

46555 Humboldt Dr. Ste. 100 Novi, MI 48377 (248) 669-5140 | oneatlas.com



Client Name:	City of Kalamazoo
Project Name:	Commercial Building Asbestos Survey
Project Number:	188BS23505
Project Site Address (Subject Property):	1216 Clinton Avenue, Kalamazoo, MI 49001
Date of Site Visit:	July 28, 2023
Asbestos Inspection Performed by:	Andrew DeLodder (A48677)
Asbestos Inspector's Signature:	Andrew De Sodder
Areas Not Accessible:	Garage Interior
Number of Floors:	Garage Only
Asbestos Present (Yes/No/Other):	Yes.

On the date indicated above, State of Michigan Asbestos Inspector, Andrew DeLodder (A48677) from Atlas Technical Consultants, conducted a pre-demolition asbestos and other regulated materials inspection of the subject unoccupied commercial property.

Table I identifies materials that were found to contain asbestos in concentrations greater than 1% and therefore are regulated under the rules of asbestos in the State of Michigan.

TABLE I
Asbestos-Containing Materials

ID#	MATERIAL	LOCATION	QUANTITY	RESULT	NESHAP CATEGORY
None Contain Asbestos					

The purpose of this inspection was to task an accredited asbestos inspector to complete a pre-demolition asbestos and hazardous material survey of the subject site and provide recommendation options for removal and disposal of identified hazardous/regulated materials prior to demolition of the building(s). The asbestos inspection consisted of the following three basic procedures: conducting a visual inspection of the structure, Identifying homogeneous areas (HAs) of suspect surfacing, thermal system insulation, and miscellaneous materials; and sampling identified friable and non-friable suspect materials.

Bulk samples of suspect ACMs were collected and placed into individual containers for transport under Chain of Custody (COC) to a National Voluntary Lab Accreditation Program (NVLAP)-accredited laboratory for analysis. Materials typically known as non-asbestos items (i.e. fibrous glass, foam rubber, wood, etc.) were not sampled.

Laboratory Reports and associated COC's are provided in **Attachment A**. Photographs of the site are included in **Attachment B**. The following sections summarize Atlas' findings.

Table II below identifies the suspect asbestos-containing materials identified during the survey, their locations, approximate quantity, type and percentage of asbestos.

TABLE II
Suspect Asbestos-Containing Materials

HA/ID#	MATERIAL	LOCATION	RESULT
1-RM-A,B,C	Roofing Material- Asphalt Shingle, Greenish-Blue Debris in Garage Interior	FS-1	ND
2-VP-A,B,C	Vapor Paper- Brown, on Interior Garage Walls	FS-1	ND
3-VP-A,B,C	Vapor Paper- Black, Over West Interior Wall	FS-1	ND
4-EC-A,B,C	Exterior Caulk- White, Around Door/ Window Frames	EA-1,2,3,4	ND
5-WG-A,B,C	Window Glaze- Wood Multi-Pane Windows	EA-1, 2	PC 0.75% Chrysotile
6-CC-A,B,C	Concrete Chip- Poured Garage Foundation	FS-1	ND
7-WB-A,B,C	Wallboard- Leaning on the North Exterior Wall	EA-1	ND

ND = No asbestos detected, NA = Not applicable, UNQ = Unquantified; PC = Point Count

No other suspect ACMs were observed on the site. Although not anticipated based on surface observations, underground structures that could contain ACM may be present and should be managed accordingly if encountered during site redevelopment.

Asbestos is a hazardous substance. Its condition, handling and disposal are regulated by federal, state, and local agencies. ACMs generally do not pose a health threat unless the asbestos fibers are disturbed, become airborne and are inhaled.

Contractors working in an area where asbestos is present must be informed of the type and location of ACMs. Abatement of ACMs, including non-friable ACMs, must be performed by a Michigan licensed, certified and registered

asbestos abatement contractor in accordance with state and federal Occupational Safety and Health Administration (OSHA) and local air quality management regulations.

Table III below lists Other Regulated Materials/Universal Wastes identified during the survey.

TABLE III
Other Regulated Materials/Universal Wastes

MATERIAL	LOCATION	APPROXIMATE QUANTITY
Misc. Items (Glue, Solvents, Cleaners, etc.)	FS-1	5
Paint Cans	FS-1	3
Tires	FS-1	2

Table IV below lists the functional spaces identified during the survey.

