

Lisa Ruden

From: Kenny Schmitz
Sent: Wednesday, July 27, 2022 10:00 AM
To: Lisa Ruden
Subject: RE: Bid Tabulation Record Attached
Attachments: 0352_001.pdf

Low bid was Awarded to – D.W. Zinser Company in the amount of \$267,900.00

Kenny Schmitz
Director | Building Services
401 8th Street
Sioux City, Iowa 51101
712.279.6539
kschmitz@woodburycountyiowa.gov

Providing Professional Services to Woodbury County since 2015

From: Lisa Ruden <lrudden@woodburycountyiowa.gov>
Sent: Wednesday, July 27, 2022 8:14 AM
To: Kenny Schmitz <kschmitz@woodburycountyiowa.gov>
Subject: Bids

I need the bids from last night's meeting for the Prairie Hills demolition project and who it was awarded to.


Thanks
Lisa

PROJECT MANUAL

SPECIFICATIONS FOR PRAIRIE HILLS COUNTY HOME DEMOLITION

Prairie Hills County Home Demolition
1600 County Home Road
Sergeant Bluff, IA 51054

Prepared For:
Woodbury County
620 Douglas Street
Sioux City, IA 51101

	<p>I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA</p> <p><i>James Edmond</i> 6/8/22 _____ JIM EDMOND IOWA LICENSE NO. 10232 DATE</p> <p>MY LICENSE RENEWAL DATE IS DECEMBER 31, 2022</p> <p>PAGES OR SHEETS COVERED BY THIS SEAL: ALL SHEETS</p> <p>_____</p> <p>_____</p>
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June 8, 2022

CERTIFICATIONS PAGE

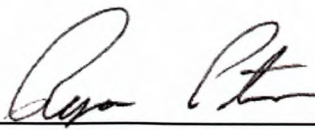
PROJECT MANUAL

for

Specifications for Prairie Hills County Home Demolition

Prairie Hills County Home
1600 County Home Road
Sergeant Bluff, IA 51054

Specifications Prepared By:



Ryan Peterson
Impact7G, Inc.

Accredited by the State of Iowa for Asbestos Project Design
License #22-8145 Expires 02-11-2023

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1600 COUNTY HOME ROAD
SERGEANT BLUFF, IA 51054

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NOTICE TO BIDDERS
PRAIRIE HILLS COUNTY HOME DEMOLITION
1600 COUNTY HOME ROAD
SERGEANT BLUFF, IA 51054

Time and Place for Filing Sealed Proposals: Sealed bids for the work consisting of demolition as stated below must be filed before 3:00 P.M. on July 26, 2022, in the Woodbury County Courthouse Board of Supervisors Office (Room 104), 620 Douglas Street, Sioux City, Iowa 51101. Bidder must provide acknowledgement of addenda, if issued. The proposal shall be sealed in an envelope, properly identified as the Proposal with the project title and the name and address of the bidder and delivered at or before the time and at the place provided in the Notice and Instruction to Bidders. It is the sole responsibility of the bidder to see that its proposal is delivered prior to the time for opening bids, along with the appropriate bid security sealed in the separate envelope identified as Bid Security, if required, and attached to the outside of the bid proposal envelope. Any proposal received after the scheduled time for the receiving of proposals will be returned to the bidder unopened and will not be considered. Bidder shall include verification of license to remove asbestos meeting the requirements of Iowa Code, Chapter 88B.

Time and Place Sealed Proposals Will be Opened and Considered: Sealed proposals will be opened, and bids tabulated at 3:00 P.M. on July 26, 2022, in the Woodbury County Courthouse Board of Supervisors Office (Room 104), 620 Douglas Street, Sioux City, Iowa 51101. Bid Proposals will be officially "Received" and acted upon July 26, 2022, 4:45 pm Woodbury County Board of Supervisors Meeting, Woodbury County Courthouse Lower Level. Woodbury County reserves the right to reject any and all bids.

Time for Commencement and Completion of Work: Work on the improvement shall commence upon approval of the contract by Woodbury County, and as stated in the Notice to Proceed. The contractor shall have the project complete by November 4, 2022 (105 days after the Notice to Proceed).

Bid Security. Each bidder shall accompany its bid with bid security, as defined in Section 26.8 of the Iowa Code in the amount equal to 5 percent of the total amount of the bid.

Pre-Bid Meeting: A **MANDATORY** pre-bid meeting and walkthrough is scheduled for at 10:00 A.M. on Thursday July 14, 2022. Bidders will be invited to ask questions and tour the facility. Bidders will be required to sign an attendance form at the meeting.

Contract Documents: The Project Manual governing the demolition which has been made a part of this Notice and the proposed contract are on file with the Woodbury County Building Services Office located at 401 8th Street, Sioux City, Iowa 51101; phone 712-279-6539. The Project Manual can be obtained from Impact7G at 8951 Windsor Parkway, Johnston, IA 50131; phone 515-473-6256 or via email from jreis@impact7g.com. Complete digital project bidding documents are available for free by entering QUEST project #8237935 on the website's Project Search page. Please contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in free membership registration, viewing, downloading, and working with this digital project information.

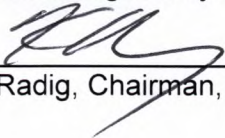
Public Hearing: A public hearing will be held by Woodbury County on the proposed contract documents (plans, specifications and form of contract) and estimated cost for the improvement at its meeting at 4:40 P.M. on Tuesday July 5, 2022, at the Woodbury County Courthouse, 620 Douglas St., Room 104, Sioux City, IA 51101.

Sales Tax Exemption Certificates. The bidder shall not include sales tax in the bid. Woodbury County will distribute tax exemption certificates and authorization letters to the Contractor and all subcontractors who are identified. The Contractor and subcontractor may make copies of the tax exemption certificates and provide a copy to each supplier providing construction materials. These tax exemption certificates and authorization letters are applicable only for this specific project under the Contract.

Payment. Woodbury County will provide payment of the base bid amount from Bid Forms Proposal Attachment Part C upon successful of each bid line item minus a 10% retainage. The mobilization will be paid upon execution of the signed contract. The 10% retainage will be paid once final documentation has been provided.

PROJECT DESCRIPTION: The work includes demolition of the former County Home building and additions located at 1600 County Home Road, Sergeant Bluff, Iowa 51504. The property includes a 3-story building with a base area of 9,220 square feet (sf); a 12,472-sf base area addition, a 1,600-sf base area addition, a 640-sf base area addition, and two 40-sf base area additions. All buildings, with the exception of the 12,472-sf base area addition (1975), were constructed in 1921. The 9,200-sf building and 1,600-sf addition each have a gable roof covered by shingles. All other structures have a built-up, flat roof. All structures are brick. Demolition includes removal of foundation footings, basement slabs, and any tunnels or crawl spaces. The work includes removal and disposal of Asbestos Containing Materials (ACMs), hazardous and non-hazardous materials, designated structures, and one underground storage tank on the property. Specifications for asbestos removal includes both friable and non-friable ACMs. All ACMs removed from the Property must be disposed of at a permitted facility that accepts asbestos. All materials removed from the property shall be done in accordance with local, state, and federal regulations. The work also includes backfilling of all existing tunnels, basements, etc... associated with the demolition and rough site grading.

This Notice is given by authority of Woodbury County



Keith Radig, Chairman, Woodbury County Board of Supervisors

END OF SECTION

REQUEST FOR QUALIFICATIONS
PRAIRIE HILLS COUNTY HOME DEMOLITION
1600 COUNTY HOME ROAD
SERGEANT BLUFF, IA 51054

The bidder is required to submit the Qualification and Bidder Reference Form including documentation. If a bidder fails to complete the form and meet the qualifications requirements, their bid will not be considered. In addition to the qualification requirements on this form, the bidder is required to meet all additional bonding and insurance requirements in the bid documents and attend the pre-bid meeting.

Qualifications Information: List 3 distinct demolition projects similar to this completed within the previous 5 years.

1. Project Name & Owner: Jackson Elementary / City of Cedar Rapids
Project Address: 1300 35th St. NW Cedar Rapids, IA 52405
Project Value: 163,299
Date of Project Completion: June 2022

2. Project Name & Owner: 520 E Ave NW Cedar Rapids, IA / Johnson Gas
Project Address: _____
Project Value: 193,200
Date of Project Completion: June 2022

3. Project Name & Owner: Briggs Building / City of Colfax
Project Address: 112 South Walnut Street Colfax, IA
Project Value: 549,000
Date of Project Completion: May 2022

List all surety/bonding companies utilized in the past five (5) years:

1. Holmes Murphy, Waukegan, IA.
2. _____
3. _____
4. _____
5. _____

BIDDER REFERENCE FORM

Fill out this form and include it in the proposal. Three (3) distinct projects completed within the previous 5 years are required. All boxes must be checked and all fields completed for the proposal to be considered responsive.

Reference Project #1: Jackson Elementary CR, IA
(Name of Project, City, State)

Reference Questions:

- Yes No Did your firm perform the demolition?
 Yes No Did demolition occur within the past 5 years?
 Yes No Is the demolition complete?
 Yes No Was demolition completed with no damage claims?
(includes any claims settled privately or submitted to insurance)
 Yes No The name of the company, contact person, and phone/email of

project owner is provided here: Chad Schumacher 319-363-6018

Reference Project #2: Johnson Gas, CR, IA
(Name of Project, City, State)

Reference Questions:

- Yes No Did your firm perform the demolition?
 Yes No Did demolition occur within the past 5 years?
 Yes No Is the demolition complete?
 Yes No Was demolition completed with no damage claims?
(includes any claims settled privately or submitted to insurance)
 Yes No The name of the company, contact person, and phone/email of

project owner is provided here: Marty Chute 319-310-6254

Reference Project #3: Briggs Building Colfax, IA
(Name of Project, City, State)

Reference Questions:

- Yes No Did your firm perform the demolition?
 Yes No Did demolition occur within the past 5 years?
 Yes No Is the demolition complete?
 Yes No Was demolition completed with no damage claims?
(includes any claims settled privately or submitted to insurance)
 Yes No The name of the company, contact person, and phone/email of

project owner is provided here: Wade Wagoner 515-360-7269

I, Bidder, certify that all responses on this form are correct: R

INSTRUCTIONS TO BIDDERS
PRAIRIE HILLS COUNTY HOME DEMOLITION
1600 COUNTY HOME ROAD
SERGEANT BLUFF, IA 51054

Contractors must read the Project Manual in its entirety and comply with the requirements. Please be certain that all documents have been completed properly, as failure to complete and sign all documents and to comply with the requirements listing within the Project Manual can cause your bid not to be read.

I. BID SECURITY

- A. The bid security must be in the minimum amount of 5% of the total bid amount including all add alternates (do not deduct the amount of alternates). Bid security shall be in the form of a cashier's check, a certified check drawn on a FDIC insured bank in Iowa or drawn on a FDIC insured bank chartered under the laws of the United States; or a certified share draft drawn on a credit union in Iowa or chartered under the laws of the United States; or a bid bond executed by a corporation authorized to contract as a surety in Iowa or satisfactory to the Jurisdiction.
- B. The bid bond must be submitted on the enclosed Bid Bond form as no other bid bond forms are acceptable. All signatures on the bid bond must be original signatures in ink; facsimile (fax) of any signature on the bid bond is not acceptable.
- C. Bid security other than said bid bond shall be in accordance with Chapter 26 of the Iowa Code.

II. PRE-BID ACCESS TO THE SITE

- A. A MANDATORY pre-bid meeting will be held on site, 1600 County Home Road, Sergeant Bluff, Iowa at 10:00 A.M. on Thursday July 14, 2022.

III. SUBMISSION OF THE PROPOSAL AND IDENTITY OF BIDDER

- A. Sealed bids for the work consisting of demolition as stated below must be filed before 3:00 P.M. on July 26, 2022, in the Woodbury County Courthouse Board of Supervisors Office (Room 104), 620 Douglas Street, Sioux City, Iowa 51101. Bidder must provide acknowledgement of addenda, if issued. The proposal shall be sealed in an envelope, properly identified as the Proposal with the project title and the name and address of the bidder and delivered at or before the time and at the place provided in the Notice and Instruction to Bidders. It is the sole responsibility of the bidder to see that its proposal is delivered prior to the time for opening bids, along with the appropriate bid security sealed in the separate envelope identified as Bid Security, if required, and attached to the outside of the bid proposal envelope. Any proposal received after the scheduled time for the receiving of proposals will be returned to the bidder unopened and will not be considered. Bidder shall include verification of license to remove asbestos meeting the requirements of Iowa Code, Chapter 88B.

B. The following documents shall be completed, signed and returned in the Proposal envelope. The bid cannot be read if any of these documents are omitted from the Proposal envelope.

1. REQUEST FOR QUALIFICATIONS – Complete each of the following parts:

- Request for Qualifications
- Bidder Reference Form

2. PROPOSAL – Complete each of the following parts:

- Part B – Acknowledgment of Addenda, if any have been issued;
- Part C – Bid Items, Quantities and Prices
- Part F – Identity of Bidder;

Sign the proposal. The signature on the proposal and all proposal attachments must be an original signature in ink signed by the same individual who is the Company Owner or an authorized Officer of the Company; copies, facsimiles, or electronic signatures will not be accepted.

The following documents must be submitted as printed. No alterations, additions, or deletions are permitted. If the Bidder notes a requirement in the contract documents which the Bidder believes will require a conditioned or unsolicited alternate bid, the Bidder must immediately notify Jon Reis, of Impact7G in writing. Impact7G will issue any necessary interpretation by an addendum for Woodbury County.

C. Bidder shall include verification of license to remove asbestos meeting the requirements of Iowa Code, Chapter 88B.

IV. PROSECUTION AND PROGRESS OF THE WORK

A. The work is located outside of Sergeant Bluff in Woodbury County.

Work shall commence upon approval of the contract by the Woodbury County Board of Supervisors, and as stated in the Notice to Proceed. All work under the Contract must be substantially complete on or before 105 days after the Notice to Proceed.

B. Each successful bidder will be required to furnish a corporate surety bond in an amount equal to 100% of its contract price. Said bond shall be issued by a responsible surety approved by Woodbury County and shall guarantee the faithful performance of the contract and the terms and conditions therein contained and shall guarantee the prompt payment of all material and labor, and protect and save harmless Woodbury County from claims and damages of any kind caused by the operations of the contract and shall also guarantee the maintenance of the improvement caused by failures in materials and construction for a period of two years from and after acceptance of the contract.

C. Woodbury County, in accordance with Title VI of the Civil Rights Act of 1964, as Amended, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority 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.

- D. Once Contractor has mobilized to begin construction, Contractor shall remain on-site until Project is substantially complete as determined by Woodbury County or their Consultant.

V. PREFERENCE OF PRODUCTS AND LABOR

- A. Preference shall be given to domestic construction materials by the contractor, subcontractors, material, men, and suppliers in performance of the contract and further, by virtue of statutory authority, preference will be given to products and provisions grown and coal produced within the State of Iowa. Failure to submit a fully completed Bidder Status Form with the bid may result in the bid being deemed nonresponsive and rejected

VI. TAXES

- A. Sales Tax Exemption Certificates. The bidder shall not include sales tax in the bid. Woodbury County will distribute tax exemption certificates and authorization letters to the Contractor and all subcontractors who are identified. The Contractor and subcontractor may make copies of the tax exemption certificates and provide a copy to each supplier providing construction materials. These tax exemption certificates and authorization letters are applicable only for this specific project under the Contract.
- B. Income Tax:
 - a. Successful Bidder is subject to payment of Iowa income tax on income from this work in amounts prescribed by law.
 - b. If successful bidder is a non-Iowa partnership, individual or association, he shall furnish evidence prior to execution of contract that bond or securities have been posted with the Iowa Department of Revenue in the amount required by law.

****END OF SECTION****

BID FORMS
PRAIRIE HILLS COUNTY HOME DEMOLITION
1600 COUNTY HOME ROAD
SERGEANT BLUFF, IA 51054

PROPOSAL: PART A – SCOPE

Woodbury County, hereinafter called "COUNTY", has need for a permitted contractor to complete the work comprising the below referenced improvement. The undersigned Bidder hereby proposes to complete the work as specified in the contract documents, at the prices hereinafter provided in Part C of the Proposal, for the following described improvements:

PROJECT DESCRIPTION: The work includes demolition of the former County Home building and additions located at 1600 County Home Road, Sergeant Bluff, Iowa 51504. The property includes a 3-story building with a base area of 9,220 square feet (sf); a 12,472-sf base area addition, a 1,600-sf base area addition, a 640-sf base area addition, and two 40-sf base area additions. All buildings, with the exception of the 12,472-sf base area addition (1975), were constructed in 1921. The 9,200-sf building and 1,600-sf addition each have a gable roof covered by shingles. All other structures have a built-up, flat roof. All structures are brick. Demolition includes removal of foundation footings, basement slabs, and any tunnels or crawl spaces. The work includes removal and disposal of Asbestos Containing Materials (ACMs), hazardous and non-hazardous materials, designated structures, and one underground storage tank on the property. Specifications for asbestos removal includes both friable and non-friable ACMs. All ACMs removed from the Property must be disposed of at a permitted facility that accepts asbestos. All materials removed from the property shall be done in accordance with local, state, and federal regulations. The work also includes backfilling of all existing tunnels, basements, etc... associated with the demolition and rough site grading.

PROPOSAL: PART B – ACKNOWLEDGMENT OF ADDENDA

The Bidder hereby acknowledges that all addenda become a part of the contract documents when issued, and that each such addendum has been received and utilized in the preparation of this bid. The Bidder hereby acknowledges receipt of the following addenda by inserting the number of each addendum in the blanks below:

ADDENDUM NUMBER #17-20-2022 ADDENDUM NUMBER _____
ADDENDUM NUMBER _____ ADDENDUM NUMBER _____

PROPOSAL: PART C – BID ITEMS AND QUANTITIES

This is a **LUMP SUM PRICE CONTRACT**. The Quantities shown on the Proposal Attachment: Part C – Bid Items and Quantities are approximate only but are considered sufficiently adequate for the purpose of comparing bids. The COUNTY shall use the Total Price and any selected alternates for comparison of bids.

PROPOSAL: PART D – GENERAL

The Bidder hereby acknowledges that the COUNTY, in advertising for bids for this project, reserves the right to:

1. Reject any or all bids. Award of the contract, if any, to be to the lowest responsive, responsible bidder; and
2. Reject any or all alternates in determining the items to be included in the contract. Designation of the lowest responsive, responsible bidder to be based on the base bid and selected alternatives, if any; and
3. Make such alterations in the contract documents or in the proposal quantities as it determines necessary in accordance with the contract documents after execution of the contract. Such alterations shall not be considered a waiver of any conditions of the contract documents, and shall not invalidate any of the provisions thereof; and

The Bidder hereby agrees to:

1. Commence the work upon written Notice to Proceed, and
2. Complete the project by November 4, 2022 (105 days after the Notice to Proceed).

PROPOSAL: PART E – NON-COLLUSION AFFIDAVIT

The Bidder hereby certifies:

1. That this proposal is not affected by, contingent on, or dependent on any other proposal submitted for any improvement with COUNTY; and
2. That no individual employed by the Bidder has employed any person to solicit or procure the work on this project, nor will any employee of the Bidder make any payment or agreement for payment of any compensation in connection with the procurement of this project; and
3. That no part of the bid price received by the Bidder was or will be paid to any person, corporation, firm, association, or other organization for soliciting the bid, other than the payment of their normal compensation to persons regularly employed by the Bidder whose services in connection with the construction of the project were in the regular course of their duties for the Bidder; and
4. That this proposal is genuine and not collusive or sham; that the Bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any bidder or person, to submit a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought, by agreement or collusion, or communication or conference, with any person, to fix the bid price of the Bidder or of any other bidder, and that all statements in this proposal are true; and
5. That the individual(s) executing this proposal have the authority to execute this proposal on behalf of the Bidder.

PROPOSAL: PART F – IDENTITY OF BIDDER

The bidder shall indicate whether the bid is Submitted by a/an:

Individual,
Sole Proprietorship

Partnership

Corporation

Limited Liability Company

Joint-venture; all parties must
join-in and execute all documents

Other

D. W. Zinser Company, Inc

Bidder

[Handwritten Signature]

Signature

By Kyle Fisher

Name (Print/Type)

General Manager

Title

1775 Commercial Dr.

Street Address

Waldorf, IA 52351

City, State, Zip Code

319-846-8090

Telephone Number

Type or print the name and title of the
company's owner, president, CEO, etc. if
a different person than entered above

David Zinser

Name

CEO

Title

NOTE: The signature on this proposal must be an original signature in ink by the same individual who is the Company Owner or authorized Officer of the Copy; copies, facsimiles, or electronic signatures will not be accepted.

PROPOSAL ATTACHMENT: PART C – BID ITEMS, QUANTITIES, AND PRICES

This is a **LUMP SUM PRICE CONTRACT**. The Quantities shown on the Proposal Attachment: Part C – Bid Items and Quantities are approximate only but are considered sufficiently adequate for the purpose of comparing bids. The COUNTY shall use the Total Price and any selected alternates for comparison of bids.

Materials and quantities are approximate only but are considered adequate for the purpose of this Project Manual. The contractor is responsible for verification of all materials and quantities listed below. No additions to the contract will be allowed for additional ACMs or hazardous materials discovered that amount to less than ten percent (10%) of each material listed below. If additional amounts greater than ten percent (10%) are identified, contractor is to stop work and notify the COUNTY and/or COUNTY'S consultant immediately. No compensation for removal of suspect ACMs or hazardous materials without prior authorization by COUNTY and/or COUNTY'S consultant will be approved. All materials and quantities are subject to revision by the COUNTY.

BASE BID PRICE BREAKDOWN INFORMATION

ITEM	DESCRIPTION	TOTAL PRICE
1	Mobilization	\$ 7,500. ⁰⁰ / ₁₀₀
2	Asbestos Abatement and Disposal & Hazardous Materials Removal and Disposal	\$ 65,000. ⁰⁰ / ₁₀₀
3	Building Demolition and Disposal	\$ 195,400. ⁰⁰ / ₁₀₀
TOTAL AMOUNT BID		\$ 267,900.⁰⁰

BID ALTERNATES:

DEDUCT ALTERNATE #1: Complete the project by February 1, 2023.

1. **Base Bid:** Complete the project by November 8, 2022.
2. **Alternate Bid:** Complete the project by February 1, 2023.

3. **Deduct:** ZERO DOLLARS Dollars (\$ Ø)

The amount proposed by the bidder for DEDUCT ALTERNATE #1 is the amount that will be deducted from the Base Bid amount if the COUNTY decides to accept the corresponding change.

ASBESTOS CONTAINING MATERIAL LIST

Sample #	Material Substance	Color	Floor	Location	Asbestos Content	Est. Quantity
13 ABC	Fire Door Insulation	White	3	Mid Hall Stairway	10% Amosite 5% Chrysotile	7 EA
26	Linoleum Flooring	Beige	3	NE Stairway	20% Chrysotile	250 SF
34	2' x 2' Ceiling Tile (Pins Long Gouge)	Gray/White	2	W Bathroom	1.25% Chrysotile	750 SF
45	Linoleum Flooring	Yellow	2	SE Room	20% Chrysotile	250 SF
50	Sink Undercoat	Black	1	NE Med Room	2% Chrysotile	2 EA
64	9" x 9" Floor Tile	Beige	1	Kitchen S Room	2% Chrysotile	250 SF
66	Sink Undercoat	Black	1	Kitchen	2% Chrysotile	(See 50)
71	12" x 12" Floor Tile	Beige	1	Connector E Room	2% Chrysotile	340 SF
84	Roof Paper-Mid Layer	Black	Roof	Gym Roof	25% Chrysotile	3,750 SF
89	Vent Caulk	Black	Roof	Gym Roof	3% Chrysotile	100 LF
98 A	Boiler Insulation	White	Basement	Boiler Room	20% Amosite 2% Chrysotile	210 SF
98 B	Boiler Insulation	White	Basement	Boiler Room	10% Amosite 10% Chrysotile	(See 98A)
98 C	Boiler Insulation	White	Basement	Boiler Room	2% Amosite 20% Chrysotile	(See 98A)
104	Overhang Concrete Board	Gray	Exterior	S Addition	20% Chrysotile	290 SF
107	Expansion Joint Compound	Gray/Tan	Exterior	Building 1 N Side Above Window	2% Chrysotile	510 LF
111C	Mudded Fitting	White	Basement	Boiler Room	5% Chrysotile	18 Fittings

Nine samples were identified by the laboratory with a concentration <1% asbestos when analyzed via point count analysis. Therefore, these materials are not regulated by the EPA. Iowa OSHA would consider disturbance of these nine materials as unclassified asbestos work. The materials are identified in the Asbestos Containing Materials Inspection Report in Appendix 2.

NOTE: IT IS UNDERSTOOD THAT THE QUANTITIES OF ACMS DOCUMENTED WITHIN THIS PROJECT MANUAL ARE ESTIMATED FOR THE PURPOSE OF THIS BID. ALL QUANTITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO SUBMISSION OF BID.

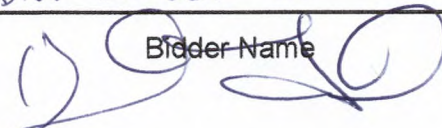
HAZARDOUS BUILDING MATERIALS AND EQUIPMENT LIST

Product Name/Description	Quantity	Comments
Appliances	6	Washer, dryers, water heaters, dehumidifier
Batteries	13	
Biohazard	2	Containers of used urine sample cups
CFC Units	35	Air conditioners, refrigeration units, ice makers
CRT Monitors	21	Computer monitors & televisions
Emergency Lights	17	
Elevator	1	Hydraulic operated
Exit Signs	45	
Fire Extinguishers	45	Included kitchen fire suppression system
Lamp, Ballasts	358	
Lamp, Fluorescent	1,171	
Lamp, HID	24	
Mercury Devices/Suspect Devices	41	Thermostats & controls
Microwaves	5	
PCB Devices/Suspect Devices	1	Exterior transformer
Radioactive Devices; Smoke Detectors	65	
Radioactive Devices; X-Ray	1	
Vessels larger than 100 Gallons	4	Boilers, pressure tanks and 500-gallon diesel AST

NOTE: IT IS UNDERSTOOD THAT THE QUANTITIES OF HAZARDOUS BUILDING MATERIALS AND EQUIPMENT DOCUMENTED WITHIN THIS PROJECT MANUAL ARE ESTIMATED FOR THE PURPOSE OF THIS BID. ALL QUANTITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO SUBMISSION OF BID.

D.W. ZINSEY Co.

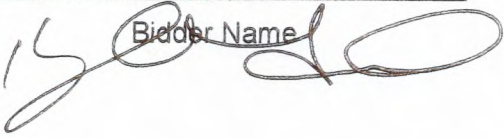
 Bidder Name



NOTE:

IT IS UNDERSTOOD THAT THE QUANTITIES OF HAZARDOUS BUILDING MATERIALS AND EQUIPMENT DOCUMENTED WITHIN THIS PROJECT MANUAL ARE ESTIMATED FOR THE PURPOSE OF THIS BID. ALL QUANTITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO SUBMISSION OF BID.

D.W. ZINSEN Co.

Bidder Name 

**CONTRACTING FORMS AND SUPPLEMENTS
PRAIRIE HILLS COUNTY HOME DEMOLITION
1600 COUNTY HOME ROAD
SERGENT BLUFF, IA 51054**

THIS CONTRACT, made and entered into at Woodbury County Iowa this 26TH day of July, 2022, by and between Woodbury County (COUNTY), and D. W. ZINSER Co., hereinafter called the "Contractor".

WITNESSETH:

The Contractor hereby agrees to complete the work comprising of demolition as specified in the contract documents, which are officially on file with the Woodbury County Building Services Office located at 401 8th Street, Sioux City, Iowa 51101. This contract includes all such contract documents. The Contractor further agrees to complete the work in strict accordance with said contract documents, and to guarantee the work as required by law, for the time required in said contract documents, after its acceptance by COUNTY.

This contract is awarded and executed for completion of the work specified in the contract documents for the bid prices shown on the Contract Attachment: Bid Items and Quantities which were proposed by the Contractor in its proposal submitted in accordance with the Notice to Bidders and Notice of Public Hearing for the following described improvements:

PROJECT DESCRIPTION: The work includes demolition of the former County Home building and additions located at 1600 County Home Road, Sergeant Bluff, Iowa 51504. The property includes a 3-story building with a base area of 9,220 square feet (sf); a 12,472-sf base area addition, a 1,600-sf base area addition, a 640-sf base area addition, and two 40-sf base area additions. All buildings, with the exception of the 12,472-sf base area addition (1975), were constructed in 1921. The 9,200-sf building and 1,600-sf addition each have a gable roof covered by shingles. All other structures have a built-up, flat roof. All structures are brick. Demolition includes removal of foundation footings, basement slabs, and any tunnels or crawl spaces. The work includes removal and disposal of Asbestos Containing Materials (ACMs), hazardous and non-hazardous materials, designated structures, and one underground storage tank on the property. Specifications for asbestos removal includes both friable and non-friable ACMs. All ACMs removed from the Property must be disposed of at a permitted facility that accepts asbestos. All materials removed from the property shall be done in accordance with local, state, and federal regulations. The work also includes backfilling of all existing tunnels, basements, etc... associated with the demolition and rough site grading.

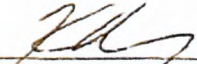
The Contractor agrees to perform said work for and in consideration of COUNTY'S payment of the bid amount of TWO HUNDRED SIXTY SEVEN THOUSAND NINE HUNDRED dollars (\$ _____). Work on the improvement shall commence upon approval of the contract by COUNTY, and as stated in the Notice to Proceed. The contractor shall complete the project by November 8, 2022.

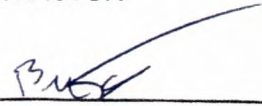
IN WITNESS WHEREOF, the Parties hereto have executed this instrument, in triplicate on the date first shown written.

COUNTY


CONTRACTOR

By


Keith Radig, Woodbury County Board
of Supervisors, Chairman



(Seal)
ATTEST:


Patrick Gill, Woodbury County Auditor

By

Brent Tegels
Contractor's Contact Name
Contractor's Title

1775 Commercial Dr
Street Address

Walford, IA ~~52110~~ 52351
City, State, Zip Code

319-846-8090
Telephone

NOTICE TO PROCEED

Jurisdiction: Woodbury County, Iowa

Contractor: T.D.W. ZINSER

Engineer:

Project: Prairie Hills Center Demolition

Effective Date of

Contract: 7-26-2022

TO CONTRACTOR:

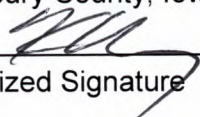
Jurisdiction hereby notifies Contractor that the Contract Times under the above Contract will commence to run on July 27th, 2022.

On that date, Contractor shall start performing its obligations under the Contract Documents. No Work shall be done at the Site prior to such date. In accordance with the Contract, the number of calendar days to achieve Substantial Completion and readiness for final payment is 90.

Before starting any work at the Site, Contractor must comply with the following:

[Note any access limitations, security procedures, or other restrictions]

Jurisdiction: Woodbury County, Iowa



Authorized Signature

By: Keith Radig

Title: Woodbury County Board of Supervisors, Chairman

Date Issued: 7-26-2022

Copy: Woodbury County Building Services Office

**PERFORMANCE, PAYMENT, AND MAINTENANCE BOND FOR
PRAIRIE HILLS COUNTY HOME DEMOLITION
1600 COUNTY HOME ROAD
SERGENT BLUFF, IA 51054**

KNOW ALL BY THESE PRESENTS:

That we, _____, as Principal (hereinafter the "Contractor" or "Principal"), and _____, as Surety, are held and firmly bound unto Woodbury County, Iowa, as Obligee (hereinafter referred to as the "Jurisdiction"), and to all persons who may be injured by any breach of any of the conditions of this Bond in the penal sum of _____

dollars (\$ _____), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, legal representatives and assigns, jointly or severally, firmly by these presents.

The conditions of the above obligations are such that whereas said Contractor entered into a contract with the Jurisdiction bearing date the _____ day of _____, 20____ (hereinafter the "Contract"), wherein said Contractor undertakes and agrees to construct the following described improvements:

The work includes demolition of the former County Home building and additions located at 1600 County Home Road, Sergeant Bluff, Iowa 51504. The property includes a 3-story building with a base area of 9,220 square feet (sf); a 12,472-sf base area addition, a 1,600-sf base area addition, a 640-sf base area addition, and two 40-sf base area additions. All buildings, with the exception of the 12,472-sf base area addition (1975), were constructed in 1921. The 9,200-sf building and 1,600-sf addition each have a gable roof covered by shingles. All other structures have a built-up, flat roof. All structures are brick. Demolition includes removal of foundation footings, basement slabs, and any tunnels or crawl spaces. The work includes removal and disposal of Asbestos Containing Materials (ACMs), hazardous and non-hazardous materials, designated structures, and one underground storage tank on the property. Specifications for asbestos removal includes both friable and non-friable ACMs. All ACMs removed from the Property must be disposed of at a permitted facility that accepts asbestos. All materials removed from the property shall be done in accordance with local, state, and federal regulations. The work also includes backfilling of all existing tunnels, basements, etc... associated with the demolition and rough site grading.

The Contractor agrees to faithfully perform all the terms and requirements of said Contract within the time therein specified, in a good and workmanlike manner, and in accordance with the Contract Documents.

It is expressly understood and agreed by the Contractor and Surety in this Bond that the following provisions are a part of this Bond and are binding upon said Contractor and Surety, to-wit:

1. **PERFORMANCE:** The Contractor shall well and faithfully observe, perform, fulfill, and abide by each and every covenant, condition, and part of said Contract and Contract Documents, by reference made a part hereof, for the above referenced improvements, and shall indemnify and save harmless the Jurisdiction from all outlay and expense incurred by the Jurisdiction by reason of the Contractor's default of failure to perform as required. The Contractor shall also be responsible for the default or failure to perform as required under the Contract and Contract Documents by all its subcontractors, suppliers, agents, or employees furnishing materials or providing labor in the performance of the Contract.
2. **PAYMENT:** The Contractor and the Surety on this Bond hereby agreed to pay all just claims submitted by persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the performance of the Contract on account of which this Bond is given, including but not limited to claims for all amounts due for labor, materials, lubricants, oil, gasoline, repairs on machinery, equipment, and tools, consumed or used by the Contractor or any subcontractor, wherein the same are not satisfied out of the portion of the contract price the Jurisdiction is required to retain until completion of the improvement, but the Contractor and Surety shall not be liable to said persons, firms, or corporations unless the claims of said claimants against said portion of the contract price shall have been established as provided by law. The Contractor and Surety hereby bind themselves to the obligations and conditions set forth in Chapter 573 of the Iowa Code, which by this reference is made a part hereof as though fully set out herein.
3. **MAINTENANCE:** The Contractor and the Surety on this Bond hereby agree, at their own expense:
 - a. To remedy any and all defects that may develop in or result from work to be performed under the Contract within the period of two year(s) from the date of acceptance of the work under the Contract, by reason of defects in workmanship or materials used in construction of said work;
 - b. To keep all work in continuous good repair; and
 - c. To pay the Jurisdiction's reasonable costs of monitoring and inspection to assure that any defects are remedied, and to repay the Jurisdiction all outlay and expense incurred as a result of Contractor's and Surety's failure to remedy any defect as required by this section.
4. **GENERAL:** Every Surety on this Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:
 - a. To consent without notice to any extension of time to the Contractor in which to perform the Contract;
 - b. To consent without notice to any change in the Contract or Contract Documents, which thereby increases the total contract price and the penal sum of this Bond, provided that all such changes do not, in the aggregate, involve an increase of more than 20% of the total contract price, and that this Bond shall then be released as to such excess increase; and
 - c. To consent without notice that this Bond shall remain in full force and effect until the Contract is completed, whether completed within the specified contract period, within an extension thereof, or within a period of time after the contract period has elapsed and the liquidated damage penalty is being charged against the Contractor.

- d. That no provision of this Bond or of any other contract shall be valid that limits to less than five years after the acceptance of the work under the Contract the right to sue on this Bond.
- e. That as used herein, the phrase "all outlay and expense" is not to be limited in any way, but shall include the actual and reasonable costs and expenses incurred by the Jurisdiction including interest, benefits, and overhead where applicable. Accordingly, "all outlay and expense" would include but not be limited to all contract or employee expense, all equipment usage or rental, materials, testing, outside experts, attorneys' fees (including overhead expenses of the Jurisdiction's staff attorneys), and all costs and expenses of litigation as they are incurred by the Jurisdiction. It is intended the Contractor and Surety will defend and indemnify the Jurisdiction on all claims made against the Jurisdiction on account of Contractor's failure to perform as required in the Contract and Contract Documents, that all agreements and promises set forth in the Contract and Contract Documents, in approved change orders, and in this Bond will be fulfilled, and that the Jurisdiction will be fully indemnified so that it will be put into the position it would have been in had the Contract been performed in the first instance as required.

In the event the Jurisdiction incurs any "outlay and expense" in defending itself against any claim as to which the Contractor or Surety should have provided the defense, or in the enforcement of the promises given by the Contractor in the Contract, Contract Documents, or approved change orders, or in the enforcement of the promises given by the Contractor and Surety in this Bond, the Contractor and Surety agree that they will make the Jurisdiction whole for all such outlay and expense, provided that the Surety's obligation under this Bond shall not exceed 125% of the penal sum of this Bond.

In the event that any actions or proceedings are initiated regarding this Bond, the parties agree that the venue thereof shall be Woodbury County, State of Iowa. If legal action is required by the Jurisdiction to enforce the provisions of this Bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Contractor and the Surety agree, jointly and severally, to pay the Jurisdiction all outlay and expense incurred therefor by the Jurisdiction. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers, and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against surety for any amount guaranteed hereunder whether action is brought against the Contractor or whether Contractor is joined in any such action(s) or not.

NOW THEREFORE, the condition of this obligation is such that if said Principal shall faithfully perform all the promises of the Principal, as set forth and provided in the Contract, in the Contract Documents, and in this Bond, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

When a word, term, or phrase is used in this Bond, it shall be interpreted or construed first as defined in this Bond, the Contract, or the Contract Documents; second, if not defined in the Bond, Contract, or Contract Documents, it shall be interpreted or construed as defined in applicable provisions of the Iowa Code; third, if not defined in the Iowa Code, it shall be interpreted or construed according to its generally accepted meaning in the construction industry; and fourth, if it has no generally accepted meaning in the construction industry, it shall be interpreted or construed according to its common or customary usage.

Failure to specify or particularize shall not exclude terms or provisions not mentioned and shall not limit liability hereunder. The Contract and Contract Documents are hereby made a part of this Bond.

Witness our hands, in triplicate, this _____ day of _____, 20_____.

Surety Countersigned By:

PRINCIPAL:

Signature of Agent

Contractor

By: _____
Signature

Printed Name of Agent

Title

Company Name

SURETY:

Surety Company

Company Address

By: _____
Signature Attorney-in-Fact Officer

City, State, Zip Code

Printed Name of Attorney-in-Fact Officer

Company Telephone Number

Company Name

FORM APPROVED BY:

Company Address

City, State, Zip Code

Attorney for Jurisdiction

Company Telephone Number

NOTE:

1. All signatures on this Bond must be original signatures in ink; copies, facsimile, or electronic signatures will not be accepted.
2. This Bond must be sealed with the Surety's raised, embossing seal.
3. The Certificate or Power of Attorney accompanying this Bond must be valid on its face and sealed with the Surety's raised, embossing seal.

The name and signature of the Surety's Attorney-in-Fact/Officer entered on this Bond must be exactly as listed on the Certificate or Power of Attorney accompanying this Bond.

**BOND FORMS FOR
PRAIRIE HILLS COUNTY HOME DEMOLITION
1600 COUNTY HOME ROAD
SERGENT BLUFF, IA 51054**

KNOW ALL BY THESE PRESENTS:

That we, D.W. Zinser Company as
Principal, and Swiss Re Corporate Solutions America Insurance Corporation, as Surety, are
held and firmly bound unto Woodbury County, Iowa, as Obligee (hereinafter referred to as the
"Jurisdiction"), in the penal sum of
----- dollars
(\$-----), or 5 % of the amount bid in lawful money of the United
States, for which payment said Principal and Surety bind themselves, their heirs, executors,
administrators, successors, and assigns jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the
Jurisdiction a certain proposal, in a separate envelope, and hereby made a part hereof, to enter into
a contract in writing, for the following described improvements;

The work includes demolition of the former County Home building and additions located at 1600 County Home Road, Sergeant Bluff, Iowa 51504. The property includes a 3-story building with a base area of 9,220 square feet (sf); a 12,472-sf base area addition, a 1,600-sf base area addition, a 640-sf base area addition, and two 40-sf base area additions. All buildings, with the exception of the 12,472-sf base area addition (1975), were constructed in 1921. The 9,200-sf building and 1,600-sf addition each have a gable roof covered by shingles. All other structures have a built-up, flat roof. All structures are brick. Demolition includes removal of foundation footings, basement slabs, and any tunnels or crawl spaces. The work includes removal and disposal of Asbestos Containing Materials (ACMs), hazardous and non-hazardous materials, designated structures, and one underground storage tank on the property. Specifications for asbestos removal includes both friable and non-friable ACMs. All ACMs removed from the Property must be disposed of at a permitted facility that accepts asbestos. All materials removed from the property shall be done in accordance with local, state, and federal regulations. The work also includes backfilling of all existing tunnels, basements, etc... associated with the demolition and rough site grading.

The Surety hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Jurisdiction may accept such bid or execute such Contract; and said Surety does hereby waive notice of any such extension.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Woodbury County, State of Iowa. If legal action is required by the Jurisdiction against the Surety or Principal to enforce the provisions of the bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Surety or Principal agrees to pay the Jurisdiction all damages, costs, and attorney fees incurred by enforcing any of the provisions of this Bond. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers and remedies given to the Jurisdiction,

by law. The Jurisdiction may proceed against Surety for any amount guaranteed hereunder whether action is brought against Principal or whether Principal is joined in any such action or actions or not.

NOW, THEREFORE, if said proposal by the Principal be accepted, and the Principal shall enter into a contract with the Jurisdiction in accordance with the terms of such proposal, including the provision of insurance and of a bond as may be specified in the contract documents, with good and sufficient surety for the faithful performance of such contract, for the prompt payment of labor and material furnished in the prosecution thereof, and for the maintenance of said improvements as may be required therein, then this obligation shall become null and void; otherwise, the Principal shall pay to the Jurisdiction the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

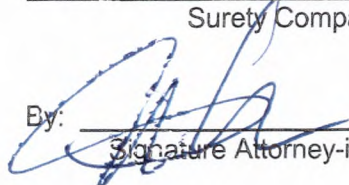
Signed and sealed this 20th day of July 2022.


Surety:

PRINCIPAL:

Swiss Re Corporate Solutions America Insurance Corporation
Surety Company

D.W. Zinser Company
Bidder

By: 
Signature Attorney-in-Fact/Officer

By: 
Signature

Anne Crowner, Attorney-in-Fact
Printed Name of Attorney-in-Fact/Officer

Brent Tesels
Printed Name

Holmes, Murphy and Associates, LLC
Company Name

CFO
Title

2727 Grand Prairie Parkway
Company Address

P.O. Box 398
Address

Waukee, IA 50263
City, State, Zip Code

Walford, IA 52351
City, State, Zip Code

(515) 223-6800
Company Telephone Number

(319) 846-8090
Telephone Number

NOTE:

1. All signatures on this Bond must be original signatures in ink; copies, facsimile, or electronic signatures will not be accepted.
2. This Bond must be sealed with the Surety's raised, embossing seal.
3. The Certificate or Power of Attorney accompanying this Bond must be valid on its face and sealed with the Surety's raised, embossing seal.

The name and signature of the Surety's Attorney-in-Fact/Officer entered on this Bond must be exactly as listed on the Certificate or Power of Attorney accompanying this Bond.

