ASBESTOS INSPECTION REPORT of: Building # HP510 MCB CAMP LEJEUNE



Print Date

Monday, April 6, 2020

INSPECTION SUMMARY

BLDG #: YEAR BUILT:

OCCUPANT: ASBESTOS MANAGER: 910-451-5837

BUILDING COMMENTS:

NOTIFICATION OF ACM IN BUILDING

NOTICE: The following asbestos-containing materials have been identified in this structure. Refer to survey findings for additional information or contact the Asbestos Program Manager. Please note ACM that is intact and undisturbed is not considered a significant health hazard to building occupants.

Friable ACM(s) identified

DESCRIPTION LOCATION Date Quantity

No friable ACM records found in database

Non-friable ACM(s) identified

DESCRIPTION LOCATION Date Quantity

No non friable ACM records found in database

Tested Non ACM or REMOVED Materials

DESCRIPTION LOCATION Date

No non ACM records found in database

HEALTH ASPECTS: ACM only presents a health hazard when asbestos fibers are airborne and inhaled.

Avoid disturbance which will release fibers. The presence of asbestos does not

constitute a health hazard.

CONDITIONS TO AVOID: Do not disturb or cause damage to ACM. Do not sand, grind or abrade materials or

cause damage with any type of equipment.

REPORTS OF DAMAGE: Report any damage, dust or debris that may come from ACM or suspect ACM, or any

change in the condition of materials, or accidental disturbance to the Asbestos Program

Manager.

RESPONSE ACTION: Corrective action initiated to minimize fiber release and protect personnel.

INSPECTION: ACM will be inspected periodically to evaluate any changes in condition.

RECORDKEEPING: The Camp Lejeune Asbestos Program Manager maintains a copy of the survey for the

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Print Date: Monday, April 6, 2020 Page 2 of 4

CAMP LEJEUNE Asbestos Program Manager:

Phone: (910) 451-5837

SAMPLES COLLECTED

NO RECORDS AVAILABLE

Print Date: Monday, April 6, 2020 Page 4 of 4



CEMS Engineering

Comprehensive Interior/Exterior Asbestos Survey Report

HP510 - BEQ Marine Corps Base Camp Lejeune, North Carolina

May 22, 2018





Robert Elbertson

Robert Elbertson NC AHERA Inspector relbertson@cceinc.biz Comprehensive Interior/Exterior Asbestos Survey Report

HP510 – BEQ Marine Corps Base Camp Lejeune, NC

Prepared for:

Mr. Randy Alvar

Prepared by:

Crystal Coast Environmental, Inc.

10302 Bristow Center Dr.

Suite: 115

Bristow, VA 20136 Tel: 910.938.7998 Fax: 910.938.3441 www.cceinc.biz

Our Ref.: 18-5162

Date:

May 22, 2018

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law.



rystal Coast Environmental, Inc.

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APPENDICES

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- B Inspector Accreditations
- C Homogeneous Applications
- D Asbestos Sample Locations
- E Laboratory Report (NVLAP) Asbestos Bulk Sample Results
- F Photograph Logs





Mr. Randy Alvar May 22, 2018

1. Introduction

As requested by Mr. Randy Alvar, Crystal Coast Environmental, Inc. (CCEI) conducted a Comprehensive Interior/Exterior Asbestos Survey (CIES) of the above-referenced building/project. The survey consisted of visually observing the interior and exterior, then collecting a representative number of samples for subsequent laboratory analyses as described below. The objective of the survey was to identify and quantify asbestos-containing building materials (ACBMs) for future planned renovations or demolition activity. The sampling shall be consistent with areas that have historically tested positive for ACBMs in previous BEQ surveys.

As directed by the client, destructive testing was performed on flooring material to identify materials which may be hidden or obstructed by layers of wood substrate. Unless noted herein, no other destructive testing was conducted to expose other potentially hidden or obstructed material. Examples of other areas include, but are not limited to: interior wall cavities, pipe chases, spaces above fixed ceilings, grout/adhesive beneath ceramic tiles/marble tiles/granite, and adhesives behind wall mounted mirrors, etc.

The survey was conducted on May 4, 2018 by Mr. Robert Elbertson. A copy of inspector's accreditation is provided in **Appendix B**.

2. Methodology

CCEI conducted the CIES in general accordance with ASTM E2356-09 Standard Practice for Comprehensive Building Asbestos Surveys. ASTM E2356-09 meets the applicable requirements of current Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) Standard 40 CFR 61, Subpart M (Asbestos); EPA Asbestos Hazard Emergency Response Act (AHERA) Standard 40 CFR 763, Subpart E; and Occupational Safety and Health Administration (OSHA) asbestos survey and/or sampling regulations.

CCEI visually observed readily accessible areas for suspect ACBMs. Identified suspect materials were divided into "Homogeneous Applications" (HAs) - i.e., building materials which were determined by the inspector to be homogeneous based on their color, texture, and assumed date of installation.

Representative samples were then collected from selected HAs. The numbers of samples collected was based on CCEI's in-house sampling protocol, which is based in part on the U.S. Environmental Protection Agency (U.S. EPA) Asbestos Hazard Emergency Response Act (AHERA) regulations. Each sample was assigned its own





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unique identification number, placed in 4 mil sealable plastic bags, and tightly sealed for subsequent shipment under a chain of custody protocol to EMSL located in Morrisville, North Carolina.

3. Analytical Methods

Material identification was performed by EMSL using Polarized Light Microscopy with Dispersion Staining (PLM/DS) method in accordance with the U.S. EPA Method 600/R-93/116. Asbestos content in each sample was evaluated based on a visual examination of each sample using a stereoscope.

EMSL is a member of the American Industrial Hygiene Association (AIHA) and accredited through the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology (NIST). The laboratory analytical report is provided in **Appendix E**.

4. Findings

A total of 13 HAs were identified throughout the Site, and a total of 27 suspect ACBM bulk samples were collected and submitted for laboratory analysis. A listing of HAs identified along with each HA material description, location, condition, asbestos content and estimated quantity are presented in **Appendix C**. Approximate sampling locations are shown in the **Appendix D**.

5. Conclusions and Recommendations

As presented in **Appendix C** and the laboratory data provided in **Appendix E**, the results of the asbestos survey did not identify ACBMs at the Site.

In accordance with current EPA National Emission Standards for Hazardous Pollutants (NESHAP) regulations, certain types of ACM must be removed prior to being disturbed by demolition or renovation activities. Current EPA NESHAP and Health Hazards Control Unit (HHC) of North Carolina Department of Health and Human Service (DHHS) regulations require that all Regulated ACMs (RACM) be removed prior to being disturbed. RACMs are defined as:

- Friable ACM.
- Non-Friable Category 1 ACM that has become friable.
- Non-Friable Category 1 ACM that has been or will be subjected to sanding, abrading, grinding, or cutting.





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 Non-Friable Category 2 ACM that has a high probability of becoming friable or crumbled, pulverized, or otherwise reduced to powder by the demolition or renovation activities.

In some cases, materials which may be ACBMs were identified as "Suspect ACM, Not Sampled" in the HAT. These include materials that could not safely be accessed during the survey, were labeled as PACM based on the inspector's field determination. Until determined otherwise, suspect and not sampled materials have been assumed to be ACBMs and should be managed as asbestos-containing in accordance with the local, state, and federal regulations.

If other suspect materials that are not referenced in this report are identified during demolition and/or renovation activities, CCEI recommends that these materials be considered as ACBM until they are inspected by an appropriately licensed asbestos inspector and proven otherwise.

Prior to demolition activities and when it is safe to do so, CCEI recommends sampling the PACM identified in this survey. Should these materials prove to be non-ACMs this could result in significant cost savings.

Due to the inability to effectively separate some types of multi-layered ACBMs (i.e., floor tile/mastic, mastic/wood subflooring, gypsum board/joint compound, etc.) from non-ACMs these materials are considered "asbestos-contaminated" for the purposes of removal, and should be managed as ACBM.

ACBMs identified at the Site that may be disturbed during demolition activities, must be removed by a licensed asbestos abatement contractor utilizing industry standard work procedures in accordance with all federal, state and local regulations governing asbestos.