Table IV Functional Space/ Exterior Area Designations

DESCRIPTION	DESIGNATION
Garage	FS-1
Exterior Area	EA 1,2,3,4

#### **RECOMMENDATIONS:**

Except for the following items listed below, Section 61.145(c) of the Asbestos NESHAP requires that each owner or operator of a demolition or demolition activity involving RACM remove all such material from a facility being demolished or renovated before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal.

ACM need not be removed before demolition if it:

- (i) Is a Category I non-friable ACM that is not friable.
- (ii) Is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition.
- (iii) Was not accessible for testing and therefore was not discovered until after demolition began and, as a result of the demolition, cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be treated as asbestos-containing waste material and kept adequately wet at all times until disposed of.
- (iv) Is a Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

Demolition with Roofing Materials in place is covered under the NESHAP regulations (40 CFR Part 61 Subpart M).

Roofing materials that were not tested during this inspection should be assumed to be Category I asbestos-containing roofing materials.

Since demolition activities do not include sanding, grinding, cutting, or abrading, Category I asbestos-containing roofing materials not in poor condition and not friable are not considered RACM, and are allowed to remain in place

during demolition.

If the asbestos-containing roofing material is not in poor condition and is not friable, it may be disposed of in a landfill which accepts ordinary demolition waste.

The asbestos-containing roofing material may not be ground up for recycling into other products.

\*If joint compound within the drywall system is identified as positive, a composite sample was analyzed per NESHAP. If the drywall system as a composite sample is less than 1% asbestos, the material is not considered RACM per NESHAP. However, OSHA requirements regarding materials containing less than 1% asbestos still apply, and contractors performing work should ensure they comply with the requirements if the material is not removed prior to demolition.

In addition, contractors should ensure they follow all OSHA regulations pertaining to demolition / demolition of Category I Asbestos-containing materials. Category I or II non-friable ACM that is not subject to 61.150(a)(3) would still have to be disposed of in a landfill that accepts building debris, in a landfill that operates in accordance with 61.154, or at a facility that operates in accordance with 61.155.

#### Prior to demolition, the following is recommended:

An asbestos abatement company, licensed in the State of Michigan should remove the materials identified as asbestos containing in Table I in accordance with all applicable Local, State, and Federal Requirements prior to demolition.

Other Regulated Materials/Universal Wastes, identified in Table III, must be transported and disposed in accordance with all applicable Local, State, and Federal Requirements prior to demolition.

#### **LIMITATIONS:**

The results, findings, conclusions, and recommendations expressed in the report are based only on conditions that were noted during Atlas' inspection of the vacant above-referenced property located in Kalamazoo, Michigan.

Any conditions or materials that could not be visually identified through limited destructive sampling were not inspected and may differ from those conditions or materials noted. The user of this report should keep in mind that conditions may change with time and observations made by Atlas at the time of the site reconnaissance may not be consistent with future observations made by others.

Additional materials may be encountered during the demolition process and may require further sampling to determine disposal criteria.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating asbestos building materials and Other Regulated Materials/Universal Wastes to be removed prior to demolition activities.

Under no circumstances is the report to be utilized as a bidding document or as a project specification document. Contractors bidding the demolition of this site should field-verify project information.

Atlas appreciates the opportunity to be of service to the City of Kalamazoo on this project. In the meantime, if you have questions regarding the information in this report or if we can be of further assistance do not hesitate to contact our office at (248) 669-5140.

