

Cardno ATC

Suite 301

Fax

290 Roberts Street

www.cardno.com

www.cardnoatc.com

East Hartford, CT 06108

Phone +1 860 282 9924 +1 860 282 9826

October 24, 2014

Mr. Mike Sanders State of Connecticut Department of Administrative Services Division of Construction Services 165 Capitol Avenue, Room 460 Hartford, CT 06106

Re: Asbestos Inspection

Duplex Garage

Seaside Regional Center Waterford, Connecticut Project MH-14-24

Building 64624

Cardno ATC Project 61.22573.0020 Task 20072

Dear Mr. Sanders:

Please find enclosed the Asbestos Inspection Report for the Duplex Garage at Seaside Regional Center located in Waterford, Connecticut.

Should you have any questions concerning this report, do not hesitate to contact me at 860 282-9924 ext. 1123.

Sincerely,

Cardno ATC

Edward P. Fennell Jr., P.E.

Division Manager for Cardno ATC

Direct Line +1 860 282 9924 x1123

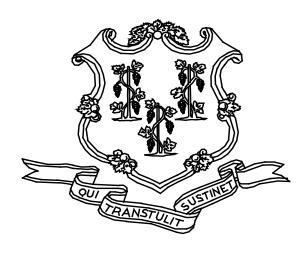
Email: edward.fennell@cardno.com

Encl:

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ASBESTOS INSPECTION REPORT

DUPLEX GARAGE SEASIDE REGIONAL CENTER WATERFORD, CONNECTICUT BUILDING 64624 PROJECT MH-14-24



STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES DIVISION OF CONSTRUCTION SERVICES

Prepared by:

CARDNO ATC 290 ROBERTS STREET - SUITE 301 EAST HARTFORD, CT 06108

CARDNO ATC PROJECT 61.22573.0020 TASK 20072

OCTOBER 24, 2014

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1.0 **INTRODUCTION**

Cardno ATC (ATC) of East Hartford, Connecticut was retained by the State of Connecticut, Department of Administrative Services, Division of Construction Services (CTDCS) to conduct a limited inspection to identify asbestos-containing materials (ACM) at the Duplex Garage, Seaside Regional Center, Waterford, Connecticut. The purpose of the investigation was to test suspect materials prior to renovation activities.

The inspection was conducted by Mr. Stanley Szelag and Mr. Willie L. Thompson III on October 10, 2014. Mr. Szelag and Mr. Thompson are State of Connecticut Department of Public Health (CTDPH) licensed asbestos inspectors(CTDPH license number 000493 and 000673 respectively). The survey was performed as a walk-through visual inspection, combined with the collection and analysis of bulk samples.

2.0 ASBESTOS-CONTAINING MATERIALS SURVEY

Materials which were considered suspect ACM included: stick-on floor tile, plaster ceiling (one coat), window glazing, and roofing material.

2.1 ASBESTOS BULK SAMPLE COLLECTION/ANALYSIS PROCEDURE

Building materials considered suspect ACM were inspected and assessed using the methods presented in the United States Environmental Protection Agency AHERA regulations (40 CFR Part 763) and NESHAP regulations (40 CFR Part 61).

ATC collected bulk samples of building materials utilizing a sampling strategy that correlated with 40 CFR 763.86 as follows:

- Surfacing materials. An accredited inspector shall collect, in a statistically random manner that is (a) representative of the homogeneous area, bulk samples from each homogeneous area of friable surfacing material that is not assumed to be ACM, and shall collect the samples as follows:
 - At least three bulk samples shall be collected from each homogeneous area that is 1,000 (1) ft² or less, except as provided in 40 CFR Part 763.87(c)(2).
 - At least five bulk samples shall be collected from each homogeneous area that is greater (2) than 1,000 ft² but less than or equal to 5,000 ft², except as provided in 40 CFR Part 763.87(c)(2).
 - (3) At least seven bulk samples shall be collected from each homogeneous area that is greater than 5,000 ft², except as provided in 40 CFR Part 763.87(c)(2).
- (b) Thermal system insulation.
 - (1) Except as provided in paragraphs (b)(2) through (4) of this section and 40 CFR Part 763.87(c), an accredited inspector shall collect, in a randomly distributed manner, at least three bulk samples from each homogeneous area of thermal system insulation that is not assumed to be ACM.
 - Collect at least one bulk sample from each homogeneous area of patched thermal system (2) insulation that is not assumed to be ACM if the patched section is less than 6 linear or square feet.