Asbestos waste must be disposed at an asbestos waste receiving facility that is duly permitted by the state and/or local municipality in which it resides. The asbestos waste should be disposed in a landfill with a NESHAP condition in the facility's air permit that allows acceptance of RACM.

6. Additional Survey Limitations

CCEI's asbestos survey is subject to the following limitations in addition to those presented in **Appendix A**:



Comprehensive Interior/Exterior Asbestos Survey Report

Mr. Randy Alvar May 22, 2018

- Utilities/services, including electric were assumed to be active in the areas surveyed. Materials associated with electrical components and energized equipment, were not safely accessible and were not sampled.
- Subsurface investigations, including access to below grade structures, underground piping, conduits, building footings and extent of subsurface soil asbestos contamination if any was not accessible at the time of the survey. Should you decide to remove/demolish below grade structures, an additional investigation may be warranted to determine if the below grade structures contain or are coated with ACMs.

Limitations and Service Constraints

The opinions, conclusions and recommendations presented in this report are limited to the information obtained during the performance of the specific scope of service identified in the report. To the extent that Crystal Coast Environmental, Inc. (CCEI) relied upon any information prepared by other parties not under direct contract to CCEI, no representation as to the accuracy or completeness of such information is made. This report is an instrument of professional service and the services described in the report were performed in accordance with generally accepted standards and level of skill and care ordinarily exercised by members of the profession working under similar conditions including comparable budgetary and schedule constraints. No warranty, guarantee or certification express or implied, is intended or given with respect to CCIE's services, opinions, conclusions or recommendations. This statement is in lieu of any other statement either expressed or implied.

CCEI's observations, the results of testing and CCEI's opinions, conclusions and recommendations apply solely to conditions existing at the specific times when and specific locations where CCEI's investigative work was performed. Observation and testing activities such as those conducted by CCEI are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site, building or area may vary from conditions at the specific locations where observations were made and where testing was performed by CCEI. Additionally, other building material hazards which were not identified by CCEI, may also be present in the indoor air, un-accessed areas and in walls, ceilings, cavities and floors. Therefore, the extent of CCEI's opinions, conclusions and recommendations are limited and 100% confidence in these opinions, conclusions and recommendations cannot reasonably be achieved. Nothing contained in this report shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards nor shall it be considered medical advice or consultation.

This report may document whether work conducted by CCEI or under CCEI's observation was done so in accordance with applicable regulatory standards. In the absence of standards such as is often the case for microbial assessment and abatement, this report may not be construed as providing clearance, approval, or authorization for use or re-occupancy of a given structure. Actual site conditions and quantities should be field verified and unless expressly stated.

This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for and for the particular purpose outlined in the report. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.



North Carolina Department of Health and Human Services Division of Public Health

Roy Cooper Governor Mandy Cohen, MD, MPH
Secretary

Daniel Stanley
Director

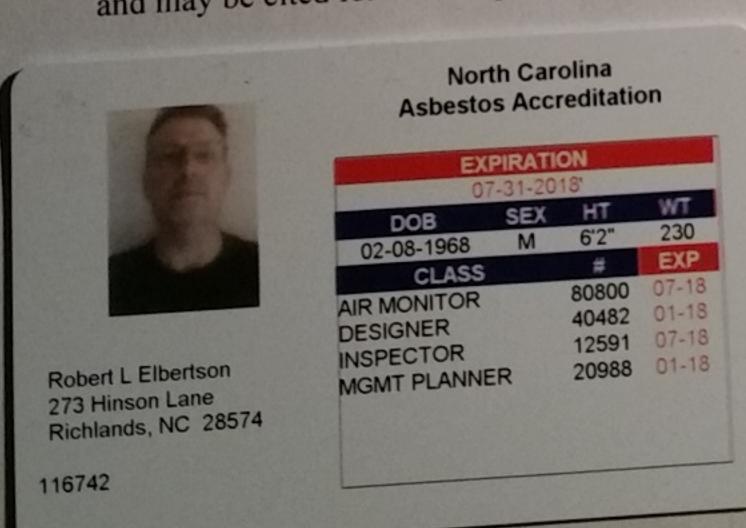
September 8, 2017

Robert L Elbertson 273 Hinson Lane Richlands, NC 28574

Dear Mr. Elbertson:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 12591, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on JULY 31, 2018. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application expiration date, you must successfully complete the required training and submit a completed application expiration to July 31, 2018. If you should continue to perform asbestos management activities as to this office prior to July 31, 2018. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.