SWISS RE CORPORATE SOLUTIONS

SWISS RE CORPORATE SOLUTIONS AMERICA INSURANCE CORPORATION F/K/A NORTH AMERICAN SPECIALTY INSURANCE COMPANY ("SRCSAIC")
SWISS RE CORPORATE SOLUTIONS PREMIER INSURANCE CORPORATION F/K/A WASHINGTON INTERNATIONAL INSURANCE COMPANY ("SRCSPIC")
WESTPORT INSURANCE CORPORATION ("WIC")

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT SRCSAIC, a corporation duly organized and existing under laws of the State of Missouri, and having its principal office in the City of Kansas City, Missouri, and SRCSPIC, a corporation organized and existing under the laws of the State of Missouri and having its principal office in the City of Kansas City, Missouri, and WIC, organized under the laws of the State of Missouri, and having its principal office in the City of Kansas City, Missouri, each does hereby make, constitute and appoint:

JAY D. FREIERMUTH, CRAIG E. HANSEN, BRIAN M. DEIMERLY, CINDY BENNETT, ANNE CROWNER, TIM McCULLOH, STACY VENN,
DIONE R. YOUNG, STACIE CHRISTENSEN, SETH ROOKER, JENNIFER MARINO AND JOSEPH TIERNAN

JOINTLY or SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:

ONE HUNDRED TWENTY-FIVE MILLION (\$125,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both SRCSAIC and SRCSPIC at meetings duly called and held on the 18th of November 2021 and WIC by written consent of its Executive Committee dated July 18, 2011.

"RESOLVED, that any two of the President, any Managing Director, any Senior Vice President, any Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is, authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Corporation bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Corporation; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Corporation may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Corporation when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached."



By Erik Janssens, Senior Vice President of SRCSAIC & Senior Vice President of SRCSPIC & Senior Vice President of WIC

[Signature of Erik Janssens]

By Gerald Jagrowski, Vice President of SRCSAIC & Vice President of SRCSPIC & Vice President of WIC

[Signature of Gerald Jagrowski]



IN WITNESS WHEREOF, SRCSAIC, SRCSPIC, and WIC have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers

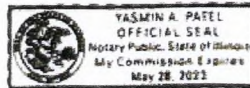
this 29TH day of APRIL, 2022

State of Illinois
County of Cook

SS

Swiss Re Corporate Solutions America Insurance Corporation
Swiss Re Corporate Solutions Premier Insurance Corporation
Westport Insurance Corporation

On this 29TH day of APRIL, 2022, before me, a Notary Public personally appeared Erik Janssens, Senior Vice President of SRCSAIC and Senior Vice President of SRCSPIC and Senior Vice President of WIC and Gerald Jagrowski, Vice President of SRCSAIC and Vice President of SRCSPIC and Vice President of WIC, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.



[Signature of Yasmin A. Patel]

Yasmin A. Patel, Notary

I, Jeffrey Goldberg, the duly elected Senior Vice President and Assistant Secretary of SRCSAIC and SRCSPIC and WIC, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said SRCSAIC and SRCSPIC and WIC, which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 20th day of July, 2022.

[Signature of Jeffrey Goldberg]
Jeffrey Goldberg, Senior Vice President & Assistant Secretary of SRCSAIC and SRCSPIC and WIC

SECTION 00 73 19
HEALTH AND SAFETY REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
1. Health and Safety requirements.

1.02 MEASUREMENT AND PAYMENT

- A. Work specified in this section is included in the lump sum contract price.

1.03 DESCRIPTION

- A. Contractor is responsible for implementation and enforcement of safe work practices including, but not limited to, personnel exposure to refuse, hazardous materials; use of trenching, sheeting, and shoring; scaffolding; materials handling; operation of equipment; and safety of public during progress of work.

1.04 QUALITY ASSURANCE

- A. Regulatory Requirements:
1. Contractor shall plan for and ensure personnel comply with basic provisions of OSHA Safety and Health Standards (29 CFR 1910), and General Construction Standards (29 CFR 1926) as appropriate.
 2. Comply with applicable laws and regulations of any public body having jurisdiction for safety of persons or property.

1.05 OPERATIONS AND EQUIPMENT SAFETY

- A. Contractor is responsible for initiating, maintaining, and supervising safety precautions and programs in connection with work. Contractor shall take necessary precautions for safety of employees on Project site and other persons and organizations who may be affected by Project.
- B. Contractor's duties and responsibilities for safety in connection with work shall continue until such time as work is complete as applicable under the Contract.

1.06 HEALTH AND SAFETY

- A. Contractor is responsible for implementation and enforcement of health and safety requirements, as well as compliance with all applicable state and federal laws, and will take necessary precautions and provide protection for following.
1. Personnel working on or visiting Project site, irrespective of employer.
 2. Work and materials or equipment to be incorporated in work area on- or off-site.
 3. Other property at or adjacent to Project site.
 4. Public exposed to job related operations or potential release of toxic or hazardous materials.
- B. Contractor shall prepare site-specific health and safety plan (HASP) following the

requirements of 29-CFR 1910.120, and 29-CFR 1910.146. Such plan shall include appropriate measures for confined space entry as project conditions warrant. If Contractor does not have capability to prepare HASP, Contractor shall employ consultants with appropriate capabilities. Contractor is solely responsible for adequacy of HASP's preparation, monitoring, management, and enforcement. At minimum, Contractor's HASP shall address following.

1. Site description and history.
2. Project activities, including coordination with other Contractors.
3. Hazard evaluation.
4. On-site safety responsibilities.
5. Work zones.
6. Personnel training.
7. Medical monitoring.
8. Atmospheric monitoring.
9. Personal protection, clothing, and equipment.
10. Decontamination procedures.
11. Emergency procedures.

1.07 CONSULTANT'S RESPONSIBILITIES

- A. When Consultant is required to be present on Project site to perform consulting services, Consultant will comply with Contractor's safety plans, programs, and procedures.
- B. If Consultant determines Contractor's safety plans, programs, and procedures do not provide adequate protection for Consultant, Consultant may direct its employees to leave Project site or implement additional safeguards for Consultant's employees. If taken, these actions will be in furtherance of Consultant's responsibility to its own employees only, and Consultant will not assume responsibility for protection of any other persons affected by work.
- C. If Consultant observes situations which appear to have potential for immediate and serious injury to persons, Consultant may warn persons who appear to be affected by such situations and shall advise Contractor and COUNTY of its actions. Such warnings, if issued, shall be given based on general humanitarian concerns, and Consultant will not, by issuance of any such warning, assume responsibility to issue future warnings or any general responsibility for protection of persons affected by work.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

(Not Used)

END OF SECTION

**SECTION 01 00 00
GENERAL REQUIREMENTS**

**PRAIRIE HILLS COUNTY HOME DEMOLITION
1600 COUNTY HOME ROAD
SERGENT BLUFF, IA 51054**

1. DEFINITION AND INTENT
2. GENERAL PROVISIONS AND COVENANTS
3. WORK REQUIRED
4. SALVAGE OF MATERIALS AND EQUIPMENT
5. PLANS AND SPECIFICATIONS
6. CONSTRUCTION FACILITIES
7. SUBMITTALS
8. STANDARDS AND CODES
9. DEFINITIONS
10. RIGHT-OF-WAYS
11. EMPLOYMENT PRACTICES
12. WORK HOURS
13. DUST ABATEMENT
14. QUANTITIES
15. MAINTENANCE BOND AND WARRANTY PERIODS (if required)
16. MEASUREMENT AND PAYMENT
17. INSURANCE REQUIREMENTS
18. INCIDENTAL CONTRACT ITEMS
19. EXISTING UTILITIES
20. PROJECT SUPERVISION
21. COORDINATION WITH OTHERS
22. CONSTRUCTION LIMITS
23. CONSTRUCTION SCHEDULE
24. DISPOSAL
25. TEMPORARY FENCES
26. RESPONSIBILITY OF CONTRACTOR

1. DEFINITION AND INTENT

- A. The Technical Specifications that apply to the materials and construction practices for this project are defined as follows:
1. Omissions of words or phrases such as "the Contractor shall", "in accordance with", "shall be", "as noted on the Plans", "according to the Plans", "a", "an", "the" and "all" are unintentional; supply omitted words or phrases by inference.
 2. "COUNTY", and shall mean Woodbury County (COUNTY), or contracting agent.
 3. "Person" shall mean any individual, partnership, limited partnership, joint venture, society, association, joint stock company, corporation, limited liability company, estate, receiver, trustee, assignee, or referee, whether appointed by a court or otherwise, and any combination of individuals.
 4. "Consultant" shall mean COUNTY or designated agent.
 5. The intent of the Technical Specifications is to describe the construction desired, performance requirements, and standards of materials and construction.
 6. "Work" shall mean the work to be done and the equipment, supplies, and materials to be furnished under the contract unless some other meaning is indicated by the context.
 7. "Or equal" shall follow manufacturers names used to establish standards and, if not stated, is implied.
- B. Consultant: Impact7G, Inc., 8951 Windsor Parkway, Johnston, IA 50131, (515) 473-6256, fax (515) 528-8005.

2. GENERAL PROVISIONS AND COVENANTS

- A. Procedures outlined herein are not intended to fully cover all special construction procedures but are offered as an aid to the Contractor in planning work.
- B. Cooperate with the COUNTY to minimize inconvenience to property owners, other jurisdictions and motorists and to prevent delays in construction and interruption to continuous operation of utility services and site access.
- C. The Contractor is expected to provide adequate personnel and equipment to perform work within specified time of construction.
- D. Install and maintain a six-foot temporary chain-link safety fence around the demolition site and maintain it for the duration of the demolition work and until the site has been backfilled.

3. WORK REQUIRED

- A. Work under this contract includes all materials, equipment, transportation, labor, disposal and associated work for the asbestos abatement project.
- B. This project consists of one contract for all Work described.

4. SALVAGE OF MATERIALS AND EQUIPMENT

- A. The Owner retains first right of refusal for retaining any existing materials removed by the construction.
- B. The Contractor shall carefully remove, in a manner to prevent damage, all materials and equipment specified or indicated as salvage. The Contractor shall protect and store items specified.

- C. Any items damaged in removal, storage, or handling through carelessness or improper procedures shall be replaced by the Contractor in kind with new items.
5. PLANS AND SPECIFICATIONS
- A. Upon request, the Consultant will furnish 5 sets of the Project Manual to the Contractor after award of the contract.
6. CONSTRUCTION FACILITIES
- A. Provide telephone numbers where Contractor's representative can be reached during workdays and on nights and weekends in event of emergency.
 - B. Provide and maintain suitable sanitary facilities for construction personnel for duration of Work; remove upon completion of Work.
 - C. Do not store construction equipment, employee's vehicles, or materials on streets open to traffic. Location for storage of equipment by Contractors is subject to approval of COUNTY.
 - D. The contractor shall provide suitable storage facilities necessary for proper storage of materials and equipment.
 - E. The Contractor will be required to make arrangements for all services required during the construction period and pay for such services at no additional cost to the COUNTY.
7. SUBMITTALS
- A. Provide construction schedule showing dates of starting and completing various portions of Work.
 - B. Include all other submittals:
 - 1. Copy of 10-day notification
 - 2. Waste Manifests (no later than one (1) week after completion date)
 - 3. Certificate of Insurance
 - 4. Payment and Performance Bond
8. STANDARDS AND CODES
- A. Construct improvements with best present-day construction practices and equipment.
 - B. Conform with and test in accordance with applicable sections of the following standards and codes.
 - 1. Title 29 Code of Federal Regulations Section 1910.1001, General Industry Standard for Asbestos.
 - 2. Title 29 Code of Federal Regulations Section 1926.1101, Construction Industry Standard for Asbestos.
 - 3. Title 29 Code of Federal Regulations Section 1910.134, General Industry Standard for Respiratory Protection.
 - 4. Title 29 Code of Federal Regulations Section 1910.2, Access to Employee Exposure and Medical Records.
 - 5. Title 29 Code of Federal Regulations Section 1910.1200, Hazard Communication Rule.

6. Title 40 Code of Federal Regulations Part 61 Subpart A and Subpart M (revised Subpart B), National Emissions Standard for Hazardous Air Pollutants.
 7. Iowa Administrative Code Section 875 Chapter 155, Asbestos Removal & Encapsulation.
 8. Title 49 Code of Federal Regulations Part 171 - 180, Department of Transportation, Transportation of Hazardous Waste.
- C. The following standards, regulations, codes and other applicable documents are additional requirements of asbestos abatement projects.
1. E.P.A. Guidance Document: Asbestos Waste Management Guidance (Blue Book).
- D. The most recent edition of any relevant regulation, standard, document or code shall be in effect. Where conflict among the requirements or with these Specifications exists, the most stringent requirements shall be utilized.
9. DEFINITIONS

ABATEMENT: Procedures to control fiber release from asbestos containing materials. Includes removal, encapsulation, enclosure, and repair.

ACBM: Asbestos Containing Building Material.

ACM: Asbestos Containing Material

ACCREDITED: Refers to a person or laboratory means that such person or laboratory is accredited in accordance with section 206 of Title II of the Toxic Substance Control Act.

ADDENDA: are written or graphic instruments issued by the COUNTY prior to the execution of the Contract which modify or interpret the Bidding Documents by addition, deletions, clarifications or corrections.

ACGIH: American Conference of Governmental Industrial Hygienists, 6500 Glenway Avenue, Building D-5, Cincinnati, OH 45211.

AGGRESSIVE METHOD: Removal or disturbance of building material by sanding, abrading, grinding, or other method that breaks, crumbles, or disintegrates intact ACM.

AHERA: Asbestos Hazard Emergency Response Act.

AIHA: American Industrial Hygiene Association, 475 Wolf Ledges Parkway, Akron, OH 44311.

AIR LOCK: A system for permitting passage with minimal air movement between a contaminated and an uncontaminated area.

ALTERNATE BID: (or alternate) is an amount stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the alternate bid.

AMENDED WATER: Water to which a surfactant has been added.

ANSI: American National Standards Institute, 1430 Broadway, New York, NY 10018.

ASBESTOS CONTAINING WASTE MATERIAL: Asbestos containing material or

asbestos contaminated objects requiring disposal.

ASTM: American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

AUTHORIZED VISITOR: The COUNTY (and any designated representatives) and any representatives of a regulatory or other agency having jurisdiction over the project.

BASE BID: is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base bid.

BID: is a complete and properly signed proposal to do the Work or designated portion thereof for the sums stipulated therein, submitted in accordance with the Bidding Documents.

BIDDER: A person or entity who submits a bid.

BIDDING DOCUMENTS: Include the Instructions to Bidders, the bid form, other sample bidding and contract forms, and the proposed Contract Documents including Addenda issued prior to receipt of bids.

BRAND METHOD: A differential pressure containment system that does not infringe on the patent rights of GPAC, Inc's Reduced Pressurization and Filtration System.

BUILDING OWNER: COUNTY, or an authorized representative

CEILING CONCENTRATION: The concentration of an airborne substance that shall not be exceeded.

CLASS I ASBESTOS WORK: Activities involving the removal of TSI and Surfacing ACM and PACM.

CLASS II ASBESTOS WORK: Activities involving the removal of ACM which is not TSI or surfacing material. This includes, but is not limited to, the removal of asbestos containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics.

CLASS III ASBESTOS WORK: Repair and maintenance operations, where ACM, including TSI and surfacing material is likely to be disturbed.

CLASS IV ASBESTOS WORK: Maintenance and custodial activities during which employees contact ACM and PACM, and activities to clean up waste and debris containing ACM and PACM.

CLEAN ROOM: An uncontaminated area which is a part of the worker decontamination containment system with provisions for storage of workers' street clothes and clean protective equipment.

COMPETENT PERSON: One who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them. In addition, for Class I and Class II work who is specially trained in a training course which meet the criteria of EPA's Model Accreditation Plan for project designer or supervisor, or its

equivalent and, for Class III and Class IV work, who is trained in an Operations & Maintenance (O&M) course developed by EPA.

CONSULTANT: Impact7G, Inc., 8951 Windsor Parkway, Johnston, Iowa 50131.

CONTRACTOR: The individual and/or business with the COUNTY arranges to perform the asbestos abatement and demolition.

CURTAINED DOORWAY: A device to allow passage from one room to another while permitting minimal air movement between the rooms, by placing two overlapping sheets of plastic in doorway with both secured at top and opposite vertical edges. This doorway is to be used only by GPAC, Inc. approved licensees.

DECONTAMINATION CONTAINMENT SYSTEM: A series of connected rooms separated from the Work area and from each other by airlocks, for the decontamination of workers and equipment.

DEMOLITION: The wrecking or taking out of any building component, system, finish or assembly of a facility together with any related handling operations.

DISTURBANCE: Contact which releases fibers from ACM or PACM or debris containing ACM or PACM. This term includes activities that disrupt the matrix of ACM or PACM, render ACM or PACM friable, or generate visible debris. Disturbance includes cutting away small amounts of ACM or PACM, no greater than the amount which can be contained in one standard sized glove bag or waste bag in order to access a building component. In no event shall the amount of ACM or PACM so disturbed exceed that which can be contained on one glove bag or waste bag which shall not exceed 60 inches in length and width.

ENCAPSULANT: A material that surrounds or embeds asbestos fibers in an adhesive matrix, to prevent release of fibers.

BRIDGING ENCAPSULANT: an encapsulant that forms a discrete layer on the surface of an in situ asbestos matrix.

PENETRATING ENCAPSULANT: an encapsulant that is absorbed by the in situ asbestos matrix without leaving a discrete surface layer.

ENCLOSURE: An airtight, impermeable barrier made of enclosure material to control release of asbestos fibers from contaminated building surfaces.

ENCLOSURE MATERIAL: Polyethylene sheeting or spray applied water-based strippable coating.

EQUIPMENT ROOM: A contaminated area which is part of the worker decontamination containment system with provisions for storage of contaminated clothing and equipment.

EPA: U.S. Environmental Protection Agency, 401 M Street S.W., Washington, D.C. 20460.

FRIABLE ASBESTOS: Asbestos containing material which can be crumbled to dust (when dry) under hand pressure.

HVAC: Heating, ventilation and air conditioning system.

HEPA FILTER: A High Efficiency Particulate Air filter capable of removing particles .3 microns in diameter with 99.97% efficiency.

HEPA VACUUM: A vacuum system equipped with HEPA filtration.

HOMOGENEOUS AREA: An area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture.

LEAD-BASED PAINT: Any paint or surface coating that contains lead equal to or exceeding one milligram per square centimeter (1.0 mg/cm²) or 0.5% by weight.

NEGATIVE EXPOSURE ASSESSMENT: A demonstration by the employer, that the employee exposure during an operation is expected to be consistently below the PEL's.

NESHAP: The National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61).

NIOSH: The National Institute for Occupational Safety and Health, CDC-NIOSH, Building J. N.E. Room 3007, Atlanta, GA 30033.

NIST: National Institute of Standards and Technology.

NPE: Negative Pressure Enclosure

OSHA: The Occupational Safety and Health Administration, 200 Constitution Avenue, Washington, D.C. 20210.

OWNER'S REPRESENTATIVE: Impact7G, Inc., 8951 Windsor Parkway, Johnston, IA 50131.

PACM: Presumed asbestos containing material.

PAT PROGRAM: Proficiency Analytical Testing Program.

PEL: Permissible Exposure Limit, for asbestos currently 0.1 f/cc for an 8-hour TWA.

PROTECTION FACTOR: The ratio of the ambient concentration of an airborne substance to the concentration of the substance inside the respirator at the breathing zone of the wearer. The protection factor is a measure of the degree of protection provided by a respirator to the wearer.

REMOVAL: The stripping of any asbestos containing material from surfaces or components of a facility.

REPAIR: Overhauling, rebuilding, reconstructing, or reconditioning of structures or substrates, including encapsulation or other repair of ACM or PACM attached to structures or substrates.

SHOWER ROOM: A room between the clean room and the equipment room in the worker decontamination containment with hot and cold or warm running water controllable at the top and suitably arranged for complete showering during decontamination.

STAGING AREA: Either the holding area or some area near the waste transfer airlock where containerized asbestos waste has been placed prior to removal from the Work area.

STRIP: To take off friable asbestos materials from any part of the facility.

SURFACTANT: A chemical wetting agent added to water to improve penetration.

TEM: Transmission electron microscope.

TIME WEIGHTED AVERAGE (TWA): The average concentration of a contaminant in air during a specific time period.

TSI: Thermal System Insulation.

UNIT PRICE: is an amount stated in the Bid as a price per unit of measurement for materials or services as described in the Bidding Documents or in the proposed Contract Documents.

VISIBLE EMISSIONS: Any emissions containing particulate asbestos material that are visually detectable without the aid of instruments. This does not include condensed, uncombined water vapor.

WASTE GENERATOR: The individual and/or business who performs the asbestos abatement.

WASTE TRANSFER AIRLOCK: A decontamination system utilized for transferring containerized waste from inside to outside of the Work area.

WET CLEANING: The process of eliminating asbestos contamination from building surfaces and objects by using cloth, mops, or other cleaning utensils which have been dampened with water and afterwards thoroughly decontaminated or disposed of as asbestos contaminated waste.

WORK AREA: Designated rooms, spaces, or areas of project in which asbestos abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained Work area is a Work area which has been sealed, plasticized, and equipped with a decontamination containment system. A non-contained Work area is an isolated or controlled-access Work area which has not been plasticized nor equipped with a decontamination containment system.

10. RIGHT-OF-WAYS

A. None of the Work on this project will be within County Right-of-Way or Easements, though the work will be completed on County-owned property.

11. EMPLOYMENT PRACTICES

A. Neither the Contractor nor the Contractor's Subcontractors shall employ any person whose physical or mental condition is such that this employment will endanger the health and safety of anyone employed on the Project.

B. The Contractor shall not commit any of the following employment practices and agrees to include the following clauses in any Subcontracts:

1. To discharge from employment or refuse to hire any individual because of sex, race, color, religion, national origin, sexual orientation, marital status, age, or

disability unless such disability is related to job performance of such person or employee.

2. To discriminate against any individual in terms, conditions, or privileges or employment because of sex, race, color, creed, religion, national origin, sexual orientation, gender identify, age, or disability unless such disability is related to job performance of such person or employee.

12. WORK HOURS

- A. There are no limits to the Contractor's Work hours.

13. DUST ABATEMENT

- A. The Contractor shall make all reasonable efforts to control dust and assure dust does not become a problem. Anytime ACM debris is disturbed, Contractor is required, at a minimum, to mist the area to minimize airborne fibers and ensure no visible emissions. The Consultant reserves the right to stop Contractor's operations whenever dust becomes a problem on the project and direct the Contractor to submit a revised operations plan to solve the dust problem.

14. QUANTITIES

- A. The Contractor is to realize some of the quantities on this Project are best estimates and may vary from actual conditions at time of construction of the Project. Quantities must be regarded as approximate only, and are given as a guide to the Bidder and for comparison of Bids. The COUNTY reserves the right to increase or decrease these quantities as designated in the Contract, and the Contractor will be paid for only as much Work as the Contractor is required to do by the COUNTY at the unit prices stated in the Proposal.

15. MAINTENANCE BOND AND WARRANTY PERIODS (IF REQUIRED)

- A. The requirements of the Payment, Performance and Maintenance Bond warranty period are modified as follows:
 1. To remedy any and all defects that may develop in or result from Work to be performed under the Contract within two years from the date of acceptance of the Work under the Contract, by reason of defects in workmanship or materials used in construction of said work.

16. MEASUREMENT AND PAYMENT

- A. Contract unit or lump sum prices are full compensation for furnishing all materials, equipment, tools, transportation, and labor necessary to construct and complete each item of Work as specified. No separate payment will be made for Work included in this project except as set forth in the bid item reference notes. Refer to the C sheets for bid items reference notes. All other items of Work are incidental to construction. All additional Work must be in writing as a detailed change order signed by the COUNTY.

17. INSURANCE REQUIREMENTS

- A. The Contractor shall purchase and maintain insurance to protect the Contractor and the Jurisdiction against all hazards herein enumerated throughout the duration of the contract. Said insurance shall be provided by an insurance company or companies, "admitted" or "non-admitted" to do business in the State of Iowa, having an A.M. Best rating of no less than "B+."

- B. Except for workers compensation insurance, the Contractor shall purchase and maintain such insurance as will protect the Contractor and the Jurisdiction as set forth below, which may arise out of or result from the Contractor's operations under the contract, whether such operations be by the Contractor, its subcontractors or consultants, suppliers, third parties, or the agents, officers, or employees of any of them. In addition, the Contractor shall purchase and maintain workers compensation insurance to cover its employees.

The limits shall be not less than the following amounts or greater where required by Laws and Regulations:

Commercial General Liability	
General Aggregate Limit	\$500,000
Products – Completed Aggregate	\$500,000
Personal and Advertising Injury	\$1,000,000
Each Occurrence	\$1,000,000
Workers Compensation	
Bodily Injury by Accident	\$1,000,000 (each accident)
Bodily Injury by Disease	\$1,000,000 (each accident)
Bodily Injury by Disease	\$1,000,000 (policy limit)
Automobile Liability	
Bodily Injury	\$300,000 (each person)
Bodily Injury	\$300,000 (each accident)
Property Damage	\$300,000 (each accident)
Excess or Umbrella Liability	
Each Occurrence	\$2,000,000
Aggregate	\$2,000,000

18. INCIDENTAL CONTRACT ITEMS

- A. The following list includes, but is not limited to, major items that are incidental to the project and will not be paid for as separate bid items. Other items may be designated as incidental under certain bid items.
- Capping any utilities
 - Connections to existing storm sewer structures and pipes unless specified for separate payment
 - Construction and removal of temporary access roads
 - Construction fencing
 - Construction staging & phasing
 - Coordination and cooperation with affected property owners
 - Coordination and cooperation with the COUNTY
 - Coordination and cooperation with other Contractors
 - Coordination and cooperation with other projects in the area
 - Coordination and cooperation with utility companies
 - Dewatering and handling storm water flow during construction
 - Dust control measures
 - Excavation, verification and protection of existing utilities
 - Field and wood fence removal

- Maintenance and watering for seeding and sodding
- Maintenance of erosion control measures
- Monitoring weather conditions
- Protection of existing hydrant(s) and valve(s)
- Protection of existing trees and plantings not shown as removals
- Protection of existing utilities and light poles
- Protection of historical and existing building elements to be left in place or removed under a separate contract.
- Removing and reinstalling existing signs
- Removal means and methods of hazardous materials (including slow unmanned elevator operations)
- Reseeding
- Site cleanup/restoration
- Temporary safety closures
- Temporary street closure

19. EXISTING UTILITIES

- A. Any location of utility lines, mains, cables and appurtenances shown on plans are from information provided by utility companies and the COUNTY.
- B. Prior to construction, contact all utility companies and have all utility lines and services located. The Contractor is responsible for exposing utilities in order to confirm their locations ahead of the Work.
- C. Contractor is solely responsible for damage to utilities or private or public property due to utility disruption.
- D. The Contractor shall notify utility company immediately if utility infrastructure is damaged during construction.
- E. Contractor will contact and work with utility companies to relocate utility infrastructure in direct conflict with line and grade of the work during construction. Support and protect all utilities that are not moved.
- F. Utility services are not generally shown on plans; protect and maintain services during construction. Notify COUNTY and Consultant 48 hours prior to any planned utility service interruptions.
- G. COUNTY must be notified 48-hours prior to any disruption of electrical utilities.
- H. If utility Work does occur during the construction period, Work schedules from the contractor and from the utility companies will be submitted to the Consultant for coordination to obtain mutual acceptable schedules, if possible.
- I. No claims for additional compensation or time extension will be allowed to the Contractor for interference or delay caused by utility companies.
- J. Actual locations of capped/stopped utilities must be surveyed and documented on Record Drawings/As-Builts.

20. PROJECT SUPERVISION

- A. The Contractor shall be represented in person at the construction site at all times that construction operations are proceeding by a qualified superintendent or other designated, qualified representative capable of providing adequate supervision. The

superintendent or representative must be duly authorized to receive and execute instructions, notices and written orders from the COUNTY.

- B. Issues that arise during construction relating to traffic control and construction staging, etc. are the responsibility of the Contractor.
- C. Bi-weekly progress meetings, if specified at the preconstruction meeting, with the Contractor and Consultant will be held at the project site to review the updated project schedule and progress, coordinate activities, resolve conflicts and coordinate the construction Work. The day and time for this meeting will be set at the preconstruction meeting.

21. COORDINATION WITH OTHERS

- A. Cooperate and coordinate construction with Construction Manager, Consultant, utility companies, affected property Jurisdictions and other contractors working in vicinity of this project.
- B. It is the Contractor's responsibility to schedule and coordinate Work to minimize construction delays and conflicts.
- C. Coordinate with property owners prior to beginning Work that will affect their parcel.

22. CONSTRUCTION LIMITS

- A. Confine the construction operations within the construction limits shown on the plans.
- B. Do not store equipment, vehicles or materials within the right-of-way of any streets open to traffic or on temporary access roads at any time.
- C. Areas disturbed outside of construction limits shall be restored at the contractor's expense to the satisfaction of the COUNTY. Contractor shall protect trees, fences, and landscaping within the construction limits not marked as remove.
- D. Contractor shall park all vehicle, trailers and storage containers in designated areas only during the project.

23. CONSTRUCTION SCHEDULE

- A. The Contractor will prepare and submit to the Consultant for approval a project schedule that will assure the completion of the project within the time specified.
- B. Adequate equipment and forces shall be made available by the Contractor to start Work immediately upon receipt of the Notice to Proceed
- C. Submit construction schedule at the preconstruction meeting and periodically update it as requested by the Consultant.
- D. The Contractor shall be required to meet the final completion date as specified in the written Notice to Proceed.
- E. Notify the COUNTY and property owners at least 48 hours prior to any street closures.
 - 1. Notify all property owners, residential and business, affected by the street closures by written notice placed on the front door. Include the following items in the notice:
 - a. The street name, location and proposed date of street closure
 - b. The estimated schedule for completion of Work
 - c. The estimated date for reopening of the street

d. Procedure for garbage collection, recycling and postal service

24. DISPOSAL

- A. Dispose of materials in accordance with applicable laws and ordinances.
 - 1. Burning of brush and other debris is permitted on-site but must comply with local codes and fire preventions.
 - 2. Dispose of broken concrete, asphalt, granular material, rubble, excess or unsuitable excavated material. Contractor is responsible for selecting disposal site.
 - 3. Cooperate with all applicable county, state and federal agencies concerning disposal of materials.
 - 4. The COUNTY has the first right to any excess materials from construction.

25. TEMPORARY FENCES

- A. Contractor to provide temporary fences and barriers as required by OSHA.

26. RESPONSIBILITY OF CONTRACTOR

- A. Supervision of the Work.
- B. Protection of all property from injury or loss resulting from construction operations.
- C. Replace or repair objects sustaining any such damage, injury or loss to satisfaction of COUNTY or Consultant.
- D. Cooperate with COUNTY, Consultant, and representatives of utilities in locating underground utility lines and structures. Incorrect, inaccurate or inadequate information concerning location of utilities or structures shall not relieve the Contractor of responsibility for damage thereto caused by construction operations. Contractor shall field verify all utility locations.
- E. Keep cleanup current with construction operations.
- F. Comply with all federal, State of Iowa, and the Woodbury County, Iowa laws and ordinances.

END OF SECTION

SECTION 01 10 00

SUMMARY

PART 1 GENERAL

1.01 PROJECT DESCRIPTION

- A. Project: Prairie Hills County Home Demolition
1600 County Home Road
Sergeant Bluff, IA 51054
- B. COUNTY: Woodbury County
Address: 401 8th Street
Contact: Kenny Schmitz
Phone: 712-279-6539
Email: kschmitz@woodburycountyiowa.gov
Consultant: Impact7G, Inc.
Contact: Jon Reis
Address: 8951 Windsor Parkway, Johnston, IA 50131
Phone: 515-473-6256
Email: jreis@impact7g.com
- C. The Work includes demolition of the former County Home building and additions located at 1600 County Home Road, Sergeant Bluff, Iowa 51504. The property includes a 3-story building with a base area of 9,220 square feet (sf); a 12,472-sf base area addition, a 1,600-sf base area addition, a 640-sf base area addition, and two 40-sf base area additions. All buildings, with the exception of the 12,472-sf base area addition (1975), were constructed in 1921. The 9,200-sf building and 1,600-sf addition each have a gable roof covered by shingles. All other structures have a built-up, flat roof. All structures are brick. Demolition includes removal of foundation footings, basement slabs, and any tunnels or crawl spaces. The work includes removal and disposal of Asbestos Containing Materials (ACMs), hazardous and non-hazardous materials, designated structures, and one underground storage tank on the property. Specifications for asbestos removal includes both friable and non-friable ACMs. All ACMs removed from the Property must be disposed of at a permitted facility that accepts asbestos. All materials removed from the property shall be done in accordance with local, state, and federal regulations. The work also includes backfilling of all existing tunnels, basements, etc... associated with the demolition and rough site grading.

1.02 CONTRACTS

- A. Perform Work under a lump sum cost contract with the COUNTY. Contractor may subcontract a portion or portions of Work as provided in these specifications to fulfill the terms of the Contract. Under no circumstances does the subcontracted Work relieve the Contractor from fulfilling the terms of the Contract.

1.03 COMMENCEMENT OF THE WORK

- A. The Contractor shall not commence Work nor allow Subcontractors or Sub-subcontractors to commence Work until:
1. The Agreement has been fully executed.

2. The COUNTY has approved the Contractor's Performance and Maintenance and Payment Bonds, if required.
3. The COUNTY has approved evidence of the Contractor's Liability Insurance and other insurance required to be purchased by the Contractor. A complete description of the policy is required in addition to the COUNTY being listed as an additional insured. COUNTY'S Hold Harmless Agreement must be executed prior to contract execution.
4. The COUNTY has issued a Notice to Proceed.
5. The COUNTY has the right to postpone demolition or delay the construction schedule as it relates to the demolition.

1.04 COMPLETION TIME

- A. Work under the proposed Contract Documents shall commence immediately after receipt of the Notice to Proceed and shall be completed and ready for use or operation, subject to any extension of time which may be granted by the COUNTY, as defined in the Contract as completed by November 4, 2022 (105 days after notice to proceed).

1.05 OWNER OCCUPANCY

- A. The COUNTY shall have the right to take possession of and use any completed or partially completed portions of the building upon completion of air testing.

1.06 CONTRACTOR USE OF SITE AND PREMISES

- A. General: Contractor shall have full use of premises for construction operations, including use of Project site, during construction period. Contractor's use of premises is limited only by COUNTY'S right to perform Work or to retain other contractors on portions of Project.
- B. Use of Site: Limit use of premises to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 1. Limits: Confine constructions operations to within parcel as detailed on plans.
 2. Driveways and Entrances: Keep driveways, access easements, and entrances serving premises clear and available at all times. Do not use these areas for parking or storage of materials.

1.07 WORKING HOURS

- A. The Contractor's hours of operations are as indicated in the Special Provisions.
- B. The Contractor is responsible for all additional expenses due to additional Work hours outside of standard Work hours. This includes, but is not limited to: COUNTY'S Consultant, Testing Laboratory personnel, etc. Such additional charges shall be a subsidiary obligation of Contractor and no extra payment shall be made by COUNTY on account of such overtime Work.
- C. Contractor shall secure the site when not working or working after standard working hours.

1.08 WORK RESTRICTIONS

- A. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by adjacent owners, tenants, or others unless permitted under the following conditions and

then only after arranging to provide temporary utility services according to requirements indicated.

1. Notify COUNTY not less than 48-hours in advance of proposed utility interruptions.
2. Do not proceed with utility interruptions without COUNTY'S written permission.

B. Haul Routes:

1. Notify COUNTY of all haul routes to disposal sites.
2. In accordance with Section 02 81 00 – Transportation and Disposal of Hazardous Materials.

1.09 WORK SEQUENCE

- A. Coordinate construction schedule and operations with COUNTY.

1.10 PERMITS, FEES AND NOTICES

- A. The Contractor shall secure and pay for all permits and governmental fees, licenses and inspections for the proper execution and completion of the Work which are customarily secured after execution of the Contract and which were legally required at the time bids were received.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

(Not Used)

END OF SECTION

SECTION 01 30 00
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Materials Survey.
 - 2. Meetings.
 - 3. Submittals.

1.02 MEASUREMENT AND PAYMENT

- A. Work specified in this section is included in the lump sum contract price.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

3.01 MATERIALS SURVEY

- A. Project is based on known items and quantities as of the time and date of this project manual. The Contractor is to verify all quantities identified within the Project Manual. Costs for additional survey services shall be the responsibility of the Contractor.

3.02 PRECONSTRUCTION MEETING

- A. Consultant will schedule a meeting after Notice of Award.
- B. Attendance Required:
 - 1. COUNTY.
 - 2. Consultant.
 - 3. Contractor.
 - 4. Contractor's Superintendent.
 - 5. Major Subcontractors.
- C. Agenda:
 - 1. Submission of list of Subcontractors, list of Products, schedule of values, and progress schedule.
 - 2. Designation of personnel representing the parties in Contract and the Consultant.
 - 3. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
 - 4. Use of premises by COUNTY and Contractor.

5. COUNTY'S requirements.
 6. Facilities and controls provided by COUNTY.
 7. Temporary utilities provided by COUNTY/Contractor.
 8. Security and housekeeping procedures.
 9. Scheduling.
 10. Procedures for maintaining record documents.
- D. Consultant shall record minutes and distribute copies within seven days after meeting to participants, with copies to COUNTY, participants, and those affected by decisions made.

3.03 PROGRESS MEETINGS

- A. Contractor to schedule and administer meetings throughout progress of the Work on a bi-weekly interval.
- B. Contractor to make arrangements for meetings, prepare agenda with copies for participants, preside at meetings, record minutes, and distribute copies within seven days to Consultant, COUNTY, participants, and those affected by decisions made.
- C. Attendance Required: Job superintendent, major Subcontractors and suppliers, COUNTY, Consultant, as appropriate to agenda topics for each meeting.
- D. Agenda:
1. Review minutes of previous meetings.
 2. Address public concerns and complaints.
 3. Review of Work progress.
 4. Field observations, problems, and decisions.
 5. Identification of problems which impede planned progress.
 6. Review of submittals schedule and status of submittals.
 7. Maintenance of progress schedule.
 8. Corrective measures to regain projected schedules.
 9. Planned progress during succeeding Work period.
 10. Coordination of projected progress.
 11. Maintenance of quality and Work standards.
 12. Effect of proposed changes on progress schedule and coordination.
 13. Other business relating to Work.
 14. Schedule next meeting.
- E. Contractor shall record minutes and distribute copies within seven days after meeting to participants, with copies to Consultant, COUNTY, participants, and those affected by decisions made.

3.04 SUBMITTALS

- A. Required submittals are specified in individual sections.

3.05 NUMBER OF COPIES OF SUBMITTALS

A. Documents for Review:

1. Submit the number of copies which the Contractor requires, plus three copies which will be retained by the Consultant.

B. Documents for Information: Submit two copies.

3.06 SUBMITTAL PROCEDURES

A. Transmit each submittal with Contractor's standard submittal form, if provided.

B. Schedule submittals to expedite the Project and deliver. Coordinate submission of related items.

3.07 RE-SUBMITTALS

- A. Re-submittals will be handled in the same manner as first submittals. On re-submittals, direct specific attention, in writing on the transmittal letter and on re-submitted shop drawings by use of revision triangles or other similar methods, to revisions other than the corrections requested by the Consultant, on previous submissions. Any such revisions which are not clearly identified shall be made at the risk of the Contractor. Make corrections to any Work done because of this type revision that is not in accordance to the Contract Documents as may be required by the Consultant.

END OF SECTION

SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. Temporary construction facilities for Consultant and Contractor including telephone, water, sanitary, security, temporary fencing, parking and field office.
2. Requirements to minimize pollution of air, water, or land, control of noise, and the disposal of solid waste materials.
 - a. Solid waste disposal.
 - b. Control of chemical waste.
 - c. Control of dust.
 - d. Control of noise.
 - e. Protection of roadways.

1.02 MEASUREMENT AND PAYMENT

- A. Work specified in this section is included in the lump sum contract price.

1.03 QUALITY ASSURANCE

- A. Items provided under this section shall be listed and labeled by UL or other Nationally Recognized Testing Laboratory (NRTL).
1. Term "NRTL" shall be as defined in OSHA Regulation 1910.7.
 2. Terms "listed" and "labeled" shall be as defined in National Electrical Code, Article 100.
- B. Comply with federal, state, and local codes and regulations, and with utility company requirements.

1.04 SUBMITTALS

- A. Submit in accordance with Section 01 30 00 – Administrative Requirements.

PART 2 PRODUCTS

2.01 TEMPORARY UTILITIES

- A. COUNTY shall provide and pay for all electrical power and lighting required for construction purposes if able to be reconnected at the project site unless otherwise notified by Consultant.

2.02 TEMPORARY TELEPHONE SERVICE

- A. A cellular phone shall be acceptable as temporary phone service. Provide telephone number(s) at which responsible representatives of Contractor can be reached evenings, weekends and holidays.

2.03 TEMPORARY WATER SERVICE

- A. Contractor shall provide and pay for water service and all water used unless otherwise notified by Consultant.

2.04 TEMPORARY SANITARY FACILITIES

- A. Contractor to provide and maintain temporary toilet facilities and enclosures for Contractor's workers, Consultant's personnel, COUNTY'S personnel and testing firm personnel working at project site. Provide at time of project mobilization and maintain until project completion.
- B. Portable toilets with hand sanitizer shall be acceptable. Comply with all applicable codes and regulations. Arrange for regular cleaning and/or replacement of portable toilets.
- C. Maintain daily in clean and sanitary condition.

2.05 TEMPORARY FENCE AND GATES

- A. Provide temporary fencing as required by OSHA or as needed to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
- B. Materials shall be sufficiently durable to be effective for duration of construction period.

2.06 FIELD OFFICES AND BUILDINGS

- A. Contractor is not required to have a temporary field office on-site.

PART 3 EXECUTION

3.01 GENERAL

- A. Employ and utilize environmental protection methods, obtain all necessary permits, and fully observe all local, state, and federal regulations. Contractor shall be responsible for any and all fines imposed by any regulatory agency due to the Contractors activities.

3.02 WATER CONTROL

- A. Conform to the regulations and requirements of legally authorized surface water management agencies.
- B. Protect site from puddling or running water. Provide water barriers as required to protect property from water damage.
- C. Water utilized for asbestos removal must be containerized and properly disposed of at a permitted facility unless field filtered in accordance with local, state and federal regulations.

3.03 SOLID WASTE DISPOSAL

- A. Contractor Generated:
 - 1. Collect solid waste on a daily basis.
 - 2. Dispose of non-hazardous waste generated on-site at an approved facility.
 - 3. Solid waste generated off-site shall not be brought onto or accepted at the site as part of this Contract.

4. Refer to individual specification sections for disposal requirements for other solid waste, debris, and ACM.

3.04 CONTROL OF DUST

- A. The control of dust shall mean that no construction activity shall take place without applying all such reasonable measures as may be required to prevent particulate matter from becoming airborne so that it remains visible beyond the limits of construction.
- B. Utilize methods and practices of construction to eliminate dust in full observance of agency regulations.
- C. The Consultant will determine the effectiveness of the dust control program and may request the Contractor to provide additional measures, at no additional cost to COUNTY.

3.05 PROTECTION OF AIR QUALITY

- A. Minimize air pollution by requiring use of properly operating combustion emission control devices on construction vehicles and equipment and encourage shutdown of motorized equipment not in use.
- B. Burning of brush and other debris is permitted on-site but must comply with local codes and fire preventions.