1

- (3) In a manner sufficient to determine whether the material is ACM or not ACM, collect bulk samples from each insulated mechanical system that is not assumed to be ACM where cement or plaster is used on fittings such as tees, elbows, or valves, except as provided under 40 CFR Part 763.87(c)(2).
- Bulk samples are not required to be collected from any homogeneous area where the accredited inspector has determined that the thermal system insulation is fiberglass, foam glass, rubber, or other non-ACM.
- (c) *Miscellaneous materials*. In a manner sufficient to determine whether material is ACM or not ACM, an accredited inspector shall collect bulk samples from each homogeneous area of friable or non-friable miscellaneous material that is not assumed to be ACM.

The bulk samples collected during the survey were analyzed by EMSL Analytical, Inc. (NVLAP Lab Code 101048-9) located in New York, New York. The bulk samples were analyzed by Polarized Light Microscopy (PLM) with dispersion staining via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s). Utilizing PLM, the microscopist is able to identify and distinguish between asbestos group minerals and other fibrous materials such as cellulose, mineral wool, fiberglass, or synthetic fibers. The quantities of each of these substances is estimated based on the procedures defined in the above-cited reference and are reported as a percentage.

The EPA recognizes the following as asbestos: Chrysotile, Crocidolite, Amosite, Tremolite, Actinolite, and Anthophyllite. To be classified as ACM, the material must be determined to contain greater than one percent (1%) asbestos. In order to consider a material to be non-ACM, all samples of a homogeneous type of material that are collected must be analyzed and all results must indicate the material to contain less than 1% asbestos by weight.

3.0 ASBESTOS-CONTAINING MATERIALS

The results of PLM laboratory analysis indicated that the following materials are asbestos-containing material (ACM). ACM are those materials that contain greater than 1% asbestos, and are as follows:

- 12"x12" Stick-On Floor Tile
- Window Glazing (White)
- Window Glazing (Gray)

The remaining materials which were sampled and tested were found to contain no detectable amounts of asbestos. Specifically, the following materials were determined to be non-ACM:

- Ceiling Plaster One-Coat (Gray)
- Black Tar Paper Roofing

Refer to Section 6.0, Bulk Sample Summary of Suspect Materials, for all suspect materials that were identified and sampled.

4.0 DISCUSSION AND RECOMMENDATIONS

EPA regulations require the removal of Regulated Asbestos-Containing Materials (RACM) prior to renovation or demolition activities. RACM is defined as (a) Friable ACM, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation activities. The CTDPH defines "asbestos abatement" as removal, encapsulation, enclosure, renovation, repair, demolition, or other disturbance of ACM but does not include activities which are related to (A) the removal or repair of asbestos cement pipe and are performed by employees of a water company as defined in section 25-32a, or (B) the removal of non-friable ACM found exterior to a building or structure other than material defined as RACM in 40 CFR 61, the National Emission Standards for Hazardous Air Pollutants (NESHAP). Based upon these definitions, ACM identified in the building requires removal prior to renovation, demolition, or disturbance. The State of Connecticut, Department of Energy and Environmental Protection (CTDEEP) regulations require the proper disposal of all ACM, regardless of categorization.

5.0 LIMITATIONS

As with all such assessments, the results of the sampling represent conditions found on the date of the survey and may not represent conditions found at other times. Additionally, this assessment was limited with respect to the specific parameters indicated above and should not be construed to be a comprehensive evaluation or a definitive representation of conditions within the facility. The information presented in this report is intended to be used as a guide to evaluate the need for further investigation or the need for modifications to the processes or procedures surveyed.

6.0	BULK SAMPLE SUMMARY OF SUSPECT MATERIALS

TABLE 6-1 BULK SAMPLE SUMMARY OF SUSPECT MATERIALS SEASIDE REGIONAL CENTER DUPLEX GARAGE

Sample Number	Sample Location	Material	% Asbestos	Asbestos Type
101014-DG-1A	Attic Loft	12''x12'' Stick-On Floor Tile	2	Chrysotile
101014-DG-1B	Attic Loft	12''x12'' Stick-On Floor Tile	2	Chrysotile
101014-DG-2A	Garage Ceiling	Plaster One-Coat, Gray	ND	
101014-DG-2B	Garage Ceiling	Plaster One-Coat, Gray	ND	
101014-DG-3A	Interior Window	Window Glazing, White	2	Chrysotile
101014-DG-3B	Interior Window	Window Glazing, White	2	Chrysotile
101014-DG-4A	Exterior Window	Window Glazing, Gray	3	Chrysotile
101014-DG-4B	Exterior Window	Window Glazing, Gray	2	Chrysotile
101014-DG-5A	Roof	Tar Paper, Black	ND	
101014-DG-5B	Roof	Tar Paper, Black	ND	