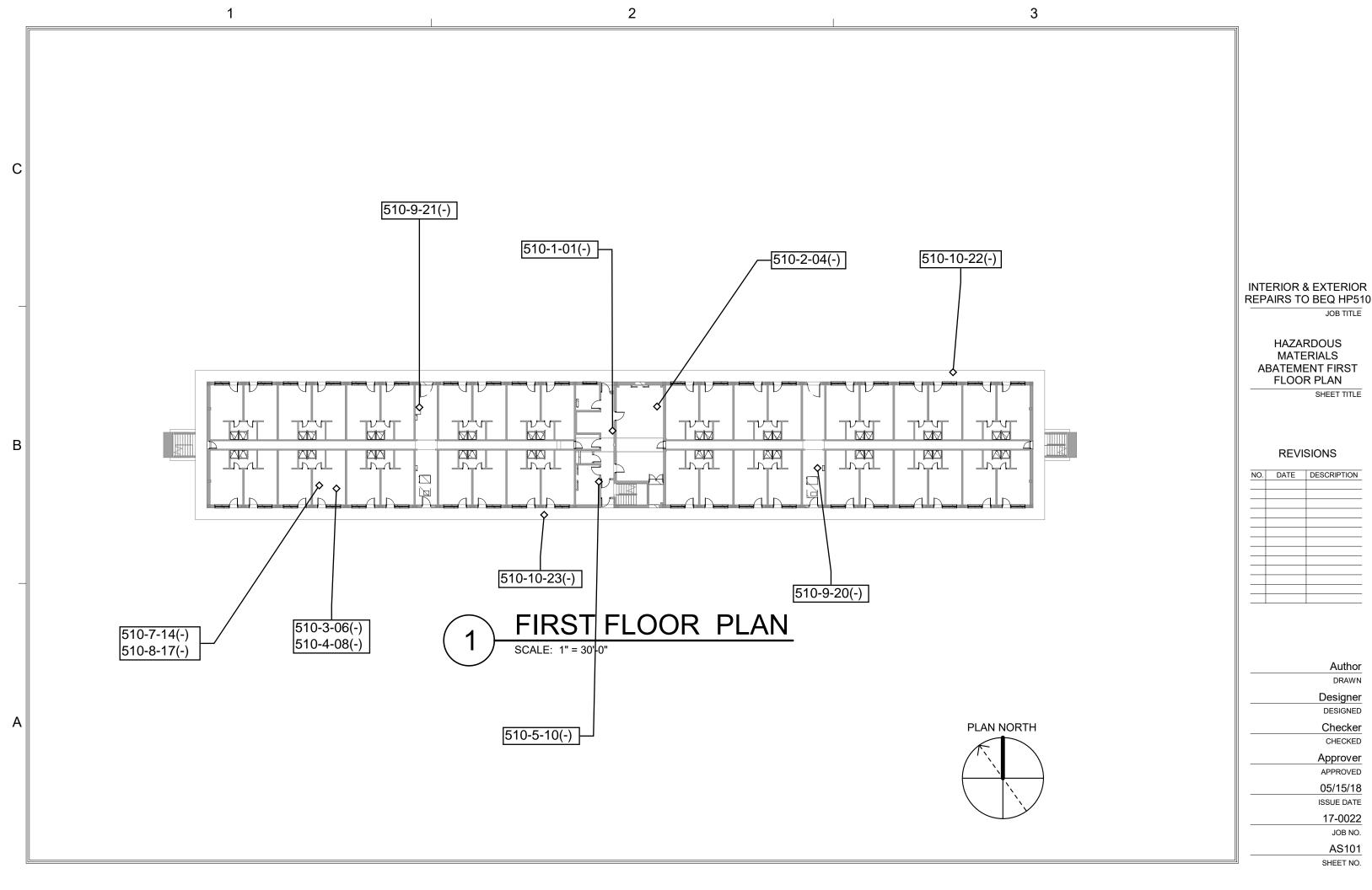


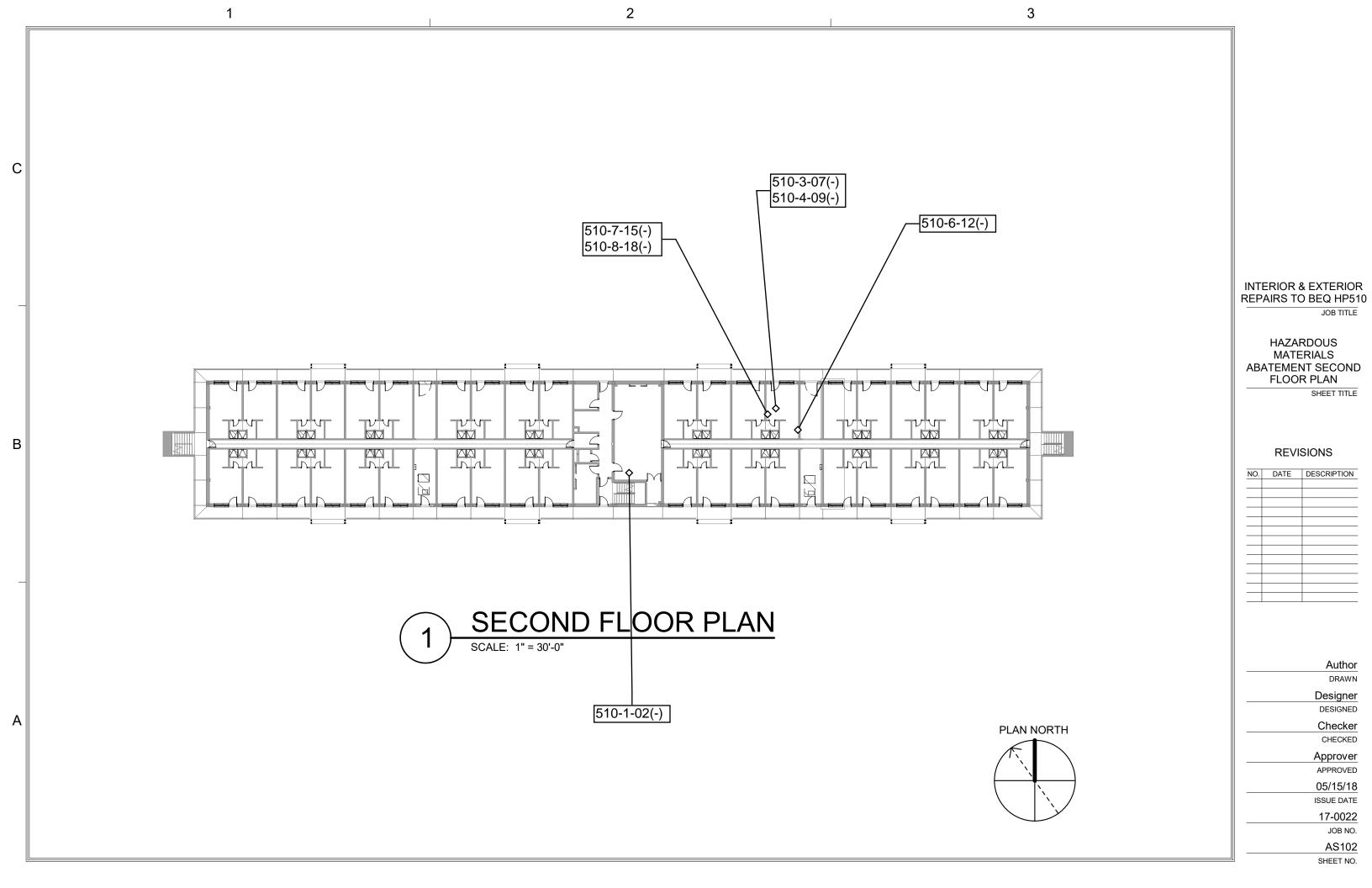
Sincerely,

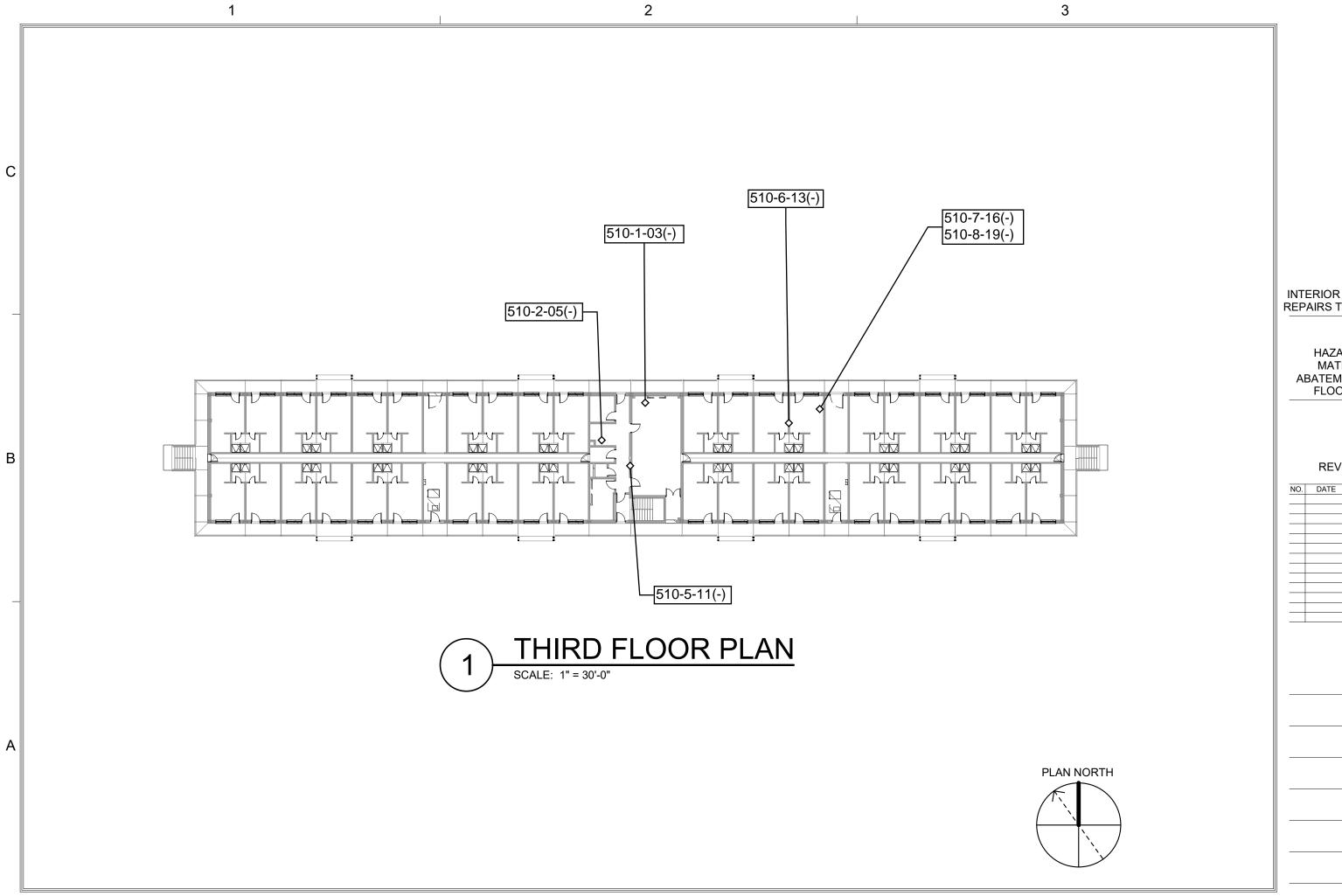
Ed Norman Program Manager Health Hazards Control Unit

