Pipe	Rgt		F	Wrap	Beige	-0.6	QM
199	049	Rm 244	D	Pipe	Rgt		F	Wrap	Beige	-0.3	QM
<u>199</u>	<u>050</u>	<u>Rm 241</u>	<u>B</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>9.4</u>	<u>QM</u>
<u>200</u>	<u>050</u>	<u>Rm 241</u>	<u>D</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>>9.9</u>	<u>QM</u>
<u>201</u>	<u>051</u>	<u>Rm 215/217</u>	<u>A</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>>9.9</u>	<u>QM</u>
<u>202</u>	<u>051</u>	<u>Rm 215/217</u>	<u>C</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>>9.9</u>	<u>QM</u>
<u>203</u>	<u>052</u>	<u>Rm 3rd East</u>	<u>C</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>6.3</u>	<u>QM</u>
<u>204</u>	<u>052</u>	<u>Rm 3rd East</u>	<u>A</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>9.1</u>	<u>QM</u>
<u>205</u>	<u>050</u>	<u>Rm 241</u>	<u>A</u>	<u>Ceiling</u>		<u>Ctr</u>	<u>I</u>	<u>Plaster</u>	<u>White</u>	<u>>9.9</u>	<u>QM</u>
206	050	Rm 241	A	Radiator	Rgt	Cover	F	Metal	Brown	0.7	QM
207	050	Rm 241	A	Radiator	Lft	Cover	F	Metal	Brown	1.3	QM
208	051	Rm 215/217	A	Wall	W	Ctr	I	Plaster	Beige	9.1	QM
209	051	Rm 215/217	B	Wall	W	Ctr	I	Plaster	Beige	>9.9	QM
210	051	Rm 215/217	C	Wall	W	Ctr	I	Plaster	Beige	>9.9	QM
211	051	Rm 215/217	D	Wall	W	Ctr	I	Plaster	Beige	>9.9	QM
212	051	Rm 215/217	D	Floor		Ctr	F	Vinyl	Brown	-0.3	QM
213	051	Rm 215/217	B	Floor		Ctr	F	Vinyl	Brown	-0.1	QM
214	052	Rm 3rd East	B	Window	Ctr	Sill	F	Wood	Brown	-0.5	QM
215	052	Rm 3rd East	B	Window	Ctr	Sash	F	Wood	Brown	-0.7	QM
216	052	Rm 3rd East	B	Window	Ctr	Casing	F	Wood	Brown	5.5	QM
217		CALIBRATION								0.0	QM
218		CALIBRATION								-0.4	QM
219		CALIBRATION								-0.4	QM
220		CALIBRATION								-0.3	QM
221		CALIBRATION								-0.5	QM
222		CALIBRATION								0.4	QM
223	053	Rm 210	D	Wall	W	Ctr	F	Plaster	White	-0.4	QM
224	053	Rm 210	A	Wall	W	Ctr	F	Plaster	White	-0.2	QM
225	053	Rm 210	B	Wall	W	Ctr	F	Plaster	White	0.1	QM
226	053	Rm 210	C	Wall	W	Ctr	F	Plaster	White	0.6	QM
227	054	Rm 209	B	Wall	W	Ctr	P	Plaster	Lt Green	>9.9	QM
228	054	Rm 209	B	Wall	W	Ctr	P	Plaster	White	9.1	QM
229	055	Rm 212/213	A	Wall	W	Ctr	P	Plaster	White	>9.9	QM
230	055	Rm 212/213	C	Wall	W	Ctr	P	Plaster	White	9.2	QM
231	056	Rm 01	C	Wall	L	Ctr	F	Plaster	Lt Green	3.7	QM
232	056	Rm 01	C	Wall	U	Ctr	F	Plaster	White	2.6	QM
233	056	Rm 01	D	Ceiling		Ctr	F	Plaster	White	3.4	QM
234	056	Rm 01	D	Railing	Ctr	Newel Post	F	Metal	Brown	2.8	QM

<u>235</u>	<u>056</u>	<u>Rm 01</u>	<u>D</u>	<u>Stairs</u>		<u>Ctr</u>	<u>Stringers</u>	<u>F Metal</u>	<u>Brown</u>	<u>1.4</u>	<u>QM</u>
236	057	Rm 03	C	Wall	L	Ctr		F Plaster	Lt Green	-0.2	QM
237	057	Rm 03	C	Wall	U	Ctr		F Plaster	White	-0.2	QM
238	057	Rm 03	C	Ceiling		Ctr		F Plaster	White	-0.1	QM
<u>239</u>	<u>058</u>	<u>Rm 02A</u>	<u>A</u>	<u>Wall</u>		<u>W Ctr</u>		<u>P Plaster</u>	<u>White</u>	<u>8.4</u>	<u>QM</u>
240	058	Rm 02A	A	Ceiling		Ctr		P Plaster	White	0.3	QM
<u>241</u>	<u>059</u>	<u>Rm 02</u>	<u>B</u>	<u>Wall</u>		<u>W Ctr</u>		<u>F Plaster</u>	<u>White</u>	<u>5.2</u>	<u>QM</u>
<u>242</u>	<u>059</u>	<u>Rm 02</u>	<u>B</u>	<u>Wall</u>		<u>W Ctr</u>		<u>F Plaster</u>	<u>Dk Green</u>	<u>6.7</u>	<u>QM</u>
243	059	Rm 02	B	Ceiling		Ctr		P Plaster	White	-0.2	QM
<u>244</u>	<u>059</u>	<u>Rm 02</u>	<u>B</u>	<u>Vault</u>		<u>Ctr</u>	<u>Casing</u>	<u>I Metal</u>	<u>Gray</u>	<u>1.4</u>	<u>QM</u>
<u>245</u>	<u>059</u>	<u>Rm 02</u>	<u>B</u>	<u>Vault</u>		<u>Ctr</u>	<u>Door Face</u>	<u>I Metal</u>	<u>Gray</u>	<u>1.4</u>	<u>QM</u>
<u>246</u>	<u>060</u>	<u>Rm 04</u>	<u>A</u>	<u>Wall</u>		<u>W Ctr</u>		<u>P Plaster</u>	<u>White</u>	<u>5.9</u>	<u>QM</u>
247	061	Vault 05	A	Wall	W	Ctr		I Plaster	Lt Green	0.0	QM
248	061	Vault 05	B	Wall	W	Ctr		I Plaster	Lt Green	-0.1	QM
249	061	Vault 05	C	Wall	W	Ctr		I Plaster	Lt Green	-0.6	QM
250	061	Vault 05	D	Wall	W	Ctr		I Plaster	Lt Green	-0.5	QM
251	061	Vault 05	D	Ceiling		Ctr		I Plaster	Lt Green	-0.7	QM
<u>252</u>	<u>061</u>	<u>Vault 05</u>	<u>D</u>	<u>Door</u>		<u>Ctr</u>	<u>U Rgt</u>	<u>I Metal</u>	<u>Gray</u>	<u>1.8</u>	<u>QM</u>
<u>253</u>	<u>062</u>	<u>Rm 06</u>	<u>A</u>	<u>Wall</u>		<u>W Ctr</u>		<u>P Plaster</u>	<u>White</u>	<u>7.5</u>	<u>QM</u>
<u>254</u>	<u>063</u>	<u>Rm 07</u>	<u>A</u>	<u>Wall</u>		<u>W Ctr</u>		<u>P Plaster</u>	<u>White</u>	<u>5.4</u>	<u>QM</u>
255	064	Rm-08	A	Wall	L	Ctr		F Plaster	Lt Green	-0.5	QM
256	064	Rm-08	B	Wall	L	Ctr		F Plaster	Lt Green	0.0	QM
257	064	Rm-08	C	Wall	L	Ctr		F Plaster	Lt Green	0.1	QM
258	064	Rm-08	D	Wall	L	Ctr		F Plaster	Lt Green	-0.2	QM
259	064	Rm-08	D	Wall	U	Ctr		F Plaster	White	-0.8	QM
260	064	Rm-08	A	Wall	U	Ctr		F Plaster	White	-0.1	QM
261	064	Rm-08	B	Wall	U	Ctr		F Plaster	White	-0.1	QM
262	064	Rm-08	B	Ceiling		Ctr		F Plaster	White	0.0	QM
263	065	Tunnel	A	Wall	W	Ctr		P Stone	Green	0.3	QM
264	065	Tunnel	A	Wall	W	Ctr		P Concrete	Green	-0.5	QM
265	065	Tunnel	B	Wall	W	Ctr		F Brick	Green	0.2	QM
266	065	Tunnel	C	Wall	W	Lft		F Stone	Green	-0.3	QM
267	065	Tunnel	C	Wall	W	Lft		F Stone	Green	-0.8	QM
268	065	Tunnel	C	Wall	W	Rgt		F Stone	Green	-0.5	QM
269	065	Tunnel	D	Wall	W	Rgt		F Brick	Green	0.0	QM
270	065	Tunnel	A	Storage		Rgt	Door	F Wood	Green	-0.5	QM
271	065	Tunnel	A	Storage		Ctr	Door	F Wood	Green	-0.4	QM
272	065	Tunnel	A	Storage		Rgt	Door	F Wood	Green	-0.7	QM
273	065	Tunnel	C	Storage		Rgt	Door	F Wood	Green	0.1	QM
274	065	Tunnel	C	Storage		Rgt	Wall	F Wood	Green	0.0	QM
275	065	Tunnel	D	Ceiling		Ctr		F Wood	Green	-0.2	QM
276	065	Tunnel	D	Ceiling		Ctr		F Wood	Green	-0.8	QM
277	066	Rm 09	D	Wall	L	Ctr		P Plaster	Beige	-0.5	QM
278	066	Rm 09	D	Wall	U	Ctr		P Plaster	White	0.0	QM
279	066	Rm 09	D	Ceiling		Ctr		F Plaster	White	-0.6	QM
280	066	Rm 09	C	Door		Ctr	U Ctr	P Metal	Gray	-0.6	QM
<u>281</u>	<u>066</u>	<u>Rm 09</u>	<u>C</u>	<u>Door</u>		<u>Ctr</u>	<u>Jamb</u>	<u>F Metal</u>	<u>Lt Green</u>	<u>3.3</u>	<u>QM</u>
<u>282</u>	<u>067</u>	<u>Rm 010</u>	<u>A</u>	<u>Door</u>		<u>Rgt</u>	<u>Casing</u>	<u>F Metal</u>	<u>Lt Green</u>	<u>2.8</u>	<u>QM</u>
<u>283</u>	<u>067</u>	<u>Rm 010</u>	<u>A</u>	<u>Door</u>		<u>Rgt</u>	<u>U Ctr</u>	<u>F Metal</u>	<u>Lt Green</u>	<u>>9.9</u>	<u>QM</u>
<u>284</u>	<u>067</u>	<u>Rm 010</u>	<u>A</u>	<u>Wall</u>		<u>U Rgt</u>		<u>F Brick</u>	<u>Lt Green</u>	<u>5.1</u>	<u>QM</u>
285	067	Rm 010	A	Wall	L	Rgt		F Brick	Green	-0.4	QM
286	067	Rm 010	A	Ceiling		Rgt		F Brick	White	-0.1	QM
287	068	Rm 011	D	Wall	W	Ctr		P Stone	Black	-0.2	QM
288	069	Rm 012	B	Wall	W	Ctr		F Plaster	White	-0.3	QM
289	069	Rm 012	D	Wall	W	Ctr		F Plaster	White	0.0	QM
290	069	Rm 012	A	Wall	W	Ctr		F Plaster	White	-0.2	QM
291	069	Rm 012	A	Ceiling		Ctr		F Plaster	White	-0.1	QM
292	070	Rm 013	A	Ceiling		Ctr		P Plaster	Beige	-0.3	QM
293	070	Rm 013	A	Wall	W	Ctr		P Plaster	Beige	0.0	QM
294	070	Rm 013	C	Wall	W	Ctr		P Plaster	Beige	0.4	QM
295	070	Rm 013	A	Door		Ctr	Casing	F Wood	Stained	-0.3	QM
296	071	Rm 014	D	Door		Ctr	Casing	P Wood	Lt Green	-0.4	QM
297	071	Rm 014	D	Door		Ctr	U Rgt	P Wood	Lt Green	0.4	QM

298	071	Rm 014	A	Wall	W	Ctr	P	Plaster	Lt Green	-0.4	QM
299	071	Rm 014	B	Wall	W	Ctr	P	Plaster	Lt Green	-0.6	QM
300	071	Rm 014	C	Wall	W	Ctr	P	Plaster	Lt Green	-0.5	QM
301	071	Rm 014	C	Ceiling		Ctr	F	Plaster	White	0.2	QM
<u>302</u>	<u>072</u>	<u>Rm 025</u>	<u>C</u>	<u>Ceiling</u>		<u>Ctr</u>	<u>F</u>	<u>Plaster</u>	<u>White</u>	<u>8.4</u>	<u>QM</u>
<u>303</u>	<u>072</u>	<u>Rm 025</u>	<u>C</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>F</u>	<u>Plaster</u>	<u>White</u>	<u>9.0</u>	<u>QM</u>
<u>304</u>	<u>072</u>	<u>Rm 025</u>	<u>B</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>F</u>	<u>Plaster</u>	<u>White</u>	<u>9.2</u>	<u>QM</u>
<u>305</u>	<u>073</u>	<u>Rm 015</u>	<u>A</u>	<u>Wall</u>	<u>U</u>	<u>Lft</u>	<u>P</u>	<u>Plaster</u>	<u>White</u>	<u>3.0</u>	<u>QM</u>
<u>306</u>	<u>073</u>	<u>Rm 015</u>	<u>A</u>	<u>Wall</u>	<u>L</u>	<u>Lft</u>	<u>P</u>	<u>Plaster</u>	<u>White</u>	<u>4.2</u>	<u>QM</u>
<u>307</u>	<u>073</u>	<u>Rm 015</u>	<u>A</u>	<u>Ceiling</u>		<u>Lft</u>	<u>P</u>	<u>Plaster</u>	<u>White</u>	<u>2.1</u>	<u>QM</u>
<u>308</u>	<u>074</u>	<u>Rm 017</u>	<u>D</u>	<u>Ceiling</u>		<u>Ctr</u>	<u>P</u>	<u>Plaster</u>	<u>White</u>	<u>5.4</u>	<u>QM</u>
<u>309</u>	<u>074</u>	<u>Rm 017</u>	<u>D</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>P</u>	<u>Plaster</u>	<u>Green</u>	<u>5.1</u>	<u>QM</u>
<u>310</u>	<u>075</u>	<u>Rm 022</u>	<u>B</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>P</u>	<u>Plaster</u>	<u>Green</u>	<u>3.4</u>	<u>QM</u>
<u>311</u>	<u>075</u>	<u>Rm 022</u>	<u>B</u>	<u>Ceiling</u>		<u>Ctr</u>	<u>F</u>	<u>Plaster</u>	<u>White</u>	<u>3.8</u>	<u>QM</u>
<u>312</u>	<u>076</u>	<u>Rm 022</u>	<u>B</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>P</u>	<u>Plaster</u>	<u>Beige</u>	<u>3.8</u>	<u>QM</u>
<u>313</u>	<u>077</u>	<u>Rm 023</u>	<u>C</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>P</u>	<u>Plaster</u>	<u>Beige</u>	<u>4.4</u>	<u>QM</u>
<u>314</u>	<u>078</u>	<u>Rm 024</u>	<u>D</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>F</u>	<u>Plaster</u>	<u>Beige</u>	<u>5.9</u>	<u>QM</u>
<u>315</u>	<u>079</u>	<u>Rm 019</u>	<u>A</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>P</u>	<u>Plaster</u>	<u>Green</u>	<u>4.1</u>	<u>QM</u>
<u>316</u>	<u>079</u>	<u>Rm 019</u>	<u>C</u>	<u>Wall</u>	<u>W</u>	<u>Ctr</u>	<u>P</u>	<u>Plaster</u>	<u>Green</u>	<u>6.3</u>	<u>QM</u>
<u>317</u>	<u>079</u>	<u>Rm 019</u>	<u>C</u>	<u>Ceiling</u>		<u>Ctr</u>	<u>F</u>	<u>Plaster</u>	<u>Green</u>	<u>3.6</u>	<u>QM</u>
<u>318</u>	<u>079</u>	<u>Rm 019</u>	<u>A</u>	<u>Door</u>	<u>Rgt</u>	<u>Casing</u>	<u>F</u>	<u>Metal</u>	<u>Green</u>	<u>4.1</u>	<u>QM</u>
<u>319</u>	<u>079</u>	<u>Rm 019</u>	<u>A</u>	<u>Door</u>	<u>Rgt</u>	<u>U Ctr</u>	<u>F</u>	<u>Metal</u>	<u>Green</u>	<u>4.3</u>	<u>QM</u>
<u>320</u>	<u>079</u>	<u>Rm 019</u>	<u>A</u>	<u>Door</u>	<u>Lft</u>	<u>U Ctr</u>	<u>F</u>	<u>Metal</u>	<u>Green</u>	<u>4.2</u>	<u>QM</u>
<u>321</u>	<u>079</u>	<u>Rm 019</u>	<u>A</u>	<u>Door</u>	<u>Lft</u>	<u>Casing</u>	<u>F</u>	<u>Metal</u>	<u>Green</u>	<u>4.1</u>	<u>QM</u>
<u>322</u>	<u>080</u>	<u>Rm 021</u>	<u>C</u>	<u>Door</u>	<u>Lft</u>	<u>Casing</u>	<u>F</u>	<u>Metal</u>	<u>Green</u>	<u>4.3</u>	<u>QM</u>
323	080	Rm 021	C	Wall	W	Lft	P	Plaster	Black	-0.1	QM
324	080	Rm 021	C	Wall	W	Ctr	P	Plaster	Black	0.0	QM
325	080	Rm 021	C	Wall	W	Rgt	P	Plaster	Black	0.2	QM
326	081	Rm 020	C	Wall	W	Ctr	P	Plaster	Black	0.4	QM
327	081	Rm 020	B	Wall	W	Ctr	P	Plaster	Black	-0.3	QM
328	081	Rm 020	D	Wall	W	Ctr	P	Plaster	Black	0.3	QM
329	081	Rm 020	D	Door		Ctr Casing	F	Metal	Green	0.4	QM
330		CALIBRATION								1.0	TC
331		CALIBRATION								0.0	TC
332		CALIBRATION								0.0	TC
333		CALIBRATION								-0.1	TC
334		CALIBRATION								1.0	TC
335		CALIBRATION								1.0	TC
336		CALIBRATION								1.0	TC

----- End of Readings -----

SUMMARY REPORT OF LEAD PAINT SCREENING

Screening Date: 04/28/09
 Report Date: 5/1/2009
 Abatement Level: 1.0
 Report No.: S#01546 - 04/28/09 08:31
 Total Readings: 336 Actionable: 157
 Job Started: 04/28/09 08:31
 Job Finished: 04/28/09 12:01

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
Interior Room 001 Rm 121									
008	A	Coat Rail	Lft		I	Wood	White	>9.9	QM
007	A	Wall	W Lft		I	Plaster	White	>9.9	QM
Interior Room 002 Rm 120									

010	A	Wall	L Ctr	F	Plaster	White	9.1	QM
009	B	Wall	W Lft	P	Plaster	White	5.8	QM
022	B	Ceiling	Lft	P	Plaster	White	>9.9	QM
013	D	Vault	Lft Jamb	I	Metal	Black	6.4	QM
014	D	Vault	Lft Door Face	I	Metal	Black	>9.9	QM
011	D	Vault	Rgt Door Face	I	Metal	Black	3.9	QM
012	D	Vault	Rgt Jamb	I	Metal	Black	>9.9	QM
Interior Room 004 Vault 119								
019	A	Wall	L Rgt	P	Plaster	Gold	6.7	QM
020	A	Wall	U Rgt	F	Plaster	White	4.4	QM
021	D	Storage	Rgt Door	I	Metal	Black	1.0	QM
Interior Room 005 Rm 123								
024	A	Wall	L Rgt	I	Plaster	Lt Blue	5.6	QM
023	A	Wall	U Rgt	I	Plaster	White	>9.9	QM
Interior Room 006 Rm 122								
027	D	Pipe	Lft	F	Wrap	White	>9.9	QM
025	D	Wall	L Rgt	I	Plaster	Beige	4.8	QM
026	D	Wall	U Rgt	P	Plaster	White	9.5	QM
Interior Room 007 Rm 133								
028	C	Wall	W Ctr	I	Plaster	Beige	9.1	QM
Interior Room 008 Rm 137								
031	C	Coat Rail	Ctr	I	Wood	White	>9.9	QM
030	C	Wall	W Ctr	I	Plaster	White	>9.9	QM
Interior Room 009 Rm 138								
033	C	Wall	W Ctr	I	Plaster	Beige	>9.9	QM
Interior Room 010 Vault 136								
034	A	Wall	W Ctr	I	Plaster	Beige	1.4	QM
036	B	Vault	Ctr Door Face	I	Metal	Black	>9.9	QM
037	B	Vault	Ctr Jamb	I	Metal	Black	2.5	QM
Interior Room 011 Stair 108								
038	A	Wall	L Ctr	F	Plaster	Beige	2.2	QM
039	A	Wall	U Ctr	F	Plaster	White	4.4	QM
040	A	Ceiling	Ctr	F	Plaster	White	4.1	QM
041	D	Stairs	Ctr Stringers	I	Metal	Brown	1.0	QM
042	D	Stairs	Ctr Risers	I	Metal	Brown	1.3	QM
043	D	Railing	Ctr Newel Post	I	Metal	Brown	1.0	QM
044	D	Railing	Ctr Bottom Rail	I	Metal	Brown	1.0	QM
Interior Room 012 Stair 109								
046	A	Wall	L Ctr	I	Plaster	Beige	2.2	QM
047	A	Wall	U Ctr	I	Plaster	White	4.7	QM
048	A	Ceiling	Ctr	I	Plaster	White	>9.9	QM
049	B	Stairs	Ctr Stringers	I	Metal	Brown	1.4	QM
050	B	Railing	Ctr Newel Post	I	Metal	Brown	1.4	QM
Interior Room 013 Rm 113								
051	A	Wall	W Ctr	I	Plaster	Beige	4.4	QM
052	C	Pipe	Ctr	I	Metal	Beige	4.1	QM
Interior Room 014 Rm 112								
053	A	Wall	W Ctr	I	Plaster	Beige	4.5	QM
054	A	Ceiling	Ctr	I	Plaster	Beige	>9.9	QM
Interior Room 015 Rm 235								
055	D	Wall	W Ctr	P	Plaster	Beige	>9.9	QM

Interior Room 016 Rm 231									
058	D	Wall	L Ctr		F	Plaster	Gold	3.2	QM
057	D	Wall	U Ctr		P	Plaster	White	>9.9	QM
Interior Room 017 Rm 232									
060	D	Wall Cabinet	Ctr		P	Plaster	White	2.3	QM
061	D	Ceiling	Ctr		P	Plaster	White	6.5	QM
Interior Room 018 Rm 230									
063	B	Wall	W Ctr		F	Plaster	Beige	9.2	QM
062	D	Wall	W Ctr		P	Plaster	Beige	4.3	QM
Interior Room 019 234/37/39									
066	C	Wall	L Ctr		I	Plaster	Beige	>9.9	QM
067	C	Wall	U Ctr		I	Plaster	White	>9.9	QM
Interior Room 020 Rm 233									
072	A	Wall	W Ctr		F	Plaster	White	3.5	QM
076	C	Wall	W Ctr		F	Plaster	White	4.4	QM
075	D	Wall	W Ctr		F	Plaster	White	4.1	QM
Interior Room 021 Rm 238									
077	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
081	B	Vault	Ctr	Door Face	F	Metal	Beige	2.2	QM
082	B	Vault	Ctr	Casing	F	Metal	Beige	1.5	QM
083	B	Vault	Ctr	Jamb	F	Metal	Black	1.5	QM
079	C	Wall	W Lft		F	Plaster	Beige	>9.9	QM
080	C	Ceiling	Lft		P	Plaster	White	>9.9	QM
Interior Room 022 Vault 239									
085	C	Wall	W Rgt		F	Plaster	White	9.3	QM
086	D	Vault	Lft	Casing	I	Metal	Black	2.3	QM
084	D	Wall	W Ctr		P	Plaster	White	>9.9	QM
Interior Room 023 Rm 243									
088	B	Pipe	Ctr		F	Wrap	White	>9.9	QM
087	B	Wall	W Ctr		F	Plaster	White	>9.9	QM
Interior Room 024 Rm 215									
089	B	Wall	W Ctr		I	Plaster	White	>9.9	QM
Interior Room 025 Hall 201									
091	A	Wall	L Lft		I	Plaster	Beige	2.6	QM
090	A	Wall	U Lft		I	Plaster	White	>9.9	QM
092	C	Wall	L Ctr		I	Plaster	Beige	>9.9	QM
093	C	Wall	U Ctr		I	Plaster	Beige	>9.9	QM
Comment: Assume ceiling & crown molding are LBP coated									
Interior Room 026 Hall 203									
099	A	Ceiling	Rgt		P	Plaster	White	>9.9	QM
097	C	Wall	L Rgt		F	Plaster	Beige	3.5	QM
098	C	Wall	U Rgt		F	Plaster	White	>9.9	QM
Interior Room 027 Hall 202									
102	B	Wall	L Rgt		P	Plaster	Beige	3.4	QM
101	B	Wall	U Rgt		P	Plaster	White	>9.9	QM
100	B	Ceiling	Rgt		P	Plaster	White	>9.9	QM
Interior Room 028 Stair 206/7									
103	B	Wall	L Rgt		P	Plaster	Beige	>9.9	QM
104	B	Wall	U Rgt		P	Plaster	White	>9.9	QM
105	D	Ceiling	Rgt		P	Plaster	White	>9.9	QM

Interior Room 030 Rm 229									
109	A	Wall	W Ctr		I	Plaster	Beige	3.8	QM
Interior Room 031 Rm 228									
111	C	Wall	W Ctr		P	Plaster	White	>9.9	QM
112	C	Ceiling	Ctr		P	Plaster	White	>9.9	QM
Interior Room 032 Rm 226									
113	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
Interior Room 033 Rm 227									
114	A	Wall	W Ctr		P	Plaster	Cream	5.2	QM
Interior Room 034 Rm 225									
117	D	Wall	W Rgt		P	Plaster	White	>9.9	QM
Interior Room 035 Rm 224									
120	A	Pipe	Rgt		F	Wrap	Beige	>9.9	QM
119	C	Radiator	Ctr	Cover	F	Metal	White	1.6	QM
118	C	Wall	W Ctr		P	Plaster	Beige	9.3	QM
Interior Room 039 Rm 219									
138	D	Access Door	Rgt		P	Metal	White	1.5	QM
Interior Room 040 Rms 251-56									
146	A	Vault	Ctr	Door Face	I	Metal	White	1.0	QM
147	A	Vault	Ctr	Casing	I	Metal	White	1.7	QM
160	A	Wall	U Rgt		F	Plaster	White	>9.9	QM
143	C	Wall	W Rgt		F	Plaster	White	2.3	QM
142	D	Wall	W Lft		F	Plaster	White	3.3	QM
Interior Room 042 Rm 211									
154	B	Wall	L Ctr		F	Plaster	Lt Green	7.4	QM
155	B	Wall	U Ctr		F	Plaster	White	8.0	QM
Interior Room 043 Rm 214									
161	A	Wall	U Ctr		F	Plaster	White	>9.9	QM
Interior Room 044 Rm 249									
162	A	Wall	U Ctr		P	Plaster	White	>9.9	QM
165	C	Wall	U Ctr		P	Plaster	White	>9.9	QM
Interior Room 045 Rm 248									
166	A	Wall	U Ctr		P	Plaster	White	9.2	QM
169	C	Wall	U Ctr		F	Plaster	White	>9.9	QM
Interior Room 046 Rm 247									
171	B	Wall	U Ctr		F	Plaster	White	>9.9	QM
170	D	Wall	U Ctr		F	Plaster	White	>9.9	QM
Interior Room 050 Rm 241									
207	A	Radiator	Lft	Cover	F	Metal	Brown	1.3	QM
205	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
199	B	Wall	W Ctr		I	Plaster	White	9.4	QM
200	D	Wall	W Ctr		I	Plaster	White	>9.9	QM
Interior Room 051 Rm 215/217									
201	A	Wall	W Ctr		I	Plaster	White	>9.9	QM
208	A	Wall	W Ctr		I	Plaster	Beige	9.1	QM
209	B	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
202	C	Wall	W Ctr		I	Plaster	White	>9.9	QM
210	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM

211	D	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
Interior Room 052 Rm 3rd East									
204	A	Wall	W Ctr		I	Plaster	White	9.1	QM
216	B	Window	Ctr	Casing	F	Wood	Brown	5.5	QM
203	C	Wall	W Ctr		I	Plaster	White	6.3	QM
Interior Room 054 Rm 209									
227	B	Wall	W Ctr		P	Plaster	Lt Green	>9.9	QM
228	B	Wall	W Ctr		P	Plaster	White	9.1	QM
Interior Room 055 Rm 212/213									
229	A	Wall	W Ctr		P	Plaster	White	>9.9	QM
230	C	Wall	W Ctr		P	Plaster	White	9.2	QM
Interior Room 056 Rm 01									
231	C	Wall	L Ctr		F	Plaster	Lt Green	3.7	QM
232	C	Wall	U Ctr		F	Plaster	White	2.6	QM
233	D	Ceiling	Ctr		F	Plaster	White	3.4	QM
235	D	Stairs	Ctr	Stringers	F	Metal	Brown	1.4	QM
234	D	Railing	Ctr	Newel Post	F	Metal	Brown	2.8	QM
Interior Room 058 Rm 02A									
239	A	Wall	W Ctr		P	Plaster	White	8.4	QM
Interior Room 059 Rm 02									
244	B	Vault	Ctr	Casing	I	Metal	Gray	1.4	QM
245	B	Vault	Ctr	Door Face	I	Metal	Gray	1.4	QM
241	B	Wall	W Ctr		F	Plaster	White	5.2	QM
242	B	Wall	W Ctr		F	Plaster	Dk Green	6.7	QM
Interior Room 060 Rm 04									
246	A	Wall	W Ctr		P	Plaster	White	5.9	QM
Interior Room 061 Vault 05									
252	D	Door	Ctr	U Rgt	I	Metal	Gray	1.8	QM
Interior Room 062 Rm 06									
253	A	Wall	W Ctr		P	Plaster	White	7.5	QM
Interior Room 063 Rm 07									
254	A	Wall	W Ctr		P	Plaster	White	5.4	QM
Interior Room 066 Rm 09									
281	C	Door	Ctr	Jamb	F	Metal	Lt Green	3.3	QM
Interior Room 067 Rm 010									
284	A	Wall	U Rgt		F	Brick	Lt Green	5.1	QM
282	A	Door	Rgt	Casing	F	Metal	Lt Green	2.8	QM
283	A	Door	Rgt	U Ctr	F	Metal	Lt Green	>9.9	QM
Interior Room 072 Rm 025									
304	B	Wall	W Ctr		F	Plaster	White	9.2	QM
303	C	Wall	W Ctr		F	Plaster	White	9.0	QM
302	C	Ceiling	Ctr		F	Plaster	White	8.4	QM
Interior Room 073 Rm 015									
306	A	Wall	L Lft		P	Plaster	White	4.2	QM
305	A	Wall	U Lft		P	Plaster	White	3.0	QM
307	A	Ceiling	Lft		P	Plaster	White	2.1	QM
Interior Room 074 Rm 017									
309	D	Wall	W Ctr		P	Plaster	Green	5.1	QM

308	D	Ceiling	Ctr		P	Plaster	White	5.4	QM
Interior Room 075 Rm 022									
310	B	Wall	W Ctr		P	Plaster	Green	3.4	QM
311	B	Ceiling	Ctr		P	Plaster	White	3.8	QM
Interior Room 076 Rm 022									
312	B	Wall	W Ctr		P	Plaster	Beige	3.8	QM
Interior Room 077 Rm 023									
313	C	Wall	W Ctr		P	Plaster	Beige	4.4	QM
Interior Room 078 Rm 024									
314	D	Wall	W Ctr		P	Plaster	Beige	5.9	QM
Interior Room 079 Rm 019									
315	A	Wall	W Ctr		P	Plaster	Green	4.1	QM
321	A	Door	Lft	Casing	F	Metal	Green	4.1	QM
320	A	Door	Lft	U Ctr	F	Metal	Green	4.2	QM
318	A	Door	Rgt	Casing	F	Metal	Green	4.1	QM
319	A	Door	Rgt	U Ctr	F	Metal	Green	4.3	QM
316	C	Wall	W Ctr		P	Plaster	Green	6.3	QM
317	C	Ceiling	Ctr		F	Plaster	Green	3.6	QM
Interior Room 080 Rm 021									
322	C	Door	Lft	Casing	F	Metal	Green	4.3	QM

Calibration Readings

----- End of Readings -----

DETAILED REPORT OF LEAD PAINT SCREENING

Screening Date: 04/28/09
 Report Date: 5/1/2009
 Abatement Level: 1.0
 Report No. S#01546 - 04/28/09 08:31
 Total Readings: 336
 Job Started: 04/28/09 08:31
 Job Finished: 04/28/09 12:01

Read No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm ²)	Mode
Interior Room 001 Rm 121									
008	A	Coat Rail	Lft		I	Wood	White	>9.9	QM
007	A	Wall	W Lft		I	Plaster	White	>9.9	QM
Interior Room 002 Rm 120									
010	A	Wall	L Ctr		F	Plaster	White	9.1	QM
009	B	Wall	W Lft		P	Plaster	White	5.8	QM
022	B	Ceiling	Lft		P	Plaster	White	>9.9	QM
015	C	Radiator	Rgt		I	Metal	Black	-0.7	QM
013	D	Vault	Lft	Jamb	I	Metal	Black	6.4	QM
014	D	Vault	Lft	Door Face	I	Metal	Black	>9.9	QM
011	D	Vault	Rgt	Door Face	I	Metal	Black	3.9	QM
012	D	Vault	Rgt	Jamb	I	Metal	Black	>9.9	QM
Interior Room 003 Vault 115									
017	B	Wall	W Ctr		I	Plaster	White	-0.1	QM

018	B	Wall	L Rgt		I	Plaster	Brown	-0.4	QM
016	D	Wall	W Ctr		I	Plaster	White	-0.4	QM
Interior Room 004 Vault 119									
019	A	Wall	L Rgt		P	Plaster	Gold	6.7	QM
020	A	Wall	U Rgt		F	Plaster	White	4.4	QM
021	D	Storage	Rgt	Door	I	Metal	Black	1.0	QM
Interior Room 005 Rm 123									
024	A	Wall	L Rgt		I	Plaster	Lt Blue	5.6	QM
023	A	Wall	U Rgt		I	Plaster	White	>9.9	QM
Interior Room 006 Rm 122									
027	D	Pipe	Lft		F	Wrap	White	>9.9	QM
025	D	Wall	L Rgt		I	Plaster	Beige	4.8	QM
026	D	Wall	U Rgt		P	Plaster	White	9.5	QM
Interior Room 007 Rm 133									
028	C	Wall	W Ctr		I	Plaster	Beige	9.1	QM
029	C	Baseboard	Ctr		I	Wood	Stained	-0.6	QM
Interior Room 008 Rm 137									
032	A	Shelf Support	Lft		I	Wood	White	0.0	QM
031	C	Coat Rail	Ctr		I	Wood	White	>9.9	QM
030	C	Wall	W Ctr		I	Plaster	White	>9.9	QM
Interior Room 009 Rm 138									
033	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
Interior Room 010 Vault 136									
034	A	Wall	W Ctr		I	Plaster	Beige	1.4	QM
036	B	Vault	Ctr	Door Face	I	Metal	Black	>9.9	QM
037	B	Vault	Ctr	Jamb	I	Metal	Black	2.5	QM
035	C	Wall	W Ctr		I	Plaster	Beige	0.8	QM
Interior Room 011 Stair 108									
038	A	Wall	L Ctr		F	Plaster	Beige	2.2	QM
039	A	Wall	U Ctr		F	Plaster	White	4.4	QM
040	A	Ceiling	Ctr		F	Plaster	White	4.1	QM
041	D	Stairs	Ctr	Stringers	I	Metal	Brown	1.0	QM
042	D	Stairs	Ctr	Risers	I	Metal	Brown	1.3	QM
043	D	Railing	Ctr	Newel Post	I	Metal	Brown	1.0	QM
044	D	Railing	Ctr	Bottom Rail	I	Metal	Brown	1.0	QM
045	D	Railing	Ctr	Top Rail	I	Wood	Stained	0.2	QM
Interior Room 012 Stair 109									
046	A	Wall	L Ctr		I	Plaster	Beige	2.2	QM
047	A	Wall	U Ctr		I	Plaster	White	4.7	QM
048	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
049	B	Stairs	Ctr	Stringers	I	Metal	Brown	1.4	QM
050	B	Railing	Ctr	Newel Post	I	Metal	Brown	1.4	QM
Interior Room 013 Rm 113									
051	A	Wall	W Ctr		I	Plaster	Beige	4.4	QM
052	C	Pipe	Ctr		I	Metal	Beige	4.1	QM
Interior Room 014 Rm 112									
053	A	Wall	W Ctr		I	Plaster	Beige	4.5	QM
054	A	Ceiling	Ctr		I	Plaster	Beige	>9.9	QM
Interior Room 015 Rm 235									
056	A	Door	Lft	U Ctr	I	Wood	Brown	0.0	QM
055	D	Wall	W Ctr		P	Plaster	Beige	>9.9	QM

Interior Room 016 Rm 231									
058	D	Wall	L Ctr		F	Plaster	Gold	3.2	QM
057	D	Wall	U Ctr		P	Plaster	White	>9.9	QM
Interior Room 017 Rm 232									
060	D	Wall Cabinet	Ctr		P	Plaster	White	2.3	QM
059	D	Wall	L Ctr		P	Plaster	Gold	-0.4	QM
061	D	Ceiling	Ctr		P	Plaster	White	6.5	QM
Interior Room 018 Rm 230									
064	A	Wall	W Ctr		F	Drywall	Beige	-0.5	QM
065	A	Floor	Ctr		I	Vinyl	Brown	-0.4	QM
063	B	Wall	W Ctr		F	Plaster	Beige	9.2	QM
062	D	Wall	W Ctr		P	Plaster	Beige	4.3	QM
Interior Room 019 234/37/39									
069	A	Door	Ctr	Casing	I	Wood	Gray	-0.3	QM
066	C	Wall	L Ctr		I	Plaster	Beige	>9.9	QM
067	C	Wall	U Ctr		I	Plaster	White	>9.9	QM
070	C	Door	Ctr	Jamb	I	Wood	Tan	-0.2	QM
071	C	Door	Ctr	U Ctr	I	Wood	Tan	-0.4	QM
068	D	Duct	Ctr		I	Metal	White	-0.4	QM
Interior Room 020 Rm 233									
073	A	Coat Rail	Ctr		F	Wood	White	-0.4	QM
072	A	Wall	W Ctr		F	Plaster	White	3.5	QM
076	C	Wall	W Ctr		F	Plaster	White	4.4	QM
074	D	Wall Cabinet	Ctr		F	Wood	White	-0.4	QM
075	D	Wall	W Ctr		F	Plaster	White	4.1	QM
Interior Room 021 Rm 238									
078	A	Panel Box	Rgt		F	Metal	Beige	-0.2	QM
077	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
081	B	Vault	Ctr	Door Face	F	Metal	Beige	2.2	QM
082	B	Vault	Ctr	Casing	F	Metal	Beige	1.5	QM
083	B	Vault	Ctr	Jamb	F	Metal	Black	1.5	QM
079	C	Wall	W Lft		F	Plaster	Beige	>9.9	QM
080	C	Ceiling	Lft		P	Plaster	White	>9.9	QM
Interior Room 022 Vault 239									
085	C	Wall	W Rgt		F	Plaster	White	9.3	QM
086	D	Vault	Lft	Casing	I	Metal	Black	2.3	QM
084	D	Wall	W Ctr		P	Plaster	White	>9.9	QM
Interior Room 023 Rm 243									
088	B	Pipe	Ctr		F	Wrap	White	>9.9	QM
087	B	Wall	W Ctr		F	Plaster	White	>9.9	QM
Interior Room 024 Rm 215									
089	B	Wall	W Ctr		I	Plaster	White	>9.9	QM
Interior Room 025 Hall 201									
091	A	Wall	L Lft		I	Plaster	Beige	2.6	QM
090	A	Wall	U Lft		I	Plaster	White	>9.9	QM
092	C	Wall	L Ctr		I	Plaster	Beige	>9.9	QM
093	C	Wall	U Ctr		I	Plaster	Beige	>9.9	QM
094	C	Floor	Ctr		I	Vinyl	Brown	0.4	QM
095	C	Floor	Ctr		I	Vinyl	Black	0.2	QM
Comment: Assume ceiling & crown molding are LBP coated									
Interior Room 026 Hall 203									
099	A	Ceiling	Rgt		P	Plaster	White	>9.9	QM

096	C	Wall	L Ctr		F	Plaster	Beige	0.8	QM
097	C	Wall	L Rgt		F	Plaster	Beige	3.5	QM
098	C	Wall	U Rgt		F	Plaster	White	>9.9	QM

Interior Room 027 Hall 202

102	B	Wall	L Rgt		P	Plaster	Beige	3.4	QM
101	B	Wall	U Rgt		P	Plaster	White	>9.9	QM
100	B	Ceiling	Rgt		P	Plaster	White	>9.9	QM