# ATTACHMENT A LABORATORY REPORTS AND CHAIN OF CUSTODY

37575 W Huron River Drive Romulus, Michigan 48174 (734) 955-6600

Fax: (734) 955-6604

To: Atlas - Novi

46555 Humboldt Dr. Suite 100 Novi, Michigan 48377 **ETL Job**: 260133 **Client Project**: 188BS23505

Attention: Robert Smith

Project Location: 1216 Clinton Ave, Kalamazoo, MI 49001

City of Kalamazoo ACM Survey

Client Sample Number	Sample Type	Completed
1-RM-A	Asbestos	08/04/2023
1-RM-B	Asbestos	08/04/2023
1-RM-C	Asbestos	08/04/2023
2-VP-A	Asbestos	08/04/2023
2-VP-B	Asbestos	08/04/2023
2-VP-C	Asbestos	08/04/2023
3-VP-A	Asbestos	08/04/2023
3-VP-B	Asbestos	08/04/2023
3-VP-C	Asbestos	08/04/2023
4-EC-A	Asbestos	08/04/2023
4-EC-B	Asbestos	08/04/2023
4-EC-C	Asbestos	08/04/2023
5-WG-A	Asbestos	08/04/2023
5-WG-B	Asbestos	08/04/2023
5-WG-C	Asbestos	08/04/2023
6-CC-A	Asbestos	08/04/2023
	1-RM-A 1-RM-B 1-RM-C 2-VP-A 2-VP-B 2-VP-C 3-VP-A 3-VP-B 3-VP-C 4-EC-A 4-EC-B 4-EC-C 5-WG-A 5-WG-B	1-RM-A Asbestos  1-RM-B Asbestos  1-RM-C Asbestos  2-VP-A Asbestos  2-VP-B Asbestos  2-VP-C Asbestos  3-VP-A Asbestos  3-VP-B Asbestos  4-VP-C Asbestos  4-EC-A Asbestos  4-EC-B Asbestos  4-EC-C Asbestos  5-WG-A Asbestos  5-WG-C Asbestos  5-WG-C Asbestos

_	Lab Sample Number	Client Sample Number	Sample Type	Completed
	1564853	6-CC-B	Asbestos	08/04/2023
	1564854	6-CC-C	Asbestos	08/04/2023
	1564855	7-WB-A	Asbestos	08/04/2023
	1564856	7-WB-B	Asbestos	08/04/2023
	1564857	7-WB-C	Asbestos	08/04/2023

Reviewed by:

Jessica Diluth

Jessica Dilworth

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Summa	ıry

Method	Sample	Layer	Mastic
PLM	24		
Point Count	1		



# **Certificate of Analysis**



### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

**ETL Job**: 260133

46555 Humboldt Dr. Suite 100

Client Project: 188BS23505

Novi, Michigan 48377

**Date Collected**: 07/28/2023

Location: 1216 Clinton Ave, Kalamazoo, MI 49001

**Date Received:** 08/02/2023

City of Kalamazoo ACM Survey

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1564837 1-RM-A Layer-1 Analyst: Date Analyzed :	Roofing Material - Asphalt Shingle Rachel Gumpper 08/04/2023	Green/White Non-Fibrous Homogenous	PLM 25% Cellulose	PLM 75% Other	PLM None Detected
1564837 1-RM-A Layer-2 Analyst: Date Analyzed :	Shingle Rachel Gumpper 08/04/2023	Green Non-Fibrous Homogenous	PLM 35% Cellulose	PLM 65% Other	PLM None Detected
1564838 1-RM-B Layer-1 Analyst: Date Analyzed :	Roofing Material - Asphalt Shingle Rachel Gumpper 08/04/2023	Green/White Non-Fibrous Homogenous	PLM 25% Cellulose	PLM 75% Other	PLM None Detected
1564838 1-RM-B Layer-2 Analyst: Date Analyzed :	Shingle Rachel Gumpper 08/04/2023	Green Non-Fibrous Homogenous	PLM 35% Cellulose	PLM 65% Other	PLM None Detected
1564839 1-RM-C Layer-1 Analyst: Date Analyzed :	Roofing Material - Asphalt Shingle Rachel Gumpper 08/04/2023	Green/White Non-Fibrous Homogenous	PLM 25% Cellulose	PLM 75% Other	PLM None Detected
1564839 1-RM-C Layer-2 Analyst: Date Analyzed :	Shingle Rachel Gumpper 08/04/2023	Green Non-Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected



Date Analyzed: 08/04/2023

# **Certificate of Analysis**



### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: 1216 Clinton Ave, Kalamazoo, MI 49001

City of Kalamazoo ACM Survey

ETL Job: 260133

Client Project: 188BS23505

**Date Collected**: 07/28/2023 **Date Received**: 08/02/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1564840 2-VP-A	Vapor Paper	Brown Fibrous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	Rachel Gumpper 08/04/2023	Homogenous			
1564841 2-VP-B Layer-1 Analyst: Date Analyzed :	Vapor Paper Rachel Gumpper 08/04/2023	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
1564842 2-VP-C	Vapor Paper Rachel Gumpper	Brown Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
Date Analyzed :	08/04/2023 Vapor Paper	Black	PLM 76% Cellulose	PLM 24% Other	PLM None Detected
3-VP-A Layer-1 Analyst: Date Analyzed :	Rachel Gumpper 08/04/2023	Fibrous Homogenous	r Livi 70 % Celluluse	r Livi 2470 Guilei	P EW Notice Detected
1564844 3-VP-B Layer-1 Analyst: Date Analyzed :	Vapor Paper Rachel Gumpper 08/04/2023	Black Fibrous Homogenous	PLM 76% Cellulose	PLM 24% Other	PLM None Detected
1564845 3-VP-C Layer-1 Analyst:	Vapor Paper Rachel Gumpper	Black Fibrous Homogenous	PLM 70% Cellulose	PLM 30% Other	PLM None Detected