HA No.	Material Type	Primary Color	Texture	Description	NESHAP Cat.	Friable	Rooms	Location	Condition	Amt.	Units	Remarks
1	M - Ceiling Texture	White	Rough	Spray-on Ceiling Texture	Non-ACM, Sampled	Yes	Throughout	Ceiling	Good			Non-ACM are not quantified
2	M - Ceiling Tile - 2' x 2'	White	Rough	2' x 2' Cellulose Ceiling Tile	Non-ACM, Sampled	Yes	Hallways and Lounges	Ceiling	Good			Non-ACM are not quantified
3	M - Gypsum Board (walls and ceilings)	Gray	Smooth	Gypsum Board	Non-ACM, Sampled	No	Dorm Rooms	Wall	Good			Non-ACM are not quantified
4	M - Joint Compound (associated with wall/ceiling board/panels)	White	Rough	Joint Compound	Non-ACM, Sampled	Yes	Dorm Rooms	Wall	Good			Non-ACM are not quantified
5	M - Cove Base Mastic	Yellow	Rough	Mastic Associated with Brown Vinyl Cove Base	Non-ACM, Sampled	No	Dorm Rooms	Wall	Good			Non-ACM are not quantified
6	M - Cove Base Mastic	Brown	Rough	Mastic Associated with Black Vinyl Cove Base	Non-ACM, Sampled	No	Hallway and Lounges	Wall	Good			Non-ACM are not quantified
7	M - Floor Tile - 12" x 12"	Gray	Smooth	1' x 1' Vinyl Floor Tile	Non-ACM, Sampled	No	Dorm Rooms	Floor	Good			Non-ACM are not quantified
8	M - Floor Tile - Mastic/Adhesive	Black	Rough	Mastic Associated with HA-7	Non-ACM, Sampled	No	Dorm Rooms	Floor	Good			Non-ACM are not quantified
9	M - Mastic/Skimcoat/Taping Compounds on Duct Insulation Seams	Gray	Rough	HVAC Duct Mastic/Tape	Non-ACM, Sampled	No	Mechanical Rooms	Other	Good			Non-ACM are not quantified
10	M - Exterior - Expansion Joint Caulk/Sealant	Brown	Smooth	Expansion Joint Caulk	Non-ACM, Sampled	No	Exterior	Floor	Good			Non-ACM are not quantified
11	M - Roof - Rubber Membrane Mastic/Sealant	White	Smooth	Rubber Roofing Membrane	Non-ACM, Sampled	No	Roof	Roof	Good			Non-ACM are not quantified
12	M - Roof - Roof Penetration Mastic (Roof Vents/Pipes/etc.)	Gray	Smooth	Vent Pipe Penetration Mastic	Non-ACM, Sampled	No	Roof	Roof	Good			Non-ACM are not quantified
13	M - Construction Mastics - Describe	Not Visible	Not Visible	Mastic associated with shower pans	Presumed ACM, Not	No	Dorm Rooms	Floor	Good	96	EA	Quantities are an approximation

HA No.	Material Type	ID	Location	Content	Туре	Sample Date	Consultant	Method	Lab
1	M - Ceiling Texture	510-1-01	1st Floor Hallway	ND		5/4/2018	CCEI	PLM	EMSL
1	M - Ceiling Texture	510-1-02	2nd Floor Lounge	ND		5/4/2018	CCEI	PLM	EMSL
1	M - Ceiling Texture	510-1-03	3rd Floor Lounge	ND		5/4/2018	CCEI	PLM	EMSL
2	M - Ceiling Tile - 2' x 2'	510-2-04	1st Floor Loung	ND		5/4/2018	CCEI	PLM	EMSL
2	M - Ceiling Tile - 2' x 2'	510-2-05	3rd Floor Hallway	ND		5/4/2018	CCEI	PLM	EMSL
3	M - Gypsum Board (walls and ceilings)	510-3-06	109	ND		5/4/2018	CCEI	PLM	EMSL
3	M - Gypsum Board (walls and ceilings)	510-3-07	224	ND		5/4/2018	CCEI	PLM	EMSL
4	M - Joint Compound (associated with wall/ceiling board/panels)	510-4-08	109	ND		5/4/2018	CCEI	PLM	EMSL
4	M - Joint Compound (associated with wall/ceiling board/panels)	510-4-09	224	ND		5/4/2018	CCEI	PLM	EMSL
5	M - Cove Base Mastic	510-5-10	1st Floor Hallway	ND		5/4/2018	CCEI	PLM	EMSL
5	M - Cove Base Mastic	510-5-11	3rd Floor Hallway	ND		5/4/2018	CCEI	PLM	EMSL
6	M - Cove Base Mastic	510-6-12	224	ND		5/4/2018	CCEI	PLM	EMSL
6	M - Cove Base Mastic	510-6-13	324	ND		5/4/2018	CCEI	PLM	EMSL
7	M - Floor Tile - 12" x 12"	510-7-14	109	ND		5/4/2018	CCEI	PLM	EMSL
7	M - Floor Tile - 12" x 12"	510-7-15	224	ND		5/4/2018	CCEI	PLM	EMSL
7	M - Floor Tile - 12" x 12"	510-7-16	324	ND		5/4/2018	CCEI	PLM	EMSL
8	M - Floor Tile - Mastic/Adhesive	510-8-17	109	ND		5/4/2018	CCEI	PLM	EMSL
8	M - Floor Tile - Mastic/Adhesive	510-8-18	224	ND		5/4/2018	CCEI	PLM	EMSL
8	M - Floor Tile - Mastic/Adhesive	510-8-19	321	ND		5/4/2018	CCEI	PLM	EMSL
9	M - Mastic/Skimcoat/Taping Compounds on Duct Insulation Seams	510-9-20	Mechanical Room 2	ND		5/4/2018	CCEI	PLM	EMSL
9	M - Mastic/Skimcoat/Taping Compounds on Duct Insulation Seams	510-9-21	Mechanical Room 4	ND		5/4/2018	CCEI	PLM	EMSL
10	M - Exterior - Expansion Joint Caulk/Sealant	510-10-22	Exterior	ND		5/4/2018	CCEI	PLM	EMSL
10	M - Exterior - Expansion Joint Caulk/Sealant	510-10-23	Exterior	ND		5/4/2018	CCEI	PLM	EMSL
11	M - Roof - Rubber Membrane Mastic/Sealant	510-11-24	Roof	ND		5/4/2018	CCEI	PLM	EMSL
11	M - Roof - Rubber Membrane Mastic/Sealant	510-11-25	Roof	ND		5/4/2018	CCEI	PLM	EMSL
12	M - Roof - Roof Penetration Mastic (Roof Vents/Pipes/etc.)	510-12-26	Roof	ND		5/4/2018	CCEI	PLM	EMSL
12	M - Roof - Roof Penetration Mastic (Roof Vents/Pipes/etc.)	510-12-27	Roof	ND		5/4/2018	CCEI	PLM	EMSL