Interior Room 028 Stair 206/7

103	B	Wall	L Rgt		P	Plaster	Beige	>9.9	QM
104	B	Wall	U Rgt		P	Plaster	White	>9.9	QM
105	D	Ceiling	Rgt		P	Plaster	White	>9.9	QM

Interior Room 029 3rd West

106	D	Window	Ctr	Casing	I	Wood	Brown	-0.5	QM
107	D	Window	Ctr	Sash	I	Wood	Brown	0.1	QM
108	D	Window	Ctr	Sash	I	Wood	Brown	0.4	QM

Interior Room 030 Rm 229

109	A	Wall	W Ctr		I	Plaster	Beige	3.8	QM
110	C	Wall	W Ctr		I	Drywall	Beige	-0.5	QM

Interior Room 031 Rm 228

111	C	Wall	W Ctr		P	Plaster	White	>9.9	QM
112	C	Ceiling	Ctr		P	Plaster	White	>9.9	QM

Interior Room 032 Rm 226

113	A	Wall	W Ctr		F	Plaster	Beige	>9.9	QM
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Interior Room 033 Rm 227

114	A	Wall	W Ctr		P	Plaster	Cream	5.2	QM
115	C	Door	Lft	Casing	I	Wood	Stained	-0.3	QM
116	C	Door	Lft	Baseboard	I	Wood	Stained	-0.4	QM

Interior Room 034 Rm 225

117	D	Wall	W Rgt		P	Plaster	White	>9.9	QM
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Interior Room 035 Rm 224

120	A	Pipe	Rgt		F	Wrap	Beige	>9.9	QM
119	C	Radiator	Ctr	Cover	F	Metal	White	1.6	QM
118	C	Wall	W Ctr		P	Plaster	Beige	9.3	QM

Interior Room 036 Rm 223

121	A	Wall	W Ctr		I	Plaster	Beige	-0.3	QM
122	B	Wall	W Ctr		I	Plaster	Beige	-0.1	QM
123	C	Wall	W Ctr		I	Plaster	Beige	-0.5	QM
125	D	Access Door	Rgt		I	Wood	Beige	0.4	QM
124	D	Wall	W Ctr		I	Plaster	Beige	-0.4	QM

Interior Room 037 Rm 220

126	A	Wall	W Ctr		I	Plaster	Beige	-0.4	QM
127	B	Wall	W Ctr		I	Plaster	Beige	0.5	QM
128	C	Wall	W Ctr		I	Plaster	Beige	-0.4	QM
129	D	Wall	W Ctr		I	Plaster	Beige	-0.3	QM

Interior Room 038 Rm 221

130	A	Wall	W Ctr		I	Plaster	White	-0.5	QM
131	B	Wall	W Ctr		I	Plaster	White	0.0	QM
132	C	Wall	W Ctr		I	Plaster	White	-0.1	QM
133	D	Wall	W Ctr		I	Plaster	White	-0.2	QM

Interior Room 039 Rm 219

134	A	Wall	W Ctr	F	Plaster	White	-0.2	QM
135	B	Wall	W Ctr	F	Plaster	White	-0.1	QM
136	C	Wall	W Ctr	F	Plaster	White	-0.2	QM
138	D	Access Door	Rgt	P	Metal	White	1.5	QM
137	D	Wall	W Ctr	F	Plaster	White	0.6	QM

Interior Room 040 Rms 251-56

146	A	Vault	Ctr	Door Face	I	Metal	White	1.0	QM
147	A	Vault	Ctr	Casing	I	Metal	White	1.7	QM
141	A	Wall	W Lft		F	Plaster	White	-0.2	QM
139	A	Wall	W Ctr		F	Plaster	White	0.0	QM
140	A	Wall	W Rgt		F	Plaster	White	-0.4	QM
160	A	Wall	U Rgt		F	Plaster	White	>9.9	QM
148	A	Ceiling	Lft		I	Plaster	White	-0.4	QM
149	A	Ceiling	Lft		I	Plaster	White	-0.2	QM
145	B	Wall	W Lft		P	Plaster	White	-0.7	QM
144	B	Wall	W Rgt		P	Plaster	White	-0.3	QM
143	C	Wall	W Rgt		F	Plaster	White	2.3	QM
142	D	Wall	W Lft		F	Plaster	White	3.3	QM

Interior Room 041 Vault 250

150	A	Wall	W Ctr	I	Plaster	Cream	-0.3	QM
153	C	Storage	Rgt	I	Wood	Cream	-0.3	QM
151	C	Wall	W Ctr	I	Plaster	Cream	-0.5	QM
152	D	Wall	W Ctr	I	Plaster	Cream	-0.3	QM

Interior Room 042 Rm 211

154	B	Wall	L Ctr	F	Plaster	Lt Green	7.4	QM
155	B	Wall	U Ctr	F	Plaster	White	8.0	QM

Interior Room 043 Rm 214

156	A	Wall	W Ctr	F	Plaster	Cream	0.2	QM
161	A	Wall	U Ctr	F	Plaster	White	>9.9	QM
157	B	Wall	W Ctr	F	Plaster	Cream	0.1	QM
158	C	Wall	W Ctr	F	Plaster	Cream	-0.3	QM
159	D	Wall	W Ctr	F	Plaster	Cream	0.0	QM

Interior Room 044 Rm 249

163	A	Wall	L Ctr	P	Plaster	White	-0.5	QM
162	A	Wall	U Ctr	P	Plaster	White	>9.9	QM
164	B	Wall	L Ctr	P	Plaster	White	-0.8	QM
165	C	Wall	U Ctr	P	Plaster	White	>9.9	QM

Interior Room 045 Rm 248

167	A	Wall	L Ctr	P	Plaster	White	0.0	QM
166	A	Wall	U Ctr	P	Plaster	White	9.2	QM
168	C	Wall	L Ctr	P	Plaster	White	-0.4	QM
169	C	Wall	U Ctr	F	Plaster	White	>9.9	QM

Interior Room 046 Rm 247

172	B	Wall	L Ctr	F	Plaster	White	-0.1	QM
171	B	Wall	U Ctr	F	Plaster	White	>9.9	QM
170	D	Wall	U Ctr	F	Plaster	White	>9.9	QM

Interior Room 047 Rm 246

173	A	Wall	L Ctr	F	Plaster	White	-0.6	QM
178	A	Wall	U Ctr	F	Plaster	White	0.4	QM
174	B	Wall	L Ctr	F	Plaster	White	-0.6	QM
179	B	Wall	U Ctr	F	Plaster	White	0.2	QM
175	C	Wall	L Ctr	F	Plaster	White	-0.4	QM
180	C	Wall	U Ctr	F	Plaster	White	-0.4	QM
176	D	Wall	L Ctr	F	Plaster	White	-0.8	QM
177	D	Wall	U Ctr	F	Plaster	White	-0.4	QM

Interior Room 048 Rm 245									
188	A	Wall	L Ctr		F	Plaster	White	-0.2	QM
181	A	Wall	U Ctr		F	Plaster	White	-0.7	QM
187	B	Wall	L Ctr		F	Plaster	White	0.0	QM
182	B	Wall	U Ctr		F	Plaster	White	-0.2	QM
186	C	Wall	L Ctr		F	Plaster	White	0.0	QM
183	C	Wall	U Ctr		F	Plaster	White	-0.2	QM
185	D	Wall	L Ctr		F	Plaster	White	0.1	QM
184	D	Wall	U Ctr		F	Plaster	White	-0.5	QM

Interior Room 049 Rm 244									
189	A	Wall	L Ctr		F	Plaster	Beige	-0.4	QM
193	A	Wall	U Ctr		F	Plaster	Beige	0.4	QM
190	B	Wall	L Ctr		F	Plaster	Beige	0.1	QM
194	B	Wall	U Ctr		F	Plaster	Beige	-0.5	QM
191	C	Wall	L Ctr		F	Plaster	Beige	-0.3	QM
195	C	Wall	U Ctr		F	Plaster	Beige	-0.2	QM
197	D	Pipe	Rgt		F	Wrap	Beige	-0.6	QM
198	D	Pipe	Rgt		F	Wrap	Beige	-0.3	QM
192	D	Wall	L Ctr		F	Plaster	Beige	-0.5	QM
196	D	Wall	U Ctr		F	Plaster	Beige	-0.3	QM

Interior Room 050 Rm 241									
207	A	Radiator	Lft	Cover	F	Metal	Brown	1.3	QM
206	A	Radiator	Rgt	Cover	F	Metal	Brown	0.7	QM
205	A	Ceiling	Ctr		I	Plaster	White	>9.9	QM
199	B	Wall	W Ctr		I	Plaster	White	9.4	QM
200	D	Wall	W Ctr		I	Plaster	White	>9.9	QM

Interior Room 051 Rm 215/217									
201	A	Wall	W Ctr		I	Plaster	White	>9.9	QM
208	A	Wall	W Ctr		I	Plaster	Beige	9.1	QM
209	B	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
213	B	Floor	Ctr		F	Vinyl	Brown	-0.1	QM
202	C	Wall	W Ctr		I	Plaster	White	>9.9	QM
210	C	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
211	D	Wall	W Ctr		I	Plaster	Beige	>9.9	QM
212	D	Floor	Ctr		F	Vinyl	Brown	-0.3	QM

Interior Room 052 Rm 3rd East									
204	A	Wall	W Ctr		I	Plaster	White	9.1	QM
216	B	Window	Ctr	Casing	F	Wood	Brown	5.5	QM
215	B	Window	Ctr	Sash	F	Wood	Brown	-0.7	QM
214	B	Window	Ctr	Sill	F	Wood	Brown	-0.5	QM
203	C	Wall	W Ctr		I	Plaster	White	6.3	QM

Interior Room 053 Rm 210									
224	A	Wall	W Ctr		F	Plaster	White	-0.2	QM
225	B	Wall	W Ctr		F	Plaster	White	0.1	QM
226	C	Wall	W Ctr		F	Plaster	White	0.6	QM
223	D	Wall	W Ctr		F	Plaster	White	-0.4	QM

Interior Room 054 Rm 209									
227	B	Wall	W Ctr		P	Plaster	Lt Green	>9.9	QM
228	B	Wall	W Ctr		P	Plaster	White	9.1	QM

Interior Room 055 Rm 212/213									
229	A	Wall	W Ctr		P	Plaster	White	>9.9	QM
230	C	Wall	W Ctr		P	Plaster	White	9.2	QM

Interior Room 056 Rm 01									
231	C	Wall	L Ctr		F	Plaster	Lt Green	3.7	QM

232	C	Wall	U Ctr		F	Plaster	White	2.6	QM
233	D	Ceiling	Ctr		F	Plaster	White	3.4	QM
235	D	Stairs	Ctr	Stringers	F	Metal	Brown	1.4	QM
234	D	Railing	Ctr	Newel Post	F	Metal	Brown	2.8	QM
Interior Room 057 Rm 03									
236	C	Wall	L Ctr		F	Plaster	Lt Green	-0.2	QM
237	C	Wall	U Ctr		F	Plaster	White	-0.2	QM
238	C	Ceiling	Ctr		F	Plaster	White	-0.1	QM
Interior Room 058 Rm 02A									
239	A	Wall	W Ctr		P	Plaster	White	8.4	QM
240	A	Ceiling	Ctr		P	Plaster	White	0.3	QM
Interior Room 059 Rm 02									
244	B	Vault	Ctr	Casing	I	Metal	Gray	1.4	QM
245	B	Vault	Ctr	Door Face	I	Metal	Gray	1.4	QM
241	B	Wall	W Ctr		F	Plaster	White	5.2	QM
242	B	Wall	W Ctr		F	Plaster	Dk Green	6.7	QM
243	B	Ceiling	Ctr		P	Plaster	White	-0.2	QM
Interior Room 060 Rm 04									
246	A	Wall	W Ctr		P	Plaster	White	5.9	QM
Interior Room 061 Vault 05									
247	A	Wall	W Ctr		I	Plaster	Lt Green	0.0	QM
248	B	Wall	W Ctr		I	Plaster	Lt Green	-0.1	QM
249	C	Wall	W Ctr		I	Plaster	Lt Green	-0.6	QM
250	D	Wall	W Ctr		I	Plaster	Lt Green	-0.5	QM
251	D	Ceiling	Ctr		I	Plaster	Lt Green	-0.7	QM
252	D	Door	Ctr	U Rgt	I	Metal	Gray	1.8	QM
Interior Room 062 Rm 06									
253	A	Wall	W Ctr		P	Plaster	White	7.5	QM
Interior Room 063 Rm 07									
254	A	Wall	W Ctr		P	Plaster	White	5.4	QM
Interior Room 064 Rm-08									
255	A	Wall	L Ctr		F	Plaster	Lt Green	-0.5	QM
260	A	Wall	U Ctr		F	Plaster	White	-0.1	QM
256	B	Wall	L Ctr		F	Plaster	Lt Green	0.0	QM
261	B	Wall	U Ctr		F	Plaster	White	-0.1	QM
262	B	Ceiling	Ctr		F	Plaster	White	0.0	QM
257	C	Wall	L Ctr		F	Plaster	Lt Green	0.1	QM
258	D	Wall	L Ctr		F	Plaster	Lt Green	-0.2	QM
259	D	Wall	U Ctr		F	Plaster	White	-0.8	QM
Interior Room 065 Tunnel									
271	A	Storage	Ctr	Door	F	Wood	Green	-0.4	QM
270	A	Storage	Rgt	Door	F	Wood	Green	-0.5	QM
272	A	Storage	Rgt	Door	F	Wood	Green	-0.7	QM
263	A	Wall	W Ctr		P	Stone	Green	0.3	QM
264	A	Wall	W Ctr		P	Concrete	Green	-0.5	QM
265	B	Wall	W Ctr		F	Brick	Green	0.2	QM
273	C	Storage	Rgt	Door	F	Wood	Green	0.1	QM
274	C	Storage	Rgt	Wall	F	Wood	Green	0.0	QM
266	C	Wall	W Lft		F	Stone	Green	-0.3	QM
267	C	Wall	W Lft		F	Stone	Green	-0.8	QM
268	C	Wall	W Rgt		F	Stone	Green	-0.5	QM
269	D	Wall	W Rgt		F	Brick	Green	0.0	QM
275	D	Ceiling	Ctr		F	Wood	Green	-0.2	QM
276	D	Ceiling	Ctr		F	Wood	Green	-0.8	QM

Interior Room 066 Rm 09										
281	C	Door	Ctr	Jamb	F	Metal	Lt Green	3.3	QM	
280	C	Door	Ctr	U Ctr	P	Metal	Gray	-0.6	QM	
277	D	Wall	L Ctr		P	Plaster	Beige	-0.5	QM	
278	D	Wall	U Ctr		P	Plaster	White	0.0	QM	
279	D	Ceiling	Ctr		F	Plaster	White	-0.6	QM	
Interior Room 067 Rm 010										
285	A	Wall	L Rgt		F	Brick	Green	-0.4	QM	
284	A	Wall	U Rgt		F	Brick	Lt Green	5.1	QM	
286	A	Ceiling	Rgt		F	Brick	White	-0.1	QM	
282	A	Door	Rgt	Casing	F	Metal	Lt Green	2.8	QM	
283	A	Door	Rgt	U Ctr	F	Metal	Lt Green	>9.9	QM	
Interior Room 068 Rm 011										
287	D	Wall	W Ctr		P	Stone	Black	-0.2	QM	
Interior Room 069 Rm 012										
290	A	Wall	W Ctr		F	Plaster	White	-0.2	QM	
291	A	Ceiling	Ctr		F	Plaster	White	-0.1	QM	
288	B	Wall	W Ctr		F	Plaster	White	-0.3	QM	
289	D	Wall	W Ctr		F	Plaster	White	0.0	QM	
Interior Room 070 Rm 013										
293	A	Wall	W Ctr		P	Plaster	Beige	0.0	QM	
292	A	Ceiling	Ctr		P	Plaster	Beige	-0.3	QM	
295	A	Door	Ctr	Casing	F	Wood	Stained	-0.3	QM	
294	C	Wall	W Ctr		P	Plaster	Beige	0.4	QM	
Interior Room 071 Rm 014										
298	A	Wall	W Ctr		P	Plaster	Lt Green	-0.4	QM	
299	B	Wall	W Ctr		P	Plaster	Lt Green	-0.6	QM	
300	C	Wall	W Ctr		P	Plaster	Lt Green	-0.5	QM	
301	C	Ceiling	Ctr		F	Plaster	White	0.2	QM	
296	D	Door	Ctr	Casing	P	Wood	Lt Green	-0.4	QM	
297	D	Door	Ctr	U Rgt	P	Wood	Lt Green	0.4	QM	
Interior Room 072 Rm 025										
304	B	Wall	W Ctr		F	Plaster	White	9.2	QM	
303	C	Wall	W Ctr		F	Plaster	White	9.0	QM	
302	C	Ceiling	Ctr		F	Plaster	White	8.4	QM	
Interior Room 073 Rm 015										
306	A	Wall	L Lft		P	Plaster	White	4.2	QM	
305	A	Wall	U Lft		P	Plaster	White	3.0	QM	
307	A	Ceiling	Lft		P	Plaster	White	2.1	QM	
Interior Room 074 Rm 017										
309	D	Wall	W Ctr		P	Plaster	Green	5.1	QM	
308	D	Ceiling	Ctr		P	Plaster	White	5.4	QM	
Interior Room 075 Rm 022										
310	B	Wall	W Ctr		P	Plaster	Green	3.4	QM	
311	B	Ceiling	Ctr		P	Plaster	White	3.8	QM	
Interior Room 076 Rm 022										
312	B	Wall	W Ctr		P	Plaster	Beige	3.8	QM	
Interior Room 077 Rm 023										
313	C	Wall	W Ctr		P	Plaster	Beige	4.4	QM	
Interior Room 078 Rm 024										

314 D Wall W Ctr P Plaster Beige 5.9 QM

Interior Room 079 Rm 019

315 A Wall W Ctr P Plaster Green 4.1 QM
321 A Door Lft Casing F Metal Green 4.1 QM
320 A Door Lft U Ctr F Metal Green 4.2 QM
318 A Door Rgt Casing F Metal Green 4.1 QM
319 A Door Rgt U Ctr F Metal Green 4.3 QM
316 C Wall W Ctr P Plaster Green 6.3 QM
317 C Ceiling Ctr F Plaster Green 3.6 QM

Interior Room 080 Rm 021

323 C Wall W Lft P Plaster Black -0.1 QM
324 C Wall W Ctr P Plaster Black 0.0 QM
325 C Wall W Rgt P Plaster Black 0.2 QM
322 C Door Lft Casing F Metal Green 4.3 QM

Interior Room 081 Rm 020

327 B Wall W Ctr P Plaster Black -0.3 QM
326 C Wall W Ctr P Plaster Black 0.4 QM
328 D Wall W Ctr P Plaster Black 0.3 QM
329 D Door Ctr Casing F Metal Green 0.4 QM

Calibration Readings

001 1.0 TC
002 1.0 TC
003 1.0 TC
004 0.1 TC
005 0.0 TC
006 -0.1 TC
217 0.0 QM
218 -0.4 QM
219 -0.4 QM
220 -0.3 QM
221 -0.5 QM
222 0.4 QM
330 1.0 TC
331 0.0 TC
332 0.0 TC
333 -0.1 TC
334 1.0 TC
335 1.0 TC
336 1.0 TC

---- End of Readings ----

1.3 Asbestos Abatement Work Plan

ASBESTOS ABATEMENT WORK PLAN

For

**Jackson County Historic Truman Courthouse
102 North Main Street
Independence, MO 64050**

Prepared for

**Jackson County Public Works Department
303 West Walnut Street
Independence, Missouri 64050**

**PSI PROJECT NUMBER 0603-477
JACKSON COUNTY PROJECT NO. 3147A**

April 16, 2012

Prepared by

**PROFESSIONAL SERVICE INDUSTRIES, INC.
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SECTION 1 – GENERAL REQUIREMENTS

1.1. Project Summary

This specification is for the abatement of asbestos-containing material (ACM) from the interior of the Jackson County Historic Truman Courthouse at 102 North Main in Independence, Missouri.

As relevant, asbestos abatement work shall be completed in conjunction and accordance with the Fungal Remediation, Lead-Based Paint Abatement and Selective Demolition Specifications.

1.2 Summary of Asbestos Containing Materials

The table below contains a summary of known ACM present in the building. Additional detail is provided in PSI's Asbestos Survey Report dated March 9, 2012, which is appended to this document.

Material	Location	Estimated Quantity	Results
9x9 Floor Tile and Mastic	Basement Jail Area	420 SF	Tile 2% Mastic Negative
12x12 White Floor Tile and Mastic	Archive Room	2,128 SF	Tile Negative Mastic 3%
12x12 Tan Floor Tile and Mastic	NW Section 1st Floor some under carpet	2,124 SF	Tile Negative Mastic 3%
Yellow Linoleum	1st Floor NE Section near Vault	8 SF	12%
Tan Linoleum	2nd Floor SE Section near Vault	8 SF	12%
Asbestos Board	Tunnel	300 SF	60%
Air Cell Pipe Cover on Steam Lines and Roof Drains	Basement, 1st Fl Perimeter walls, 2nd Fl Middle North & South walls, & Above East and West 2nd Fl ceilings	2,114 LF	50%
Air Cell Pipe Joints/Fittings on Steam Lines	Basement, 1st Fl Perimeter walls, 2nd Fl Middle Perimeter walls	489 EA	90%
Wrapped Paper Pipe Cover on Domestic Water Lines	Basement, 1st and 2nd FL Chases, and Attic	856 LF	15%

Wrapped Paper Joint Packing/Fittings on Domestic Water Lines	Basement, 1st and 2nd FL Chases, and Attic	155 EA	70%
Cork Pipe Cover	Basement and 1st floor chases	230 LF	<1%*
Elbows on Cork Pipe Cover	Basement and 1st floor chases	25 EA	<1%*

* Not considered as asbestos-containing, however should be considered as asbestos-containing in accordance with OSHA

1.3 General Outline of Scope of Work

The Asbestos Abatement Contractor (or Contractor) shall provide proper removal and proper disposal of asbestos-containing materials located in the Jackson County Historic Truman Courthouse, as indicated in this Project Manual. Activities by the Contractor shall be performed in accordance with applicable local, federal and state regulations.

- 1.3.1 Abatement shall be performed in accordance with the National Emission Standard for Asbestos (NESHAP), Title 40, Part 61, Subpart M (Revised Subpart B) of the Code of Federal Regulations and State of Missouri Code of State Regulations, Chapter 6.
- 1.3.2 Exact drop location(s) of dumpsters are to be determined in coordination with Jackson County Public Works.
- 1.3.3 Power and water will be provided by the Owner in accord with this Work Plan. The abatement contractor is responsible for providing ground fault circuit interrupters (GFCIs) and backflow preventers.
- 1.3.4 Demolition activities to access areas of ACM are to be completed by the Abatement Contractor in accordance with the Selective Demolition Specification provided.
- 1.3.5 Mold impacted and lead-based paint containing building components are present in the building, and all work shall be performed in conjunction with the corresponding mold and lead-based paint work plans provided.
- 1.3.6 The Jackson County Historic Truman Courthouse is a historic building and care is required to maintain historically significant areas of the building. The Selective Demolition Specification should be referenced to provide direction on allowable access points for abatement, as well as structural precautions necessary for work to be completed in the attic.

- 1.3.7 Reference the attached drawings for locations where ACM is to remain in place. They are generally as follows:
- Horizontal steam piping in ceiling above Truman Courtroom (1st Floor)
 - Wrapped domestic water line in ceiling above Truman Courtroom toilet/office area
 - Wrapped domestic water lines in ceiling above second floor, west of the brick dividing wall, as visible from attic space.
- 1.3.8 Abatement of mastic overlaying “battleship linoleum” on the first floor is to be conducted with a soy-based solvent, and gentle hand methods, so as to minimize potential damage to the “battleship linoleum” flooring.
- 1.3.9 Steam piping servicing radiators should be cut as far back from the radiator connection as possible, to preserve the potential re-use of the radiators.
- 1.3.10 Quantities provided are estimates only and the Contractor shall verify all quantities.

SECTION 2 – REGULATORY REQUIREMENTS

2.1. General

Requirements include contractor compliance with applicable laws, rules and regulations for the work. When Contractor observes that contract documents are at variance with specified codes, notify PSI in writing immediately.

When Contractor performs any work knowing or having reason to know that the work is contrary to such laws, rules, and regulations and fails to so notify the PSI prior to performing the work, Contractor shall pay costs arising there from.

2.2. Definitions & Abbreviations

2.2.1 Definitions

- Dates: Reference Codes, Regulations, and Standards are the issue current date of bidding documents unless otherwise specified.
- Codes: Codes are rules, regulations or statutory requirements of government agencies.
- Standards: Standards are requirements set by authorities, custom or general consent and established as accepted criteria.

2.2.2 Abbreviations

- | | |
|-----------|---|
| 1. AHERA | Asbestos Hazard Emergency Response Act |
| 2. ANSI | American National Standards Institute |
| 3. ASHRAE | American Society of Heating, Refrigeration and Air-Conditioning Engineers |
| 4. ASTM | American Society for Testing and Materials |
| 5. CPSC | Consumer Product Safety Commission (Federal) |
| 6. FED | Federal Agencies |
| 7. MDNR | Missouri Department of Natural Resources |
| 8. NESHAP | National Emission Standard for Hazardous Air Pollutant |
| 9. NFPA | National Fire Protection Association |
| 10. NIOSH | National Institute for Occupational Safety and Health |
| 11. OSFM | Office of State Fire Marshal |
| 12. OSHA | Occupational Safety and Health Administration |
| 13. Owner | Jackson County, Missouri |
| 14. UL | Underwriters Laboratories, Inc. |
| 15. USEPA | United States Environmental Protection Agency |

2.3. Quality Assurance

Ensure that copies of specified codes and standards are readily available to Contractor's personnel. Copies are available at Contractor's expense from source or publisher.

- Ensure that Contractor's personnel are familiar with workmanship and installation requirements of specified codes and standards.
- Ensure that an OSHA Competent Person is directing activities in accordance with applicable federal, state and local regulations.

2.4. Regulatory Requirement Sources

Source and requirements:

A. U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA), including but not limited to:

- A.1 Asbestos Regulations, Title 29, Part 1910, Section 1001 of the Code of Federal Regulations.
- A.2 Respiratory Protection, Title 29, Part 1910, Section 134 of the Code of Federal Regulations.
- A.3 Construction Industry, Title 29, Part 1926, Section 1101 of the Code of Federal Regulations.
- A.4 Access to Employee Exposure & Medical Records, Title 29, Part 1910, Section 20 of the Code of Federal Regulations.
- A.5 Hazard Communication, Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.
- A.6 Specifications for Accident Prevention Signs and Tags, Title 29, Part 1910, Section 145 of the Code of Federal Regulations

B. U.S. Environmental Protection Agency (USEPA) including but not limited to: Worker Protection Rule, 40 CFR Part 763, Subpart G, CPTS 62044, FLR 2843-9, Federal Register, Vol. 50, No. 134, 7/12/85 P28530-28540

- B.1 Regulation for Asbestos, Title 40, Part 61, Subpart A of the Code of Federal Regulations.
- B.2 National Emission Standard for Asbestos (NESHAP), Title 40, Part 61, Subpart M (Revised Subpart B) of the Code of Federal Regulations.
- B.3 Asbestos Hazard Emergency Response Act (AHERA), Title 40, Part 763 of the Code of Federal Regulations.
- B.4 Toxic Substance Control Act

C. U.S. Department of Transportation (DOT) including but not limited to:

- C.1 Hazardous Substances: Final Rule, Regulation 49 CFR, Parts 171 and 172.

D. State of Missouri including but not limited to:

D.1 State of Missouri Code of State Regulations – Chapter 6

2.5 Standards

- A. ANSI No. A. 17.1, American Standard Safety Code for Elevators, Dumbwaiters, Escalators and Moving Walks.
- B. ANSI No. C-2, National Electrical Safety Code,
- C. ASHRAE No. 62, Standard for Natural and Mechanical Ventilation
- D. ASHRAE No. 90.1-1989, Energy Conservation in New Building Design.
- E. ASHRAE No. 15, Safety Code for Mechanical Refrigeration.
- F. AWWA: Water and Sewer Main Construction.
- G. NFPA: National Fire Codes

SECTION 3 – Contractor Use of Premises

Contractor will provide and maintain specified temporary utilities for specified times during work period.

3.1. Contractor Provide

- Temporary water hookup with backflow protection to work areas from existing supply.
- Temporary electrical hookup to work areas from existing supply.
- Temporary ventilation inside work areas.
- Temporary lighting for work areas.
- Temporary service for own needs.
- Temporary fire detection and protection.

3.2. Furnished by Others

The Owner will pay costs of consumables used for construction purposes for utilities it furnishes. The contractor is to pay for the temporary electrical panel and backflow prevention.

- Electrical power service.
- Water service.

3.3. Definitions

- Temporary Enclosure: Sufficient enclosure of work area to prevent exhaust or venting of asbestos fibers outside of the work area in accordance with Missouri Department of Natural Resources, Air Quality Ordinance.
- Temporary Ventilation: Provision, operation and maintenance of approved portable fans, filters, and ductwork to provide negative air requirements of Missouri Department of Natural Resources, Air Quality Ordinance from start of actual abatement work until final clearance.

3.4. Description of Temporary Utility Systems

3.4.1 Ventilating System - Provide specified temporary ventilation in enclosed areas throughout abatement period in order to:

- Maintain negative pressure in work areas during abatement.
- Provide a minimum of four (4) air changes per hour within containments as required to meet MDNR Air Quality Ordinance.
- Provide adequate ventilation to meet health regulations for safe working environment.
- Prevent hazardous accumulations of dusts, fumes, mists, vapors or gases in areas occupied during abatement period.
- If present, provide ventilation for heat dissipation for equipment that may generate heat that are located in the containment area and are to maintain continued operation.

3.4.2 Duration of ventilating operations:

- Commence once abatement preparation operations have begun.
- Continue operation of ventilating system after cessation of work each day to assure sufficient and continuous negative pressure in work area.
- Contractor shall provide and maintain a manometer to monitor and record negative pressure differential.
- Continue ventilation until successful completion of final clearance air monitoring.

3.4.3 Electrical system:

- Provide and maintain secondary power centers from Owner provided electric power system for construction needs throughout asbestos abatement period.
- Provide circuit protection for each circuit.
- Provide ground fault protection for each circuit.
- Contractor using the secondary power centers shall provide their own grounded UL listed extension cords and other accessories from secondary power centers to the point of operation.
- Provide service connections for:
 - Temporary lighting
 - Temporary ventilating
 - Miscellaneous hand tools and equipment
 - Plumbing
 - Testing and inspecting equipment

3.4.4 Lighting - Provide temporary lighting for:

- Abatement needs.
- Safe working conditions throughout project.
- Safety lighting.
- Security lighting.

3.4.5 Water Service:

- Provide and maintain water service throughout abatement period, for abatement purposes.
- Contractor shall provide a service connection to the work areas.
- Contractor shall provide water hoses and hose bibs to point of his operations.
- Provide backflow protection.
- Provide protection from freezing.

3.5 Fire Protection/Detection

Provide and maintain fire protection and detection in accordance with applicable local and state codes. Contractor is to provide necessary equipment including, but not limited to:

- Fire extinguishers

SECTION 4 – ASBESTOS ABATEMENT

4.1 General

The Asbestos Abatement Contractor (or Contractor) shall provide proper removal and proper disposal of asbestos-containing materials located in the Jackson County Historic Truman Courthouse. Activities by the Contractor shall be performed in accordance with applicable local, federal and state regulations.

4.2 General Notes

- Abatement shall be performed in accordance with the National Emission Standard for Asbestos (NESHAP), Title 40, Part 61, Subpart M (Revised Subpart B) of the Code of Federal Regulations.
- Asbestos abatement
- Exact drop location(s) of dumpsters are to be determined in coordination with the Jackson County Public Works.
- Power and water may be obtained from the existing facility.
- Construct a three-chamber, with airlocks in-between each chamber, attached “wet” decontamination unit for friable gross removal abatement. Construct a three-chamber, with airlocks in-between each chamber, remote “wet” decontamination unit for non-friable and glovebag removal operations. Construct a two-chamber waste adjacent to gross removal work areas.
- Demolition to access ACM materials is to be performed by the abatement contractor, in accordance with the Selective Demolition Specification.
- The Jackson County Historic Truman Courthouse is a historical building and care should be taken during the abatement work to not cause damage to interior finishes (i.e. water damage or physical damage to existing woodwork, floorings, doors, windows, etc.).

4.3 Field Quality Control

4.3.1 Jackson County:

Employ an Asbestos Air Sampling Professional (ASP) and/or Asbestos Air Sampling Technician (AST) to perform the duties and responsibilities referenced in the State of Missouri Air Quality Ordinance.

4.3.2 Contractor

- Employ a full-time MDNR-licensed Asbestos Supervisor to perform the duties and responsibilities and serve as the OSHA Competent Person in accordance with 29 CFR 192.6.1101. The contractor’s supervisor will be responsible for the performance of the project.
- Employ full-time MDNR-licensed Asbestos Workers to perform the removal of the ACM listed in the Scope of Work.
- Maintain records of air monitoring of own personnel in accordance with OSHA 29 CFR 1926.1101. Provide a copy of results to the ASP/AST within twenty-four (24) hours.

- Provide proper respiratory protection and protective clothing for contractor personnel in accordance with OSHA 29 CFR 1926.1101 and OSHA 29 CFR 1910.134.
- The supervisor shall assist or accompany the ASP/AST during any inspections as requested.
- Collect personal samples using an independent testing firm in accordance with OSHA 29 CFR 1926.1101 for the contractor.
- The minimum number of samples taken daily will include, one excursion limit (EL) and one 8-hour time-weighted average (TWA) for each classification of work on a minimum of 25% of the work force.
- Pay any additional costs that arise from failure of final clearance testing and may include costs for services of ASP/AST, laboratory or PSI.
- Appropriate regulatory agencies, the Owner or the APM may issue emergency stop work orders to the Contractor.

4.4 Submittals

Make submittals in accord with these specifications to PSI.

- Submit documented evidence that each person, including contractor's supervisor, performing any work involving asbestos holds current and valid Missouri licenses and accreditation certificates.
- Submit documented evidence of current medical surveillance records.
- Submit documented evidence of respirator training and current fit test.
- Submit updated construction schedule.

4.5 Project/Site Conditions

The Contractor shall provide for the proper removal and proper disposal of asbestos-containing materials in accordance with applicable local, federal and state regulations. A description of the project is provided in Section 1. Asbestos waste generated shall be disposed of in accordance with Federal, State and local regulations. The areas where abatement is to be performed will be unoccupied by Jackson County at the time of the abatement work.

4.6 Stop Work

MDNR, Owner, PSI or other local, state or federal agency may issue a stop work order to the contractor in the event that work activities are observed that are not in compliance with applicable regulations and this Project Manual.

- Written notification of the stop work order will be provided to the contractor with 24 hours.
- Work may not resume until the observed condition has been corrected.
- Contractor will perform corrective action in a time frame agreed upon by the Owner, PSI and appropriate regulatory agencies, as appropriate.
- Costs incurred, including any testing, permits, materials or other costs, associated with any delay due to the stop work order shall be paid for by the Contractor.

4.7 Products/Equipment

4.7.1 Asbestos Abatement Equipment

- Use only materials and equipment complying with the State of Missouri Air Quality Ordinance and as specified herein.

4.7.2 Manufacturers/Products

- Wetting Agent - (amended water) that is non carcinogenic, non toxic and is not an irritant to the eyes, skin, or respiratory system.
- Post Removal Encapsulant –that is non carcinogenic, non toxic and is not an irritant to the eyes, skin, or respiratory system and forms a bridging seal over solid surfaces.
- Mastic Remover - Mastic removers must have a flash point greater than 200° F and lower explosive limit greater than 5%.
 - Soy-based mastic removers to be used on the first floor where ACM mastic overlays the “battleship linoleum”. Care should be taken to preserve the “battleship linoleum” during the ACM abatement.

4.8 Work Area Preparation

If necessary, corridors, doorways, and cased openings not to be used for passage during abatement shall be sealed with barriers constructed with fire retardant wood or metal framing faced with 1/2" minimum fire retardant plywood applied to the work area side of the barrier. Barriers shall extend from the floor to within six inches of the ceiling, but need not exceed a height of eight (8) feet from the floor. Access for abatement workers through the barrier may be accomplished by installing a lockable door in the barrier.

- Establish regulated areas and restrict access to the site.
- Post appropriate warning signs at all entryways into the work area.
- Assist PSI in obtaining necessary background air samples.
- Coordinate with the building representative the shutdown of electrical power, lighting and ventilation systems serving the work area.
- Coordinate with the building representative the connection of temporary electrical power for the work area.
- Seal ventilation openings and fixed equipment within the work areas with two (2) layers of 6-mil polyethylene sheeting.
- Install critical barriers on penetrations, windows, doors, fixtures, equipment, or remaining furnishings with one layer of 6-mil polyethylene sheeting.
- Perform pre-cleaning of surfaces within the work areas using wet wiping and HEPA vacuums.
- Install HEPA-filtered air filtration equipment in a manner that will continuously filter air from within the work area. Capacity should be sufficient to filter the entire volume of air within the containment every 15 minutes or less.

- Air filtration equipment shall establish and maintain a flow of air into the work area from all adjacent areas, as demonstrated by smoke producing tubes or other appropriate means. This test should be performed daily, with results available for inspection by the appropriate inspection agency.
- The air filtration system shall exhaust to the outside of the building through a duct installed in the plastic sheeting. Ducts shall be completely sealed, in good repair, and protected from possible damage within the work area.
- Cover all surfaces, except floor with plastic sheeting that is at least 4-mil thick. Affix wall sheeting in a manner that ensures it will remain in place for project duration. Based on the quantity of pipe and pipe fitting insulation to be removed, the abatement contractor will need to obtain a waiver from the State of Missouri on the use of wall and ceiling poly sheeting, otherwise, the abatement contractor shall prepare the area in accordance with full-containment requirements.
- In areas of floor tile and/or mastic removal, the contractor shall install 6-mil poly sheeting on the walls as splash guards extending a minimum of four feet up from the floor. This method of containment assumes that the floor tile and/or mastic remain non-friable during removal. Provide one (1) layer of 6-mil poly to be used as a drop cloth to cover floors below areas where asbestos-containing pipe and pipe fitting insulation is to be removed.
- Construct a three (3) chamber "wet" decontamination enclosure system, with appropriate airlocks for worker decontamination between the work area and adjacent areas. Each chamber shall have a doorway covered by a control curtain.
- Individuals entering the work area must first pass through a clean room free of asbestos contamination.
- From the clean room, workers shall pass into the shower room. Individuals exiting the work area must shower before entering the clean room. The shower room shall contain at least one shower head, supplied with hot and cold water, and adequate supplies of soap and shampoo. Shower enclosures shall be leakproof, opaque, and constructed of disposable or easily washable material.
- Individuals exiting the work area must first pass through the equipment room to temporarily store contaminated tools, equipment, and protective clothing used in the work area. 6-mil thick plastic sheeting shall line the floors and walls of the equipment room.
- A waste load out area shall be constructed between the work area and the exit. Asbestos containing waste and asbestos contaminated equipment shall pass from the work area to appropriate receptacles outside the work area through the waste load out area. The entryway between the work area and the load out area shall consist of both a control curtain and rigid door or two control curtains separated by at least 3 feet. The floor shall be 6-mil thick poly.

- Post caution signs in and around the work area to comply with OSHA regulation 29 CFR 1926.1101 and in compliance with applicable Federal, State, and local requirements.

4.9 Work Practices

- Personnel entering the regulated areas shall don appropriate personal protective clothing and equipment. Contractors shall comply with OSHA regulations referencing respirator selection, PPE and HazCom.
- Respirators:
 - Air inside protective respirator shall be maintained at less than 0.01 f/cc.
 - Contractor shall accomplish Class I work with a minimum of Power Air Purifying respiratory (PAPR) protection unless a documented Negative Exposure Assessment (NEA) is provided and accepted by PSI prior to beginning any work. Prep work may be accomplished utilizing ½ mask respirators equipped with HEPA cartridges. If during gross removal work, the personal and inside work area air samples sufficiently document airborne fibers levels <0.1 f/cc, then, upon approval by PSI, the contractor may reduce respiratory protection to ½ mask respirators with HEPA filters.
- Upon completion of work area preparation and before work is to begin, notify PSI that the work area is ready for inspection. The Contractor shall not begin abatement work until PSI has inspected the area and any deficiencies have been corrected.
- REMOVAL: For asbestos-containing materials designated within this Project Manual to be removed, perform removal by gross removal methods in accordance with OSHA regulations for Class I and II work, as appropriate. Wet methods shall be used for removal of ACM. The Abatement Contractor may use glovebag removal procedures in lieu of gross removal as long as a waiver has been submitted and accepted by PSI and the local regulatory agency governing this project. If glovebag procedures are utilized, the Abatement Contractor must follow the procedures listed in the manufacturer's written instructions.
- Spray asbestos-containing material with amended water, using spray equipment capable of providing a "mist" application to reduce the release of fibers. Saturate the material sufficiently to wet it to the substrate without causing excessive dripping. The use of high RPM power equipment, pressure washers, or hydro blasters shall not be acceptable. Remove the saturated asbestos material in small sections. Material shall not be allowed to dry before placing in sealable polyethylene bags of 6-mil minimum thickness. ACM shall be removed completely. Nylon fiber brushes shall be used to clean asbestos fibers from rough surfaces. Any contaminated material capable of puncturing the polyethylene bags shall be packaged separately.