3.06 CONTROL OF NOISE

- A. There are no existing COUNTY noise ordinances limiting equipment operation between certain hours.
- B. Conduct operations to cause least annoyance to residents in vicinity of Work and comply with applicable local ordinances.
- C. Equip compressors, hoists, and other apparatus with mechanical devices necessary to minimize noise and dust. Equip compressors with silencers on intake lines.
- D. Equip gasoline or oil-operated equipment with silencers or mufflers on intake and exhaust lines.
- E. Route vehicles carrying soil, debris, or other material over such streets as will cause least annoyance to public and do not operate on public streets outside of times specified in General Requirements

3.07 PROTECTION OF ROADWAYS & PARKING AREAS

- A. Contractor is responsible for maintenance and restoration of public roads used for hauling of materials and equipment to and from the site.
- B. Contractor shall clean debris resulting from his operations from the haul roads on a daily basis, or as instructed by the Consultant.
- C. The Contractor shall not utilize local storm sewer inlets to wash and remove debris from the haul roads.
- D. All hauling operations on- and off-site shall be completed in a manner that minimizes deposition of litter and debris on adjacent roadways

3.08 SECURITY

- A. Provide security and facilities to protect Work, existing facilities, and COUNTY'S operations from unauthorized entry, vandalism, or theft.

any tunnels or crawl spaces, etc.).

4. Remove and properly dispose of hazardous and non-hazardous materials that cannot be co-disposed with building demolition materials prior to demolition, including but not limited to: ACM material, universal waste, polychlorinated biphenyl (PCB)-containing equipment and materials, petroleum products, compressed gases, flammable liquids, potentially radioactive materials, and containers with unknown materials.
5. Remove and properly dispose of all structures, contents of structures, trash, and rubbish in accordance with federal, state and local regulations.
6. Backfill all existing tunnels, basements, etc.
7. Complete rough site grading.
8. Perform site clearance.

1.06 PROTECTION OF THE PUBLIC AND PROPERTIES

A. Litter:

1. Remove any demolition debris or mud from any street, alley or right-of-way resulting from the execution of the demolition Work. Any cost incurred by the Owner in cleaning up any litter or mud shall be charged to the Contractor and be deducted from funds due for the Work.
2. Littering of the site shall not be permitted.
3. All waste materials shall be promptly removed from the site.

B. Street Closure:

1. Conduct demolition and debris removal operations to ensure minimum interference with roads, streets, walkways, and other adjacent occupied and used facilities.

C. Protection of the Public:

1. **Sidewalks:** The Contractor shall be responsible for any damage to public sidewalks and roadways abutting or adjacent to the demolition properties resulting from the execution of the demolition Work. The cost of repair or replacement shall be considered incidental to the Work and the Contractor shall obtain all permits and pay any fees.
2. **Pedestrian Access:** Place and construct the necessary warning signs, barricades, fencing and temporary pedestrian sidewalks, as directed by the Owner; and to maintain alternate pedestrian access for sidewalks around the demolition site. The cost of these items shall be considered incidental to the Work.
3. **Temporary Fence:** Erect a temporary chain-link safety fence at a height of a minimum of six feet around the demolition site to prevent access to the public. Such fence shall be consistently restrictive from top to grade, and without horizontal openings wider than two inches. The fence shall be erected before demolition and shall not be removed until the site has been backfilled.
 - a. The temporary fence material and posts shall remain the property of the Contractor.
 - b. Refer to fence requirements in Section 01 50 00 – Temporary Facilities and

Controls.

D. Demolition Hours:

1. Comply with any restrictions to working hours as included in the General Requirements.
2. Comply with all applicable ordinances and restrictions of the Jurisdiction.

E. Noise Pollution:

1. There are no existing COUNTY noise ordinances limiting equipment operation between certain hours.
2. Conduct operations to cause least annoyance to residents in vicinity of Work and comply with applicable local ordinances.
3. Equip compressors, hoists, and other apparatus with mechanical devices necessary to minimize noise and dust. Equip compressors with silencers on intake lines.
4. Equip gasoline or oil-operated equipment with silencers or mufflers on intake and exhaust lines.
5. Route vehicles carrying soil, debris, or other material over such streets as will cause least annoyance to public and do not operate on public streets outside of times specified in General Requirements.

F. Dust Control: Comply with applicable air pollution control requirements of the Jurisdiction. Contractor shall take appropriate actions to minimize atmospheric pollution. To minimize atmospheric pollution, the Owner shall have the authority to require that reasonable precautions be taken to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, but not be limited to:

1. The use of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land.
2. Covering, at all times when in motion, open-bodied trucks transporting materials likely to give rise to airborne dusts.

G. Requirements for Reduction of Fire Hazards:

1. Removal of Material: Before demolition of any part of any building, remove all volatile or flammable materials, such as gasoline, kerosene, benzene, cleaning fluids, paints or thinners in containers, and similar substances.
2. Fire Extinguishing Equipment: Maintain the correct type and class of fire extinguisher on site. When a cutting torch or other equipment that might cause a fire is being used, a fire extinguisher shall be placed close at hand for instant use.
3. Fires: No fires of any kind will be permitted in the demolition Work area.
4. Hydrants: No material obstructions or debris shall be placed or allowed to accumulate within fifteen feet of any fire hydrant. All fire hydrants shall be accessible at all times.
5. Debris: Debris shall not be allowed to accumulate on roofs, floors, or in areas outside of and around any structure being demolished. Excess debris and materials shall be removed from the site as the Work progresses.

6. Telephone Service: Arrange for access to and use of, during working hours, one or more telephones (cell phones are sufficient) in the vicinity of the Work site for the purposes of making calls in case of fire or other emergencies, and shall keep all personnel on the job, and the local jurisdiction informed of the location of such telephones. The Contractor's foreman, or at least one regular member of each shift, shall be charged with the responsibility of promptly calling emergency services when necessary. The same person shall be required to inspect the building and the site frequently for possible fires or fire-producing conditions and to apply appropriate corrective action, particularly at the close of Work each working day.
- H. Protection of Public Utilities: The Contractor shall not damage existing fire hydrants, street lights, traffic signals, power poles, telephone poles, fire alarm boxes, wire cables, pole guys, underground utilities or other appurtenances in the vicinity of the demolition sites. The Contractor shall pay for temporary relocation of utilities, which are relocated at the Contractor's request for his convenience:
- I. Protection of Adjacent Property:
 1. Conduct operations to minimize effects on and interference with adjacent structures.
 2. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon or limit access to their property.
 3. Protect adjacent walkways, loading docks, building entries, and other building facilities during demolition operations.
 4. Do not damage any public right-of-way, structures, parking lots, drives, streets, sidewalks, utilities, lawns or any other property adjacent to demolition project. Cost of repair or replacement shall be considered incidental to the Work and the Contractor shall obtain all permits and pay any fees.
 5. Provide such sheeting and shoring as required to protect adjacent property during demolition. Prevent the spread of dust and flying particles.

1.07 RISK OF LOSS

- A. Contractor shall accept the site in its present condition and shall inspect the site for its character and the type of structures to be demolished.
- B. Jurisdiction assumes no responsibility for the condition of existing buildings, structures, and other property within the demolition area, or the condition of the property before or after the solicitation for proposals. No adjustment of proposal price or allowance for any change in conditions that occur after the acceptance of the lowest responsible, responsive proposal will be allowed.

1.08 PROPERTY OWNERSHIP

- A. Unless otherwise indicated in the Contract Documents, upon execution of the contract, all rights, title, and interest of the Jurisdiction in and to buildings, structures and other property to be demolished and/or removed by the Contractor on part or all of said project area as described in the Contract Documents, shall be deemed to be vested in the Contractor.
- B. Land: No property rights, title, or interest of any kind whatsoever, in or to the land or premises upon which such buildings or structures stand, is created, assigned, conveyed, granted, or transferred to the Contractor, or any other person or persons, except only the license and right of entry to remove such buildings and structures in strict accordance

with the Contract Documents. Contractor shall not use the land or premises, or allow any other party to use the land or premises, for any purpose other than activities in direct support of the demolition of the building.

1.09 RELEASE OF SITE

- A. The demolition area shall be released to the Contractor upon Award of Contract and Notice to Proceed.
- B. The Contractor shall have full control of the demolition progress and clearance of the site, subject to the provisions of the Contract Documents.

1.10 PERMITS AND FEES

- A. The Contractor shall obtain all the necessary permits and pay all permit fees that are required by the Jurisdiction in conjunction with the demolition Work.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

3.01 GENERAL

- A. Obtain required permits.
- B. Survey existing conditions and correlate with contract requirements. Inventory and record the condition of items to be removed and salvaged.
- C. Existing Utilities: Locate, identify, disconnect, and seal or cap off utilities serving buildings and structures to be demolished. Utilities must be capped/stopped at the right-of-way. Do not start demolition Work until utility disconnecting and sealing/capping have been completed and verified in writing by the utility company. Survey and record actual locations of capped utilities on Record Drawings.
- D. Temporary Shoring: Provide and maintain interior and exterior shoring, bracing, or structural support to preserve stability and prevent unexpected movement or collapse of structure being demolished.
 - 1. Strengthen or add new supports when required during progress of demolition.
 - 2. Shoring and bracing design, construction, and removal shall be the responsibility of the Contractor.
- E. Remove asbestos containing materials (ACM) prior to demolition.
 - 1. In accordance with Section 02 82 00 – Asbestos Remediation.
- F. Remove hazardous materials prior to demolition.
 - 1. In accordance with Section 02 80 00 – Facility Remediation.
- G. Provide the Owner with a minimum of 48 hours advance notification prior to beginning the execution of demolition of any structure.

3.02 TRAFFIC CONTROL MEASURES

- A. Determine haul routes and obtain approval of agency having jurisdiction over proposed

roadway.

- B. Street or lane closures shall be coordinated with the appropriate Jurisdiction authority. It shall be the Contractor's responsibility to acquire the necessary obstruction permits and to place adequate barricades and warning signs.
 - 1. Street closings shall be kept to the minimum time necessary to complete the work. The Jurisdiction authority or Engineer will determine how many streets or parts of streets may be closed by the Contractor at one time, and may refuse to allow the closing of additional streets or portions of streets until some of the improvement is finished and open to traffic.
 - 2. Notify the Engineer 48 hours in advance (excluding weekends) of closing any roads, streets, or public thoroughfares. No road or street shall be closed without prior approval from the Engineer.
- C. Arrange and pay for traffic control measures, such as temporary barricades, signage and signals, to minimize interference with pedestrian and vehicular traffic and to provide protection for and from Contractor on-site operations and hauling to/from the project site.
 - 1. As required by local, state and/or federal requirements, such as specified by the Federal Highway Administration Manual on Uniform Traffic Control Devices, 2009, plus supplements, and the Iowa Manual on Uniform Traffic Control Devices (MUTCD).
 - 2. Erect and maintain from initiation of project through final completion, as necessary.
- D. During construction, areas to be maintained for traffic shall be kept clear of all hazardous materials, including but not limited to construction debris, dust, and mud.
- E. Existing Permanent Signage
 - 1. Do not remove, relocate, or reset any permanent Jurisdictional traffic control devices unless authorized to do so by the Engineer or contract documents. If a sign must be removed or relocated for any phase of construction, notify the Engineer of the necessity for removal. The Engineer shall arrange for the removal, relocation, or resetting of permanent traffic control devices by Jurisdictional personnel as needed to allow the work to proceed. If Jurisdictional personnel are not available, the authorized Jurisdictional representative may give authorization to the Contractor to remove, relocate, or reset the permanent traffic control devices.
 - 2. In the event the Contractor removes or relocates a traffic control sign without prior notice to or authorization from the Engineer, the Contractor shall bear all responsibility and liability to any person sustaining bodily injury or property damage on account thereof.

3.03 EXISTING UTILITIES

- A. Coordinate work with utility companies; notify before starting work and comply with their requirements, to include obtaining and complying with required permits.
 - 1. Contractor shall field verify all utility locations.
 - 2. Provide notice to each utility sufficiently in advance of such operations to allow the utility time to mark the location of, relocate, adjust, or otherwise protect their facilities. Reach an agreement with each utility on appropriate action necessary to protect or relocate the utility facilities. The cost of such action to protect the facilities shall be borne by the Contractor. Utilize Iowa Utility One-Call at 800-292-8989 or 811 for

locates for those utilities which subscribe to this service.

3. At all times conduct operations so that necessary clearances are maintained and said utility facilities are protected. Comply with all local, state, and federal or other regulations in performing work near utility facilities.
 4. Should the Contractor damage any of the utility facilities during Contractor's operations or determine the work cannot be performed safely, the Contractor shall immediately notify the utility involved and cease work until arrangements are made to prevent further damage or a serious accident. Contractor is responsible for the cost to repair any damage, including disruption of service, to any utility facility resulting from Contractor's operation.
 5. Do not disrupt public utilities without permit from authority having jurisdiction.
- B. Utilities must be capped/stopped at the right-of-way.
- C. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- D. Sanitary Sewer and Water Service Disconnection: All sanitary sewer and water services shall be disconnected and property abandoned by a licensed plumber, and inspected and approved by COUNTY prior to covering.
1. Abandonment shall occur at the edge of the demolition area in accordance with Owner's requirements.
 2. Coordinate procedures, schedule, and inspections with COUNTY.
- E. Mark location of terminated utilities physically and on Record Drawings.
- F. Work must be reviewed and approved by COUNTY.

3.04 DEMOLITION AND REMOVALS

- A. Demolish foundation footings and other below-grade construction.
1. Remove below-grade construction, including foundation footings, basement slabs, and any tunnels or crawl spaces completed, unless indicated otherwise on the Drawings.
- B. Abandoned buried pipes and conduits that are exposed during the structure demolition shall be removed in entirety.
- C. Fences:
1. Fences, guardrails, bumpers, signs, clotheslines, and similar facilities shall be completely removed from the boundary of the demolition area.
- D. Partially Buried Objects: All piping, posts, reinforcing bars, anchor bolts, railings and all other partially buried objects protruding from the ground shall be entirely removed from the ground.
- E. Vegetation:
1. The Contractor shall remove vegetation necessary to conduct demolition activities unless specifically stated otherwise by the Owner. All trees within the boundary of the demolition area are to remain.

2. Brush and other debris may be burned on-site, but must comply with local codes and fire preventions.
- F. If hazardous materials (not identified and removed as part of the initial abatement) are discovered during removal operations, stop Work and notify Owner.
- G. Engineering Surveys to detect hazards that may result from building demolition activities are not required. Contractor is responsible in determining method of demolition and ensuring work is completed in a safe manner.
- H. Dust Suppression:
1. Use water mist and other suitable methods to limit spread of dust and dirt.
 2. Comply with governing environmental-protection regulations. Do not use water when it may damage adjacent construction or create hazardous or objectionable conditions, such as ice, flooding, and pollution.

3.05 DEBRIS/WASTE MANAGEMENT

- A. Dispose or recycle demolition materials, with the exception of any items specifically designated for salvage by Owner. All building materials and equipment resulting from this Work shall be removed from the premises at once. Salvaged material shall be removed immediately from the premises, right-of-way, streets or alleys.
- B. Storage or sale of removed items or materials on-site is not permitted.
- C. Remove debris, rubbish, and trash from exterior grounds.
- D. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials, ACM, and other hazardous materials.
- E. Except for items or materials indicated to be salvaged or otherwise indicated to remain Owner's property, remove demolished materials from project site and legally dispose or recycle them at an approved facility licensed in accordance with state and/or local regulations, laws, and zoning. Do not allow demolished materials to accumulate on-site. The Contractor shall be responsible to pay all fees for waste disposal. Submit to the Owner copies of all disposal tickets which identify the specific address of the origin of the debris associated with each ticket. The cost of all disposal fees shall be considered incidental to the demolition.
1. Maintain public streets, alleys, or other thoroughfares used in carrying out disposal free of litter or debris attributable to this operation. Equip and load trucks or other vehicles to prevent leakage, blowing off, or other escape of any portion of debris whatsoever.
 2. Methods of trash/debris/waste disposal that are not acceptable are:
 - a. Burying on the project site.
 - b. Dumping or burying on other property, public or private.
 - c. Other illegal dumping or burying.

3.06 BACKFILL, GRADING, AND CLEAN UP

- A. All voids (basements, tunnels, crawl spaces, etc...) must be backfilled.

- B. Final Cleaning Up: Before acceptance of the demolition Work, the Contractor shall remove all unused material and rubbish from the site of the Work, remedy any objectionable conditions the Contractor may have created on private property, and leave the right-of-way in a neat and presentable condition. The Contractor shall not make agreements that allow salvaged or unused material to remain on private property. All ground occupied by the Contractor in connection with the Work shall be restored.
- C. At the end of each workday, the Contractor shall clean sidewalks, streets, and private property of any debris caused by the demolition operation.
- D. Uniformly rough grade area of demolished construction to a smooth surface, free from irregular surface changes. Provide a smooth transition between adjacent existing grades and new grades.
- E. Final cleaning up shall be subject to approval of the Owner and in accordance with applicable regulations.

3.07 RESTORATION

- A. Restore existing surface features that are to remain in equal or better condition than existed prior to Work.
- B. Restore existing asphalt pavement that is to remain in equal or better condition than existed prior to Work.
- C. Damage to the existing asphalt is to be repaired using a hot mix asphalt consisting of HMA Standard Traffic (ST) intermediate/surface, 1/2", PG-58S mix.

END OF SECTION

SECTION 02 65 00
UNDERGROUND STORAGE TANK REMOVAL

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
1. Underground storage tank closure activities.
 2. Applicable Standards and Guidelines.

1.02 MEASUREMENT AND PAYMENT

- A. Work specified in this section is included in the lump sum contract price.

1.03 DESCRIPTION

- A. An assumed 1,200 gallon heating oil underground storage tank (UST) is present on site and must be removed. Though the heating oil tank is exempt from regulation as it was for consumptive use on the site where it is stored, the COUNTY is treating the heating oil tank as a regulated tank using the assumption contamination will be found during underground storage tank removal.
1. Contractor is responsible for cleaning and disposal of the tank and any associated piping.
 2. Contractor must collect soil and groundwater samples for laboratory analysis.
- B. Provide services for proper removal and disposal of soils if contaminated soil is encountered on site.

1.04 COMPLIANCE WITH LAWS AND STANDARDS

- A. Ensure that all Work is performed in strict compliance with applicable federal, state, county and municipal codes, laws, ordinances, rules or regulations.
- B. Remove UST and clean according to industry standards:
1. Follow all pre-removal activities (disconnect electrical, drain piping/tank, purging/inerting tank) as outlined in IDNR's Underground Storage Tank Closure Guidance dated May 2021.
 2. API RP 1604, Removal and Disposal of Used Underground Petroleum Storage Tanks.
 3. API Publication 2015, Cleaning Petroleum Storage Tanks.
 4. API RP 1631, Interior Lining of Underground Storage Tanks.
 5. The National Institute for Occupational Safety and Health (NIOSH) *Criteria for a Recommended Standard...Working in Confined Space* may be used as a guidance for conducting safe closure procedures at some hazardous substance tanks.
 6. NFPA 326: Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair.
 7. NFPA 30: Flammable and Combustible Liquids Cod, 30-93.

1.05 NOTIFICATIONS AND PERMITS

- A. Obtain all required permits and submit the property notifications to federal, state, and local regulatory agencies.
- B. Utilize Iowa Utility One-Call at 800 292 8989 or 811 for locates for those utilities which subscribe to this service at least 48 hour prior to removal of UST.
- C. Submit DNR Form 542-1308 Notification of Tank Closure or Change-in-Service (IDNR Form 542-1308 – July 2012) to IDNR at least 30 days prior to removal of UST. Must be signed by a licensed UST remover and include certified groundwater professional (CGP) information.
- D. Notify IDNR Field Office 3 – (712) 262-4177 24 hours prior to removal of UST.

1.06 SUBMITTALS

- A. Complete and submit UST Closure Report – Tank and/or Piping Removal (DNR Form 542-1303, May 2021) to IDNR within 45 days of UST removal.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

3.01 SUMMARY

- A. Remove UST and clean tank according to industry standards.
- B. Perform environmental sampling as required for UST closure.

3.02 TANK CLOSURE ACTIVITIES

- A. Tank Removal:
 - 1. All tank closure activities must be overseen by a licensed UST Remover and CPG.
 - 2. Drain and flush piping into the tank, and disconnect piping from the tank. Remove product piping.
 - 3. Empty the tank and purge all combustible vapors by inerting or venting through the vent line.
 - 4. Monitor the tank for combustibility with a combustible gas meter until the tank atmosphere is less than 10% of the lower flammable or explosive limit (LFL/LEL).
 - 5. Remove tank appurtenances (gauge pipes, fill pipes, turbines, etc.). Leave vent line connected until the tank is purged.
 - 6. Plug the openings and remove the tank from the excavation. Place it on a level surface and block it, or fill the tank to 100 percent capacity with an inert material.
 - 7. Clean and remove the tank according to industry standards.
- B. Sampling:
 - 1. Collect and PID approximately two (2) soil samples from beneath the UST as outlined in IDNR's Underground Storage Tank Closure Guidance. Analyze for

benzene, toluene, ethylbenzene, and xylenes (BTEX) via Iowa Method OA-1 and total extractable hydrocarbons (TEHs) via Iowa Method OA-2.

2. Collect and PID one (1) soil sample from beneath any piping connection and from every 10 feet of piping run as outlined in IDNR's Underground Storage Tank Closure Guidance. Analyze for BTEX via Iowa Method OA-1 and TEHs via Iowa Method OA-2.
3. Install, log, and PID a groundwater monitoring well in the presumed downgradient direction and within 20 feet of the tank basin as outlined in IDNR's Underground Storage Tank Closure Guidance. Property purge the well of stagnant water, collect groundwater sample, and analyze for BTEX via Iowa Method OA-1 and TEHs via Iowa Method OA-2.

END OF SECTION

1. Personal Protective Equipment: 29 CFR 1910 Subpart I, 1910.132 – 1910.140.
- J. An emergency plan for situations, including an emergency response team for emergency spill cleanup, medical and fire emergencies, etc.
 1. EPA – 40 CFR 264.30, 264.56, 265.30, 265.55
 2. OSHA – 29 CFR 1910.120
- K. A Work schedule detailing the time periods to complete inventory, profiling, lab-packing, transporting, storage and disposal phases of project.
- L. At project closeout, submit copies of all chemical inventory sheets, manifests, documentation, notifications, daily Work log, any incident reports, waste treatment standards, locations of disposal facilities where wastes were transported to, and any other documents affiliated with the Work project.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

3.01 SUMMARY

- A. Survey existing conditions and correlate with requirements indicated to determine extent of hazardous material removal.
- B. Inventory and record the condition of items to be removed.

3.02 ACCIDENT PREVENTION

- A. Site safety shall be the top priority and responsibility of the Contractor. The Contractor and all subcontractors shall monitor their personnel at all times.
- B. Supply and use personal protective equipment, fire extinguishers, chemical detection tubes, and other safety equipment required to complete the Work.
- C. Erect any necessary barricades/barrier warning tapes to isolate Work areas from unauthorized persons.
 1. Maintain any barricades/barrier tapes throughout the Work project as needed.
 2. Ensure that Work areas are always secured from unauthorized persons.

3.03 SPILLS

- A. Contractor shall exercise extreme care when performing the Work to be done as to avoid spills or contaminating the site or surrounding environment.
- B. Report spills of any kind immediately to the COUNTY or contracting agency and promptly implement containment and cleanup action as necessary or as directed.
- C. Provide all necessary equipment, materials, and labor to clean up any spills released while performing any Work in these specifications. All costs related to spills, including but not limited to contract delays, monitoring and waste disposal, will be borne by the Contractor.

3.04 GENERAL PROCEDURES

- A. Isolate, seal, post, and secure Work areas in accordance with OSHA Regulation 29 CFR 1910.120.
- B. Prior to start of Work, Work area is to be inspected for proper isolation, posting, and proper enclosures, if needed.
- C. Ensure that all hazardous waste materials and chemicals, including any unknowns, are properly identified, profiled, lab-packed, and disposed of at an approved disposal facility.
- D. Leave Work area free of any materials and equipment used during the Work project.
- E. The Contractor and the COUNTY or contracting agent shall conduct a visual walkthrough when all hazardous materials are removed.
- F. Refer to Section 02 99 00 – Transportation and Disposal of Hazardous Materials for manifesting and disposal requirements.

END OF SECTION

SECTION 02 81 00
TRANSPORTATION AND DISPOSAL OF HAZARDOUS MATERIALS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Requirements for the transportation and disposal of materials generated during this project which require off-site disposal and/or treatment. Materials that will or may be found on-site requiring off-site recycling or disposal include:
 - a. Rubbish, trash, and miscellaneous garbage.
 - b. Asbestos containing materials (ACM).
 - c. Miscellaneous building debris and rubble.
- B. Furnish all labor, equipment, materials and incidentals required to transport all materials required to be recycled or disposed of off-site.

1.02 MEASUREMENT AND PAYMENT

- A. Work specified in this section is included in the lump sum contract price.

1.03 SUBMITTALS

- A. Within 10 days after Notice to Proceed:
 - 1. Names and locations of all facilities proposed to be used for the disposal of materials off-site.
 - 2. Acceptance criteria, if any for each type of waste stream at each facility proposed.
 - 3. Sampling and analytical criteria, if any, for each type of waste stream at each facility proposed.
 - 4. Any other restrictions which may be imposed by each of the proposed facilities.
- B. As the Work proceeds:
 - 1. Blank sample of shipping documents and disposal manifests for each type of waste stream a minimum of three days prior to their proposed date of use.
 - 2. Copies of all waste profile forms, waste disposal manifests, and bills of lading required by the disposal facilities.
 - 3. Copies of certificates of disposal, destruction, treatment, recycling as applicable and as issued by the disposal facility following acceptance and final disposition of the various waste streams.
 - 4. Proposed transportation routes and alternate transportation routes to each disposal facility.
- C. At Contract Closeout:
 - 1. Summary spreadsheet of all waste and recyclable materials hauled from the site, quantities, and identification of the disposal, recycle, or salvage facility.

1.04 QUALITY ASSURANCE

- A. Ensure each facility possess all necessary permits required for accepting and disposing of wastes and that these permits are current.
- B. Use only disposal facilities previously approved by COUNTY for performance of Work.
- C. Contractor shall have responsibility to meet requirements of these Specifications, and acceptance of bid does not constitute nor imply approval of proposed off-site waste disposal facility(ies). COUNTY shall have right to deny approval of any/all facility(ies) that does not comply with these Specifications.
- D. COUNTY may schedule inspections of disposal facility, as appropriate, to assess compliance status.
- E. In event that identified and approved facility ceases to accept stated waste materials or facility ceases operations, it is Contractor's responsibility to locate alternate approved and permitted facility for accepting waste materials. Contractor is responsible for making necessary arrangements to utilize facility, and alternate facility must be approved by COUNTY in same manner and with same information as for original facility.
- F. Originate, maintain, and provide COUNTY or COUNTY'S Consultant with copies of waste shipment manifest records for all waste materials transported off-site. Contractor shall verify nature and quantity of wastes shipped on each load. Manifest forms and records shall be consistent with requirements of RCRA, U.S. DOT regulations, and state requirements. COUNTY shall be designated generator for purposes of transport manifest.
 - 1. Provide COUNTY with written documentation verifying receipt of each load at designated treatment or disposal facility and verification of proper treatment or disposal.
 - 2. Notify COUNTY immediately if Contractor fails to receive "Notification of Receipt" of any waste shipment within reasonable time frame approved by COUNTY or COUNTY'S Consultant. Contractor shall undertake whatever actions are necessary to determine status of shipment and remedy situation.

1.05 REFERENCE STANDARDS

- A. Comply with all applicable federal, state and local laws, codes and ordinances which govern or regulate waste transportation and disposal. Regulations regarding transportation and final disposal of wastes at minimum include but are not limited to the following:
- B. United States Federal Government – Code of Federal Regulations (CFR)
 - 1. 29 CFR Occupational Safety and Health Standards
 - 2. 49 CFR 387 (46 CFR 30874, 47073)
 - 3. Department of Transportation DOT-E 8876
 - 4. 40 CFR 136 Guidelines Establishing Test Procedures for Analysis of Pollutants
 - 5. 40 CFR 261 Identification and Listing of Hazardous Waste
 - 6. 40 CFR 262 Standards Applicable to Generators of Hazardous Waste
 - 7. 40 CFR 263 Standards Applicable to Transporters of Hazardous Waste
 - 8. 40 CFR 264 Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities

9. 40 CFR 265 Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal
10. 40 CFR 266 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities
11. 40 CFR 268 Subparts (C) and (D) Land Disposal Restrictions
12. 40 CFR 279 Standards for the Management of Used Oil
13. 49 CFR 107 Hazardous Materials Program Procedures
14. 49 CFR 171 General Information, Regulations and Definitions
15. 49 CFR 172 Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information and Training Requirements
16. 49 CFR 173 Shippers – General Requirements for Shipments and Packaging
17. 49 CFR 177 Carriage by Highway
18. 49 CFR 178 Specifications for Packaging

PART 2 PRODUCTS

2.01 PACKING MATERIALS

- A. Provide all of the materials and equipment required for packaging, labeling, placarding and transportation of waste streams from the site in conformance with department of transportation, federal, state and local regulations.

PART 3 EXECUTION

3.01 NOTIFICATION

- A. Notify all applicable federal, state and local representatives, or any other authority which has jurisdiction over the mode and route of transport, in advance of commencing waste stream transport. Obtain all required approvals from those parties having jurisdiction over the transport.

3.02 MANIFESTING

- A. Provide and prepare manifests as required for the transportation and disposal of the waste streams from the site. Waste manifests shall be completed in a form acceptable to the state and federal regulatory agencies. After completion by the Contractor, all waste manifests shall be signed by the COUNTY or COUNTY'S Consultant.

3.03 LABELING

- A. Upon removal of all contaminated materials, properly label all containers or transports prior to transporting these materials for disposal. Contractor shall be responsible for labeling all containers and transports in accordance with applicable federal and state regulations.

3.04 TRANSPORTATION AND ENTRY/EXIT REQUIREMENTS

- A. Transport all waste streams from the site in conformance with department of transportation, federal, state and local regulations governing the type of waste stream

being transported. This includes, but not limited to, requirements for operator training and requirements for packaging, labeling, marking, placarding of various waste shipments.

- B. All waste streams shall be transported directly to the disposal facility from the site. Neither the route nor the mode of transportation shall deviate from the approved route without prior written approval from the COUNTY or COUNTY'S Consultant.
- C. Inspect existing roadways immediately adjacent to the site and document their condition prior to project start-up. Any/all repairs or improvements, including permits and/or approvals, to accommodate off-site transportation of wastes shall be responsibility of Contractor. Provide documentation to COUNTY or COUNTY'S Consultant prior to any hauling operations.
- D. Document all entry/exit procedures for transports in Off-Site Transportation and Disposal Plan and shall instruct and provide written instructions to all transporters as to these procedures. Contractor shall see that all personnel are provided with adequate protective equipment in accordance with Contractor's health and safety plan.

3.05 LOADING OF MATERIALS INTO TRANSPORT CONTAINERS

- A. Waste streams will be loaded into transport containers in a manner which minimizes the spilling of materials. Materials which have been segregated on site shall not be mixed in transport containers unless characterized as same waste type. Waste streams shall be secured in transport containers in accordance with the regulations which govern the transportation of these materials. At a minimum, each load of excavated material must be covered prior to leaving the site. Materials shall be loaded into transport containers in manner which does not damage any polyethylene sheeting or other protective liner installed. Transport vehicles shall not be driven over waste streams stockpiled on site or contaminated material which will be excavated during the completion of the Work.
- B. Furnish, install, and maintain any on-site temporary loading facilities as required.
- C. Provide equipment, personnel, and on-site facilities necessary to handle and load waste materials designated for off-site transport.
- D. Ensure that all waste materials loaded for off-site transportation have been accurately identified and are in compliance with appropriate state and federal regulations.
- E. Each container shall be visually inspected upon loading to ensure it is properly sealed and there are no signs of spillage or leakage. All vehicles hauling bulk wastes from the site shall be inspected by the Contractor prior to leaving the site. Contractor shall certify proper containerization for each transporter leaving the site.
- F. Containers found to be leaking or bulk transports found leaking shall not be loaded until source of leaking is located and source contained. Area where leaking occurred, and any contaminated equipment shall be decontaminated.
- G. Contractor shall be responsible for any and all cleanup activities involving waste spilled in transit or during loading operations and shall be at the Contractor's expense.
- H. Contractor shall be responsible for verifying appropriate container sizes for off-site disposal in accordance with Federal Department of Transportation (DOT), state, and local regulations. Any requirements and expenses for oversize load are Contractor's responsibility.

3.06 HAULING REQUIREMENTS

- A. Implement hauling or transport schedule which minimizes congestion on and around site.
- B. Obtain and prepare manifest forms, obtain waste code numbers, and complete waste shipment records as required by State of Iowa and 40 CFR 261 for verifying waste type and quantity of each load transported off-site. Manifest form shall be verified by COUNTY or COUNTY'S Consultant and copies of each manifest retained by COUNTY or COUNTY'S Consultant following shipment.
- C. COUNTY or COUNTY'S Consultant will provide hazardous waste generator identification number and/or EPA identification number (for hazardous waste only) pursuant to 40 CFR 261 for use on manifest, if required.
- D. COUNTY or COUNTY'S Consultant will sign hazardous waste manifest as generator.
- E. Transport waste from site only to those facilities listed on manifest.
- F. Routes and timing must be coordinated with appropriate state regulatory agencies. All highway and road restrictions shall be adhered to by Contractor.
- G. Use transporter(s) approved by COUNTY. Any use of substitute or additional transporters shall have previous approval of the COUNTY.

3.07 VEHICLE DECONTAMINATION

- A. Decontaminate transport vehicles and containers in a designated decontamination area prior to their leaving the site. Decontamination shall include the removal of material on the tires and axles of trucks and any other material on the vehicle as a result of loading operations.

3.08 OFF-SITE DISPOSITION

- A. Dispose the various waste streams at COUNTY preapproved facilities. All waste facilities must have a valid facility permit from the regulating authority (U.S. or state) for that type of facility and for the type of waste which will be received. All disposal facilities must be constructed in a manner which meets or exceeds the requirements of federal regulations governing the type of disposal facility. No change in disposal facility for any type of waste stream shall be allowed without prior written approval of the COUNTY or COUNTY'S Consultant.

END OF SECTION

SECTION 02 82 00
ASBESTOS REMEDIATION

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
1. Removal, Cleanup and Disposal of Asbestos Containing Material (ACM).
 2. Applicable Standards and Guidelines.

1.02 MEASUREMENT AND PAYMENT

- A. Work specified in this section is included in the lump sum contract price.

1.03 DESCRIPTION

- A. The work includes demolition of the former County Home building and additions located at 1600 County Home Road, Sergeant Bluff, Iowa 51504. The property includes a 3-story building with a base area of 9,220 square feet (sf); a 12,472-sf base area addition, a 1,600-sf base area addition, a 640-sf base area addition, and two 40-sf base area additions. All buildings, with the exception of the 12,472-sf base area addition (1975), were constructed in 1921. The 9,200-sf building and 1,600-sf addition each have a gable roof covered by shingles. All other structures have a built-up, flat roof. All structures are brick. Demolition includes removal of foundation footings, basement slabs, and any tunnels or crawl spaces. The work includes removal and disposal of Asbestos Containing Materials (ACMs), hazardous and non-hazardous materials, designated structures, and one underground storage tank on the property. Specifications for asbestos removal includes both friable and non-friable ACMs. All ACMs removed from the Property must be disposed of at a permitted facility that accepts asbestos. All materials removed from the property shall be done in accordance with local, state, and federal regulations. The work also includes backfilling of all existing tunnels, basements, etc... associated with the demolition and rough site grading.
1. Contractor is responsible for verifying all quantities.
 2. No additional compensation will be made for materials not included in Contractor's lump sum bid.

1.04 REFERENCE STANDARDS

- A. Title 29, Code of Federal Regulations, Sections 1910.1001, 1910.134, 1910.2, 1910.1200 and 1926.58. Occupational Safety and Health Administration (OSHA), US Department of Labor.
- B. Title 40, Code of Federal Regulations, Part 61, Subparts A and M, National Emission Standards for Hazardous Air Pollutants. U.S. Environmental Protection Agency.
- C. Title 40, Code of Federal Regulations, Part 763, Subparts E and G, Asbestos Abatement Project.
- D. Chapter 88B of the Code of Iowa, removal or Encapsulation of Asbestos.
- E. Chapter 81 of the Iowa Administrative Code, Asbestos Control Procedures, Iowa Bureau of Labor.

- F. Iowa Bureau of Labor Guidelines for removal of Asbestos, Chapter 155.
- G. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.
- H. Title Code of Federal Regulations Part 763, Asbestos Containing Materials in Schools.
- I. EPA Guidance Document: Asbestos Waste Management Guidance (Blue Book).

1.05 SUBMITTALS

A. Pre-Abatement

1. Provide COUNTY with a copy of written notification to federal and state agencies (IDNR 10-Day Notification).
2. Submit a list of all personnel who will be involved in the abatement activity including, supervisors, workers, and any other personnel or agent who may be responsible for any aspect of the abatement activities. The list shall include all personnel's Asbestos Abatement Certification numbers and expiration dates. No personnel may be on-site if not certified.
3. Submit shop drawings for layout and construction of decontamination enclosure systems and barriers for isolation of the Work areas detailed in this Specification and required by applicable regulations if necessary.
4. With the COUNTY or COUNTY'S consultant, inspect the premises wherein all abatement and abatement related activities will occur and submit a statement signed by both, agreeing on property condition prior to the commencement of the Work.

B. Abatement activities:

1. Contractor shall submit, as required by the COUNTY, job progress reports detailing abatement activities.
2. Contractor shall keep daily copies of Work site entry logbooks with information on worker and visitor access. This must include the names and certification numbers and an outline of Work accomplished by those who enter.
3. Contractor shall submit a copy of emergency procedures.
4. Contractor shall record a log of all personnel who enter the Work area which will be made available to the COUNTY or COUNTY'S consultant upon request.
5. Submit copies of all transport manifests, trip tickets and disposal receipts for all asbestos waste materials removed from the Work area during the abatement process within seven (7) calendar days of completion of project.
6. The Project will not be considered complete until all submittals are received by the COUNTY, which will affect payment for the project.

1.06 QUALITY ASSURANCE

- A. Asbestos Firm Qualifications: An experienced firm that has specialized in asbestos abatement Work similar in size and scope to that indicated for this Project.
 1. Asbestos abatement workers must be licensed by the Iowa Division of Labor for the purpose of removal, encapsulation, enclosure, demolition, and maintenance of structures or components covered by or composed of asbestos containing materials.
- B. Regulatory Requirements: Comply with governing OSHA, IDNR and U.S. EPA notification regulations before beginning renovation or demolition activities. Comply with

hauling and disposal regulations of authorities having jurisdiction.

- C. Pre-Abatement Conference: Attend conference at Project site.

PART 2 PRODUCTS

2.01 MATERIALS

- A. The Contractor shall provide all materials and supplies necessary to complete the project.
- B. Store all materials so as to prevent damage or contamination.
- C. Damaged or deteriorating materials shall not be used.
- D. Containment materials shall be a minimum of 4 mil thick for walls and covering stationary objects. Containment materials for floors and other uses shall be at least 6 mil in thickness.
- E. Disposal bags shall be a minimum of 6 mil in thickness, pre printed with labels as required by 40 CFR 61.22(j)(3)(i)(C) and 49 CFR Part 172.
- F. Disposal drums shall be metal or fiberboard with locking ring tops. Stick on labels conforming to (E) shall be applied.
- G. Warning signs as specified by OSHA 29 CFR 1910.1001(j)(1)(ii) shall be used.
- H. Surfactant shall be a 50/50 mixture of polyoxyethyleneether and polyoxyethylene ester, or equivalent, mixed 1 fluid ounce to 5-gallon proportion, or as specified by the manufacturer.

2.02 EQUIPMENT

A. General

- 1. The Contractor shall supply all tools and equipment necessary to complete the project.
- 2. A sufficient quantity of HEPA filtered air filtration units must be utilized to maintain required air exchanges.
- 3. Full body disposable protective clothing impenetrable to asbestos shall be provided to authorize personnel as needed.
- 4. Approved safety equipment shall be provided as needed.
- 5. Equipment needed to complete the project such as scaffolds (may not be wood per the Fire Prevention Bureau (FPB) Policy 2011-3), ladders, and hand tools, and other tools shall be provided as needed.
- 6. HEPA filtered vacuums shall be available as needed during the project.

B. Respiratory Equipment

- 1. Respiratory protection in compliance with applicable OSHA regulations shall be provided.
- 2. For Class I work, the abatement workers and supervisors shall wear, at a minimum, powered air-purifying respirators with appropriate HEPA filters until such time that personal and short-term excursion limit samples show airborne asbestos levels of

0.3 f/cc or less. After these levels are achieved, the abatement workers and supervisors may switch to 1/2 face negative pressure respirators. If airborne asbestos levels reach a level of over 0.3 f/cc, PAPR's must again be utilized.

C. Protective Clothing

1. Disposable clothing including head, and foot protection shall be provided in sufficient quantities and adequate sizes for all workers and authorized visitors.
2. Launderable clothing, if required, shall be provided in sufficient quantities and adequate sizes for all workers and authorized visitors.
3. Hard hats, protective eyewear, gloves, rubber boots, and/or other footwear shall be provided as required for workers and authorized visitors. Safety shoes may be required for some activities.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Survey existing conditions and correlate with requirements indicated to determine extent of asbestos abatement required.
- B. Contractor to verify all quantities of ACM.

3.02 PREPARATION

- A. The Contractor shall post signs at all entrances to the job site, or 20 feet from the Work area at 30-foot intervals around the perimeter of the job site. 24-hour site security should be provided to eliminate unauthorized entry to the Work area.
- B. The Contractor will shut off and lock out all electric power feeding the job site. The Contractor will then provide temporary power together with ground fault circuit interrupters to supply the electrical needs of the project. The COUNTY will provide electrical power if able to be reconnected at the project site.
- C. All alterations to the Work area for purposes of containment set up or removal shall be the responsibility of the Contractor unless agreed upon previously with the COUNTY.
- D. The Contractor will shut down and lock out all HVAC systems that supply or pass through the Work area. Seal all vents with tape and two layers of six mil polyethylene (poly).
- E. The Contractor will arrange for sanitary facilities for abatement personnel outside the Work area and maintain them in a sanitary condition.
- F. The Contractor is responsible for providing water for project purposes.
- G. The Contractor will preclean all movable objects in the Work area and remove them to an uncontaminated area.
- H. The Contractor shall preclean all fixed objects and surfaces in the Work area. After precleaning, enclose fixed objects in at least six mil poly sheeting and seal securely with tape. Use the precleaning form in this specification to record the date, method, area, and identity of the supervisor.
- I. The Contractor shall cover floors in the work area with two layers of six mil poly. Floor material shall extend at least 12 inches up side walls. Seams that may allow leakage will be minimized and staggered.

- J. The Contractor shall cover walls in the work area with two layers of six mil containment material. Wall material shall overlap floor materials by at least 12 inches.
- K. The Contractor shall provide a worker decontamination system where workers will enter and exit the work area.

