

BUILDING 28

Residence

1898 Fort Road

Sheridan, Wyoming

Building 28 was constructed in 1902 and serves as a residential unit for the Department of Veterans Affairs Sheridan Medical Facility. The structure has two levels with a basement and attic and is of brick, concrete and mortar construction. The building is approximately 5,112 square feet.

Asbestos Findings and Management Recommendations

Northern Industrial Hygiene, Inc. conducted an asbestos re-inspection of Building 28 on July 7, 2015. The following materials were confirmed or assumed to contain asbestos greater than 1%. In addition recommendations for management action(s) are also provided based on visual and tactile assessments of each confirmed or assumed building material.

<u>Material Number</u>	<u>Material Description</u>	<u>Management Recommendations</u>
F01.B	Linoleum (HGS 2008)	O&M
F03.A	Floor tile and mastic (HGS 2008)	O&M
M11.A	Caulking, window/door sealant, black	O&M

Note: O&M = Operations and Maintenance Program

The following materials were determined to contain less than 1% asbestos and therefore not considered asbestos-containing materials.

M03.A	Drywall	O&M
M06.A	Plaster	O&M

TABLE A Room-by-Room Summary of Suspect and Confirmation of ACBM's Residence 28

Facility Name: Residence 28
Address: 1898 Fort Road
City, State, ZIP Code: Sheridan, WY

Building Number: Bldg 28 Date of Inspection: 07/07/2015 Site Inspected By: Dan Schwert

Floor No.	Room No.	Room Description	Material Type	Homogeneous Material Description	Material Number and Comments	ACBM QTY	UNIT	ACBM Friable	Sample No.	AHERA Category*	NESHAP Category
B	001	Laundry	M	Plaster	M06.A Plaster	0		No	M6.A.1	0	Category 2
B	001	Laundry	M	Caulking	M11.B Wall penetration, caulking, brown	0		No	M11.B.1,2	0	Category 2
B	002	Storage	M	Caulking	M11.C Caulking, wall penetration, white	0		No	M11.C.1	0	Category 2
B	002	Storage	M	Wallboard/Taping Material	M03.A Drywall	0		No	M3.A.1,2,3	0	Category 2
B	003	Storage	M	Caulking	M11.C Caulking, wall penetration, white	0		No	M11.C.2,3	0	Category 2
1	103	Dining Room	F	Linoleum	F01.A Floor sheeting, linoleum	0		No	F1.A.1	0	Category 1
1	103	Dining Room	F	Linoleum	F01.A Floor sheeting, linoleum	0		No	F1.A.2	0	Category 1
1	103	Dining Room	M	Plaster	M06.A Plaster	0		No	M6A.3	0	Category 2
1	103	Dining Room	M	Baseboard/Mastic	M12.1A 4" Vinyl cove base, tan	0		No	M12.1A,B	0	Category 2
1	103	Dining Room	M	Baseboard/Mastic	M14.A Baseboard, 6"	0		No	M14.A.1,2	0	Category 2
1	103	Dining Room	F	Linoleum	F01.B Linoleum (HGS 2008)	240	SF	Yes	Unknown	N/A	Category 1

*An AHERA Category of more than zero (0) means that the material is regulated friable asbestos. In the AHERA Column 'N/A' means that the material is non-friable and is not ranked per AHERA.

**TABLE A: Room-by-Room Summary of Suspect and Confirmed ACMB's
Residence**

Floor No.	Room No.	Room Description	Homogeneous Material		Material Number and Comments	ACBM QTY	UNIT	ACBM Friable	Sample No.	AHERA Category*	NESHAP Category
			Material Type	Material Description							
1	103	Dining Room	M	Undercoating/Stainless Steel Sinks etc.	M16.A Sink undercoating	0		No	M16.A.1	0	Category 2
1	104	Dining Room	M	Baseboard/Mastic	M12.1 4" Vinyl cove base , tan	0		No	M12.1.C	0	Category 2
1	104	Dining Room	M	Linoleum	F01.B Linoleum (HGS 2008)	240	SF	Yes		N/A	Category 1
1	104A	Porch	F	12" x 12" Floor Tile	F03.A Floor tile and mastic (HGS 2008)	48	SF	Yes	Unknown	N/A	Category 1
Ext.	401	Exterior	M	Caulking	M11.A Caulking, window/door sealant, black	30	EA	Yes	M11.A.1,2,3	N/A	Category 2

*An AHERA Category of more than zero (0) means that the material is regulated friable asbestos. In the AHERA Column 'N/A' means that the material is non-friable and is not ranked per AHERA.