INTERIOR & EXTERIOR REPAIRS TO BEQ HP510

JOB TITLE

HAZARDOUS MATERIALS ABATEMENT THIRD FLOOR PLAN

SHEET TITLE

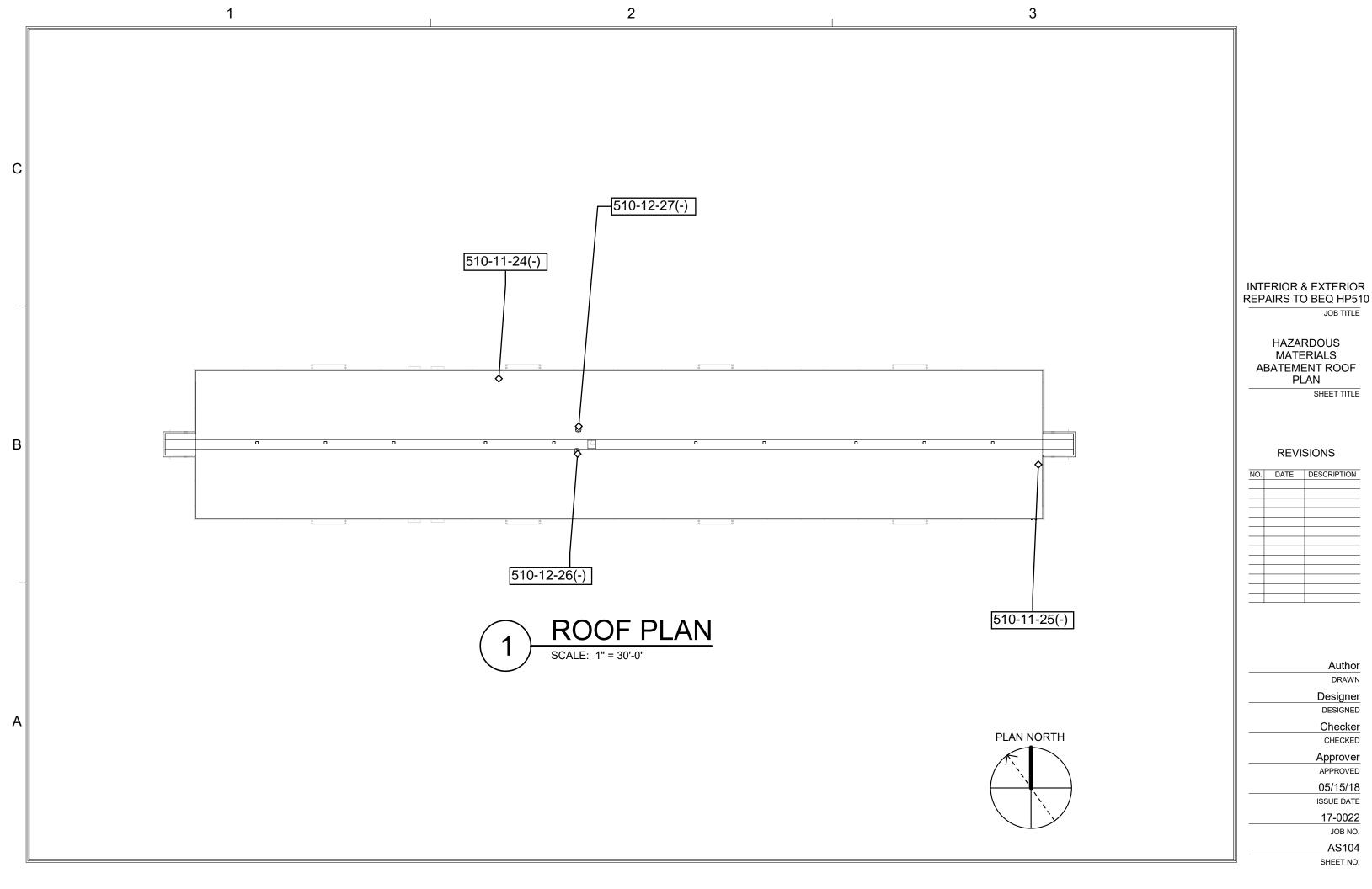
REVISIONS

NO.	DATE	DESCRIPTION

 Author
DRAWN
 Designer
DESIGNED
 Checker
CHECKED
 Approver
APPROVED
05/15/18

AS103 SHEET NO.

17-0022 JOB NO.





EMSL Analytical, Inc.

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560

Tel/Fax: (919) 465-3900 / (919) 465-3950 http://www.EMSL.com / raleighlab@emsl.com

EMSL Order: 291803843 Customer ID: BUFF52

Customer PO: Project ID:

Attention: Robert Elbertson

Crystal Coast Environmental, Inc.

10302 Bristow Center Drive

#115

Bristow, VA 20136

Project: 18-5162 HP510 Samp Lejeune, NC

Received Date: 05/08/2018 10:15 AM **Analysis Date:** 05/15/2018

Phone: (910) 330-7410

Fax: (910) 938-3441

Collected Date: 05/04/2018

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

\$40-1-01 \$10-1-01 \$291803843-0001 \$10-1-02 \$291803843-0002 \$510-1-03	Description Spray-On Ceiling Texture Spray-On Ceiling Texture	Appearance White Non-Fibrous Homogeneous	% Fibrous	% Non-Fibrous 100% Non-fibrous (Other)	% Type None Detected
291803843-0001 510-1-02 291803843-0002	Texture Spray-On Ceiling	Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
510-1-02 291803843-0002		-			
291803843-0002					
		White Non-Fibrous		100% Non-fibrous (Other)	None Detected
510-1-03	000-11	Homogeneous		4000/ New Shares (Others)	Non-Batastad
291803843-0003	Spray-On Ceiling Texture	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
	Ol-OLO-WTi-	Homogeneous	000/ 0-11-1	AEO/ Desilie	Non-Batastad
510-2-04 291803843-0004	2'x2' Ceiling Tile	White/Beige Fibrous	30% Cellulose 40% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
	OhiOl Cailing Tile	Homogeneous	200/ Callulana	15% Perlite	Nama Datastad
510-2-05 291803843-0005	2'x2' Ceiling Tile	Gray/White Fibrous Homogeneous	30% Cellulose 40% Min. Wool	15% Non-fibrous (Other)	None Detected
510-3-06	Gypsum Board	Brown/Gray	15% Cellulose	80% Non-fibrous (Other)	None Detected
291803843-0006	Зурзин Боага	Fibrous Homogeneous	5% Glass	CO /0 INOTI-IIDIOGO (OCCICI)	None Detected
510-3-07	Gypsum Board	Brown/Gray	20% Cellulose	77% Non-fibrous (Other)	None Detected
291803843-0007	Cypsum Board	Fibrous Homogeneous	3% Glass	77 % NOTHIDIOUS (Other)	None Detected
510-4-08	Joint Compound	White	2% Wollastonite	98% Non-fibrous (Other)	None Detected
291803843-0008		Fibrous Homogeneous			
510-4-09	Joint Compound	White	<1% Wollastonite	100% Non-fibrous (Other)	None Detected
291803843-0009		Non-Fibrous Homogeneous		,	
510-5-10	Cove Base Mastic	Brown	2% Cellulose	98% Non-fibrous (Other)	None Detected
291803843-0010	(Brown)	Fibrous Homogeneous			
510-5-11	Cove Base Mastic	Brown	<1% Cellulose	100% Non-fibrous (Other)	None Detected
-	(Brown)	Non-Fibrous			
291803843-0011		Homogeneous			
510-6-12	Cove Base Mastic (Yellow)	Yellow Fibrous	2% Cellulose <1% Synthetic	98% Non-fibrous (Other)	None Detected
291803843-0012		Homogeneous			
510-6-13	Cove Base Mastic (Yellow)	Tan Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected
291803843-0013		Homogeneous			
510-7-14	1'x1' Vinyl Floor Tile	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
291803843-0014		Homogeneous			
510-7-15	1'x1' Vinyl Floor Tile	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
291803843-0015	41.417.6.151	Homogeneous		1000/ 11 51 (01)	N 5 / / :
510-7-16 291803843-0016	1'x1' Vinyl Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/15/2018 10:14:32

EMSL Order: 291803843 **Customer ID:** BUFF52

Customer PO: Project ID:

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

			Non-Asbest	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
510-8-17	Floor Tile Mastic	Black Fibrous	3% Cellulose	97% Non-fibrous (Other)	None Detected	
291803843-0017		Homogeneous				
510-8-18	510-8-18 Floor Tile Mastic		3% Cellulose	97% Non-fibrous (Other)	None Detected	
291803843-0018		Homogeneous				
510-8-19	Floor Tile Mastic	Black Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected	
291803843-0019		Homogeneous				
510-9-20-Mastic	HVAC Duct Mastic/Tape	White Fibrous	3% Wollastonite	97% Non-fibrous (Other)	None Detected	
291803843-0020		Homogeneous				
510-9-20-Tape	HVAC Duct Mastic/Tape	Brown/Silver Fibrous	45% Cellulose 10% Glass	45% Non-fibrous (Other)	None Detected	
291803843-0020A	LIVA O Decet	Homogeneous	00/ 0 - 11-1	OFO(New Shares (Other)	News Beterf	
510-9-21-Mastic	HVAC Duct Mastic/Tape	White Fibrous Homogeneous	3% Cellulose 2% Wollastonite	95% Non-fibrous (Other)	None Detected	
	HVAC Duct	Brown/Silver	45% Cellulose	35% Non-fibrous (Other)	None Detected	
510-9-21-Tape 291803843-0021A	Mastic/Tape	Fibrous Homogeneous	20% Glass	35% NOTI-IIDIOUS (Other)	None Detected	
510-10-22	Expansion Joint Caulk	Gray	2% Cellulose	98% Non-fibrous (Other)	None Detected	
291803843-0022	Expansion Joint Cauk	Fibrous Homogeneous	270 Centilose	30 % Non-librous (Other)	None Detected	
Sample bag does not match	COC.	riomogeneous				
510-10-23	Expansion Joint Caulk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
291803843-0023		Homogeneous				
Sample bag does not match	COC.	J				
510-11-24-Membrane	Rubber Roofing Membrane	Gray/White/Blue Fibrous	10% Synthetic	90% Non-fibrous (Other)	None Detected	
291803843-0024		Homogeneous				
510-11-24-Mastic	Rubber Roofing Membrane	Yellow Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected	
291803843-0024A		Homogeneous				
510-11-25-Membrane	Rubber Roofing Membrane	White/Blue Fibrous	15% Synthetic	85% Non-fibrous (Other)	None Detected	
291803843-0025		Homogeneous				
510-11-25-Mastic	Rubber Roofing Membrane	Yellow Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected	
291803843-0025A		Homogeneous				
510-12-26	Vent Pipe Penetration	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
291803843-0026		Homogeneous				
510-12-27	Vent Pipe Penetration	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
291803843-0027		Homogeneous				