3.03 GENERAL PROCEDURES

A. Removal of ACM

1. Wet all asbestos containing material with water or an amended water solution using equipment capable of providing a fine spray mist, in order to reduce airborne fiber concentrations when the material is disturbed. Saturate the material, however, do not allow excessive water to accumulate in the Work area. Keep all removed material wet enough to prevent fiber release until it can be containerized for disposal. Wetting procedures are not equally effective on all types of asbestos containing materials but shall be used in all cases.
2. Saturated asbestos containing material shall be removed in manageable sections. Removed material should be containerized before moving to a new location for continuance of Work. Surrounding areas shall be periodically sprayed and maintained in a wet condition until visible material is cleaned up.
3. Material removed from each Work area shall not be dropped or thrown into disposal trucks or bins. Material should be removed as intact sections or components whenever possible and carefully lowered to the truck or bin container.
4. Each Work area shall be cleaned until it is free of ACM and/or contaminated debris or until approved by Consultant. Should any visible residue remain, including nails or staples, it will be assumed to be asbestos and the work area will be recleaned by the Contractor and reinspected. A visual inspection form will be signed by the Contractor and Consultant following passing of a visual inspection.
5. Following successful completion of the visual inspection, the Consultant will conduct PCM clearance air monitoring. Number and placement of clearance samples will be determined by the Consultant. All clearance samples will indicate concentrations of 0.01 fibers per cubic centimeter (f/cc) or lower with a 95% upper confidence limit for release of the work area for phase contrast analysis.
6. Areas exceeding 0.01 f/cc for phase contrast analysis will be recleaned and retested until satisfactory levels are measured.
7. After acceptable clearance sample levels have been achieved, the containment material may be removed. Exposed surface may then be wet cleaned or HEPA vacuumed as needed.

B. Disposal of ACM

1. As the Work progresses, to prevent exceeding available storage capacity on-site, sealed and labeled containers of asbestos containing waste shall be removed and transported to the prearranged disposal location.
2. Disposal must occur at an authorized site in accordance with regulatory requirements of NESHAPS and applicable state and local guidelines and regulations.
3. All Waste Shipment Records shall be delivered to the COUNTY. A recommended record keeping format utilizes the Waste Shipment Record (WSR) which includes

the names and addresses of the Generator (COUNTY), Contractor, Transporter, and Disposal Site, the estimated quantity of the asbestos waste and the type of containers used. The form should be signed by the Contractor, the Transporter and the Disposal Site Operator, as the responsibility for the material changes hands. Instructions can be found with the Waste Shipment Records.

4. The Contractor and Transporter should retain a copy of the WSR upon completing their portion of it. The Disposal Site Operator should retain a copy and return a completed copy to the Generator within 45 days of the ACM leaving the Project Area.
5. All ACM that is readied for transport must be labeled with the name of the waste generator and the location at which the waste was generated. The contractor is responsible for providing the label.
6. Once debris have been removed from the Work area, they shall be loaded into a lined or enclosed truck for transportation.
7. The enclosed cargo area of the truck shall be free of debris and lined with six mil poly sheeting to prevent contamination from leaking or spilled containers. Floor sheeting shall be installed first and extend up the side walls. Wall sheeting shall be overlapped and taped into place.
8. Any debris or residue observed on containers or surfaces outside of the Work area resulting from cleanup or disposal activities shall be immediately cleaned up using HEPA filtered vacuum equipment and/or wet methods as appropriate.

3.04 ABATEMENT PROCEDURES

A. Class I Work

1. Removal of Asbestos Containing Materials

- a. The Contractor shall wet all asbestos materials with amended water and saturate it to the substrate. Saturate the asbestos material sufficiently so that at no time will there be fiber release from dry asbestos. Misting or spraying may be used to assist in fiber settling.
- b. Immediately following removal, wet asbestos shall be packed into bags or drums. Seal containers and move them to the waste container airlock. Bags should not be overfilled. Asbestos waste with sharp components shall be contained in drums before removal from the Work area.
- c. Asbestos material shall not be dropped or thrown to the floor. Material should be removed as intact sections or components whenever possible and carefully lowered to the floor. If this cannot be done for materials greater than 50-feet above the floor, a dust-tight chute shall be constructed to transport the material to containers on the floor or the material may be containerized at elevated levels (e.g., on scaffolds) and carefully lowered to the ground by mechanical means. For materials between 15 and 50 feet above the ground, they may be containerized at elevated levels or dropped onto inclined chutes or scaffolding for subsequent collection and containerization.
- d. Bags of asbestos waste shall be removed from Work area at the end of each shift to prevent water leakage.
- e. Surfaces from which asbestos was stripped shall be brushed or hand cleansed until no visible asbestos residue remains.

- f. Special circumstances (e.g., live electrical equipment or live steam lines) may prohibit the adequate use of wet methods to reduce fiber concentrations. For these situations, a dry removal may be required. The contractor will have to acquire special permits, different from those mentioned herein from the NESHAP enforcement agency.
2. Clean-up Procedures
 - a. Collect and containerize all visible accumulations of asbestos containing materials and debris.
 - b. Wet clean all surfaces in the Work area using rags, mops, or sponges, as appropriate.
 - c. Remove all containerized waste from the Work area and waste container airlock.
 - d. Decontaminate and remove all unnecessary tools and equipment.
 - e. Inspect the Work area for visible residue. If any accumulation of residue is observed, it will be assumed to be asbestos and the Work area shall be recleaned.
 - f. Apply a thin coating of an encapsulating agent to all surfaces in the Work area to seal in non-visible residue. The Contractor shall verify the compatibility of any encapsulating agent with future replacement material.
 - B. Class II Asbestos Work - Flooring
 1. Resilient flooring shall be removed by wetting the sharp point where the material will be cut and during delamination. Rip-up of resilient flooring is prohibited.
 2. Mechanical chipping is prohibited unless performed in a NPE.
 3. Tiles shall be removed intact unless the employer demonstrates that intact removal is not possible.
 4. The regulated areas are to be established and all removal workers are to wear appropriate respirators and protective clothing.
 - C. Class II Asbestos Work - Roofing
 1. Roofing material shall be removed intact to the extent possible.
 2. Cutting machines shall be continuously misted during use, unless misting substantially decreases worker safety.
 3. All loose dust left from cutting operations must be immediately HEPA vacuumed.
 4. Unwrapped or unbagged roofing material must immediately be lowered to the ground via covered, dust-tight chute, crane or hoist, or wrapped in plastic sheeting and lowered to the ground no later than the end of the Work shift.
 5. Upon being lowered to the ground, unwrapped material shall be transferred to a closed receptacle in such a manner as to preclude the dispersion of dust.
 6. Roof level heating and ventilation air intake sources shall be isolated or the ventilation system shall be shut down.
 7. The regulated areas are to be established and all removal workers are to wear appropriate respirators and protective clothing.
 - D. Class II Asbestos Work - Siding, shingles, or transite panels

1. Cutting, abrading, or breaking of these materials shall be prohibited unless the employer can demonstrate that other methods less likely to release asbestos fibers cannot be used.
2. Each panel or shingle shall be sprayed with amended water prior to removal.
3. Unwrapped or unbagged panels or shingles must immediately be lowered to the ground via covered, dust-tight chute, crane or hoist, or wrapped in an impervious waste bag or wrapped in plastic sheeting and lowered to the ground no later than the end of the Work shift.
4. Nails shall be removed intact. If determined they are not able to be removed intact, Contractor may cut with flat, sharp instruments.
5. The regulated areas are to be established and all removal workers are to wear appropriate respirators and protective clothing.

E. Class II Asbestos Work - Gaskets

1. If a gasket is unlikely to be removed intact, removal shall be undertaken within a glovebag.
2. The gasket shall be thoroughly wetted with amended water prior to removal.
3. The wet gasket shall immediately be placed in a disposal container.
4. Any scraping to remove residue must be performed wet.
5. The regulated areas are to be established and all removal workers are to wear appropriate respirators and protective clothing.

F. Class II Asbestos Work - Other

1. The material must be thoroughly wetted with amended water prior to removal.
2. The material shall be removed in an intact manner unless the employer demonstrates that intact removal is not possible.
3. Cutting, abrading, or breaking of these materials shall be prohibited unless the employer can demonstrate that other methods less likely to release asbestos fibers cannot be used.
4. ACM removed, shall be immediately bagged or wrapped, or kept wetted until transferred to a closed receptacle, no later than the end of the Work shift.
5. The regulated areas are to be established and all removal workers are to wear appropriate respirators and protective clothing.

G. Class III Asbestos Work

1. Work shall be performed using wet methods.
2. To the extent feasible, the Work shall be performed using local exhaust ventilation.
3. Where the disturbance involves drilling, cutting, abrading, sanding, chipping, breaking, or sawing of TSI or surfacing material, the employer shall use impermeable drop cloths, and shall isolate the area using mini-containments or glovebags.
4. The employer shall contain the area using impermeable drop cloths and plastic barriers or their equivalent, or shall build an NPE.
5. The regulated areas are to be established and all removal workers are to wear

appropriate respirators and protective clothing.

H. Class IV Asbestos Work

1. ACM or PACM debris will be promptly cleaned using wet methods and/or HEPA vacuuming.
2. The regulated areas are to be established and all removal workers are to wear appropriate respirators and protective clothing.
3. In areas where friable TSI or surfacing materials are located, waste and debris must be assumed to contain asbestos.

3.05 GLOVEBAG PROCEDURES

- A. Glovebagging may not be performed on pipes whose temperature exceeds 150 degrees Fahrenheit.
- B. The regulated areas are to be established and all removal workers are to wear appropriate respirators and protective clothing
- C. At least two persons shall perform the work on each individual glovebag.
- D. A protective shroud of at least six mil poly shall be placed under the glovebag area. A plastic barrier shall be utilized if the glovebag area is occupied.
- E. Loose and friable material adjacent to the glovebag is to be wrapped and sealed in two layers of six mil poly.
- F. Glove bags must be installed so that they completely cover the pipe or other structure where asbestos removal work is to be done. Glove bags shall be installed by cutting the sides of the glove bag to fit the size of the pipe form which asbestos is to be removed. The glove bag is attached to the pipe by folding the open edges together, stapling them, and securely sealing them with tape. All openings in the glove bag must be sealed with duct tape or equivalent to prevent any leakage from the bag.
- G. Each glove bag is to be smoke tested after installation on the pipe prior to beginning removal. Smoke testing will be done by the Consultant by inserting the smoke tube through a small hole in the glove bag. The glove bag is then filled with smoke, the tube is removed, and the hole patched with duct tape. The glove bag is then squeezed. If smoke escapes from the glove bag, the leak is to be sealed. Removal may begin after approval by Consultant.
- H. The employees who are performing the asbestos removal with the glove bag must don at least a half mask dual-cartridge HEPA filtered respirator and wear disposable protective clothing. Respirators should be worn by employees who are in close contact with the glove bag and who may thus be exposed as a result of small gaps in the seams of the bag or holes punched through the bag by a razor knife or a piece of wire mesh.
- I. A HEPA filtered vacuum is to be inserted into the glovebag and left running continuously during the glovebag removal.
- J. The material to be removed must be adequately wetted with a wetting agent prior to removal. The removed asbestos material from the pipe or other surface must be thoroughly wetted with a wetting agent (applied with a sprayer wand inserted through a small hole cut in the bag with an airtight seal).
- K. A wetting agent must then be used to spray any layer of dry material that is exposed beneath the mesh, the surface of the stripped underlying structure, and the inside of the

glove bag.

- L. After removal of the layer of asbestos containing material, the pipe or surface from which asbestos has been removed must be thoroughly cleaned with a brush and wet wiped with a wetting agent until no traces of the asbestos containing material can be seen.
- M. Any asbestos containing insulation edges that have been exposed as a result of the removal or maintenance activity must be encapsulated with bridging encapsulant to ensure that the edges do not release asbestos fibers to the atmosphere after the glove bag has been removed.
- N. When the asbestos removal and encapsulation have been completed, the bag may be removed from the pipe and sealed with tape to keep the asbestos materials safely in the bottom of the bag. The glove bag must then be double bagged in a labeled six mil bag, sealed, and removed from the work area to be disposed of properly.

3.06 SCOPE OF WORK

A. Fire Door Insulation Removal

1. Remove the asbestos containing fire door insulation. All asbestos removal Work is to be done as per this specification. The Contractor is to remove all movable objects in the containment area. All objects which must remain in the containment areas are to be sealed with a minimum of one layer of six mil poly. The containments must have a minimum of four air changes per hour and a differential pressure of 0.02 column inches of water. A single cell decontamination unit must be attached to the containment.

The asbestos containing material is to be wetted before and during removal. The fire doors are to be removed intact to the extent possible. The asbestos containing material must immediately be placed in six mil poly bags with the appropriate OSHA, DOT, and waste generator labels affixed. If the contractor is using barrels, barrels must be cleaned prior to removal from the contained area. The asbestos containing material is to be disposed of at an approved landfill.

The Contractor is responsible for cleaning up the ACM debris in the removal area by wet methods, HEPA-filtered vacuums, or a combination of each. All waste materials generated by cleaning activities must be properly packaged, labeled, and properly disposed of at an approved landfill that accepts asbestos waste materials

B. Linoleum Removal

1. Remove the asbestos containing linoleum. All asbestos removal Work is to be done as per this specification. The Contractor is to remove all movable objects in the containment area. All objects which must remain in the containment areas are to be sealed with a minimum of one layer of six mil poly. The containments must have a minimum of four air changes per hour and a differential pressure of 0.02 column inches of water. A single cell decontamination unit must be attached to the containment.

The asbestos containing material is to be wetted before and during removal. The linoleum is to be removed intact to the extent possible. The asbestos containing material must immediately be placed in six mil poly bags with the appropriate OSHA, DOT, and waste generator labels affixed. If the contractor is using barrels, barrels must be cleaned prior to removal from the contained area. The asbestos containing material is to be disposed of at an approved landfill.

The Contractor is responsible for cleaning up the ACM debris in the removal area by wet methods, HEPA-filtered vacuums, or a combination of each. All waste materials generated by cleaning activities must be properly packaged, labeled, and properly disposed of at an approved landfill that accepts asbestos waste materials

C. Ceiling Tile Removal (Dispose of Track)

1. Remove the asbestos containing ceiling tile. All asbestos removal work is to be done as per this specification. The Contractor is to remove all movable objects in the containment area. All objects which must remain in the containment areas are to be sealed with a minimum of one layer of six mil poly. The containments must have a minimum of four air changes per hour and a differential pressure of 0.02 column inches of water. A full three chamber decontamination unit must be attached to the containment.

The floor(s) in the containment area are to have a minimum of two layers of six mil poly. The walls are to have a minimum of two layers of four mil poly.

The asbestos containing material is to be wetted before and during removal. The linoleum is to be removed intact to the extent possible. The asbestos containing material must immediately be placed in six mil poly bags with the appropriate OSHA, DOT, and waste generator labels affixed. If the contractor is using barrels, barrels must be cleaned prior to removal from the contained area. The asbestos containing material is to be disposed of at an approved landfill.

The Contractor is responsible for cleaning up the ACM debris in the removal area by wet methods, HEPA-filtered vacuums, or a combination of each. All waste materials generated by cleaning activities must be properly packaged, labeled, and properly disposed of at an approved landfill that accepts asbestos waste materials

D. Sink Insulation Removal

1. Remove the asbestos containing sink insulation. All asbestos removal Work is to be done as per this specification. The Contractor is to remove all movable objects in the containment area. All objects which must remain in the containment areas are to be sealed with a minimum of one layer of six mil poly. The Contractor is to drape one layer of six mil poly on the ground immediately underneath the removal area. The containments must have a minimum of four air changes per hour and a differential pressure of 0.02 column inches of water. A single cell decontamination unit must be attached to the containment.

The asbestos containing material is to be wetted before and during removal. The sink and insulation is to be removed intact to the extent possible. The asbestos containing material must immediately be placed in six mil poly bags with the appropriate OSHA, DOT, and waste generator labels affixed. If the contractor is using barrels, barrels must be cleaned prior to removal from the contained area. The asbestos containing material is to be disposed of at an approved landfill.

The Contractor is responsible for cleaning up the ACM debris in the removal area by wet methods, HEPA-filtered vacuums, or a combination of each. All waste materials generated by cleaning activities must be properly packaged, labeled, and properly disposed of at an approved landfill that accepts asbestos waste materials

E. Floor Tile Removal

1. Remove the asbestos containing floor tile. All asbestos removal Work is to be done

as per this specification. The Contractor is to remove all movable objects in the containment area. All objects which must remain in the containment areas are to be sealed with a minimum of one layer of six mil poly. The containments must have a minimum of four air changes per hour and a differential pressure of 0.02 column inches of water. A single cell decontamination unit must be attached to the containment.

The asbestos containing floor tile is to be wetted before and during removal. The floor tile is to be removed in an intact manner if possible. The asbestos containing material must immediately be placed in six mil poly bags with the appropriate OSHA, DOT, and waste generator labels affixed. If the contractor is using barrels, barrels must be cleaned prior to removal from the contained area. The asbestos containing material is to be disposed of at an approved landfill.

The Contractor is responsible for cleaning up the ACM debris in the removal area by wet methods, HEPA-filtered vacuums, or a combination of each. All waste materials generated by cleaning activities must be properly packaged, labeled, and properly disposed of at an approved landfill that accepts asbestos waste materials

F. Roof Paper Removal

1. Remove the asbestos containing roof paper. All asbestos removal Work is to be done as per this specification. The asbestos containing material is to be wetted before and during removal. The roof paper is to be removed intact to the extent possible. Roof level heating and ventilation air intake sources shall be isolated, or the ventilation system shall be shut down.

Cutting machines shall be continuously misted during use, unless misting substantially decreases worker safety. All loose dust left from cutting operations must be immediately HEPA vacuumed. Unwrapped or unbagged roofing material must immediately be lowered to the ground via covered, dust-tight chute, crane or hoist, or wrapped in plastic sheeting and lowered to the ground no later than the end of the Work shift. Upon being lowered to the ground, unwrapped material shall be transferred to a closed receptacle in such a manner as to preclude the dispersion of dust.

The asbestos containing material must immediately be placed in six mil poly bags with the appropriate OSHA, DOT, and waste generator labels affixed. If the contractor is using barrels, barrels must be cleaned prior to removal from the contained area. The asbestos containing material is to be disposed of at an approved landfill.

The Contractor is responsible for cleaning up the ACM debris in the removal area by wet methods, HEPA-filtered vacuums, or a combination of each. All waste materials generated by cleaning activities must be properly packaged, labeled, and properly disposed of at an approved landfill that accepts asbestos waste materials

G. Roof Paper Removal

1. Remove the asbestos containing roof paper. All asbestos removal Work is to be done as per this specification. The asbestos containing material is to be wetted before removal. The roof paper is to be removed intact to the extent possible. Roof level heating and ventilation air intake sources shall be isolated, or the ventilation system shall be shut down.

Cutting machines shall be continuously misted during use, unless misting substantially decreases worker safety. All loose dust left from cutting operations must be immediately HEPA vacuumed. Unwrapped or unbagged roofing material must

immediately be lowered to the ground via covered, dust-tight chute, crane or hoist, or wrapped in plastic sheeting and lowered to the ground no later than the end of the Work shift. Upon being lowered to the ground, unwrapped material shall be transferred to a closed receptacle in such a manner as to preclude the dispersion of dust.

The asbestos containing material must immediately be placed in six mil poly bags with the appropriate OSHA, DOT, and waste generator labels affixed. If the contractor is using barrels, barrels must be cleaned prior to removal from the contained area. The asbestos containing material is to be disposed of at an approved landfill.

The Contractor is responsible for cleaning up the ACM debris in the removal area by wet methods, HEPA-filtered vacuums, or a combination of each. All waste materials generated by cleaning activities must be properly packaged, labeled, and properly disposed of at an approved landfill that accepts asbestos waste materials

H. Caulking / Expansion Joint Compound Removal

1. Remove the asbestos containing caulking/expansion joint compound. All asbestos removal Work is to be done as per this specification. The Contractor is to drape one layer of six mil poly on the ground immediately underneath the removal area. The poly is to be draped in such a manner as to catch any asbestos debris that may be caused by the removal process.

The asbestos containing material is to be wetted before and during removal. All of the asbestos containing material which is removed is to be appropriately double bagged or double wrapped in six mil poly. The disposal bags or poly are to be appropriately labeled with OSHA, DOT, and waste generator labels. All asbestos containing material is to be properly disposed of at an approved landfill.

The asbestos containing material must immediately be placed in six mil poly bags with the appropriate OSHA, DOT, and waste generator labels affixed. If the contractor is using barrels, barrels must be cleaned prior to removal from the contained area. The asbestos containing material is to be disposed of at an approved landfill.

The Contractor is responsible for cleaning up the ACM debris in the removal area by wet methods, HEPA-filtered vacuums, or a combination of each. All waste materials generated by cleaning activities must be properly packaged, labeled, and properly disposed of at an approved landfill that accepts asbestos waste materials

I. Thermal System Insulation Removal In-Containment

1. Remove the asbestos containing thermal system insulation. All asbestos removal Work is to be done as per this specification. The Contractor is to remove all movable objects in the containment area. All objects which must remain in the containment areas are to be sealed with a minimum of one layer of six mil poly.

The Contractor is to seal all critical barriers. Any HVAC critical barriers are to be sealed with a minimum of two layers of six mil poly applied as described in this specification. The walls are to have a minimum of two layers of at least six mil poly applied as described in this specification. The floors are to have a minimum of two layers of six mil poly applied as described in this specification. The containment must have a minimum of four air changes per hour and a differential pressure of 0.02 column inches of water. A full three chamber decontamination unit must be attached to the containment.

The asbestos containing material is to be wetted before and during removal. The

asbestos containing material must immediately be placed in six mil poly bags with the appropriate OSHA, DOT, and waste generator labels affixed. If the contractor is using barrels, barrels must be cleaned prior to removal from the contained area. The asbestos containing material is to be disposed of at an approved landfill.

The Contractor is responsible for cleaning up the ACM debris in the removal area by wet methods, HEPA-filtered vacuums, or a combination of each. All waste materials generated by cleaning activities must be properly packaged, labeled, and properly disposed of at an approved landfill that accepts asbestos waste materials

J. Overhang Concrete Board

1. Remove the asbestos containing overhang concrete board. All asbestos removal Work is to be done as per this specification.

The asbestos containing material is to be wetted before and during removal. The overhang concrete board is to be removed in an intact manner. The Contractor is to drape one layer of six mil poly on the ground around the perimeter of the building beneath the overhang concrete board. The poly is to be draped in such a manner as to catch any asbestos debris that may be caused by the removal process. Nail or staples shall be removed intact. If determined they are not able to be removed intact, the Contractor may cut with flat, sharp instruments.

The asbestos containing material is to be wetted before and during removal. The asbestos containing material must immediately be placed in six mil poly bags with the appropriate OSHA, DOT, and waste generator labels affixed. If the contractor is using barrels, barrels must be cleaned prior to removal from the contained area. The asbestos containing material is to be disposed of at an approved landfill.

The Contractor is responsible for cleaning up the ACM debris in the removal area by wet methods, HEPA-filtered vacuums, or a combination of each. All waste materials generated by cleaning activities must be properly packaged, labeled, and properly disposed of at an approved landfill that accepts asbestos waste materials

END OF SECTION

SECTION 31 10 00
SITE CLEARING

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Protecting existing vegetation to remain.
 - 2. Removing existing vegetation.
 - 3. Clearing and grubbing.
 - 4. Stripping and stockpiling topsoil.
 - 5. Removing above and below grade site improvements.
 - 6. Disconnecting, capping or sealing, and removing site utilities.
 - 7. Temporary erosion- and sedimentation-control measures.
- B. Related Sections
 - 1. Section 01 10 00 – Summary
 - 2. Section 01 50 00 – Temporary Facilities and Controls
 - 3. Section 02 41 00 – Demolition

1.02 MEASUREMENT AND PAYMENT

- A. Work specified in this section is included in the lump sum contract price.

1.03 DESCRIPTION

- A. For this project, the site will need to be cleared of existing utilities. Vegetation to remain and known utilities are identified on the Drawings.
- B. Utilize Iowa Utility One-Call at 800 292 8989 or 811 for locates for those utilities which subscribe to this service.
- C. Do not commence site clearing operations until temporary erosion control and plant protection measures are in place.
- D. Soil stripping, handling, and stockpiling shall be performed only when the topsoil is dry or slightly moist.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

3.01 VEGETATION

- A. Locate and clearly identify trees to remain. Flag tree trunks at 54 inches above the ground.

3.02 EXISTING UTILITIES

- A. Contractor will arrange for disconnecting and sealing utilities that serve existing structures before site clearing.
- B. Locate, identify, disconnect, and seal or cap utilities indicated to be removed. Verify utilities are sealed or capped prior to proceeding with site clearing.
- C. Excavate for and remove underground utilities indicated to be removed.

END OF SECTION

SECTION 31 23 00
EXCAVATION AND FILL

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Excavation.
 - 2. Fill material.
 - 3. Site grading.
 - 4. Topsoil.
 - 5. Seeding.
- B. Related Sections
 - 1. Section 01 10 00 – Summary
 - 2. Section 01 50 00 – Temporary Facilities and Controls
 - 3. Section 02 41 00 – Demolition
 - 4. Section 31 10 00 – Site Clearing

1.02 MEASUREMENT AND PAYMENT

- A. Work specified in this section is included in the lump sum contract price.

1.03 SUBMITTALS

- A. Product data for each type of product indicated.
- B. Certification of grass seed from seed vendor for each grass-seed mono-stand or mixture stating the botanical and common name and percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.
- C. Product certificates for fertilizers, signed by product manufacturer.
- D. Planting schedule indicating anticipated planting dates for each type of planting.

1.04 DESCRIPTION

- A. Contractor is responsible for excavation of the site and backfilling voids. Backfill must consist of appropriate materials. Contractor is responsible for the final grading, addition of topsoil, and seeding.

1.05 QUALITY ASSURANCE

- A. Deliver grass seed mixture in original, sealed, labeled, containers. Seed in damaged packaging is not acceptable.
- B. Proceed with planting only when existing and forecasted weather conditions permit.
- C. Guarantee seeded area for duration of one year after seeding to be alive and in satisfactory growth at end of guarantee period.

1. For purpose of establishing acceptable standard, scattered bare spots, none larger than 1 square foot will be allowed up to maximum of 3% seeded area.
 2. Acceptance will be based upon meeting this standard one year after substantial completion or after reseeding.
 3. No weed seeds allowed. If excessive weeds grow, Contractor may be required to spray and reseed at COUNTY'S discretion.
 4. During the warranty period, correct and reseed as originally specified, any defects in the seeded areas and grass stand, such as weedy areas, eroded areas, and bare spots, until all affected areas are accepted by the Engineer.
 5. Areas reseeded under the warranty shall be warranted for an additional one-year period.
- D. The following ASTM International standards may be referenced in this section.
1. D698, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lb/ft³ (600 kN-m/m³)).
 2. D4253, Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Fill material may consist of approved material acquired from excavations or material hauled from off-site sources.
1. Low plasticity cohesive soil characterized as lean clay free of rubble and organic material.
 2. On-site topsoil material is material excavated from the top 12 inches of the site.
- B. Suitable material identified on-site shall be used first for backfill.
- C. Excess excavated native soils which are not used as backfill shall become the property of the Contractor and shall be disposed of off-site by the Contractor in a location.
- D. Provide fresh, clean, new crop, certified seed complying with tolerance for germination and purity and free of poa annua, bent grass, and noxious weed seed. Furnish all seeds from an established seed dealer or certified seed grower. All materials and suppliers are to follow Iowa Seed Law and Iowa Department of Agriculture and Land Stewardship regulations.
1. Use fertilizer of the grade, type, and form specified that complies with rules of the Iowa Department of Agriculture and Land Stewardship.
 2. Use a sticking agent that is a commercial material recommended by the manufacturer to improve adhesion of inoculant to the seed. For small quantities less than 50 pounds, the sticking agent need not be a commercial agent, but it must be approved by the Consultant and must be applied separately, prior to application of inoculant.
 3. Mulch may only consist of the following options:

- a. Straw mulch: provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.
- b. Fiber mulch: biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic; free of plant-growth or germination inhibitors; with maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.
- c. Non-asphaltic tackifier: colloidal tackifier recommended by fiber-mulch manufacturer for slurry application; nontoxic and free of plant-growth or germination inhibitors.

PART 3 EXECUTION

3.01 GENERAL EXCAVATION

- A. Excavation operations shall be conducted so that material outside of Work area will not be disturbed.
- B. All excess suitable material excavated from the site and not used for backfill shall be removed from the site and become property of the Contractor.

3.02 BACKFILL

- A. Scarify existing material within 8 inches of top of backfill elevation.
- B. Excavation must be backfilled and graded to drain immediately after demolition and excavation phases are completed.
- C. Excavation areas shall not sit empty nor allow stormwater to collect in excavated areas.
- D. Compacted backfill shall be placed to 4" below finished grade.

3.03 GRADING

- A. 4" topsoil shall be placed and fine graded to match existing site grade at the edges of the site. Grade shall be restored to original drainage or such as to not allow accumulation of precipitation.

3.04 SEEDING

- A. Seed mix shall be permanent contractor seed mix applied by seed drill with a no till attachment or a hydraulic-seeding.
- B. Provide mulch and water to establish an acceptable stand of grass.
 - 1. Use enough water to keep the soil and mulch moist to a depth of 1 inch and ensure growth of the seed. For turfgrass seeding areas, sufficiently water to keep the soil moist for a minimum of 21 days. If natural rainfall is adequate to keep the soil and mulch moist, artificial watering may not be needed.

END OF SECTION



ADDENDUM NO. 1

**Demolition of Prairie Hills County Home at
1600 County Home Road, Sergeant Bluff, IA 51054
QUEST Project #8237935**

July 20, 2022

NOTICE

This Addendum is issued to modify, explain or correct the original drawings, specifications and/or previous addendums and is hereby made a part of the Contract Documents. Please attach this Addendum to the contract documents in your possession. Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

The following changes have been made to the Project Manual:

**SECTION 00 10 00 – NOTICE TO BIDDERS
Time for Commencement and Completion of Work**

UPDATE:

The project completion date will be November 8, 2022.

**SECTION 00 41 00 – BID FORMS
PROPOSAL: PART D - GENERAL**

UPDATE:

The project completion date will be November 8, 2022.

**SECTION 00 50 00 – CONTRACTING FORMS AND SUPPLEMENTS
Page 1 – last line**

UPDATE:

The project completion date will be November 8, 2022.

**SECTION 01 10 00 – SUMMARY
1.04 COMLETION TIME**

UPDATE:

A. The project completion date will be November 8, 2022.

SECTION 00 61 00 – BOND FORMS

UPDATE:

Added Bid Bond signature page after page 2 within the Section. Updated Section 00 61 00 BOND FORMS is attached.



SECTION 00 41 00 – BID FORMS
Page 4 – PROPOSAL ATTACHMENT PART C

UPDATE:

Added a bid alternative below the BASE BID table. The bid alternate is a DEDUCT ALTERNATE allowing for the completion of the project by February 1, 2023. The base bid project completion date is November 8, 2022. Updated Section 00 41 00 BID FORMS is attached.

SECTION 00 41 00 – BID FORMS
Page 5 – PROPOSAL ATTACHMENT PART C - ASBESTOS CONTAINING MATERIAL LIST

UPDATE:

The asbestos content for Sample # 34 (2' x 2' Ceiling Tile) in the Asbestos Containing Material List is 1.25% Chrysotile instead of <1% Chrysotile. Updated Section 00 41 00 BID FORMS is attached.

SECTION 00 41 00 – BID FORMS
Page 5 – ASBESTOS CONTAINING MATERIAL LIST


UPDATE:

Added Mudded Fitting (sample 111C) to the Asbestos Containing Material List based on the lab results of samples collected on July 14, 2022. Large diameter mudded fittings (~8 inch) in the boiler room were identified as containing 5% Chrysotile. The estimated quantity is 18 large diameter mudded fittings. A photo of a large diameter mudded fitting is attached. Updated Section 00 41 00 BID FORMS is attached.

Additional Information

1. Progress meetings will be held on an as needed basis.
2. Payment Clarification: Once a bid line item is complete, notify Impact7G. Impact7G will review/verify completion and submit information to County for payment. Payment request received on/by Wednesday will be addressed during the following Tuesday County Board of Supervisor's meeting.
3. Block walls were broken during the bid walkthrough and no insulation was discovered within the walls.
4. The updated Section 00 41 00 BID FORMS is attached.
5. The updated Section 00 61 00 BOND FORMS is attached.

Photograph table includes photos of all asbestos-containing materials.

<p>7/14/22 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1600 County Home Road Sergeant Bluff, Iowa</p>
<p>Description:</p> <p>ACM White Mudded Fitting, Basement Boiler Room, Large Diameter Pipe</p> <p>Sample 111C</p> <p>Photo #1</p>	

APPENDIX 1 – Hazardous Materials Inspection Report

APPENDIX 2 – Asbestos Containing Materials Inspection Report

APPENDIX 3 – Asbestos Diagrams and Field Forms

**APPENDIX 4 – Iowa DNR 10-Day
Notification Form**

APPENDIX 5 – Bid Plans

**APPENDIX 6 – Woodbury County Home
Blueprints – 1980**

APPENDIX 1 – Hazardous Materials Inspection Report

HAZARDOUS MATERIALS INVENTORY



**Prairie Hills Center
1600 County Home Road
Sergeant Bluff, IA 51054**

Prepared for:
**Woodbury County
401 8th Street
Sioux City, IA 51101**

Prepared by:



**9550 Hickman Road, Suite 105
Clive, IA 50325**

December 9, 2021



HAZARDOUS MATERIALS INVENTORY

Prairie Hills Center
1600 County Home Road
Sergeant Bluff, IA 51054

Inspected and Prepared by:

A handwritten signature in black ink, appearing to read "Matt E.", with a horizontal line extending to the right from the end of the signature.

Senior Project Manager

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APPENDICES

- APPENDIX 1 – Aerial Photograph
- APPENDIX 2 – Hazardous Materials Inventory
- APPENDIX 3 – Site Photographs

1.0 EXECUTIVE SUMMARY

Impact7G, Inc. (Impact7G), performed a Hazardous Materials Inventory on November 18, 2021, of the designated buildings located at 1600 County Home Road, Sergeant Bluff, IA 51054 (Property). The purpose of this hazardous materials inventory is to document the presence of hazardous materials and assist Woodbury County (Client) in facilitating the demolition of the buildings.

The buildings were inspected for:

- Universal Waste
- PCB-Containing Equipment
- Products containing hazardous materials
- Other items of environmental concern

Hazardous materials were documented at the Property during this inspection. Appendix 2 of this report identifies the items that require attention before demolition.

2.0 INTRODUCTION

Property Information

Prairie Hills
1600 County Home Road
Sergeant Bluff, IA 51054

Client Information

Kenny Schmitz
401 8th Street
Sioux City, IA 51101
Office: 712-279-6539 / 712-253-3745
Email: kschmitz@woodburycountyiowa.gov

Personnel

Project Manager: Matt Deutsch, CSP, CHMM
Inspector: Matt Deutsch, CSP, CHMM

Inspection Plan

Inspect the designated structure for the presence of hazardous materials including universal waste (batteries, lamps, mercury-containing equipment, aerosol cans), PCB-containing equipment and materials, low-level radioactive materials, CFC-containing equipment, building components, products containing hazardous materials, and other items of environmental concern.

3.0 PROPERTY DESCRIPTION

The scope of the project included inspection of the former county residential home, the training facility, and the maintenance/mechanical space. The previous use of the buildings included a residential facility, inmate detention space, and a law enforcement training facility.

4.0 INSPECTION LIMITATIONS

An inspection limitation, for this report, is any action or task that is limited from the original scope of work. The overall reason for any limitation is the protection of Impact7G personnel. Examples

of limitations can range from a lack of accessibility to an area of the Property, unsafe work areas, collecting additional samples, etc.

The scope of this inspection was limited to the county home, training center, mechanical/maintenance structures, and the property grounds in the immediately adjacent area. Impact7G encountered some locked doors in the county home building and was unable to complete the inventory for those spaces. No other limitations were encountered.

5.0 INSPECTION ACTIVITIES

Impact7G inspectors completed the facility inventory on November 18, 2021, with all work performed under the guidance of a Certified Hazardous Materials Manager (CHMM). The inspection process included visually inspecting each interior space (room, hallway, entryway, and/or stairwell) within the structure as well as the structure exterior. Appendix 2 contains a list of hazardous building materials and abandoned chemicals. Where possible, the material name, quantity, container size, physical state, and container type were noted. Impact7G did not perform any testing to attempt to identify any unknowns.

Universal Waste

Batteries

Thirteen (13) batteries (deep cycle, rechargeable, and interruptible power supplies) were identified as part of the inspection. Also, forty-five (45) wall-mounted emergency lighting units were identified, which likely still contain lead-acid batteries. These should be removed before demolition and managed as universal waste.

Thermostats

Forty-one (41) thermostats and control switches were identified during the inspection. All thermostats should be inspected before disposal to verify the presence/absence of mercury and managed as universal waste.

Fluorescent Lamps

Approximately 1,171 fluorescent lamps (potentially mercury-containing) were identified during the inspection. An additional 24 HID lamps were identified in the gymnasium, maintenance shop, and building exterior. These should be removed without breakage before the removal of fixtures and managed as universal waste.

PCB-containing Equipment and Materials

Fluorescent Lamp Ballasts

Approximately 358 fluorescent lamp ballasts were identified during the inspection. The ballasts were not readily accessible during the survey because they were internally mounted. All ballasts should be inspected before disposal to verify the presence or absence of PCBs. Ballasts should be assumed to be PCB-containing unless specified by the manufacturer's label as containing "No PCBs".

Electrical Transformers

One (1) large electrical transformer was observed during the inspection. No additional information was available as the unit was secured with a padlock. The unit should be inspected before disposal to verify the presence/absence of PCBs.

Hazardous Materials

Low-Level Radioactive Materials

Forty-five (45) illuminated exit signs were identified. Not all signs were evaluated for the presence of tritium, thus all illuminated exit signs should be inspected before disposal.

Sixty-five (65) smoke detectors were identified. There are numerous differing kinds and types of units which should be evaluated for the presence of low-level radioactive materials or batteries before disposal.

CFC Containing Equipment

Thirty-five (35) refrigeration, ice makers, and air conditioning units were identified which are likely to contain chlorofluorocarbons (CFCs). Each unit should also be assumed to contain compressor oil and refrigerant.

Storage Tanks

At the time of the inspection, there was one (1) 250-gallon aboveground storage tank identified. This tank requires triple-rinse cleaning before disposal at a permitted facility.

Other Items of Concern

The inspection also identified:

- 6 appliances (washer, dryers, oven, water heaters, and dehumidifiers)
- 5 microwave ovens
- 21 cathode ray tube (CRT) monitors/televisions
- 11 portable fire extinguishers
- 1 kitchen fire suppression system (charged)
- 1 X-ray inspection unit
- 1 hydraulic operated elevator
- 4 vessels larger than 100 gallons (boilers, pressure tanks, and a 500-gallon diesel fuel tank)
- Abandoned hazardous chemicals in various sizes, quantities, and chemical hazards

6.0 CONCLUSIONS / RECOMMENDATIONS

The following conclusions and recommendations are summarized as follows:

- Hazardous materials were identified throughout the structures inspected at 1600 County Home Road, Sergeant Bluff, IA 51054. Items include materials that are classified as hazardous building materials/items (CFCs, batteries, fuel/storage tanks, hydraulic fluids, dielectric fluids, products containing mercury, radioactive materials, appliances and electronic materials, and waste oil). The facility also contains numerous abandoned chemicals (compressed gases, flammable liquids, toxics, and corrosives). Based on the results of the data collected during the inspection, the structures require further action before demolition.

Impact7G recommends the removal of all hazardous materials located within the structures slated for demolition. All handling, packaging, temporary storage, and transportation to a permitted disposal facility shall be completed per all local, state, and federal regulations designed to protect human health and the environment. A visual inspection is recommended upon completion of removal work to document that all hazardous materials within the scope of the project have been removed.

7.0 CONDITIONS & LIMITATIONS

The United States Environmental Protection Agency (EPA) requires hazardous waste generators to complete and submit EPA Form 8700-23 to obtain an EPA ID number. Short-term construction or demolition qualifies as an episodic event, which cannot last more than 60 days beginning on the first day episodic hazardous waste is generated and concluding on the day the hazardous waste is removed from the generator's site.

Impact7G has performed the tasks contained within this report in a thorough and professional manner consistent with commonly accepted standard industry practices. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our survey of the property. Impact7G cannot guarantee and does not warrant, that this report has identified all adverse environmental factors and/or conditions affecting the subject property. This report is not a bidding document or project specification as it does not contain the necessary components. Impact7G cannot warrant the work of any third party that may have aided in the completion of this report. This report has been prepared on behalf of and exclusively for use by the City of Ames for specific application to their project as discussed. Contractors, consultants, or other third parties reviewing this report must draw their own conclusions regarding data contained within the report, further investigation, or required remediation.