TABLE B

Implementation Table of Abatement Prioritization by Material Condition

Residence 28

BUILDING NO. Bldg 28

Removal Priority: 7

Floor No.	Room No.	Material Description	Material Number and Additional Comments	Qty	Unit	Estimated Response Action Cost	Schedule of Response Action	
							Start Date	Finish Date
1	104	Linoleum	F01.B Linoleum (HGS 2008)	240	SF	\$1,440.00		
1	103	Linoleum	F01.B Linoleum (HGS 2008)	240	SF	\$1,440.00		
1	104A	12" x 12" Floor Tile	F03.A Floor tile and mastic (HGS 2008)	48	SF	\$216.00		
Ext.	401	Caulking	M11.A Caulking, window/door sealant, black	30	EA	\$6,000.00		

Total Cost For Removal Priority 7:	\$9,096.00
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LIMITATIONS: All costs are estimates only and should be confirmed by a certified asbestos abatement contractor. The costs do not include any costs for reinstallation of any surfacing, insulation, or miscellaneous materials or project design, project management, and construction inspection fees. The budgetary estimate presented assumes there will be no relocation costs. The estimate assumes that all identified ACBM's are removed concurrently.

TABLE 1
Summary of Confirmed Asbestos-Containing Materials and
Recommended Response Actions

Material Description	Material Number and Additional Comments	Lab Results *	Recommended Response Actions ‡
Linoleum	F01.B Linoleum (HGS 2008)	Unknown	O&M
12" x 12" Floor Tile	F03.A Floor tile and mastic (HGS 2008)	Unknown	O&M
Caulking	M11.A Caulking, window/door sealant, black	10% Chrysotile, Samples 2, 3 Not Analyzed	O&M

* Materials assumed to contain asbestos were not sampled to protect structural integrity.

‡ Removal: Remove noted damaged ACBM Encapsulate: Enclose ACBM by constructing an air tight barrier
Repair: Repair noted damaged ACBM O&M: Encap ACBM with a penetrating or bridging encapsulant
Enclosure: Include material in a formal operations and maintenance program and maintain ACBM in a nonfriable condition

TABLE 2
Summary of Materials Confirmed Not to Contain Asbestos

Material Description	Material Number and Additional Comments	Lab Results*
Linoleum	F01.A Floor sheeting, linoleum	ND
Plaster	M06.A Plaster	ND
Caulking	M11.C Caulking, wall penetration, white	ND
Baseboard/Mastic	M12.1 4" Vinyl cove base , tan	ND
Undercoating/Stainless Steel Sinks etc.	M16.A Sink undercoating	ND

*ND - Asbestos Not Detected. For actual results, refer to Table 3.

TABLE 3
Bulk Sample Analysis Results and Assumed Materials

Sample No.	Material Description	Material Number and Additional Comments	Sample Location (Room No.)	Lab Results*
F1.A.1	Linoleum	F01.A Floor sheeting, linoleum	103	ND
F1.A.2	Linoleum	F01.A Floor sheeting, linoleum	103	ND
Unknown	Linoleum	F01.B Linoleum (HGS 2008)	103	Unknown
Unknown	12" x 12" Floor Tile	F03.A Floor tile and mastic (HGS 2008)	104A	Unknown
M3.A.1,2,3	Wallboard/Taping Material	M03.A Drywall	002	Trace Actinolite/Tremolite
M6.A.1	Plaster	M06.A Plaster	001	Trace Actinolite/Tremolite
M6A.3	Plaster	M06.A Plaster	103	ND
M11.A.1,2,3	Caulking	M11.A Caulking, window/door sealant, black	401	10% Chrysotile, Samples 2, 3 Not Analyzed
M11.B.1,2	Caulking	M11.B Wall penetration, caulking, brown	001	ND, ND
M11.C.1	Caulking	M11.C Caulking, wall penetration, white	002	ND
M11.C.2,3	Caulking	M11.C Caulking, wall penetration, white	003	ND, ND
M12.1.C	Baseboard/Mastic	M12.1 4" Vinyl cove base , tan	104	ND
M12.1A,B	Baseboard/Mastic	M12.1A 4" Vinyl cove base , tan	103	ND, ND
M14.A.1,2	Baseboard/Mastic	M14.A Baseboard, 6"	103	ND, ND
M16.A.1	Undercoating/Stainless Steel Sinks etc.	M16.A Sink undercoating	103	ND

*ND - Asbestos Not Detected

Reference Appendix C for Laboratory Report

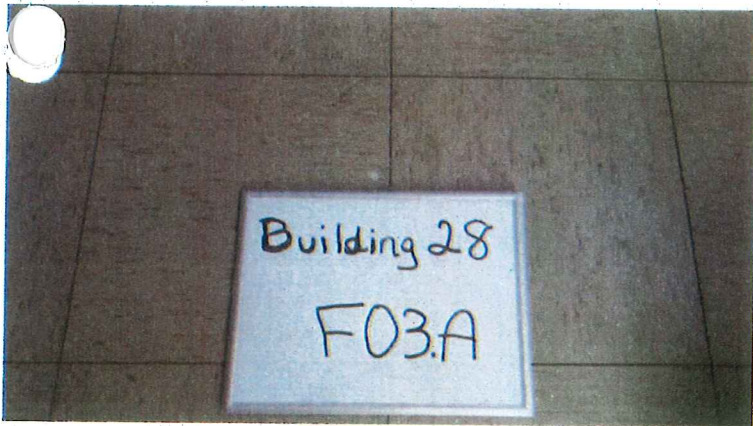
Photograph Legend
Sheridan VA Building 28
Sheridan, Wyoming