Initial report from: 05/15/2018 10:14:32



View of the Front of the Building



HA-1: Spray-on Ceiling Texture



HA-2: 2'x 2' Cellulose Ceiling Tile



HA-3: Gypsum Board



HA-4: Joint Compound



HA-5: Cove Base Mastic

18-5162 Page 1 of 3



HA-6: Cove Base Mastic



HA-7: 1' x 1' Vinyl Floor Tile



HA-8: Mastic Associated with HA-7



HA-9: HVAC Duct Insulation Mastic



HA-10: Exterior Expansion Joint Caulk



HA-11: Rubber Roofing Membrane/Mastic

18-5162 Page 2 of 3



HA-12: Penetration Mastic

No Photo Available

HA-13: Mastic Associated with Shower Pans

18-5162 Page 3 of 3



Client:

Mr. Randy Alvar Project Manager CEMS Engineering 320-C Midland Parkway Summerville, SC 29485

Submitted Electronically: ralvar@CEMS-ae.com

Project:

Lead Base Paint Inspection BEQ HP510 Camp Lejeune, North Carolina

Dear Mr. Alvar:

Crystal Coast Environmental, Inc. (CCEI) was retained to conduct a lead base paint (LBP) inspection at the project identified above. The inspection consisted of visible and accessible interior and exterior surfaces coated with paint.

Background information on the Site and a summary of the inspection are provided below. CCEI's services are subject to the Terms and Conditions to the Limitations and Service Constraints in Attachment A. The results of the inspection are presented in the attachments to this report.

LEAD SURVEY

CCEI conducted a LBP inspection to identify building components that may be impacted during scheduled renovations and may have lead-containing surface coatings.

The LBP inspection was performed on May 4, 2018, by Mr. Robert Elbertson of CCEI. The inspection was conducted by visually assessing areas of concern that may have surface coatings that are suspected to contain lead. Suspected materials coated with LBP were analyzed for total lead content (reported in total percent by weight) by Flame Atomic Adsorption Spectrometry (AAS) in accordance with U.S. EPA Method 7420, SW 846-3050B/7000B. Strict Quality Control/Quality Assurance provisions were adhered to for analysis of all lead samples. from a wall, door frame, window sill, and baseboard. The results of the LBP inspection are presented in the attachments to this report as follows.

Crystal Coast Environmental, Inc. 10302 Bristow Center Dr.

Suite 115

Bristow, VA 20136 Tel: 910.938.7998 Fax: 910.938.3441 www.cceinc.biz

ENVIRONMENTAL

Date:

May 22, 2018

Contact:

Robert Elbertson

Phone:

910.330.7410

Email:

relbertson@cceinc.biz

Our ref: 18-5162



- Attachment A CCEI Limitations and Service Constraints
- Attachment B Laboratory Results
- Attachment C Sampling Locations
- Attachment D Photographic Log

FINDINGS

Based on the results of the investigation, the material identified does not contain LBP.

If analysis was conducted by a laboratory: 0.5% by weight or 5,000 parts per million (ppm).

The Occupational Safety and Health Administration (OSHA) Lead in Construction standard does not define lead paint based on content. Any detectable lead in paint makes it lead paint for purposes of complying with OSHA regulations to determine worker exposure.

CONCLUSIONS

Based upon the results of the inspection, the samples are reported as not containing detectable quantities of lead. The scope of this lead screening survey was limited to only assessing building components located areas or rooms identified by the client. If areas outside the scope of assessment for this survey may be disturbed, additional assessment may be required

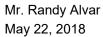
The remaining samples are reported as not containing detectable quantities of lead. The scope of this lead screening survey was limited to only assessing building components located areas or rooms identified by the client. If areas outside the scope of assessment for this survey may be disturbed, additional assessment may be required.

CLOSING

Should you have any questions regarding this report, or if CCEI can be of further assistance, please feel free to contact CCEI at (910) 938-7998.

Sincerely,

Crystal Coast Environmental, Inc.





Rober L Ellars

Robert Elbertson Operations Manager

Attachments

- A. CCEI Limitations and Service Constraints
- B. Laboratory Results
- C. Sampling Locations
- D. Photographic Log

Limitations and Service Constraints

The opinions, conclusions and recommendations presented in this report are limited to the information obtained during the performance of the specific scope of service identified in the report. To the extent that Crystal Coast Environmental, Inc. (CCEI) relied upon any information prepared by other parties not under direct contract to CCEI, no representation as to the accuracy or completeness of such information is made. This report is an instrument of professional service and the services described in the report were performed in accordance with generally accepted standards and level of skill and care ordinarily exercised by members of the profession working under similar conditions including comparable budgetary and schedule constraints. No warranty, guarantee or certification express or implied, is intended or given with respect to CCIE's services, opinions, conclusions or recommendations. This statement is in lieu of any other statement either expressed or implied.

CCEI's observations, the results of testing and CCEI's opinions, conclusions and recommendations apply solely to conditions existing at the specific times when and specific locations where CCEI's investigative work was performed. Observation and testing activities such as those conducted by CCEI are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site, building or area may vary from conditions at the specific locations where observations were made and where testing was performed by CCEI. Additionally, other building material hazards which were not identified by CCEI, may also be present in the indoor air, un-accessed areas and in walls, ceilings, cavities and floors. Therefore, the extent of CCEI's opinions, conclusions and recommendations are limited and 100% confidence in these opinions, conclusions and recommendations cannot reasonably be achieved. Nothing contained in this report shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards nor shall it be considered medical advice or consultation.

This report may document whether work conducted by CCEI or under CCEI's observation was done so in accordance with applicable regulatory standards. In the absence of standards such as is often the case for microbial assessment and abatement, this report may not be construed as providing clearance, approval, or authorization for use or re-occupancy of a given structure. Actual site conditions and quantities should be field verified and unless expressly stated.

This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for and for the particular purpose outlined in the report. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Analysis Report



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Crystal Coast Environmental (3425)

10302 Bristow Center Dr Address:

#115

Bristow, VA 20136

Attn:

Project: HP510 CLNC -Location: Camp Lejeune

Number: 18-5162 Order #: 259774

Matrix Paint Received 05/09/18

Analyzed 05/10/18 Reported 05/10/18

PO Number:

Sample ID Sample Date Cust. Sample ID Location Weight **Parameter** Method % / Wt. RL* Total µg Conc. 259774-001 510-Pb-01 Door/Door Frame 05/04/18 341 mg Lead EPA 7000B / 3050B $<10.0 \mu g$ <0.00294 % <29.4 mg/kg 29.3 mg/kg Duplicate sample failed due to the inhomongeneity of the sample. Sample results are not affected by the failure and are accurate.