APPENDIX 1
Aerial Photograph



Aerial Photograph
1600 County Home Road
Sergeant Bluff, IA 51054

APPENDIX 2
Hazardous Materials Inventory

TABLE 1 - HAZARDOUS BUILDING MATERIALS AND EQUIPMENT

Product Name/Description	Quantity	Comments
Appliances	6	Washer, dryers, water heaters, dehumidifier
Batteries	13	
Biohazard	2	Containers of used urine sample cups
CFC Units	35	Air conditioners, refrigeration units, ice makers
CRT Monitors	21	Computer monitors & televisions
Emergency Lights	17	
Elevator	1	Hydraulic operated
Exit Signs	45	
Fire Extinguishers	12	Included kitchen fire suppression system
Lamp, Ballasts	358	
Lamp, Fluorescent	1,171	
Lamp, HID	24	
Mercury Devices/Suspect Devices	41	Thermostats & controls
Microwaves	5	
PCB Devices/Suspect Devices	1	Exterior transformer
Radioactive Devices; Smoke Detectors	65	
Radioactive Devices; X-Ray	1	
Vessels larger than 100 Gallons	4	Boilers, pressure tanks and 500g diesel AST

TABLE 2 - ABANDONED CHEMICALS

Product Name/Description	Quantity	Container Size	Physical State	Material	Hazard Class
3M General Trimming Adhesive	1	18.1 oz	Aerosol	Aerosol Can	2: Compressed Gas
Acetylene	1	35 lbs	Gas	Gas Cylinder	2: Compressed Gas
All purpose Fast Dry Enamel	1	12 oz	Aerosol	Aerosol Can	2: Compressed Gas
Backwoods insect repellent	1	6 oz	Aerosol	Aerosol Can	2: Compressed Gas
Barfix Hysan Germicidal Spray	1	16 oz	Aerosol	Aerosol Can	2: Compressed Gas
Betco GLYBET Disinfectant	23	16 oz	Aerosol	Aerosol Can	2: Compressed Gas
Betco TB Plus Spray Disinfectant	2	15.5 oz	Aerosol	Aerosol Can	2: Compressed Gas
Bonide Wasp and Hornet Killer	2	15 oz	Aerosol	Aerosol Can	2: Compressed Gas
Claire Cinnamon Air freshener	1	10 oz	Aerosol	Aerosol Can	2: Compressed Gas
Claire Citrus Cream Air Freshener	2	10 oz	Aerosol	Aerosol Can	2: Compressed Gas
Claire Disinfectant Bathroom Cleaner	11	19 oz	Aerosol	Aerosol Can	2: Compressed Gas
Claire Dust Up	1	14 oz	Aerosol	Aerosol Can	2: Compressed Gas
Cong-r dust	2	17 oz	Aerosol	Aerosol Can	2: Compressed Gas
Coppertone sunscreen	2	7.5 oz	Aerosol	Aerosol Can	2: Compressed Gas
Ecolab 81-50 Pesticide	2	12 oz	Aerosol	Aerosol Can	2: Compressed Gas
Janitor Depot Glass Cleaner	1	19 oz	Aerosol	Aerosol Can	2: Compressed Gas
KingCo Duct Line Spray Adhesive	1	14 oz	Aerosol	Metal	2: Compressed Gas
Liceanator Aerosol Lice Killer	6	13 oz	Aerosol	Aerosol Can	2: Compressed Gas
MAP Pro	1	16 OZ	Gas	Gas Cylinder	2: Compressed Gas
Off! Bug spray	2	6 oz	Aerosol	Aerosol Can	2: Compressed Gas
Off! Deep woods	1	6 oz	Aerosol	Aerosol Can	2: Compressed Gas
Off! Deep woods	1	12 oz	Aerosol	Aerosol Can	2: Compressed Gas
Oxygen	1	50 lbs	Gas	Gas Cylinder	2: Compressed Gas
Pledge Furniture Polish	1	12.5 oz	Aerosol	Aerosol Can	2: Compressed Gas
Raid Flying Insect Killer	1	12 oz	Aerosol	Aerosol Can	2: Compressed Gas
Rust-Oleum High Performance Enamel	1	15 oz	Aerosol	Aerosol Can	2: Compressed Gas
Spartan F-6 Flying insect killer	1	15 oz	Aerosol	Aerosol Can	2: Compressed Gas
Spartan TnT	1	15 oz	Aerosol	Aerosol Can	2: Compressed Gas
Spartan TnT Disinfectant Cleaner	1	15 oz	Aerosol	Aerosol Can	2: Compressed Gas
Spray Paint	1	12 oz	Aerosol	Aerosol Can	2: Compressed Gas
Super stripe traffic paint	3	16 oz	Aerosol	Aerosol Can	2: Compressed Gas
Tri-Flow Synthetic Oil	2	12 oz	Aerosol	Aerosol Can	2: Compressed Gas
WD-40	1	15 oz	Aerosol	Aerosol Can	2: Compressed Gas
Wind Jammer	1	12 oz	Aerosol	Aerosol Can	2: Compressed Gas
Zinsser Stain Sealing Ceiling Paint	3	13 oz	Aerosol	Aerosol Can	2: Compressed Gas
Goof Off The Ultimate Remover	1	1 gal	Liquid	Metal	3: Flammable Liquid
High-Gloss Floor Finish	1	1 gal	Liquid	Plastic	3: Flammable Liquid
Liquid Nails Adhesive	1	10.2 oz	Liquid	Fiber	3: Flammable Liquid
Minwax Polyshades	1	32 oz	Liquid	Metal	3: Flammable Liquid
Minwax Wood Finish	1	32 oz	Liquid	Metal	3: Flammable Liquid
Oatey PVC Cement	1	16 oz	Liquid	Metal	3: Flammable Liquid

TABLE 2 - ABANDONED CHEMICALS

Product Name/Description	Quantity	Container Size	Physical State	Material	Hazard Class
Oatey PVC Cleaner	1	4 oz	Liquid	Metal	3: Flammable Liquid
Oatey PVC Cleaner	1	16 oz	Liquid	Metal	3: Flammable Liquid
PL 200 Adhesive	1	10.2 oz	Liquid	Fiber	3: Flammable Liquid
Powerhold 500 Contact Cement	1	32 oz	Liquid	Metal	3: Flammable Liquid
Purell Instant Hand Sanitizer	10	800 ml	Liquid	Plastic	3: Flammable Liquid
Quickbond Latex Contact Cement Adhesive	1	32 oz	Liquid	Metal	3: Flammable Liquid
Rectorseal Pipe Thread Sealant	1	4 oz	Liquid	Metal	3: Flammable Liquid
Rust-Oleum	1	8 oz	Liquid	Metal	3: Flammable Liquid
Sentinel 747 Floor Adhesive Remover	1	1 gal	Liquid	Plastic	3: Flammable Liquid
Sherwin Williams Wood Classics	1	32 oz	Liquid	Metal	3: Flammable Liquid
Sher-Wood	1	1 gal	Liquid	Metal	3: Flammable Liquid
Spartan Glass Cleaner	3	32 oz	Liquid	Plastic	3: Flammable Liquid
Sunnyside paint thinner	1	1 gal	Liquid	Plastic	3: Flammable Liquid
Zinsser B I N Primer Sealer	1	1 gal	Liquid	Metal	3: Flammable Liquid
Amine 400 Weed Killer	1	2.5 gal	Liquid	Plastic	6: Toxic
Barrier Year-long Vegetation Killer	1	2.5 gal	Liquid	Plastic	6: Toxic
Broad Spectrum Crawling Bug Killer	10	24 oz	Liquid	Plastic	6: Toxic
United Mec Amine-D Turf Herbicide	1	1 gal	Liquid	Plastic	6: Toxic
Urine Sample Containers (used)	2	5 gal	Liquid	Plastic	8: Corrosive
Advanced Water Company Inc. 3551	2	5 gal	Liquid	Plastic	8: Corrosive
Betco Ax-It Plus	1	5 gal	Liquid	Plastic	8: Corrosive
Betco Mad	1	1 gal	Liquid	Plastic	8: Corrosive
Betco Restroom Cleaner	1	32 oz	Liquid	Plastic	8: Corrosive
Betco Stix	2	1 qt	Liquid	Plastic	8: Corrosive
Crew Shower, Tub & Tile Cleaner	1	1 gal	Liquid	Plastic	8: Corrosive
Dishforce	1	9 lbs	Solid	Plastic	8: Corrosive
Kleen Solutions LT 525 Chlorine Destainer	2	5 gal	Liquid	Plastic	8: Corrosive
Lime-A-Way	1	16 oz	Liquid	Plastic	8: Corrosive
NexGuard Boiler Water Treatment	1	5 gal	Liquid	Plastic	8: Corrosive
Pink Pearl Heavy Duty Restroom & Fixture Cleaner	13	32 oz	Liquid	Plastic	8: Corrosive
Pros Edge Pink Pearl Deodorizer	1	32 oz	Liquid	Plastic	8: Corrosive
Scram Liquid Drain Opener	2	32 oz	Liquid	Plastic	8: Corrosive
Spartan SparCling Restroom Disinfectant	1	32 oz	Liquid	Plastic	8: Corrosive
Super Clean Multi-Purpose Cleaner	2	32 oz	Liquid	Plastic	8: Corrosive
Surflex Delimer Heavy Duty Liquid Lime Scale Remover	1	1 gal	Liquid	Plastic	8: Corrosive
Turtle Wax	2	14 oz	Solid	Plastic	8: Corrosive
BASF Silicone	9	10.1 oz	Liquid	Fiber	Non-Hazardous
DAP Silicone	10	10.1 oz	Liquid	Plastic	Non-Hazardous
Ajax Oxygen Bleach Cleaner	2	21 oz	Solid	Fiber	Non-Hazardous
All purpose bleach	3	1 gal	Liquid	Plastic	Non-Hazardous
Aloe Vera	1	12 oz	Liquid	Plastic	Non-Hazardous

TABLE 2 - ABANDONED CHEMICALS

Product Name/Description	Quantity	Container Size	Physical State	Container Material	Hazard Class
ArmorAll Original Protectant	1	16 oz	Liquid	Plastic	Non-Hazardous
ArmorAll Original Protectant	1	64 oz	Liquid	Plastic	Non-Hazardous
Auto Kleen Rinse Aid	3	5 gal	Liquid	Plastic	Non-Hazardous
Bare Bones	1	5 gal	Liquid	Plastic	Non-Hazardous
Betco Floor Sealer	2	5 gal	Liquid	Plastic	Non-Hazardous
Betco New Push Liquid Bacterial/Digester/Spotter	1	1 gal	Liquid	Plastic	Non-Hazardous
Betco Quat-Stat	1	1 gal	Liquid	Plastic	Non-Hazardous
Betco Winning Hands Hair & Body Shampoo	4	1 gal	Liquid	Plastic	Non-Hazardous
Betco Winning Hands Hair & Body Shampoo	1	100 ml	Solid	Fiber	Non-Hazardous
Black Jack Pourable Driveway Crack Filler	1	1 gal	Liquid	Plastic	Non-Hazardous
Black Jack Drive-Seal 200 Filler & Sealer	87	5 gal	Liquid	Plastic	Non-Hazardous
Buckeye XL-100 Heavy Duty Cleaner-Degreaser	1	1 gal	Liquid	Plastic	Non-Hazardous
Cheese Powder	1	50 lbs	Solid	Fiber	Non-Hazardous
Chlor-Tab B-T-F Disinfectant	1	25 oz	Solid	Plastic	Non-Hazardous
Clorox Bleach	1	1 gal	Liquid	Plastic	Non-Hazardous
CLR	1	28 oz	Liquid	Plastic	Non-Hazardous
Coppertone sunscreen	1	8 oz	Liquid	Plastic	Non-Hazardous
Devco Tru-Glaze 4418	1	6.4 oz	Liquid	Metal	Non-Hazardous
Diamond Vogel	1	1 gal	Liquid	Metal	Non-Hazardous
Dutch Boy Polyurethane Gloss	2	1 gal	Liquid	Metal	Non-Hazardous
Ecolab Super Trump	3	1 gal	Liquid	Plastic	Non-Hazardous
evap-Pow'r C	1	1 gal	Liquid	Plastic	Non-Hazardous
Febreze	1	1 gal	Liquid	Plastic	Non-Hazardous
FlameSeal	1	12 oz	Liquid	Plastic	Non-Hazardous
Foaminator Non-Acid Biodegradable Condenser Coil Cleaner	4	1 gal	Liquid	Plastic	Non-Hazardous
Fresh Bio Conqueror 105	1	1 gal	Liquid	Plastic	Non-Hazardous
Gunk Purple Cleaner Degreaser	1	32 oz	Liquid	Plastic	Non-Hazardous
H-20 95 Water Soluble Tinning Flux	1	8 oz	Solid	Plastic	Non-Hazardous
Harvey's Plumber Putty	1	14 oz	Solid	Plastic	Non-Hazardous
Hydrogen Peroxide 3%	1	16 oz	Liquid	Plastic	Non-Hazardous
Luxor Antimicrobial Cleaner	1	1 gal	Liquid	Plastic	Non-Hazardous
Penetrating Silicone Grout Sealer	1	32 oz	Liquid	Plastic	Non-Hazardous
PineSol	1	28 oz	Liquid	Plastic	Non-Hazardous
Pink lotion Hand Soap	2	1 gal	Liquid	Plastic	Non-Hazardous
Pros edge Diamond Coat	2	5 gal	Liquid	Plastic	Non-Hazardous
ProTek-100 Propylene Glycol Heat Transfer Fluid	1	5 gal	Liquid	Plastic	Non-Hazardous
Rain-X foaming Car Wash concentrate	1	100 oz	Liquid	Plastic	Non-Hazardous
Serene Elements Shampoo	190	0.75 oz	Liquid	Plastic	Non-Hazardous
Sheetrock All Purpose Joint Compound	1	1 gal	Solid	Plastic	Non-Hazardous
Sheetrock All Purpose Joint Compound	2	61.7 lbs	Solid	Plastic	Non-Hazardous
Sheetrock All Purpose Joint Compound	4	4.5 gal	Solid	Plastic	Non-Hazardous

TABLE 2 - ABANDONED CHEMICALS

Product Name/Description	Quantity	Container Size	Physical State	Material	Hazard Class
Sheetrock Sand Finish Paint Additive	1	8 oz	Liquid	Plastic	Non-Hazardous
Sherwin Williams pre-catalyzed waterbased epoxy	1	123 oz	Liquid	Metal	Non-Hazardous
Soft Spot Rinse Injector	1	1 gal	Liquid	Plastic	Non-Hazardous
Spartan Spraybuff	1	32 oz	Liquid	Plastic	Non-Hazardous
Splash Premium RV & Marine Antifreeze	3	1 gal	Liquid	Plastic	Non-Hazardous
SplashWash	2	1 gal	Liquid	Plastic	Non-Hazardous
Spread Ultra	1	4 gal	Liquid	Plastic	Non-Hazardous
StepOne Drywall Primer/Sealer	1	5 gal	Liquid	Plastic	Non-Hazardous
StoneMason Liquid Concrete Crack Filler	1	1 gal	Liquid	Plastic	Non-Hazardous
Super Iron Out Rust and Stain Remover	1	1 lbs 2 oz	Solid	Plastic	Non-Hazardous
Super spec Semi-Gloss	2	5 gal	Liquid	Metal	Non-Hazardous
Surflex Green Apple Pot & Pan Manual Dishwashing Detergent	1	1 gal	Liquid	Plastic	Non-Hazardous
Vapor Barrier Primer/Sealer	1	1 gal	Liquid	Metal	Non-Hazardous
Whitlam Select Unyte	1	8 oz	Liquid	Metal	Non-Hazardous
Windex	1	32 oz	Liquid	Plastic	Non-Hazardous
Zep Commercial All-in-1 Premium Pressure Washing Concentrate	1	1.35 gal	Liquid	Plastic	Non-Hazardous
Various medications, over the counter	1	Various		Plastic	Non-Hazardous
Unknown	1	32 oz	Liquid	Plastic	Unknown
Buyers Hydraulic Fluid	1	32 oz	Liquid	Plastic	Used Oil
LubeForce Light Hydraulic Fluid	1	5 gal	Liquid	Plastic	Used Oil
Lubricating Oil	1	6 oz	Liquid	Metal	Used Oil
Lucas Heavy Duty Oil Stabilizer	1	32 oz	Liquid	Plastic	Used Oil
Mag1 Premium ATF	1	1 qt	Liquid	Plastic	Used Oil

APPENDIX 3
Site Photographs



Photograph 1: Appliances.



Photograph 2: Appliances

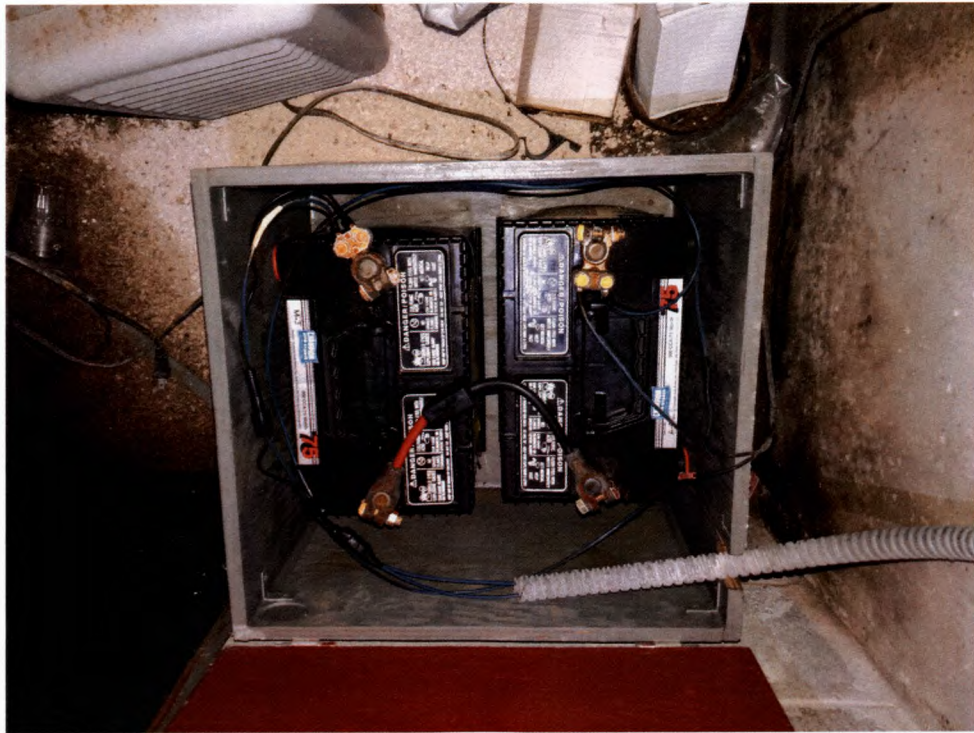
Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 3: Water heater



Photograph 4: Batteries (elevator backup power supply)

Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 5: Batteries (interruptible power supply)



Photograph 6: Biohazard (used urine specimen cups)

Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 7: CFC containing unit (water fountain)



Photograph 8: CFC containing unit (commercial refrigerator)

Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 9: CRT monitors



Photograph 10: Emergency lighting, typical

Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 11: Elevator, hydraulic pump



Photograph 12: Exit sign, typical

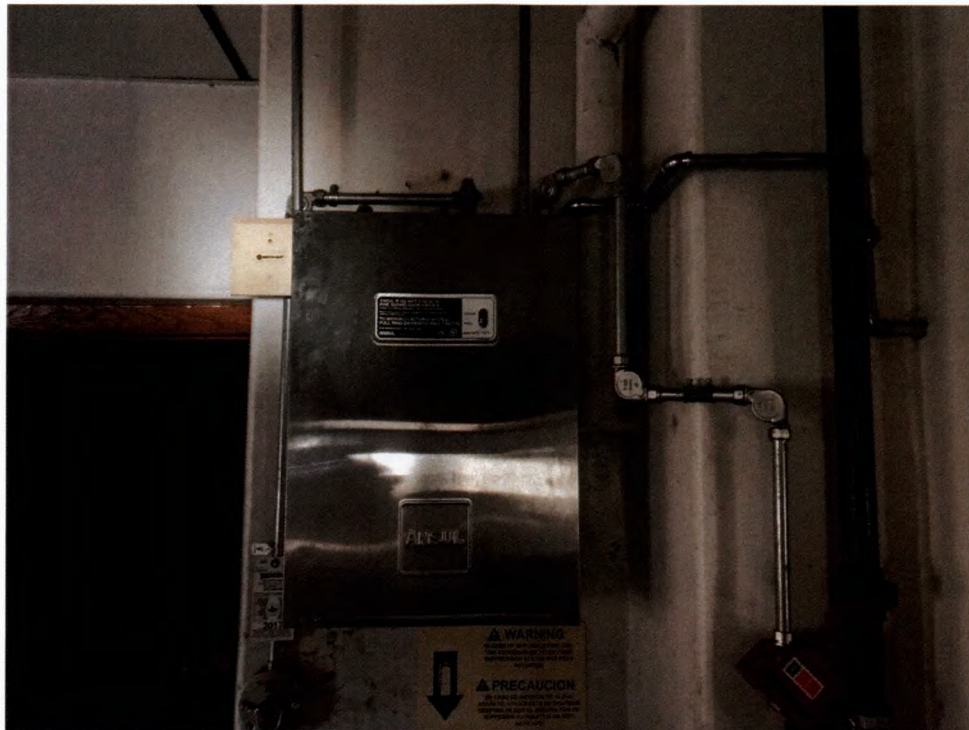
Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 13: Portable fire extinguisher, typical.



Photograph 14: Kitchen fire suppression system

Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 15: Mercury-containing devices (thermostat), multiple variations.



Photograph 16: Microwave oven, typical

Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 17: Electrical equipment



Photograph 18: Smoke detector, typical

Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 19: X-ray inspection unit



Photograph 20: Diesel fuel AST

Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 21: Boiler



Photograph 22: Pressure tanks

Site Photographs
1600 County Home Road
Sergeant Bluff, IA 51054

Photograph Date:
11/18/2021





Photograph 23: Over-the-counter medication & personal care items.



Photograph 24: Over-the-counter medication & medical supplies

Site Photographs
 1600 County Home Road
 Sergeant Bluff, IA 51054

Photograph Date:
 11/18/2021



APPENDIX 2 – Asbestos Containing Materials Inspection Report

ASBESTOS CONTAINING MATERIALS INSPECTION



**Prairie Hills
1600 County Home Road
Sergeant Bluff, Iowa 51504**

Prepared for:

**Woodbury County
401 8th Street
Sioux City, Iowa 51101**

Prepared by:



**600 4th Street, Suite 808
Sioux City, IA 51101**

December 10, 2021



ASBESTOS CONTAINING MATERIALS INSPECTION

Prairie Hills

1600 County Home Road

Sergeant Bluff, Iowa 51504

Inspected and Prepared by:

A handwritten signature in black ink, appearing to read "Tyler Silverthorn".

Tyler Silverthorn

Project Manager

Iowa Certified Asbestos Inspector: 21-5537

Reviewed by:

A handwritten signature in black ink, appearing to read "Jon Reis".

Jon Reis

Sr. Project Manager

Iowa Certified Asbestos Inspector: 21-6932

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Table 1 – Asbestos Containing Materials Sample List

Table 2 – Non-Asbestos Containing Material Sample List

APPENDICES

APPENDIX A – Qualifications

APPENDIX B – Laboratory Reports/Chain of Custody Documentation

APPENDIX C – Photographs

APPENDIX D – Positive Summary Map(s)

1.0 EXECUTIVE SUMMARY

Impact7G, Inc. (Impact7G), completed an Asbestos Containing Materials (ACM) Inspection on November 18 and 22, 2021 of Building 1 and associated additions located at 1600 County Home Road, Sergeant Bluff, Iowa (Property). The purpose of this ACM Inspection is to document the presence of asbestos containing materials and assist Woodbury County (Client) in facilitating demolition activities of the structure.

Asbestos was detected in seventeen (17) of the one-hundred fifty-two (152) samples collected from various building components within the Property's interior and exterior. See Table 1 for additional information. ACMs include:

- Fire Door Insulation(s)
- Linoleum Flooring(s)
- Ceiling Tile
- Sink Undercoat(s)
- Floor Tile(s)
- Roof Paper
- Vent Caulk
- Boiler Insulation
- Overhang
- Expansion Joint Compound

All building materials similar in appearance, color, and/or texture to those determined to contain asbestos must be assumed to contain asbestos throughout this building.

Based on these results, the Property requires further action prior to any demolition activities.

2.0 INTRODUCTION

A. Property Information

Location:

Prairie Hills
1600 County Home Road
Sergeant Bluff, Iowa 51504

Contact Person:

Woodbury County
Kenny Schmitz
401 8th Street
Sioux City, Iowa 51101

B. Personnel

Sr. Project Manager: Jon Reis	State of Iowa License	21-6932
Inspector: Tyler Silverthorn	State of Iowa License	21-5537

C. Sampling Plan

According to the Client, the scope of this ACM Inspection includes a 3-story building and associated additions.

This ACM Inspection is in accordance with OSHA Regulation 1926.1101. All samples collected in the field were sent to EMSL, an NVLAP certified laboratory. The samples were analyzed via the polarized light microscopy (PLM) method for asbestos content. If requested by Client, samples were further analyzed via the transmission electron microscopy (TEM) method or PLM 400 Point Count analysis method.

D. Regulation Review

The U.S. EPA qualifies asbestos containing materials (ACM) as materials with an asbestos content greater than 1%. According to Iowa OSHA, ACM is any material found to contain asbestos, regardless of its concentration, and shall be regulated as hazardous waste. The following definitions are taken from Section 61.141 of Subpart M, Part 61 of Title 40: Protection of Environment of the Code of Federal Regulations (CFR).

- "Category I nonfriable asbestos-containing material (ACM)" is defined as asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1% asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy (PLM).
- "Category II nonfriable ACM" is defined as any material, excluding Category I nonfriable ACM, containing more than 1% asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, PLM that, when dry, **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.
- "Friable asbestos material" is defined as any material containing more than 1% asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, PLM that when dry, **can** be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10% as determined by a method other than point counting by PLM, verify the asbestos content by point counting using PLM.

3.0 PROPERTY DESCRIPTION

The Property consists of a 3-story building and associated additions constructed in 1921.

4.0 INSPECTION LIMITATIONS

An Inspection limitation, for the purpose of this report, is any action or task that is limited from the original scope work. The overall reason for any limitation is the protection of Impact7G personnel. Examples of limitations can range from a lack of accessibility to an area of the Property, unsafe work areas, collecting additional samples, etc.

There were no limitations encountered during this ACM Inspection.

5.0 INSPECTION ACTIVITIES

Iowa certified asbestos inspectors from Impact7G collected 152 samples on November 18 and 22, 2021. The samples were collected from various accessible building components located throughout the Property. Upon completion of bulk sampling activities, samples were sent to EMSL, an NVLAP certified laboratory.

Materials that are "suspected" to contain asbestos are divided into the following three categories:

1. **Surfacing materials** are materials that are sprayed or troweled on for acoustical, decorative, or fireproofing purposes. Examples are textured ceilings or drywall, exterior stucco and structural steel fireproofing;
2. **Thermal System Insulation (TSI)** is insulation used to inhibit heat transfer from pipes, boilers, tanks, ducts, and various other components of hot and cold-water systems and HVAC systems. Examples are hard cementitious "mud" type insulation on pipes, boilers and flues; and,
3. **Miscellaneous** materials are mostly non-friable products and materials such as floor tile, drywall, ceiling tile and roofing felt.

The following tables show samples positively identified by the laboratory to be asbestos containing materials (ACM) and samples that were analyzed as non-ACM. The complete analytical results can be found in Appendix B.

Table 1 – Asbestos Containing Materials Sample List

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content	Point Count Analysis	Est. Quantity
13 ABC	Fire Door Insulation	Misc	Y	White	3	Mid Hall Stairway	10% Amosite 5% Chrysotile	N/A	7 EA
26	Linoleum Flooring	Misc	N	Beige	3	NE Stairway	20% Chrysotile	N/A	250 SF
34	2' x 2' Ceiling Tile (Pins Long Gouge)	Misc	Y	Gray/White	2	W Bathroom	<1% Chrysotile	1.25%	750 SF
35 AB	Pipe Elbow	TSI	Y	White	2	W Bathroom	<1% Amosite	0.25% Amosite	N/A
35 C	Pipe Elbow	TSI	Y	White	2	W Bathroom	<1% Amosite	0.50% Amosite	N/A
44 A	Pipe Elbow	TSI	Y	White	2	S Hall E Closet	<1% Amosite	<0.25% Amosite	N/A
44 B	Pipe Elbow	TSI	Y	White	2	S Hall E Closet	<1% Amosite	0.25% Amosite	N/A
44 C	Pipe Elbow	TSI	Y	White	2	S Hall E Closet	<1% Amosite	0.50% Amosite	N/A
45	Linoleum Flooring	Misc	N	Yellow	2	SE Room	20% Chrysotile	N/A	250 SF
50	Sink Undercoat	Misc	N	Black	1	NE Med Room	2% Chrysotile	N/A	2 EA
64	9" x 9" Floor Tile	Misc	N	Beige	1	Kitchen S Room	2% Chrysotile	N/A	250 SF
66	Sink Undercoat	Misc	N	Black	1	Kitchen	2% Chrysotile	N/A	(See 50)
71	12" x 12" Floor Tile	Misc	N	Beige	1	Connector E Room	2% Chrysotile	N/A	340 SF
73	Window Caulk	Misc	N	Brown	1	Connector	<1% Chrysotile	<0.25% Chrysotile	N/A
78	Door Caulk	Misc	N	Beige	1	S Addition N Entry	<1% Chrysotile	0.4% Chrysotile	N/A
84	Roof Paper-Mid Layer	Misc	N	Black	Roof	Gym Roof	25% Chrysotile	N/A	3,750 SF
89	Vent Caulk	Misc	N	Black	Roof	Gym Roof	3% Chrysotile	N/A	100 LF
97 A	Plaster Skim Coat	Surf	Y	Gray/White	1	S Addition S Storage	<1% Chrysotile	<0.25% Chrysotile	N/A
98 A	Boiler Insulation	TSI	Y	White	Basement	Boiler Room	20% Amosite 2% Chrysotile	N/A	210 SF
98 B	Boiler Insulation	TSI	Y	White	Basement	Boiler Room	10% Amosite 10% Chrysotile	N/A	See 98a
98 C	Boiler Insulation	TSI	Y	White	Basement	Boiler Room	2% Amosite 20% Chrysotile	N/A	See 98a
104	Overhang Concrete Board	Misc	Y	Gray	Exterior	S Addition	20% Chrysotile	N/A	290 SF

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Est. Quantity** – SF=Square foot, LF=Linear foot, EA=Each
Asbestos Containing Materials Sample List Continued on Next Page

Table 1 – Asbestos Containing Materials Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content	Point Count Analysis	Est. Quantity
107	Expansion Joint Compound	Misc	N	Gray/Tan	Exterior	Building 1 N Side Above Window	2% Chrysotile	N/A	510 LF

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Est. Quantity** – SF=Square foot, LF=Linear foot, EA=Each

Asbestos Containing Material (ACM) is defined as any material containing greater than one percent (>1%) asbestos. Building materials containing equal to one percent (1%) or less than one percent (<1%) asbestos by point count analysis are not classified as Regulated Asbestos Containing Material (RACM) by the EPA.

Seventeen (17) bulk material samples were analyzed greater than 1% asbestos. Ten (10) of the remaining building material samples were detected with a concentration of <1% asbestos. ACMs include fire door insulation, linoleum flooring(s), ceiling tile, pipe elbows, sink undercoat(s), floor tile(s), window caulk, door caulk, roof paper, vent caulk, plaster skim coat, boiler insulation, overhang concrete board, and expansion joint compound. If during demolition or renovation activities additional areas of identified ACM are discovered, they should be abated accordingly. Laboratory analytical reports are provided in Appendix B.

Additional testing was performed using the 400 Point Count procedure on the ten (10) bulk material samples that were originally reported to have less than one percent (<1%) asbestos by polarized microscopy. Nine (9) out of the ten (10) bulk sample materials tested with concentrations of less than one percent (<1%) asbestos, therefore these nine materials are not regulated by the EPA. Iowa OSHA would consider disturbance of these nine (9) materials as unclassified asbestos work.

Though an asbestos abatement contractor is not required to remove materials containing 1% or less asbestos, these materials must be removed wet and promptly contained and disposed of in leak-tight containers. Materials containing 1% or less asbestos are not required to be disposed of at an approved landfill as asbestos waste material.

Employers of those engaging in the disturbance of 1% or less asbestos are required to provide their workers with Asbestos Awareness training of at least two hours prior to disturbance of said materials. Further, those removing materials containing 1% or less asbestos must maintain documentation proving that breathing zone exposures do not exceed either OSHA's permissible exposure limit or short-term excursion limit.

It is important to note that these are estimated quantities; therefore, the abatement contractors and the client representative should discern between the estimated quantity above and future exploration of the property at the pre-bid walk-through to determine the final quantity during abatement procedures.

Table 2 – Non-Asbestos Containing Material Sample List

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
01	2' x 4' Ceiling Tile (Pins Large Gouges)	Misc	Y	Gray	3	West Room	ND
02 ABC	Ceiling Insulation	TSI	Y	Gray	3	West Room	ND
03 ABC	Ceiling Insulation	TSI	Y	White	3	West Room	ND
04	Sheet Rock Thick	Misc	N	Gray	3	West Room	ND
05	Sheet Rock Thin	Misc	N	Gray	3	West Room	ND
06 ABC	Plaster Rough Coat	Surf	Y	Gray	3	West Room	ND
07 ABC	Plaster Skim Coat	Surf	Y	White	3	West Room	ND
08	Corner Guard Mastic	Misc	N	Beige	3	West Room	ND
09	Window Exterior Covering	Misc	N	Brown	3	West Room	ND
10	Window Interior Covering	Misc	N	White	3	West Room	ND
11	Window Covering Fiberglass Insulation	Misc	N	Yellow	3	West Room	ND
12	Duct Fiberglass Insulation	Misc	N	Yellow	3	West Room	ND
14	Duct Vibration Damper	Misc	N	Black	3	Mid Hall	ND
15	Pipe Wrap	Misc	N	White/Silver	3	Mid Hall	ND
16	Fiberglass Pipe Insulation	Misc	N	Yellow	3	Mid Hall	ND
17	2' x 4' Ceiling Tile (Pins Long Gouge)	Misc	Y	Brown	3	Mid Hall	ND
18	2' x 4' Ceiling Tile (Pins Small Gouge)	Misc	Y	Gray	3	Mid Hall	ND
19	Floor Mastic	Misc	N	Brown	3	Mid Hall	ND
20	Cove Base Mastic	Misc	N	Yellow	3	Mid Hall	ND
21	Wallpaper	Misc	N	Beige	3	Mid Hall	ND
22	Fiberglass Duct Insulation	Misc	N	Pink	3	N Hall	ND
23	Linoleum Flooring	Misc	N	Beige	3	N Hall Bathroom	ND
24	Cove Base	Misc	N	Black	3	N Hall Bathroom	ND
25	Cove Base Mastic	Misc	N	Yellow	3	N Hall Bathroom	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

Table 2 – Non-Asbestos Containing Material Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
27	Linoleum Flooring Mastic	Misc	N	Yellow	3	NE Stairway	ND
28	Sink Caulk	Misc	N	Clear	3	NE Stairway	ND
29	Drywall	Misc	N	White	3	Mid Hall	ND
30	Drywall Tape	Misc	N	Beige	3	Mid Hall	ND
31 ABC	Drywall Mud	Surf	Y	White	3	Mid Hall	ND
32	Fuse Backer	Misc	N	Gray	2	W Room	ND
33	Panel Mastic	Misc	N	Yellow	2	W Bathroom	ND
36	2' x 2' Ceiling Tile (Rough Texture)	Misc	Y	Gray	2	NE Lounge	ND
37	Carpet Mastic	Misc	N	Yellow	2	NW Kitchen	ND
38	12" x 12" Floor Tile	Misc	N	Beige	2	NW Bathroom	ND
39	Floor Tile Mastic	Misc	N	Yellow	2	NW Bathroom	ND
40	Cove Base	Misc	N	Brown	2	NW Bathroom	ND
41	Cove Base	Misc	N	Brown	2	N Entry	ND
42	Cove Base Mastic	Misc	N	Yellow	2	N Entry	ND
43	Window Caulk	Misc	N	Brown	2	N Entry	ND
46 ABC	Plaster Skim Coat	Surf	Y	White	2	SW Room	ND
47 ABC	Plaster Rough Coat	Surf	Y	Gray	2	SW Room	ND
48 ABC	Texture	Surf	Y	White	1	W Room	ND
49	12" x 12" Floor Tile	Misc	N	Beige	1	Mid Hall Closet	ND
51	Linoleum Flooring	Misc	N	Beige	1	N Med Room	ND
52	Countertop Mastic	Misc	N	Beige	1	N Med Room	ND
53	Cove Base	Misc	N	Gray	1	N Med Room Office	ND
54	Cove Base Mastic	Misc	N	Beige	1	N Med Room Office	ND
55	2' x 2' Ceiling Tile (Fiberglass)	Misc	Y	Yellow	1	NW Bathroom	ND
56	Drywall	Misc	N	White	1	NW Bathroom	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

Table 2 – Non-Asbestos Containing Material Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
57	Drywall Tape	Misc	N	Beige	1	NW Bathroom	ND
58 ABC	Drywall Mud	Surf	Y	White	1	NW Bathroom	ND
59 ABC	Texture	Surf	Y	White	1	NW Bathroom	ND
60 ABC	Floor Leveler	Surf	Y	White	1	E Storage	ND
61	12" x 12" Floor Tile	Misc	N	Gray	1	E Storage	ND
62	Floor Tile Mastic	Misc	N	Yellow	1	E Storage	ND
63	Cove Base	Misc	N	Green	1	E Storage	ND
65	Floor Tile Mastic	Misc	N	Black	1	Kitchen S Room	ND
67	Pipe Wrap	Misc	N	Brown	1	Kitchen	ND
68 ABC	Pipe Insulation	TSI	Y	Beige	1	Kitchen	ND
69 ABC	Pipe Fitting	TSI	Y	White	1	Kitchen Utility Room	ND
70 ABC	Tank Insulation	TSI	Y	White	1	Kitchen Utility Room	ND
72	Floor Tile Mastic	Misc	N	Black	1	Connector E Room	ND
74	12" x 12" Floor Tile	Misc	N	Beige	1	S Addition Training Room	ND
75	Floor Tile Mastic	Misc	N	Yellow	1	S Addition Training Room	ND
76 ABC	Pipe Insulation	TSI	Y	White	1	S Addition Training Room Kitchen	ND
77	Floor Tile Mastic	Misc	N	Black	1	S Addition Training Room Kitchen	ND
79	2' x 2' Ceiling Tile, Rough Texture	Misc	Y	Beige	1	S Addition W Office	ND
80	2' x 2' Ceiling Tile, Medium Texture	Misc	Y	Gray	1	S Addition W Office Closet	ND
81	2' x 4' Ceiling Tile (Pins Gouges)	Misc	Y	Beige	1	S Addition Hallway	ND
82 ABC	Stucco	Surf	Y	Gray	Exterior	Building 1/Boiler Overhang	ND
83	Window Caulk	Misc	N	Black	Exterior	Building 1	ND
85	Roof Tar Mid Layer	Misc	N	Black	Roof	Gym Roof	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

Table 2 – Non-Asbestos Containing Material Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
86	Roof Insulation Board	Misc	Y	Brown	Roof	Gym Roof	ND
87	Roof Paper Bottom Layer	Misc	N	Black	Roof	Gym Roof	ND
88	Roof Tar Bottom Layer	Misc	N	Black	Roof	Gym Roof	ND
90	Roof Caulk	Misc	N	Black	Roof	Gym Roof	ND
91	Roof Caulk	Misc	N	Beige	Roof	Addition Roof	ND
92	Vent Tar	Misc	N	Black	Roof	Addition Roof	ND
93	Roof Paper	Misc	N	Black	Roof	S Addition Storage Roof	ND
94	Roof Tar	Misc	N	Black	Roof	S Addition Storage Roof	ND
95	Shingle	Misc	N	Black	Roof	Boiler Room Roof	ND
96	Tar Paper	Misc	N	Black	Roof	Boiler Room Roof	ND
97 BC	Plaster Skim Coat	Surf	Y	Gray	1	S Addition Storage Room	ND
99	Boiler Wrap	Misc	N	Beige	Basement	Boiler Room	ND
100	Boiler Gasket	Misc	N	White	Basement	Boiler Room	ND
101	Door Caulk	Misc	N	Brown	Exterior	Boiler Room Entry Door	ND
102	Expansion Joint Compound	Misc	N	Beige	Exterior	S Addition S Side	ND
103	Drain Caulk	Misc	N	Beige	Exterior	S Addition S Side	ND
105	Window Caulk	Misc	N	Brown	Exterior	Connector	ND
106	Vent Caulk	Misc	N	Brown	Exterior	Building 1 S Side	ND
108	Window Glazing	Misc	N	Gray	Exterior	Building 1 S Side	ND
109	Expansion Joint Compound on Ground	Misc	N	Beige	Exterior	S Addition E Entry	ND
110	Window Caulk	Misc	N	White	Exterior	Boiler Room N Side	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

6.0 CONCLUSIONS / RECOMMENDATIONS

The following conclusions and recommendations are summarized as follows:

- Asbestos was detected in seventeen (17) of the bulk material samples collected from the building located at 1600 County Home Road, Sergeant Bluff, Iowa. ACMs include fire door insulation, linoleum flooring(s), ceiling tile, sink undercoat(s), floor tile(s), roof paper, vent caulk, boiler insulation, overhang concrete board, and expansion joint compound. Based on the results of the data collected during the assessment, the building requires further action prior to demolition.

Impact7G recommends the abatement of all ACM containing components located within the inspection area if those building materials are to be disturbed during any future renovation/demolition activities. All abatement work shall be completed in accordance with local, state, and federal regulations. A visual inspection is recommended upon completion of abatement work to document that all ACMs within the scope of abatement have been removed.

7.0 CONDITIONS & LIMITATIONS

The Iowa Department of Natural Resources' (IDNR) Air Quality Bureau and Occupational Safety and Health Bureau (OSHA) of the Iowa Division of Labor Services require notification of any renovation/demolition activities in non-residential projects if the combined regulated ACM meets or exceeds any of the following thresholds: 160 square feet of surfacing ACM, 260 linear feet of TSI, or 35 cubic feet of ACM debris.

Impact7G has performed the tasks contained within this report in a thorough and professional manner consistent with commonly accepted standard industry practices. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the property. Impact7G cannot guarantee, and does not warrant, that this report has identified all adverse environmental factors and/or conditions affecting the subject property. This report is not a bidding document or project specification as it does not contain the necessary components. Impact7G cannot warrant the work of any third party that may have aided in the completion of this report. This report has been prepared on behalf of and exclusively for use by Woodbury County for specific application to their project as discussed. Contractors, consultants or other third parties reviewing this report must draw their own conclusions regarding data contained within the report, further investigation or required remediation.

APPENDIX A
Qualifications

JONATHAN REIS

DOB: 02-13-1984

Issued: 09-15-2021



This person is licensed to perform asbestos work in the State of Iowa. ID card is intended for official use only and must be present on jobsite.

License Type	Number	Expires
INSPECTOR	21-6932	08-27-2022
PROJECT DESIGNER	21-5976	03-02-2022



Asbestos

Rod A. Roberts
Rod A. Roberts
Labor Commissioner

TYLER SILVERTHORN


DOB: 02-08-1988

Issued: 01-20-2022



This person is licensed to perform asbestos work in the State of Iowa. ID card is intended for official use only and must be present on jobsite.

License Type	Number	Expires
INSPECTOR	21-5537	12-18-2021
SUPERVISOR	20-4324	01-09-2021

The logo for the Division of Labor in Iowa, featuring a circular emblem with the text "DIVISION OF LABOR" around the perimeter and "IOWA" in the center.