- Maintain work areas free of accumulated asbestos-containing materials. Keep waste materials wet until enclosed in sealed plastic bags. Seal polyethylene bags airtight with adequate wetness inside the bag. Ensure that contaminated materials are double-bagged to yield a minimum covering of 12 mils before removal from the work area and that bags are sealed in a goose-neck style. Move the bagged material to the wash-down station, clean and properly label before removing to the on-site waste dumpster.
- **FIRST CLEAN:** Remove polyethylene drop cloths and any visible accumulations of asbestos-containing materials and debris by HEPA vacuums, sponging, etc. Wet clean surfaces within the work area and either clean or remove and dispose of inner layer or plastic sheeting. The entire work area shall be totally, visibly clean and bagged waste shall have been removed from the work area and placed in the disposal dumpster.
 - Visual Inspection: PSI shall inspect the work areas and grant First Clean if acceptable or request additional cleaning if necessary. If determined to be acceptable, then the First Clean shall be considered as Final Clean.
- **TEST FOR FINAL CLEARANCE** – Following final clean, PSI shall obtain final aggressive clearance samples in accordance with NIOSH Method 7400 for PCM analysis in accordance with the following requirements:
 - **Final Clearance Criteria: Final clearance in a work area is achieved when each inside air sample has a result less than or equal to 0.01 f/cc.**
 - **Flow Rate: Minimum 1 L/MIN, Maximum 15 L/MIN**
 - **Volume: Minimum 1,200 L**
 - **Inside Work Area Samples: Minimum 2 for containments less than 1,000 square feet in area, minimum 5 for containments greater than 1,000 square feet in area.**
- **Field Blanks: 2 samples**
- If final air testing produces results of less than the required levels, the vent, register, door, and other seals may be removed and the room wet wiped and HEPA vacuumed. The area may then be turned back over to the Owner or the general contractor.

4.10 Certificate of Visual Inspection

The following Certification of Visual Inspection Form shall be completed by the Contractor following the completion of removal work in each designated area for removal, cleanup and his/her visual inspection of the work area. The completed Certification of Visual Inspection Form shall be provided to PSI.

CERTIFICATION OF VISUAL INSPECTION FORM

CONTRACTOR CERTIFICATION

Building: _____

Project Number: _____

Specific Area: _____

The Contractor hereby certifies that he/she has visually inspected the work area (including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc.) and has found no dust, debris, or residue.

By: (Signature) _____ Date: _____

(Print Name) _____ Title: _____

Company Name: _____

PSI'S CERTIFICATION

PSI's representative hereby certifies that he has accompanied the Contractor on his visual inspection and verifies that this inspection has been thorough and to the best of his knowledge and belief, the Contractor's certification above is a true and honest one.

The final air sampling for contract compliance has been completed. _____ Samples were collected for final clearance. Samples were analyzed by (TEM/PCM).

By: (Signature) _____ Date: _____

(Print Name) _____ Title: _____

Company Name: Professional Service Industries, Inc. (PSI)

4.11 Disposal

Perform preparation work in accord with MDNR Air Quality Ordinance

- Disposal bags shall be properly labeled in accordance with EPA, DOT and OSHA. Additionally, label bags or containers containing asbestos debris as follows:

**Jackson County Historic Truman Courthouse
102 North Main Street
Independence, MO 64050**

- Whenever trucks or dumpsters are being loaded or unloaded with asbestos waste, post in accordance with the NESHAP Standard - DANGER, ASBESTOS DUST HAZARD, CANCER AND LUNG DISEASE HAZARD, AUTHORIZED PERSONNEL ONLY.
- Waste shall be transported in enclosed roll-offs or dumpsters or vehicles that have completely enclosed cargo areas.
- Transport waste to a MDNR approved landfill. Complete a waste shipment record for each load of waste in accordance with the NESHAP Standard. Return the record, signed by waste disposal site owner/operator to PSI **within 10 working days upon receipt of completely executed waste shipment record**

ATTACHMENT A – PSI ASBESTOS SURVEY REPORT

March 9, 2012

Jackson County Public Works: Facilities Department
303 West Walnut Street
Independence, Missouri 64050

Attn: Mr. Jerry Page, P.E.
Director of Public Works and Facilities Management

RE: Asbestos Survey Report
Jackson County Historic Court House
112 West Maple
Independence, Missouri 64050
PSI Report Number 0603477-1

Dear Mr. Page:

In accordance with our agreement dated December 15, 2011, Professional Service Industries, Inc., (PSI) has conducted an asbestos survey for the above-referenced project.

Please find one (1) hard copy and one (1) electronic copy of the final report enclosed.

We appreciate the opportunity to provide our services to you on this project and would be pleased to continue our role as your environmental consultant. PSI is prepared to assist in preparing management plans, abatement plans and specifications, in reviewing contractor qualifications, in performing third party air monitoring, or in monitoring abatement activities. If we can be of further assistance to you please feel free to contact us.

Respectfully submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.



John Starr
Project Specialist



Sherri Jones
Department Manager



Scott J. Dahlgren
Principal Consultant

Enclosures

ASBESTOS SURVEY REPORT



For the

**JACKSON COUNTY HISTORIC COURT HOUSE
112 MAPLE
INDEPENDENCE, MISSOURI 64050**

Prepared for

**PIPER-WIND ARCHITECTS, INC.
2121 CENTRAL STREET
KANSAS CITY, MISSOURI 64108**

A handwritten signature in blue ink, appearing to read "John Starr", written over a horizontal line.

John Starr
Project Specialist

Prepared by

**Professional Service Industries, Inc.
1211 West Cambridge Circle Drive
Kansas City, Kansas 66103
Telephone (913) 310-1600**

A handwritten signature in blue ink, appearing to read "Sherri Jones", written over a horizontal line.

Sherri Jones
Department Manager

A handwritten signature in blue ink, appearing to read "Scott J. Dahlgren", written over a horizontal line.

Scott J. Dahlgren
Principal Consultant

PSI REPORT NUMBER 0603477-1

March 9, 2012

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1.0 INTRODUCTION

1.1 GENERAL INFORMATION

PSI was retained by Piper-Wind Architects, Inc. to conduct a survey for suspect ACM at the Jackson County Historic Court House, located at 112 West Maple in Independence, Missouri.

This project, the field work for which was conducted on multiple days in February 2012, encompassed an approximately 33,500 square foot, four (4) story building including a basement and attic.

This report has been prepared for the exclusive use of Piper-Wind Architects, Inc. and Jackson County, Missouri.

1.2 AUTHORIZATION

Authorization to perform the assessment was given by the receipt of a signed copy by PSI of PSI Proposal Number 0603-56868, dated December 15, 2011, between Piper-Wind Architects, Inc. and PSI.

Access to the property was provided by Eric Piper of Piper-Wind Architects, Inc.

1.3 DOCUMENTS PROVIDED BY THE CLIENT

The following table lists the material and information provided for this project:

Description of Material	Provider/Source
Drawings – 1933 Building Plans	Piper-Wind
Tetra Tech - May 4, 2009 Report	Piper-Wind

1.4 USE BY THIRD PARTIES

This report was prepared pursuant to the contract PSI has with Piper-Wind Architects, Inc. That contractual relationship included an exchange of information about the property that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than Piper-Wind Architects, Inc., for whom it was prepared, and Jackson County, Missouri, is prohibited and therefore not foreseeable to PSI.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to PSI's contract with Piper-Wind Architects, Inc. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

Third party reliance letters may be issued on request and upon payment of the, then current fee for such letters. All third parties relying on PSI's reports, by such reliance, agree to be bound by the proposal and PSI's General Conditions. No reliance by any party is permitted without such agreement, regardless of the content of the reliance letter itself.

2.0 SCOPE OF SERVICES

The survey of the facility was conducted in general accordance with the Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) and the National Emissions Standard for Hazardous Air Pollutants (NESHAP) sampling guidelines to determine the presence of exposed and/or physically accessible suspect ACM, identify the location of ACM or assumed ACM, quantify the amount of ACM identified during the inspection, assess the identified ACM per the AHERA protocol, and provide photographic documentation of each homogenous area. Each suspect material was touched, where possible, to determine the friability of the material. Samples were obtained only from suspect asbestos-containing materials which were readily exposed and/or physically accessible during the inspection.

Samples were sent to PSI's National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory located in Pittsburgh, Pennsylvania, for analysis. Each sample underwent polarized light microscopy (PLM) analysis for detection of asbestos fibers in the building materials on a "positive stop" basis, which is defined as follows: if the first sample in the sample group has an analysis indicating that the material contains asbestos at a concentration greater than 1%, then the other samples in the group are not analyzed.

3.0 METHODOLOGY

3.1 GENERAL REFERENCES

Survey, sampling, analysis, and assessment procedures were performed in general accordance with the guidelines published by the EPA in 40 CFR Part 763 Subpart E, October 30, 1987 and NESHAP regulation (40 CFR Part 61, April 6, 1973, revised 1990).

3.2 VISUAL INSPECTION

The visual survey was performed by an EPA accredited and State of Missouri licensed inspector, a copy of whose credentials is included as Appendix D. An initial building walkthrough was conducted to determine the presence and condition of suspect materials which were physically accessible and/or exposed. Materials which were similar in general appearance were grouped into homogeneous areas. In addition, the friability of the suspect material was determined. A material is defined as friable (F) if the material can be reduced to a powder by hand pressure when dry. Non-friable (NF) materials that are damaged can also be considered friable.

Although PSI investigated a limited number of void spaces in an attempt to identify all areas of ACM, an exhaustive investigation of void spaces was not possible without causing extensive damage to currently intact building finishes. There may exist conditions which were unable to be identified within the scope of this study.

During the limited investigation of void spaces, PSI drilled two (2) small holes in the ceiling of the first floor, near the locations of steam line piping. PSI inserted a borescope, equipped with a camera into the ceiling holes and was able to visually verify that confirmed ACM pipe covering and pipe fittings were present on the steam lines in the ceiling between the first and second floors. Based upon this observation, PSI believes that similar ACM pipe covering and fittings are present on the steam lines within the inaccessible void spaces.

Insulated portions of the domestic water lines were able to be viewed from the basement (east end) through an opening in the plaster ceiling. Additionally, insulated portions of the domestic water line were able to be viewed via accessible pipe chases on the first and second floors. Based upon these observations, PSI believes that similar confirmed ACM pipe covering and pipe fittings are present on the domestic water lines throughout the inaccessible void spaces.

The northern portion of the crawl space in the basement was not accessible. However, PSI was able to view confirmed ACM pipe covering and fittings on both steam and domestic water lines entering and exiting from the crawl space. Based upon these observations, PSI believes that confirmed ACM pipe covering and fittings are present on both domestic and steam piping in the northern portion of the crawl space. Additionally, on the accessible southern portion of the crawl space, PSI observed ACM debris on the ground below the piping. Based upon this observation, PSI believes the piping in the northern portion of the crawl space also has associated ACM debris on the ground.

PSI utilized the original 1933 plans of the existing building drawings provided by Piper-Wind Architects, Inc. to calculate estimated quantities of ACM pipe covering and fittings, within the inaccessible void spaces.

3.2.1 Homogeneous Area Classifications

A preliminary walkthrough of the building was conducted to determine areas of materials which were visually similar in color, texture, general appearance, and which appeared to have been installed at the same time. Such materials are termed "homogeneous areas" (HA) by the EPA AHERA regulation. During this walkthrough, the approximate locations of these homogeneous areas were also noted. Only materials which were physically accessible and/or exposed and suspected to contain asbestos were identified and placed in homogenous areas.

Following the EPA AHERA inspection protocol, each identified homogeneous area was placed in one of the following AHERA classifications for the purposes of determining the number of samples to collect:

- **Surfacing Materials** (spray or trowel applied to building members)
- **Thermal System Insulation (TSI)** (materials generally applied to various mechanical systems)
- **Miscellaneous Materials** (any materials which do not fit either of the above categories)

In the NESHAP regulation, a regulated asbestos-containing material (RACM) is defined as any (a) Friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable asbestos-containing material (ACM) that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Following the EPA NESHAP inspection protocol, each identified suspect homogeneous material was also placed in one of the following NESHAP classifications:

- **Friable Materials** NESHAP defines a friable ACM as any material containing more than one percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.
- **Category I Non-friable** NESHAP defines a Category I non-friable ACM as packing, gaskets, resilient floor covering (except vinyl sheet flooring products which are considered friable), and asphalt roofing products which contain more than one percent asbestos.
- **Category II Non-friable** NESHAP defines a Category II non-friable ACM as any material, except for a Category I non-friable ACM, which contains more than one percent asbestos and cannot be reduced to a powder by hand pressure when dry.

3.3 SAMPLING PROCEDURES

Following the walkthrough, the inspector collected selected samples of exposed and/or physically accessible materials identified as suspect ACM. Sampling was limited to those physically accessible materials not involving destruction of walls, other building elements,

physical barriers, or the structural integrity of the item being tested. Limited intrusive investigation of void spaces was conducted to identify the presence of suspect ACM.

EPA guidelines were used to determine the sampling protocol. Sampling locations were chosen to be representative of the homogeneous area.

Samples of surfacing material, if present, were collected in general accordance with the EPA random sampling protocol outlined in the EPA publication, "Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials" (EPA 560/5-85-030a, October, 1985). The homogeneous area was divided into a grid of nine (9) sub-areas. If nine samples were taken, one sample was taken from each sub-area. If less than nine samples were taken, the EPA random numbering diagram was used to determine which sub-areas would be sampled. While an effort was made to extract the samples from approximately the middle of the sub-area, samples were taken preferentially from already damaged areas or areas which were the least visible.

Samples of TSI and miscellaneous materials were taken as randomly as possible while again attempting to sample already damaged areas so as to minimize disturbance of the material.

3.4 LABORATORY PROCEDURES

3.4.1 Method of Analysis

Bulk samples were analyzed by PLM with dispersion staining as described by EPA Method 600/R-93-116 (Asbestos in Bulk Building Materials). This is a standard method of analysis in optical mineralogy and the currently accepted method for the determination of asbestos in bulk samples. The microscopist visually estimated relative amounts of each constituent by determining the volume of each constituent in proportion to the total volume of the sample, using a stereoscope. Then a bulk sample is mounted on a slide, immersed in a solution of known refractive index and subjected to illumination by polarized light. The samples were analyzed for asbestos (chrysotile, amosite, crocidolite, anthophyllite, and actinolite/tremolite), fibrous non-asbestos constituents (mineral wool, paper, etc.) and nonfibrous constituents. Asbestos was identified by refractive indices, morphology, color, pleochroism, birefringence, extinction characteristics, and signs of elongation. The same characteristics were used to identify the non-asbestos constituents.

It should be noted that some ACM may not be accurately identified or quantified by PLM. As an example, the original fabrication of vinyl floor tiles routinely involved milling of asbestos fibers to extremely small sizes. As a result, these fibers may go undetected under the standard PLM method. Transmission Electron Microscopy (TEM) is typically recommended for a more definitive analysis of these materials. TEM analysis was not in the scope of this investigation and is not recommended at this time.

3.4.2 Laboratory Quality Control Program

The PSI Laboratory in Pittsburgh, Pennsylvania, maintains an in-house quality control program. This program involves blind reanalysis of ten (10) percent of all samples, precision and accuracy controls, and use of standard bulk reference materials. In addition, the PSI Laboratory is accredited by NVLAP, which also has quality control procedures inherent in its program.

3.5 QUANTIFICATION

Quantities of physically accessible and/or exposed suspect asbestos-containing materials were estimated. This estimation was performed by taking approximate measurements in the field or estimating quantities based on as-built mechanical or structural drawings. Materials such as pipe insulation and associated mudded joint packing (MJP) were categorized according to the outside diameter of the insulation. Pipe lagging was quantified by linear footage while the actual number of MJPs was counted. Insulation on mechanical equipment such as boilers and ductwork was quantified by the square footage of the surface area of suspect insulation. Similarly, fireproofings, plasters, ceiling and floor tiles, and transite panels were measured in square feet of surface area. The quantities of ACM that were identified during this investigation are reported in Section 4 of this report.

Quantities are estimates, are intended as order of magnitude information or for general policy discussions. For the purposes of abatement, abatement contractors should complete their own field verification of quantities.

3.6 PHOTOGRAPHY

Photographs of homogenous areas were taken during the course of this investigation. While these photographs were not intended to provide a complete record of the investigation, they do provide a visual description of the homogenous area. Photographs of homogenous areas are intended to depict a representative portion of that homogenous area. Photographs are included in Appendix C.

4.0 ASBESTOS SURVEY FINDINGS

4.1 GENERAL SUMMARY

ACMs were identified in this facility. A material is considered by the EPA and/or State of Missouri to be asbestos-containing if at least one sample collected from the homogenous area contains asbestos in an amount greater than 1%. Field survey data sheets are included as Appendix A. Please refer to Appendix B for copies of the laboratory analytical reports.

4.2 BUILDING SPECIFIC SUMMARY

4.2.1 Summary of Sampled Suspect Building Materials

The following suspect asbestos-containing materials were sampled during the course of this survey and submitted for laboratory analysis. This table is a summary of the analytical results of this survey. Materials in **bold** are considered to be ACM.

HA Designation	Sample Numbers	Description	General Location	Asbestos, % and type	F/N F	Approx. Quantity
A	1, 2	9" x 9" Vinyl Floor Tile/ Mastic	Basement - Jail Area	2% Chrysotile/ NAD	Cat. I NF	420 ft ²
B	3, 4	12" x 12" White Vinyl Floor Tile / Black Mastic	Historical Society, 1 st Floor SW Section	NAD / 3% Chrysotile	Cat. II NF	2,128 ft ²
C	5, 6	12" x 12" Tan Vinyl Floor Tile / Black Mastic	NW Section 1 st Floor under Carpet	NAD / 3% Chrysotile	Cat. II NF	2,124 ft ²
D	7, 8	12" x 12" Brown Vinyl Floor Tile / Black Mastic	Throughout	NAD/NAD	NF	200 ft ²
E	9, 10, 11	Yellow Linoleum/ Brown Linoleum	1 st Floor East End Near Vault	NAD/12% Chrysotile	F	8 ft ²
F	12, 13, 14	Tan Linoleum	2 nd Floor East End Near Vault	12% Chrysotile	F	8 ft ²
G	15, 16, 17	Asbestos Board	Basement Tunnel	60% Chrysotile	F	300 ft ²
H	18, 19, 20	Air Cell Pipe Cover on Steam Lines and Associated Debris	Throughout	50% Chrysotile	F	2,114 lf 1,500 ft ²
I	21, 22, 23	Mudded Joint Packing on Air Cell Pipe Cover on Steam Lines	Throughout	90% Chrysotile	F	489 each
J	24, 25, 26	Wrapped Paper Pipe Cover on Domestic Water Lines	Throughout	15% Chrysotile	F	856 lf
K	27, 28, 29	Mudded Joint Packing on Wrapped paper Pipe Cover on Domestic Water Lines	Throughout	70% Chrysotile	F	155 each
L	30, 31, 32	Cork Pipe Cover on Domestic Water Lines	Throughout	<1%	Cat. II NF	230 lf
M	33, 34, 35	Elbow on Cork Pipe Cover on Domestic Water Lines	Throughout	<1%	Cat. II NF	25 each
N	36, 37, 38, 39, 40, 41, 42	Plaster	Throughout	NAD	NF	80,000 ft ²

HA Designation	Sample Numbers	Description	General Location	Asbestos, % and type	F/N F	Approx. Quantity
O	43, 44, 45	2' x 2' Worm Pattern, Drop Ceiling Tile	Historical Society, 1 st Floor SW Section and stored in Basement	NAD	F	2,228 ft ²
P	46, 47, 48	2' x 2' Rough Pattern, Drop Ceiling Tile	NW Section 1 st Floor	NAD	F	448 ft ²
Q	49, 50, 51	Drywall and Joint Compound	1 st and 2 nd Floor	NAD	NF/F	1,600 ft ²
R	52, 53, 54	Black Flooring	1 st and 2 nd Floor Hallways	NAD	NF	850 ft ²
S	55, 56, 57	Brown Flooring	1 st and 2 nd floor Hallways	NAD	NF	1,300 ft ²
T	58, 59	4" Brown Cove Base / Mastic	Historical Society, 1 st Floor SW Section	NAD / NAD	NF	350 lf
U	60, 61	6" Brown Cove Base / Mastic	1 st Floor NW Section	NAD / NAD	NF	150 lf
V	62, 63, 64	1' x 1' Ceiling Tile	2 nd Floor West End	NAD	F	950 ft ²
W	65, 66, 67	Glue Dots (under 1' x 1' Ceiling Tile)	2 nd Floor West End	NAD	NF	950 ft ²
X	68, 69, 70	2' x 4' Drop in Ceiling Tile	2 nd Floor	NAD	F	3,000 ft ²
Y	71, 72, 73	Roofing	Attic – Second Roof	NAD	NF	5,800 ft ²
Z	74, 75, 76	Carpet Mastic	1 st and 2 nd Floors	NAD	NF	12,960 ft ²
AA	77, 78, 79	Dark Brown Flooring	1 st and 2 nd Floor Rooms	NAD	NF	12,960 ft ²
BB	80, 81, 82	2' x 4' Pinhole Pattern Drop Ceiling Tile	Room 106	NAD	F	160 ft ²

*NAD= No Asbestos Detected; Cat. I NF = Category I Non-Friable; Cat. II NF = Category II Non-Friable;

4.2.2 Unaccessed Areas

Some areas could not be surveyed due to the reasons described below. Such areas should be surveyed prior to renovation, demolition, or any activity which might disturb materials contained within these spaces in order to determine whether suspect asbestos-containing materials are present.

Area Not Accessed	Reason
Room 118	This is a vault that could not be opened

If additional suspect materials not documented in this report are encountered during work activities, the material should be considered asbestos-containing unless bulk sampling is performed and laboratory analysis proves otherwise.

Category I non-friable asbestos-containing material may often be left in place during renovation or demolition if not made friable by cutting, grinding or sanding. If left in place, these materials cannot be recycled or used as clean fill.

Friable ACM (RACM) or Category II non-friable materials must be properly removed by a licensed asbestos abatement contractor prior to renovations or demolition that would disturb the material. Federal, State and Local regulations and guidelines should be strictly adhered to when removing the ACM.

5.0 WARRANTY

Professional Service Industries, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of physically accessible and/or exposed suspect asbestos-containing materials in the facility at the time of the survey. Test results are valid only for the material tested. The results reported herein are considered sufficient in detail and scope, as limited by the agreed upon contract, to determine the presence of suspect asbestos-containing materials that were exposed and/or physically accessible in the facility at the time of the survey.

There is a distinct possibility that conditions may exist which could not be identified within the scope of study or which were not apparent during the site visit. This inspection covered only those areas which were exposed and/or physically accessible to the inspector. The study is also limited to the documents provided by the client, as outlined in Section 1.3.

The sampling methods utilized by PSI in performing its services may result in the disturbance or dispersal of mold spores. The client acknowledges that mold is ubiquitous to the environment with mold amplification occurring when building materials are impacted by moisture. Client further acknowledges that site conditions are outside of PSI's control, and that mold amplification will likely occur, or continue to occur, in the presence of moisture. As such, PSI cannot and shall not be held responsible for the occurrence or reoccurrence of mold amplification.

No other warranties are implied or expressed.

APPENDIX A
FIELD INSPECTION DATA WORKSHEETS

BULK SAMPLE LOG

Client: Piper-Wind Architects, Inc.
 Inspector: John Starr

Project Number: 0603477-1
 Date: 2-16-12

HA #	SAMPLE #	MATERIAL DESCRIPTION (include type of material, color, size)	MATERIAL LOCATION (all areas where material is present)	SAMPLE LOCATION	F/NF	COND (G,F,P)	QTY (sf/lf/ea)
A	1 2	9x9 Vinyl Floor Tile/Mastic	Basement Jail Area	Basement Jail Area	NF	P	420 SF
B	3 4	12x12 White Vinyl Floor Tile/Mastic	Historical Society, 1 st Floor SW Section	Historical Society, 1 st Floor SW Section	NF	F	2,128 SF
C	5 6	12x12 Tan Vinyl Floor Tile/Mastic	NW section 1 st Floor, Some under carpet	NW section 1 st Floor	NF	F	2,124 SF
D	7 8	12x12 Brown Vinyl Floor Tile/Mastic	2 nd Floor Women's Restroom, Outside Court Room	2 nd Floor WRR Outside Court Room	NF	F	200 SF
E	9 10 11	Yellow Linoleum/Brown Linoleum	1 st Floor East End North Side Outside Vault	1 st Floor East End North Side Outside Vault	F	F	8 SF
F	12 13 14	Tan Linoleum	2 nd Floor East End South Side Outside Vault	2 nd Floor East End South Side Outside Vault	F	F	8 SF
G	15 16 17	Asbestos Board	Tunnel	Tunnel	F	P	300 SF
H	18 19 20	Air Cell Pipe Cover And Associated Debris	Throughout Building on Steam Lines	Tunnel Cells	F	F	2,114 LF 1,500 SF
I	21 22 23	Mudded Joint Packing on Air Cell Pipe Cover	Throughout Building on Steam Lines	Tunnel Cells	F	F	489 EA
J	24 25 26	Wrapped Paper Pipe Cover	Throughout Building on Domestic Water Lines	Tunnel Chase Between Cells	F	F	856 LF
K	27 28 29	Mudded Joint Packing on Wrapped Paper Pipe Cover	Throughout Building on Domestic Water Lines	Tunnel Chase Between Cells	F	F	155 EA
L	30 31 32	Cork Pipe Cover	Throughout Building on Domestic Water Lines	1 st Floor East Chase	F	F	230 LF
M	33 34 35	Cork Joint Cover	Throughout Building on Domestic Water Lines	1 st Floor East Chase	F	F	25 EA
N	36,37 38,39 40,41 42	Plaster	Throughout Building	Bsmt East and West End 1 st East and West End 2 nd East and West End 1 st Floor Center	NF	F	80,000 SF
O	43 44 45	2x2 Worm Pattern, Drop Ceiling Tile	Historical Society, 1 st Floor SW Section & Stored in Tunnel	Historical Society, 1 st Floor SW Section	F	F	2,228 SF
P	46 47 48	2x2 Rough Pattern, Drop Ceiling Tile	NW section 1 st Floor	NW section 1 st Floor	F	F	448 SF

APPENDIX B
LABORATORY ANALYTICAL RESULTS

REPORT OF BULK SAMPLE ANALYSIS FOR ASBESTOS

TESTED FOR: PSI, Inc
 1211 West Cambridge Circle Drive
 Kansas City, KS 66103
 Attn: Sherri Jones

Project ID: 0603477-1
 Jackson Co.
 Historic CH

Date Received: 2/17/2012 **Date Completed:** 2/23/2012 **Date Reported:** 2/23/2012

Analyst: DA **Work Order:** 1202380 **Page:** 1 of 6

Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.) <i>Analyst's Comment</i>	Asbestos Content (Percent and Type)	Non-asbestos Fibers (Percent and Type)
1	001A	(1) Tan, Floor Tile, Homogeneous (2) Black, Mastic, Homogeneous	2% Chrysotile NO ASBESTOS DETECTED	None Reported None Reported
2	002A	(1) Tan, Floor Tile, Homogeneous (2) Black, Mastic, Homogeneous	2% Chrysotile NO ASBESTOS DETECTED	None Reported None Reported
3	003A	(1) White, Floor Tile, Homogeneous (2) Black, Mastic, Homogeneous	NO ASBESTOS DETECTED 3% Chrysotile	None Reported None Reported
4	004A	(1) White, Floor Tile, Homogeneous (2) Black, Mastic, Homogeneous	NO ASBESTOS DETECTED 3% Chrysotile	None Reported None Reported
5	005A	(1) Tan, Floor Tile, Homogeneous (2) Black, Mastic, Homogeneous	NO ASBESTOS DETECTED 3% Chrysotile	None Reported 4% Cellulose Fiber
6	006A	(1) Tan, Floor Tile, Homogeneous (2) Black, Mastic, Homogeneous	NO ASBESTOS DETECTED 3% Chrysotile	None Reported 4% Cellulose Fiber
7	007A	(1) Brown, Floor Tile, Homogeneous (2) Yellow, Mastic, Homogeneous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	None Reported None Reported
8	008A	(1) Brown, Floor Tile, Homogeneous (2) Yellow, Mastic, Homogeneous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	None Reported None Reported

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Respectfully submitted,
 PSI, Inc.

Maureen L. Sammons
 Approved Signatory
 Maureen Sammons

Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.) <i>Analyst's Comment</i>	Asbestos Content (Percent and Type)	Non-asbestos Fibers (Percent and Type)
9	009A	(1) Yellow, Linoleum, Homogeneous (2) Brown, Linoleum, Homogeneous	NO ASBESTOS DETECTED 12% Chrysotile	None Reported 3% Cellulose Fiber
10	010A	(1) Yellow, Linoleum, Homogeneous (2) Brown, Linoleum, Homogeneous	NO ASBESTOS DETECTED 12% Chrysotile	None Reported 3% Cellulose Fiber
11	011A	(1) Yellow, Linoleum, Homogeneous (2) Brown, Linoleum, Homogeneous	NO ASBESTOS DETECTED 12% Chrysotile	None Reported 3% Cellulose Fiber
12	012A	(1) Tan, Linoleum, Homogeneous	12% Chrysotile	3% Cellulose Fiber
13	013A	Sample Not Tested		
14	014A	Sample Not Tested		
15	015A	(1) Gray, Other, Homogeneous <i>Asbestos Board</i>	60% Chrysotile	40% Cellulose Fiber
16	016A	Sample Not Tested		
17	017A	Sample Not Tested		
18	018A	(1) Gray, Insulation, Homogeneous	50% Chrysotile	50% Cellulose Fiber
19	019A	Sample Not Tested		
20	020A	Sample Not Tested		
21	021A	(1) Gray, Insulation, Homogeneous <i>MJP</i>	90% Chrysotile	None Reported
22	022A	Sample Not Tested		

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Respectfully submitted,
PSI, Inc.



Approved Signatory
Maureen Sammons

Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.) <i>Analyst's Comment</i>	Asbestos Content (Percent and Type)	Non-asbestos Fibers (Percent and Type)
23	023A	Sample Not Tested		
24	024A	(1) Black, Paper, Homogeneous	15% Chrysotile	10% Synthetic Fiber 70% Cellulose Fiber
25	025A	Sample Not Tested		
26	026A	Sample Not Tested		
27	027A	(1) Gray, Paper, Homogeneous <i>MJP Wrapped</i>	70% Chrysotile	30% Cellulose Fiber
28	028A	Sample Not Tested		
29	029A	Sample Not Tested		
30	030A	(1) Black, Other, Homogeneous <i>Cork PC (Tar Material)</i>	< 1% Chrysotile	None Reported
31	031A	(1) Black, Other, Homogeneous <i>Cork PC (Tar Material)</i>	< 1% Chrysotile	None Reported
32	032A	(1) Black, Other, Homogeneous <i>Cork PC (Tar Material)</i>	< 1% Chrysotile	None Reported
33	033A	(1) Black, Other, Homogeneous <i>MJP Cork (Tar Material)</i>	< 1% Chrysotile	None Reported
34	034A	(1) Black, Other, Homogeneous <i>MJP Cork (Tar Material)</i>	< 1% Chrysotile	None Reported
35	035A	(1) Black, Other, Homogeneous <i>MJP Cork (Tar Material)</i>	< 1% Chrysotile	None Reported
36	036A	(1) White, Plaster, Homogeneous	NO ASBESTOS DETECTED	None Reported

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Respectfully submitted,
PSI, Inc.



Approved Signatory
Maureen Sammons

Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.) <i>Analyst's Comment</i>	Asbestos Content (Percent and Type)	Non-asbestos Fibers (Percent and Type)
37	037A	(1) White, Plaster, Homogeneous	NO ASBESTOS DETECTED	None Reported
38	038A	(1) White, Plaster, Homogeneous	NO ASBESTOS DETECTED	None Reported
39	039A	(1) White, Plaster, Homogeneous	NO ASBESTOS DETECTED	None Reported
40	040A	(1) White, Plaster, Homogeneous	NO ASBESTOS DETECTED	None Reported
41	041A	(1) White, Plaster, Homogeneous	NO ASBESTOS DETECTED	None Reported
42	042A	(1) White, Plaster, Homogeneous	NO ASBESTOS DETECTED	None Reported
43	043A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
44	044A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
45	045A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
46	046A	(1) White, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	15% Cellulose Fiber 50% Fibrous Glass
47	047A	(1) White, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	15% Cellulose Fiber 50% Fibrous Glass
48	048A	(1) White, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	15% Cellulose Fiber 50% Fibrous Glass
49	049A	(1) Gray, Drywall, Homogeneous (2) White, Joint Compound, Homogeneous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	10% Cellulose Fiber None Reported
50	050A	(1) Gray, Drywall, Homogeneous (2) White, Joint Compound, Homogeneous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	10% Cellulose Fiber None Reported

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Respectfully submitted,
PSI, Inc.



Approved Signatory
Maureen Sammons

Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.) <i>Analyst's Comment</i>	Asbestos Content (Percent and Type)	Non-asbestos Fibers (Percent and Type)
51	051A	(1) Gray, Drywall, Homogeneous (2) White, Joint Compound, Homogeneous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	10% Cellulose Fiber None Reported
52	052A	(1) Black, Flooring, Homogeneous	NO ASBESTOS DETECTED	5% Cellulose Fiber
53	053A	(1) Black, Flooring, Homogeneous	NO ASBESTOS DETECTED	5% Cellulose Fiber
54	054A	(1) Black, Flooring, Homogeneous	NO ASBESTOS DETECTED	5% Cellulose Fiber
55	055A	(1) Brown, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
56	056A	(1) Brown, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
57	057A	(1) Brown, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
58	058A	(1) Brown, Baseboard, Homogeneous (2) Brown, Mastic, Homogeneous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	None Reported None Reported
59	059A	(1) Brown, Baseboard, Homogeneous (2) Brown, Mastic, Homogeneous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	None Reported None Reported
60	060A	(1) Brown, Baseboard, Homogeneous (2) Brown, Mastic, Homogeneous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	None Reported None Reported
61	061A	(1) Brown, Baseboard, Homogeneous (2) Brown, Mastic, Homogeneous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	None Reported None Reported
62	062A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
63	063A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
64	064A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
65	065A	(1) Brown, Glue, Homogeneous	NO ASBESTOS DETECTED	None Reported
66	066A	(1) Brown, Glue, Homogeneous	NO ASBESTOS DETECTED	None Reported
67	067A	(1) Brown, Glue, Homogeneous	NO ASBESTOS DETECTED	None Reported

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Respectfully submitted,
PSI, Inc.



Approved Signatory
Maureen Sammons

Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.) <i>Analyst's Comment</i>	Asbestos Content (Percent and Type)	Non-asbestos Fibers (Percent and Type)
68	068A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
69	069A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
70	070A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
71	071A	(1) Black, Roofing, Homogeneous	NO ASBESTOS DETECTED	45% Cellulose Fiber
72	072A	(1) Black, Roofing, Homogeneous	NO ASBESTOS DETECTED	45% Cellulose Fiber
73	073A	(1) Black, Roofing, Homogeneous	NO ASBESTOS DETECTED	45% Cellulose Fiber
74	074A	(1) Yellow, Mastic, Homogeneous	NO ASBESTOS DETECTED	None Reported
75	075A	(1) Yellow, Mastic, Homogeneous	NO ASBESTOS DETECTED	None Reported
76	076A	(1) Yellow, Mastic, Homogeneous	NO ASBESTOS DETECTED	None Reported
77	077A	(1) Brown, Flooring, Homogeneous	NO ASBESTOS DETECTED	5% Cellulose Fiber
78	078A	(1) Brown, Flooring, Homogeneous	NO ASBESTOS DETECTED	5% Cellulose Fiber
79	079A	(1) Brown, Flooring, Homogeneous	NO ASBESTOS DETECTED	5% Cellulose Fiber
80	080A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
81	081A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass
82	082A	(1) Gray, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	30% Cellulose Fiber 30% Fibrous Glass

Report Notes: (PT) Point Count Results

Quantitation is based on a visual estimation of the relative area of bulk sample components, unless otherwise noted in the "Comments" section of this report. The results are valid only for the item tested. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Method used: E.P.A. Method for the Determination of Asbestos in Bulk Building Materials (EPA / 600/R-93/116 July 1993). Polarized Light Microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos containing. Samples will be disposed of within 30 days unless notified in writing by the client. No part of this report may be reproduced, except in full, without written permission of the laboratory. The reporting limit is 1% by weight. NVLAP Lab Code 101350-0.

Respectfully submitted,
PSI, Inc.