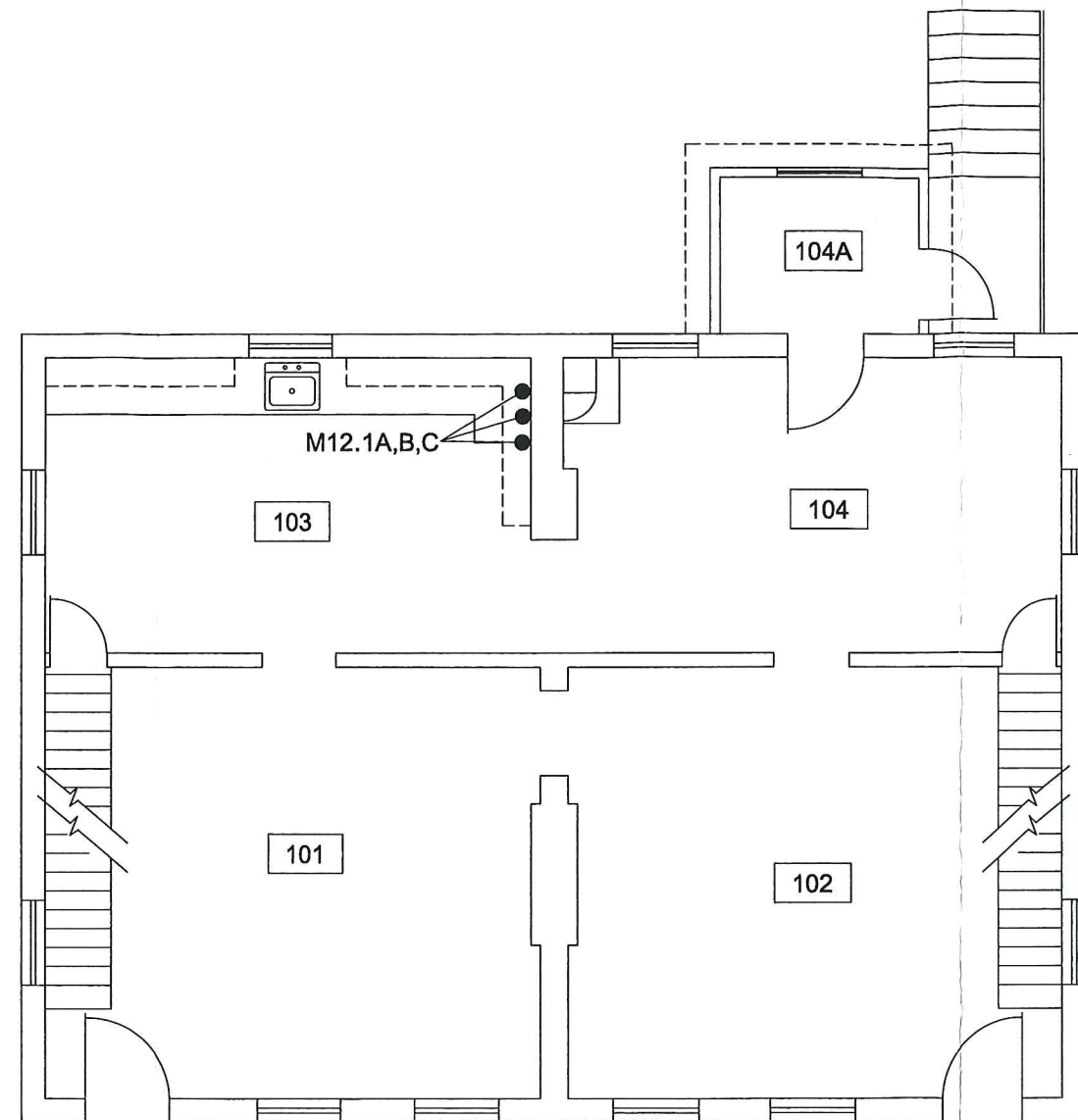
Photograph 1
F01.B Linoleum (HGS 2008)



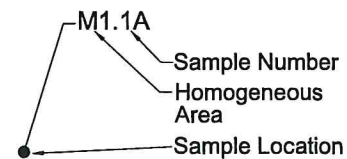
Photograph 2
M11.A Caulking, window/door sealant, black