Rod A. Roberts
Rod A. Roberts
Labor Commissioner

Asbestos

APPENDIX B

**Laboratory Reports /
Chain of Custody Documentation**



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250
Tel/Fax: (317) 803-2997 / (317) 803-3047
<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162127997
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Tyler Silverthorn
Impact7G
9550 Hickman Road
Suite 105
Clive, IA 50325
Project: Woodbury County - Prairie Hills

Phone: (515) 468-1105
Fax: (515) 528-8005
Received Date: 11/24/2021 1:30 PM
Analysis Date: 11/30/2021
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01 162127997-0001	2X4 CEILING TILE - PINS LARGE GOUGE - GRAY	Gray/White Fibrous Homogeneous	70% Cellulose 10% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected
02A 162127997-0002	CEILING INSULATION - GRAY	Gray Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
02B 162127997-0003	CEILING INSULATION - GRAY	Gray Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
02C 162127997-0004	CEILING INSULATION - GRAY	Gray Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
03A 162127997-0005	CEILING INSULATION - WHITE	White Fibrous Homogeneous	95% MinWool	5.0% Non-fibrous (Other)	None Detected
03B 162127997-0006	CEILING INSULATION - WHITE	White Fibrous Homogeneous	95% MinWool	5.0% Non-fibrous (Other)	None Detected
03C 162127997-0007	CEILING INSULATION - WHITE	White Fibrous Homogeneous	95% MinWool	5.0% Non-fibrous (Other)	None Detected
04 162127997-0008	SHEETROCK - THICK - GRAY	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80.0% Non-fibrous (Other)	None Detected
05 162127997-0009	SHEETROCK - THIN - GRAY	Brown/White Fibrous Heterogeneous	60% Cellulose	30% Gypsum 10.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Report amended: 12/01/2021 10:59:48 Replaces amended report from: 12/01/2021 10:38:15 Reason Code: DataEntry-Other (see report comment)



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Received Date: 11/24/2021 1:30 PM
Analysis Date: 11/30/2021
Collected Date:

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
06A 162127997-0010	PLASTER ROUGH COAT - GRAY	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80.0% Non-fibrous (Other)	None Detected
06B 162127997-0011	PLASTER ROUGH COAT - GRAY	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80.0% Non-fibrous (Other)	None Detected
06C 162127997-0012	PLASTER ROUGH COAT - GRAY	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80.0% Non-fibrous (Other)	None Detected
07A 162127997-0013	PLASTER SKIM COAT - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
07B 162127997-0014	PLASTER SKIM COAT - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
07C 162127997-0015	PLASTER SKIM COAT - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
08 162127997-0016	CORNER GUARD MASTIC - BEIGE	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
09 162127997-0017	WINDOW EXTERIOR COVERING - BROWN	Brown Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
10 162127997-0018	WINDOW INTERIOR COVERING - WHITE	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10.0% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Report amended: 12/01/2021 10:59:48 Replaces amended report from: 12/01/2021 10:38:15 Reason Code: DataEntry-Other (see report comment)



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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
11 162127997-0019	WINDOW FIBERGLASS INSULATION - YELLOW	Yellow Fibrous Homogeneous	98% Glass	2.0% Non-fibrous (Other)	None Detected
12 162127997-0020	DUCT FIBERGLASS INSULATION - YELLOW	Yellow Fibrous Homogeneous	98% Glass	2.0% Non-fibrous (Other)	None Detected
13A 162127997-0021	FIRE DOOR INSULATION - WHITE	White Fibrous Homogeneous		85.0% Non-fibrous (Other)	10% Amosite 5% Chrysotile
13B 162127997-0022	FIRE DOOR INSULATION - WHITE	White Fibrous Homogeneous		85.0% Non-fibrous (Other)	10% Amosite 5% Chrysotile
13C 162127997-0023	FIRE DOOR INSULATION - WHITE	White Fibrous Homogeneous		85.0% Non-fibrous (Other)	10% Amosite 5% Chrysotile
14 162127997-0024	DUCT VIBRATION DAMPER - BLACK	Black Fibrous Homogeneous	20% Synthetic	80.0% Non-fibrous (Other)	None Detected
15 162127997-0025	PIPE WRAP - WHITE/SILVER	White/Silver Fibrous Homogeneous	75% Cellulose 10% Glass	15.0% Non-fibrous (Other)	None Detected
16 162127997-0026	FIBERGLASS PIPE INSULATION - YELLOW	Yellow Fibrous Homogeneous	98% Glass	2.0% Non-fibrous (Other)	None Detected
17 162127997-0027	2X4 CEILING TILE - PINS LONG GOUGE - BROWN	Gray/White Fibrous Homogeneous	60% Cellulose 20% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Report amended: 12/01/2021 10:59:48 Replaces amended report from: 12/01/2021 10:38:15 Reason Code: DataEntry-Other (see report comment)



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Received Date: 11/24/2021 1:30 PM
Analysis Date: 11/30/2021
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
27 162127997-0037	LINOLEUM FLOORING MASTIC - YELLOW	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
28 162127997-0038	SINK CAULK - CLEAR	Clear Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
29 162127997-0039	DRYWALL - WHITE	White Non-Fibrous Homogeneous		95% Gypsum 5.0% Non-fibrous (Other)	None Detected
30 162127997-0040	DRYWALL TAPE - BEIGE	Beige Fibrous Homogeneous	98% Cellulose	2.0% Non-fibrous (Other)	None Detected
31A 162127997-0041	DRYWALL MUD - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
31B 162127997-0042	DRYWALL MUD - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
31C 162127997-0043	DRYWALL MUD - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
32 162127997-0044	FUSE BACKER - GRAY	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
33 162127997-0045	PANELING MASTIC - YELLOW	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
34 162127997-0046	2X2 CEILING TILE - PINS LONG GOUGE - GRAY	Gray/White Fibrous Homogeneous	95% MinWool	5.0% Non-fibrous (Other)	<1% Chrysotile
35A 162127997-0047	PIPE ELBOW - WHITE	White Fibrous Homogeneous	40% MinWool	60.0% Non-fibrous (Other)	<1% Amosite
35B 162127997-0048	PIPE ELBOW - WHITE	White Fibrous Homogeneous	40% MinWool	60.0% Non-fibrous (Other)	<1% Amosite
35C 162127997-0049	PIPE ELBOW - WHITE	White Fibrous Homogeneous	60% MinWool	40.0% Non-fibrous (Other)	<1% Amosite
36 162127997-0050	2X2 CEILING TILE - ROUGH TEXTURE - GRAY	Gray/White Fibrous Homogeneous	95% MinWool	5.0% Non-fibrous (Other)	None Detected
37 162127997-0051	CARPET MASTIC - YELLOW	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
38 162127997-0052	12X12 FLOOR TILE - BEIGE	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
39 162127997-0053	FLOOR TILE MASTIC - YELLOW	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
40 162127997-0054	COVE BASE - BROWN	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
41 162127997-0055	COVE BASE - BROWN	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
42 162127997-0056	COVE BASE MASTIC - YELLOW	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
43 162127997-0057	WINDOW CAULK - BROWN	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
44A 162127997-0058	PIPE ELBOW - WHITE	White Fibrous Homogeneous	40% MinWool	60.0% Non-fibrous (Other)	<1% Amosite
44B 162127997-0059	PIPE ELBOW - WHITE	White Fibrous Homogeneous	40% MinWool	60.0% Non-fibrous (Other)	<1% Amosite
44C 162127997-0060	PIPE ELBOW - WHITE	White Fibrous Homogeneous	60% MinWool	40.0% Non-fibrous (Other)	<1% Amosite
45 162127997-0061	LINOLEUM FLOORING - YELLOW	Yellow Fibrous Homogeneous		80.0% Non-fibrous (Other)	20% Chrysotile
46A 162127997-0062	PLASTER SKIM COAT - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
46B 162127997-0063	PLASTER SKIM COAT - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
46C 162127997-0064	PLASTER SKIM COAT - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
47A 162127997-0065	PLASTER ROUGH COAT - GRAY	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80.0% Non-fibrous (Other)	None Detected
47B 162127997-0066	PLASTER ROUGH COAT - GRAY	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80.0% Non-fibrous (Other)	None Detected
47C 162127997-0067	PLASTER ROUGH COAT - GRAY	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80.0% Non-fibrous (Other)	None Detected
48A 162127997-0068	TEXTURE - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
48B 162127997-0069	TEXTURE - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
48C 162127997-0070	TEXTURE - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
49 162127997-0071	12X12 FLOOR TILE - BEIGE	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
50 162127997-0072	SINK UNDERCOAT - BLACK	Black Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
51 162127997-0073	LINOLEUM FLOORING - BEIGE	Beige Fibrous Homogeneous	5% Synthetic 5% Glass	90.0% Non-fibrous (Other)	None Detected
52 162127997-0074	COUNTER TOP MASTIC - BEIGE	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
53 162127997-0075	COVE BASE - GRAY	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
54 162127997-0076	COVE BASE MASTIC - BEIGE	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
55 162127997-0077	2X2 FIBERGLASS CEILING TILE - YELLOW	Yellow Fibrous Homogeneous	98% Glass	2.0% Non-fibrous (Other)	None Detected
56 162127997-0078	DRYWALL - WHITE	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10.0% Non-fibrous (Other)	None Detected
57 162127997-0079	DRYWALL TAPE - BEIGE	Beige Fibrous Homogeneous	98% Cellulose	2.0% Non-fibrous (Other)	None Detected
58A 162127997-0080	DRYWALL MUD - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
58B 162127997-0081	DRYWALL MUD - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
58C 162127997-0082	DRYWALL MUD - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
59A 162127997-0083	TEXTURE - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
59B 162127997-0084	TEXTURE - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
59C 162127997-0085	TEXTURE - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
60A 162127997-0086	FLOOR LEVELER - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
60B 162127997-0087	FLOOR LEVELER - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
60C 162127997-0088	FLOOR LEVELER - WHITE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
61 162127997-0089	12X12 FLOOR TILE - GRAY	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
62 162127997-0090	FLOOR TILE MASTIC - YELLOW	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
63 162127997-0091	COVE BASE - GREEN	Green Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
64 162127997-0092	9X9 FLOOR TILE - BLACK	Beige Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
65 162127997-0093	FLOOR TILE MASTIC - BLACK	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
66 162127997-0094	SINK UNDERCOAT - BLACK	Black Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
67 162127997-0095	PIPE WRAP - BROWN	Brown Fibrous Homogeneous	98% Cellulose	2.0% Non-fibrous (Other)	None Detected
68A 162127997-0096	PIPE INSULATION - BEIGE	Beige Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
68B 162127997-0097	PIPE INSULATION - BEIGE	Beige Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
68C 162127997-0098	PIPE INSULATION - BEIGE	Beige Fibrous Homogeneous	98% Cellulose	2.0% Non-fibrous (Other)	None Detected
69A 162127997-0099	PIPE FITTING - WHITE	White Fibrous Homogeneous	5% Cellulose 50% MinWool	45.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
69B 162127997-0100	PIPE FITTING - WHITE	White Fibrous Homogeneous	5% Cellulose 50% MinWool	45.0% Non-fibrous (Other)	None Detected
69C 162127997-0101	PIPE FITTING - WHITE	White Fibrous Homogeneous	5% Cellulose 50% MinWool	45.0% Non-fibrous (Other)	None Detected
70A 162127997-0102	TANK INSULATION - WHITE	White Fibrous Homogeneous	50% MinWool	50.0% Non-fibrous (Other)	None Detected
70B 162127997-0103	TANK INSULATION - WHITE	White Fibrous Homogeneous	50% MinWool	50.0% Non-fibrous (Other)	None Detected
70C 162127997-0104	TANK INSULATION - WHITE	Gray Fibrous Homogeneous	70% MinWool	30.0% Non-fibrous (Other)	None Detected
71 162127997-0105	12X12 FLOOR TILE - BEIGE	Beige Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
72 162127997-0106	FLOOR TILE MASTIC - BLACK	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
73 162127997-0107	WINDOW CAULK - BROWN	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
74 162127997-0108	12X12 FLOOR TILE - BEIGE	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Report amended: 12/01/2021 10:59:48 Replaces amended report from: 12/01/2021 10:38:15 Reason Code: DataEntry-Other (see report comment)



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EMSL Order: 162127997
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Tyler Silverthorn
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9550 Hickman Road
Suite 105
Clive, IA 50325
Project: Woodbury County - Prairie Hills

Phone: (515) 468-1105
Fax: (515) 528-8005
Received Date: 11/24/2021 1:30 PM
Analysis Date: 11/30/2021
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
75 162127997-0109	FLOOR TILE MASTIC - YELLOW	White/Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
76A 162127997-0110	PIPE INSULATION - WHITE	White Fibrous Homogeneous	5% Cellulose 50% MinWool	45.0% Non-fibrous (Other)	None Detected
76B 162127997-0111	PIPE INSULATION - WHITE	White Fibrous Homogeneous	5% Cellulose 50% MinWool	45.0% Non-fibrous (Other)	None Detected
76C 162127997-0112	PIPE INSULATION - WHITE	Tan Fibrous Homogeneous	5% Cellulose 70% MinWool	25.0% Non-fibrous (Other)	None Detected
77 162127997-0113	FLOOR TILE MASTIC - YELLOW	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
78 162127997-0114	DOOR CAULK - BEIGE	Brown/Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
79 162127997-0115	2X2 CEILING TILE - ROUGH TEXTURE - BEIGE	Gray/White Fibrous Homogeneous	95% MinWool	5.0% Non-fibrous (Other)	None Detected
80 162127997-0116	2X2 CEILING TILE - MED TEXTURE - GRAY	Gray/White Fibrous Homogeneous	60% Cellulose 20% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected
81 162127997-0117	2X4 CEILING TILE - PINS GOUGE - BEIGE	Gray/White Fibrous Homogeneous	60% Cellulose 20% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Report amended: 12/01/2021 10:59:48 Replaces amended report from: 12/01/2021 10:38:15 Reason Code: DataEntry-Other (see report comment)



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EMSL Order: 162127997
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Tyler Silverthorn
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Project: Woodbury County - Prairie Hills

Phone: (515) 468-1105
Fax: (515) 528-8005
Received Date: 11/24/2021 1:30 PM
Analysis Date: 11/30/2021
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
82A 162127997-0118	STUCCO - BEIGE	Beige Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
82B 162127997-0119	STUCCO - BEIGE	Beige Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
82C 162127997-0120	STUCCO - BEIGE	Beige Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
83 162127997-0121	WINDOW CAULK - BLACK	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
84 162127997-0122	ROOF PAPER - MID LAYER - BLACK	Black Fibrous Homogeneous		75.0% Non-fibrous (Other)	25% Chrysotile
85 162127997-0123	ROOF TAR - MID LAYER - BLACK	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
86 162127997-0124	ROOF INSULATION BOARD - BROWN	Brown Fibrous Homogeneous	85% Cellulose	10% Perlite 5.0% Non-fibrous (Other)	None Detected
87 162127997-0125	ROOF PAPER - BOTTOM LAYER - BLACK	Black Fibrous Homogeneous	30% Cellulose	70.0% Non-fibrous (Other)	None Detected
88 162127997-0126	ROOF TAR - BOTTOM LAYER - BLACK	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Report amended: 12/01/2021 10:59:48 Replaces amended report from: 12/01/2021 10:38:15 Reason Code: DataEntry-Other (see report comment)



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EMSL Order: 162127997
Customer ID: IMPA25
Customer PO:
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Phone: (515) 468-1105
Fax: (515) 528-8005
Received Date: 11/24/2021 1:30 PM
Analysis Date: 11/30/2021
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
89 162127997-0127	VENT CAULK - BLACK	Gray/Black Non-Fibrous Homogeneous		97.0% Non-fibrous (Other)	3% Chrysotile
90 162127997-0128	ROOF CAULK - BLACK	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
91 162127997-0129	ROOF CAULK - BEIGE	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
92 162127997-0130	VENT TAR - BLACK	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
93 162127997-0131	ROOF PAPER - BLACK	Black Fibrous Homogeneous	60% Glass	40.0% Non-fibrous (Other)	None Detected
94 162127997-0132	ROOF TAR - BLACK	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
95 162127997-0133	SHINGLE - BLACK	Tan/Black Fibrous Homogeneous	15% Glass	85.0% Non-fibrous (Other)	None Detected
96 162127997-0134	TAR PAPER - BLACK	Black Fibrous Homogeneous	15% Glass	85.0% Non-fibrous (Other)	None Detected
97A 162127997-0135	PLASTER SKIM COAT - GRAY	Gray/White Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	<1% Chrysotile

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Report amended: 12/01/2021 10:59:48 Replaces amended report from: 12/01/2021 10:38:15 Reason Code: DataEntry-Other (see report comment)



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Customer ID: IMPA25
Customer PO:
Project ID:

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Phone: (515) 468-1105
Fax: (515) 528-8005
Received Date: 11/24/2021 1:30 PM
Analysis Date: 11/30/2021
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
97B 162127997-0136	PLASTER SKIM COAT - GRAY	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
97C 162127997-0137	PLASTER SKIM COAT - GRAY	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
98A 162127997-0138	BOILER INSULATION - WHITE	Gray Fibrous Homogeneous		78.0% Non-fibrous (Other)	20% Amosite 2% Chrysotile
98B 162127997-0139	BOILER INSULATION - WHITE	Gray Fibrous Homogeneous		80.0% Non-fibrous (Other)	10% Amosite 10% Chrysotile
98C 162127997-0140	BOILER INSULATION - WHITE	Gray Fibrous Homogeneous		78.0% Non-fibrous (Other)	2% Amosite 20% Chrysotile
99 162127997-0141	BOILER WRAP - BEIGE	Beige Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
100 162127997-0142	BOILER GASKET - WHITE	White Fibrous Homogeneous	98% Glass	2.0% Non-fibrous (Other)	None Detected
101 162127997-0143	DOOR CAULK - BROWN	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
102 162127997-0144	EXPANSION JOINT COMPOUND - BEIGE	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Report amended: 12/01/2021 10:59:48 Replaces amended report from: 12/01/2021 10:38:15 Reason Code: DataEntry-Other (see report comment)



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EMSL Order: 162127997
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Tyler Silverthorn
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Project: Woodbury County - Prairie Hills

Phone: (515) 468-1105
Fax: (515) 528-8005
Received Date: 11/24/2021 1:30 PM
Analysis Date: 11/30/2021
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
103 162127997-0145	DRAIN CAULK - BEIGE	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
104 162127997-0146	OVERHANG - GRAY	Gray Fibrous Homogeneous		80.0% Non-fibrous (Other)	20% Chrysotile
105 162127997-0147	WINDOW CAULK - BROWN	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
106 162127997-0148	VENT CAULK - BROWN	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
107 162127997-0149	EXPANSION JOINT COMPOUND - GRAY	Gray/Tan Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
108 162127997-0150	WINDOW GLAZING - GRAY	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
109 162127997-0151	EXPANSION JOINT COMPOUND - BEIGE	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
110 162127997-0152	WINDOW CAULK - WHITE	Tan/White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Report amended: 12/01/2021 10:59:48 Replaces amended report from: 12/01/2021 10:38:15 Reason Code: DataEntry-Other (see report comment)



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EMSL Order: 162127997
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Tyler Silverthorn
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Project: Woodbury County - Prairie Hills

Phone: (515) 468-1105
Fax: (515) 528-8005
Received Date: 11/24/2021 1:30 PM
Analysis Date: 11/30/2021
Collected Date:

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:	11/24/2021	Sample Receipt Time:	1:30 PM
Analysis Completed Date:	11/30/2021	Analysis Completed Time:	4:36 PM

Analyst(s):

Maggie Hayden PLM (131)

Ross Matlock PLM (21)

Samples Reviewed and approved by:

Asbestos Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Report amended: 12/01/2021 10:59:48 Replaces amended report from: 12/01/2021 10:38:15 Reason Code: DataEntry-Other (see report comment)



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EMSL Order: 162127997
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ProjectID:

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Phone: (515) 473-6256
Fax: (515) 528-8005
Received: 11/24/2021 01:30 PM
Analysis Date: 12/7/2021
Collected:

Project: **Woodbury County - Prairie Hills**

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	DESCRIPTIO	APPEARANCE	(%) Matrix		NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
			Organic	Acid			
73 162127997-0107	WINDOW CAULK - BROWN	Brown Non-Fibrous Homogeneous	42.1	0.0		57.9 Non-fibrous (other)	<0.25 Chrysotile
78 162127997-0114	DOOR CAULK - BEIGE	Brown/Beige Non-Fibrous Homogeneous	46.4	0.0		53.2 Non-fibrous (other)	0.4 Chrysotile

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0

Initial report from 12/03/2021 13:44:18



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Attn: **Tyler Silverthorn**
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Phone: (515) 473-6256
Fax: (515) 528-8005
Received: 11/24/2021 01:30 PM
Analysis Date: 12/7/2021
Collected:

Project: **Woodbury County - Prairie Hills**

The samples in this report were submitted to EMSL for analysis by Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:: 11/24/2021 Sample Receipt Time: 1:30 PM
Analysis Completed Date: 12/7/2021 Analysis Completed Time: 9:52 AM

Analyst(s):

Maggie Hayden PLM 400 PC - Gravimetric (2)

Samples reviewed and approved by:

Asbestos Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. EMSL suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. Estimation of uncertainty is available on request.
Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0

Initial report from 12/03/2021 13:44:18

**EMSL Analytical, Inc.**

6340 CastlePlace Dr., Indianapolis, IN 46250
 Phone/Fax: (317) 803-2997 / (317) 803-3047
<http://www.EMSL.com> indianapolislab@emsl.com

EMSL Order: 162127997
 CustomerID: IMPA25
 CustomerPO:
 ProjectID:

Attn: **Tyler Silverthorn**
Impact7G
9550 Hickman Road
Suite 105
Clive, IA 50325

Phone: (515) 473-6256
 Fax: (515) 528-8005
 Received: 11/24/2021 01:30 PM
 Analysis Date: 12/3/2021
 Collected:

Project: **Woodbury County - Prairie Hills**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
34 162127997-0046	2X2 CEILING TILE - PINS LONG GOUGE - GRAY	Gray/White Fibrous Homogeneous	95.00% Min. Wool	3.80% Non-fibrous (other)	1.25% Chrysotile
35A 162127997-0047	PIPE ELBOW - WHITE	White Fibrous Homogeneous	30.00% Min. Wool	69.75% Non-fibrous (other)	0.25% Amosite
35B 162127997-0048	PIPE ELBOW - WHITE	White Fibrous Homogeneous	30.00% Min. Wool	69.75% Non-fibrous (other)	0.25% Amosite
35C 162127997-0049	PIPE ELBOW - WHITE	White Fibrous Homogeneous	30.00% Min. Wool	69.50% Non-fibrous (other)	0.50% Amosite
44A 162127997-0058	PIPE ELBOW - WHITE	White Fibrous Homogeneous	30.00% Min. Wool	70.00% Non-fibrous (other)	<0.25% Amosite
44B 162127997-0059	PIPE ELBOW - WHITE	White Fibrous Homogeneous	30.00% Min. Wool	69.75% Non-fibrous (other)	0.25% Amosite
44C 162127997-0060	PIPE ELBOW - WHITE	White Fibrous Homogeneous	30.00% Min. Wool	69.50% Non-fibrous (other)	0.50% Amosite
97A 162127997-0135	PLASTER SKIM COAT - GRAY	Gray/White Non-Fibrous Homogeneous		20.00% Quartz 80.00% Non-fibrous (other)	<0.25% Chrysotile

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0

Initial report from 12/03/2021 13:44:18

**EMSL Analytical, Inc.**

6340 CastlePlace Dr., Indianapolis, IN 46250
 Phone/Fax: (317) 803-2997 / (317) 803-3047
<http://www.EMSL.com> indianapolislab@emsl.com

EMSL Order: 162127997
 CustomerID: IMPA25
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 ProjectID:

Attn: **Tyler Silverthorn**
Impact7G
9550 Hickman Road
Suite 105
Clive, IA 50325

Phone: (515) 473-6256
 Fax: (515) 528-8005
 Received: 11/24/2021 01:30 PM
 Analysis Date: 12/3/2021
 Collected:

Project: **Woodbury County - Prairie Hills**

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date::	11/24/2021	Sample Receipt Time:	1:30 PM
Analysis Completed Date:	12/3/2021	Analysis Completed Time:	11:48 AM

Analyst(s):

Paul Rihm PLM 400 Point Count (8)

Samples reviewed and approved by:

Asbestos Laboratory Manager
 or other approved signatory




EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.
 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0

Initial report from 12/03/2021 13:44:18

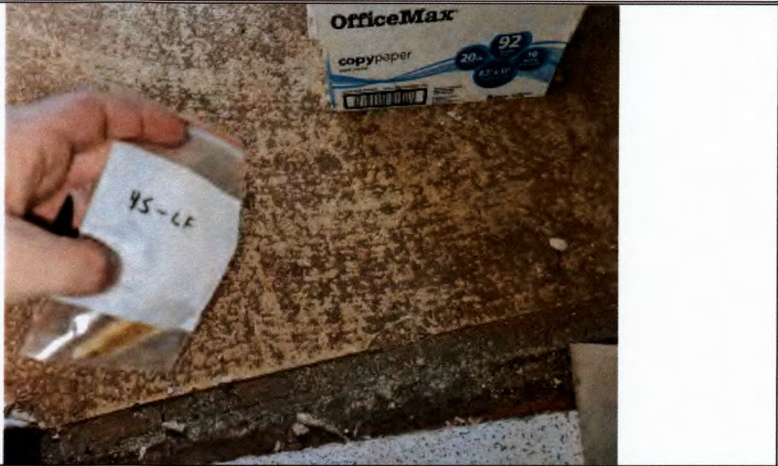


APPENDIX C

Photographs




Photograph table includes photos of all asbestos-containing materials.

<p>11/18/21 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1600 County Home Road Sergeant Bluff, Iowa</p>	
<p>Description:</p> <p>ACM Fire Door Insulation, 3rd Floor Mid Hall Stairway</p> <p>Sample 13abc</p> <p>Photo #1</p>		
<p>Description:</p> <p>ACM Linoleum Flooring, 3rd Floor NE Stairway</p> <p>Sample 26</p> <p>Photo #2</p>		
<p>Description:</p> <p>ACM 2'x'2 Ceiling Tile, Pins Long Gouge, 2nd Floor W Bathroom</p> <p>Sample 34</p> <p>Photo #3</p>		




Photograph table includes photos of all asbestos-containing materials. (continued)

<p>11/18/21 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1600 County Home Road Sergeant Bluff, Iowa</p>	
<p>Description:</p> <p>ACM Linoleum Flooring, 2nd Floor SE Room</p> <p>Sample 45</p> <p>Photo #4</p>		 A hand is holding a clear plastic sample bag with a white label that reads "45-LF". The bag is positioned over a textured, brownish surface, likely linoleum flooring. In the background, a blue and white box of OfficeMax copy paper is visible.
<p>Description:</p> <p>ACM Sink Undercoat, 1st Floor NE Med Room</p> <p>Sample 50</p> <p>Photo #5</p>		 A hand is holding a clear plastic sample bag with a white label that reads "50-SU". The bag is positioned next to a dark, circular sink drain. The background is dark and appears to be the underside of a sink.
<p>Description:</p> <p>ACM 9"x9" Floor Tile, 1st Floor Kitchen S Room</p> <p>Sample 64</p> <p>Photo #6</p>		 A hand is holding a clear plastic sample bag with a white label that reads "64-FT". The bag is positioned next to a damaged, dark-colored floor tile. The surrounding floor is light-colored and shows signs of wear and debris.


Photograph table includes photos of all asbestos-containing materials. (continued)

<p>11/18/21 and 11/22/21 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1600 County Home Road Sergeant Bluff, Iowa</p>	
<p>Description: ACM Sink Undercoat, 1st Floor Kitchen Sample 66 Photo #7</p>		 A hand is holding a clear plastic bag with a white label that has '66-SU' handwritten on it. The bag is positioned next to a dark, textured surface, which is the sink undercoat. A metal pipe is visible in the background.
<p>Description: ACM 12"x12" Floor Tile, 1st Floor Connector E Room Sample 71 Photo #8</p>		 A hand is holding a clear plastic bag with a white label that has '71-FT' and '72-FTA' handwritten on it. The bag is positioned next to a dark, textured floor tile. The surrounding area is a light-colored floor.
<p>Description: ACM Roof Paper, Mid Layer Sample 84 Photo #9</p>		 A clear plastic bag with a white label that has '84-RP' and '85-RP' handwritten on it is placed on a pile of debris. The debris consists of various colored rocks, pebbles, and pieces of material.

Photograph table includes photos of all asbestos-containing materials. (continued)

11/22/21 Photographer: Tyler Silverthorn	Asbestos Containing Materials Inspection 1600 County Home Road Sergeant Bluff, Iowa	
Description: ACM Vent Caulk, Roof Sample 89 Photo #10		
Description: ACM Boiler Insulation, Basement Boiler Room Sample 98abc Photo #11		
Description: ACM Overhang, Exterior S Addition Sample 104 Photo #12		

Photograph table includes photos of all asbestos-containing materials. (continued)

<p>11/22/21 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1600 County Home Road Sergeant Bluff, Iowa</p>
<p>Description:</p> <p>ACM Expansion Joint Compound, Exterior Building 1 N Side Above Window</p> <p>Sample 107</p> <p>Photo #13</p>	



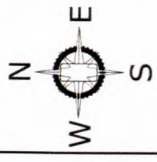
JOB DESCRIPTION

ACM Inspection
1600 County Home Road
Sergeant Bluff, Iowa

SHEET TITLE:

ACM Positive Summary Map
Exterior

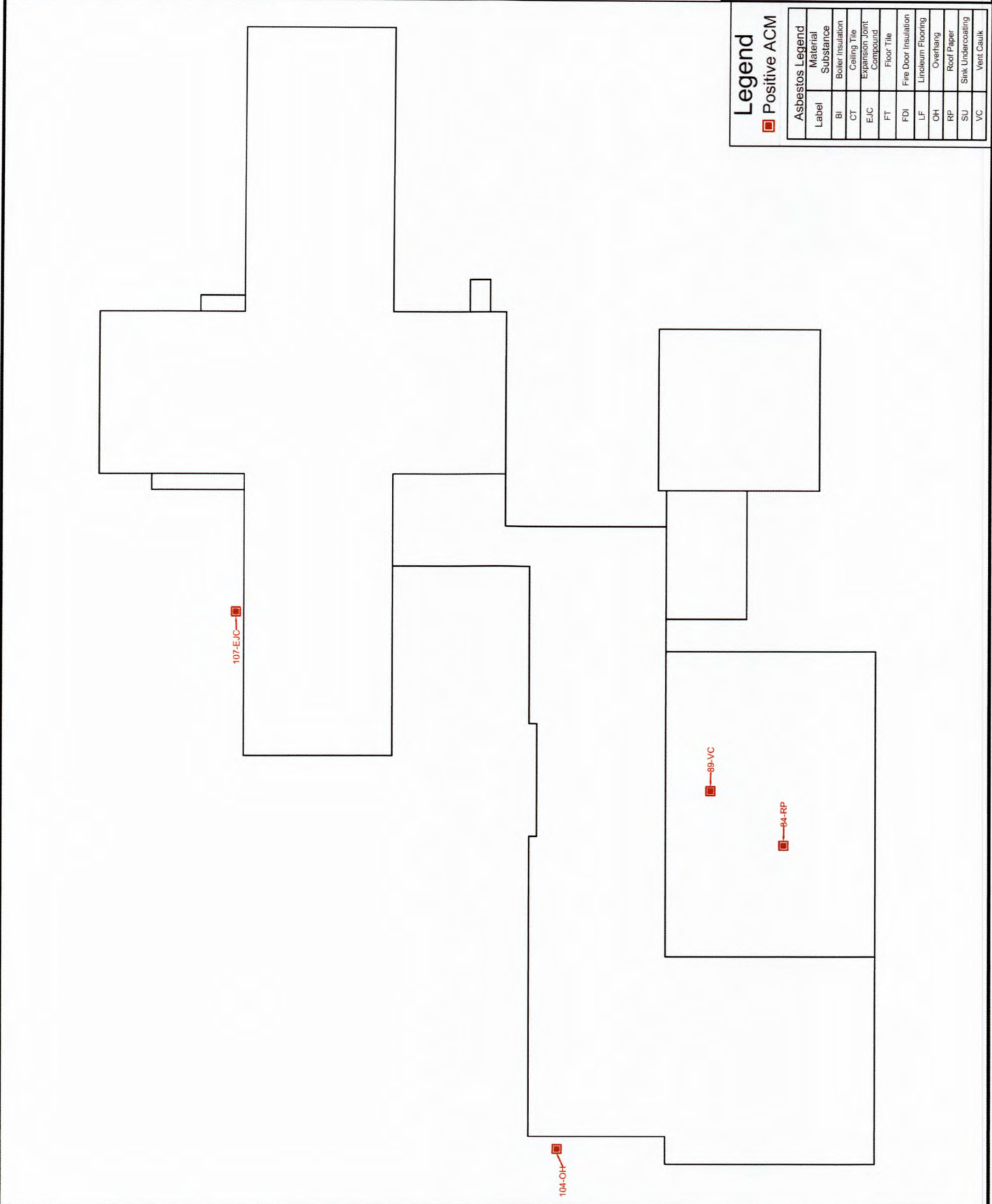
DATE:	12/02/21
DRAWN BY:	TS
CHECKED BY:	JR
SCALE:	N/A
PROJECT NO:	Woodbury County



Legend

Positive ACM

Asbestos Legend	
Label	Material Substance
BI	Boiler Insulation
CT	Ceiling Tile
EJC	Expansion Joint Compound
FT	Floor Tile
FDI	Fire Door Insulation
LF	Linoleum Flooring
OH	Overhang
RP	Roof Paper
SU	Sink Undercoating
VC	Vent Caulk





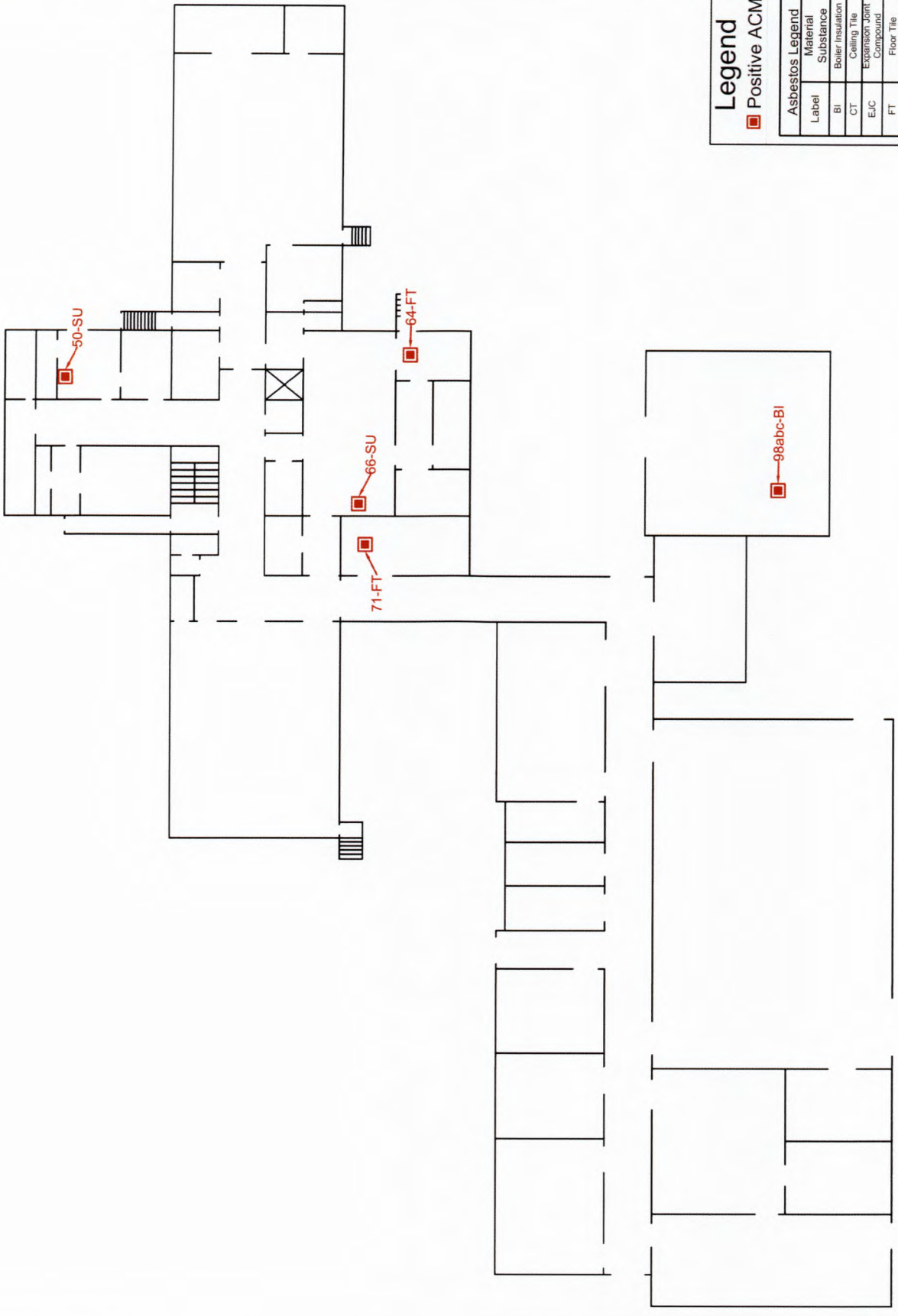
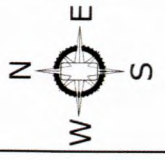
Legend
 ■ Positive ACM

Asbestos Legend Label	Material Substance
BI	Boiler Insulation
CT	Ceiling Tile
EJC	Expansion Joint Compound
FT	Floor Tile
FDI	Fire Door Insulation
LF	Linoleum Flooring
OH	Overhang
RP	Roof Paper
SU	Sink Undercoating
VC	Vent Caulk

JOB DESCRIPTION
 ACM Inspection
 1600 County Home Road
 Sergeant Bluff, Iowa

SHEET TITLE
 ACM Positive Summary Map
 1st Floor

DATE: 12/02/21
 DRAWN BY: TS
 CHECKED BY: JR
 SCALE: N/A
 PROJECT NO: Woodbury County





SHEET TITLE:
JOB DESCRIPTION:

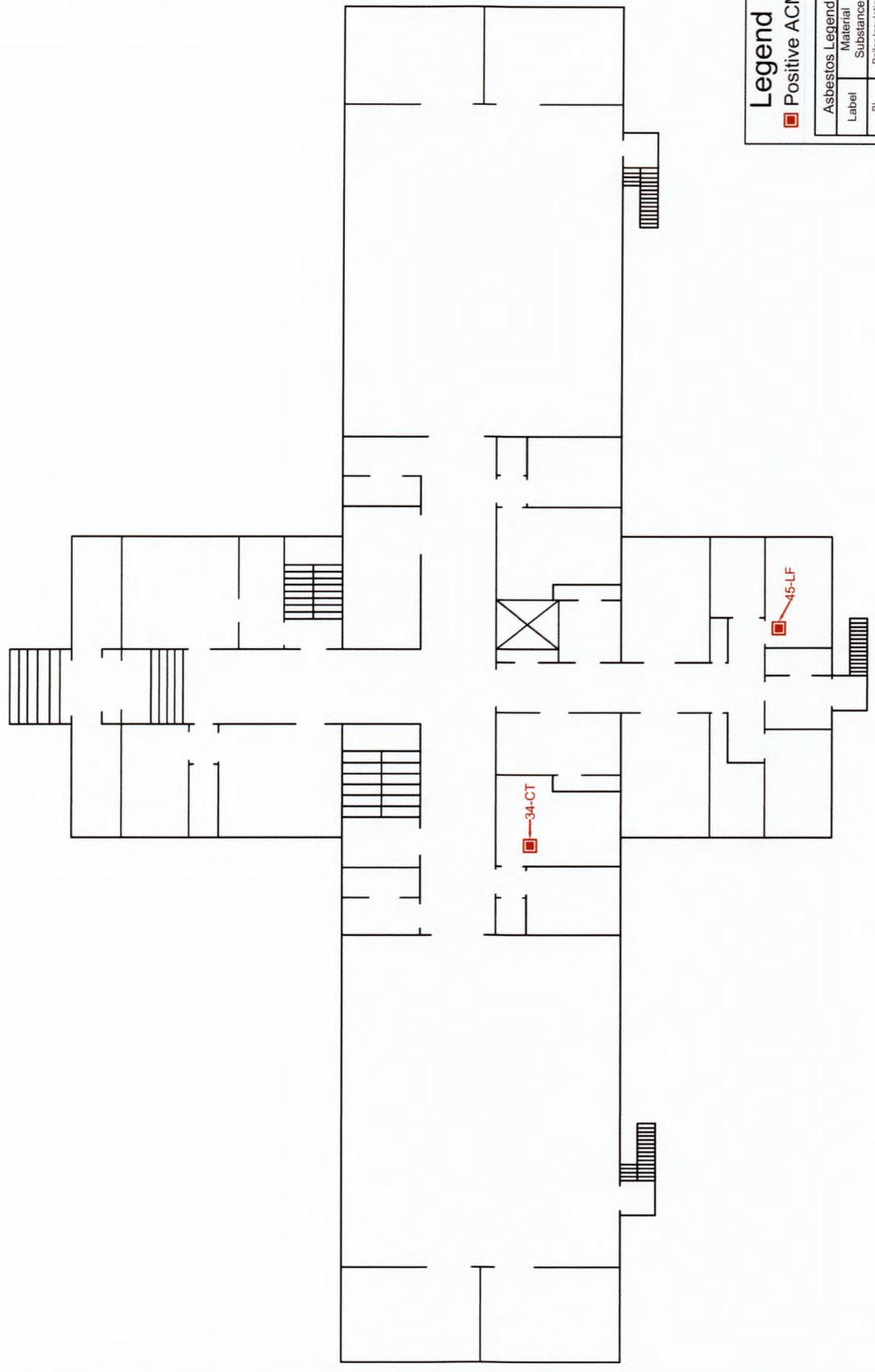
ACM Inspection
1600 County Home Road
Sergeant Bluff, Iowa
ACM Positive Summary Map
2nd Floor

DATE:	12/02/21
DRAWN BY:	TS
CHECKED BY:	JR
SCALE:	N/A
PROJECT NO:	Woodbury County



Legend
Positive ACM

Label	Material Substance
BI	Boiler Insulation
CT	Ceiling Tile
EJC	Expansion Joint Compound
FT	Floor Tile
FDI	Fire Door Insulation
LF	Linoleum Flooring
OH	Overhang
RP	Roof Paper
SU	Sink Undercoating
VC	Vent Caulk

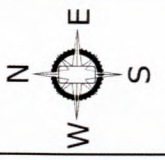




SHEET TITLE:
JOB DESCRIPTION:

ACM Positive Summary Map
3rd Floor
1600 County Home Road
Sergeant Bluff, Iowa
ACM Inspection

DATE:	12/02/21
DRAWN BY:	TS
CHECKED BY:	JR
SCALE:	N/A
PROJECT NO:	Woodbury County



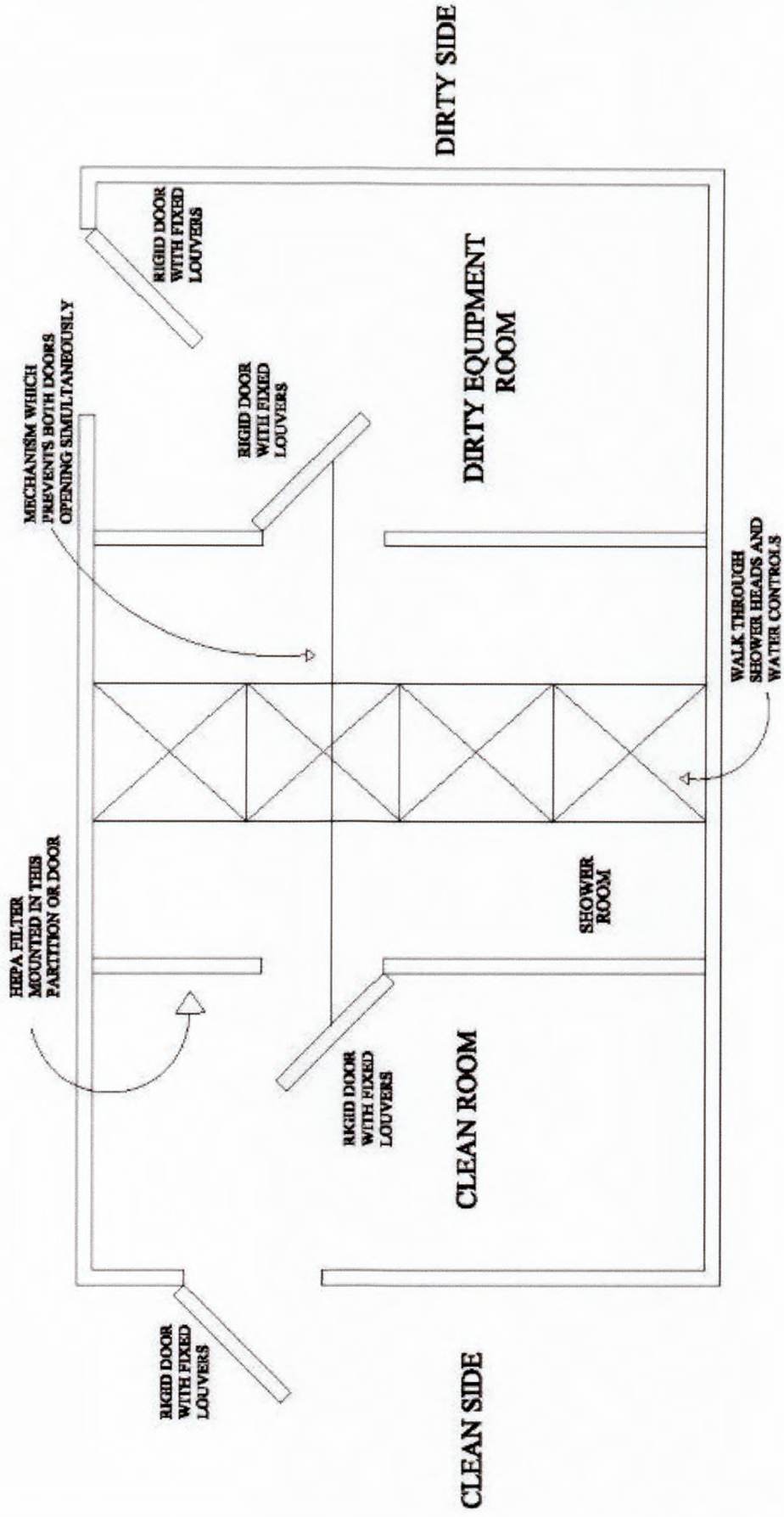
Legend
Positive ACM

Asbestos Legend Label	Material Substance
BI	Boiler Insulation
CT	Ceiling Tile
EJC	Expansion Joint Compound
FT	Floor Tile
FDI	Fire Door Insulation
LF	Limestone Flooring
OH	Overhang
RP	Roof Paper
SU	Sink Undercoating
VC	Vent Caulk



APPENDIX 3 – Asbestos Diagrams and Field Forms

PERSONNEL DECONTAMINATION UNIT





CERTIFICATION OF VISUAL INSPECTION

BUILDING NAME _____

ADDRESS _____

ABATEMENT COMPANY _____

The contractor and industrial hygienist hereby certify that they have visually inspected the work area (all surfaces including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc.) and have found no dust, debris, or residue to the best of their knowledge.