Approved Signatory
Maureen Sammons

CHAIN OF CUSTODY RECORD

1202380 (3)

PROJECT NAME Jackson Co. Wreath CH	REPORT TO KCCPSC	INVOICE TO Same
PROJECT NUMBER 0605477-1	PROJECT MANAGER S. Lorrin Jones	ADDRESS
P.O. NUMBER	ADDRESS 12110 Cambridge Cndr.	CITY / STATE / ZIP
REQUIRED DUE DATE (MM-DD-YY) Standard	CITY / STATE / ZIP KCKS 66107	ATTENTION
SAMPLES TO LAB VIA Fed Ex	TELEPHONE 913-310-1000	TELEPHONE
NUMBER OF COOLERS/PACKAGES	FAX	

RELINQUISHED BY DATE / TIME 2/16/12	ACCEPTED BY DATE / TIME Susan Muenster 2/17/12 11:06am	LABORATORY USE ONLY FIELD SERVICES Y/N \$ SHIPPING Y/N \$
		LABORATORY USE ONLY ANALYTICAL DUE DATE REPORT DUE DATE PSI PROJECT NAME PSI PROJECT NUMBER PSI BATCH NUMBER

SAMPLE CUSTODIAN	LABORATORY USE ONLY DATE / TIME	AIR-A BULK-B DUST-D NOB-N PAINT-P	SOIL-S VACUUM-V WASTE-W WATER-W WIPE-WP	LAB USE ONLY LAB NUMBER	NUMBER OF CONTAINERS	PARAMETER LIST
1-2	2/16/12	B			2	9x9 VFT
3-4					1	12x12 White
5-6					1	12x12 Tan
7-8					3	12x12 Green
9-11						Yellow Linoleum
12-14						Tan Linoleum
15-17						Asb. Board
18-20						Air Cell PC
21-23						MVP Air Cell F
24-26						Unopened Paper PC

ADDITIONAL REMARKS /sr Positive Step

SAMPLER'S SIGNATURE

850 Poplar Street
Pittsburgh, PA 15220
412/922-4000

OTHER

LABORATORY SUBMITTED TO:

25 Dubon Court
Farmingdale, NY 11735
516/752-1226

4820 W. 15th Street
Lawrence, KS 66049
800/548-7901

211 E. Imperial Hwy., Suite 201
Fullerton, CA 92635
714/526-8901

W228 N727 Westmound Dr., Suite A
Waukesha, WI 53186
414/970-9022

LABORATORY USE ONLY

ANALYTICAL DUE DATE

REPORT DUE DATE

PSI PROJECT NAME

PSI PROJECT NUMBER

PSI BATCH NUMBER

PARAMETER LIST

CHAIN OF CUSTODY RECORD

1202380

PROJECT NAME <i>Jackson Co. Historical CH</i>	REPORT TO <i>KC PST</i>	INVOICE TO <i>Gene</i>
PROJECT NUMBER <i>003 977-1</i>	PROJECT MANAGER <i>Sherril Jones</i>	ADDRESS
P.O. NUMBER	ADDRESS	CITY / STATE / ZIP
REQUIRED DUE DATE (MM-DD-YY) <i>Starla</i>	CITY / STATE / ZIP <i>1211 W Cambridge Cir Dr.</i>	ATTENTION
SAMPLES TO LAB VIA <i>Ed Ex</i>	TELEPHONE <i>KCKS 66603</i>	TELEPHONE
NUMBER OF COOLERS/PACKAGES	FAX	
	REPORT DATA VIA <input type="checkbox"/> VERBAL <input type="checkbox"/> FAX	
RELINQUISHED BY <i>[Signature]</i>	ACCEPTED BY DATE / TIME <i>2/16/12 800 2/17/12</i>	LABORATORY USE ONLY FIELD SERVICES Y/N \$
DATE / TIME <i>2/16/12 800 11:07a</i>	SEAL NUMBER	SHIPPING Y/N \$
SAMPLE CUSTODIAN	LABORATORY USE ONLY DATE / TIME	NUMBER OF CONTAINERS
SAMPLE IDENTIFICATION	AIR-A BULK-B DUST-D PAINT-P SOIL-S VACUUM-V WASTE-X WIPE-WP LAB USE ONLY LAB NUMBER	
<i>60-61</i>	<i>2/16/12 5</i>	<i>2</i>
<i>62-64</i>		<i>3</i>
<i>65-67</i>		
<i>68-70</i>		
<i>71-73</i>		
<i>74-76</i>		
<i>77-79</i>		
<i>80-82</i>		

*6" Down VPO
1X1 CT
Glue Dot
2X4 OCT
Roofing
Carpet matting
DK Brown Flooring
2x4 Finhole Det*

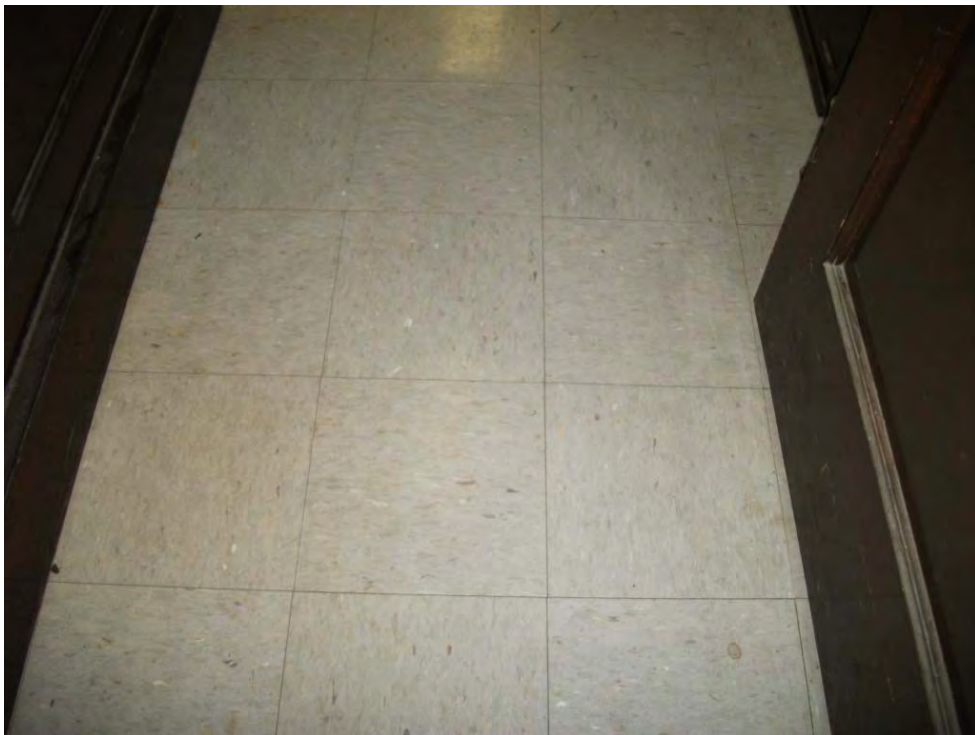
ADDITIONAL REMARKS *1st Porcupine Spot*

SAMPLER'S SIGNATURE
[Signature]

**APPENDIX C
PHOTOGRAPHS**



Homogenous Area A – 9x9 Vinyl Floor Tile



Homogenous Area B – 12x12 White Vinyl Floor Tile



Homogenous Area C – 12x12 Tan Vinyl Floor Tile



Homogenous Area D – 12x12 Brown Vinyl Floor Tile



Homogenous Area E – Yellow Linoleum



Homogenous Area F – Tan Linoleum



Homogenous Area G – Asbestos Board



Homogenous Area H – Air Cell Pipe Cover



Homogenous Area I – Muddied Joint Packing on Air Cell Pipe Cover



Homogenous Area J – Wrapped Paper Pipe Cover



Homogenous Area K – Mudded Joint Packing on Wrapped Paper Pipe Cover



Homogenous Area L – Cork Pipe Cover



Homogenous Area M – Elbow on Cork Pipe Cover



Homogenous Area N – Plaster



Homogenous Area O – 2x2 Worm Pattern, Drop Ceiling Tile



Homogenous Area P – 2x2 Rough Pattern, Drop Ceiling Tile



Homogenous Area Q – Drywall



Homogenous Area R – Black Flooring



Homogenous Area S – Brown Flooring



Homogenous Area T – 4" Brown Vinyl Baseboard



Homogenous Area U – 6” Brown Vinyl Baseboard



Homogenous Area V – 1x1 Ceiling Tile



Homogenous Area W – Glue Dots



Homogenous Area X – 2x4 Drop Ceiling Tile



Homogenous Area Y – Roofing



Homogenous Area Z – Carpet Mastic



Homogenous Area AA – Dark Brown Flooring



Homogenous Area BB – 2x4 Pinhole Pattern, Drop Ceiling Tile

**APPENDIX D
CERTIFICATES**

Expiration Date: **12/18/2012** Certificate Number: 701120811MOIR2585

Training Date: **12/8/2011**

Missouri State Certificate for Asbestos Related Occupations

issued by Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102
Phone (573) 751-4817

John I. Starr

has successfully completed the requirements for certification as a INSPECTOR. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

12/19/2011

Date

Kyra L Moore

Director of Air Pollution Control Program



1.4 Avian Feces Remediation Work Plan

AVIAN FECES REMEDIATION WORK PLAN

For

**Jackson County Historic Courthouse
102 North Main
Independence, Missouri 64050**

Prepared for

**Jackson County Public Works
303 West Walnut Street
Independence, Missouri 64050**

**PSI PROJECT NUMBER: 0603-477
JACKSON COUNTY PROJECT NO. 3147A**

April 16, 2012

Prepared by

**PROFESSIONAL SERVICE INDUSTRIES, INC.
1211 West Cambridge Circle Drive
Kansas City, Kansas 66103
(913) 310-1600
Fax (913) 310-1601**

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SECTION 4.0 -	SEQUENCING OF REMEDIATION
SECTION 5.0-	ESTABLISHMENT OF NEGATIVE PRESSURE CONTAINMENT
SECTION 6.0-	CLEANING
SECTION 7.0 -	DISPOSAL
SECTION 8.0 -	ACCEPTABLE WORK PERFORMANCE AND CLEARANCE TESTING
SECTION 9.0 -	SUBMITTALS
ATTACHMENT A	REFERENCES: ESTABLISHED GUIDELINES FOR FUNGAL REMEDICATION

SECTION 1 – SCOPE OF WORK

1.1. General

The following is an Avian Feces Remediation Plan for addressing histoplasma capsulatum (a fungus) contamination, such as, seepage damaged or biologically contaminated building materials. The outlined protocols are basic procedures to minimize the transference of histoplasma capsulatum to uncontaminated areas, for decontaminating building materials and to protect personnel during remediation. At a minimum, remediation and decontamination procedures should follow established guidelines listed in Attachment A. In addition to these guidelines, the contractor is expected to abide by all applicable local, State, and Federal laws for the location where the work is being performed.

This guideline is for the use of the remediation contractor. It is intended to provide general guidance for controlled removal, and sanitizing of feces/fungal contaminated items. Additional site-specific measures may be warranted for personnel safety. PSI assumes no liability for worker safety, which shall remain the sole responsibility of the contractor.

As a general guidance document, this protocol cannot and does not address every histoplasma capsulatum scenario that may arise. Unique circumstances may exist at some properties that will require alternative approaches. When such circumstances develop during the course of remediation activities, PSI should be consulted for advice on the appropriate action.

1.2. Project Background

The subject site is the Jackson County Historic Truman Courthouse located in Independence, Missouri. The work area is the bell tower, bell, and clock works room of the courthouse.

1.3. General Outline of Scope of Work

Bell Tower, Bell, and Clock Works Room

- Control access to the clock works room and bell tower to separate the work area from the remainder of the building.
- Access to the work area will be as directed by Jackson County Public Works personnel.
- Spray the areas of fecal contamination with quaternary ammonia and remove from the work area.

- After removal of the avian feces, HEPA vacuum and/or wet wipe all areas within the work area.

If at any time during remediation of the area of concern, additional avian feces is encountered, then additional remediation should be done in accordance with the above stated methods.

All work should be performed in general accordance with the guidelines established by the US EPA Guidance Document: "Microbiological Remediation in Schools and Commercial Buildings," dated May 8, 2002. In addition, the Institute of Inspection, Cleaning, Restoration and Certification (IICRC) Standard and Reference Guides S520 (Mold Remediation Standard) and S500 (Professional Water Damage Restoration) shall also apply. All work is to be performed by workers properly trained in microbiological remediation.

All material to be removed and discarded shall be done so according to the specifications in this work plan. Remaining materials are to be cleaned and disinfected according to specifications in this work plan.

The area isolation shall remain in place until work activities are determined to be acceptable by PSI and as outlined in this work plan.

Note: Any conditions that are considered to be anomalous or outside of typical concerns regarding avian feces remediation activities or this work plan should be brought to the attention of PSI prior to any action being taken.

SECTION 2 – PRIOR TO BEGINNING WORK

2.1. Points of Access

All personnel, equipment, materials and waste will be transported through the area as directed by Jackson County Public Works personnel.

2.2. Security

Access to the space will be as directed by Jackson County Public Works personnel.

2.3. Barriers

A critical barrier of 6-mil polyethylene sheeting is required to separate the work area from the remainder of the building. The remediation contractor is to restrict access to the work area. A HEPA air filtration scrubber will be placed in the work area. The critical barrier will remain in place until acceptance criteria as established within this work plan are satisfied through visual observation.

In addition, all waste material will be double bagged and sealed within the containment prior to removal.

SECTION 3 – PERSONAL PROTECTIVE EQUIPMENT

3.1. Required Personal PPE

All personnel employed in demolition, cleaning, and/or removal of contaminated building materials and contents including the application of fungicidal treatment will be required to use the following Personal Protective Equipment (PPE). All personnel will have been medically cleared, trained, and fitted for the PPE that they use, especially respirators, in accordance with applicable local, state, and federal regulations. The following PPE is required:

- 3.1.1. Air purifying respirators (half or full face) equipped with high efficiency particulate air (HEPA) filter cartridges. Organic vapor cartridge respirators will be worn if organic solvents are being used or the Material Safety Data Sheet for the products being used recommends them.
- 3.1.2. Disposable coveralls with booties and hood.
- 3.1.3. Rubber or leather work gloves. Other types of gloves may be necessary depending on the work tasks and chemicals used
- 3.1.4. Splash-proof safety goggles, if half face respirators are used.

3.2. Usage of PPE

At the end of each work shift, all disposable gear should be discarded. The disposable gear will be removed while inside the containment. It will be placed in a plastic bag. When the bag is full it will be double bagged and sealed before bringing it outside the containment. It may be disposed with the other remediation debris. The respirators should be wiped down with 70 percent rubbing alcohol sponges (or similar respirator cleaning products) whenever contact with the skin occurs; and, gloves and shoes should be sprayed with aerosol Lysol® (or equivalent) disinfectant spray to kill viable microbes.

SECTION 4 – SEQUENCING OF REMEDIATION

Remediation activities may generate significant airborne dust, which in all likelihood will contain excrement matter. Unless otherwise specified, workers trained in the cleaning of contaminated materials must perform all cleaning of contaminated surfaces. The remediation activities must be done using polyethylene barriers. The general sequence will involve

1. Restrict access and establish a work area.
2. Clean surfaces within the proposed work area.
3. Determination of acceptable work performance and post remediation monitoring.
4. Demobilization of barriers and dispose of materials off-site.

Note: Any conditions that are considered to be anomalous or outside of typical concerns regarding fungal remediation activities should be brought to the attention of PSI prior to any action being taken.

SECTION 5 – ESTABLISHMENT OF NEGATIVE PRESSURE CONTAINMENT

5.1. Containment Construction

The containment will consist of critical barriers over all openings into and out of the work area. The critical barriers will remain in place until acceptance criteria as established within this work plan are satisfied through visual observation.

5.2. Negative Air

Negative air machines equipped with HEPA filtration are to be installed, to establish a slight negative air pressure within the containment relative to air outside of the containment. The negative pressure produced by the HEPA filtration unit will trap and hold dust (which will contain fragments, bacterial and other potential allergens, etc.) on the HEPA filter and eliminate it from spreading outside the containment. Air vented outside of the containments is always to be passed through a HEPA filter prior to being exhausted.

5.3. Signage

Appropriate warning signs should be posted at any openings to the containment and adjacent room area. An example sign would be: "Restricted Work Area. Only authorized persons with appropriate safety equipment will be permitted."

SECTION 6.0 – CLEANING

6.1 Cleaning

All remaining surfaces within the work area shall be thoroughly cleaned to remove loose dust. The cleaning shall be performed using damp cloths wetted with a cleaning solution, as described in this work plan, and vacuum cleaners equipped with HEPA filters. The negative air machines / air scrubbers will be in continuous operation throughout the cleaning phase.

Caution: Cleaning may introduce water into the containment area. The remediation contractor is responsible for following the appropriate lock out/tag out procedures for any electrical components in the work area. The remediation contractor is also responsible for protecting all live electrical circuits running into and through the work area.

6.2 Cleaning Solution

Surfaces that have been contaminated by avian feces shall be thoroughly cleaned with an appropriate cleaning solution. Any chemicals to be used must be designated as EPA Approved. Because the solution may be a reactive chemical, damage to porous materials might occur. The remediation contractor shall use due care when applying this solution.

Adequate ventilation, as per the manufacturer's recommendations, must be maintained in areas where disinfectants are being used. Contractor is responsible for proper worker PPE, including respiratory protection, during application of any cleaners, sanitizers or disinfectants.

The cleaning solution must meet the following requirements:

- It must have an EPA approval number;
- It must be used for the approved purpose; and,
- It must be used according to the label instructions.

SECTION 7.0 – DISPOSAL

The debris may be disposed as normal waste or construction demolition debris depending on local and state regulations. This material is not considered hazardous waste. All applicable local, State, and Federal requirements for the disposal of this material shall be followed.

SECTION 8.0 – ACCEPTABLE WORK PERFORMANCE AND POST REMEDIATION INSPECTION

8.1 Visual Inspection

After the completion of the re mediation (but prior to any breakdown of barriers) PSI will perform a visual inspection inside the contain ment. The evaluation will be performed under the direction of a PSI Principal Consultant. PSI will note any odors, stains, visual material and document t he removal or cleaning of the identified impacted building substrates.

8.2 Acceptance Criteria

The barriers will rema in in place until acceptance criteria as establishe d within this work plan are satisfied through visual observation.

Visual evaluation must indicate the area adequately cleaned. The area is to be completely free of dust or debris.

SECTION 9.0 – SUBMITTALS

9.1 Submittals Prior to Project Start Date

Prior to the project start date, the contractor shall submit to the owner's representative, the following documentation:

- Material Safety Data Sheets (MSDS) for each chemical to be used during the project.
- Current Respirator Fit Test Records.
- Current Medical Clearance for Respirator Use.
- Any applicable worker training certificates.

In addition, this documentation must be maintained on the project site for the duration of the project.

9.2 Submittals After Project Completion

Upon completion of the project, the contractor will submit a report to the owner's representative that describes the work that was performed. All submittals will be provided within 30 days. The report will include the following:

- Work Site Daily Logs, indicating at a minimum
 - Work performed
 - Amount of material removed
 - Names of workers present on job site
 - Times that those workers were present
- Documentation of Disposal
- Copies of any change orders, etc. and any supporting documentation

ATTACHMENT A: REFERENCES:

ESTABLISHED GUIDELINES FOR MOLD REMEDIATION

1. "Guidelines on Assessment and Remediation of Fungi in Indoor Environments," New York City Department of Health & Mental Hygiene, Bureau of Environmental & Occupational Disease Epidemiology, April 2002.
2. "Mold Remediation in Schools and Commercial Buildings," U.S. Environmental protection Agency, EPA 402-K-01-001, March 2001.
3. Institute of Inspection Cleaning and Restoration Certification (IICRC) S500 *Standard and Reference Guide for Professional Water Damage Restoration.*
4. Institute of Inspection Cleaning and Restoration Certification (IICRC) S520 *Standard and Reference Guide for Fungal Remediation.*

Jackson County Historic Truman Courthouse Interior Renovation
Abatement, Remediation, and Selective Demolition
102 North Main Street, Independence, Missouri 64050

April 16, 2012
County Project No. 3147A
County Bid No. PW-02-2012

PSI DRAWINGS

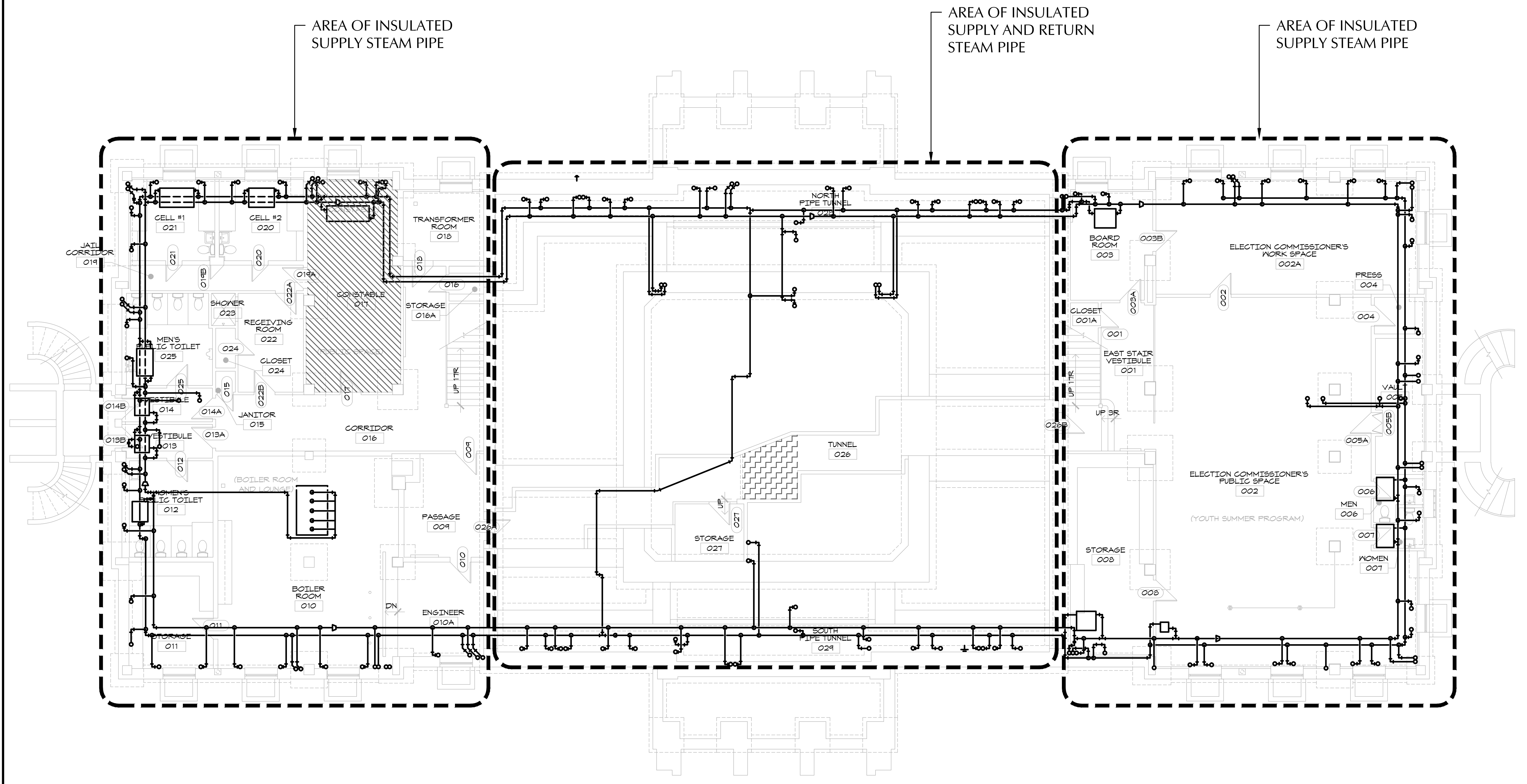
JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE
ASBESTOS ABATEMENT
 102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR CONSTRUCTION

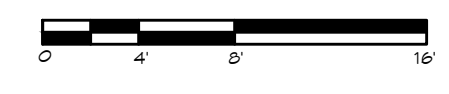
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DATE	April 6, 2012
DRAWN BY	MS
CHECKED BY	XXX
CHECKED BY	XXX

SHEET TITLE & NUMBER
BASEMENT FLOOR PLAN
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ASB-01



BASEMENT FLOOR PLAN-STEAM PIPING AND FLOORING
 SCALE: 1/8" = 1'-0" (24" x 36" Sheet Size)



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INDUSTRIES, INC.
1211 W. CAMBRIDGE CIRCLE DRIVE
KANSAS CITY, KS 66103
TEL: (913) 310-1600
FAX: (913) 310-1601

JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE
ASBESTOS ABATEMENT
102 NORTH MAIN STREET
INDEPENDENCE, MISSOURI 64050

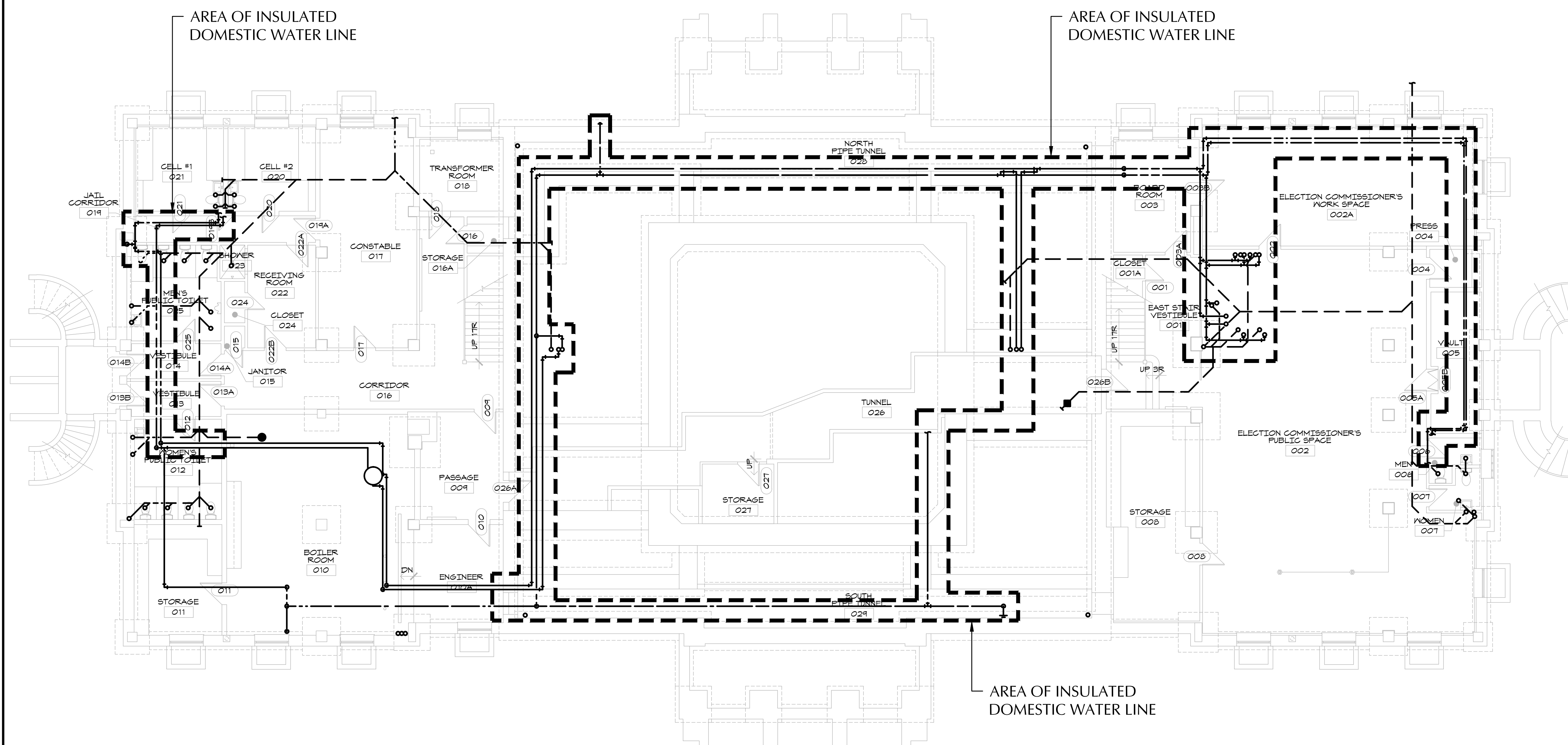
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DATE April 6, 2012
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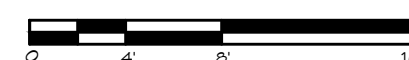
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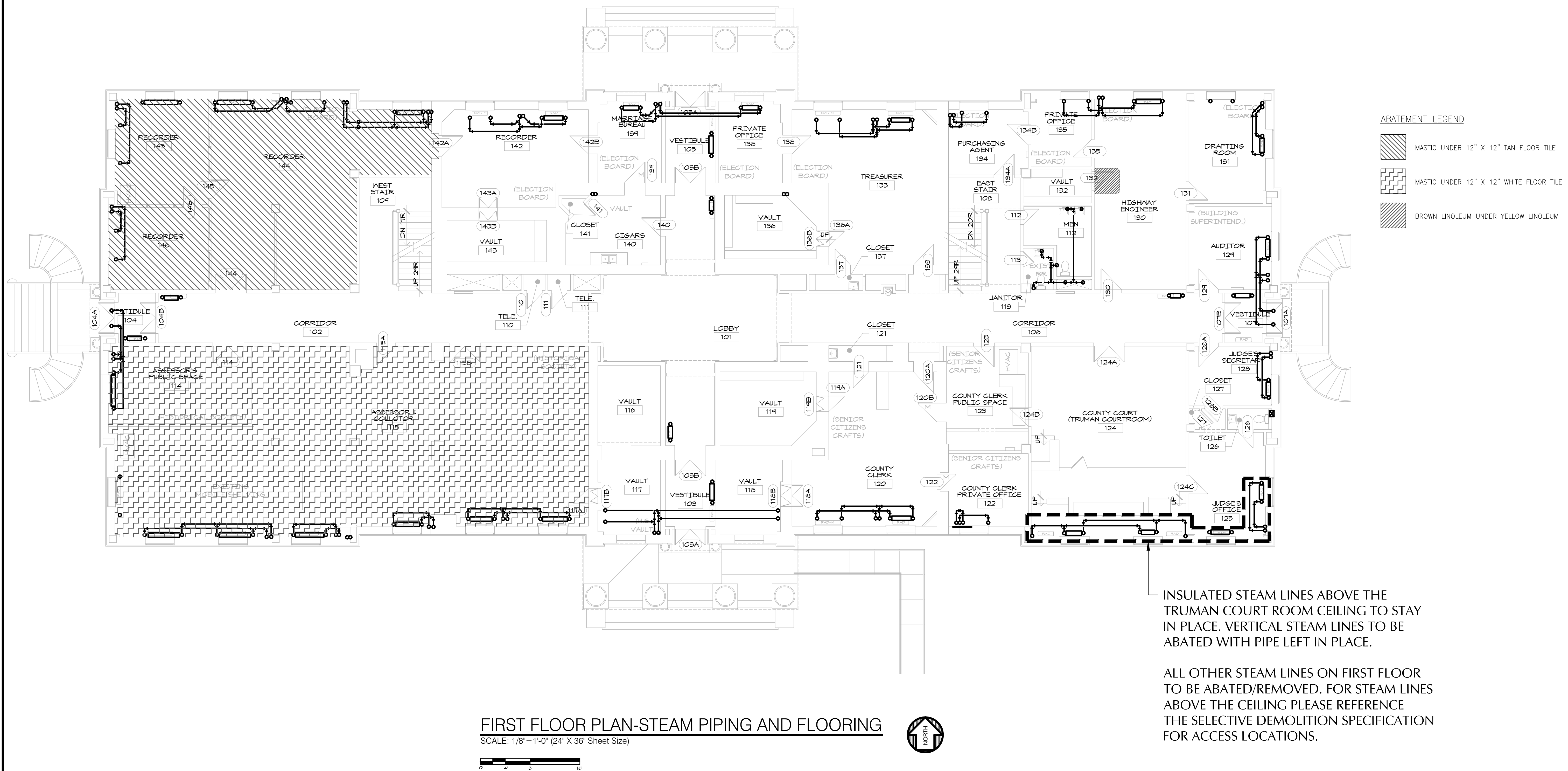
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FIRST FLOOR PLAN-STEAM PIPING AND FLOORING
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INSULATED STEAM LINES ABOVE THE TRUMAN COURT ROOM CEILING TO STAY IN PLACE. VERTICAL STEAM LINES TO BE ABATED WITH PIPE LEFT IN PLACE.

ALL OTHER STEAM LINES ON FIRST FLOOR TO BE ABATED/REMOVED. FOR STEAM LINES ABOVE THE CEILING PLEASE REFERENCE THE SELECTIVE DEMOLITION SPECIFICATION FOR ACCESS LOCATIONS.

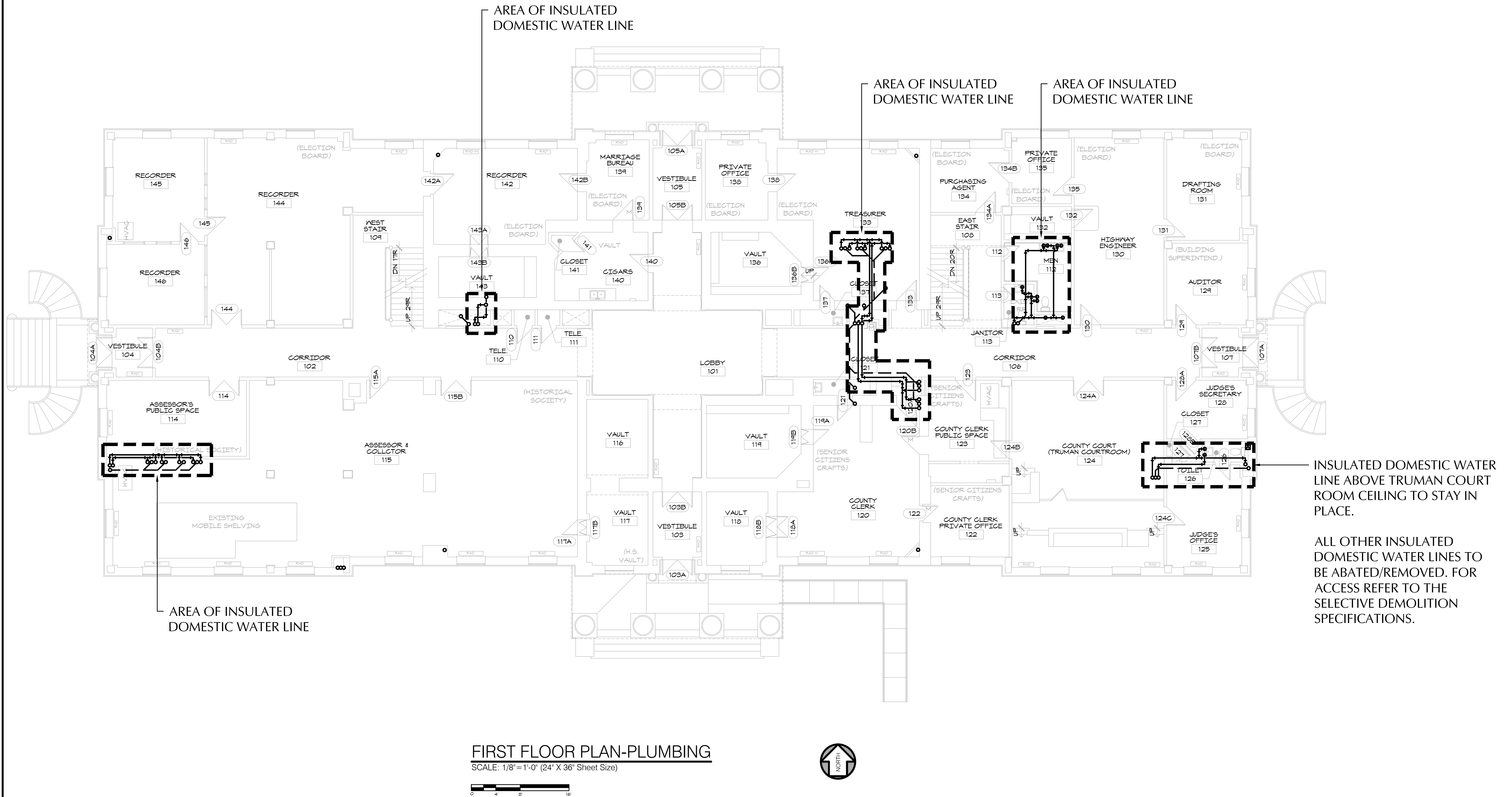
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FIRST FLOOR PLAN-PLUMBING

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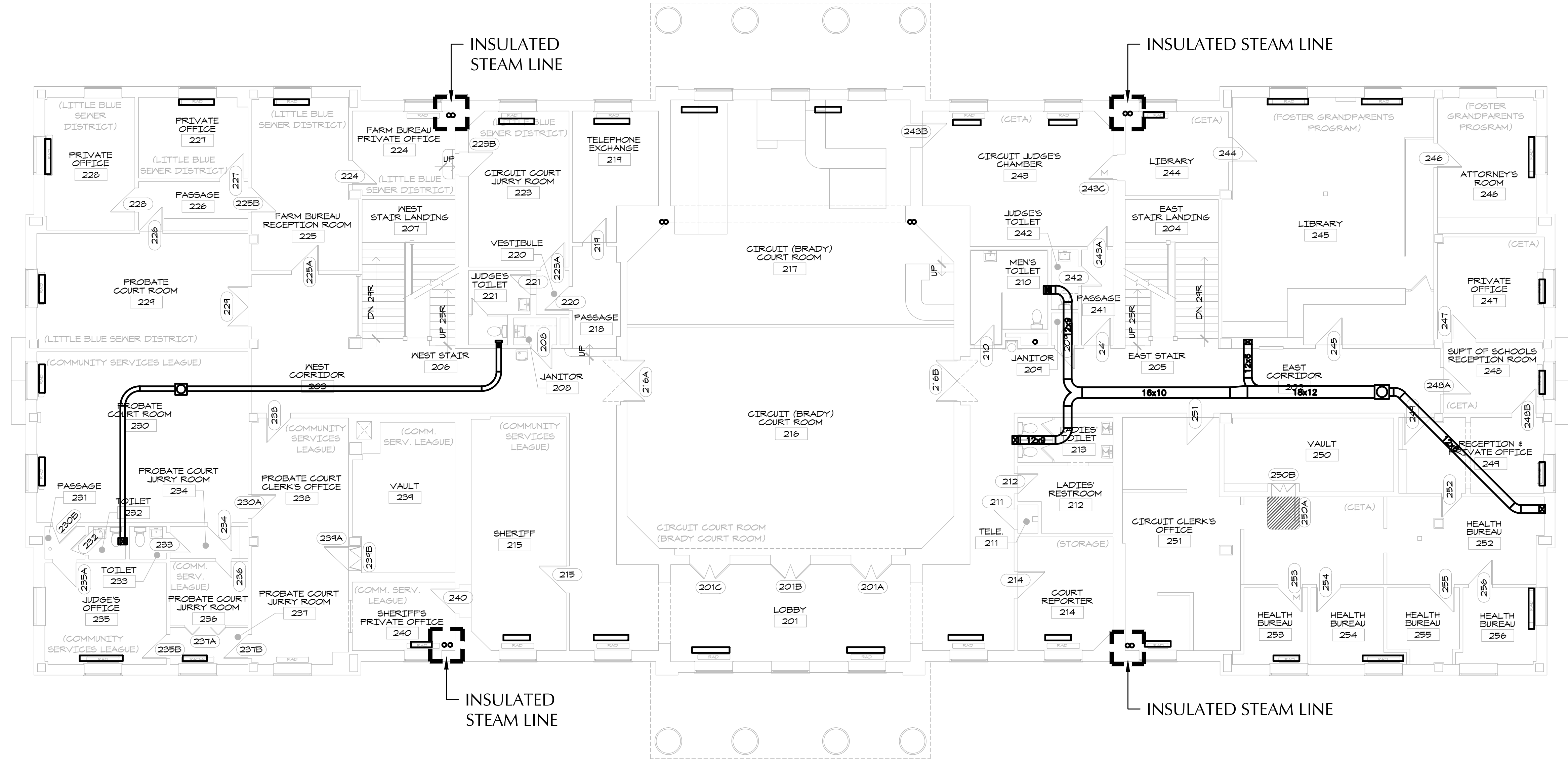
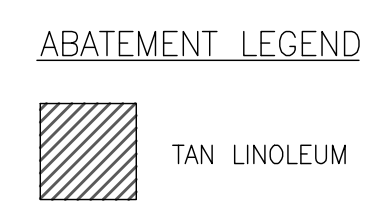
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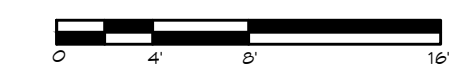
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SECOND FLOOR PLAN-STEAM PIPING AND FLOORING
 SCALE: 1/8"=1'-0" (24" x 36" Sheet Size)



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 INDEPENDENCE, MISSOURI 64050

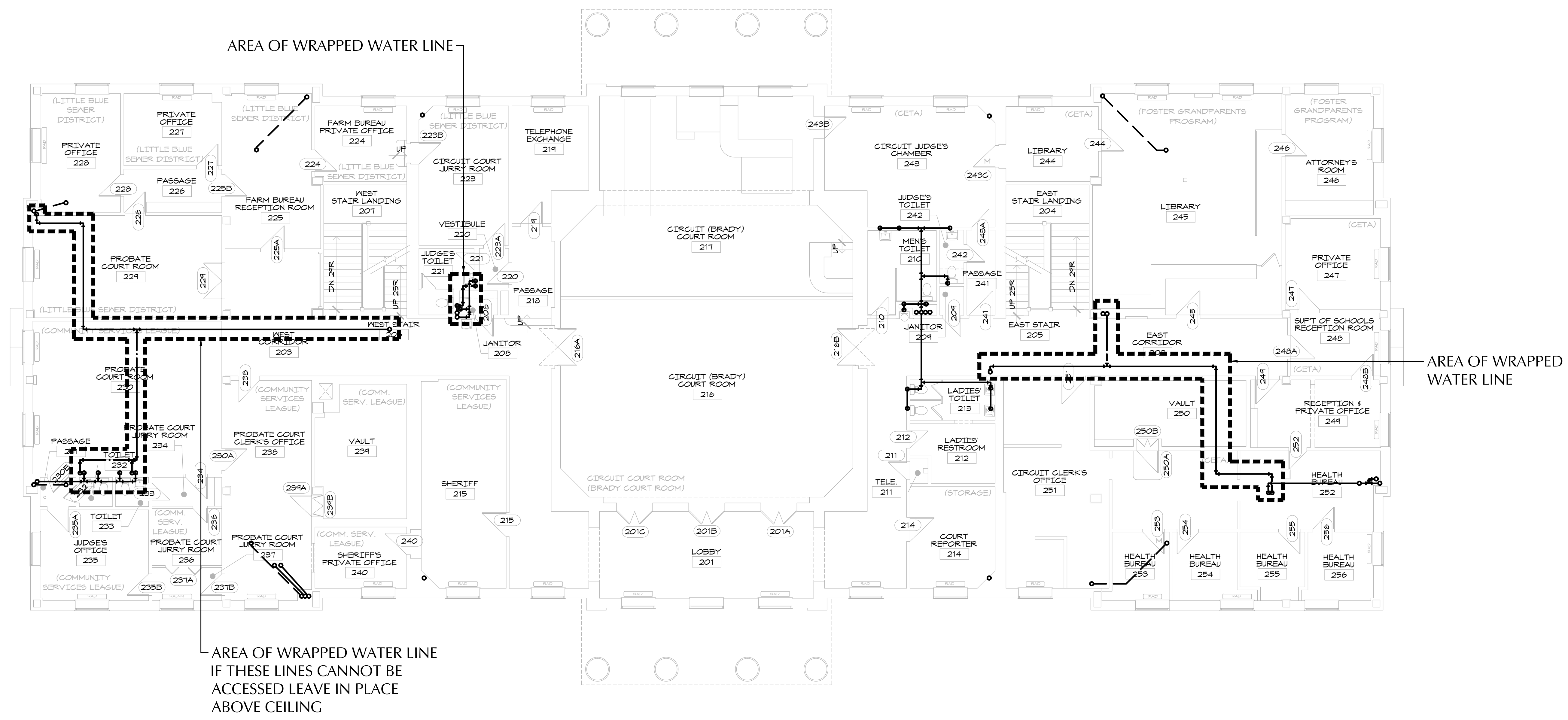
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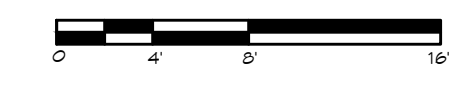
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 FAX: (913) 310-1601

JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE
ASBESTOS ABATEMENT
 102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