Photograph 3
F03.A 12"x12" Floor tile and Mastic (HGS 2008)



GRAPHIC LEGEND



FIRST FLOOR SAMPLE LOCATION PLAN

SCALE: 1/8" = 1'-0"



CONSULTANTS:



201 South 30th Street
Billings, Montana
Phone: 406-245-7766
Fax: 406-254-1428
www.northernih.com

ARCHITECT/ENGINEERS:

VCI Project Management
Construction Management
Engineering

Drawing Title
**BUILDING 28 FIRST FLOOR
SAMPLE LOCATION PLAN**

Approved: Project Director

Project Title
**DEPARTMENT OF VETERAN
AFFAIRS**

Location
SHERIDAN, WY

Date
1/01/2015

Checked
KO

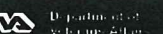
Drawn
PB

CAD FILE
2898-Bldg28

Project Number
999-2898
Building Number
28

Drawing Number
BD28-1
Dwg. 1 of 5

Office of
Construction
and Facilities
Management



Revisions:

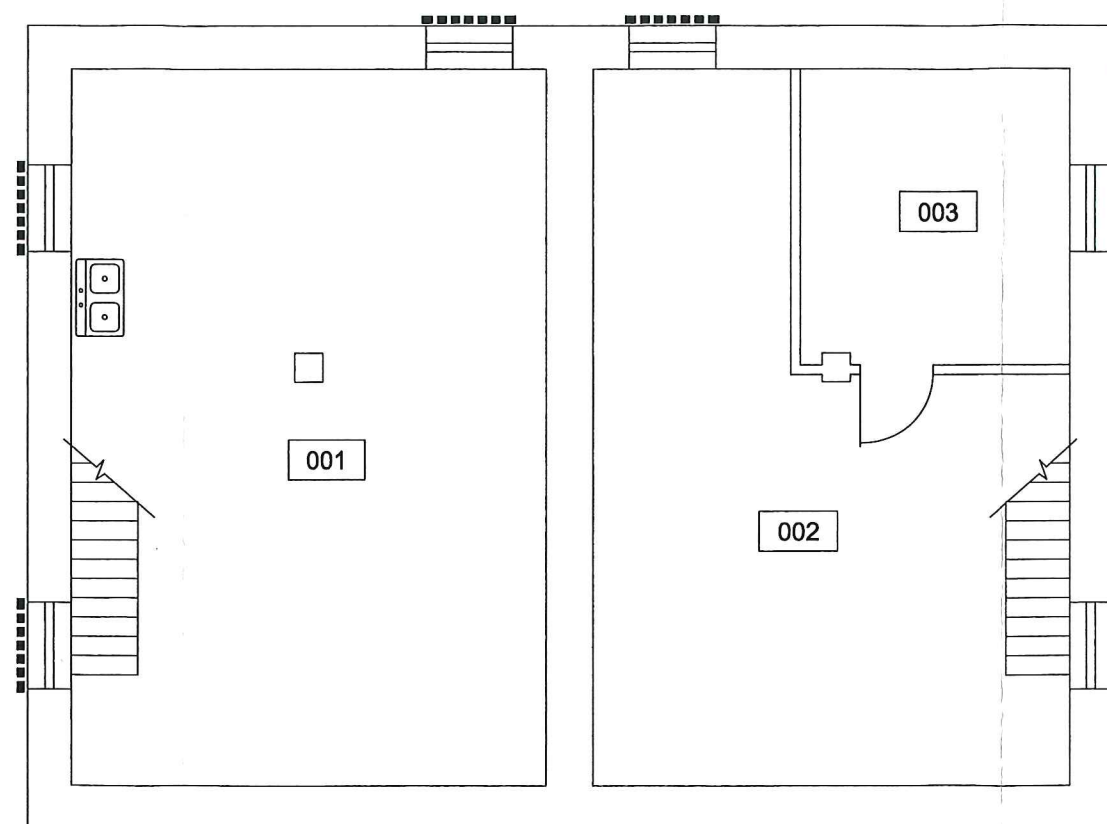
Date

SHEET NOTES

1. DRYWALL AND PLASTER CONTAIN TRACE AMOUNTS OF ACTINOLITE/ TREMOLITE

GRAPHIC LEGEND



■■■■■■■ ACM CONTAINING EXTERIOR WINDOW AND DOOR CAULKING



BASEMENT FLOOR ACM LOCATION PLAN

SCALE: 1/8" = 1'-0"