ND = None Detected

7.0	BULK SAMPLE RESULTS/CHAIN-OF-CUSTODY FORMS



EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018 Phone/Fax: (212) 290-0051 / (212) 290-0058 http://www.EMSL.com/manhattanlab@emsl.com EMSL Order ID: Customer ID: Customer PO:

031440887 ATCE54 14-061-0001A

Project ID:

Attn: Ed Fennell Phone: (860) 282-9924 Cardno ATC Fax: (860) 282-9826 290 Roberts Street Collected: 10/10/2014 Suite 301 Received: 10/23/2014 East Hartford, CT 06108 Analyzed: 10/24/2014

61.22573.0020T20072/ CT DCS/ DUPLEX GARAGE/ SEASIDE HOSP COMPLEX 36 SHORE RD WATER FORT CT Proj:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via **Polarized Light Microscopy**

031440887-0001 Lab Sample ID: Client Sample ID: 101014-DG-1A Sample Description: ATTIC LOFT/12"X12" STICK ON FLOOR TILE Analyzed Non-Asbestos **TEST** Date Color Fibrous Non-Fibrous Asbestos Comment PLM 10/24/2014 Tan 0% 98% 2% Chrysotile 031440887-0002 101014-DG-1B Lab Sample ID: Client Sample ID: Sample Description: ATTIC LOFT/12"X12" STICK ON FLOOR TILE Non-Asbestos Analyzed TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 10/24/2014 Tan 0% 98% 2% Chrysotile 031440887-0003 101014-DG-2A Lab Sample ID: Client Sample ID: Sample Description: GARAGE CEILING/PLASTER ONE COAT GRAY Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 10/24/2014 Gray 0% 100% None Detected Lab Sample ID: 031440887-0004 101014-DG-2B Client Sample ID: Sample Description: GARAGE CEILING/PLASTER ONE COAT GRAY Analyzed Non-Ashestos **TEST** Date Color Fibrous Non-Fibrous Asbestos Comment PLM 10/24/2014 Tan 0% 100% None Detected Client Sample ID: 101014-DG-3A Lab Sample ID: 031440887-0005 Sample Description: INTERIOR WINDOW/WINDOW GLAZING WHT Analyzed Non-Asbestos **TEST** Date Color Fibrous Non-Fibrous Asbestos Comment PLM 10/24/2014 Gray 0% 98% 2% Chrysotile Client Sample ID: 101014-DG-3B Lab Sample ID: 031440887-0006 Sample Description: INTERIOR WINDOW/WINDOW GLAZING WHT Analyzed Non-Asbestos **TEST** Date Fibrous Comment Color Non-Fibrous Asbestos PLM 10/24/2014 Gray/White 0% 98% 2% Chrysotile Lab Sample ID: 031440887-0007 Client Sample ID: 101014-DG-4A Sample Description: EXTER WINDOW/WINDOW GLAIZING GRAY Analyzed Non-Asbestos **TEST** Date Color Fibrous Non-Fibrous **Asbestos** Comment PLM 10/24/2014 Gray 0% 97% 3% Chrysotile



PLM

EMSL Analytical, Inc.

10/24/2014

Black

307 West 38th Street New York, NY 10018 Phone/Fax: (212) 290-0051 / (212) 290-0058 http://www.EMSL.com / manhattanlab@emsl.com EMSL Order ID: Customer ID: Customer PO:

031440887 ATCE54 14-061-0001A

Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via **Polarized Light Microscopy**

Client Sample ID:	101014-DG-4B					Lab Sample ID:	031440887-0008
Sample Description:	EXTER WINDOW/WINDOW	GLAIZING GRAY	•				
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	10/24/2014	Gray	0%	98%	2% Chrysotile		
Client Sample ID:	101014-DG-5A					Lab Sample ID:	031440887-0009
Sample Description:	ROOF/TAR PAPER BLK						
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	
PLM	10/24/2014	Black	35%	65%	None Detected		
Client Sample ID:	101014-DG-5B					Lab Sample ID:	031440887-0010
Sample Description:	ROOF/TAR PAPER BLK						
	Analyzed		Non-	-Asbestos			
TEST	Date	Color	Fibrous	Non-Fibrous	Asbestos	Comment	