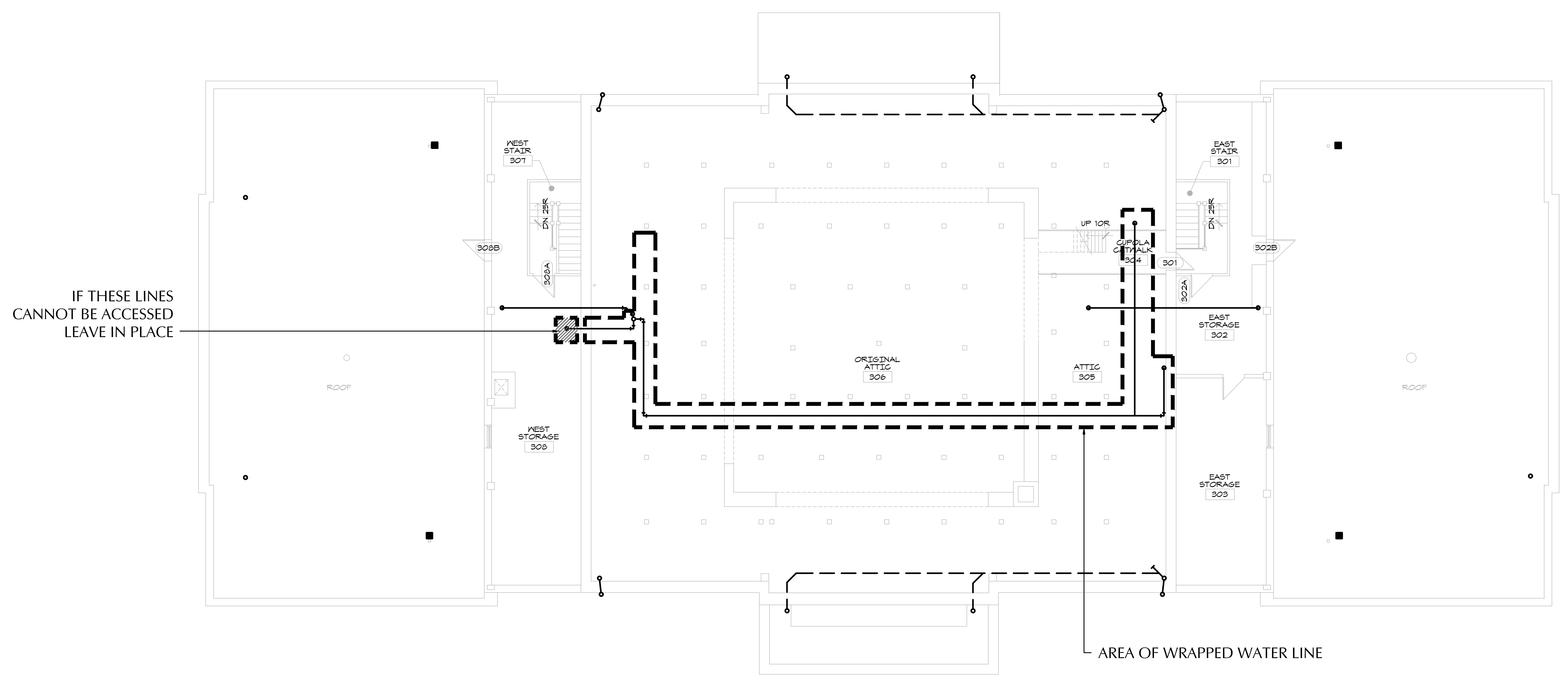
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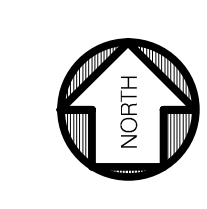
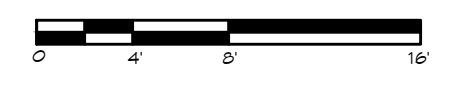
SHEET TITLE & NUMBER
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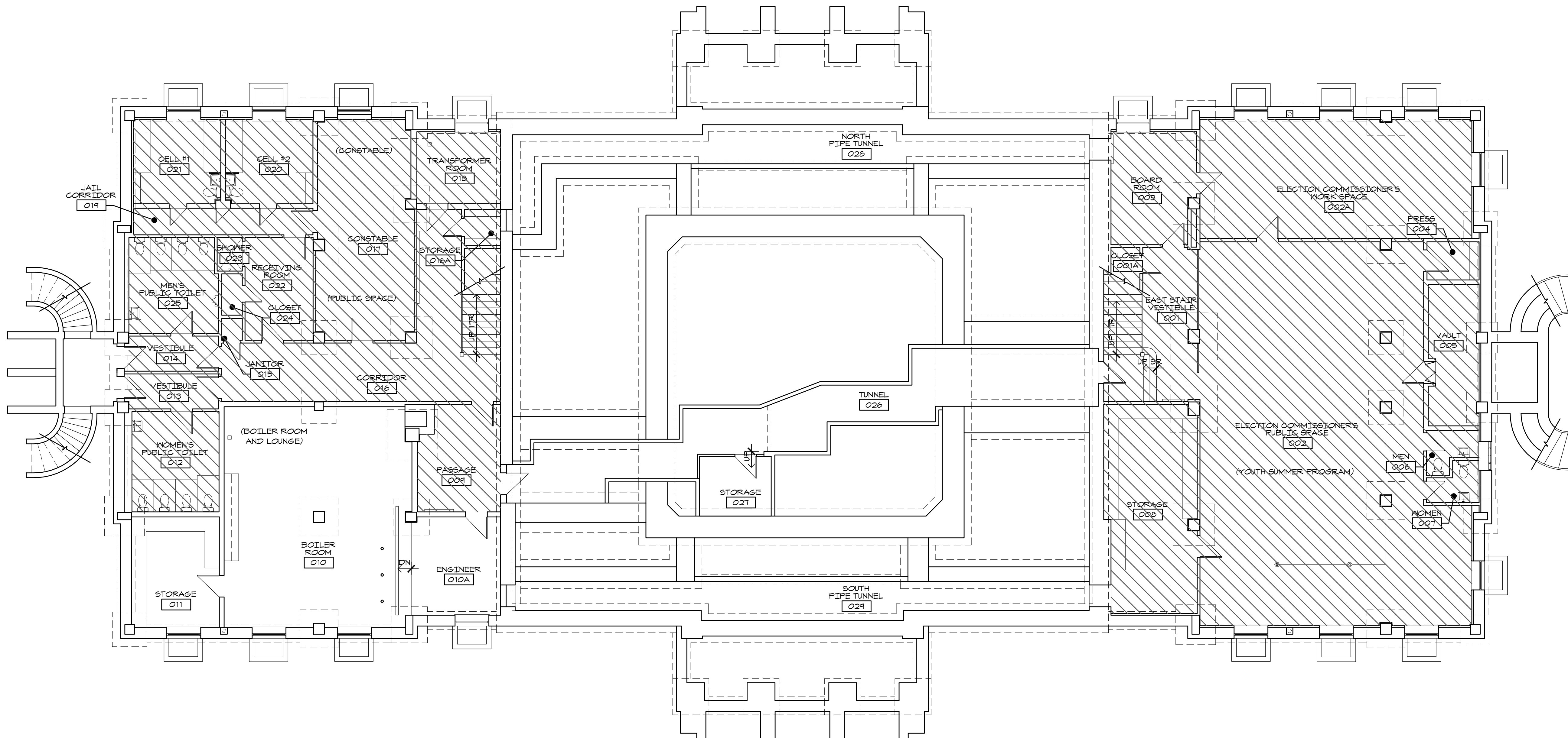
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ATTIC/ROOF PLAN-PLUMBING
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- SYMBOLS LEGEND:**
- AAA ROOM NAME
 - ### ROOM NUMBER
 - ### DOOR NUMBER
 - ◇ WALL TYPE TAG 1
 - X'-X' CEILING HEIGHT TAG

- ABATEMENT LEGEND**
- MOLD-IMPACTED AREA TO BE ABATED

DISCIPLINE: ENVIRONMENTAL SERVICES

PROFESSIONAL SERVICE INDUSTRIES, INC.
 1211 W. CAMBRIDGE CIRCLE DRIVE
 KANSAS CITY, KS 66103
 TEL: (913) 310-1600
 FAX: (913) 310-1601

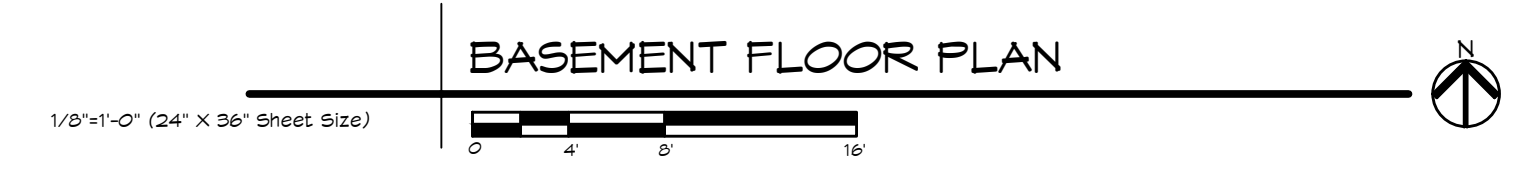
JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE
MOLD ABATEMENT
 102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR CONSTRUCTION

PROJECT NO. Jackson County No. 3147
 DATE April 6, 2012
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SHEET TITLE & NUMBER
BASEMENT PLAN

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 FAX: (913) 310-1601

JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE
MOLD ABATEMENT
 102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR CONSTRUCTION

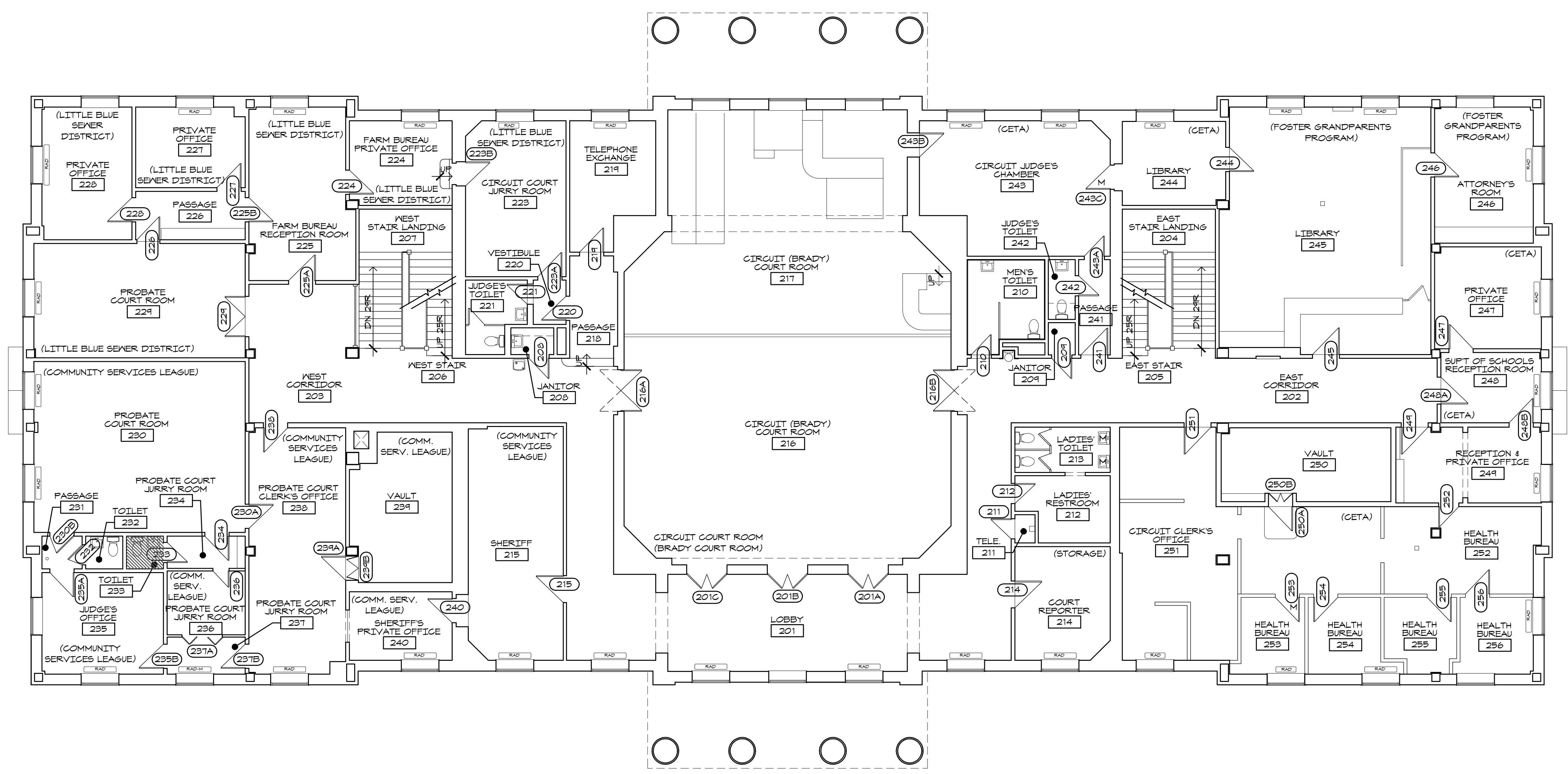
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 DATE April 6, 2012
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 CHECKED BY XXX

SHEET TITLE & NUMBER
SECOND FLOOR PLAN
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F-02

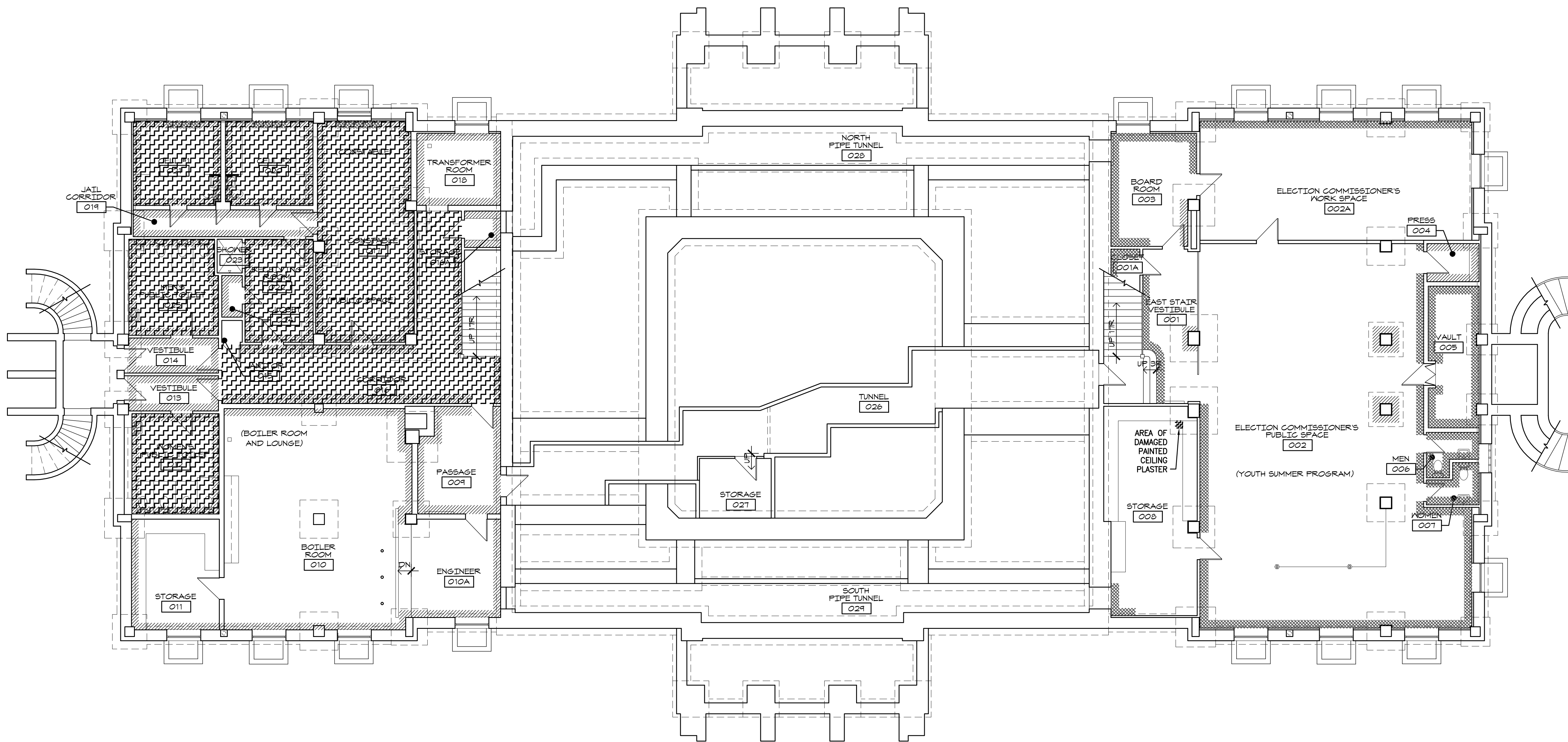
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 - ### DOOR NUMBER
 - ◇ WALL TYPE TAG 1
 - X'-X" CEILING HEIGHT TAG

- ABATEMENT LEGEND**
- MOLD-IMPACTED AREA TO BE ABATED



SECOND FLOOR PLAN
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- SYMBOLS LEGEND:**
- AAA ROOM NAME
 - ### ROOM NUMBER
 - ### DOOR NUMBER
 - ◇ WALL TYPE TAG 1
 - X'-X' CEILING HEIGHT TAG

- ABATEMENT LEGEND**
- DAMAGED CEILING PAINT
 - DAMAGED WALL PAINT
 - DAMAGED WALL PAINT AND PLASTER

DISCIPLINE: ENVIRONMENTAL SERVICES
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JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE
LEAD ABATEMENT
 102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR CONSTRUCTION

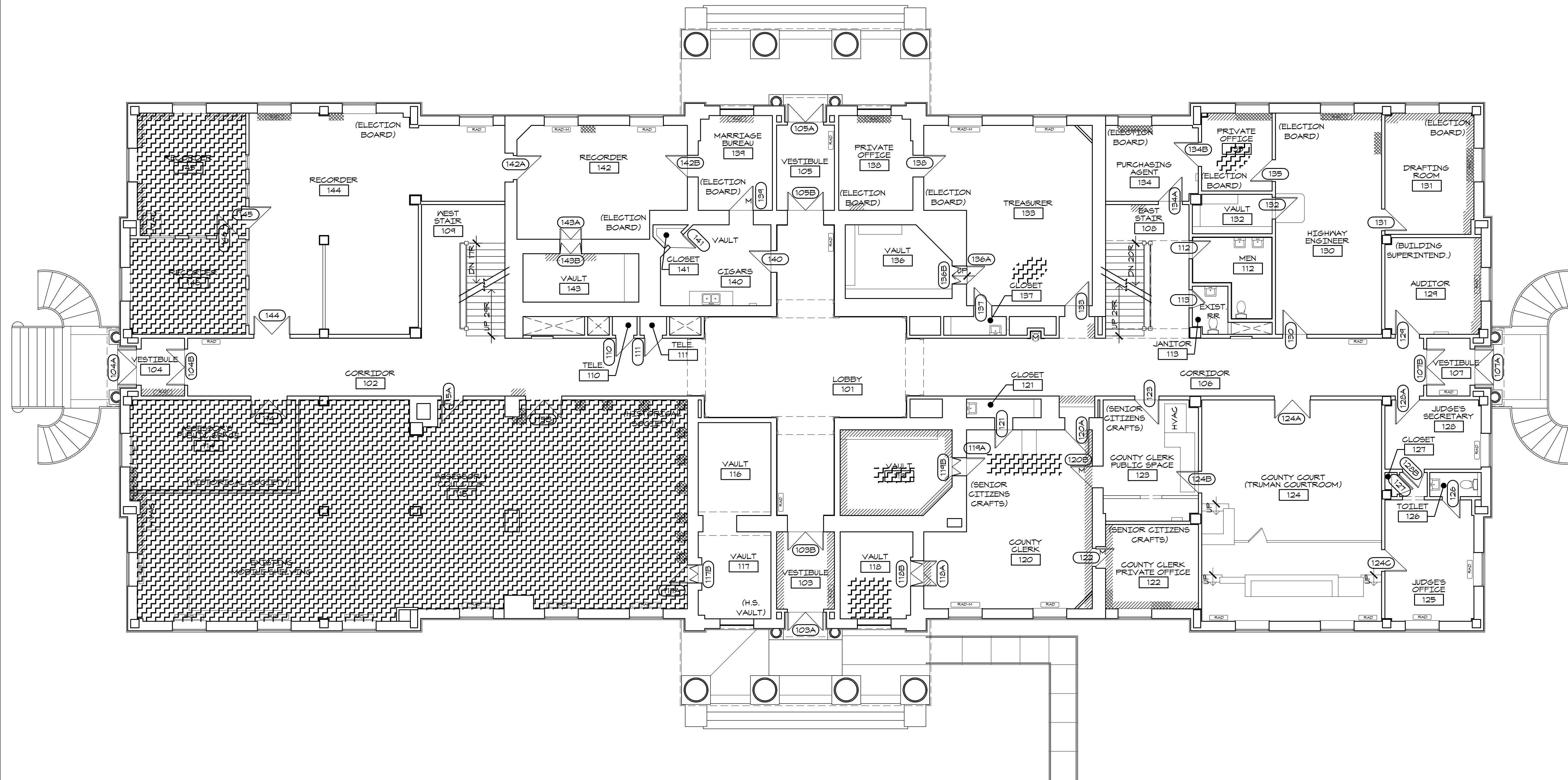
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- SYMBOLS LEGEND:**
- AAA ROOM NAME
 - ### ROOM NUMBER
 - ### DOOR NUMBER
 - ◇ WALL TYPE TAG 1
 - X'-X' CEILING HEIGHT TAG

- ABATEMENT LEGEND**
- DAMAGED CEILING PAINT
 - DAMAGED WALL PAINT
 - DAMAGED WALL PAINT AND PLASTER

DISCIPLINE: ENVIRONMENTAL SERVICES
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JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE
LEAD ABATEMENT
 102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR CONSTRUCTION

PROJECT NO. Jackson County No. 3147
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FIRST FLOOR PLAN

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JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE
LEAD ABATEMENT
 102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR CONSTRUCTION

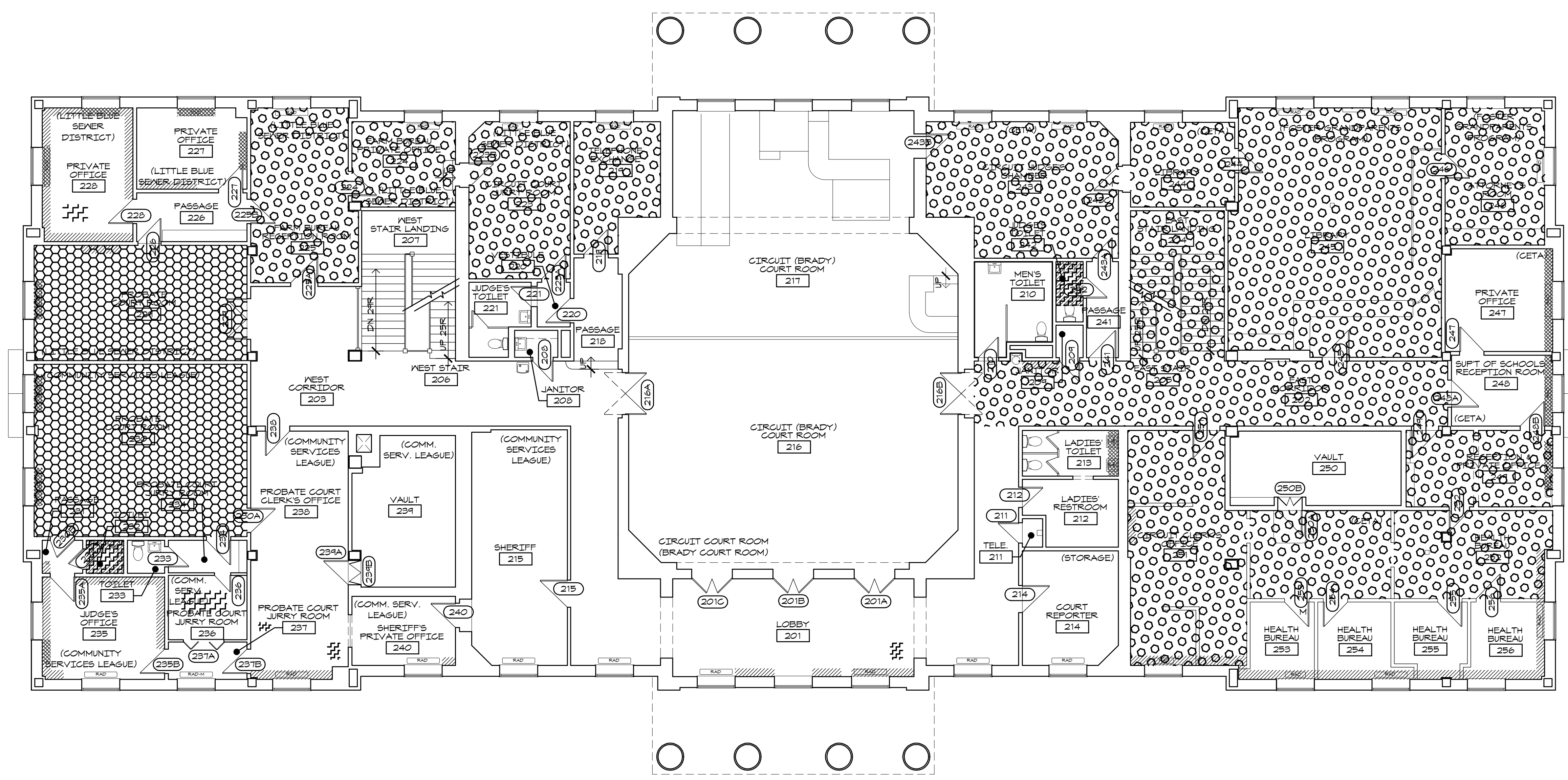
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- SYMBOLS LEGEND:**
- AAA ROOM NAME
 - ### ROOM NUMBER
 - ### DOOR NUMBER
 - ◇ WALL TYPE TAG 1
 - X'-X' CEILING HEIGHT TAG

- ABATEMENT LEGEND**
- DAMAGED CEILING PAINT
 - DAMAGED CEILING PAINT BEHIND 1" X 1" GLUED CEILING TILE
 - DAMAGED PAINTED PLASTER CEILING
 - DAMAGED WALL PAINT
 - DAMAGED WALL PAINT AND PLASTER



SECOND FLOOR PLAN
 1/8"=1'-0" (24" x 36" Sheet Size)

DISCIPLINE: ENVIRONMENTAL SERVICES
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 1211 W. CAMBRIDGE CIRCLE DRIVE
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JACKSON COUNTY HISTORIC TRUMAN COURTHOUSE
LEAD ABATEMENT
 102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR CONSTRUCTION

PROJECT NO. Jackson County No. 3147
 DATE April 6, 2012
 DRAWN BY ML
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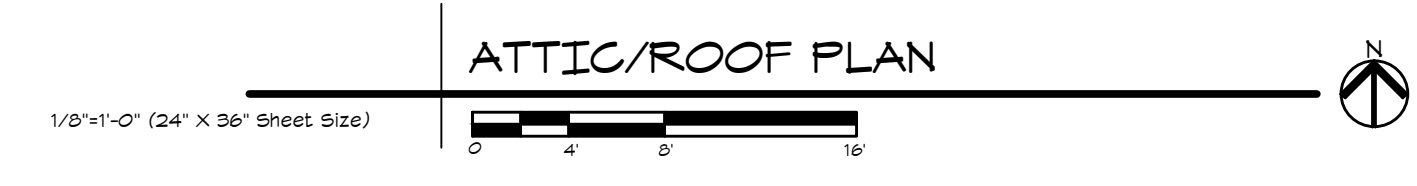
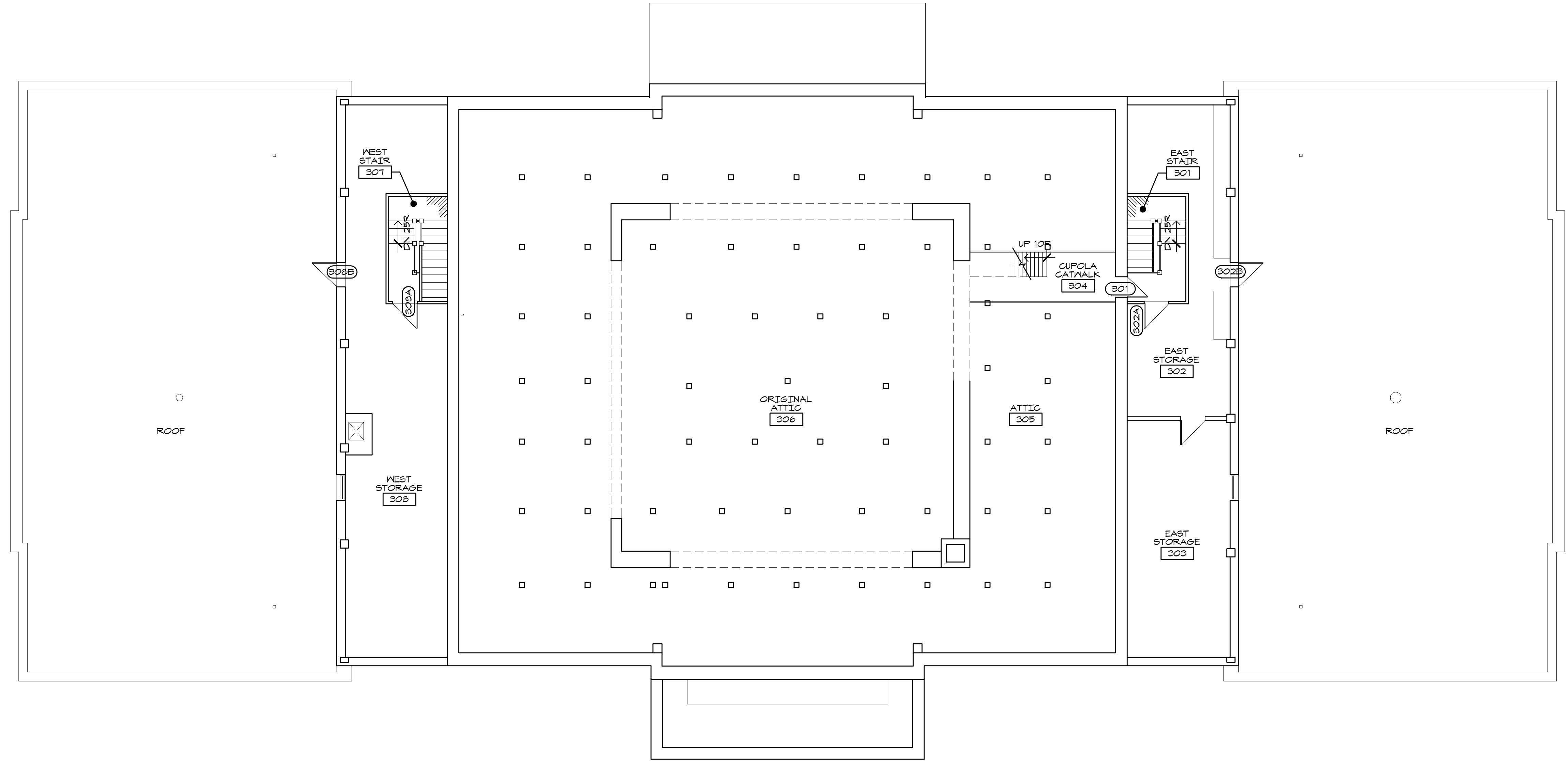
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- SYMBOLS LEGEND:**
- AAA ROOM NAME
 - ### ROOM NUMBER
 - ### DOOR NUMBER
 - ◇ WALL TYPE TAG 1
 - X'-X" CEILING HEIGHT TAG

- ABATEMENT LEGEND**
- ▨ DAMAGED WALL PAINT



PART 2 - SELECTIVE DEMOLITION

For:

Jackson County Historic Truman Courthouse Interior Renovation
Abatement, Remediation, and Selective Demolition
102 North Main Street
Independence, Missouri 64050
County Project No. 3147A
County Bid No. PW-02-2012

Prepared for:

*Jackson County Public Works Department
303 West Walnut Street
Independence, Missouri 64050*

April 16, 2012

Prepared by:

Piper-Wind Architects, Inc.
2121 Central Street, Suite 143
Kansas City, Missouri 64108
(816) 474-3050

TABLE OF CONTENTS

DIVISION 0 – PROCUREMENT AND CONTRACTING REQUIREMENTS

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	00007	Seals Page
	00015	List of Drawing Sheets

DIVISION 1 – GENERAL REQUIREMENTS

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	01290	Payment Procedures
	01310	Project Management and Coordination
	01320	Construction Progress Documentation
	01322	Photographic Documentation
	01330	Submittal Procedures
	01351	Special Procedures for Historic Treatment
	01400	Quality Requirements
	01500	Temporary Facilities and Controls
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	01770	Closeout Procedures
	01781	Project Record Documents

END OF TABLE OF CONTENTS SECTION 00003

DOCUMENT 00007 - SEALS PAGE

1.1 DESIGN PROFESSIONALS OF RECORD

ARCHITECT	Eric J. Piper, AIA Piper-Wind Architects, Inc. 2121 Central, Suite143 Kansas City, MO 64108 (816) 474-3050
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INDEX TO SELECTIVE DEMOLITION DRAWINGS
(All Drawings Dated April 6, 2012)

SHEET NO.	SHEET TITLE
AS-100	Architectural Site Plan
AD-100	Basement Selective Demolition Plan
AD-101	First Floor Selective Demolition Plan
AD-102	Second Floor Selective Demolition Plan
AD-103	Attic / Roof Selective Demolition Plan
AD-110	Basement Reflected Ceiling Selective Demolition Plan
AD-111	First Floor Reflected Ceiling Selective Demolition Plan
AD-112	Second Floor Reflected Ceiling Selective Demolition Plan

SECTION 01100 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Access to site.
4. Work restrictions.
5. Specification and drawing conventions.
6. Miscellaneous provisions.

B. Related Requirements:

1. Section 01500 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.2 PROJECT INFORMATION

A. Project Identification: Jackson County Historic Truman Courthouse Renovation. County Project No. 3147.

1. Project Location: 102 North Main Street, Independence, Missouri 64050

B. Owner: Jackson County Public Works Department, 303 West Walnut Street Independence, Missouri, 64050.

1. Owner's Representative: Mr. John M. McClernon, Project, Manager. Jackson County Public Works Engineering Division, 303 W. Walnut, Independence, Missouri 64050. Office: (816) 881-4530; Direct: (816) 881-4532.

C. Architect: Piper-Wind Architects, Inc., 2121 Central Street, Suite 143, Kansas City, Missouri 64108. (816) 474-3050. Principal: Eric J. Piper, AIA; Project Manager: Christopher A. Martin.

1.3 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and consists of the following:

1. Environmental abatement / remediation and selective demolition in support of the environmental abatement / remediation of the aforementioned building.

B. Type of Contract.

1. Project will be constructed under a single prime contract.

1.4 WORK UNDER SEPARATE CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts.

1. Restoration of existing historic tower clock.

- B. Subsequent Work: Owner will award separate contract(s) for the following additional work to be performed at site following Substantial Completion. Completion of that work will depend on successful completion of preparatory work under this Contract.

1. Interior Restoration, Rehabilitation and Renovation of building.

1.5 ACCESS TO SITE

- A. General: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.

- B. Use of Site: Limit use of Project site to interior of building as indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.

1. Limits: Confine construction operations to interior of building.
2. Limit site disturbance to interior of building and within asphalt parking areas adjacent to building for temporary dumpster locations.
3. Driveways, Walkways and Entrances: Keep driveways and entrances serving premises clear. Do not use these areas for parking or storage of materials.
 - a. Schedule deliveries to minimize use of entrances by construction operations.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

- C. Condition of Existing Building: Maintain portions of existing building and grounds affected by construction operations and in a weather-tight condition throughout environmental abatement / remediation period. Repair damage caused by construction operations as directed by Owner to original condition at Contractor's expense.

1.6 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.

1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.

2. Coordinate with City use of public parking areas for dumpster locations. Dumpsters will need to be removed off-site as indicated elsewhere in these specifications on specific days and/or weekends for scheduled City events.
- B. Existing Utility Interruptions: Do not interrupt utilities serving the Truman Courtroom or others required by the Owner unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
1. Notify Owner not less than two days in advance of proposed utility interruptions.
 2. Obtain Owner's written permission before proceeding with utility interruptions.
- C. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption with Owner. Abide by City noise ordinance at all times.
1. Notify Owner not less than two days in advance of proposed disruptive operations.
 2. Obtain Owner's written permission before proceeding with disruptive operations.
- D. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet (8 m) of entrances, operable windows, or outdoor-air intakes.
- E. Controlled Substances: Use of tobacco products and other controlled substances on Project site is not permitted.

1.7 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard and scheduled on Drawings.

1.8 MISCELLANEOUS PROVISIONS

- A. Protection of existing historic building and all its finishes to remain are of utmost importance during the abatement, remediation and selection demolition project.
- B. Contractor to coordinate with the use of the Courthouse Square for County and City activities during the duration of the project.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01100

SECTION 01250 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.

1.2 MINOR CHANGES IN THE WORK

- A. Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions."

1.3 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
 - 2. Within the time specified in Proposal Request, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include costs of labor and supervision directly attributable to the change.
 - d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
 - e. Quotation Form: Use forms acceptable to Architect.
- B. Contractor-Initiated Work Change Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect.

1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
4. Include costs of labor and supervision directly attributable to the change.
5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
6. Comply with requirements in Section 01635 "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.
7. Work Change Proposal Request Form: Use form acceptable to Architect.

1.4 ADMINISTRATIVE CHANGE ORDERS

- A. Allowance Adjustment: See Section 01210 "Allowances" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect actual costs of allowances.
- B. Unit-Price Adjustment: See Section 01270 "Unit Prices" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect measured scope of unit-price work.

1.5 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Work Changes Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document G701.

1.6 CONSTRUCTION CHANGE DIRECTIVE

- A. Work Change Directive: Architect may issue a Work Change Directive on AIA Document G714. Work Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 1. Work Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Work Change Directive.
 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

Jackson County Historic Truman Courthouse Interior Renovation
Abatement, Remediation, and Selective Demolition
102 North Main Street, Independence, Missouri 64050

April 16, 2012
County Project No. 3147A
County Bid No. PW-02-2012

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01250

SECTION 01290 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. Related Requirements:
 - 1. Section 01210 "Allowances" for procedural requirements governing the handling and processing of allowances.
 - 2. Section 01250 "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.
 - 3. Section 01320 "Construction Progress Documentation" for administrative requirements governing the preparation and submittal of Contractor's construction schedule.

1.2 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.
 - 1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:
 - a. Application for Payment forms with continuation sheets.
 - b. Submittal schedule.
 - c. Items required to be indicated as separate activities in Contractor's construction schedule.
 - 2. Submit the schedule of values to Architect at earliest possible date but no later than seven days before the date scheduled for submittal of initial Applications for Payment.
 - 3. Sub-schedules for Phased Work: Where the Work is separated into phases requiring separately phased payments, provide sub-schedules showing values coordinated with each phase of payment.
- B. Format and Content: Use Project Manual Table of Contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.
 - 1. Identification: Include the following Project identification on the schedule of values:
 - a. Project name and location.
 - b. Name of Architect.
 - c. Architect's project number.
 - d. Contractor's name and address.

- e. Date of submittal.
2. Arrange schedule of values consistent with format of AIA Document G703.
3. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with Project Manual table of contents. Provide multiple line items for principal subcontract amounts in excess of five percent of the Contract Sum.
 - a. Include separate line items under Contractor and principal subcontracts for Project closeout requirements in an amount totaling five percent of the Contract Sum and subcontract amount.
4. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
5. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
6. Provide separate line items in the schedule of values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
7. Allowances: Provide a separate line item in the schedule of values for each allowance. Show line-item value of unit-cost allowances, as a product of the unit cost, multiplied by measured quantity. Use information indicated in the Contract Documents to determine quantities.
8. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.
9. Schedule Updating: Update and resubmit the schedule of values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.3 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as certified by Architect and paid for by Owner.
 1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- B. Payment Application Times: The date for each progress payment is indicated in the Agreement between Owner and Contractor. The period of construction work covered by each Application for Payment is the period indicated in the Agreement.
- C. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 as forms or other forms acceptable to Owner and Architect for Applications for Payment.

- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
 2. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
- E. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Architect by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.
- F. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from entities lawfully entitled to file a mechanic's lien arising out of the Contract and related to the Work covered by the payment.
1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
 2. When an application shows completion of an item, submit conditional final or full waivers.
 3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
 4. Waiver Forms: Submit executed waivers of lien on forms acceptable to Owner.
- G. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
1. List of subcontractors.
 2. Schedule of values.
 3. Contractor's construction schedule (preliminary if not final).
 4. Schedule of unit prices, (if any).
 5. Submittal schedule (preliminary if not final).
 6. List of Contractor's staff assignments.
 7. List of Contractor's principal consultants.
 8. Copies of building permits.
 9. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
 10. Initial progress report.
 11. Report of pre-construction conference.
 12. Certificates of insurance and insurance policies.
- H. Application for Payment at Substantial Completion: After Architect issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.

1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
 2. This application shall reflect Certificates of Partial Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
- I. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
1. Evidence of completion of Project closeout requirements.
 2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
 3. Updated final statement, accounting for final changes to the Contract Sum.
 4. AIA Document G706-1994, "Contractor's Affidavit of Payment of Debts and Claims."
 5. AIA Document G706A-1994, "Contractor's Affidavit of Release of Liens."
 6. AIA Document G707-1994, "Consent of Surety to Final Payment."
 7. Evidence that claims have been settled.
 8. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.
 9. Final liquidated damages settlement statement.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01290

SECTION 01310 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. Coordination drawings.
 - 2. Requests for Information (RFIs).
 - 3. Project meetings.
- B. Related Requirements:
 - 1. Section 01700 "Execution Requirements" for procedures for coordinating general installation and field-engineering services.

1.2 DEFINITIONS

- A. RFI: Request from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

1.3 INFORMATIONAL SUBMITTALS

- A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work. Include the following information in tabular form:
 - 1. Name, address, and telephone number of entity performing subcontract or supplying products.
 - 2. Number and title of related Specification Section(s) covered by subcontract.
 - 3. Drawing number and detail references, as appropriate, covered by subcontract.