DATE	REMOVAL AREA	MATERIALS REMOVED	SUPERVISOR NAME & SIGNATURE	HYGIENIST NAME & SIGNATURE
			Print	Print
			Signature	Signature
			Print	Print
			Signature	Signature
			Print	Print
			Signature	Signature
			Print	Print
			Signature	Signature

NOTES:

WASTE SHIPMENT RECORD

G E N E R A T O R	1. Work site name and mailing address	Owner's name	Owner's telephone number
	2. Operator's name and address	Operator's telephone number	
		Waste Generator Number	
	3. Waste disposal site (WDS) name, mailing address, and physical site location	WDS telephone number	
	4. Name and address of responsible agency		
	5. Description of materials	6. Containers	7. Total Quantity m ³ (yd ³)
	<u>Asbestos, ID # NA 2212, PACKAGING GROUP 111</u>		
	8. Special handling instructions and additional information		
9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.			
Printed/typed name and title		Signature	Month Day Year
T R A N S P O R T E R	10. Transporter 1 (Acknowledgment of receipt of materials)		
	Printed/typed name and title	Signature	Month Day Year
	Address & telephone number		
	11. Transporter 2 (Acknowledgment of receipt of materials)		
	Printed/typed name and title	Signature	Month Day Year
	Address & telephone number		
D I S S P I O T S E A L	12. Discrepancy indication space		
	13. Waste disposal site owner or operator: Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.		
	Printed/typed name & title	Signature	Month Day Year

**APPENDIX 4 – Iowa DNR 10-Day
Notification Form**



ASBESTOS NOTIFICATION OF DEMOLITION AND RENOVATION

DNR USE ONLY			
CON 10-15	County #:		
Date:		Initials:	
<input type="checkbox"/> Check/Money Order <input type="checkbox"/> Credit Card <input type="checkbox"/> Cash			

This notice must be postmarked at least ten (10) working days before beginning the activity. All applicable information must be included.

Notification Fee: Effective beginning January 15, 2016, each required **Original** or **Annual** notification must be accompanied by the fee required by 567 IAC 30.3(1).

567 IAC 30.3(1) Payment of fees established. Beginning on January 15, 2016, the owner or operator of a site subject to the national emission standard for hazardous air pollutants (NESHAP) for asbestos notifications adopted by reference in paragraph 23.1(3)"a," shall submit a fee with each required original or each annual notification for each demolition or renovation, including abatement.

Fees are **not** required for the following:

- a. Notifications when the total amount of asbestos to be removed or disturbed is less than 260 linear feet, less than 160 square feet, and less than 35 cubic feet of facility components and is below the reporting thresholds as defined in 40 CFR 61.145 as amended on January 16, 1991;
- b. Notifications of training fires as required in 567—paragraph 23.2(3)"g";
- c. Controlled burning of demolished buildings as required in 567—paragraph 23.2(3)"j";
- d. Revised, canceled, and courtesy notifications. A revision to a previously submitted courtesy notification due to applicability of the notification requirements in 567—paragraph 23.1(3)"a" is considered an original notification and is subject to the fee requirements of subrule 30.3(1).

Each required fee is \$100 payable to "Iowa Department of Natural Resources" in the form of a check, money order, credit card or cash. Please do not send cash in the mail.

Owner or Operator Name Paying Fee: _____ Phone #: _____
 \$100 Fee Enclosed Contact for Credit Card Payment or State Agency

1. Type of Notification

- Original (Fee) Revised Cancelled Courtesy Annual (Fee)

2. Type of Operation

(Each Type of Operation requiring an original notification must be accompanied by a separate \$100 fee.)

- Abatement Demolition
 Renovation Ordered Demolition
 Emergency Renovation

3. Is Asbestos Present?

- Yes No – Abatement has already occurred
 No – Asbestos found is under NESHAP limits

4. Scheduled Dates asbestos removal (MM/DD/YY) Start: _____ **Stop:** _____

5. Scheduled Dates Demo/Renovation (MM/DD/YY) Start: _____ **Stop:** _____

6. Facility Description (Include building name, number and floor or room number.)

Building Name: _____

Address: _____ **County:** _____

City: _____ **State:** _____ **Zip:** _____

Site Location (floor or room number(s)): _____

Building Size: _____ **No of floors:** _____ **Year Constructed:** _____

Present Use: _____ **Prior Use:** _____

7. Facility Information (Identify owner, and operator)

Owner Name: _____

Address: _____

City: _____ **State:** _____ **Zip:** _____

Contact: _____ **Phone:** _____

Operator (if different from owner): _____

Address: _____

City: _____ State: _____ Zip: _____

Contact: _____ Phone: _____

8. Asbestos Abatement Contractor (if applicable)

Contractor Name: _____ IA Permit Number: _____

Address: _____

City: _____ State: _____ Zip: _____

Contact: _____ Phone: _____

9. Demolition Contractor (if applicable)

(if ordered demolition)

Contractor Name: _____ IA Permit Number: _____

Address: _____

City: _____ State: _____ Zip: _____

Contact: _____ Phone: _____

10. Asbestos Inspector (required unless an Ordered Demolition or Emergency Renovation)

Name of Inspector: _____ IA License Number: _____

Date Inspected: _____ Phone: _____

11a. Approximate Amount of Asbestos (for Abatement purposes only)	Regulated Asbestos-Containing Material (RACM) to be Removed	Nonfriable Asbestos-Containing Material Not To Be Removed (Category I and II)
Total Surface Area (Sq. Ft.) (Also see 11b.)		
Facility Component(s) (Cu. Ft.)		
Pipes (Linear Ft.)		

11b. Quantity in Sq. Ft. the Total Surface Area of RACM to be removed from 11a (check all that apply)

Do not include Pipes or Facility Components

- Floor Materials _____ Ceiling Materials _____ Roofing Materials _____
 Interior Wall Systems _____ Spray-on Materials _____ Asbestos Cement Board _____
 Window Glaze/Caulk _____ Other: _____

12. Procedure, including analytical method, if appropriate, used to detect the presence of asbestos materials.

Polarized Light Microscopy (PLM) Other: _____

13. Description of work practices and engineering controls to be used to prevent asbestos emissions

(check all that apply)

- Adequately Wet Materials Glove Bag Seal in Leak Tight Containers Encapsulate
 Negative Air Containment Seal in Leak Tight Wrapping Mini-enclosure
 Lined Containers Other: _____

14. Description of planned demolition or renovation work (check all that apply)

- Backhoe Bulldozer Hand Removal
 Implosion Other: _____

15. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Contact: _____ Phone: _____

Waste Transporter #2 (if applicable)

Name: _____

Address: _____
City: _____ State: _____ Zip: _____
Contact: _____ Phone: _____

16. Waste Disposal Site #1

Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____

Waste Disposal Site #2 (if applicable)

Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____

17. If Demolition Ordered by a Government Agency, Identify the Agency and Attach a Copy of the Order

Name of Responsible Official: _____
Title: _____ Phone: _____
Authority: _____
Date of Order (MM/DD/YY): _____

18. If Emergency Renovation, Please Complete this Section

Date Emergency (MM/DD/YY): _____ Time of Emergency: _____
Description of the emergency of sudden event: _____

Explanation of how the event caused unsafe conditions or would cause equipment damage or an unreasonable financial burden:

19. Description of procedures to be followed if there is an unexpected asbestos fiber release:

STOP WORK AND CALL A CERTIFIED ASBESTOS CONTRACTOR AND THE DNR I agree

20. Certification (required if asbestos is present)

I certify that an individual trained in the provisions of regulation 40 CFR Part 61, Subpart M (Asbestos NESHAP) will be onsite during the demolition or renovation and evidence that the required training has been accomplished by this person will be available for inspection during normal business hours.

Name (Print) Title Date

Signature of Owner/Operator Company/Organization

21. I certify to the best of my knowledge that the above information is true and correct

Name (Print) Title Date

Signature of Owner/Operator Company/Organization

MAIL TO: Iowa DNR- Air Quality
502 E 9th St
Des Moines IA 50319
515-725-8200

INSTRUCTIONS
ASBESTOS NOTIFICATION OF DEMOLITION AND RENOVATION FORM

GENERAL INFORMATION

The Asbestos NESHAP, 40 CFR 61.145 and 567 IAC 23.1(3), requires written notification of demolition or renovation activities in facilities. In most cases, a facility includes all types of structures except single family homes and apartment buildings having no more than four units. The enclosed form must be used to fulfill this requirement. Only complete notification forms will be accepted.

The notification should be typewritten or neatly printed and postmarked or delivered no later than ten days prior to the beginning of either the asbestos removal activity (Section IV) or demolition activity (in Section V) whichever is applicable.

INSTRUCTIONS

1. **Type of Notification:** Check "Original" if the notification is a first time or original notification, "Revised" if the notification is a revision of a prior notification, or "Canceled" if the activity has been canceled. Check "Courtesy" if you would like to make DNR aware of a non-regulated project. Check "Annual" for projects in accordance with 40 CFR Part 61, Subpart M 61.145(a)(4)(iii).
2. **Type of Operation:** Check as appropriate for facility abatement, demolition, renovation, ordered demolitions, or emergency renovations. A notification for renovation is required only if asbestos was removed or still present but not being disturbed. However, if asbestos has been or will be removed, then a separate abatement notification form should be submitted by the appropriate part.
3. **Is Asbestos Present?** Answer "Yes," "No – Abatement has already occurred," or "No – Asbestos found is under NESHAP limits."
4. **Scheduled Dates of Asbestos Removal (MM-DD-YY):** Enter scheduled dates (month/day/year) for asbestos removal work. Asbestos removal work includes any activity, including site preparation, which may break up, dislodge or disturb asbestos material.
5. **Scheduled Dates of Demolition/Renovation (MM-DD-YY):** Enter scheduled dates (month/day/year) for beginning and ending the planned demolition or renovation project.
6. **Facility Description:** Provide the following information on the areas being renovated or demolished:

Building Address :	Physical location of site
Site Location (floor or room number)	Enter specific location
Building Size:	The building size in square feet.
No. of Floors:	Enter the number of floors including basement, if applicable.
Year Constructed:	Enter year the facility was originally constructed.
Present Use/Prior Use:	Describe the primary use of the facility or enter the following codes: AC – Apartment Complex, B – Boat/Ship, BR – Bridge, CH – Church, C – Commercial, F – Fire Damaged, G – Government, H – Hospital, I – Industrial, M – Miscellaneous, MG – Manufacturing, N – Nursing Home, O – Office, P – Public Building, R – Residence, S - School, U – University/College, V - Vacant

7. **Facility Information:** Enter the names, addresses, contact persons and telephone numbers of the following:
Owner: Legal owner of the site at which asbestos is being removed or demolition planned.
Operator: General contractor, or any other person who leases, operates, controls or supervises the site.

If known, the name of the site supervisor should be entered as the contact person for the notification. If additional parties share responsibility for the site, demolition activity, renovation or ACM removal, include complete information (including name, address, contact person and telephone number) on additional sheets submitted with the form.
8. **Asbestos Abatement Contractor:** If notification is being submitted for asbestos removal enter the name of contractor hired to remove asbestos, contractor permit number, address, contact, and phone number.
9. **Demolition Contractor:** If notification is being submitted for demolition or renovation enter the name of contractor hired, permit number, address, contact, and phone number.
10. **Asbestos Inspector:** Enter the individual who conducted the asbestos inspection prior to demolition/renovation, the inspector license number, date inspected and telephone number.
11. **a) Approximate Amount of Asbestos Including:** (1) Regulated ACM to be removed (including nonfriable ACM to be sanded, ground or abraded); and (2) Category I and Category II nonfriable asbestos containing material not to be removed. For both renovations and demolitions, enter the amount of RACM to be removed by entering a number in the appropriate box. If applicable, enter the amount of nonfriable ACM not to be removed during a demolition or renovation.

Category I nonfriable material includes packing, gaskets, resilient floor covering and asphalt roofing materials. Category II nonfriable material includes any material, excluding Category I materials, that when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure, or mechanical forces expected to operate on the material during the demolition or renovation activity. All Category II materials must be removed prior to demolition.

Complete the volume from facility component(s) if asbestos-containing materials have been removed from facility components and the volume is known.

b) Quantify in Sq. Ft. the Total Surface Area of RACM to be removed from 11a. Check the type of RACM to be removed and enter the square feet for each material. (Total 11b square feet should equal 11a square feet of RACM to be removed.) **Facility Components and Pipes are not included in 11b.**

12. **Asbestos Testing Procedure:** Check the appropriate box for the procedure that was used to determine asbestos content.
13. **Description of Work Practices and Engineering Controls to Prevent Asbestos Emissions:** Check the appropriate box(s) for work practices that will be employed to prevent asbestos emissions.
14. **Description of Planned Demolition or Renovation Work:** Check the appropriate box(s) that describe the renovation/ demolition technique(s) to be used.
15. **Waste Transporter(s):** Enter the name(s), addresses(s), contact person(s) and telephone number(s) of the person(s) or company(ies) responsible for transporting ACM from the removal site to the waste disposal site. If the removal contractor or owner is the waste transporter, state "same as owner" or "same as removal contractor."
16. **Waste Disposal Site:** Identify the waste disposal site, including the complete name, location, and telephone number of the facility. If ACM is to be disposed of at more than one site, provide complete information on an additional sheet submitted with the form.
17. **If Demolition Ordered by a Government Agency, Please Identify the Agency below:** Provide the name of the responsible official, title and agency, authority under which the order was issued and the date of the order. A copy of the order from the government agency must be attached to this form.
18. **Emergency Renovation Information:** Provide the date and time of the emergency, a description of the event and a description of unsafe conditions, equipment damage or financial burden resulting from the event. The information should be detailed enough to evaluate whether a renovation falls within the emergency exemption.
19. **Description of Procedures to be Followed in the Event that Unexpected Asbestos Fiber Release:** Provide adequate information to demonstrate that appropriate actions have been considered and can be implemented to control asbestos emissions adequately, including at a minimum, conformance with applicable work practice standards. Attach an additional sheet of paper if needed and submit with this form.
20. **Certification:** This is required if asbestos is present, i.e. abatements and ordered demolitions. Include signature, date, printed name, title, and company to certify that training provisions required by the asbestos NESHAP regulation will be followed.
21. **Information provided in notification is true and correct:** This is required for all notifications. Include signature, date, printed name, title, and company to certify the information provided is true and correct to the best of your knowledge.

APPENDIX 5 – Bid Plans

Woodbury County - 1600 County Home Road

Issued - FOR DEMOLITION

DRAWING INDEX:

GENERAL

G000 COVER SHEET

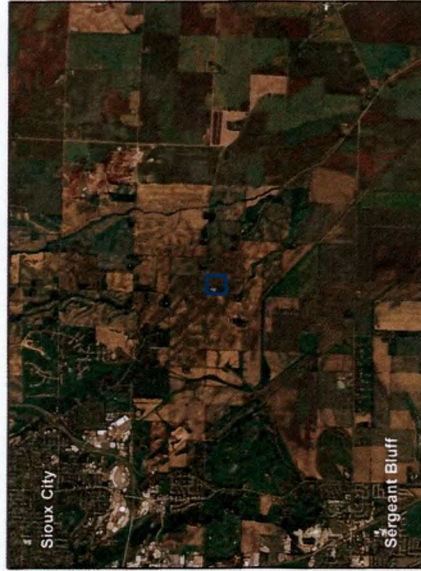
CIVIL

C001 GENERAL NOTES

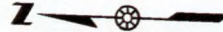
C100 SITE UTILITIES

C100A DEMOLITION SITE PLAN MAP

C100B DEMOLITION PHOTOS



Location Map



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

James G. Edmond DATE 6/8/22

JAMES G. EDMOND IOWA LICENSE NO. 10232 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2022

PAGES OR SHEETS COVERED BY THIS SEAL:
ALL SHEETS



8951 Windsor Parkway, Johnston, IA 50131
Office: 515.473.8256 Website: www.impact7g.com



PROJECT NAME.

PRAIRIE HILLS CENTER
1600 COUNTY HOME ROAD
SERGEANT BLUFF, IA 51054

OWNER.

WOODBURY COUNTY
620 DOUGLAS STREET
SIOUX CITY, IA 51101

SHEET/TITLE.

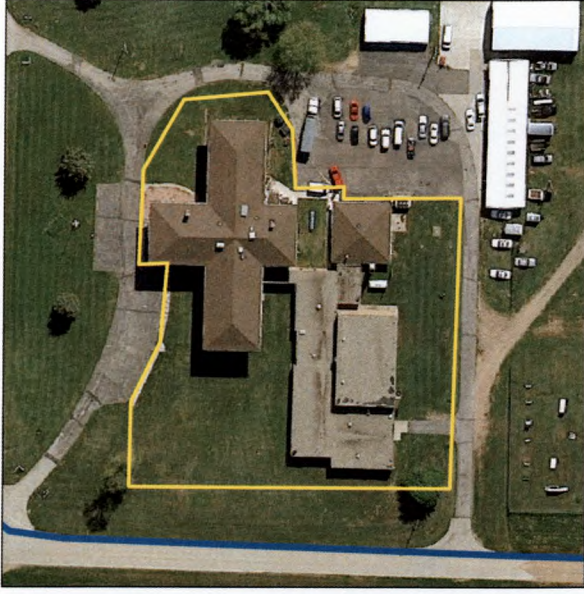
COVER SHEET

SHEETNO.

G000

GENERAL NOTES

1. ALL WORK IN PUBLIC RIGHT-OF-WAY AND SITE WORK SHALL BE IN ACCORDANCE WITH WOODBURY COUNTY STANDARDS AND THE SUDAS SPECIFICATIONS - 2021 EDITION. SPECIFICATION MANUALS CAN BE ORDERED FROM THE INSTITUTE FOR TRANSPORTATION - ATTN: BETH RICHARDS, 2711 SOUTH LOOP DRIVE, SUITE 4700, AMES, IOWA 50010-8664, PHONE: 515-294-2869. SPECIFICATIONS CAN ALSO BE VIEWED AT SUDAS WEB SITE (WWW.IOWASUDAS.ORG). CONTRACTOR SHALL HAVE A MINIMUM OF ONE SET OF PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
2. COORDINATE WORK AND COOPERATE WITH COUNTY PERSONNEL AND ENGINEER.
3. LOCATION OF EXISTING UTILITIES IS APPROXIMATE BASED ON OLD PLANS, PHYSICAL LOCATES AND UTILITY MAPPING. VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES IN SERVICE DURING CONSTRUCTION, THERE MAY BE BURIED UTILITIES NOT SHOWN ON PLANS.
4. CONTRACTOR SHALL COORDINATE WITH PUBLIC AND PRIVATE UTILITIES FOR TIMELY DISCONNECTION OF SERVICE PRIOR TO INITIATING DEMOLITION. PROPERLY DISCONNECT ALL PUBLIC AND PRIVATE UTILITIES.
5. PROTECT EXISTING UTILITIES AND STRUCTURES TO REMAIN FROM DAMAGE DURING DEMOLITION AS SHOWN ON PLANS. ANY UTILITIES DAMAGED DURING DEMOLITION THAT WERE TO REMAIN SHALL BE REPAIRED AT NO COST TO THE OWNER.
6. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL FOR ALL WORK WITHIN STREET AND HIGHWAY RIGHTS-OF-WAYS. TRAFFIC CONTROL SHALL CONSIST OF BARRICADE, SIGNAGE AND LIGHTS AS NECESSARY TO PROTECT VEHICLES IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND IOWA DOT STANDARD ROAD PLANS FOR TRAFFIC CONTROL. TRAFFIC CONTROL IS INCIDENTAL TO CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE ALL HAUL ROUTES WITH WOODBURY COUNTY.
8. ALL EXISTING PHYSICAL FEATURES, INCLUDING BUT NOT LIMITED TO, BUILDINGS, ARE TO BE REMOVED FROM SITE IN ACCORDANCE WITH SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
9. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS TO REMOVE AND PROPERLY DISPOSE OF SIDEWALKS, STEPS, DRIVEWAYS, AND STRUCTURES (INCLUDING BOTH ABOVE GROUND AND BELOW GROUND ELEMENTS.)
10. CONTRACTOR SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS TO REMOVE FUEL TANKS, SEPTIC TANKS, CISTERNS, AND ANY OTHER UNDERGROUND FACILITIES ENCOUNTERED; AND TO PROPERLY DISPOSE OF ANY LIQUIDS OR PRODUCTS CONTAINED WITHIN THESE ITEMS.
11. IF UNDERGROUND STORAGE TANKS ARE ENCOUNTERED, CONTACT LISA NIEDERMAYER AT LISA.NIEDERMAYER@DNR.IOWA.GOV. IF PETROLEUM CONTAMINATION IS ENCOUNTERED, CONTACT TAMMY VANDER BLOEMEN AT TAMMYVANDER_BLOEMEN@DNR.IOWA.GOV.
12. PROPERLY PLUG OR ABANDON WELLS IF ENCOUNTERED.
13. ALL REMOVAL EXCAVATIONS SHALL BE FILLED TO SURROUNDED GRADE. EXCAVATIONS SHOULD BE TOPPED WITH 4" OF TOPSOIL FROM SURROUNDING AREA. SITE SHALL BE GRADED TO DRAIN AS IS POSSIBLE.



TOTAL NUMBER OF SHEETS		5	
DESIGNED BY	DRAWN BY	CHECKED BY	SURVEY NOTES
	KK	JR	
ACTIVITY ID.	DATE		5/10/2022
PROJECT			
DEMOLITION OF PRAIRIE HILLS CENTER AT 1600 COUNTY HOME ROAD			
SHEET TITLE			
GENERAL NOTES			
SHEET	C.001		FILE NO.



0 15 30 60
 Feet

MARK		DATE		BY		PROJECT		TOTAL NUMBER OF SHEETS		DESIGNED BY		DRAWN BY		CHECKED BY		DATE	
						DEMOLITION OF PRAIRIE HILLS CENTER AT 1600 COUNTY HOME ROAD		5		JK		KK		JR		5/10/2022	
						SHEET TITLE DEMOLITION SITE PLAN MAP		SHEET		C. 100A		FILE NO.					



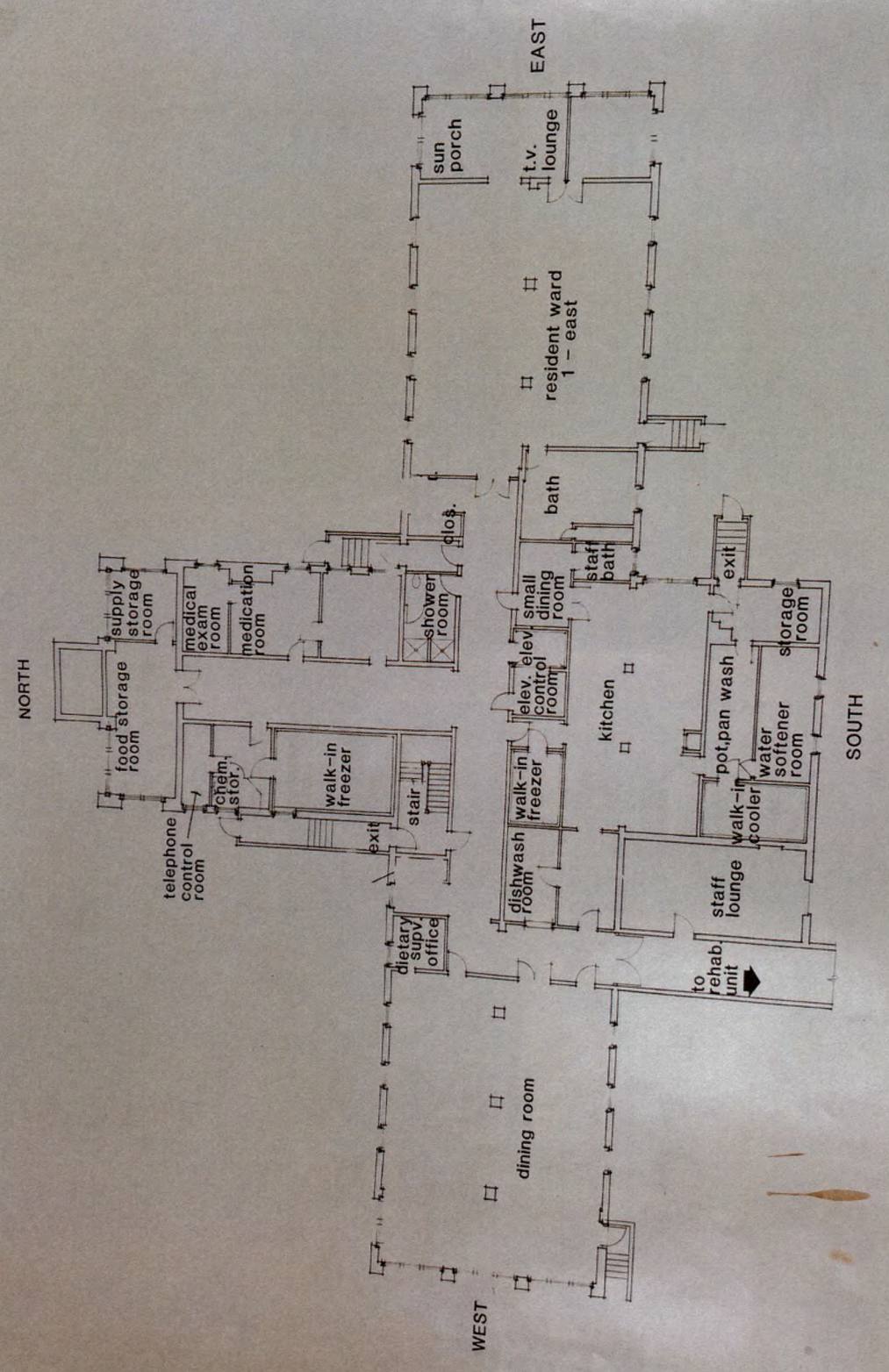
1 GENERAL SITE PHOTOS
NOT TO SCALE



TOTAL NUMBER OF SHEETS		5	
DESIGNED BY	DRAWN BY	CHECKED BY	SURVEY NOTES
	KK	JR	
ACTIVITY I.D.	DATE		5/10/2022
PROJECT		SHEET TITLE	
DEMOLITION OF PRAIRIE HILLS CENTER AT 1600 COUNTY HOME ROAD		DEMOLITION PHOTOS	
MARK	DATE	BY	FILE NO.
			C. 100B

**APPENDIX 6 – Woodbury County Home
Blueprints – 1980**

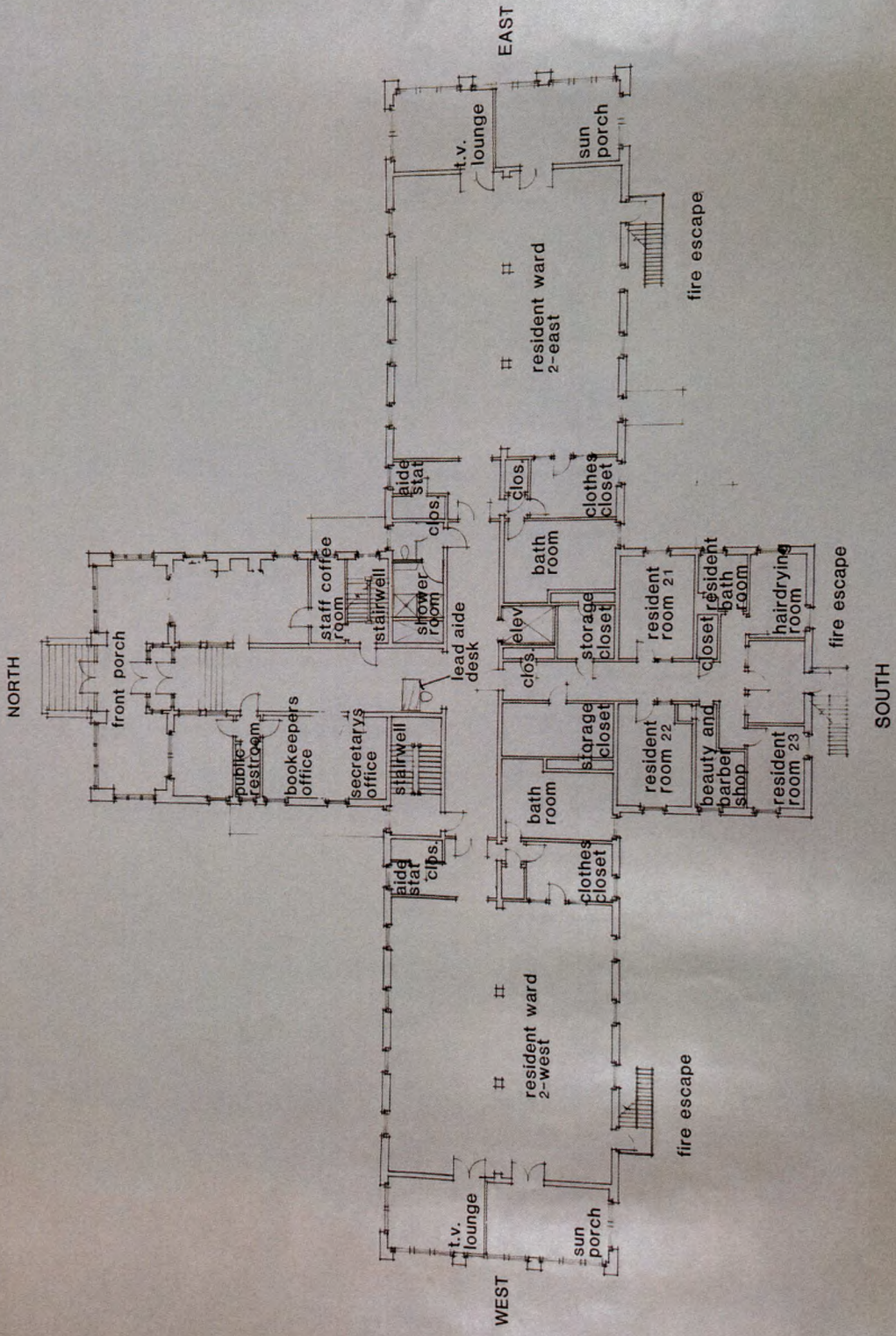
WOODBURY COUNTY HOME



FIRST FLOOR

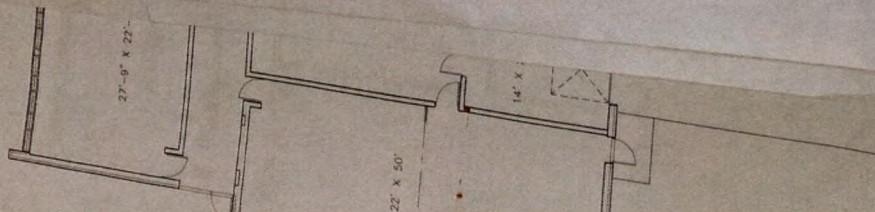
WOODBURY COUNTY HOME

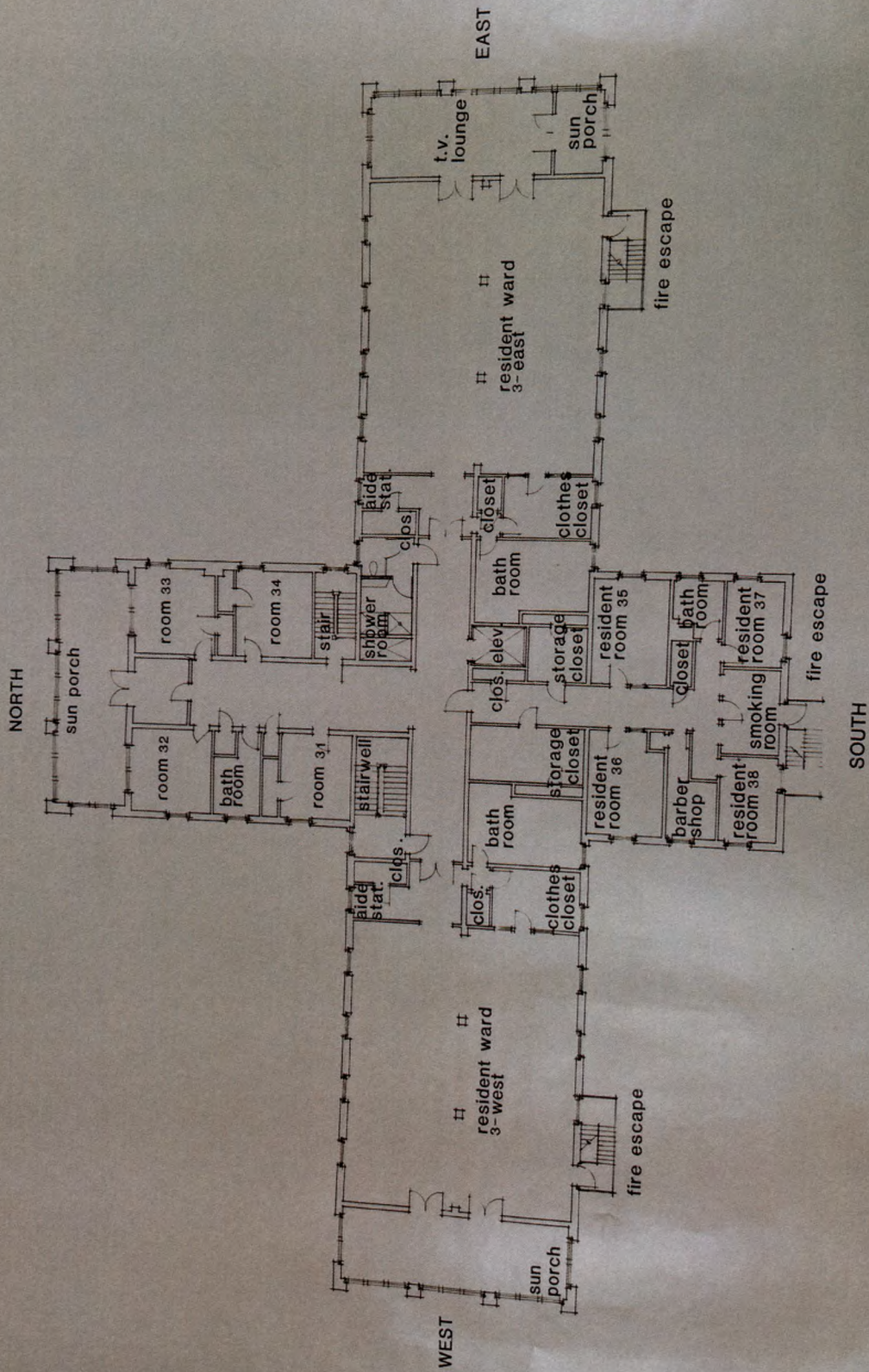
22' x



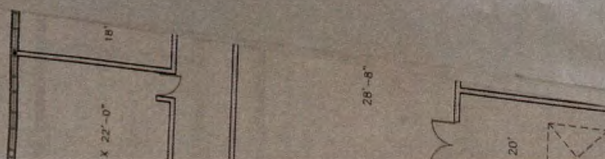
SECOND FLOOR

WOODBURY COUNTY HOME





THIRD FLOOR



PRairie Hills Center
EXISTING FACILITY

922 DOUGLAS STREET

SIoux CITY, IOWA 51101

RURAL WOODBURY COUNTY

PA ARCHITECTS L.L.C.



DATE 00-00-00

REVISION

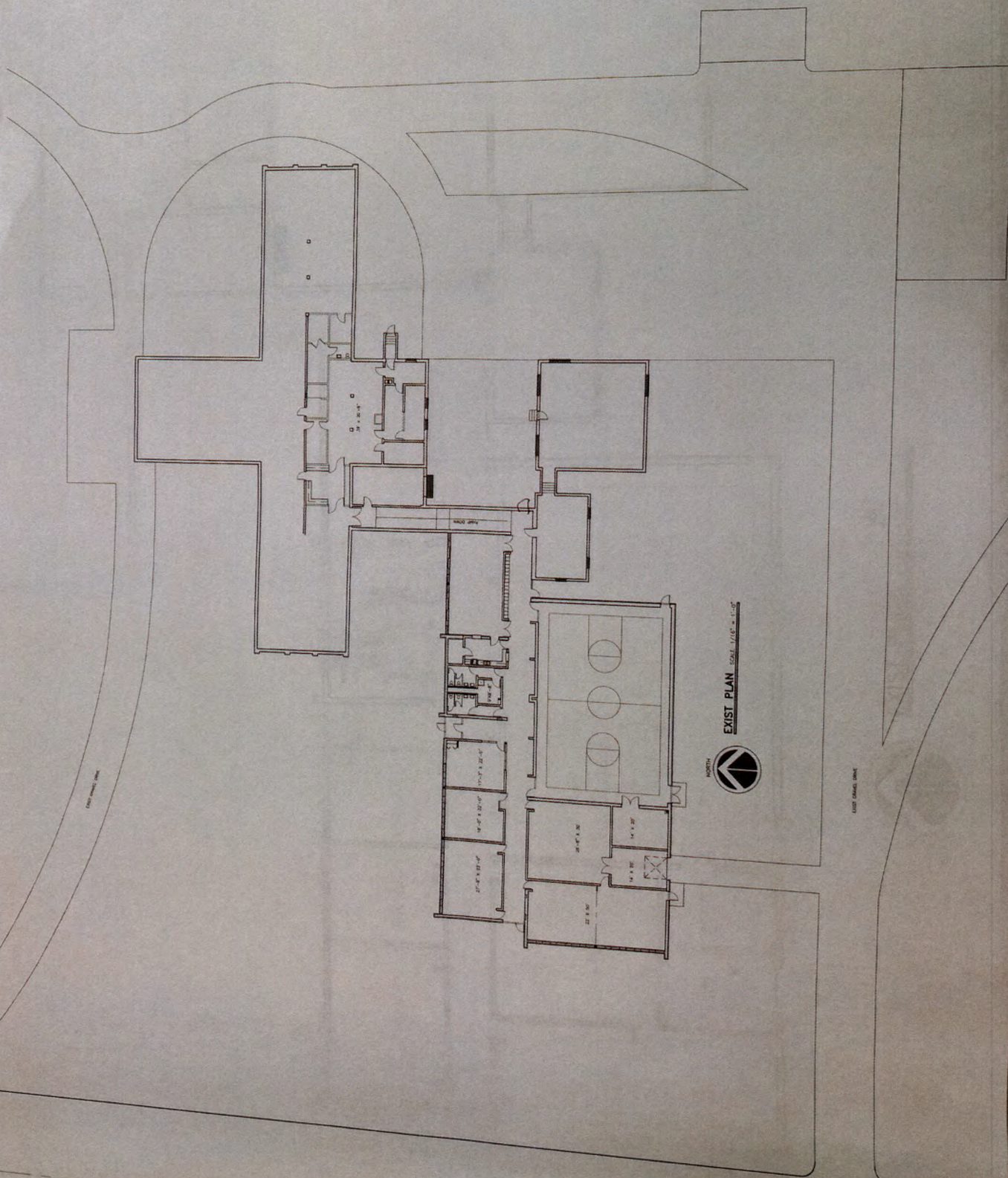
PROJECT 0

A1 of 1

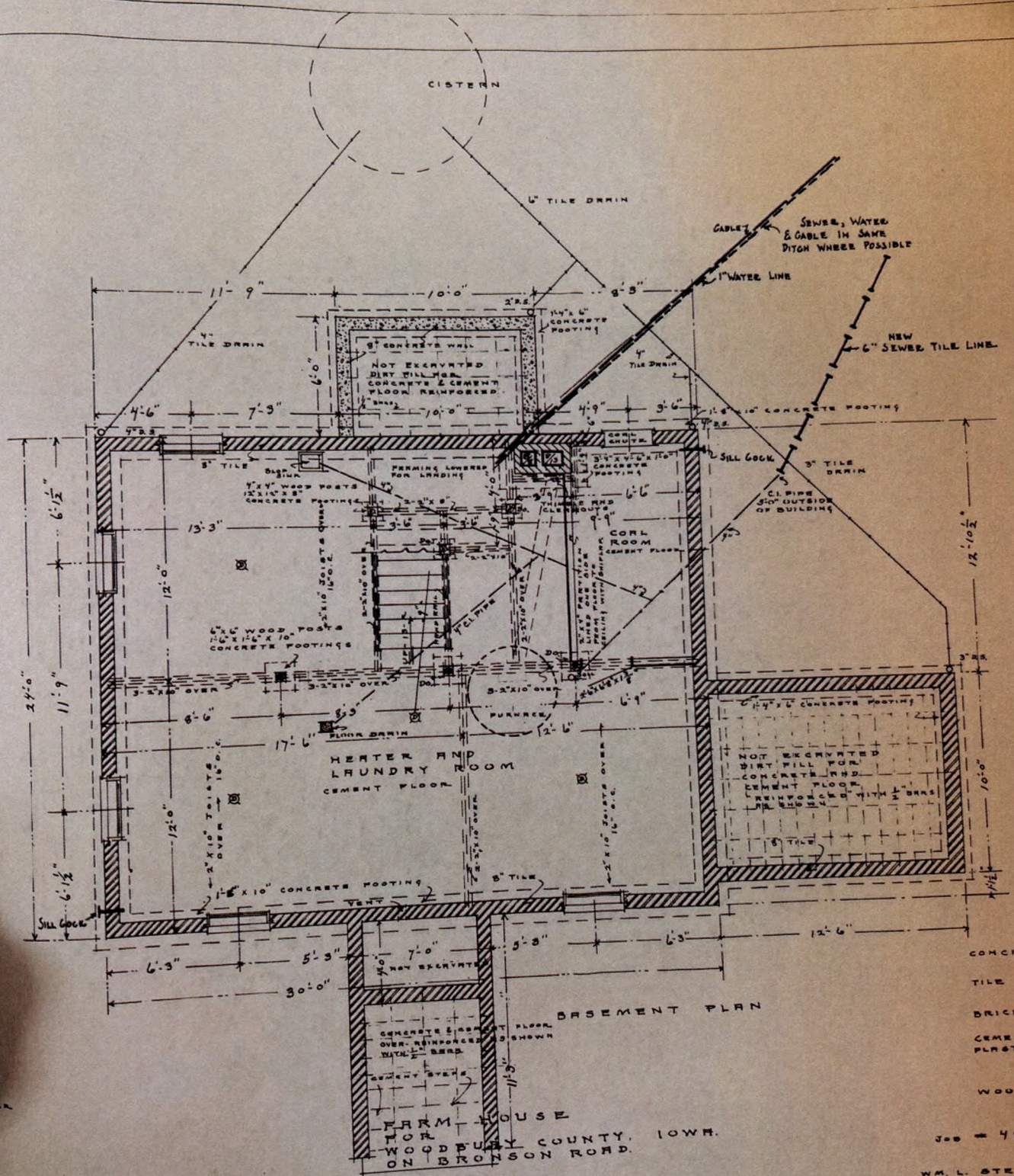
0909 EXISTING

1. PLANNING, CONSTRUCTION, AND
OPERATION OF THIS FACILITY SHALL BE
THE RESPONSIBILITY OF THE CLIENT.
THE ARCHITECT SHALL NOT BE
RESPONSIBLE FOR THE DESIGN OF
THE LAND OR THE STRUCTURE
ITSELF.

PROJECT NO. 1111
DATE: 00-00-00
REVISIONS: 00



BUCHANAN AVE



- INDEX
MATERIALS
- CONCRETE
 - TILE
 - BRICK
 - CEMENT OR PLASTER
 - WOOD

BASEMENT PLAN

FARM HOUSE
FOR
WOODBURY COUNTY, IOWA.
ON BRONSON ROAD.

JOB = 483
WM. L. STEALE
ARCHITECT
SIOUX CITY, IA.