25%

75%

None Detected



EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018 Phone/Fax: (212) 290-0051 / (212) 290-0058 http://www.EMSL.com / manhattanlab@emsl.com EMSL Order ID: Customer ID: Customer PO:

031440887 ATCE54 14-061-0001A

Project ID:

Attn: Ed Fennell Cardno ATC

290 Roberts Street Suite 301 East Hartford, CT

06108

Phone: (860) 282-9924 Fax: (860) 282-9826 Collected:

10/10/2014 10/23/2014 Received:

Analyzed: 10/24/2014

61.22573.0020T20072/ CT DCS/ DUPLEX GARAGE/ SEASIDE HOSP COMPLEX 36 SHORE RD WATER FORT CT Proj:

The samples in this report were submitted for asbestos bulk analysis. The reference number for these samples is the Order ID above. Please use this reference number when calling about these samples.

Sample Receipt Date: 10/23/2014 Analysis Completed Date: 10/24/2014

Sample Receipt Time: 11:49 am Analysis Completed Time: 8:41 am

Analyst(s):

my Mut

Reviewed and approved by:

James Hall, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. EMSL bears no responsibility for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. PLM alone is not consistently reliable in detecting asbestos in floor coverings and similar NOBs

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from: 10/24/201412:51:26

Cardno

Shaping the Future

BULK SAMPLE LOG

Page Lof L

Fax: (860) 282-9826 290 Roberts Street, Suite 301 East Hartford, CT 06108 (860) 282-9924 Fax:

OrderID: 031440887

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Survey Date: 10-10-14	1 11-0	Project	Project Manager: ED FS////E//	O FEAL	1/3/1	6	0	
Signature: 5 Sale	194	Rednes	Requested Completion Date:	Date:				
Lab Name: SMS C	m_{SC} Requested turnaround time (circle) 3 I	3 HR 6 HR	24 HR 48 HR	No. 6	No. Samples Collected	01 bei		
Building: DUPLEY GARAGE	Address:	5EAS1DE	-	378405	HOSP COMULE/368 HORE	RE RD	WATSD FORDCE	Mac
Location	Material Description	Type S TSI MISC	Estimated Quantity	Friable Y/N	Condition (SD D ND)			er
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Disturbance Factors: Notes Damage Factors:

Physical (sig dmg-dmg-no Water (extensive-moderate-slight-none) dmg)

Proximity (<1ft-1-6ft->6ft) Accessibility (within reach-barely Accessibility (within reach-barely reachable-not reachable)

Air conduits (air plenum - air shaft - elevator shaft - duct)

Vibration (gym-music rm-auditorium-mechanical rm-elevator-other) Air movement (high-moderate-low) Received By/Date:

Received By/Date:

Deterioration (heavy-moderate-light-none)

Friability (yes-no; hard-mod-soft surface)

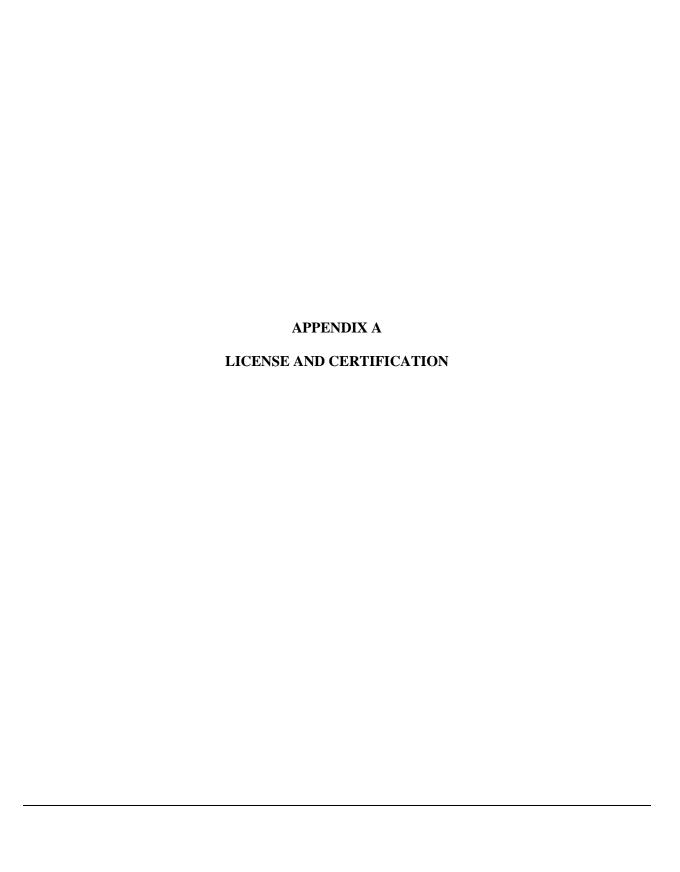
Barriers (perm airtight-enclosed-encapsulated)