1.4 GENERAL COORDINATION PROCEDURES

- A. Coordination: Coordinate operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections, which depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.

3. Make adequate provisions to accommodate items scheduled for later installation.
- B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
1. Preparation of Contractor's construction schedule.
 2. Preparation of the schedule of values.
 3. Installation and removal of temporary facilities and controls.
 4. Delivery and processing of submittals.
 5. Progress meetings.
 6. Pre-installation conferences.
 7. Project closeout activities.

1.5 COORDINATION DRAWINGS

- A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
1. Review: Architect will review coordination drawings to confirm that the Work is being coordinated, but not for the details of the coordination, which are Contractor's responsibility.

1.6 REQUESTS FOR INFORMATION (RFIs)

- A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
 2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
1. Project name.
 2. Project number.
 3. Date.

4. Name of Contractor.
 5. Name of Architect.
 6. RFI number, numbered sequentially.
 7. RFI subject.
 8. Specification Section number and title and related paragraphs, as appropriate.
 9. Drawing number and detail references, as appropriate.
 10. Field dimensions and conditions, as appropriate.
 11. Contractor's suggested resolution. If Contractor's solution(s) impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 12. Contractor's signature.
 13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
- C. RFI Forms: AIA Document G716, or Software-generated form with substantially the same content as indicated above, acceptable to Architect.
- D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow three working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
1. The following RFIs will be returned without action:
 - a. Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - c. Requests for coordination information already indicated in the Contract Documents.
 - d. Requests for adjustments in the Contract Time or the Contract Sum.
 - e. Requests for interpretation of Architect's actions on submittals.
 - f. Incomplete RFIs or inaccurately prepared RFIs.
 2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
 3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 01250 "Contract Modification Procedures."
 - a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 2 days of receipt of the RFI response.
- E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. Use Software log with not less than the following:
1. Project name.
 2. Name and address of Contractor.
 3. Name and address of Architect.
 4. RFI number including RFIs that were dropped and not submitted.
 5. RFI description.
 6. Date the RFI was submitted.

7. Date Architect's response was received.
- F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within three days if Contractor disagrees with response.
1. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.
 2. Identification of related Field Order, Work Change Directive, and Proposal Request, as appropriate.

1.7 PROJECT MEETINGS

- A. General: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.
1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
 2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
 3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within three days of the meeting.
- B. Pre-demolition / abatement Conference: Owner will schedule and conduct a pre-demolition / abatement construction conference before starting selective demolition / abatement, at a time convenient to Owner and Architect, but no later than 7 days after execution of the Agreement.
1. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 2. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Critical work sequencing.
 - c. Designation of key personnel and their duties.
 - d. Procedures for processing field decisions and Change Orders.
 - e. Procedures for RFIs.
 - f. Procedures for testing and inspecting.
 - g. Procedures for processing Applications for Payment.
 - h. Distribution of the Contract Documents.
 - i. Submittal procedures.
 - j. Preparation of record documents.
 - k. Use of the premises and existing building.
 - l. Work restrictions.
 - m. Working hours.
 - n. Responsibility for temporary facilities and controls.

- o. Procedures for moisture and mold control.
 - p. Procedures for disruptions and shutdowns.
 - q. Construction waste management and recycling.
 - r. Parking availability.
 - s. Office, work, and storage areas.
 - t. Equipment deliveries and priorities.
 - u. First aid.
 - v. Security.
 - w. Progress cleaning.
3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.
- C. Progress Meetings: Conduct progress meetings at biweekly intervals.
1. Attendees: In addition to representatives of Owner and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
 2. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - 1) Review schedule for next period.
 - b. Review present and future needs of each entity present, including the following:
 - 1) Interface requirements.
 - 2) Sequence of operations.
 - 3) Status of submittals.
 - 4) Deliveries.
 - 5) Access.
 - 6) Site utilization.
 - 7) Temporary facilities and controls.
 - 8) Progress cleaning.
 - 9) Quality and work standards.
 - 10) Status of correction of deficient items.
 - 11) Field observations.
 - 12) Status of RFIs.
 - 13) Status of proposal requests.
 - 14) Pending changes.
 - 15) Status of Change Orders.

- 16) Pending claims and disputes.
 - 17) Documentation of information for payment requests.
3. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.
 - a. Schedule Updating: Revise Contractor's construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01310

SECTION 01320 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
1. Contractor's construction schedule.
 2. Construction schedule updating reports.
 3. Daily construction reports.
 4. Site condition reports.

1.2 DEFINITIONS

- A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.
1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
 2. Predecessor Activity: An activity that precedes another activity in the network.
 3. Successor Activity: An activity that follows another activity in the network.
- B. CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of Project.
- C. Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.
- D. Float: The measure of leeway in starting and completing an activity.
1. Float time is not for the exclusive use or benefit of either Owner or Contractor, but is a jointly owned, expiring Project resource available to both parties as needed to meet schedule milestones and Contract completion date.

1.3 INFORMATIONAL SUBMITTALS

- A. Format for Submittals: Submit required submittals in the following format:
1. Working electronic copy of schedule file, where indicated.
 2. PDF electronic file.
 3. Three paper copies.

- B. Startup Network Diagram: Of size required to display entire network for entire construction period. Show logic ties for activities.
- C. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.
 - 1. Submit a working electronic copy of schedule, using software indicated, and labeled to comply with requirements for submittals. Include type of schedule (initial or updated) and date on label.
- D. Construction Schedule Updating Reports: Submit with Applications for Payment.
- E. Daily Construction Reports: Submit at bi-weekly intervals.
- F. Site Condition Reports: Submit at time of discovery of differing conditions.

1.4 COORDINATION

- A. Coordinate Contractor's construction schedule with the schedule of values, list of subcontracts, submittal schedule, progress reports, payment requests, and other required schedules and reports.
 - 1. Secure time commitments for performing critical elements of the Work from entities involved.
 - 2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.

PART 2 - PRODUCTS

2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

- A. Time Frame: Extend schedule from date established for the Notice to Proceed to date of final completion.
 - 1. Contract completion date shall not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by Change Order.
- B. Activities: Treat each separate area as a separate numbered activity for each main element of the Work. Comply with the following:
 - 1. Activity Duration: Define activities so no activity is longer than 20 days, unless specifically allowed by Architect.
 - 2. Submittal Review Time: Include review and re-submittal times indicated in Section 01330 "Submittal Procedures" in schedule. Coordinate submittal review times in Contractor's construction schedule with submittal schedule.

3. Substantial Completion: Indicate completion in advance of date established for Substantial Completion, and allow time for Architect's administrative procedures necessary for certification of Substantial Completion.
 4. Punch List and Final Completion: Include not more than 14 days for completion of punch list items and final completion.
- C. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.
1. Phasing: Arrange list of activities on schedule by phase.
 2. Work Restrictions: Show the effect, if any, of the following items on the schedule:
 - a. Uninterruptible services.
 - b. Use of premises restrictions.
 - c. Provisions for future construction.
 - d. Seasonal variations.
 - e. Environmental control.
 3. Work Stages: Indicate important stages of construction for each major portion of the Work.
- D. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and final completion.
- E. Upcoming Work Summary: Prepare summary report indicating activities scheduled to occur or commence prior to submittal of next schedule update. Summarize the following issues:
1. Unresolved issues.
 2. Unanswered Requests for Information.
 3. Rejected or unreturned submittals.
 4. Notations on returned submittals.
 5. Pending modifications affecting the Work and Contract Time.
- F. Recovery Schedule: When periodic update indicates the Work is 7 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the schedule.
- G. Computer Scheduling Software: Prepare schedules using a program that has been developed specifically to manage construction schedules.
- 2.2 CONTRACTOR'S CONSTRUCTION SCHEDULE (GANTT CHART)
- A. Gantt-Chart Schedule: Submit a comprehensive, fully developed, horizontal, Gantt-chart-type, Contractor's construction schedule within seven days of date established for the Notice to Proceed.
 - B. Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line.

2.3 REPORTS

- A. Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project site:
1. List of subcontractors at Project site.
 2. List of separate contractors at Project site.
 3. Approximate count of personnel at Project site.
 4. Equipment at Project site.
 5. Material deliveries.
 6. High and low temperatures and general weather conditions, including presence of rain or snow.
 7. Accidents.
 8. Meetings and significant decisions.
 9. Unusual events.
 10. Stoppages, delays, shortages, and losses.
 11. Emergency procedures.
 12. Orders and requests of authorities having jurisdiction.
 13. Change Orders received and implemented.
 14. Work Change Directives received and implemented.
 15. Services connected and disconnected.
 16. Partial completions and occupancies.
 17. Substantial Completions authorized.
- B. Site Condition Reports: Immediately on discovery of a difference between site conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

PART 3 - EXECUTION

3.1 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Contractor's Construction Schedule Updating: At biweekly intervals, update schedule to reflect actual construction progress and activities. Issue schedule two days before each regularly scheduled progress meeting.
1. Revise schedule immediately after each meeting or other activity where revisions have been recognized or made. Issue updated schedule concurrently with the report of each such meeting.
 2. Include a report with updated schedule that indicates every change, including, but not limited to, changes in logic, durations, actual starts and finishes, and activity durations.
 3. As the Work progresses, indicate final completion percentage for each activity.
- B. Distribution: Distribute copies of approved schedule to Architect, Owner, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.

1. Post copies in Project meeting rooms and temporary field offices.
2. When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

END OF SECTION 01320

SECTION 01322 - PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Pre-construction photographs.
 - 2. Periodic construction photographs.
- B. Related Requirements:
 - 1. Section 01770 "Closeout Procedures" for submitting photographic documentation as Project Record Documents at Project closeout.

1.2 INFORMATIONAL SUBMITTALS

- A. Key Plan: Submit key plan of Project site and building with notation of vantage points marked for location and direction of each photograph. Indicate elevation or story of construction. Include same information as corresponding photographic documentation.
- B. Digital Photographs: Submit unaltered, original, full-size image files within three days of taking the photographs.
 - 1. Digital Camera: Minimum sensor resolution of 8 megapixels.
 - 2. Identification: Provide the following information with each image description in file metadata tag:
 - a. Name of Project.
 - b. Date photograph was taken.
 - c. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.

PART 2 - PRODUCTS

2.1 PHOTOGRAPHIC MEDIA

- A. Digital Images: Provide images in JPG format, with minimum size of 8 megapixels.

PART 3 - EXECUTION

3.1 CONSTRUCTION PHOTOGRAPHS

- A. General: Take photographs using the maximum range of depth of field, and that are in focus, to clearly show the Work. Photographs with blurry or out-of-focus areas will not be accepted.
 - 1. Maintain key plan with each set of construction photographs that identifies each photographic location.
- B. Digital Images: Submit digital images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.
 - 1. Date and Time: Include date and time in file name for each image.
 - 2. Field Office Images: Maintain one set of images accessible in the field office at Project site, available at all times for reference. Identify images in the same manner as those submitted to Architect.
- C. Preconstruction Photographs: Before commencement of demolition, take photographs of Project site, including existing items to remain during construction, from different vantage points, as directed by Architect.
 - 1. Take at least 20 color photographs to show existing site conditions before starting the Work.
 - 2. Take at least 50 color photographs of the existing building to accurately record physical conditions at start of construction.
- D. Periodic Selective Demolition / Abatement / Remediation Photographs: Take 20 color photographs weekly, with timing each month adjusted to coincide with the cutoff date associated with each Application for Payment. Select vantage points to show status of construction and progress since last photographs were taken.
- E. Final Completion Selective Demolition / Abatement / Remediation Photographs: Take 50 color photographs after date of Substantial Completion for submission as Project Record Documents. Architect will inform contractor of desired vantage points.
- F. Additional Photographs: Architect may request photographs in addition to periodic photographs specified.
 - 1. Three days' notice will be given, where feasible.
 - 2. In emergency situations, take additional photographs within 24 hours of request.
 - 3. Circumstances that could require additional photographs include, but are not limited to, the following:
 - a. Immediate follow-up when on-site events result in construction damage or losses.
 - b. Substantial Completion of a major phase or component of the Work.

END OF SECTION 01322

SECTION 01330 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.
- B. Related Requirements:
 - 1. Section 01320 "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.
 - 2. Section 01781 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.2 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action.
- B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements.

1.3 ACTION SUBMITTALS

- A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1.4 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Architect's Digital Data Files: Electronic copies of digital data files of the Contract Drawings may be provided by Architect for Contractor's use in preparing submittals.
 - 1. Architect makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
 - 2. Contractor shall execute a data licensing agreement in the form of AIA Document C106, Digital Data Licensing Agreement.

- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
1. Coordinate each submittal with other submittals, and related activities that require sequential activity.
 2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 1. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for re-submittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including re-submittals.
1. Initial Review: Allow seven days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 3. Re-submittal Review: Allow seven days for review of each re-submittal.
- D. Paper Submittals: Place a permanent label or title block on each submittal item for identification.
1. Indicate name of firm or entity that prepared each submittal on label or title block.
 2. Provide a space approximately 6 by 8 inches (150 by 200 mm) on label or beside title block to record Contractor's review and approval markings and action taken by Architect.
 3. Include the following information for processing and recording action taken:
 1. Project name.
 2. Date.
 3. Name of Architect.
 4. Name of Construction Manager.
 5. Name of Contractor.
 6. Name of subcontractor.
 7. Name of supplier.
 8. Name of manufacturer.
 9. Submittal number or other unique identifier, including revision identifier.
 - 1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 06100.01). Re-submittals shall include an alphabetic suffix after another decimal point (e.g., 06100.01.A).
 10. Number and title of appropriate Specification Section.
 11. Drawing number and detail references, as appropriate.
 12. Location(s) where product is to be installed, as appropriate.

13. Other necessary identification.
4. Additional Paper Copies: Unless additional copies are required for final submittal, and unless Architect observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.
 1. Submit one copy of submittal to concurrent reviewer in addition to specified number of copies to Architect.
5. Transmittal for Paper Submittals: Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Architect will return without review submittals received from sources other than Contractor.
 1. Transmittal Form for Paper Submittals: Use AIA Document G810, or provide locations on form for the following information:
 - 1) Project name.
 - 2) Date.
 - 3) Destination (To:).
 - 4) Source (From:).
 - 5) Name and address of Architect.
 - 6) Name of Construction Manager.
 - 7) Name of Contractor.
 - 8) Name of firm or entity that prepared submittal.
 - 9) Names of subcontractor, manufacturer, and supplier.
 - 10) Category and type of submittal.
 - 11) Submittal purpose and description.
 - 12) Specification Section number and title.
 - 13) Specification paragraph number or drawing designation and generic name for each of multiple items.
 - 14) Drawing number and detail references, as appropriate.
 - 15) Indication of full or partial submittal.
 - 16) Transmittal number, numbered consecutively.
 - 17) Submittal and transmittal distribution record.
 - 18) Remarks.
 - 19) Signature of transmitter.
- E. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:
 1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
 2. Name file with submittal number or other unique identifier, including revision identifier.
 1. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-06100.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-06100.01.A).

3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.
4. Transmittal Form for Electronic Submittals: Use electronic form acceptable to Owner, containing the following information:
 1. Project name.
 2. Date.
 3. Name and address of Architect.
 4. Name of Construction Manager.
 5. Name of Contractor.
 6. Name of firm or entity that prepared submittal.
 7. Names of subcontractor, manufacturer, and supplier.
 8. Category and type of submittal.
 9. Submittal purpose and description.
 10. Specification Section number and title.
 11. Specification paragraph number or drawing designation and generic name for each of multiple items.
 12. Drawing number and detail references, as appropriate.
 13. Location(s) where product is to be installed, as appropriate.
 14. Related physical samples submitted directly.
 15. Indication of full or partial submittal.
 16. Transmittal number, numbered consecutively.
 17. Submittal and transmittal distribution record.
 18. Other necessary identification.
 19. Remarks.
5. Metadata: Include the following information as keywords in the electronic submittal file metadata:
 1. Project name.
 2. Number and title of appropriate Specification Section.
 3. Manufacturer name.
 4. Product name.
- F. Options: Identify options requiring selection by Architect.
- G. Deviations: Identify deviations from the Contract Documents on submittals.
- H. Re-submittals: Make re-submittals in same form and number of copies as initial submittal.
 1. Note date and content of previous submittal.
 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.
- I. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

- J. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

A. General Submittal Procedure Requirements:

1. Submit electronic submittals via email as PDF electronic files.
 1. Architect will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.
 2. Action Submittals: Submit five paper copies of each submittal unless otherwise indicated. Architect will return two copies.
 3. Informational Submittals: Submit five paper copies of each submittal unless otherwise indicated. Architect will not return copies.
 4. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 1. Provide a digital signature with digital certificate on electronically-submitted certificates and certifications where indicated.
 2. Provide a notarized statement on original paper copy certificates and certifications where indicated.

B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.

1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
2. Mark each copy of each submittal to show which products and options are applicable.
3. Include the following information, as applicable:
 1. Manufacturer's catalog cuts.
 2. Manufacturer's product specifications.
 3. Statement of compliance with specified referenced standards.
 4. Testing by recognized testing agency.
 5. Application of testing agency labels and seals.
 6. Notation of coordination requirements.
 7. Availability and delivery time information.
4. Submit Product Data in the following format:
 1. PDF electronic file.

2. Five paper copies of Product Data unless otherwise indicated. Architect will return two copies.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless submittal based on Architect's digital data drawing files is otherwise permitted.
1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 1. Identification of products.
 2. Schedules.
 3. Compliance with specified standards.
 4. Notation of coordination requirements.
 5. Notation of dimensions established by field measurement.
 6. Relationship and attachment to adjoining construction clearly indicated.
 7. Seal and signature of professional engineer if specified.
 2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches (215 by 280 mm), but no larger than 30 by 42 inches (750 by 1067 mm).
 3. Submit Shop Drawings in the following format:
 1. PDF electronic file.
 2. Five opaque (bond) copies of each submittal. Architect, will return one copy.
 3. Five opaque copies of each submittal. Architect will retain three copies; remainder will be returned.
- D. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
1. Submit product schedule in the following format:
 1. PDF electronic file.
 2. Five paper copies of product schedule or list unless otherwise indicated. Architect will return two copies.
- E. Coordination Drawings Submittals: Comply with requirements specified in Section 01310 "Project Management and Coordination."
- F. Contractor's Construction Schedule: Comply with requirements specified in Section 01320 "Construction Progress Documentation."
- G. Application for Payment and Schedule of Values: Comply with requirements specified in Section 01290 "Payment Procedures."
- H. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Section 01400 "Quality Requirements."

- I. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 01770 "Closeout Procedures."
- J. Maintenance Data: Comply with requirements specified in Section 01782 "Operation and Maintenance Data."
- K. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- L. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.
- M. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
- N. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
- O. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- P. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
- Q. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
- R. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
- S. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project.
- T. Schedule of Tests and Inspections: Comply with requirements specified in Section 01400 "Quality Requirements."
- U. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
- V. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed

before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.

- W. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
- X. Design Data: Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

2.2 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF electronic file and five paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
 - 1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Project Closeout and Maintenance Material Submittals: See requirements in Section 01770 "Closeout Procedures."
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

- A. General: Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action.
- B. Action Submittals: Architect will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.
- C. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for re-submittal without review.
- E. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

END OF SECTION 01330

SECTION 01351 - SPECIAL PROCEDURES FOR HISTORIC TREATMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes general protection and treatment procedures for designated historic spaces, areas, rooms, and surfaces in entire Project and related to the following specific work:
 - 1. Historic removal and dismantling.
 - 2. Avian Feces Remediation.
 - 3. Lead-Based Paint Abatement
 - 4. Asbestos Abatement
 - 5. Fungal Remediation

1.2 DEFINITIONS

- A. Consolidate: To strengthen loose or deteriorated materials in place.
- B. Dismantle: To disassemble and detach items by hand from existing construction to the limits indicated, using small hand tools and small one-hand power tools, so as to protect nearby historic surfaces; and legally dispose of dismantled items off-site, unless indicated to be salvaged or reinstalled.
- C. Existing to Remain: Existing items that are not to be removed or dismantled.
- D. Historic: Spaces, areas, rooms, surfaces, materials, finishes, and overall appearance which are important to the successful preservation, rehabilitation, restoration and reconstruction as determined by Architect. Designated historic spaces, areas, rooms and surfaces are indicated on Drawings and scheduled in this Section.
 - 1. Restoration Zones: Areas of greatest architectural importance, integrity, and visibility; to be preserved and restored to the original design and finish as shown on Drawings:
 - 2. Renovation Zones: Areas of significant architectural importance, integrity, and visibility; to be preserved and restored consistent with the remaining historic fabric and to the extent shown on Drawings:
 - 3. Alteration Zones: Areas of slight architectural importance, integrity, and visibility; to leave any remaining original fabric untouched insofar as is consistent with accommodating modern uses for the building as shown on Drawings:
- E. Match: To blend with adjacent construction and manifest no apparent difference in material type, species, cut, form, detail, color, grain, texture, or finish; as approved by Architect.
- F. Reconstruct: To remove existing item, replicate damaged or missing components, and reinstall in original position.

- G. Refinish: To remove existing finishes to base material and apply new finish to match original, or as otherwise indicated.
- H. Reinstall: To protect removed or dismantled item, repair and clean it as indicated for reuse, and reinstall it in original position, or where indicated.
- I. Remove: Specifically for historic spaces, areas, rooms, and surfaces, the term means to detach an item from existing construction to the limits indicated, using hand tools and hand-operated power equipment, and legally dispose of it off-site, unless indicated to be salvaged or reinstalled.
- J. Repair: To correct damage and defects, retaining existing materials, features, and finishes while employing as little new material as possible. Includes patching, piecing-in, splicing, consolidating, or otherwise reinforcing or upgrading materials.
- K. Replace: To remove, duplicate, and reinstall entire item with new material. The original item is the pattern for creating duplicates unless otherwise indicated.
- L. Replicate: To reproduce in exact detail, materials, and finish unless otherwise indicated.
- M. Reproduce: To fabricate a new item, accurate in detail to the original, and in either the same or a similar material as the original, unless otherwise indicated.
- N. Restore: To consolidate, replicate, reproduce, repair, and refinish as required to achieve the indicated results.
- O. Retain: To keep existing items that are not to be removed or dismantled.
- P. Reversible: New construction work, treatments, or processes that can be removed or undone in the future without damaging historic materials unless otherwise indicated.
- Q. Salvage: To protect removed or dismantled items and deliver them to Owner.
- R. Stabilize: To provide structural reinforcement of unsafe or deteriorated items while maintaining the essential form as it exists at present; also, to reestablish a weather-resistant enclosure.
- S. Strip: To remove existing finish down to base material unless otherwise indicated.

1.3 INFORMATIONAL SUBMITTALS

- A. Construction Schedule for Historic Treatments: Indicate for entire Project the following for each activity to be performed in historic spaces, areas, and rooms, and on historic surfaces:
 - 1. Detailed sequence of historic treatment work, with starting and ending dates, and other known work in progress.
- B. Qualification Data: For historic treatment specialist, historic removal and dismantling specialist, historic removal and dismantling specialist's field supervisors, historic removal and dismantling specialist's workers.

- C. Preconstruction Documentation: Show preexisting conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by Contractor's historic treatment operations.
- D. Historic Treatment Program: Submit before work begins.
- E. Fire-Prevention Plan: Submit before work begins.

1.4 QUALITY ASSURANCE

- A. Historic Treatment Specialist Qualifications: An experienced firm regularly engaged in historic treatments similar in nature, materials, design, and extent to this work as specified in each section, and that has completed a minimum of five recent projects with a record of successful in-service performance that demonstrate the firm's qualifications to perform this work.
 - 1. Field Supervisor Qualifications: Full-time supervisors experienced in historic treatment work similar in nature, material, design, and extent to that indicated for this Project. Supervisors shall be on Project site during times that historic treatment work is in progress.
 - 2. Supervisors shall not be changed during Project except for causes beyond the control of the specialist firm.
 - 3. Worker Qualification: Persons who are experienced in historic treatment work of types they will be performing.
- B. Historic Treatment Program: Prepare a written plan for historic treatment for whole Project, including each phase or process and protection of surrounding materials during operations. Describe in detail materials, methods, and equipment to be used for each phase of work. Show compliance with indicated methods and procedures specified in this and other Sections.
 - 1. Dust and Noise Control: Include locations of proposed temporary dust- and noise-control partitions.
 - 2. Debris Hauling: Include plans clearly marked to show debris hauling routes, turning radii, and locations and details of temporary protective barriers.
- C. Fire-Prevention Plan: Prepare a written plan for preventing fires during the Work, including placement of fire extinguishers, fire blankets, rag buckets, and other fire-prevention devices during each phase or process. Coordinate plan with Owner's fire-protection equipment and requirements. Include each fire watch's training, duties, and authority to enforce fire safety.
- D. Regulatory Requirements: Comply with notification regulations of authorities having jurisdiction before beginning removal and dismantling work. Comply with hauling and disposal regulations of authorities having jurisdiction.
- E. Standards: Comply with ANSI/ASSE A10.6.
- F. Historic Treatment Preconstruction Conference: Conduct conference at Project site.

1.5 STORAGE AND PROTECTION OF HISTORIC MATERIALS

A. Salvaged Historic Materials:

1. Clean only loose debris from salvaged historic items unless more extensive cleaning is indicated.
2. Inventory, Photograph, and Pack or crate items after cleaning; cushion against damage during handling. Label contents of containers.
3. Store items in a secure area until delivery to Owner.
4. Transport items to Owner's storage area designated by Owner.
5. Protect items from damage during transport and storage.

B. Existing Historic Materials to Remain: Protect construction indicated to remain against damage and soiling from construction work. Where permitted by Architect, items may be dismantled and taken to a suitable, protected storage location during construction work and reinstalled in their original locations after historic treatment and construction work in the vicinity is complete.

C. Storage and Protection: When taken from their existing locations, catalog and store historic items within a weather-tight enclosure where they are protected from wetting by rain, snow, condensation, or ground water, and from freezing temperatures.

1. Identify each item with a nonpermanent mark to document its original location. Indicate original locations on plans elevations, sections, or photographs by annotating the identifying marks.
2. Secure stored materials to protect from theft.

1.6 PROJECT CONDITIONS

A. Hazardous Materials: Hazardous materials are present in construction affected by removal and dismantling work. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present.

1. Hazardous material, fungal and avian feces remediation is specified elsewhere in the Contract Documents.
2. Do not disturb hazardous materials or items suspected of containing hazardous materials, fungal or avian feces except under procedures specified elsewhere in the Contract Documents.

B. Storage or sale of removed or dismantled items is not permitted unless otherwise indicated.

PART 2 - PRODUCTS - (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Preparation for Removal and Dismantling: Examine construction to be removed or dismantled to determine best methods to safely and effectively perform removal and dismantling work. Examine adjacent work to determine what protective measures will be necessary. Make explorations, probes, and inquiries as necessary to determine condition of construction to be removed or dismantled and location of utilities and services to remain that may be hidden by construction that is to be removed or dismantled.
 - 1. Verify that affected utilities have been disconnected and capped.
 - 2. Inventory and record the condition of items to be removed and dismantled for reinstallation or salvage.
- B. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs.
 - 1. Comply with requirements specified in Section 01322 "Photographic Documentation."
- C. Perform surveys as the Work progresses to detect hazards resulting from historic treatment procedures.

3.2 PROTECTION, GENERAL

- A. Comply with temporary barrier requirements in Section 01500 "Temporary Facilities and Controls."
- B. Ensure that supervisory personnel are on-site and on duty when historic treatment work begins and during its progress.
- C. Protect persons, motor vehicles, surrounding surfaces of building, building site, plants, and surrounding buildings from harm resulting from historic treatment procedures.
 - 1. Use only proven protection methods, appropriate to each area and surface being protected.
 - 2. Provide shoring, bracing, and supports as necessary. Do not overload structural elements.
 - 3. Protect floors and other surfaces along haul routes from damage, wear, and staining.
- D. Temporary Protection of Historic Materials:
 - 1. Protect existing historic materials with temporary protections and construction. Do not deface or remove existing materials.
 - 2. Do not attach temporary protection to historic surfaces except as indicated as part of the historic treatment program and approved by Architect.

- E. Comply with each product manufacturer's written instructions for protections and precautions. Protect against adverse effects of products and procedures on people and adjacent materials, components, and vegetation.
- F. Utility and Communications Services:
 - 1. Notify Owner, Architect, authorities having jurisdiction, and entities owning or controlling wires, conduits, pipes, and other services affected by the historic treatment work before commencing operations.
 - 2. Disconnect and cap pipes and services as required by authorities having jurisdiction, as required for the historic treatment work.
 - 3. Maintain existing services unless otherwise indicated; keep in service, and protect against damage during operations. Provide temporary services during interruptions to existing utilities.
- G. Existing Drains: Prior to the start of work in an area, test drainage system to ensure that it is functioning properly. Notify Architect immediately of inadequate drainage or blockage. Do not begin work in an area until the drainage system is in working order.
 - 1. Prevent solids such as stone or mortar residue from entering the drainage system. Clean out drains and drain lines that become sluggish or blocked by sand or other materials resulting from historic treatment work.
 - 2. Protect drains from pollutants. Block drains or filter out sediments, allowing only clean water to pass.

3.3 PROTECTION DURING APPLICATION OF CHEMICALS

- A. Protect surrounding surfaces of building being restored from harm or damage resulting from applications of chemical cleaners and paint removers.
- B. Cover adjacent surfaces with protective materials that are proven to resist chemicals selected for Project unless chemicals being used will not damage adjacent surfaces as indicated in historic treatment program. Use covering materials and masking agents that are waterproof, UV resistant, and will not stain or leave residue on surfaces to which they are applied. Apply protective materials according to manufacturer's written instructions. Do not apply liquid masking agents or adhesives to painted or porous surfaces. When no longer needed, promptly remove protective materials to prevent staining.

3.4 PROTECTION FROM FIRE

- A. General: Follow fire-prevention plan and the following.
 - 1. Comply with NFPA 241 requirements unless otherwise indicated.
 - 2. Perform duties entitled "Owner's Responsibility for Fire Protection."
 - 3. Remove and keep area free of combustibles including, rubbish, paper, waste, and chemicals, except to the degree necessary for the immediate work.

- a. If combustible material cannot be removed, provide fire blankets to cover such materials.
4. Prohibit smoking by all persons within Project work and staging areas.
- B. Heat-Generating Equipment and Combustible Materials: Comply with the following procedures while performing work with heat-generating equipment or highly combustible materials, including welding, torch-cutting, soldering, brazing, paint removal with heat, or other operations where open flames or implements utilizing high heat or combustible solvents and chemicals are anticipated:
 1. Obtain Owner's approval for operations involving use of open-flame or welding or other high-heat equipment.
 2. Use of open-flame equipment is not permitted. Notify Owner before each occurrence, indicating location of such work.
 3. As far as practical, restrict heat-generating equipment to shop areas.
 4. Do not perform work with heat-generating equipment in or near rooms or in areas where flammable liquids or explosive vapors are present or thought to be present. Use a combustible gas indicator test to ensure that the area is safe.
 5. Use fireproof baffles to prevent flames, sparks, hot gases, or other high-temperature material from reaching surrounding combustible material.
 6. Prevent the spread of sparks and particles of hot metal through open windows, doors, holes, and cracks in floors, walls, ceilings, roofs, and other openings.
 7. Fire Watch: Before working with heat-generating equipment or highly combustible materials, station personnel to serve as a fire watch at each location where such work is performed. Fire-watch personnel shall have the authority to enforce fire safety. Station fire watch according to NFPA 51B, NFPA 241, and as follows.
 - a. Train each fire watch in the proper operation of fire-control equipment and alarms.
 - b. Prohibit fire-watch personnel from other work that would be a distraction from fire-watch duties.
 - c. Cease work with heat-generating equipment whenever fire-watch personnel are not present.
 - d. Have fire watch perform final fire-safety inspection each day beginning no sooner than 30 minutes after conclusion of work at each area of Project site to detect hidden or smoldering fires and to ensure that proper fire-prevention is maintained.
 - e. Maintain fire-watch personnel at each area of Project site until 60 minutes after conclusion of daily work.
- C. Fire Extinguishers, Fire Blankets, and Rag Buckets: Maintain fire extinguishers, fire blankets, and rag buckets for disposal of rags with combustible liquids. Maintain each as suitable for the type of fire risk in each work area. Ensure that nearby personnel and the fire watch personnel are trained in fire-extinguisher and blanket operation.

3.5 GENERAL HISTORIC TREATMENT

- A. Ensure that supervisory personnel are present when historic treatment work begins and during its progress.

- B. Halt the process of deterioration and stabilize conditions, unless otherwise indicated. Perform work as indicated on Drawings. Follow the procedures in subparagraphs below and procedures approved in historic treatment program:
 - 1. Retain as much existing material as possible; repair and consolidate rather than replace.
 - 2. Use additional material or structure to reinforce, strengthen, prop, tie, and support existing material or structure.
 - 3. Use reversible processes wherever possible.
 - 4. Use historically accurate repair and replacement materials and techniques unless otherwise indicated.
 - 5. Record existing work before each procedure (preconstruction) and progress during the work with digital preconstruction documentation. Comply with requirements in Section 01322 "Photographic Documentation."
- C. Notify Architect of visible changes in the integrity of material or components whether due to environmental causes including biological attack, UV degradation, freezing, or thawing; or due to structural defects including cracks, movement, or distortion. Do not proceed with the work in question until directed by Architect.
- D. Where Work requires existing features to be removed or dismantled and reinstalled, perform these operations without damage to the material itself, to adjacent materials, or to the substrate.

3.6 HISTORIC REMOVAL AND DISMANTLING

- A. General: Have removal and dismantling work performed by a qualified historic treatment specialist. Perform work according to the historic treatment program.
- B. Water-Mist Sprinkling: Use water-mist sprinkling and other wet methods to control dust only with adequate, approved procedures and equipment that ensure that such water will not create a hazard or adversely affect other building areas or materials.
- C. Anchorages:
 - 1. Remove anchorages associated with removed items.
 - 2. Dismantle anchorages associated with dismantled items.

3.7 HISTORIC TREATMENT SCHEDULE

- A. Spaces, areas, rooms, and surfaces requiring special care and treatment to ensure successful preservation, rehabilitation, restoration and reconstruction are indicated on Drawings and generally described below.
 - 1. All hallways, stairways, Truman Courtroom and adjacent offices, Brady Courtroom, all woodwork, doors, windows, trim, window sills, cabinetry, plaster walls, ceilings, original hardware, bathroom finishes and plumbing fixtures.

END OF SECTION 01351

SECTION 01400 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 - 2. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.
 - 3. Specific test and inspection requirements are not specified in this Section.

1.2 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect.
- C. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.
- D. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.
- E. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g., plant, mill, factory, or shop.
- F. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- H. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).
- I. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of *five* previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.3 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Architect for a decision before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.4 INFORMATIONAL SUBMITTALS

- A. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.

1.5 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.

7. Identification of product and Specification Section.
 8. Complete test or inspection data.
 9. Test and inspection results and an interpretation of test results.
 10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 12. Name and signature of laboratory inspector.
 13. Recommendations on retesting and reinspecting.
- B. Manufacturer's Field Reports: Prepare written information documenting tests and inspections specified in other Sections. Include the following:
1. Name, address, and telephone number of representative making report.
 2. Statement on condition of substrates and their acceptability for installation of product.
 3. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
 4. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 5. Other required items indicated in individual Specification Sections.
- C. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.6 QUALITY ASSURANCE

- A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar in material, design, and extent to those indicated for this Project.

- F. Specialists: Certain Specification Sections require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
1. Requirements of authorities having jurisdiction shall supersede requirements for specialists.
- G. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 329, and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
 2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.
- H. Manufacturer's Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

1.7 QUALITY CONTROL

- A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.
 2. Costs for retesting and re-inspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted by Change Order.
- B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.
1. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 - a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.
 2. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
 3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 4. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.

5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- C. **Manufacturer's Field Services:** Where indicated, engage a manufacturer's representative to observe and inspect the Work. Manufacturer's representative's services include examination of substrates and conditions, verification of materials, inspection of completed portions of the Work, and submittal of written reports.
- D. **Retesting/Re-inspecting:** Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- E. **Testing Agency Responsibilities:** Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 6. Do not perform any duties of Contractor.
- F. **Associated Services:** Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 4. Facilities for storage and field curing of test samples.
 5. Delivery of samples to testing agencies.
 6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 7. Security and protection for samples and for testing and inspecting equipment at Project site.
- G. **Coordination:** Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.

1.8 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Owner will engage a qualified testing agency and special inspector to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner, and as follows:
1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviews the completeness and adequacy of those procedures to perform the Work.
 2. Notifying Architect, and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
 3. Submitting a certified written report of each test, inspection, and similar quality-control service to Architect, with copy to Contractor and to authorities having jurisdiction.
 4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
 5. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
 6. Retesting and re-inspecting corrected work.

PART 2 - EXECUTION

2.1 TEST AND INSPECTION LOG

- A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
1. Date test or inspection was conducted.
 2. Description of the Work tested or inspected.
 3. Date test or inspection results were transmitted to Architect.
 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.

2.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 01400

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
 - 1. Section 01100 "Summary" for limitations on work restrictions and utility interruptions.

1.2 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Architect, testing agencies, and authorities having jurisdiction.
- B. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections, backflow protection and extensions of services as required for construction operations.
- C. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

1.3 INFORMATIONAL SUBMITTALS

- A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for selective demolition, abatement and remediation personnel.
- B. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire prevention program.

1.4 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

PART 2 - PRODUCTS

2.1 TEMPORARY FACILITIES

- A. Field Offices, General: Use interior space approved by the Owner.
- B. Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly.
- C. Storage and Fabrication Sheds: None allowed on site. Use interior space as approved by the Owner only as necessary.

2.2 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
- B. HVAC Equipment: Unless Owner authorizes, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
 - 1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
 - 2. Heating Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities within the building where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company and Owner for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.
 - 1. Connect temporary sewers to municipal system as directed by authorities having jurisdiction.

- C. Water Service: Connect to Owner's existing water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- D. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
- E. Heating and Cooling: Provide temporary heating and cooling required by construction activities for protecting existing construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Maintain existing HVAC equipment operational in Truman Courtroom for duration of the project, except for as short as time as necessary to perform abatement and remediation work in this specific area as indicated.
- F. Ventilation and Humidity Control: Provide temporary ventilation required by demolition, abatement and remediation activities for protecting existing construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption. Maintain use of existing HVAC equipment for the conditioning of the Truman Courtroom and adjacent office suite for duration of project. Otherwise, all other HVAC equipment will not be operational during work.
- G. Electric Power Service: Connect to Owner's existing electric power service. Maintain equipment in a condition acceptable to Owner.
- H. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
- I. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install one telephone line(s) for each field office.
 - 1. Provide additional telephone lines for the following:
 - a. Provide a dedicated telephone line for each facsimile machine in each field office.
 - 2. At each telephone, post a list of important telephone numbers.
 - a. Police and fire departments.
 - b. Ambulance service.
 - c. Contractor's home office.
 - d. Contractor's emergency after-hours telephone number.
 - e. Architect's office.
 - f. Engineers' offices.
 - g. Owner's office.
 - h. Principal subcontractors' field and home offices.

3. Provide superintendent with cellular telephone or portable two-way radio for use when away from field office.

3.3 SUPPORT FACILITIES INSTALLATION

A. General: Comply with the following:

1. Provide for temporary offices within construction area.
2. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

B. Traffic Controls: Comply with requirements of authorities having jurisdiction.

1. Protect existing site improvements including curbs, pavement, and utilities.
2. Maintain access for fire-fighting equipment and access to fire hydrants.

C. Parking: Provide temporary parking areas for construction personnel. City and County Public parking lots two blocks north and south of project site are available for use by construction personnel.

D. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.

1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
2. Remove snow and ice as required to minimize accumulations.

E. Waste Disposal Facilities: Comply with requirements specified in Section 01524 "Construction Waste Management" and the Abatement and Remediation work specified in Part One. Waste Disposal Facilities shall be removed from project site on days indicated for City and/or County full use of site and surrounding parking.

F. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.

1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

G. Existing Stair Usage: Use of Owner's existing stairs will be permitted, provided stairs are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore stairs to condition existing before initial use.

1. Provide protective coverings, barriers, devices, signs, or other procedures to protect stairs and to maintain means of egress. If stairs become damaged, restore damaged areas so no evidence remains of correction work.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- C. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using environmentally safe materials.
- D. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- E. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weather-tight enclosure for building exterior.
 - 1. Where heating or cooling is needed and permanent enclosure is not complete, insulate temporary enclosures.
- F. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire prevention program.
 - 1. Prohibit smoking in construction areas.
 - 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 - 3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
 - 4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.5 MOISTURE AND MOLD CONTROL

- A. Contractor's Moisture Protection Plan: Avoid trapping water in finished work. Document visible signs of mold that may appear during construction.
- B. Controlled Construction Phase of Construction: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:
 - 1. Control moisture and humidity inside building by maintaining effective dry-in conditions.

2. Remove materials that cannot be completely restored to their manufactured moisture level within 48 hours.
3. Refer to Part One Abatement and Remediation Plan for environmental and mold abatement specifications.

3.6 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 1. Materials and facilities that constitute temporary facilities are property of Contractor.
 2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 01770 "Closeout Procedures."