259774-002 510-Pb-02 Interior Walls 05/04/18 301 mg

Lead EPA 7000B / 3050B 19.9 µg

Analyst: RW

259774-05/10/18 06:31 PM

Federal Lead Paint Statute

Location Clearance Unit < 0.50 Lead in paint by weight Lead in paint as PPM < 5000 mg/kg Reviewed By: Eric Broaddus

0.00663 %

Analyst

66.3 mg/kg

33.2 mg/kg



SCHNEIDER LABORATORIES GLOBAL, INC.

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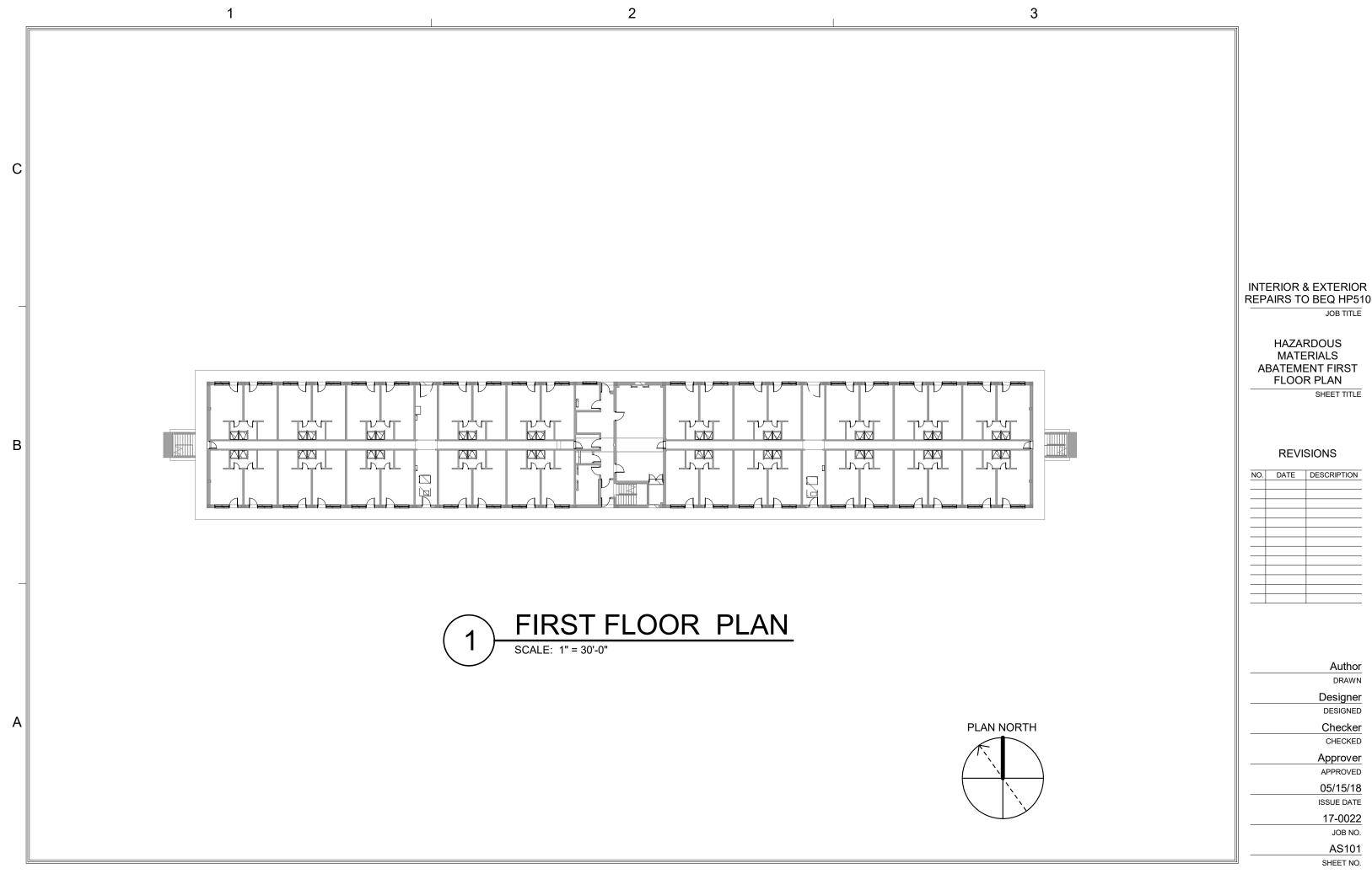


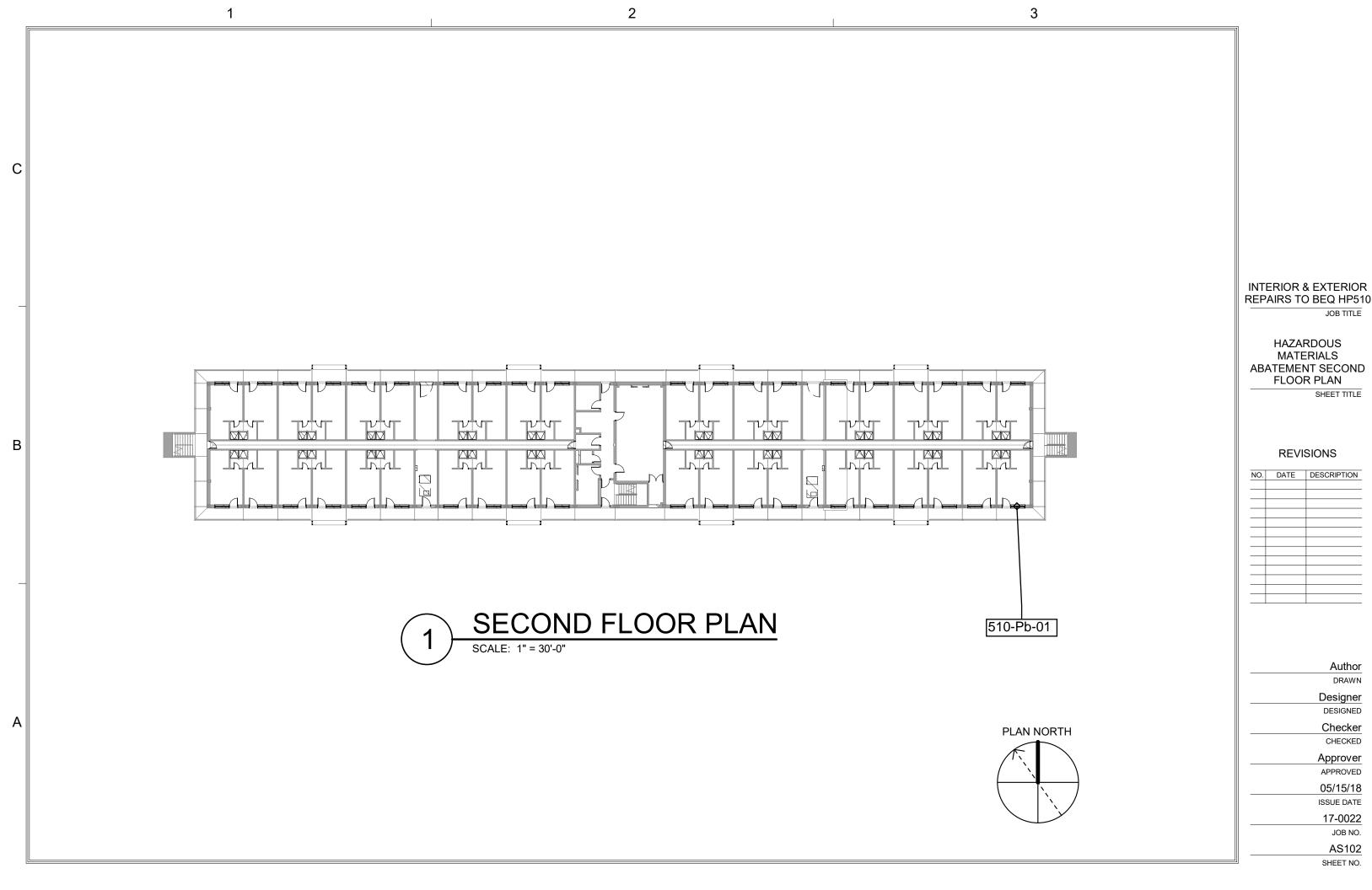
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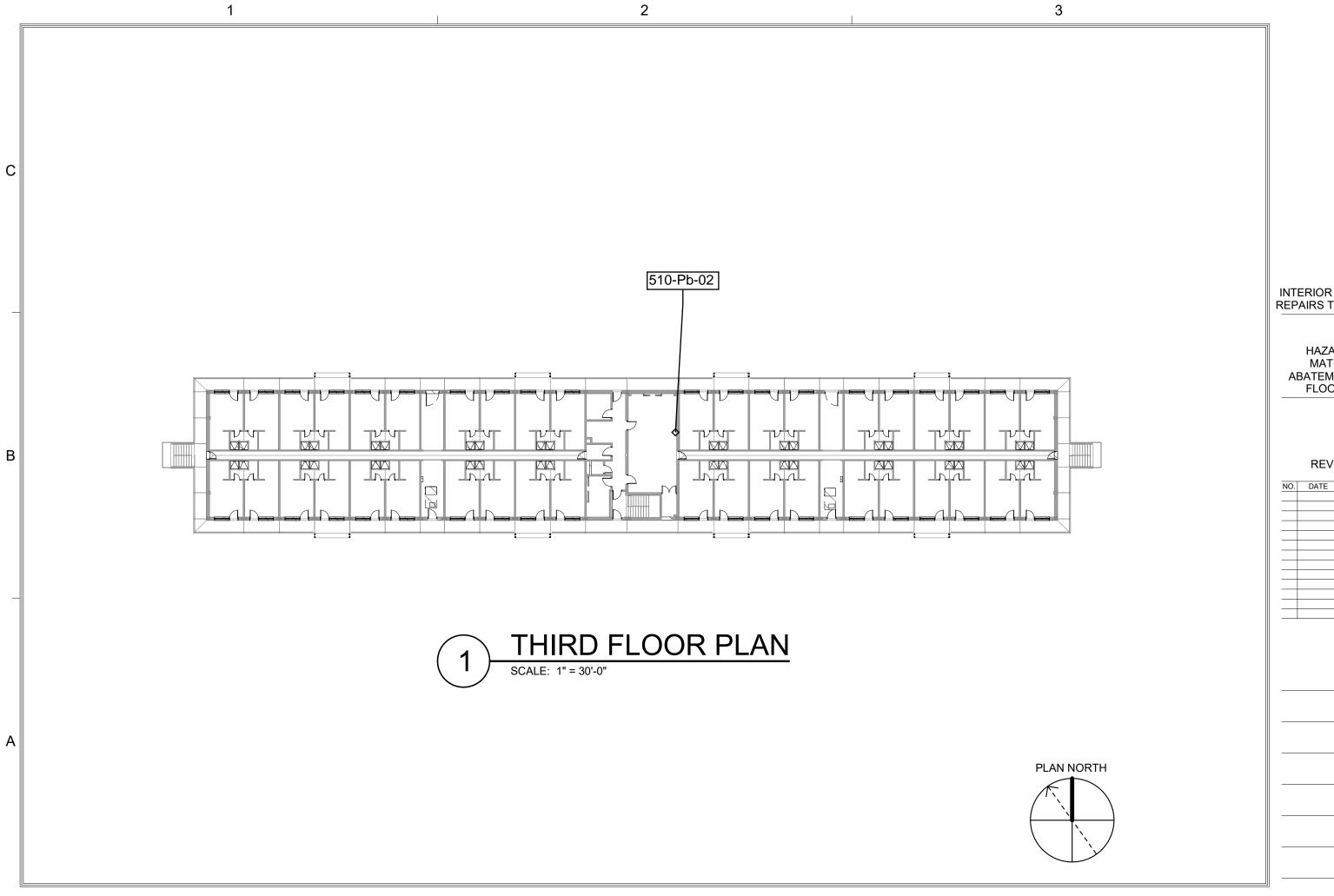
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INTERIOR & EXTERIOR REPAIRS TO BEQ HP510