Texture (rough-pitted-moderate-smooth)

10/23/14 11:49 AM Eshord

S:\BidgSci\Admin\Templates and Forms\Asbestos\Asbestos Bulk Sample Form.doc

Relinquished By/Date: Relinquished By/Date:



**PRSRT T8 0 1664 06108 290 ROBERTS ST STE 301 ATC ASSOCIATES EAST HARTFORD CT 06108-3656 STANLEY SZELAG 0002403

for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to Attached you will find your validated license/certification Dear Licensed/Certified Professional, write or call:

Department of Public Health

(860) 509-7603

http://www.dph.state.ct.us

P.O. Box 340308

Hartford, CT 06134-0308 M.S.#12MQA

Sincerely,

JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS

1. Detach and sign each of the cards on this form. 2. Display the large card in a prominent place in your

3. The wallet card is for you to earry on your person. If you do not while to earry

to retain employment or privileges. The employer's card is to be persented to the employer and kept by them as a part of your personal life. Only one cupy of this card can be supplied to you. 4. The employer's copy is for persons who must demonstrate current licensure/certification in order

01/31/15 ASBESTOS CONSULTANT-PROJECT MONITOR STATE OF CONNECTICUT
DELATEMENT OF FUEL HEALTH STANLEY SZELAG

LICENSENO. CUR

000445 COT

PROFESSION COT EMPLOYERS, COPY NAME

WALLET CARD
STATE OF CONNECTICUT
DEFAITMENT OF POELIC BEALTH WALLETICARD

STANLEY SZELAG CORDENT FIROUGH 0000445 001/31/15 NAME 03-697204 VALIDATION NO.

ASBESTOS CONSULTANT-PROJECT MONITOR

11CENSE NO. 000445 000445 current through THE INDIVIDUAL NAMED BELOW IS LICENSED

BUTHIS DEPARTMENTASA

ASBESTOS: CONSULTANT PROJECT MONITOR 03-697204 VALIDATION NO. STATE OF CONNECTICUT

OPPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTIES OF CONNECTICUT THE INDIVIDUAL NAMED BELOW IS LICENSED BY THIS DEPARTMENT AS A STANLEY SZELAG S. STANIEY'S

the wallet card, place it in a secure place.

VALIDATION NO. 03-697204

CERTIFICATE OF ACHIEVEMENT

This certifies that

Stanley Szelag

Asbestos Site Inspector Refresher Training Asbestos Accreditation Under TSCA Title II has successfully completed the 40 CFR Part 763

conducted by

West Springfield, MA 01089 (413) 781-0070 73 William Franks Drive Cardno ATC

Gregory D. Morach

April 17, 2014
Date of Course Principal Instructor

April 17, 2015 Expiration Date

Dregony D. Morsch

Regional Manager

SIAR-4859 Certificate Number

April 17, 2014

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSPECTOR

WILLIE L. THOMPSON

CERTIFICATE NO. 000673

.;.

CURRENT THROUGH 08/31/16 VALIDATION NO. 03-927604

03-927604

INSTRUCTIONS:

- Detach and sign each of the cards on this form
 Display the large card in a prominent place in your office or place of business.
 The wallet card is for you to carry on your person. If you do not wish to carry the wallet
 - card, place it in a secure place.
- 4. The emptoyer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges, The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH WALLET CARD

VALIDATION NO.