1/4" SCALE
MARCH 10-1917
DRAWN BY W.W.H.
ISSUED MARCH 20-1920.

WOODBURY COUNTY HOME

R. R. 2 SIOUX CITY, IOWA

NEW CENTRAL AIR CONDITIONING AND INTERIOR REMODELING

INDEX OF DRAWINGS

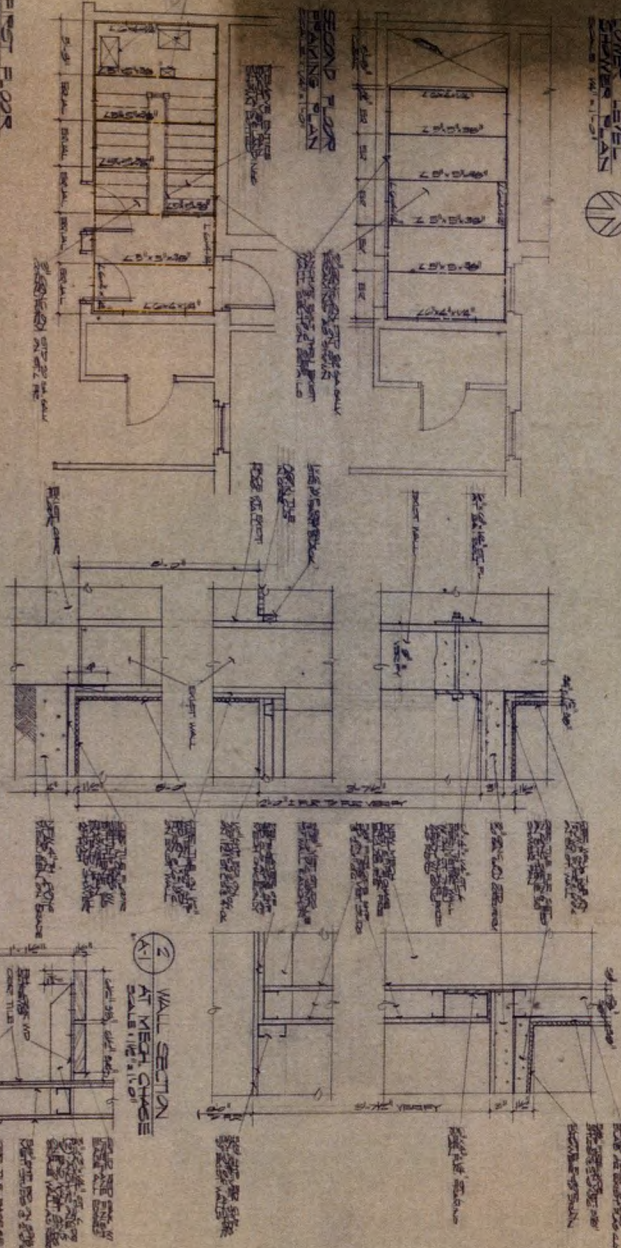
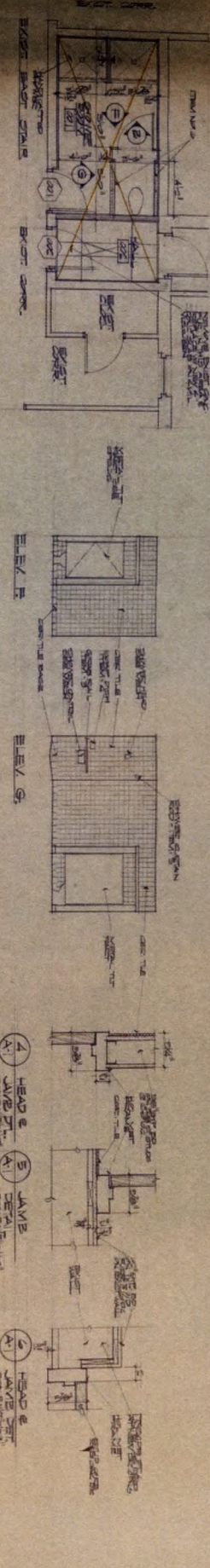
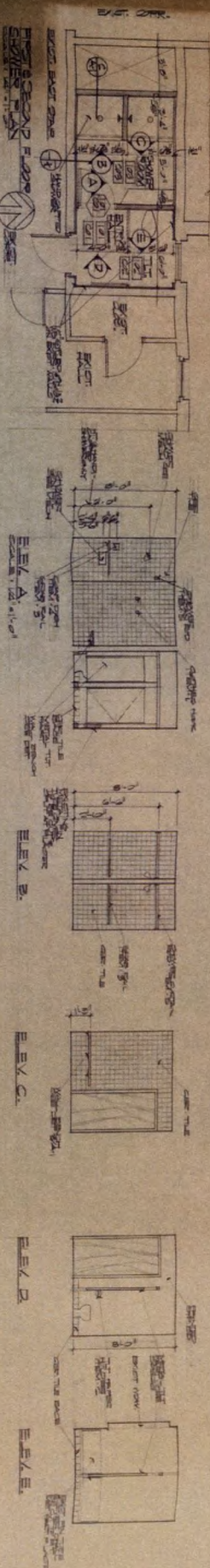
- A-1 SHOWER AND TOILET DETAILS
- M-1 REHAB CENTER FOOTING AND FOUNDATION
BOILER ROOM LOWER LEVEL
- M-2 REHAB CENTER FIRST FLOOR
BOILER ROOM FIRST FLOOR
- M-3 DORMITORY LOWER LEVEL PLAN MECHANICAL
- M-4 DORMITORY FIRST FLOOR PLAN MECHANICAL
- M-5 DORMITORY SECOND FLOOR PLAN MECHANICAL
- M-6 DORMITORY ATTIC PLAN AND DETAILS
- M-7 MECHANICAL DETAILS AND SYMBOL LEGEND
- M-8 MECHANICAL SCHEDULES
- E-1 ELECTRICAL DEMOLITION FLOOR PLAN
- E-2 DORMITORY FLOOR PLANS ELECTRICAL
- E-3 ELECTRICAL SCHEDULES, DETAILS AND NOTES

BOARD OF SUPERVISORS

- MARK McLARYAN, CHAIRMAN
- KENNETH RODEEN
- WAYNE THOMPSON
- JERRY OSULLIVAN
- DON ERICKSON

I HEREBY CERTIFY THAT THIS PLAN, SPECIFIED NON-COMMERCIAL, WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

Raymond A. Brown 1903 6/1/18
REC'D DATE



SECTION 100
SECTION 101
SECTION 102
SECTION 103
SECTION 104
SECTION 105
SECTION 106
SECTION 107
SECTION 108
SECTION 109
SECTION 110
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SECTION 112
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SECTION 198
SECTION 199
SECTION 200

1) TYPICAL NORTH SECTION
2) TYPICAL WALL SECTION

3) BENCH DETAIL

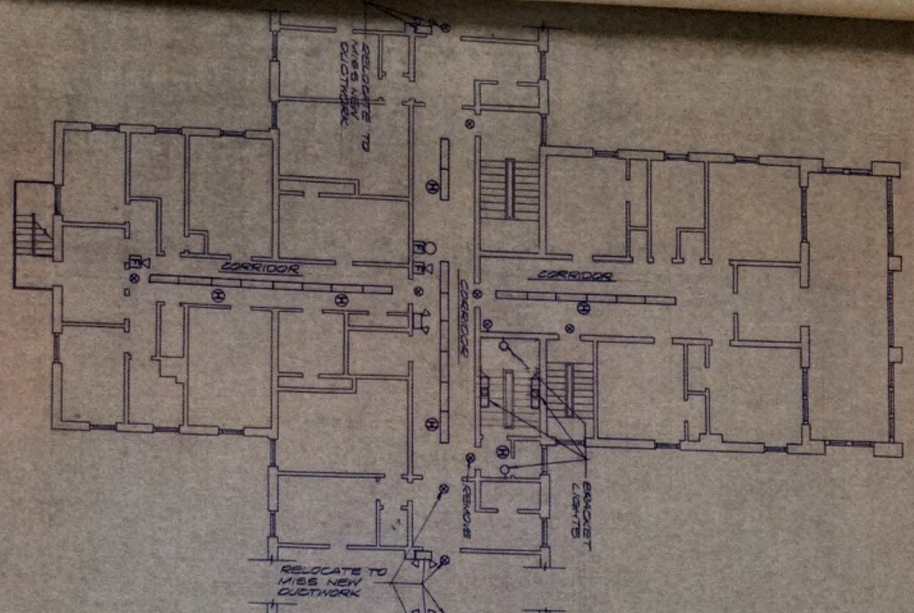
4) WALL SECTION AT MECH CHASE

TOILET ACCESSORY SCHEDULE			
ITEM	QTY	UNIT	REMARKS
1	1	NO.	TOILET
2	1	NO.	TOILET
3	1	NO.	TOILET
4	1	NO.	TOILET
5	1	NO.	TOILET
6	1	NO.	TOILET
7	1	NO.	TOILET

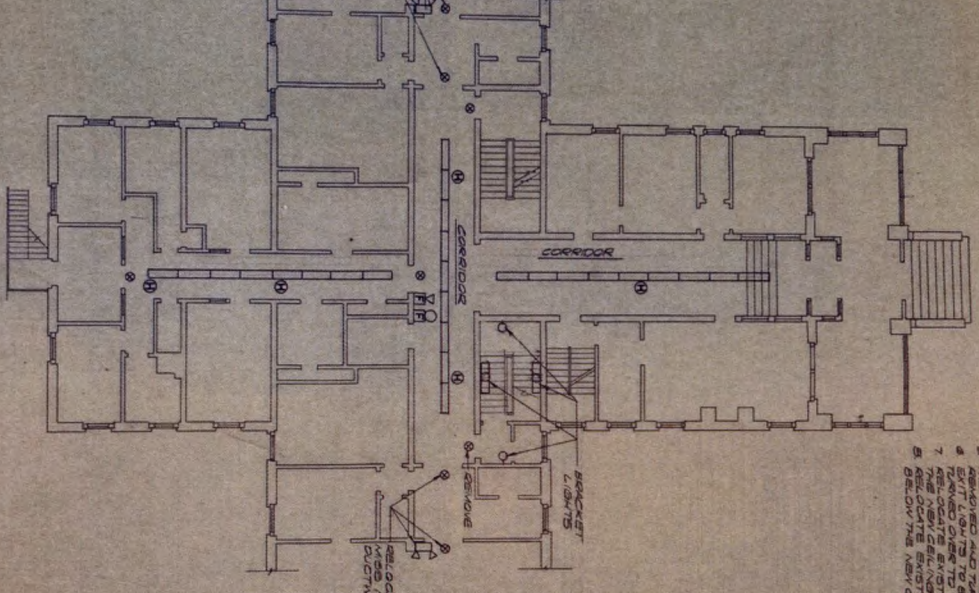
ROOM FINISH SCHEDULE			
ROOM NO.	ROOM NAME	FLOOR	FINISH
101	TOILET	1ST	WHITE GLAZED
102	TOILET	1ST	WHITE GLAZED
103	TOILET	1ST	WHITE GLAZED
104	TOILET	1ST	WHITE GLAZED
105	TOILET	1ST	WHITE GLAZED
106	TOILET	1ST	WHITE GLAZED
107	TOILET	1ST	WHITE GLAZED
108	TOILET	1ST	WHITE GLAZED
109	TOILET	1ST	WHITE GLAZED
110	TOILET	1ST	WHITE GLAZED
111	TOILET	1ST	WHITE GLAZED
112	TOILET	1ST	WHITE GLAZED
113	TOILET	1ST	WHITE GLAZED
114	TOILET	1ST	WHITE GLAZED
115	TOILET	1ST	WHITE GLAZED
116	TOILET	1ST	WHITE GLAZED
117	TOILET	1ST	WHITE GLAZED
118	TOILET	1ST	WHITE GLAZED
119	TOILET	1ST	WHITE GLAZED
120	TOILET	1ST	WHITE GLAZED

DOOR SCHEDULE			
NO.	SIZE	TYPE	REMARKS
1	3'0" x 7'0"	SLIDING	TOILET
2	3'0" x 7'0"	SLIDING	TOILET
3	3'0" x 7'0"	SLIDING	TOILET
4	3'0" x 7'0"	SLIDING	TOILET
5	3'0" x 7'0"	SLIDING	TOILET
6	3'0" x 7'0"	SLIDING	TOILET
7	3'0" x 7'0"	SLIDING	TOILET
8	3'0" x 7'0"	SLIDING	TOILET
9	3'0" x 7'0"	SLIDING	TOILET
10	3'0" x 7'0"	SLIDING	TOILET
11	3'0" x 7'0"	SLIDING	TOILET
12	3'0" x 7'0"	SLIDING	TOILET
13	3'0" x 7'0"	SLIDING	TOILET
14	3'0" x 7'0"	SLIDING	TOILET
15	3'0" x 7'0"	SLIDING	TOILET
16	3'0" x 7'0"	SLIDING	TOILET
17	3'0" x 7'0"	SLIDING	TOILET
18	3'0" x 7'0"	SLIDING	TOILET
19	3'0" x 7'0"	SLIDING	TOILET
20	3'0" x 7'0"	SLIDING	TOILET

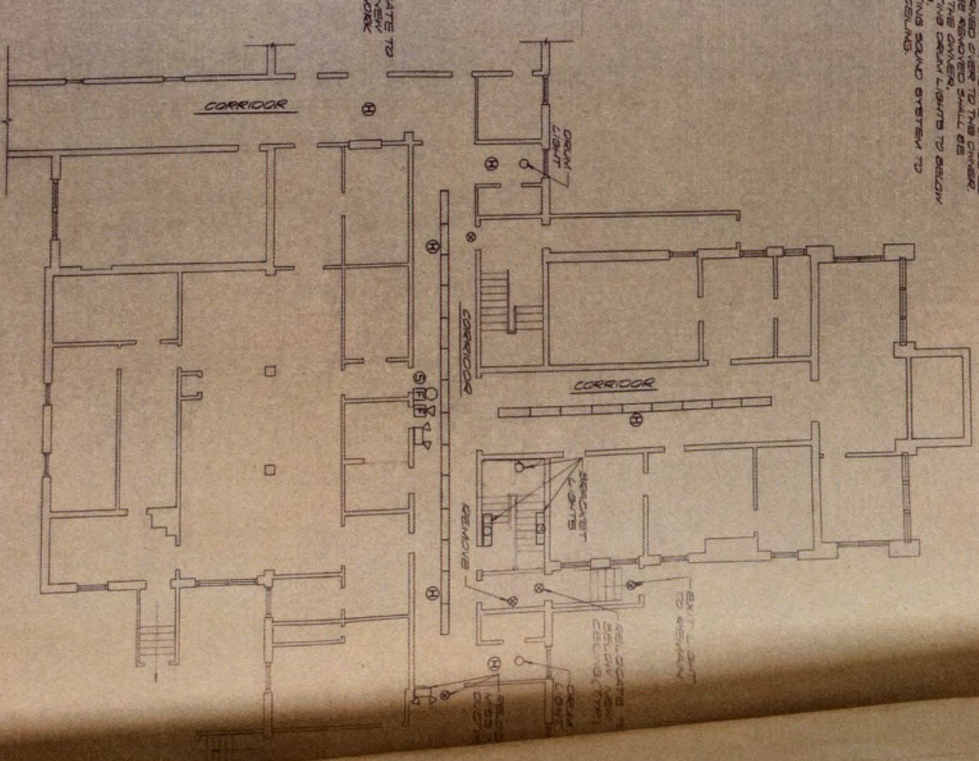
ACUSTIC TILE CEILING NOTES
1. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL TOILETS.
2. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL MECH CHASES.
3. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL STAIRS.
4. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL HALLS.
5. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL ROOMS.
6. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL OFFICES.
7. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL BATHS.
8. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL KITCHENS.
9. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL DINING ROOMS.
10. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL LIVING ROOMS.
11. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL BED ROOMS.
12. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL PORCHES.
13. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL PATIOS.
14. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL TERRACES.
15. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL BALCONIES.
16. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL ROOFS.
17. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL WALLS.
18. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL FLOORS.
19. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL CEILINGS.
20. ACUSTIC TILE CEILING SHALL BE INSTALLED IN ALL PARTS.



EXISTING SECOND LEVEL PLAN
SCALE: 1/8" = 1'-0"
NORTH

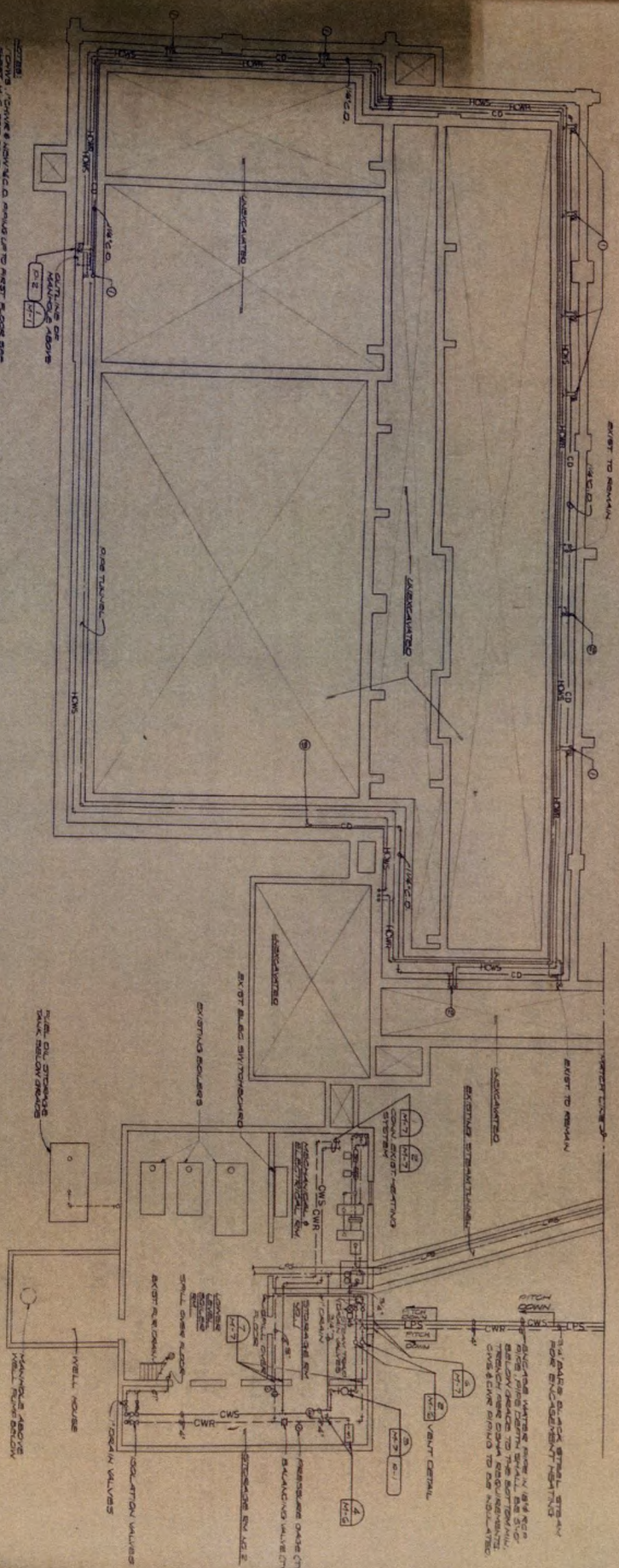


EXISTING FIRST LEVEL PLAN
SCALE: 1/8" = 1'-0"
NORTH



EXISTING LOWER LEVEL PLAN
SCALE: 1/8" = 1'-0"
NORTH

- NOTES:
1. NEW CEILING WILL BE INSTALLED IN THE CORRIDORS
 2. AND EXISTING STRUNG LINES WILL BE CONSIDERED
 3. AND CONVERTED TO DOWNER FEEDS
 4. ALL EXISTING DOWNER FEEDS WILL BE RELOCATED TO NEW CEILING
 5. ALL NEW DOWNER FEEDS WILL BE RELOCATED TO NEW CEILING
 6. ALL NEW DOWNER FEEDS WILL BE RELOCATED TO NEW CEILING
 7. ALL EXISTING DOWNER FEEDS WILL BE RELOCATED TO NEW CEILING
 8. ALL EXISTING DOWNER FEEDS WILL BE RELOCATED TO NEW CEILING
 9. ALL EXISTING DOWNER FEEDS WILL BE RELOCATED TO NEW CEILING
 10. ALL EXISTING DOWNER FEEDS WILL BE RELOCATED TO NEW CEILING



NOTES:

- CONDENSATE FROM VAV BOXES SHALL BE COLLECTED IN TRAP AND SHALL BE PIPED TO MECHANICAL ROOM.
- CONDENSATE FROM EXHAUST SHALL BE COLLECTED IN TRAP AND SHALL BE PIPED TO MECHANICAL ROOM.
- CONDENSATE FROM ROOF TOP UNITS SHALL BE COLLECTED IN TRAP AND SHALL BE PIPED TO MECHANICAL ROOM.
- CONDENSATE FROM ALL OTHER SOURCES SHALL BE PIPED TO MECHANICAL ROOM.

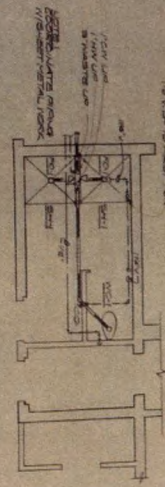
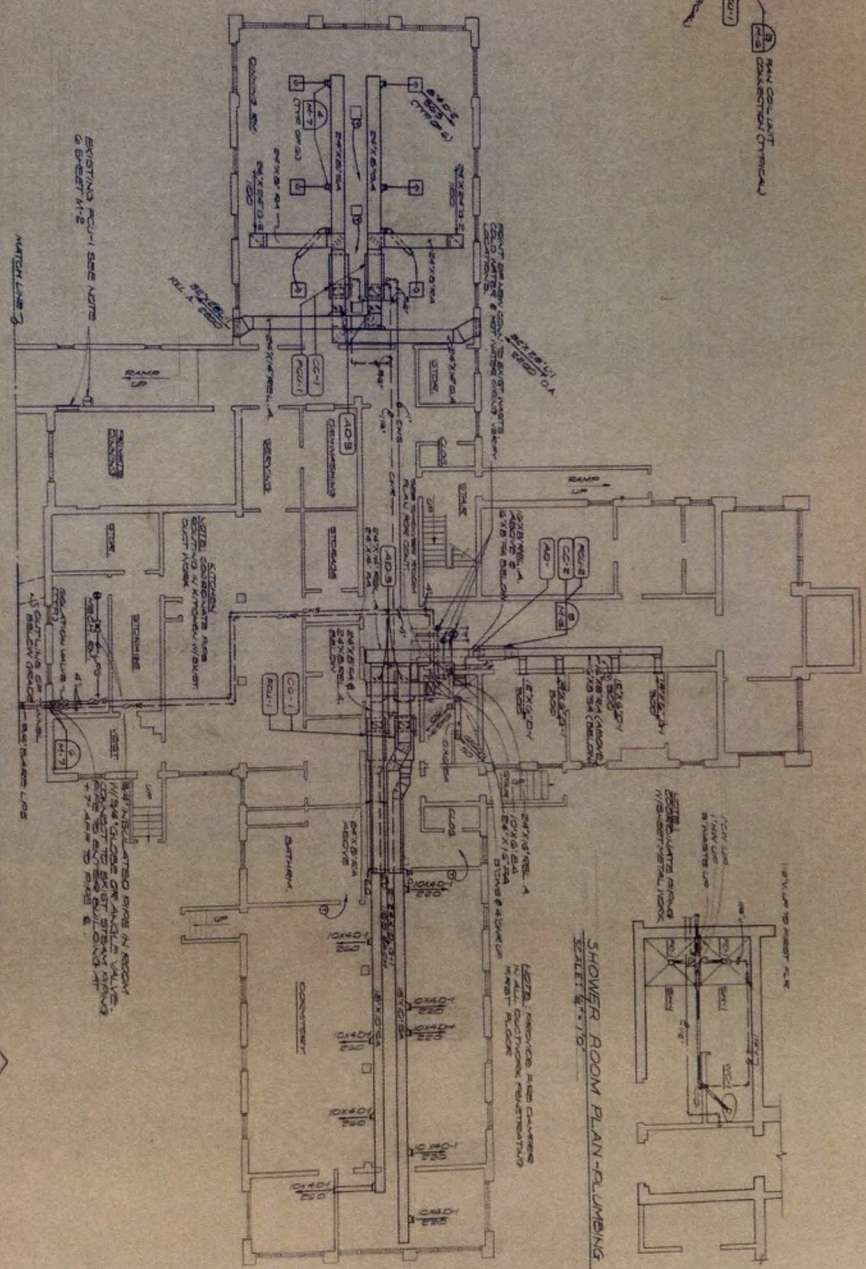
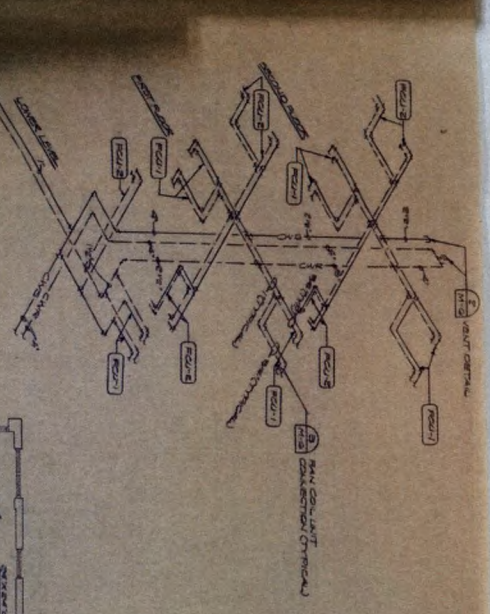
CONDENSATE RAMP DETAIL

SCALE: 1/4" = 1'-0"

FOOTING FOUNDATION AND LOWER LEVEL PLAN-MECHANICAL

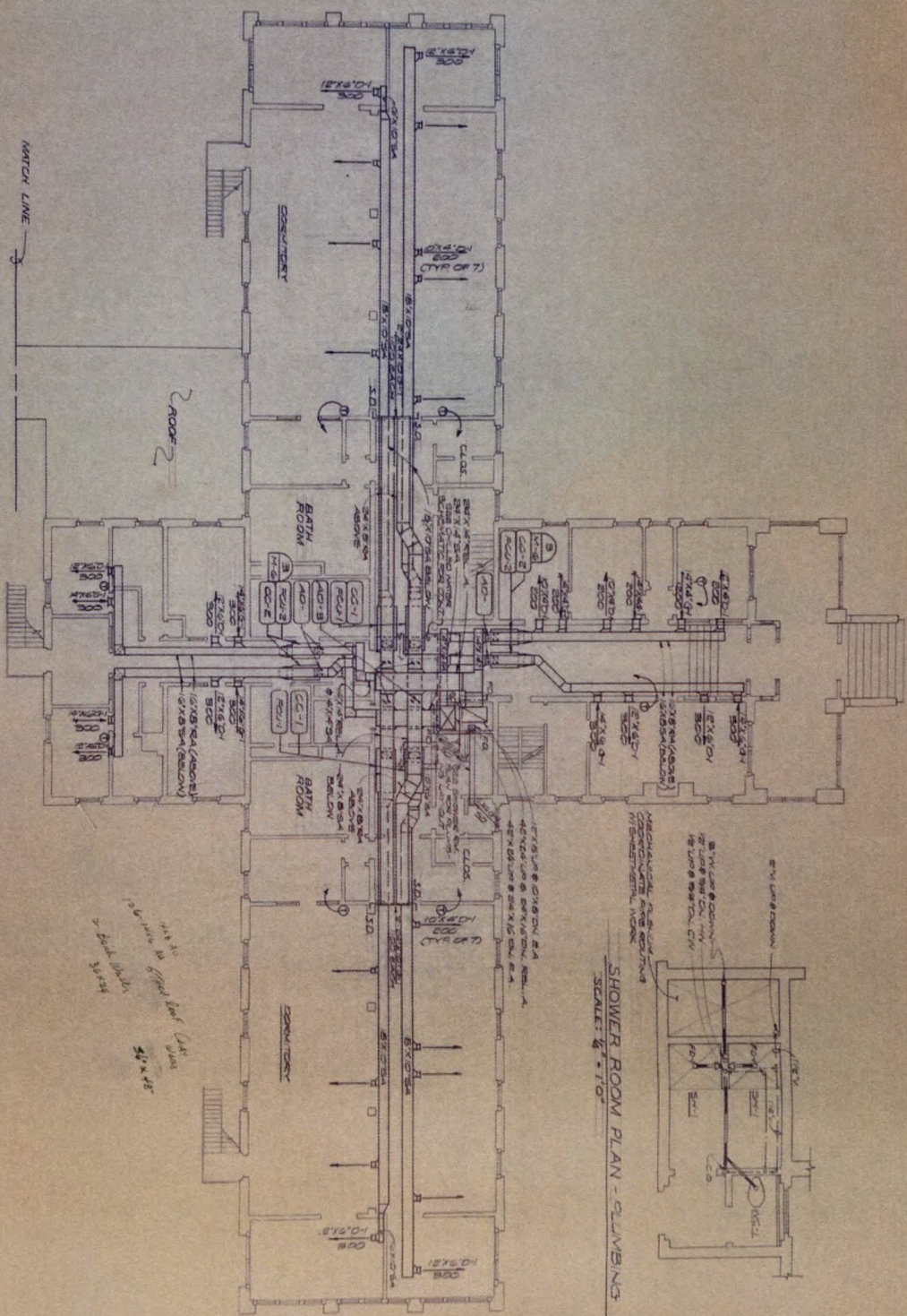
GENERAL NOTES:

- THE EXISTING FOUNDATION AND LOWER LEVEL SHALL BE MAINTAINED AND REINFORCED AS NECESSARY TO SUPPORT THE NEW MECHANICAL EQUIPMENT.
- THE EXISTING MECHANICAL EQUIPMENT SHALL BE MAINTAINED AND REINFORCED AS NECESSARY TO SUPPORT THE NEW MECHANICAL EQUIPMENT.
- ALL EXISTING EXHAUST SYSTEMS SHALL REMAIN.
- ALL EXISTING CONDENSATE COLLECTION SHALL BE MAINTAINED AND REINFORCED AS NECESSARY TO SUPPORT THE NEW MECHANICAL EQUIPMENT.
- PROVIDE ALL CUTTING & PATCHING REQUIRED FOR THE MECHANICAL WORK.

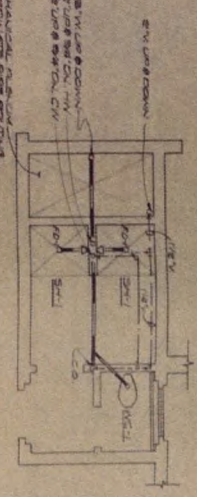


- LETTERS
1. ALL EXISTING OPERATIONS SHALL BE MAINTAINED AND REPAIRS TO EXISTING SYSTEMS SHALL BE MADE IN THE MECHANICAL ROOM.
 2. PROVIDE SWING DAMPERS IN ALL SUPPLY & RETURN DUCTWORK SERVING THE OPERATIONS AND DAMPERS SHALL BE KEPT DOWN. ALL WIRING IN DUCTS SHALL BE KEPT DOWN.
 3. PROVIDE FIRE ALARM SHUT-DOWN OF ALL NEW OPERATIONS IN DUCTS.

FIRST FLOOR PLAN - MECHANICAL
 SCALE: 1/8" = 1'-0"



SHOWER ROOM PLAN - GLIMBERG
 SCALE: 1/4" = 1'-0"



Handwritten notes in the lower right quadrant of the main plan:
 1. 10' x 10' x 10' (approx)
 2. 10' x 10' x 10' (approx)
 3. 10' x 10' x 10' (approx)
 4. 10' x 10' x 10' (approx)

M-4

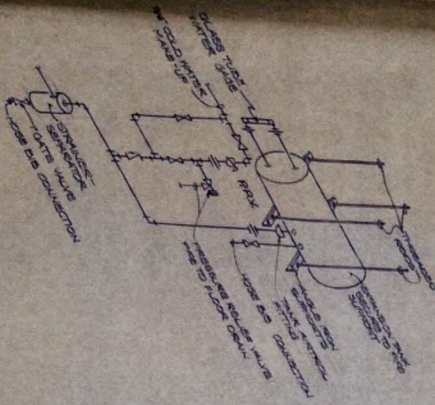
Jma JENKINS, MACK & ASSOCIATES
 CONSULTING ENGINEERING
 MECHANICAL, ELECTRICAL, PLUMBING

BEARS & BLOCH
 ARCHITECTS

WOODBURY COUNTY HOME
 NEW AIR CONDITIONING
 SYSTEM
 DORMITORY FIRST
 FLOOR PLAN - MECH.
 1717 POLICE, 500 X CITY, IOWA

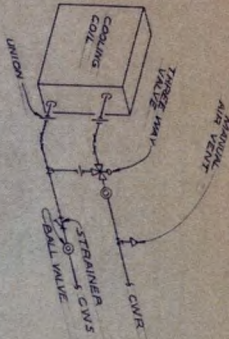
REVISIONS
 NO. 1
 DATE
 DESCRIPTION

CHILLED WATER MAKE-UP
NO SCALE



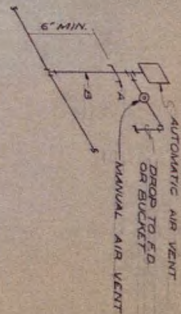
1/4" = 1'

CHILLED WATER COIL PIPING DETAIL
NO SCALE



1/4" = 1'

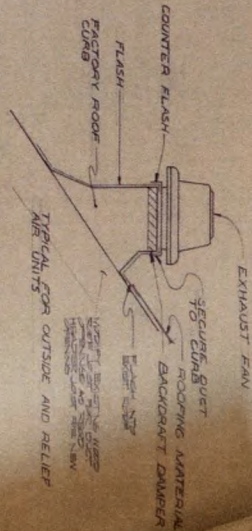
NOTE: LOCATE AT HIGH POINTS OF CHILLED
A. TAP CAP END AIR VENT
B. FOR MAINS UP TO AND INCLUDING
2" RUN. PIPE SIZE SAME AS MAIN SIZE.
RUN 2" FOR MAINS 2" AND ABOVE.



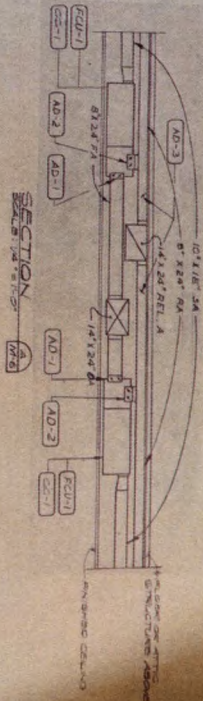
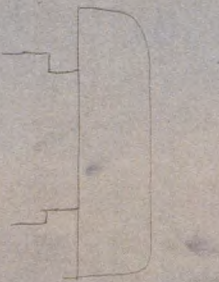
AIR VENT DETAIL
NO SCALE

1/4" = 1'

EXHAUST FAN MOUNTING DETAIL
NO SCALE

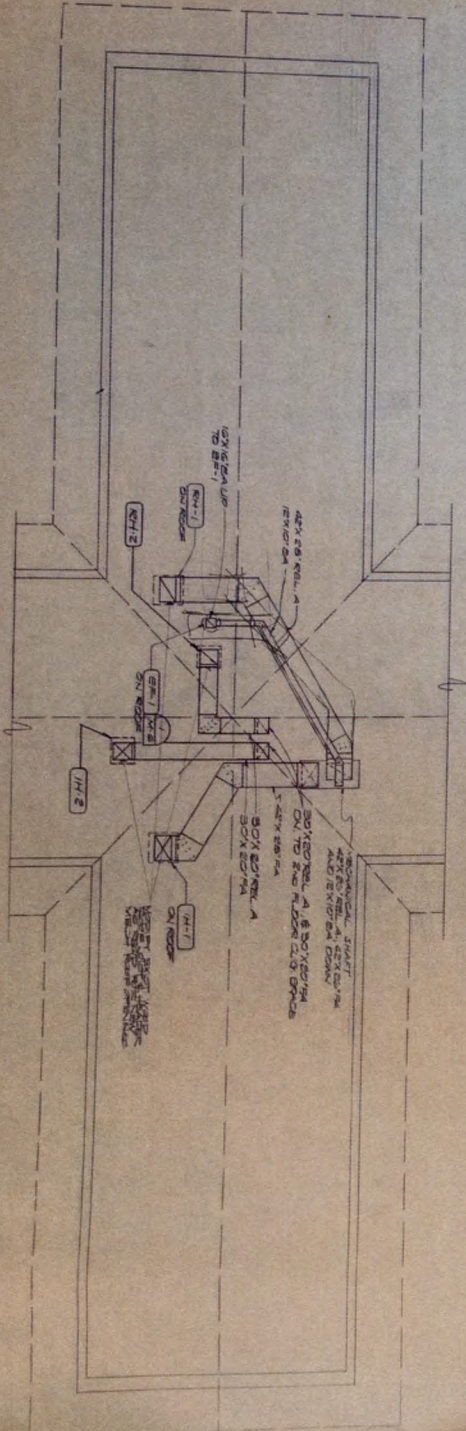


1/4" = 1'



SECTION

1/4" = 1'

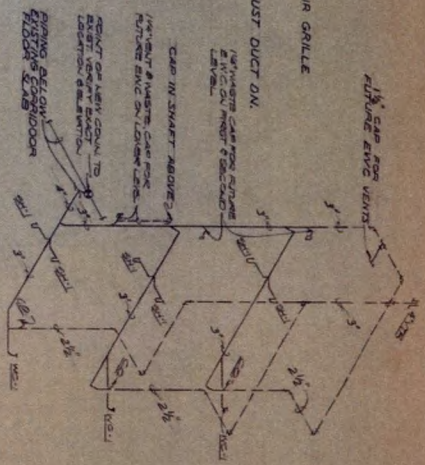


ATTIC PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

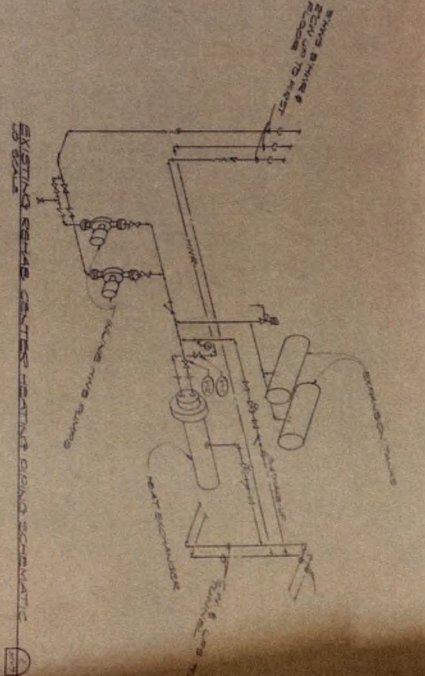
NORTH

MECHANICAL SYMBOL LEGEND

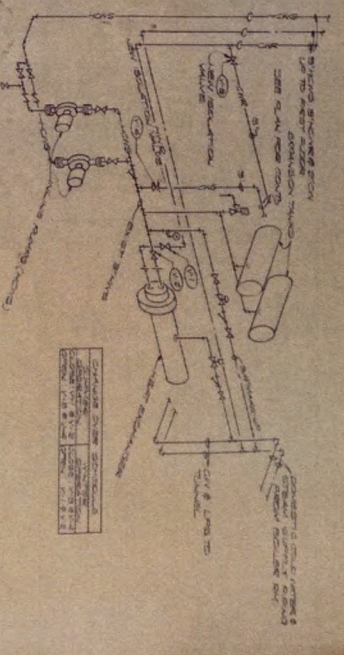
- MECH. SYM. TYPE
- LINEAR SUPPLY AIR DIFFUSER CEILING MOUNTED
- CEILING MOUNTED SQUARE RETURN OR EXHAUST AIR GRILLE
- SUPPLY DUCT UP, SUPPLY DUCT DOWN
- RETURN OR EXHAUST DUCT UP, RETURN OR EXHAUST DUCT DN.
- FIRE DAMPER
- EQUIPMENT MARK NUMBER
- THERMOSTAT, THERMOSTAT WITHOUT SETBACK
- VENT THRU ROOF
- SUPPLY AIR
- RETURN AIR
- OUTSIDE AIR
- EXHAUST AIR
- RELIEF AIR
- CLEAN OUT
- BALL VALVE
- COLD WATER PIPING
- HOT WATER PIPING
- VENT PIPING
- SOIL OR WASTE PIPING BELOW GRADE
- HOT WATER SUPPLY
- HOT WATER RETURN
- CHILLED WATER SUPPLY
- CHILLED WATER RETURN
- CHILLED HOT WATER SUPPLY (EXCEPTING HWB PIPING)
- CHILLED HOT WATER RETURN (EXCEPTING HWB PIPING)
- LOW PRESSURE STEAM SUPPLY
- LOW PRESSURE STEAM RETURN
- CONDENSATE DRAIN PIPING
- SMOKE DAMPER



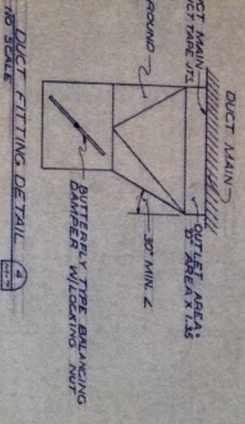
WASTE & VENT SCHEMATIC
NO SCALE



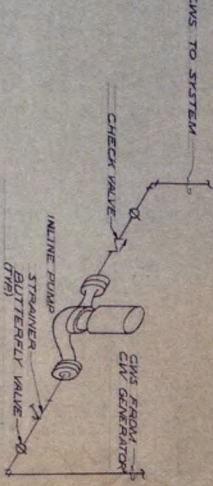
SKINNY BUILDING CENTER HEATING COOLING POND SCHEMATIC



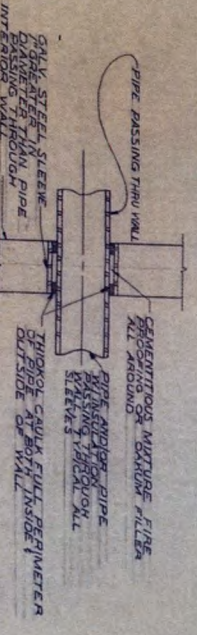
REVERSED ROLLS CENTER HEATING COOLING POND SCHEMATIC



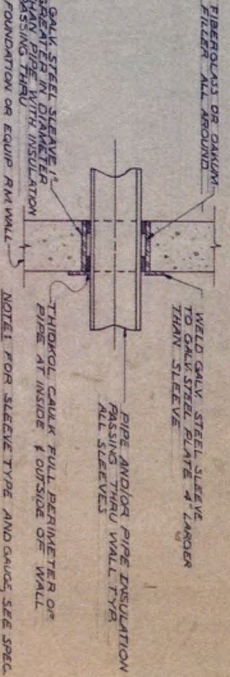
DUCT FITTING DETAIL
NO SCALE



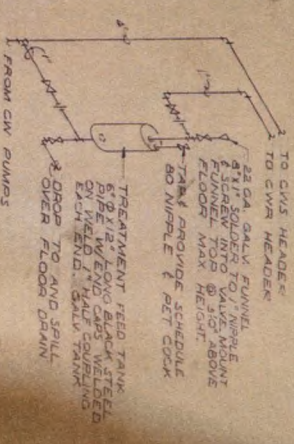
INLINE PUMP DETAIL
NO SCALE



DETAIL OF SLEEVE FOR PIPING THRU INTERIOR WALL
NO SCALE



DETAIL OF SLEEVE FOR PIPING THRU EXTERIOR FOUNDATION WALL
NO SCALE



WATER TREATMENT FEEDER DETAIL
NO SCALE

DRAWINGS