JOB TITLE

HAZARDOUS MATERIALS ABATEMENT THIRD FLOOR PLAN

SHEET TITLE

REVISIONS

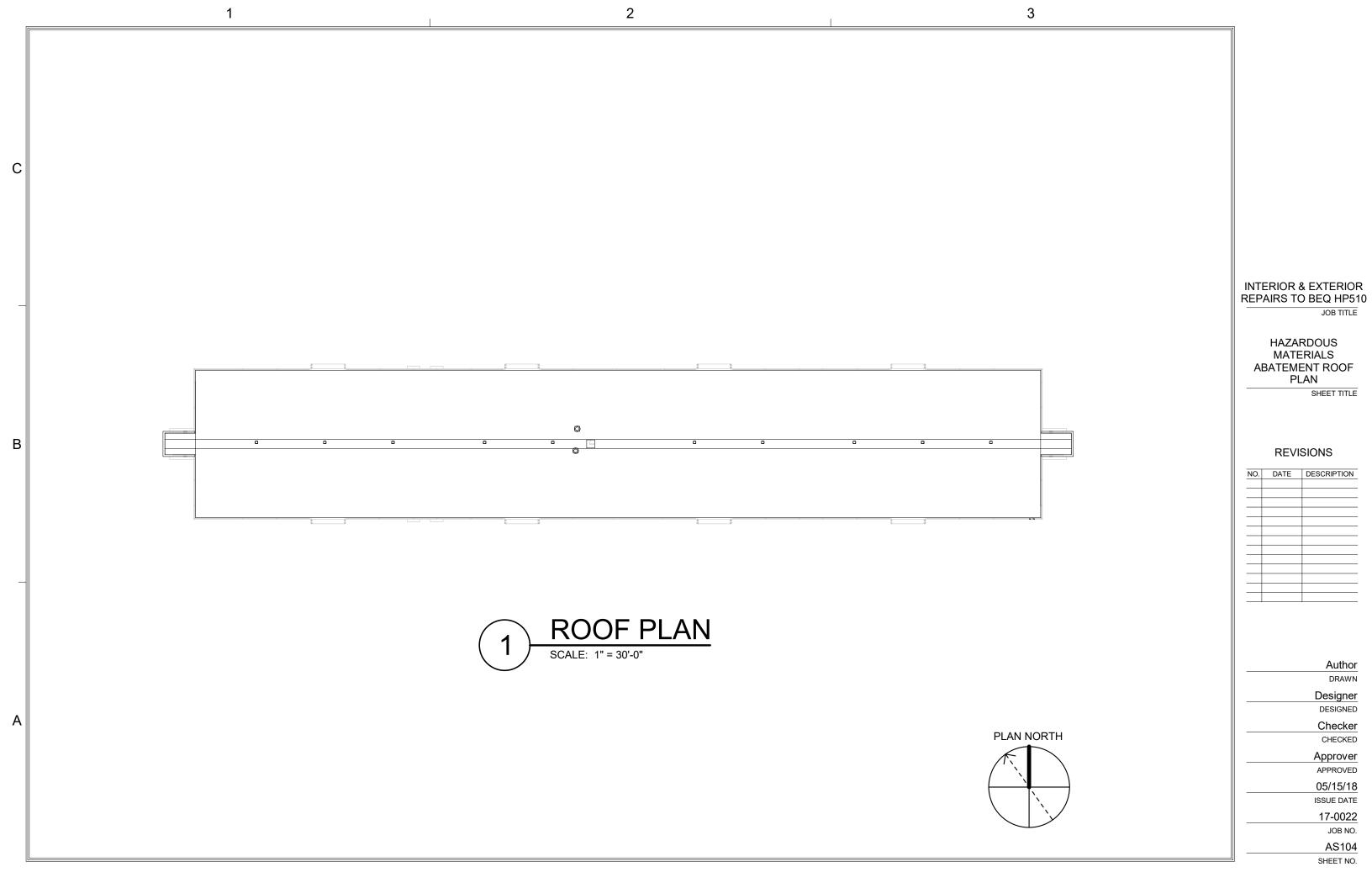
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Author
DRAWN
Designer
DESIGNED
Checker
CHECKED
Approver

APPROVED 05/15/18 ISSUE DATE

17-0022 JOB NO.

AS103 SHEET NO.





View of the Front of the Building



Pb-01: Door/Door Frame



Pb-02: Interior Walls

18-5162 Page 1 of 1