WILLIE L. THOMPSON
CERTIFICATENO CURRENT THROUGH
000673 08/31/16

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

CERTIFICATE OF ACHIEVEMENT

This certifies that

Willie L. Thompson, III

Asbestos Site Inspector Refresher Training Asbestos Accreditation Under TSCA Title II has successfully completed the 40 CFR Part 763

conducted by

West Springfield, MA 01089 (413) 781-0070 73 William Franks Drive Cardno ATC

Principal Instructor: Edward Kolodziej

January 23, 2014
Date of Course

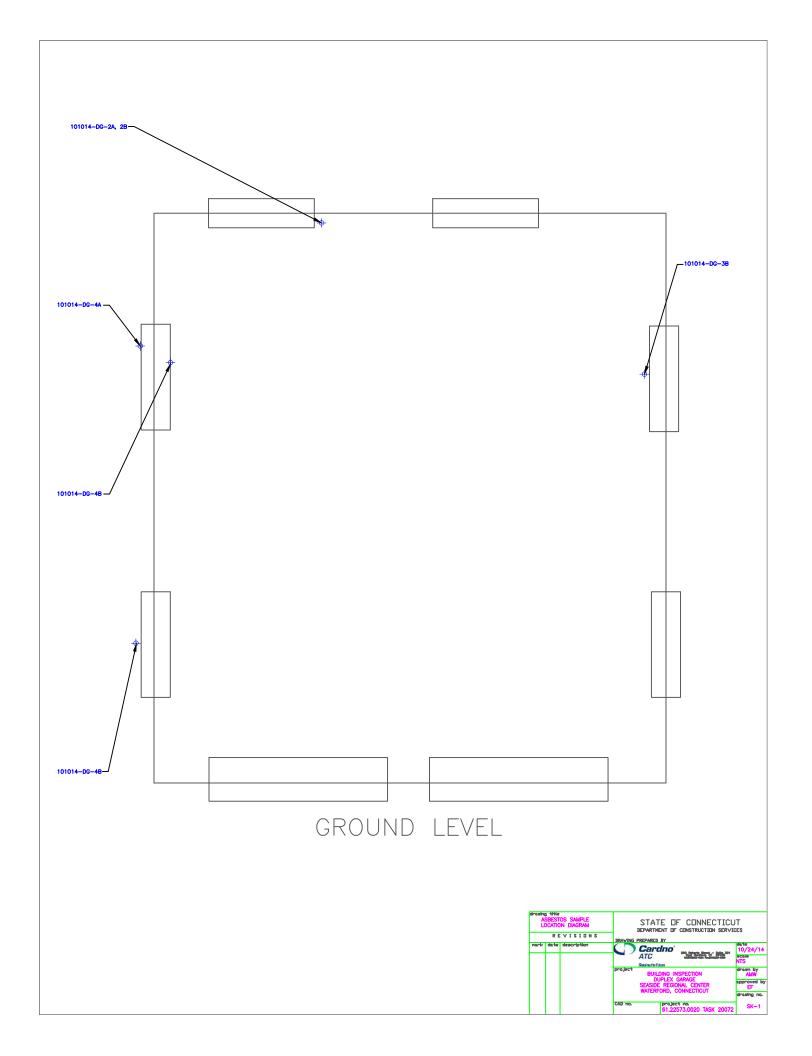
January 23, 2015 Expiration Date

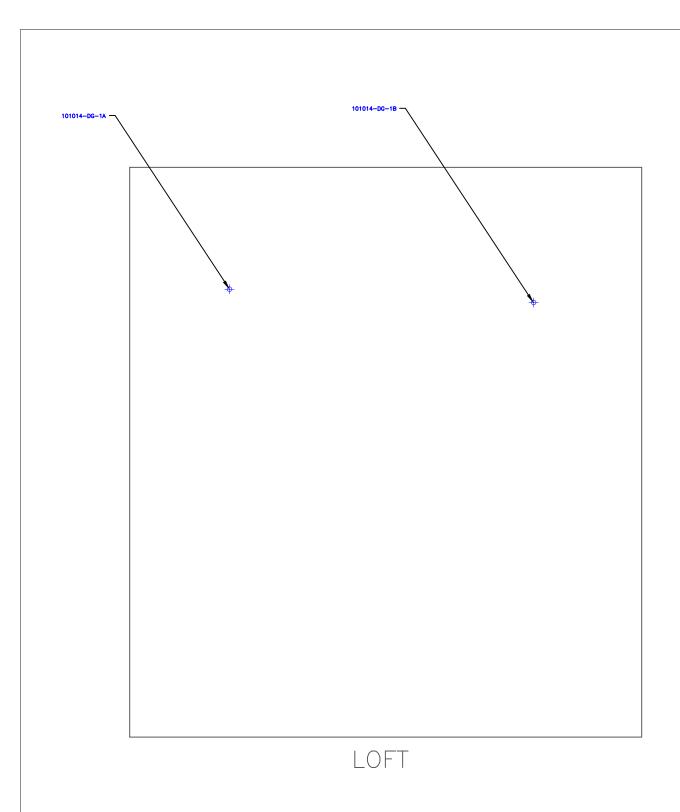
Regional Manager: Gregory Morsch SIAR-4760 Certificate Number