<div>Revisions</div> <div>Date</div>	<div>CONSULTANTS:</div> <div>  <div> 201 South 30th Street Billings, Montana Phone: 406-245-7766 Fax: 406-254-1428 www.northernih.com </div> </div>	<div>ARCHITECT/ENGINEERS:</div> <div>  <div> Project Management Construction Management Engineering </div> </div>	<div>Drawing Title</div> <div>BUILDING 28 BASEMENT ACM LOCATION PLAN</div> <div>Approved Project Director</div>	<div>Project Title</div> <div>DEPARTMENT OF VETERAN AFFAIRS</div> <div>Location</div> <div>SHERIDAN, WY</div> <div>Date</div> <div>11/01/2015</div> <div>Checked</div> <div>KO</div> <div>Drawn</div> <div>PB</div> <div>CAD FILE</div> <div>2808-Bldg28</div>	<div>Project Number</div> <div>909-2898</div> <div>Building Number</div> <div>28</div> <div>Drawing Number</div> <div>BD28-2</div> <div>Dwg. 2 of 5</div>	<div>Office of Construction and Facilities Management</div> <div>  Department of Veterans Affairs </div>
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SHEET NOTES

1. DRYWALL AND PLASTER CONTAIN
TRACE AMOUNTS OF ACTINOLITE/
TREMOLITE

GRAPHIC LEGEND



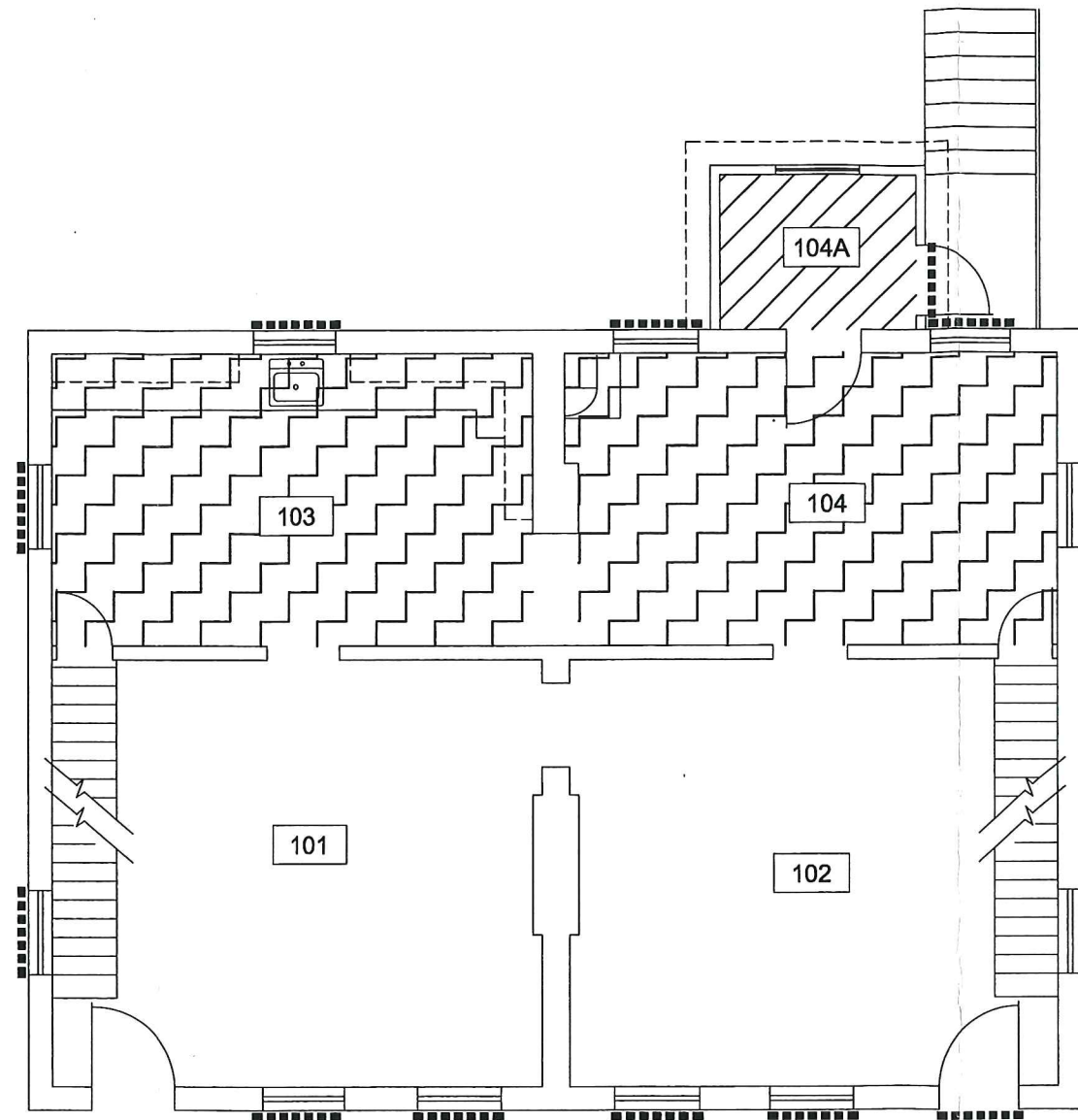
12"X12" FLOOR TILE AND MASTIC



LINOLEUM SHEET FLOORING



ACM CONTAINING EXTERIOR WINDOW
AND DOOR CAULKING



FIRST FLOOR ACM LOCATION PLAN

SCALE: 1/8" = 1'-0"