Layer-1 Analyst: Rachel Gumpper Date Analyzed: 08/04/2023

# **Certificate of Analysis**



### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: 1216 Clinton Ave, Kalamazoo, MI 49001

City of Kalamazoo ACM Survey

**ETL Job**: 260133

Client Project: 188BS23505

**Date Collected**: 07/28/2023 **Date Received**: 08/02/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1564846 4-EC-A	Exterior Caulk	White Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	Rachel Gumpper 08/04/2023	Homogenous			
1564847 4-EC-B Layer-1 Analyst: Date Analyzed :	Exterior Caulk Rachel Gumpper 08/04/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1564848 4-EC-C Layer-1 Analyst: Date Analyzed :	Exterior Caulk  Rachel Gumpper 08/04/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1564849 5-WG-A Layer-1 Analyst: Date Analyzed :	Window Glaze Rachel Gumpper 08/04/2023	White Non-Fibrous Homogenous	PC 1% Cellulose	PC 98.25% Other	PC 0.75% Chrysotile
**Visibly Differen	t Than B/C				
1564850 5-WG-B	Window Glaze	Tan Non-Fibrous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	Rachel Gumpper 08/04/2023	Homogenous			
1564851 5-WG-C	Window Glaze	Tan Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected



Date Analyzed: 08/04/2023

# **Certificate of Analysis**



#### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 260133

46555 Humboldt Dr. Suite 100

Client Project: 188BS23505

Novi, Michigan 48377

**Date Collected:** 07/28/2023

**Date Received:** 08/02/2023

Location: 1216 Clinton Ave, Kalamazoo, MI 49001

City of Kalamazoo ACM Survey

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1564852 6-CC-A Layer-1 Analyst: Date Analyzed :	Concrete Chip  Rachel Gumpper 08/04/2023	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1564853 6-CC-B Layer-1 Analyst: Date Analyzed :	Concrete Chip  Rachel Gumpper 08/04/2023	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1564854 6-CC-C Layer-1 Analyst: Date Analyzed :	Concrete Chip  Rachel Gumpper 08/04/2023	Gray Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1564855 7-WB-A Layer-1 Analyst: Date Analyzed :	Wallboard Rachel Gumpper 08/04/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1564856 7-WB-B Layer-1 Analyst: Date Analyzed :	Wallboard Rachel Gumpper 08/04/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1564857 7-WB-C Layer-1 Analyst:	Wallboard Rachel Gumpper	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected



#### **Certificate of Analysis**

Environmental Testing Laboratories, Inc.

37575 W Huron River Drive
Romulus, Michigan 48174
ENVIRONMENTAL (734) 955-6604

(734) 955-6604

#### Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

46555 Humboldt Dr. Suite 100

Novi, Michigan 48377

Location: 1216 Clinton Ave, Kalamazoo, MI 49001

City of Kalamazoo ACM Survey

ETL Job: 260133

Client Project: 188BS23505

**Date Collected**: 07/28/2023

Date Received: 08/02/2023

Sample Description Appearance % Fibrous % Non-Fibrous % Asbestos

Analyst:

Lab Supervisor/Other Signatory

Jessica Diluth

Rachel Gumpper

Ravell gomes

EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials

EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

A % Asbestos result of "Trace" indicates that the analyzed material was found to contain less than 1% asbestos and would not be considered an Asbestos Containing Material (ACM).



ENVIRONMENTAL TESTING LABORATORIES, INC
38900 HURON RIVER DRIVE
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 992-2261

**Bulk Asbestos Chain of Custody** 

www.2etl.com

ETL Project #: 7.60133

☐ Soil or Vermiculite Analysis\*

Client:	ATC Group Services	Contact: Rob Smith	Project Location/name:	1216 CLINTON ÄVENUE, KALAMAZOO, MICHIGAN 49001 / CITY OF KALAMAZOO ACM SURVEY
	ATO Group Services	Phone: 248-669-5140		
Address:	46555 Humboldt Dr. Ste.	Fax: 248-669-5147		
	100 Novi, MI 48377	E-mail: robert smith@atcgs.com	Client Project #:	188BS23505
Please Prov	vide Results: 🗆 Email 🗀 F	ax Derbal Dother	Date Sampled:	7/28/2023
Turnar	ound Time (TAT):	H Same Day 24 hr 48 hr	Standard (3-5 days)	X Other 72 hours
		PLM Instructions (Check all that apply)		
X PLM EPA	A600/R-93/116, 1993 (Stand	ard method)	X Stop at 1st F	Positive -
Point Count	ting: - 400 Points* - NYSD	Clearly mark Homogenous Group		
☐ Gravimet	ric Reduction*   NYSDOH	ELAP 198.6, 2010*		10.27

