SKAGIT COUNTY
COURTHOUSE ANNEX (TI)
PROJECT

Courthouse Annex
605 South 3rd
Mount Vernon, WA 98273

CONSTRUCTION SPECIFICATIONS

May 15th, 2025

SECTION 00 31 00

INFORMATION AVAILABLE TO BIDDERS

PART 1 - GENERAL

1.01 REPORTS

A. The Contract Work area is in current Prosecutor's Office in the Courthouse Annex at 605 S 2nd St, where no lead-based paint or asbestos containing materials were found. Report has been included.

1.02 PURPOSE

A. Report is for information and reference purposes only and does not contain Contract Work.

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION

January 3, 2025

Mr. Eric Peterson
Skagit County Facilities
1800 Continental Place
Mount Vernon, WA 98273

Re: Asbestos Containing Material and Lead Based Paint Survey – Skagit County Superior Courthouse Complex – Mount Vernon, WA

Mr. Peterson:

ALL4 LLC has performed an asbestos containing material (ACM) and lead based paint (LBP) survey at the Skagit County Superior Courthouse Complex (Subject Property) located at 605 South Third Street in Mount Vernon, Washington. Two office suites were surveyed for the presence of ACM and LBP. The Public Defender's Offices and the Prosecutor's Offices were the subject of this investigation. The survey was conducted in preparation for renovation and remodel work planned at the property.

SCOPE OF WORK

This survey evaluated client specified interior building components located in the two office suites. The intent of this survey was to comply with the requirement of a "good faith inspection" in conjunction with redevelopment work being considered at the subject property. The inspection results and information should be made available to any workers that have the potential to disturb suspected building materials determined to contain asbestos. The survey was conducted by visually evaluating the client specified building materials in all accessible areas of the offices and collecting samples from suspect ACM for laboratory analysis. The sample locations and a summary of results are presented in Tables 1 and 2. The survey was limited to 'visible and accessible' materials specified by the client as part of the potential planned renovation.

The survey was conducted on December 10, 2024 by Mr. Thomas Davis. Mr. Davis is a registered AHERA Asbestos Building Inspector (Certification #: NES-BIR-20240826-21) and a Certified Lead Inspector (Certification #: 6063).

Potential ACM samples were analyzed using Polarized Light Microscopy by EPA Method 600/R-93/116 at NVL Laboratories in Seattle, Washington. For samples containing more than one layer of material, the laboratory identified each layer individually and provided a total percentage of asbestos contained in each layer. The definition of an ACM is a material that contains greater than 1% asbestos by weight (29 CFR 1910.1001(b), WAC 296-62-07703).

Potential LBP samples were collected as paint chips from painted surfaces. The paint-chip samples were analyzed at NVL Laboratories in Seattle, Washington using EPA Method 7000B. The definition of an LBP

is a paint, or surface coating, that contains greater than 0.5% lead by weight (24 CFR 35.110; WAC 365-230-020(50)).

ASBESTOS CONTAINING MATERIAL RESULTS

Twenty-three bulk asbestos samples were collected from flooring material, wall material, and related miscellaneous building materials (mastics, etc.) specified by the client in the Public Defender's and the Prosecutor's offices. Ten samples were collected in the Public Defender's offices and thirteen samples were collected from the Prosecutor's offices. ACM sample descriptions and results are presented in Table 1.

ACM was identified at two sampled locations inside the Public Defender's Suite.

1. Sample *Floor-1* and *Floor-3* were collected from brown patterned sheet vinyl flooring located below the older carpet in the western section of the office suite. The samples contained between 34% and 58% Chrysotile asbestos in the sheet vinyl's fibrous backing material.

No ACM was identified at the Prosecutor's offices.

The original laboratory-provided asbestos analytical data report (Method 600/R-93/116) is included in Appendix A.

LEAD BASED PAINT RESULTS

Ten paint chip samples were collected from the variety of paint colors observed inside the two surveyed office suites. LBP sample descriptions and results are presented in Table 2.

LBP was not identified at the sampled locations in either office suite.

The original laboratory-provided lead-based paint analytical data report is included in Appendix B.

CONCLUSIONS

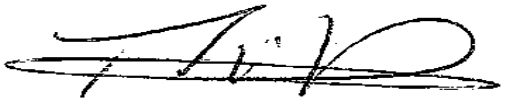
ACM was identified in two of twenty-three samples collected from the Skagit County Superior Court complex.