CONSULTANTS:



201 South 30th Street
Billings, Montana
Phone: 406-245-7766
Fax: 406-254-1428
www.northernih.com

ARCHITECT/ENGINEERS:

VCI Project Management
Construction Management
Engineering

Drawing Title

BUILDING 28 FIRST FLOOR
ACM LOCATION PLAN

Approved Project Director

Project Title

DEPARTMENT OF VETERAN
AFFAIRS

Location
SHERIDAN, WY

Date
11/01/2015

Checked
KO

Drawn
PB

CAD FILE
2898-Bldg28

Project Number
999-2898

Building Number
28

Drawing Number
BD28-3

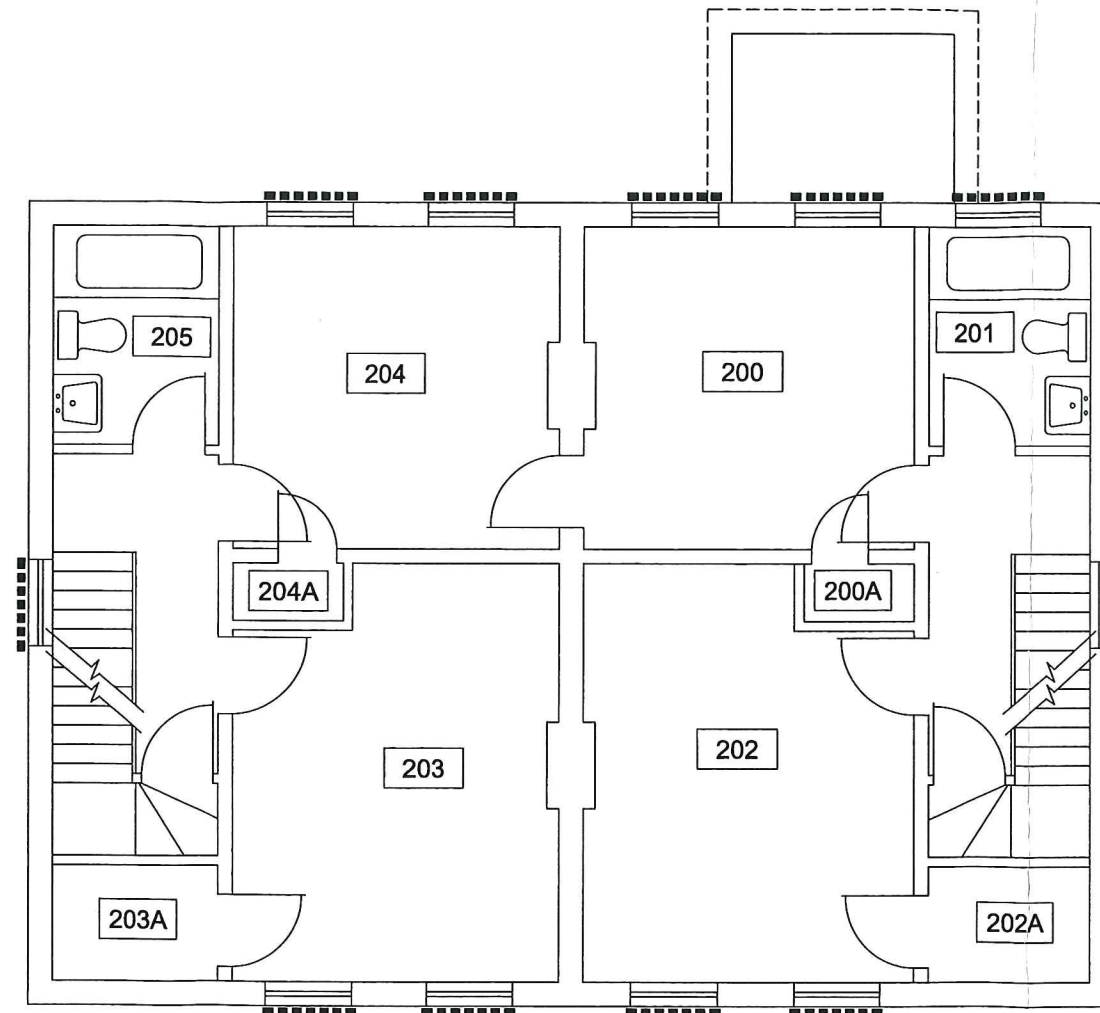
Dwg. 3 of 5

Office of
Construction
and Facilities
Management



Revisions

Date



GRAPHIC LEGEND

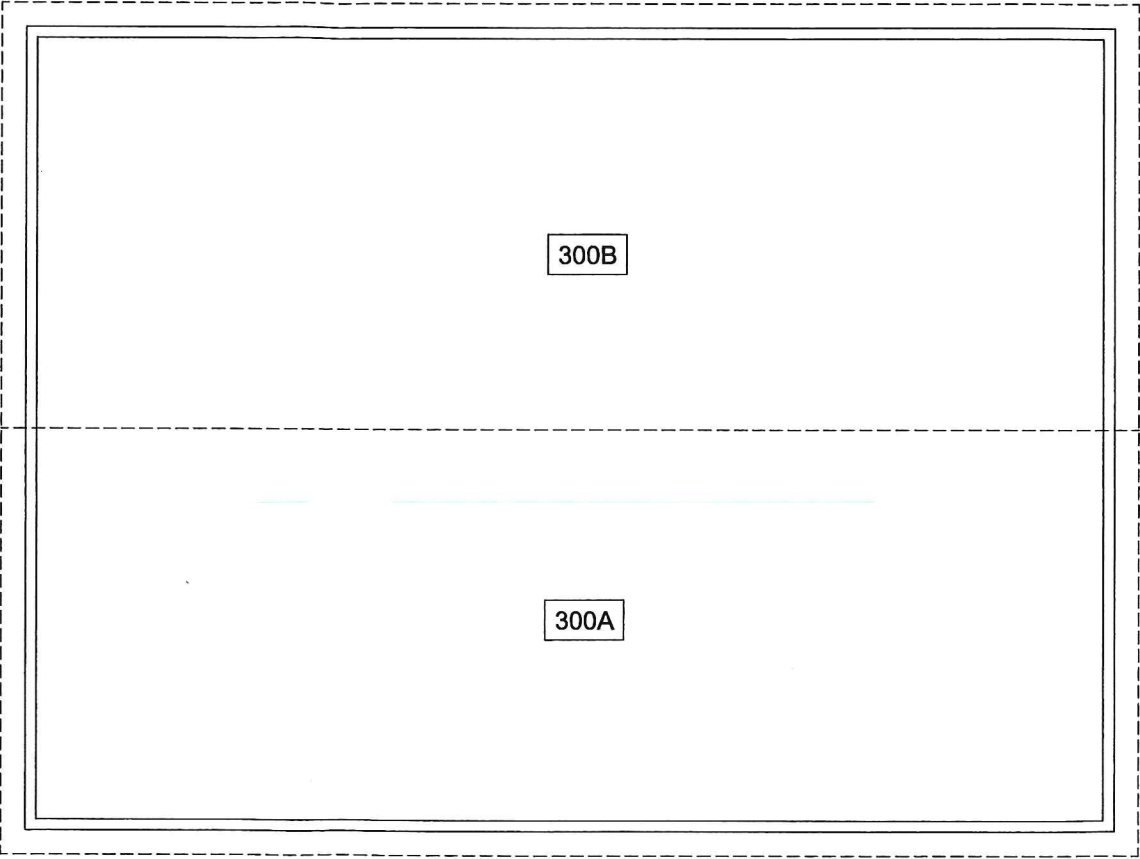
■■■■■ ACM CONTAINING EXTERIOR WINDOW AND DOOR CAULKING

SECOND FLOOR ACM LOCATION PLAN

SCALE: 1/8" = 1'-0"