END OF SECTION 01500

SECTION 01524 - CONSTRUCTION WASTE MANAGEMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Salvaging nonhazardous demolition waste.
 - 2. Recycling nonhazardous demolition waste.
 - 3. Disposing of nonhazardous demolition waste.
- B. Related Requirements:
 - 1. Section 01732 "Selective Demolition" for disposition of nonhazardous waste resulting from partial demolition of buildings and structures.
 - 2. Part One – Remediation and Abatement Plan for disposal of hazardous waste.

1.2 DEFINITIONS

- A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.
- C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
- E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
- F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.3 PERFORMANCE REQUIREMENTS

- A. General: Facilitate recycling and salvage of materials.

1.4 ACTION SUBMITTALS

- A. Waste Management Plan: Submit plan within 7 days of date established for the Notice to Proceed.

1.5 INFORMATIONAL SUBMITTALS

- A. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.
- B. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.
- C. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- D. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoice, as outlined in the Part One – Abatement and Remediation Specifications.

1.6 QUALITY ASSURANCE

- A. Waste Management Conference: Conduct conference at Project site to comply with requirements in Section 01310 "Project Management and Coordination."

1.7 WASTE MANAGEMENT PLAN

- A. General: Develop a waste management plan according to ASTM E 1609 and requirements in this Section. Plan shall consist of waste identification, waste reduction work plan, and cost/revenue analysis.
- B. Waste Identification: Indicate anticipated types and quantities of demolition waste generated by the Work. Include estimated quantities and assumptions for estimates.
- C. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Include points of waste generation, total quantity of each type of waste, quantity for each means of recovery, and handling and transportation procedures.
 - 1. Salvaged Materials for Reuse: For materials that will be salvaged and reused in this Project, describe methods for preparing salvaged materials before incorporation into the Work.
 - 2. Salvaged Materials for Sale: For materials that will be sold to individuals and organizations, include list of their names, addresses, and telephone numbers.
 - 3. Salvaged Materials for Donation: For materials that will be donated to individuals and organizations, include list of their names, addresses, and telephone numbers.

4. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
5. Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility.
6. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location where materials separation will be performed.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

- A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
- B. Waste Management Coordinator: Assign a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan.
- C. Coordinator shall be present at Project site full time for duration of Project.
- D. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.
 1. Distribute waste management plan to everyone concerned within three days of submittal return.
 2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.
- E. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.
 2. Comply with Section 01500 "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

3.2 SALVAGING DEMOLITION WASTE

- A. Salvaged Items for Reuse in the Work:
 1. Clean salvaged items.
 2. Inventory, photograph, pack or crate items after cleaning. Identify contents of containers.

3. Store items in a secure area until installation.
4. Protect items from damage during transport and storage.

B. Salvaged Items for Sale and/or Donation: Permitted on Project site.

C. Salvaged Items for Owner's Use:

1. Clean salvaged items.
2. Inventory, photographs, pack or crate items after cleaning. Identify contents of containers.
3. Store items in a secure area until delivery to Owner.
4. Transport items to Owner's storage area designated by Owner.
5. Protect items from damage during transport and storage.

3.3 RECYCLING DEMOLITION WASTE, GENERAL

A. General: Recycle paper and beverage containers used by on-site workers.

B. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall be shared equally by Owner and Contractor.

C. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.

1. Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
 - a. Inspect containers and bins for contamination and remove contaminated materials if found.
2. Stockpile processed materials on-site without intermixing with other materials.
3. Remove recyclable waste from Owner's property and transport to recycling receiver or processor.

3.4 RECYCLING DEMOLITION WASTE

A. Metals: Separate metals by type.

1. Remove and dispose of bolts, nuts, washers, and other rough hardware.

B. Acoustical Ceiling Panels and Tile: Stack large clean pieces on wood pallets and store in a dry location.

C. Metal Suspension System: Separate metal members including trim, and other metals from acoustical panels and tile and sort with other metals.

- D. Carpet and Pad: Roll large pieces tightly after removing debris, trash, adhesive, and tack strips.
 - 1. Store clean, dry carpet and pad in a closed container or trailer provided by Carpet Reclamation Agency or carpet recycler.

3.5 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
 - 1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn waste materials.
- C. Disposal: Remove waste materials from Owner's property and legally dispose of them.
- D. Remove and dispose of waste materials as outlined in the Part One - Abatement / Remediation specifications.

3.6 SAMPLE FORMS

END OF SECTION 01524

SECTION 01700 - EXECUTION REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Cutting.
 - 2. Progress cleaning.
 - 3. Protection of installed construction.
- B. Related Requirements:
 - 1. Section 01100 "Summary" for limits on use of Project site.
 - 2. Section 01770 "Closeout Procedures".

1.2 INFORMATIONAL SUBMITTALS

- A. Waste Disposal Manifests: Submit copy of waste disposal manifests receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal, as outlined in the Part One - Abatement Remediation Specifications.

1.3 QUALITY ASSURANCE

- A. Cutting: Comply with requirements for and limitations on cutting of construction elements.
 - 1. Structural Elements: When cutting structural elements, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural element during cutting. Do not cut structural elements in a manner that could change their load-carrying capacity or increase deflection.
 - 2. Operational Elements: Do not cut operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.
 - 3. Other Construction Elements: Do not cut other construction elements or components in a manner that could change their load-carrying capacity, that may result in reducing their capacity to perform as intended, or that may result in increased maintenance or decreased operational life or safety.
 - 4. Visual Elements: Do not cut exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. For any area that may be question, confer with Architect prior to proceeding.

PART 2 - EXECUTION

2.1 EXAMINATION

- A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.
- B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

2.2 PREPARATION

- A. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Architect according to requirements in Section 01310 "Project Management and Coordination."

2.3 CUTTING

- A. Cutting, General: Employ skilled workers to perform cutting. Proceed with cutting at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction.
- B. Existing Warranties: Remove materials and surfaces cut or damaged during cutting operations, by methods and with materials so as not to void existing warranties.
- C. Temporary Support: Provide temporary support of work to be cut.
- D. Protection: Protect in-place construction during cutting to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting operations.
- E. Cutting: Cut in-place construction by sawing, drilling, grinding, and similar operations, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.

3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 4. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
- F. Cleaning: Clean areas and spaces where cutting are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.
- G. Refer to and comply with Part One for cutting and cleaning areas related to the abatement and remediation of environmental hazards, including but not limited to lead based paint, materials coated with lead based paint, mold, bird feces, and asbestos containing materials.

2.4 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily. Enforce requirements strictly. Dispose of materials lawfully.
1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
1. Remove liquid spills promptly.
 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
 3. Refer to Part One – Abatement and Remediation Specifications for proper cleaning of work areas during abatement and remediation operations.
- D. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- E. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration.
- F. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.

END OF SECTION 01700

SECTION 01732 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition and removal of selected portions of building or structure.
2. Salvage of existing items to be reused or recycled.

1.2 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Salvage: Carefully detach from existing construction, in a manner to prevent damage, and deliver to Owner.
- C. Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall where indicated.
- D. Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.3 PREINSTALLATION MEETINGS

- A. Pre-demolition Conference: Conduct conference at Project site.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For refrigerant recovery technician.
- B. Pre-demolition Photographs: Submit before Work begins.
- C. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician.

1.5 CLOSEOUT SUBMITTALS

- A. Waste Disposal Manifest: Submit copy of waste disposal manifests receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal, as outlined in Part One – Abatement Remediation Specifications.

1.6 QUALITY ASSURANCE

- A. Refrigerant Recovery Technician Qualifications: Certified by an EPA-approved certification program.

1.7 FIELD CONDITIONS

- A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- C. Hazardous Materials: Fungal impacted, hazardous materials and avian feces are present in buildings and structures to be selectively demolished. A report on the presence of fungal impacted, hazardous materials and avian feces is on file for review and use. Examine report to become aware of locations where fungal impacted, hazardous materials and avian feces are present.
 - 1. Fungal impacted, hazardous material and avian feces remediation is specified elsewhere in the Contract Documents.
 - 2. Do not disturb fungal impacted, hazardous materials or avian feces or items suspected of containing the above except under procedures specified elsewhere in the Contract Documents.
- D. Storage or sale of removed items or materials on-site is not permitted.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.

1.8 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- C. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.
- D. Perform an engineering survey of condition of building when the Contractor deems necessary to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.
- E. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs.
 - 1. Comply with requirements specified in Section 01322 "Photographic Documentation."

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
 - 1. Comply with requirements for existing services/systems interruptions specified in Section 01100 "Summary."
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
 - 2. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 - d. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.

- C. Refrigerant: Remove refrigerant from mechanical equipment to be selectively demolished according to 40 CFR 82 and regulations of authorities having jurisdiction.

3.3 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 - 1. Comply with requirements for access and protection specified in Section 01500 "Temporary Facilities and Controls."
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

3.4 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
 - 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 - 3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations.
 - 4. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 - 5. Dispose of demolished items and materials promptly.
 - 6. Comply with requirements in Section 01524 "Construction Waste Management."
- B. Reuse of Building Elements: Do not demolish building elements beyond what is indicated on Drawings without Architect's approval.
- C. Removed and Salvaged Items:
 - 1. Clean salvaged items.

2. Inventory, Photograph, and Pack or crate items after cleaning. Identify contents of containers.
 3. Store items in a secure area until delivery to Owner.
 4. Transport items to Owner's storage area designated by Owner.
 5. Protect items from damage during transport and storage.
- D. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.5 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them as indicated in Part One – Abatement and Remediation Specifications.
- B. Burning: Do not burn demolished materials.

3.6 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 01732

SECTION 01770 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.
 - 5. Repair of the Work.
- B. Related Requirements:
 - 1. Section 01322 "Photographic Documentation" for submitting final completion construction photographic documentation.
 - 2. Section 01781 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.2 ACTION SUBMITTALS

- A. Product Data: For cleaning agents.
- B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.3 CLOSEOUT SUBMITTALS

- A. Certificates of Release: From authorities having jurisdiction.
- B. Certificate of Insurance: For continuing coverage.

1.4 SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.
- B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.

1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information.
 3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Advise Owner of pending insurance changeover requirements.
 2. Participate with Owner in conducting inspection and walkthrough with local emergency responders.
 3. Terminate and remove temporary facilities from Project site, along with construction tools, and similar elements.
 4. Complete final cleaning requirements.
 5. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.
1. Re-inspection: Request re-inspection when the Work identified in previous inspections as incomplete is completed or corrected.
 2. Results of completed inspection will form the basis of requirements for final completion.

1.5 FINAL COMPLETION PROCEDURES

- A. Preliminary Procedures: Before requesting final inspection for determining final completion, complete the following:
1. Submit a final Application for Payment according to Section 01290 "Payment Procedures."
 2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
 3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
 4. Submit pest-control final inspection report and warranty.

- B. Inspection: Submit a written request for final inspection to determine acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
 - 1. Re-inspection: Request re-inspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.6 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
 - 1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
 - 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
 - 3. Submit list of incomplete items in the following format:
 - a. MS Excel electronic file. Architect, will return annotated copy, or
 - b. PDF electronic file. Architect will return annotated copy.
 - c. Five paper copies unless otherwise indicated. Architect will return two copies.

1.7 SUBMITTAL OF PROJECT WARRANTIES

- A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
- B. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.
 - 1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch (215-by-280-mm) paper.
 - 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 - 3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
 - 4. Warranty Electronic File: Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide bookmarked table of contents at beginning of document.

- C. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
 - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - d. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - e. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 - f. Sweep concrete floors broom clean in unoccupied spaces.
 - g. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
 - h. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass, taking care not to scratch surfaces.
 - i. Remove labels that are not permanent.

- j. Wipe surfaces of mechanical and electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 - k. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
 - l. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
 - m. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
 - n. Leave Project clean and ready for occupancy.
- C. Pest Control: Comply with pest control requirements in Section 01500 "Temporary Facilities and Controls." Prepare written report.

END OF SECTION 01770

SECTION 01781 - PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including the following:
 - 1. Record Drawings.
 - 2. Record Specifications.
 - 3. Record Product Data.

1.2 CLOSEOUT SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit one set(s) of marked-up record prints.
- B. Record Specifications: Submit one paper copy and annotated PDF electronic files of Project's Specifications, including addenda and contract modifications.
- C. Record Product Data: Submit one paper copy and annotated PDF electronic files and directories of each submittal.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised Drawings as modifications are issued.
 - 1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Record data as soon as possible after obtaining it.
 - c. Record and check the markup before enclosing concealed installations.
 - 2. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.

3. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
 4. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, review marked-up record prints with Architect. When authorized, prepare a full set of corrected digital data files of the Contract Drawings, as follows:
1. Format: Same digital data software program, version, and operating system as the original Contract Drawings.
 2. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
 3. Refer instances of uncertainty to Architect for resolution.
 4. Architect will furnish Contractor one set of digital data files of the Contract Drawings for use in recording information.
- C. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 2. Format: Annotated PDF electronic file with comment function enabled.
 3. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.
 4. Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Architect.
 - e. Name of Contractor.

2.2 RECORD SPECIFICATIONS

- A. Preparation: Mark Specifications to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.
1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
 3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
 4. Note related Change Orders, record Product Data, and record Drawings where applicable.

- B. Format: Submit record Specifications as scanned PDF electronic file(s) of marked-up paper copy of Specifications.

2.3 RECORD PRODUCT DATA

- A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
 - 1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 - 2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
 - 3. Note related Change Orders, record Specifications, and record Drawings where applicable.
- B. Format: Submit record Product Data as scanned PDF electronic file(s) of marked-up paper copy of Product Data.

2.4 MISCELLANEOUS RECORD SUBMITTALS

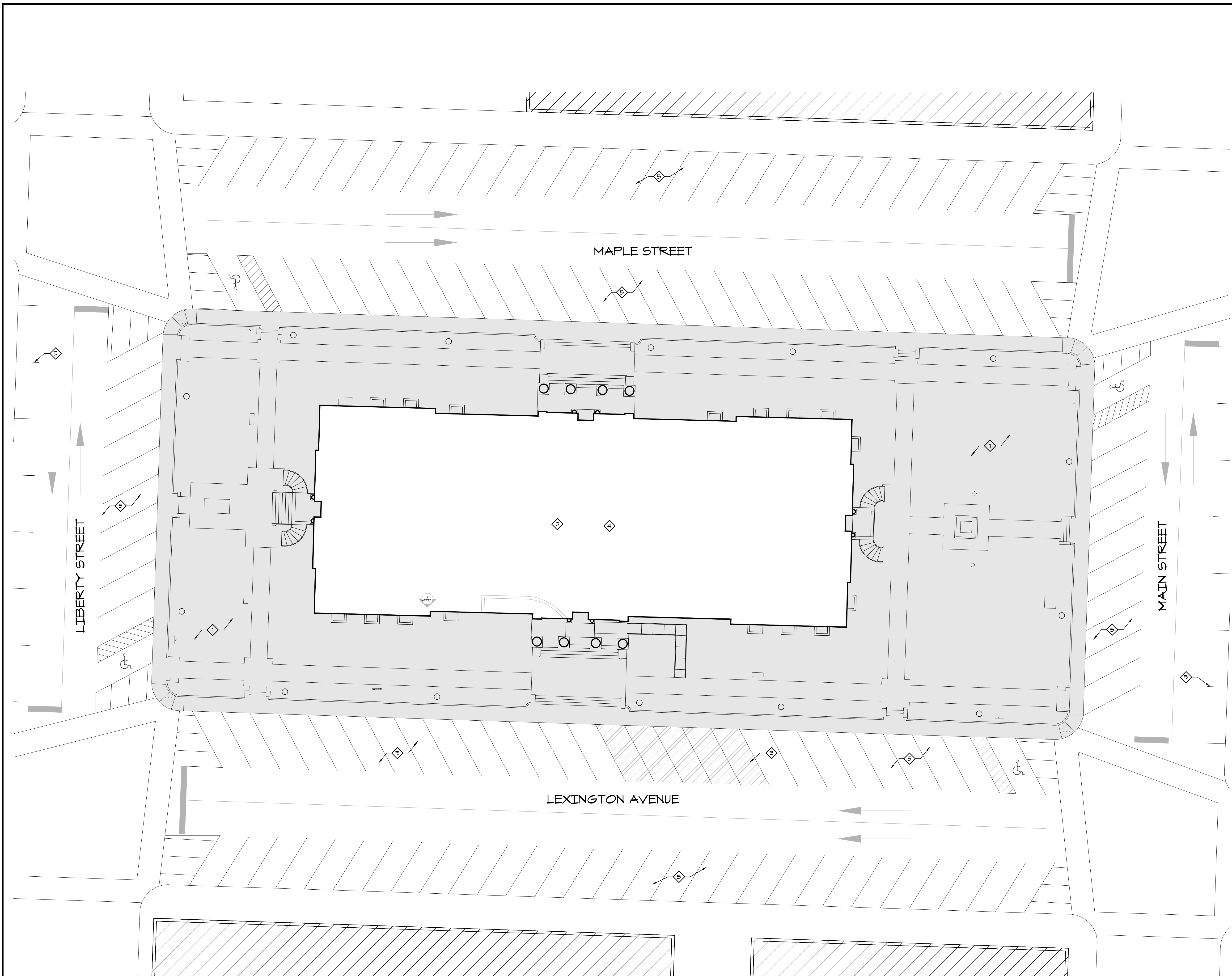
- A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.
- B. Format: Submit miscellaneous record submittals as scanned PDF electronic file(s) of marked-up miscellaneous record submittals.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.
- B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's reference during normal working hours.

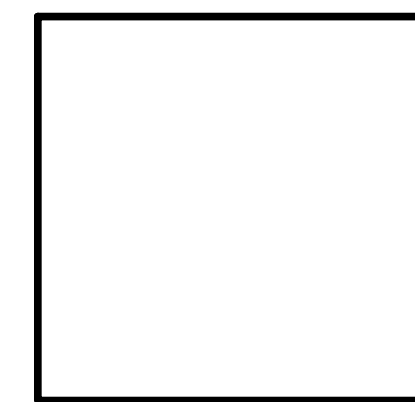
END OF SECTION 01781



- SYMBOLS LEGEND:**
- EXISTING COURTHOUSE BUILDING
 - EXISTING PERIMETER BUILDINGS
 - EXISTING WINDOW WELLS
 - EXISTING LIGHT POLES
 - EXISTING MONUMENTS & FLAG POLES
 - EXISTING H.C. PARKING SIGNS
 - DIRECTION OF VEHICULAR TRAFFIC
 - KEYNOTE TAG

- GENERAL NOTES:**
1. ALL DEMOLITION TO BE COORDINATED WITH SPECIFICATIONS AND ABATEMENT PACKAGE.
 2. TEMPORARY PARKING FOR LOADING/UNLOADING SHALL BE COORDINATED WITH OWNER AND CITY OF INDEPENDENCE.
 3. WORKER PARKING IS AVAILABLE TWO BLOCKS NORTH IN COUNTY PARKING LOT AND IN ANY PUBLIC PARKING LOT AROUND THE AREA. CURBSIDE PARKING AROUND THE PERIMETER OF THE BUILDING IS NOT ALLOWED.

- KEY NOTES:**
- NO STORAGE OF MATERIALS OR STAGING ON COURTHOUSE GROUNDS.
 - ALL STORAGE AND STAGING ACTIVITIES SHALL BE INSIDE COURTHOUSE AS APPROVED BY OWNER.
 - CONTRACTOR TO COORDINATE DUMPSTER AND TEMPORARY RESTROOM LOCATIONS WITHIN CURBSIDE PARKING AREA ONLY WITH CITY OF INDEPENDENCE. PERIODIC, TEMPORARY REMOVAL OF DUMPSTER AND TEMPORARY RESTROOMS FOR EVENTS ON THE SQUARE TO BE COORDINATED WITH CITY OF INDEPENDENCE.
 - CONTRACTOR TO COORDINATE FIELD OFFICE LOCATION INSIDE COURTHOUSE WITH OWNER.
 - NO WORKER PARKING IN ANY CURBSIDE PARKING SPACES AROUND THE SQUARE.



ARCHITECT:
PIPER-WIND ARCHITECTS, INC.
 2121 CENTRAL STREET, SUITE 143
 KANSAS CITY, MISSOURI 64108
 TEL. (816) 474-3050
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HISTORIC TRUMAN COURTHOUSE

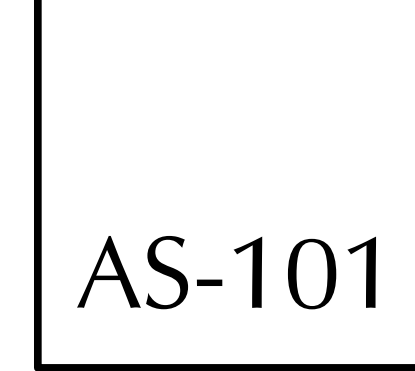
SELECTIVE DEMOLITION

102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR
 CONSTRUCTION

PROJECT NO.	3811
DATE	04/16/2012
DRAWN BY	SSE
CHECKED BY	EP
CHECKED BY	CAM
REVISED DATE	DESCRIPTION

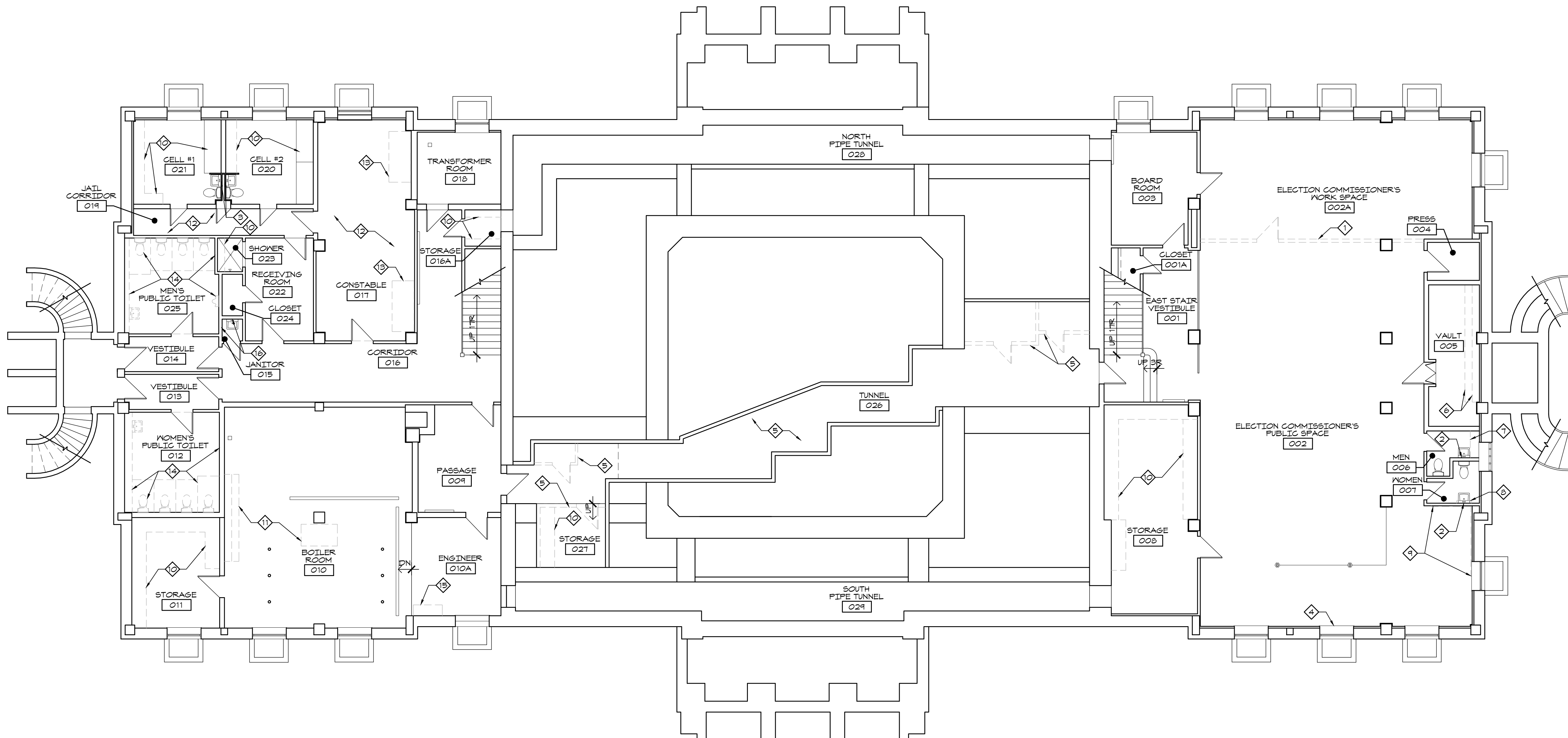
SHEET TITLE & NUMBER
ARCHITECTURAL
SITE PLAN
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1 ARCHITECTURAL SITE PLAN

1/16"=1'-0"
 0 5 10 15 20
 DRAWING AT 1/16" = 1'-0" WHEN PRINTED ON 24"X36" SHEET

AS-101



- SYMBOLS LEGEND:**
- EXISTING WALL TO REMAIN
 - - - EXISTING PARTIAL HEIGHT WALL
 - - - EXISTING FOOTING TO REMAIN
 - - - EXISTING WALL TO BE REMOVED
 - EXISTING WINDOW TO REMAIN
 - EXISTING WINDOW TO BE REMOVED
 - EXISTING DOOR TO REMAIN
 - (M) = MISSING
 - EXISTING DOOR TO BE REMOVED
 - EXISTING CASEWORK TO REMAIN
 - ◆ KEYNOTE TAG
 - AAA ROOM NAME - HISTORIC ROOM NUMBER

- GENERAL NOTES:**
1. ALL DEMOLITION TO BE COORDINATED WITH SELECTIVE DEMOLITION SPECIFICATIONS AND ABATEMENT PACKAGE.
 2. PRIOR TO DEMOLITION, CONTRACTOR TO CAREFULLY INVENTORY, PHOTOGRAPH, SALVAGE, LABEL AND PACKAGE ALL MISCELLANEOUS "LOOSE" BUILDING RELATED MATERIALS STORED THROUGHOUT BUILDING INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, LIGHTS, FITTINGS AND FIXTURES. PLACE IN STORAGE AREA DESIGNATED BY OWNER. COORDINATE WITH ARCHITECT. REFER TO SPECIFICATIONS.
 3. SALVAGE AND REMOVE ALL LAVATORIES. LABEL EACH WITH NAME OF ROOM FROM WHICH LAVATORY WAS REMOVED. STORE IN ORIGINAL ROOM OR ADJACENT ROOM AND COVER FIXTURE FOR PROTECTION.
 4. PROTECT ALL EXISTING CASEWORK, DOORS, FINISHES, AND TRIM PER SPECIFICATIONS. ANY BASE AND DOOR TRIM TO BE REMOVED, SHALL BE REMOVED INTACT TO BE REINSTALLED. DO NOT DAMAGE.
 5. COVER AND PROTECT ALL TOILETS.
 6. COMPLETELY COVER ALL ORIGINAL EXISTING WOOD AND/OR LINOLEUM FLOORS WITH MAGNETITE PANELS. TAPE ALL JOINTS PRIOR TO COMMENCING SELECTIVE DEMOLITION AND COVER ALL FLOORS UPON REMOVAL OF CARPET TO PROTECT FROM DEMOLITION ACTIVITIES. COORDINATE REMOVAL OF PROTECTION BOARD WITH ARCHITECT AS DEMOLITION ACTIVITIES ARE COMPLETED.

- KEY NOTES:**
- 1 REMOVE AND DISPOSE OF OR RECYCLE EXISTING PARTITION WALL INCLUDING ALL DOORS, INTERIOR WINDOWS AND TRIM.
 - 2 CUT PLASTER WALL AND CEILING FINISH NEATLY AS REQUIRED TO ACCESS EXISTING DOMESTIC HOT WATER PIPES FROM SINK SIDE OF WALL. ABATE ADJACENT DISTURBED SURFACE AS REQUIRED PER ABATEMENT PACKAGE.
 - 3 ACCESS EXISTING DOMESTIC HOT WATER PIPES FROM HALL CLOSET.
 - 4 EXISTING SANDSTONE TABLET SET WITHIN FOUNDATION WALL TO REMAIN. ABATE AS REQUIRED WITH MINIMAL DISTURBANCE. REFERENCE SPECIFICATIONS.
 - 5 REMOVE ALL EXISTING STORAGE SHEDS IN TUNNEL INCLUDING ALL SHELVING, DOORS AND WALLS.
 - 6 SALVAGE AND REMOVE FLAT FILES. DISASSEMBLE AS REQUIRED TO REMOVE FROM ROOM. RETURN TO OWNER. REMOVE AND DISPOSE OF ALL OTHER WOOD SHELVING IN ROOM.
 - 7 REMOVE AND DISPOSE OF WOOD VANITY.
 - 8 REMOVE AND DISPOSE OF WALL MOUNTED MEDICINE CABINET.
 - 9 REMOVE AND DISPOSE OF FIBER BOARD ALONG SOUTH FACING WALL OF RESTROOM TO UNDER WINDOW AT FOUNDATION WALL.
 - 10 REMOVE AND DISPOSE OF EXISTING WOOD SHELVING. AREAS IN BETWEEN STEEL BUNK BEDS IN CELLS INCLUDED.
 - 11 STORAGE CABINETS ALONG WALL AND WORK BENCH TO BE REMOVED. VERIFY ITEMS TO BE SALVAGED WITH OWNER.
 - 12 REMOVE EXISTING TILE FLOOR IN JAIL CORRIDOR AND CONSTABLES ROOM PER SPECIFICATIONS.
 - 13 REMOVE AND DISPOSE OF EXISTING WOOD CABINET, SALVAGE CONTENTS AND RETURN TO OWNER.
 - 14 REMOVE ALL FINISHES AND FIXTURES IN RESTROOM TO EXPOSE SUBSTRATE. DEMOLITION INCLUDES BUT IS NOT LIMITED TO FLOOR TILE, WALL TILE, TOILET PARTITIONS, LAVATORIES, TOILETS AND WALL MOUNTED EQUIPMENT. SALVAGE FIXTURES PER OWNER.
 - 15 REMOVE AND SALVAGE EXISTING METAL LOCKERS. SALVAGE PER OWNER.
 - 16 CUT PLASTER WALL AND CEILING FINISH NEATLY AS REQUIRED TO ACCESS PIPES.

HISTORIC TRUMAN COURTHOUSE
 SELECTIVE DEMOLITION
 102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR CONSTRUCTION

PROJECT NO.	3811
DATE	04/16/2012
DRAWN BY	SSE
CHECKED BY	EP
CHECKED BY	CM
REVISED DATE	DESCRIPTION

SHEET TITLE & NUMBER
BASEMENT DEMO PLAN

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AD-100

1 BASEMENT DEMOLITION FLOOR PLAN
 1/8"=1'-0"
 DRAWING AT 1/8" = 1'-0" WHEN PRINTED ON 24"x36" SHEET

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HISTORIC TRUMAN COURTHOUSE
 SELECTIVE DEMOLITION
 102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR
 CONSTRUCTION

PROJECT NO.	3811
DATE	04/16/2012
DRAWN BY	SAS
CHECKED BY	EP
CHECKED BY	CM
REVISED DATE	DESCRIPTION

SHEET TITLE & NUMBER
**FIRST FLOOR
 DEMO PLAN**

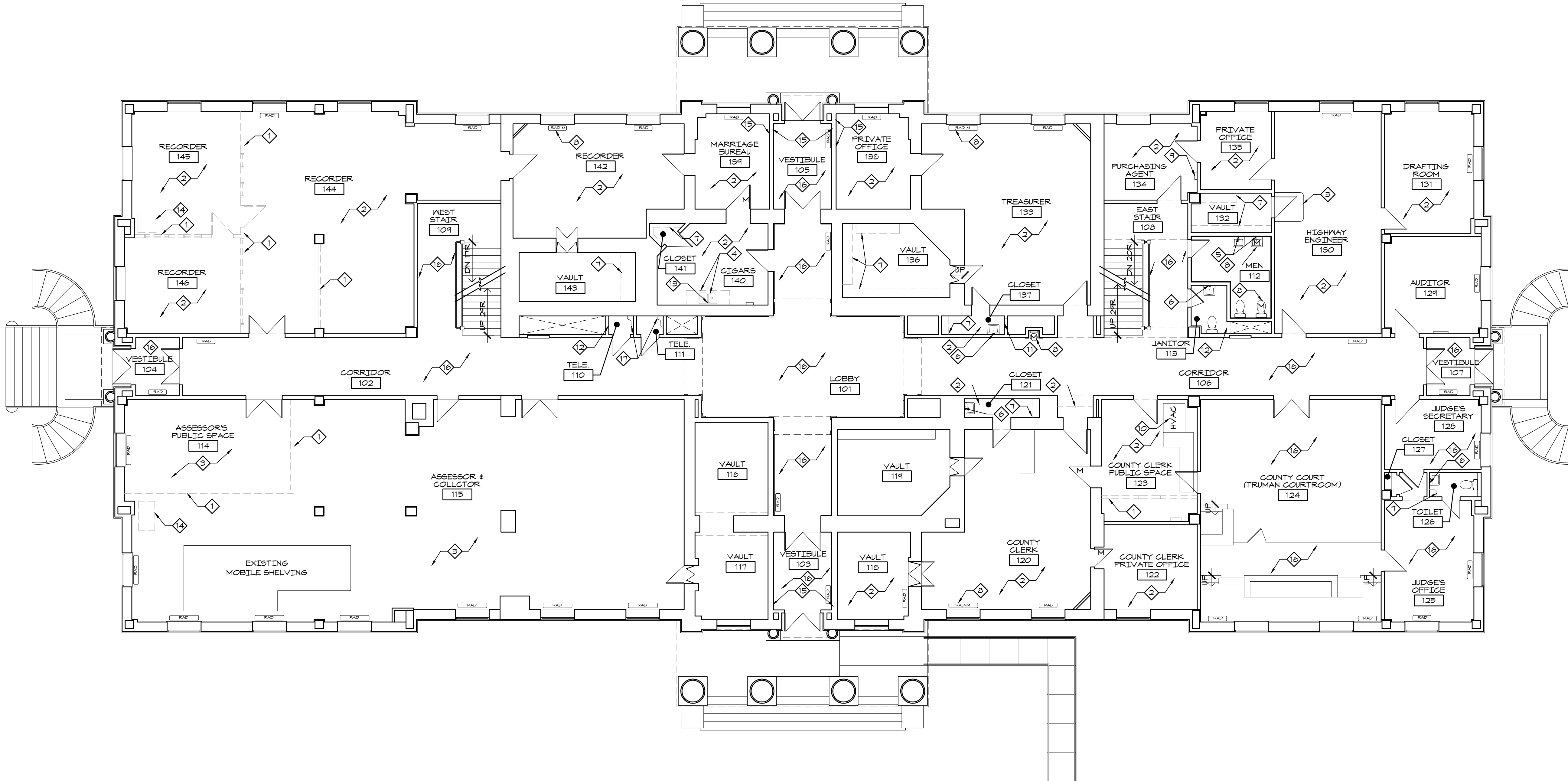
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AD-101

- SYMBOLS LEGEND:**
- EXISTING WALL TO REMAIN
 - - - EXISTING PARTIAL HEIGHT WALL
 - EXISTING WALL TO BE REMOVED
 - EXISTING WINDOW TO REMAIN
 - EXISTING WINDOW TO BE REMOVED
 - EXISTING DOOR TO REMAIN
 - (M) = MISSING
 - EXISTING DOOR TO BE REMOVED
 - EXISTING CASEWORK TO REMAIN
 - EXISTING RADIATOR
 - (M) = MISSING
 - ◇ KEYNOTE TAG
 - AAA ROOM NAME - HISTORIC
 - ### ROOM NUMBER

- GENERAL NOTES:**
1. ALL DEMOLITION TO BE COORDINATED WITH SELECTIVE DEMOLITION SPECIFICATIONS AND ABATEMENT PACKAGE.
 2. PRIOR TO DEMOLITION, CONTRACTOR TO CAREFULLY INVENTORY, PHOTOGRAPH, SALVAGE, LABEL AND PACKAGE ALL MISCELLANEOUS "LOOSE" BUILDING RELATED MATERIALS STORED THROUGHOUT BUILDING INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, LIGHTS, FITTINGS AND FIXTURES. PLACE IN STORAGE AREA DESIGNATED BY OWNER. COORDINATE WITH ARCHITECT. REFER TO SPECIFICATIONS.
 3. SALVAGE AND REMOVE ALL LAVATORIES. LABEL EACH WITH NAME OF ROOM FROM WHICH LAVATORY WAS REMOVED. STORE IN ORIGINAL ROOM OR ADJACENT ROOM AND COVER FIXTURE FOR PROTECTION.
 4. PROTECT ALL EXISTING CASEWORK, DOORS, FINISHES AND TRIM PER SPECIFICATIONS. ANY BASE AND DOOR TRIM TO BE REMOVED, SHALL BE REMOVED INTACT TO BE REINSTALLED. DO NOT DAMAGE.
 5. COVER AND PROTECT ALL TOILETS.
 6. ALL NON-HISTORIC WALL MOUNTED ITEMS TO BE REMOVED. THIS INCLUDES BUT IS NOT LIMITED TO CORK BOARDS, CLOCKS, ELECTRIC RACEWAYS, ETC. CONFIRM ITEMS WITH OWNER DURING PRE-CONSTRUCTION MEETING.
 7. COMPLETELY COVER ALL ORIGINAL EXISTING WOOD AND/OR LINOLEUM FLOORS WITH MASONITE PANELS. TAPE ALL JOINTS PRIOR TO COMMENCING SELECTIVE DEMOLITION AND COVER ALL FLOORS UPON REMOVAL OF CARPET TO PROTECT FROM DEMOLITION ACTIVITIES. COORDINATE REMOVAL OF PROTECTION BOARD WITH ARCHITECT AS DEMOLITION ACTIVITIES ARE COMPLETED.

- KEY NOTES:**
- 1. REMOVE AND DISPOSE OF OR RECYCLE EXISTING PARTITION WALLS INCLUDING ALL DOORS, INTERIOR WINDOWS AND TRIM.
 - 2. REMOVE EXISTING CARPET THROUGH OUT ROOM UNLESS NOTED OTHERWISE. PROTECT ALL EXISTING BASE AND DOOR TRIM.
 - 3. REFER TO ABATEMENT PACKAGE FOR REMOVAL OF LINOLEUM FLOOR.
 - 4. REMOVE AND SALVAGE EXISTING SINK AND COUNTER PER OWNER.
 - 5. CAREFULLY REMOVE TWO EXISTING MARBLE WAINSCOT PANELS AND CUT PLASTER WALL FINISH NEATLY AS REQUIRED TO ACCESS EXISTING DOMESTIC WATER PIPES IN WALL. TAG, WRAP AND STORE GRANITE PANELS FOR REUSE.
 - 6. CUT PLASTER WALL AND CEILING FINISH NEATLY AS REQUIRED TO ACCESS EXISTING DOMESTIC HOT WATER PIPES FROM SINK SIDE OF WALL. ABATE ADJACENT DISTURBED SURFACE AS REQUIRED PER ABATEMENT PACKAGE.
 - 7. ALL SHELVING (BUILT-IN AND MOBILE) TO BE REMOVED FROM VAULTS AND CLOSETS AS INDICATED, UNLESS NOTED OTHERWISE.
 - 8. ORIGINAL FIXTURE MISSING. EXISTING PLUMBING FOR FIXTURE STILL IN PLACE.
 - 9. WALL MOUNTED CLOSET TO BE CAREFULLY REMOVED AND GIVEN TO OWNER FOR SAFE KEEPING. COVER AND PROTECT OTHER WALL MOUNTED CABINETS DURING DEMOLITION AND ABATEMENT.
 - 10. KEEP HVAC UNIT OPERATIONAL DURING SELECTIVE DEMOLITION AND ABATEMENT.
 - 11. EXISTING ACCESS PANEL IN WALL. REMOVE REMAINDER OF PLASTER FINISH AT WALL AND CEILING TO ACCESS EXISTING PIPES. MAINTAIN BASE TRIM IN PLACE.
 - 12. EXISTING PLASTER WALL AND CEILING FINISH TO BE REMOVED TO ACCESS PIPING AS NEEDED. MAINTAIN BASE TRIM IN PLACE.
 - 13. ACCESS EXISTING DOMESTIC HOT WATER PIPES FROM ROOM SIDE OR FROM BELOW.
 - 14. DISCONNECT AND REMOVE EXISTING HVAC EQUIPMENT. SALVAGE PER OWNER.
 - 15. NEATLY CUT EXISTING PLASTER CEILING AND/OR WALL TO ACCESS EXISTING PIPES.
 - 16. SPECIAL CARE SHALL BE TAKEN IN HISTORIC TRUMAN SUITE, MAIN LOBBIES AND CORRIDORS TO PRESERVE AND PROTECT ALL FINISHES AND FURNISHINGS AS THEY CURRENTLY EXIST.
 - 17. IN TELEPHONE ROOMS, THE EXISTING WALL MOUNTED PLAQUE, TELEPHONE SUPPORT AND CURVED WOOD SHELF ARE TO REMAIN.