<sup>☐</sup> PLM Non-Building Material (Dust, Wipe, Tape) \* Additional charge and turnaround may be required

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Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
837.38.3	3 <b>9</b> 1-RM-A,B,C	Roofing material - asphalt shingle, greenish blue, debris in garage interior	FS-1	675 SF
840,41,4	2-VP-A,B,C	Vapor paper - brown, on interior garage walls	FS-1	650 SF
843,44,4	S 3-VP-A,B,C	Vapor paper - black, over west interior wall	FS-1	50 SF
846,47,4	4-EC-A,B,C	Exterior caulk - white, around door/window frames	EA-1,2,3,4	60 LF
849,880	SI 5-WG-A,B,C	Window glaze - Wood multi-pane windows	EA-1,2	5 Windows
852,53	54 6-CC-A,B,C	Concrete chip - poured garage foundation	FS-1	600 SF
855,56	57 7-WB-A,B,C	Wallboard - leaning on the north exterior wall	EA-1	40 SF
' '				

		Date	Time
Relinquished (Name/Organization):	Andrew DeLodder / Atlas Technical Consultants	7/28/2023	5:00pm
Received (Name/ETL):		8.2.23	9:52 @
Sample Login (Name/ETL):	C	8.2.23	9:52
Stereoscopical/Sample Analysis (Name/ETL)	Last Carry	8-4-23	am/p
Results (Name/ETL):	Fine Epper	8-4-23	am/p
QA/QC Review (Name/ETL):			am/pr
Special instructions: 1st Positive Stop;	if any layer of system is GREATER than 1% asbestos:	Remarks	
Point Count ALL PANTER Samples Trace to 3% as	bestos content		

<sup>\*\*</sup>IN ORDER TO ENSURE RESULTS BY SPECIFIED TAT, THE LAB MUST BE EMAILED/CALLED WITH THE QUANTITY OF SAMPLES TO BE SHIPPED OR DRC OFF

# ATTACHMENT B PHOTOGRAPHS

#### ASBESTOS-CONTAINING MATERIAL SURVEY VACANT RESIDENTIAL PROPERTY 1216 CLINTON AVENUE KALAMAZOO, MICHIGAN 49001



View of the north side of the garage exterior (EA-1)



View of the east side of the garage exterior (EA-2)



#### ASBESTOS-CONTAINING MATERIAL SURVEY VACANT RESIDENTIAL PROPERTY 1216 CLINTON AVENUE KALAMAZOO, MICHIGAN 49001



View of the south side of the garage exterior (EA-3)



View of the west side of the garage exterior (EA-4)



#### ASBESTOS-CONTAINING MATERIAL SURVEY VACANT RESIDENTIAL PROPERTY 1216 CLINTON AVENUE KALAMAZOO, MICHIGAN 49001



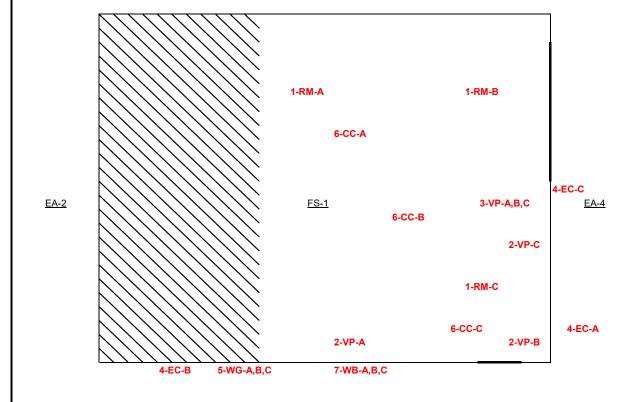
View of the garage interior (FS-1)



# ATTACHMENT C FUNCTIONAL SPACE MAPS



EA-3



<u>EA-1</u>

Street Address: 1216 Clinton Avenue, Kalamazoo, Michigan 49001

Inacessible