<p>Revisions:</p> <p>Date</p>	<p>CONSULTANTS:</p> <p>NORTHERN INDUSTRIAL HYGIENE, INC.</p> <p>201 South 30th Street Billings, Montana Phone: 406-245-7766 Fax: 406-254-1428 www.northernih.com</p>	<p>ARCHITECT/ENGINEERS:</p> <p>VCI Project Management Construction Management Engineering</p>	<p>Drawing Title BUILDING 28 SECOND FLOOR ACM LOCATION PLAN</p> <p>Approved Project Director</p>	<p>Project Title ASBESTOS SURVEY REPORT</p> <p>Location SHERIDAN, WY</p> <p>Date 11/01/2015</p> <p>Checked KO</p> <p>Drawn PB</p> <p>CAD FILE 2898-Bldg28</p>	<p>Project Number 999-2898</p> <p>Building Number 28</p> <p>Drawing Number BD28-4</p> <p>Dwg. 4 of 5</p>	<p>Office of Construction and Facilities Management</p> <p></p>
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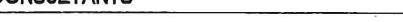


SHEET NOTES

1. NO ASBESTOS CONTAINING MATERIALS
IDENTIFIED ON THIS FLOOR OF THIS
BUILDING.

**ATTIC FLOOR ACM
LOCATION PLAN**

SCALE: 1/8" = 1'-0" 

		CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title BUILDING 28 ATTIC FLOOR ACM LOCATION PLAN		Project Title ASBESTOS SURVEY REPORT		Project Number 999-2898		Office of Construction and Facilities Management							
		 NORTHERN INDUSTRIAL HYGIENE, INC.		201 South 30th Street Billings, Montana Phone: 406-245-7766 Fax: 406-254-1428 www.northernih.com		VCI Project Management Construction Management Engineering		Location SHERIDAN, WY		Building Number 28									
Revisions:		Date				Approved Project Director		Date 11/01/2015		Checked KO		Drawn PB		CAD FILE 2898-Bldg28		Drawing Number BD28-5		Dwg. 5 of 5	



215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
EMAIL: Rmelgoza@bridgeband.com
NVLAP Lab Code: 200511-0

7/29/2015

Mark Oliver
Northern Industrial Hygiene, Inc.
201 South 30th Street
Billings, MT 59101-

RE: Bulk Asbestos Fiber Analysis; Batch # 15-00729
Project Location VA Sheridan - Building 28

Dear Mark Oliver,

Thank you for choosing Northern Industrial Hygiene, Inc. as your laboratory. Enclosed you will find analytical results for the bulk samples submitted to the laboratory.

Northern Industrial Hygiene is accredited by NVLAP Lab Code: 200511-0. Accreditation by NVLAP does not indicate endorsement by NVLAP or any other government agency. All bulk samples are analyzed in accordance with U.S. EPA Method -600/M4-82-020, December 1982 and EPA Method 600/R-93-116, July 1993. "Method for Determination of Asbestos in Bulk Building Materials"(NESHAP, 40 CFR-Part 61) protocol.

Analysis is cross checked through our inter or intra laboratory quality assurance program for verification. The percent values reported are based on calibrated visual estimates by volume unless verification by Point Count is indicated. Test results reported relate only to the samples submitted by the customer to Northern Industrial Hygiene, Inc. Trace amounts of asbestos are below the limit of detection and asbestos fibers with diameters below approximately 0.25 micrometers are not detectable with the Polarized Light Microscopy (PLM) analytical procedure. A trace amount of asbestos is defined as one to five fibers in three slide mounts. Asbestos found in this amount will be reported as "< 1.0%" by PLM analysis.

This report is highly confidential and shall not be reproduced without your written approval and the written approval of Northern Industrial Hygiene, Inc.

Samples are archived for thirty (30) days following analysis. Please contact us if samples need to be archived longer than the standard holding time.

Thank you for using Northern Industrial Hygiene, Inc. If you have any questions or concerns please contact us.

Sincerely,

Reviewed by: Rachel Melgoza

Enclosure: Bulk Sample Results



215 SW 153rd Street Burien, WA 98166
OFFICE: (206) 988-1746 FAX: (206) 988-1978
NVLAP Lab Code: 200511-0

Bulk Asbestos Analysis Report

Northern Industrial Hygiene, Inc.

201 South 30th Street

Billings, MT 59101-

Project Location: VA Sheridan - Building 28

NIH Batch Number: 15-00729

Client Job Number: 999-2898

Turn Around Time: 5 Day

Samples Analyzed: 3

Client Sample Number:	M12.1A	Lab Sample Number: 15-00729.0001
Client Sample Description:	4" Tan Vinyl Cove Base	
Client Sample Location:	Kitchen	
Sample Comments:		Checked If Sample Not Analyzed <input type="checkbox"/>

Layer 1 Beige vinyl

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 Yellow pliable adhesive

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	1% Cellulose	99% Filler and Binder

Client Sample Number:	M12.1B	Lab Sample Number: 15-00729.0002
Client Sample Description:	4" Tan Vinyl Cove Base	
Client Sample Location:	Kitchen	
Sample Comments:		Checked If Sample Not Analyzed <input type="checkbox"/>

Layer 1 Beige vinyl

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Layer 2 Yellow pliable adhesive

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected	3% Cellulose	97% Filler and Binder

Client Sample Number:	M12.1C	Lab Sample Number: 15-00729.0003
Client Sample Description:	4" Tan Vinyl Cove Base	
Client Sample Location:	Dining Room	
Sample Comments:	No adhesive present	Checked If Sample Not Analyzed <input type="checkbox"/>

Beige vinyl

Asbestos Fibrous Components:	Non-Asbestos Fibrous Components:	Non-Fibrous Components:
No Asbestos Detected		100% Vinyl Filler and Binder

Sampled by: Mark Oliver
Received by: Regina Mirabal
Analyzed by: Rachel Melgoza

7/10/2015
7/20/2015
7/29/2015

Rachel Melgoza

Reviewed 7/29/2015 by: Rachel Melgoza