1 FIRST FLOOR DEMOLITION PLAN
 1/8"=1'-0"
 DRAWING AT 1/8" = 1'-0" WHEN PRINTED ON 24"X36" SHEET

ARCHITECT:
PIPER-WIND ARCHITECTS, INC.
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 FAX. (816) 474-3051

HISTORIC TRUMAN COURTHOUSE

SELECTIVE DEMOLITION

102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR
 CONSTRUCTION

PROJECT NO.	3811
DATE	04/16/2012
DRAWN BY	SSE
CHECKED BY	EP
CHECKED BY	CM
REVISION DATE	DESCRIPTION

SHEET TITLE & NUMBER
**SECOND FLOOR
 DEMO PLAN**
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AD-102

SYMBOLS LEGEND:

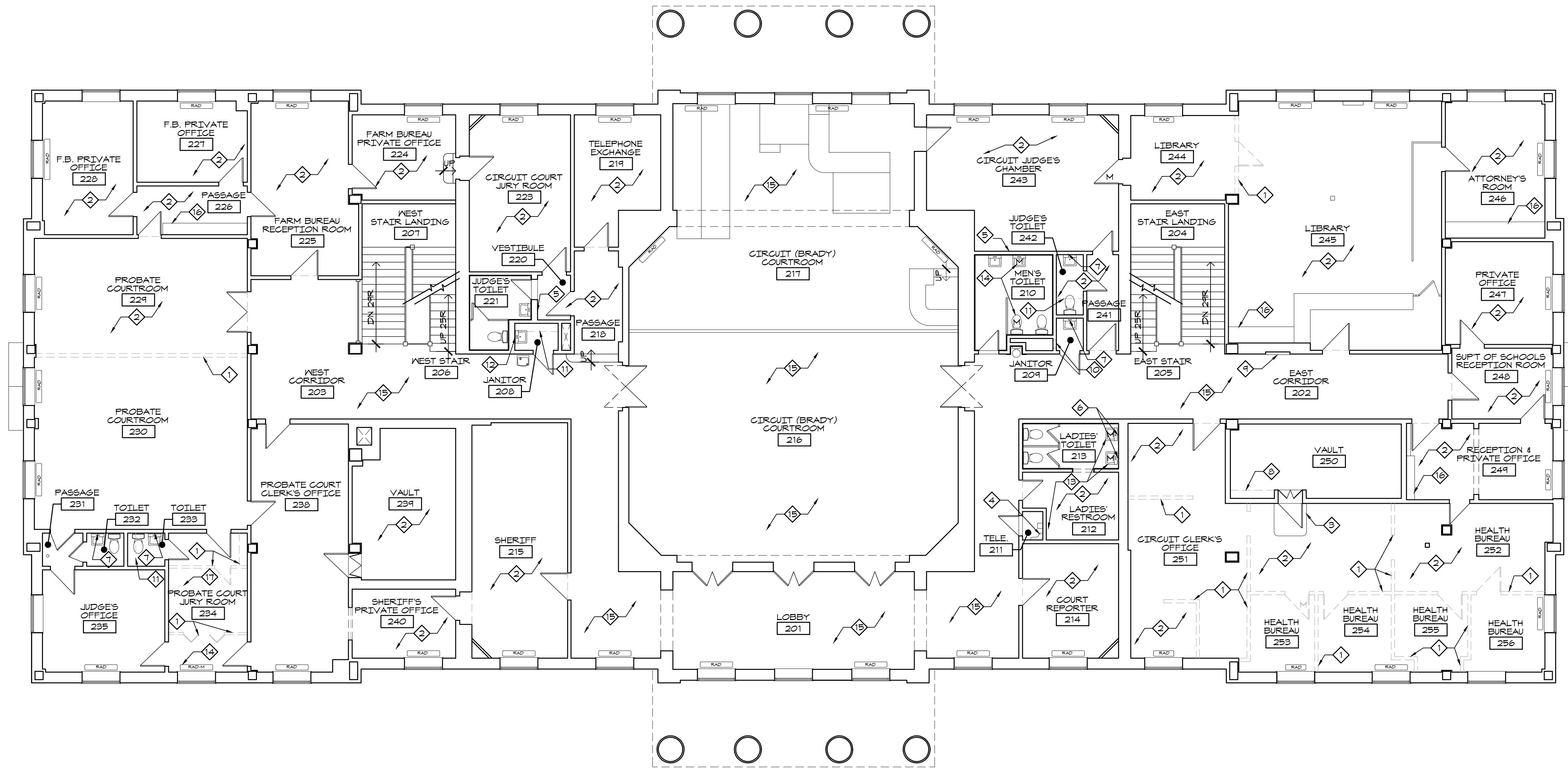
- EXISTING WALL TO REMAIN
- EXISTING PARTIAL HEIGHT WALL
- EXISTING WALL TO BE REMOVED
- EXISTING WINDOW TO REMAIN
- EXISTING WINDOW TO BE REMOVED
- EXISTING DOOR TO REMAIN (M) = MISSING
- EXISTING DOOR TO BE REMOVED
- EXISTING CASEWORK TO REMAIN
- EXISTING RADIATOR (M) = MISSING
- KEYNOTE TAG
- ROOM NAME - HISTORIC ROOM NUMBER

GENERAL NOTES:

1. ALL DEMOLITION TO BE COORDINATED WITH SELECTIVE DEMOLITION SPECIFICATIONS AND ABATEMENT PACKAGE.
2. PRIOR TO DEMOLITION, CONTRACTOR TO CAREFULLY INVENTORY, PHOTOGRAPH, SALVAGE, LABEL AND PACKAGE ALL MISCELLANEOUS "LOOSE" BUILDING RELATED MATERIALS STORED THROUGHOUT BUILDING INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, LIGHTS, FITTINGS AND FIXTURES. PLACE IN STORAGE AREA DESIGNATED BY OWNER. COORDINATE WITH ARCHITECT. REFER TO SPECIFICATIONS.
3. SALVAGE AND REMOVE ALL LAVATORIES. LABEL EACH WITH NAME OF ROOM FROM WHICH LAVATORY WAS REMOVED. STORE IN ORIGINAL ROOM OR ADJACENT ROOM AND COVER FIXTURE FOR PROTECTION.
4. PROTECT ALL EXISTING CASEWORK, DOORS, FINISHES, AND TRIM PER SPECIFICATIONS. ANY BASE AND DOOR TRIM TO BE REMOVED, SHALL BE REMOVED INTACT TO BE REINSTALLED. DO NOT DAMAGE.
5. COVER AND PROTECT ALL TOILETS.
6. ALL NON-HISTORIC WALL MOUNTED ITEMS TO BE REMOVED. THIS INCLUDES BUT IS NOT LIMITED TO CORK BOARDS, CLOCKS, ELECTRIC RACEWAYS, ETC. CONFIRM ITEMS WITH OWNER DURING PRE-CONSTRUCTION MEETING.
7. COMPLETELY COVER ALL ORIGINAL EXISTING WOOD AND/OR LINOLEUM FLOORS WITH MASONITE PANELS. TAPE ALL JOINTS PRIOR TO COMMENCING SELECTIVE DEMOLITION AND COVER ALL FLOORS UPON REMOVAL OF CARPET TO PROTECT FROM DEMOLITION ACTIVITIES. COORDINATE REMOVAL OF PROTECTION BOARD WITH ARCHITECT AS DEMOLITION ACTIVITIES ARE COMPLETED.

KEY NOTES:

- 1. REMOVE AND DISPOSE OF OR RECYCLE EXISTING PARTITION WALL INCLUDING ALL DOORS, INTERIOR WINDOWS AND TRIM.
- 2. REMOVE EXISTING CARPET AND/OR VINYL FLOOR THROUGH OUT ROOM, U.N.O. PROTECT ALL EXISTING BASE AND DOOR TRIM.
- 3. REFER TO ABATEMENT PACKAGE FOR REMOVAL OF LINOLEUM AT VAULT ENTRY.
- 4. IN TELEPHONE ROOMS, THE EXISTING WALL MOUNTED PLUGS, TELEPHONE SUPPORT AND CURVED WOOD SHELF ARE TO REMAIN.
- 5. CUT PLASTER WALL NEATLY AS REQUIRED TO ACCESS EXISTING DOMESTIC HOT WATER PIPES FROM NON-RESTROOM SIDE OF WALL. AVOID DISRUPTION TO EXISTING MARBLE WAINSCOT IN RESTROOM.
- 6. CAREFULLY REMOVE EXISTING MARBLE WAINSCOT PANEL AND CUT PLASTER WALL NEATLY AS REQUIRED TO ACCESS EXISTING DOMESTIC WATER PIPES IN WALL. TAG WRAP AND STORE GRANITE PER OWNER FOR REINSTALLATION.
- 7. CUT PLASTER WALL NEATLY AS REQUIRED TO ACCESS EXISTING DOMESTIC HOT WATER PIPES FROM SINK SIDE OF WALL. ABATE ADJACENT DISTURBED SURFACE AS REQUIRED PER ABATEMENT PACKAGE.
- 8. ALL SHELVING (BUILT-IN AND MOBILE) TO BE REMOVED FROM VAULTS AND CLOSETS AS INDICATED, UNLESS NOTED OTHERWISE.
- 9. CAREFULLY REMOVE AND DISCONNECT FIRE HOSE CABINET TO ACCESS EXISTING PIPE CHASE. STORE CABINET PER OWNER. RESTORE TO EXISTING OPERATING CONDITION AFTER WORK IS COMPLETE.
- 10. EXISTING ACCESS PANEL IN WALL. REMOVE REMAINDER OF PLASTER FINISH AT WALL AND CEILING TO ACCESS EXISTING PIPES. MAINTAIN BASE TRIM IN PLACE.
- 11. REMOVE AND DISPOSE OF EXISTING WALL MOUNTED SHELVES.
- 12. EXISTING PLASTER FINISH AT WALL AND CEILING TO BE REMOVED TO ACCESS EXISTING PIPING AS NEEDED. MAINTAIN BASE TRIM IN PLACE.
- 13. EXISTING LAVATORIES FOR LADIES' TOILET ARE DISCONNECTED AND LAYING ON FLOOR IN ADJACENT LADIES' RESTROOM. LABEL, PROTECT AND STORE PER OWNER.
- 14. ORIGINAL FIXTURE MISSING. EXISTING PLUMBING FOR FIXTURE STILL IN PLACE.
- 15. SPECIAL CARE SHALL BE TAKEN IN HISTORIC CIRCUIT (BRADY) COURTROOM, MAIN LOBBY AND CORRIDORS TO PRESERVE AND PROTECT ALL FINISHES AND FURNISHINGS AS THEY CURRENTLY EXISTS.
- 16. EXISTING WALL CASEWORK TO REMAIN. COVER AND PROTECT DURING SELECTIVE DEMOLITION AND ABATEMENT.
- 17. DISCONNECT AND REMOVE EXISTING HVAC EQUIPMENT. SALVAGE PER OWNER.



1 | SECOND FLOOR DEMO PLAN

DRAWING AT 1/8" = 1'-0" WHEN PRINTED ON 24" X 36" SHEET

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HISTORIC TRUMAN COURTHOUSE

SELECTIVE DEMOLITION

102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR
 CONSTRUCTION

PROJECT NO.	3811
DATE	04/16/2012
DRAWN BY	SK
CHECKED BY	EP
REVIEWED BY	CM
REVISION DATE	DESCRIPTION

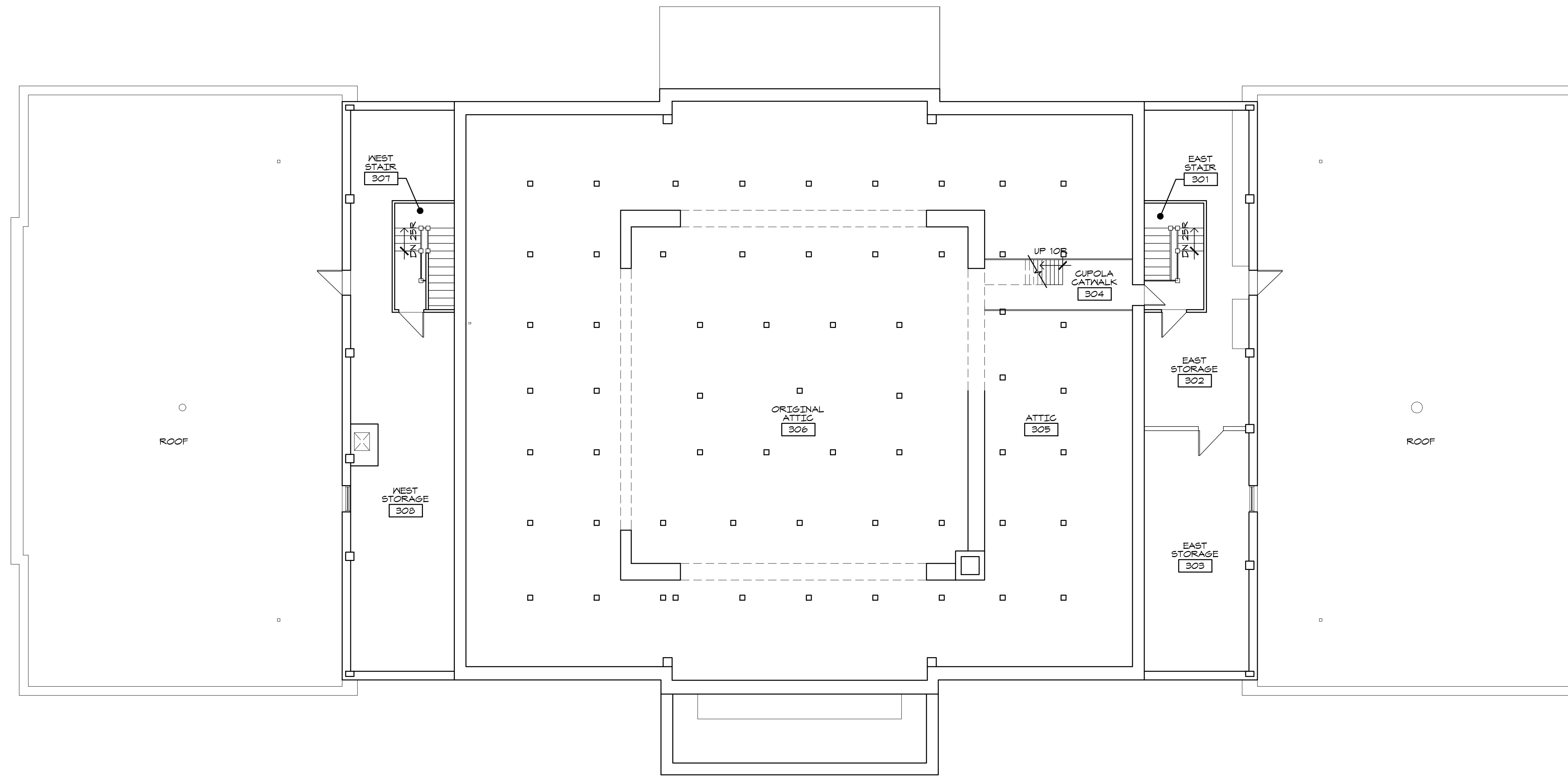
SHEET TITLE & NUMBER
ATTIC/ROOF DEMO PLAN

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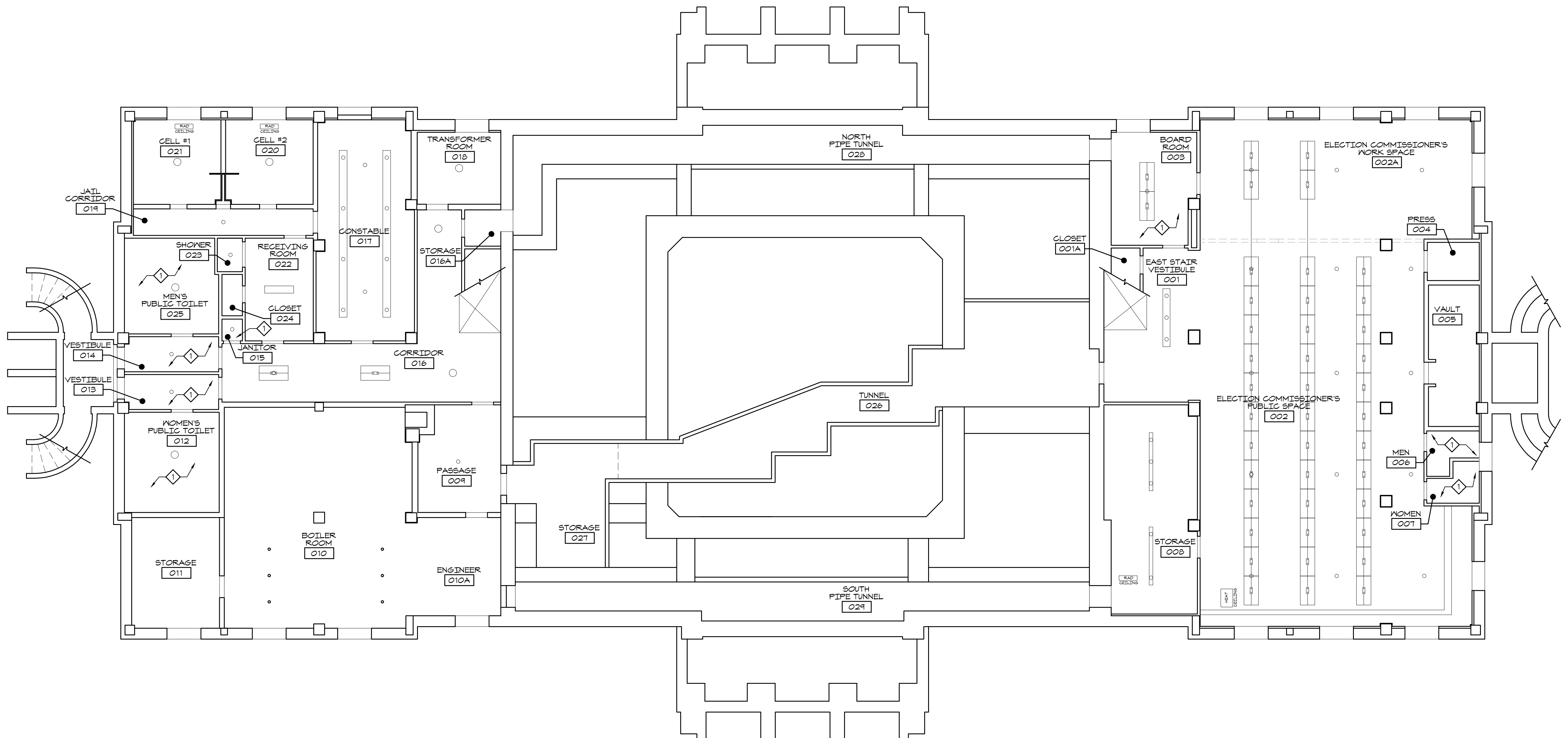
AD-103

- SYMBOLS LEGEND:**
- EXISTING WALL TO REMAIN
 - EXISTING PARTIAL HEIGHT WALL
 - EXISTING WALL TO BE REMOVED
 - EXISTING WINDOW TO REMAIN
 - EXISTING WINDOW TO BE REMOVED
 - EXISTING DOOR TO REMAIN (M) = MISSING
 - EXISTING DOOR TO BE REMOVED
 - EXISTING CASEWORK TO REMAIN
 - EXISTING RADIATOR (M) = MISSING
 - KEYNOTE TAG
 - ROOM NAME - HISTORIC ROOM NUMBER

- GENERAL NOTES:**
1. ALL DEMOLITION TO BE COORDINATED WITH SELECTIVE DEMOLITION SPECIFICATIONS AND ABATEMENT PACKAGE.
 2. PRIOR TO DEMOLITION, CONTRACTOR TO CAREFULLY INVENTORY, PHOTOGRAPH, SALVAGE, LABEL AND PACKAGE ALL MISCELLANEOUS 'LOOSE' BUILDING RELATED MATERIALS STORED THROUGHOUT BUILDING INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, LIGHTS, FITTINGS AND FIXTURES. PLACE IN STORAGE AREA DESIGNATED BY OWNER. COORDINATE WITH ARCHITECT. REFER TO SPECIFICATIONS.
 3. PROTECT ALL EXISTING CASEWORK, DOORS, FINISHES, AND TRIM PER SPECIFICATIONS. ANY BASE AND DOOR TRIM TO BE REMOVED, SHALL BE REMOVED INTACT TO BE REINSTALLED. DO NOT DAMAGE.
 4. COMPLETELY COVER ALL ORIGINAL EXISTING WOOD AND/OR LINOLEUM FLOORS WITH MASONITE PANELS. TAPE ALL JOINTS PRIOR TO COMMENCING SELECTIVE DEMOLITION AND COVER ALL FLOORS UPON REMOVAL OF CARPET TO PROTECT FROM DEMOLITION ACTIVITIES. COORDINATE REMOVAL OF PROTECTION BOARD WITH ARCHITECT AS DEMOLITION ACTIVITIES ARE COMPLETED.



RESTRICTED ACCESS OVER CEILING AREAS FOR DEMOLITION PURPOSES:
 APPLIED CONSTRUCTION LOADS OVER EXISTING PLASTER CEILINGS SHALL BE LIMITED TO NOT MORE THAN 175 POUNDS. THIS LOAD SHALL BE APPLIED DIRECTLY TO THE EXISTING CEILING JOISTS. NO LOAD SHALL BE PERMITTED TO BE IN DIRECT CONTACT WITH THE CEILING GRID BETWEEN JOISTS. IF LOADS IN EXCESS OF 175 POUNDS MUST BE APPLIED ABOVE THE CEILING, THE CONTRACTOR SHALL PROVIDE A TEMPORARY PLATFORM FRAMING BACK TO THE EXISTING VERTICAL STUDS THAT PRESENTLY SUPPORT THE EXISTING CEILING JOISTS. CONSTRUCTION DOCUMENTS FOR SUCH A PLATFORM SHALL BE DESIGNED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER AND SHALL BEAR HIS MISSOURI SEAL. THESE PLANS SHALL BE SUBMITTED TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.



- SYMBOLS LEGEND:**
- X-X CEILING HEIGHT TAG
 - EXISTING SPRINKLER HEAD
 - EXISTING CHANDELIER
 - EXISTING PENDENT
 - EXISTING CEILING MOUNTED FIXTURE
 - EXISTING TUBE FIXTURE
 - EXISTING CEILING MOUNTED FIXTURE
 - EXISTING HANGING FIXTURE
 - EXISTING 2x4 LAY-IN FIXTURE
 - EXISTING CL6 MTD EXIT LIGHT
 - EXISTING CEILING RADIATOR
 - EXISTING SUPPLY AIR
 - EXISTING RETURN AIR
 - EXISTING CEILING ACCESS DOOR

- GENERAL NOTES:**
1. ALL DEMOLITION TO BE COORDINATED WITH SELECTIVE DEMOLITION SPECIFICATIONS AND ABATEMENT PACKAGE.
 2. PRIOR TO DEMOLITION, CONTRACTOR TO CAREFULLY INVENTORY, PHOTOGRAPH, SALVAGE, LABEL AND PACKAGE ALL MISCELLANEOUS "LOOSE" BUILDING RELATED MATERIALS STORED THROUGHOUT BUILDING INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, LIGHTS, FITTINGS AND FIXTURES. PLACE IN STORAGE AREA DESIGNATED BY OWNER. COORDINATE WITH ARCHITECT. REFER TO SPECIFICATIONS.
 3. PROTECT ALL EXISTING CASEWORK, DOORS, FINISHES, AND TRIM PER SPECIFICATIONS. ANY BASE AND DOOR TRIM TO BE REMOVED, SHALL BE REMOVED IN TAG TO BE REINSTALLED. DO NOT DAMAGE.
 4. REMOVE CEILING FINISHES AS REQUIRED TO ACCESS PIPING PER ABATEMENT SPECIFICATIONS.
 5. ALL LIGHT FIXTURES TO REMAIN.
 6. COMPLETELY COVER ALL ORIGINAL EXISTING WOOD AND/OR LINOLEUM FLOORS WITH MASONITE PANELS. TAPE ALL JOINTS PRIOR TO COMMENCING SELECTIVE DEMOLITION AND COVER ALL FLOORS UPON REMOVAL OF CARPET TO PROTECT FROM DEMOLITION ACTIVITIES. COORDINATE REMOVAL OF PROTECTION BOARD WITH ARCHITECT AS DEMOLITION ACTIVITIES ARE COMPLETED.

- KEY NOTES:**
- X REMOVE EXISTING PLASTER FINISH AT CEILING'S COMPLETELY IN ROOM. PLASTER SUPPORT GRID TO REMAIN. EXISTING LIGHT FIXTURES TO BE TEMPORARILY SUPPORTED BY EXISTING SUPPORT GRID.

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HISTORIC TRUMAN COURTHOUSE

SELECTIVE DEMOLITION

102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR
 CONSTRUCTION

PROJECT NO.	3811
DATE	04/16/2012
DRAWN BY	SSE
CHECKED BY	EP
CHECKED BY	CM
REVISED DATE	DESCRIPTION

SHEET TITLE & NUMBER
BASEMENT DEMO
 RCP

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HISTORIC TRUMAN COURTHOUSE

SELECTIVE DEMOLITION

102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR
 CONSTRUCTION

PROJECT NO.	3811
DATE	04/16/2012
DRAWN BY	SAS
CHECKED BY	EP
CHECKED BY	CAM
REVISED DATE	DESCRIPTION

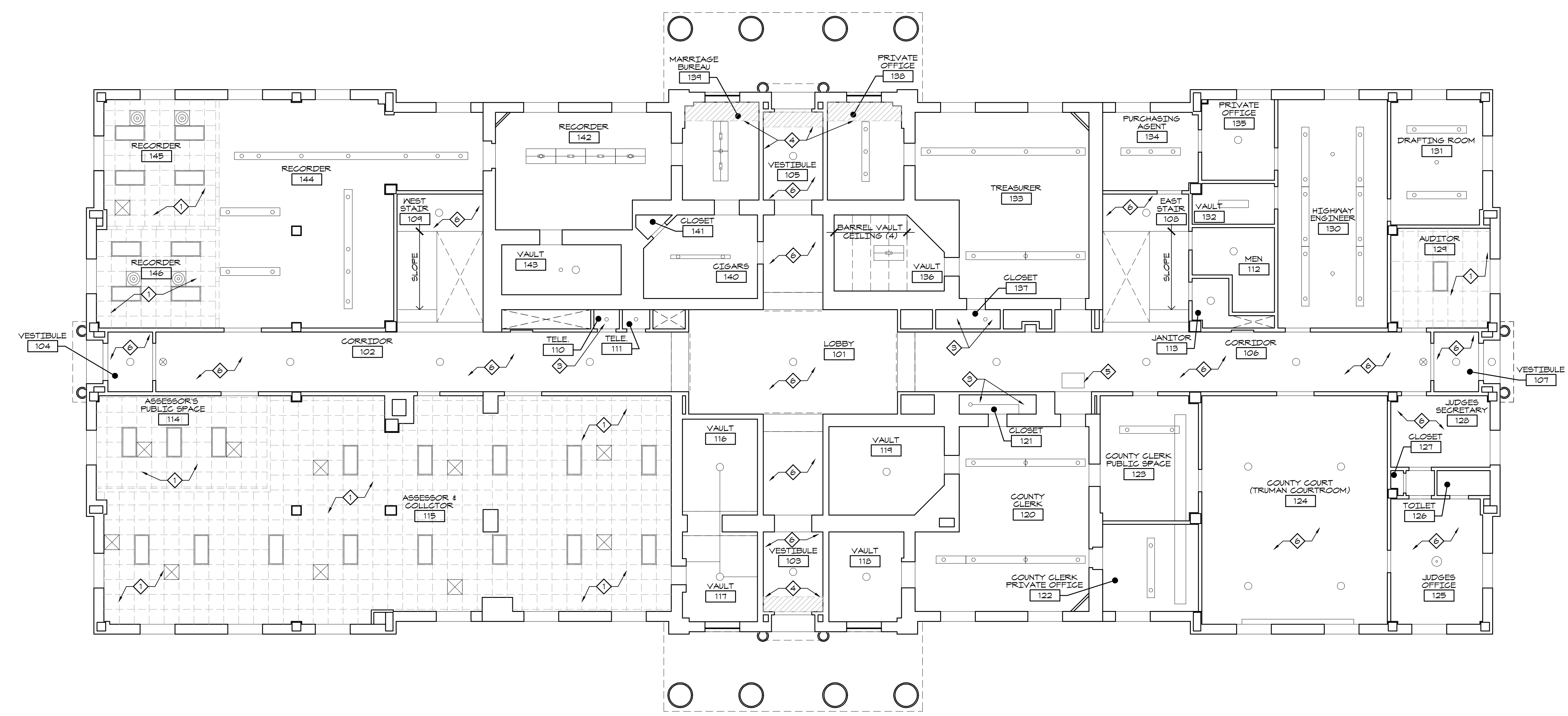
SHEET TITLE & NUMBER
**FIRST FLOOR
 DEMO RCP**
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AD-111

- SYMBOLS LEGEND:**
- X-X' CEILING HEIGHT TAG
 - ⬆️ EXISTING SPRINKLER HEAD
 - EXISTING CHANDELIER
 - EXISTING PENDENT
 - EXISTING CEILING MOUNTED FIXTURE
 - ⊗ EXISTING CEILING FAN
 - ⊞ EXISTING TUBE FIXTURE
 - ▭ EXISTING CEILING MOUNTED FIXTURE
 - ▭ EXISTING HANGING FIXTURE
 - ▭ EXISTING 2x4 LAY-IN FIXTURE
 - ⊗ EXISTING CLG MTD EXIT LIGHT
 - ⊞ EXISTING CEILING RADIATOR
 - ⊞ EXISTING SUPPLY AIR
 - ⊞ EXISTING RETURN AIR
 - ⊞ EXISTING CEILING ACCESS DOOR
 - ▭ EXISTING 2x4' LAY-IN CEILING
 - ▭ EXISTING 2x4' LAY-IN CEILING
 - ▭ EXISTING 12x12 LAMINATED CEILING
 - ▭ ALLOWABLE AREA FOR PIPE ACCESS

- GENERAL NOTES:**
- ALL DEMOLITION TO BE COORDINATED WITH SELECTIVE DEMOLITION SPECIFICATIONS AND ABATEMENT PACKAGE.
 - PRIOR TO DEMOLITION, CONTRACTOR TO CAREFULLY INVENTORY, PHOTOGRAPH, SALVAGE, LABEL AND PACKAGE ALL MISCELLANEOUS "LOOSE" BUILDING RELATED MATERIALS STORED THROUGHOUT BUILDING INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, LIGHTS, FITTINGS AND FIXTURES. PLACE IN STORAGE AREA DESIGNATED BY OWNER. COORDINATE WITH ARCHITECT. REFER TO SPECIFICATIONS.
 - PROTECT ALL EXISTING CASEWORK, DOORS, FINISHES, AND TRIM PER SPECIFICATIONS. ANY BASE AND DOOR TRIM TO BE REMOVED, SHALL BE REMOVED IN TACT TO BE REINSTALLED. DO NOT DAMAGE.
 - REMOVE CEILING FINISHES AS REQUIRED TO ACCESS PIPING PER ABATEMENT SPECIFICATIONS.
 - ALL LIGHT FIXTURES TO REMAIN.
 - COMPLETELY COVER ALL ORIGINAL EXISTING WOOD AND/OR LINOLEUM FLOORS WITH MASONITE PANELS. TAPE ALL JOINTS PRIOR TO COMMENCING SELECTIVE DEMOLITION AND COVER ALL FLOORS UPON REMOVAL OF CARPET TO PROTECT FROM DEMOLITION ACTIVITIES. COORDINATE REMOVAL OF PROTECTION BOARD WITH ARCHITECT AS DEMOLITION ACTIVITIES ARE COMPLETED.
 - DO NOT DISTURB THE TRUMAN COURTROOM, BRADY COURTROOM OR CORRIDOR CEILINGS.

- KEY NOTES:**
- ⬆️ REMOVE EXISTING LAY-IN CEILING GRID AND TILES. EXISTING LAY-IN LIGHT FIXTURES TO REMAIN. SECURE FIXTURES IN PLACE WITH CLOSEST CEILING TIE.
 - ⊞ NOT USED.
 - ⬆️ REMOVE PLASTER FINISH AT CEILINGS COMPLETELY IN ROOM. PLASTER SUPPORT GRID TO REMAIN. EXISTING LIGHT FIXTURES TO BE TEMPORARILY SUPPORTED BY EXISTING CEILING GRID.
 - ⬆️ NEATLY CUT EXISTING PLASTER FINISH AT CEILING AND/OR WALL TO ACCESS EXISTING PIPES. REFERENCE SPECIFICATIONS.
 - ⬆️ EXISTING ACCESS PANEL IN CEILING. USE TO ACCESS PIPES ABOVE CORRIDOR 106. PROTECT AS REQUIRED TO PREVENT DAMAGE TO PANEL, PLASTER AND/OR ADJACENT SURFACES.
 - ⬆️ SPECIAL CARE SHALL BE TAKEN IN HISTORIC TRUMAN SUITE, MAIN LOBBIES AND CORRIDORS TO PRESERVE AND PROTECT ALL FINISHES AND FURNISHINGS AS THEY CURRENTLY EXISTS.



1 FIRST FLOOR DEMO REFLECTED CEILING PLAN
 1/8"=1'-0"
 DRAWINGS AT 1/8" = 1'-0" WHEN PRINTED ON 24"X36" SHEET

ARCHITECT:
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HISTORIC TRUMAN COURTHOUSE

SELECTIVE DEMOLITION

102 NORTH MAIN STREET
 INDEPENDENCE, MISSOURI 64050

FOR
 CONSTRUCTION

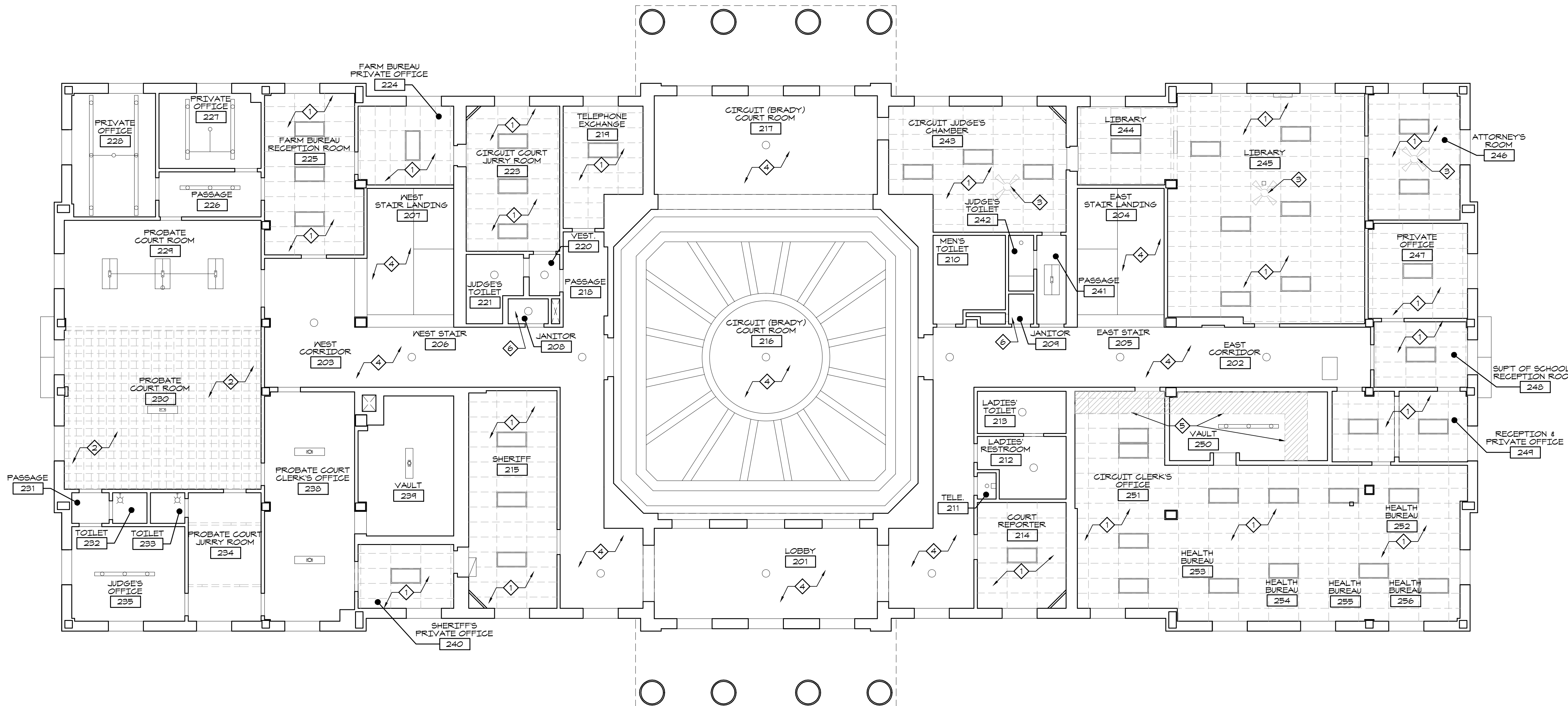
PROJECT NO.	3811
DATE	04/16/2012
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CHECKED BY	EP
CHECKED BY	CM
REVISED DATE	DESCRIPTION
SHEET TITLE & NUMBER	
SECOND FLOOR DEMO RCP	
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AD-112

- SYMBOLS LEGEND:**
- CEILING HEIGHT TAG
 - EXISTING SPRINKLER HEAD
 - EXISTING CHANDELIER
 - EXISTING PENDENT
 - EXISTING CEILING MOUNTED FIXTURE
 - EXISTING WALL MOUNTED FIXTURE
 - EXISTING CEILING FAN
 - EXISTING TUBE FIXTURE
 - EXISTING CEILING MOUNTED FIXTURE
 - EXISTING HANGING FIXTURE
 - EXISTING 2x4 LAY-IN FIXTURE
 - EXISTING CL6 MTD EXIT LIGHT
 - EXISTING CEILING RADIATOR
 - EXISTING SUPPLY AIR
 - EXISTING RETURN AIR
 - EXISTING CEILING ACCESS DOOR
 - EXISTING 2x4 LAY-IN CEILING
 - EXISTING 12x12 LAMINATED CEILING
 - ALLOWABLE AREA FOR PIPE ACCESS

- GENERAL NOTES:**
1. ALL DEMOLITION TO BE COORDINATED WITH SELECTIVE DEMOLITION SPECIFICATIONS AND ABATEMENT PACKAGE.
 2. PRIOR TO DEMOLITION, CONTRACTOR TO CAREFULLY INVENTORY, PHOTOGRAPH, SALVAGE, LABEL AND PACKAGE ALL MISCELLANEOUS "LOOSE" BUILDING RELATED MATERIALS STORED THROUGHOUT BUILDING INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, LIGHTS, FITTINGS AND FIXTURES. PLACE IN STORAGE AREA DESIGNATED BY OWNER. COORDINATE WITH ARCHITECT. REFER TO SPECIFICATIONS.
 3. PROTECT ALL EXISTING CASEWORK, DOORS, FINISHES, AND TRIM PER SPECIFICATIONS. ANY BASE AND DOOR TRIM TO BE REMOVED, SHALL BE REMOVED IN TACT TO BE REINSTALLED. DO NOT DAMAGE.
 4. REMOVE CEILING FINISHES AS REQUIRED TO ACCESS PIPING PER ABATEMENT SPECIFICATIONS.
 5. ALL LIGHT FIXTURES TO REMAIN.
 6. COMPLETELY COVER ALL ORIGINAL EXISTING WOOD AND/OR LINOLEUM FLOORS WITH MASONITE PANELS. TAPE ALL JOINTS PRIOR TO COMMENCING SELECTIVE DEMOLITION AND COVER ALL FLOORS UPON REMOVAL OF CARPET TO PROTECT FROM DEMOLITION ACTIVITIES. COORDINATE REMOVAL OF PROTECTION BOARD WITH ARCHITECT AS DEMOLITION ACTIVITIES ARE COMPLETED.
 7. DO NOT DISTURB THE TRUMAN COURTROOM, BRADY COURTROOM OR CORRIDOR CEILINGS.

- KEY NOTES:**
- REMOVE EXISTING LAY-IN CEILING GRID AND TILES. EXISTING LAY-IN LIGHT FIXTURES TO REMAIN. SECURE FIXTURES WITH CLOSEST CEILING TIE.
 - REMOVE EXISTING LAMINATED CEILING TILES AND MASTIC PER ABATEMENT SPECIFICATIONS.
 - REMOVE EXISTING CEILING FAN. SALVAGE PER OWNER.
 - SPECIAL CARE SHALL BE TAKEN IN HISTORIC CIRCUIT (BRADY) COURTROOM, MAIN LOBBY AND CORRIDORS TO PRESERVE AND PROTECT ALL FINISHES AND FURNISHINGS AS THEY CURRENTLY EXISTS.
 - NEATLY CUT EXISTING PLASTER FINISH AT CEILING AS REQUIRED TO ACCESS EXISTING PIPES OVER EAST CORRIDOR FROM EXISTING PLASTER CEILING IN CIRCUIT CLERK'S OFFICE AND VAULT. DO NOT DISTURB CEILING IN EAST CORRIDOR.
 - REMOVE PLASTER FINISH AT CEILINGS COMPLETELY IN ROOM TO ACCESS EXISTING PIPES, PLASTER SUPPORT GRID TO REMAIN. EXISTING LIGHT FIXTURES TO BE TEMPORARILY SUPPORTED BY EXISTING CEILING GRID.



1 SECOND FLOOR DEMO REFLECTIVE CEILING PLAN

1/8"=1'-0"
 DRAWING AT 1/8" = 1'-0" WHEN PRINTED ON 24"X36" SHEET