Dregon D. March

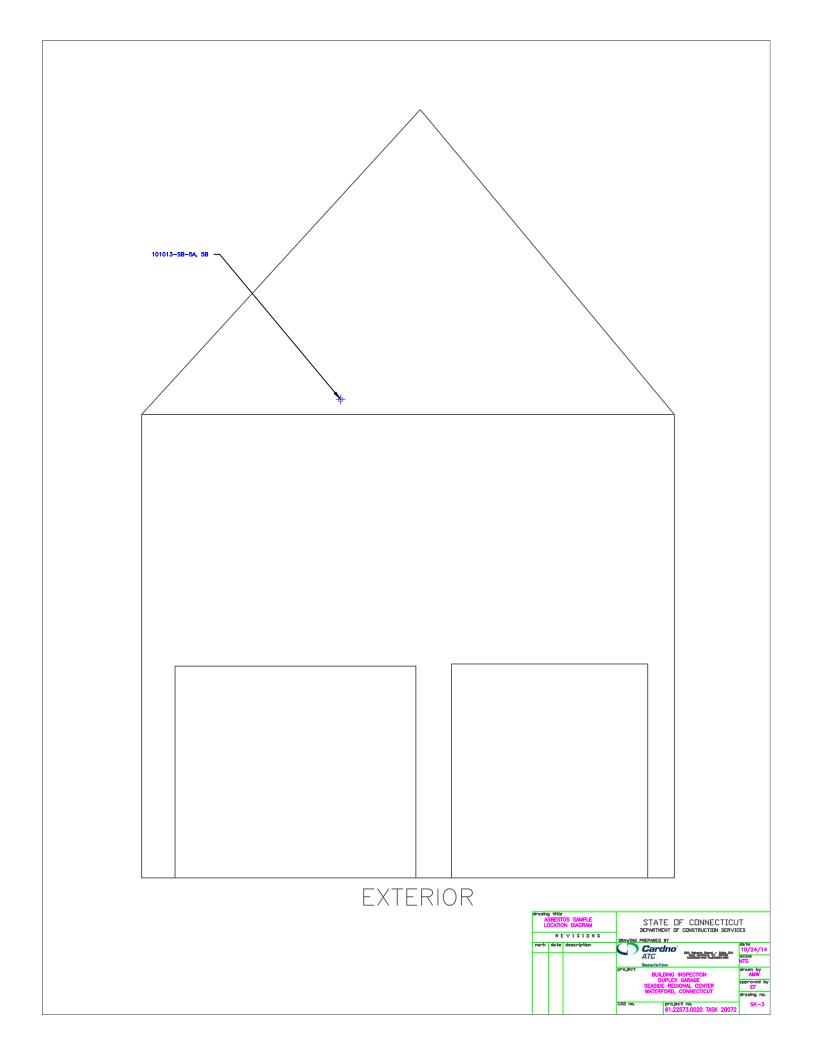
January 23, 2014 Examination Date

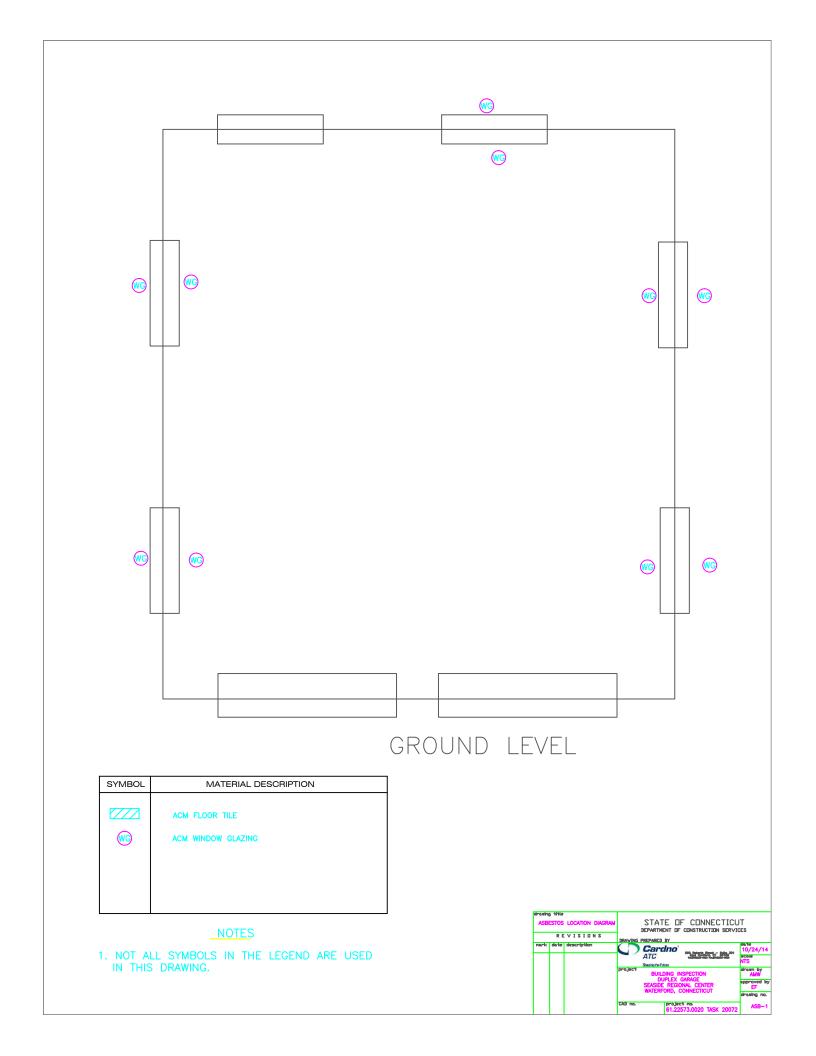


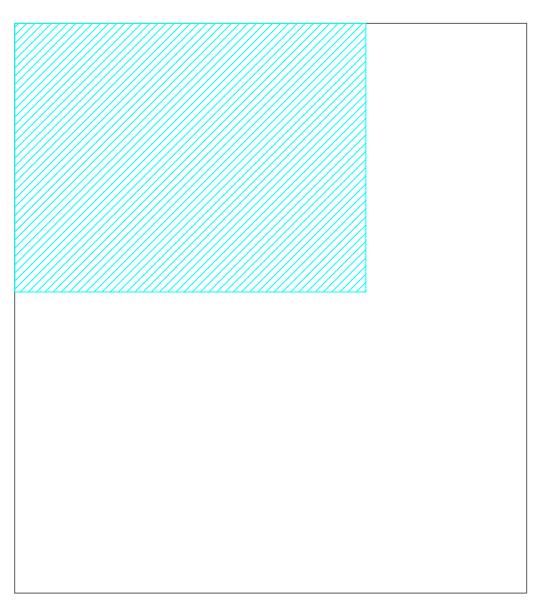










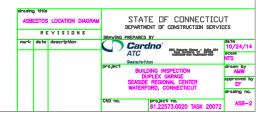


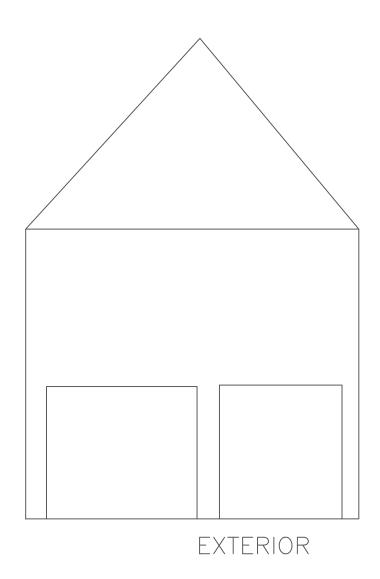
LOFT

SYMBOL	MATERIAL DESCRIPTION
WG WG	ACM FLOOR TILE ACM WINDOW GLAZING
	Non Milder Scanie

<u>NOTES</u>

1. NOT ALL SYMBOLS IN THE LEGEND ARE USED IN THIS DRAWING.





SYMBOL	MATERIAL DESCRIPTION
W3	ACM FLOOR TILE ACM WINDOW GLAZING

NOTES

1. NOT ALL SYMBOLS IN THE LEGEND ARE USED IN THIS DRAWING.