The off-white to beige fibrous backing material associated with brown patterned sheet vinyl located in the Public Defender's office suite was identified as ACM. If the brown patterned sheet vinyl material is encountered at any other location during remodel work, it should be assumed to be ACM or tested to confirm a negative result. Due to the sheet vinyl being hidden by carpet, the area of the ACM was not able to be calculated.

No LBP was identified at the sampled locations. It should be noted that Federal OSHA considers any amount of lead in paint as 'lead-containing' and worker protection requirements may need to be considered. If the coating is disturbed or removed in a manner that could generate airborne lead concentrations above the OSHA Action Level or Permissible Exposure Limit (PEL).

On behalf of ALL4 LLC, I appreciate the opportunity to provide Skagit County Facilities with this ACM/LBP survey for the Public Defender's Offices and the Prosecutor's Offices located at the Skagit County Superior Court complex in Mount Vernon, Washington. If you have any questions regarding the report's findings, please call me at (360) 752-9571.

Sincerely,



Thomas Davis, L.G. - **ALL4 LLC**
AHERA Building Inspector Certification #BI/R-NES-07-28-23-10
Lead Inspector Certification #6063

Table 1
ACM Sample Analytical Results
605 S. Third, Mount Vernon, WA 98273
Skagit County Facilities

Sample ID	Date	Sample Location and Description	Analytical Result (%)	Designation[(a)]
Samples listed in the order collected. Started at the public defender's offices.				
Wall Coating-1	12/10/2024	Collected from wall plaster located in the NW room	ND	Not ACM
Floor-1	**12/10/2024**	**Collected from brown patterned sheet vinyl located below carpet in the NW room. The asbestos was identified in the beige fibrous backing with mastic (Layer 2 of 3).**	**34% Chrysotile**	**ACM**
Floor-2	12/10/2024	Collected from white sheet vinyl located in the kitchen area	ND	Not ACM
Mastic-1	12/10/2024	Collected from brown brittle mastic located below the old carpet located in the kitchen	ND	Not ACM
Floor-3	**12/10/2024**	**Collected from brown patterned sheet vinyl located below carpet in the SW meeting room. The asbestos was identified in the off-white fibrous backing with gold mastic (Layer 4 of 4).**	**58% Chrysotile**	**ACM**
Wall Coating-2	12/10/2024	Collected from wall plaster located in SW meeting room	ND	Not ACM
Mastic-2	12/10/2024	Collected from brown mastic below newer blue carpet located in the waiting room behind door under fake Ficus plant	ND	Not ACM
Mastic-3	12/10/2024	Collected from brown mastic located below new blue carpet located behind door in the copy room	ND	Not ACM
Wall Coating-3	12/10/2024	Collected from fibrous wall covering (wall paper?) located low on wall behind the door in the copy room	ND	Not ACM
Wall Coating-4	12/10/2024	Collected from fibrous wall covering (wall paper?) located low on wall near the door in the NE corner of the waiting room	ND	Not ACM
Move to the prosecutor's offices.				
Floor-4	12/10/2024	Collected from the 12"x12" floor tiles and mastic located in the janitor's closet in the men's room	ND	Not ACM
Caulk-1	12/10/2024	Collected from flexible white caulking material located at the bottom of the mop sink in the janitors closet	ND	Not ACM
Wall Coating-5	12/10/2024	Collected from outer fibrous layer of drywall material with paint located in the janitors closet	ND	Not ACM
Floor-5	12/10/2024	Collected from the blue and the white 12x12 floor tiles located behind door in the copy room	ND	Not ACM

Table 1
ACM Sample Analytical Results
605 S. Third, Mount Vernon, WA
98273 Skagit County Facilities

Sample ID	Date	Sample Location and Description	Analytical Result (%)	Designation[(a)]
Cove Base-1	12/10/2024	Collected from black vinyl cove base material located in the file storage hallway	ND	Not ACM
Ceiling Tile-1	12/10/2024	Collected from drop ceiling tile material located in the copy room	ND	Not ACM
Floor-6	12/10/2024	Collected from 12x12 blue and white floor tiles located in the lunchroom area	ND	Not ACM
Floor-7	12/10/2024	Collected from the speckled white sheet vinyl located in women's room. Appears to have a lower layer of flooring	ND	Not ACM
Wall Coating-6	12/10/2024	Collected from the skim coating located at the short wall by the men's room	ND	Not ACM
Caulk-2	12/10/2024	Collected from flexible caulking material located at the edge of metal door frames in the hallway	ND	Not ACM
Mastic-4	12/10/2024	Collected from sticky brown mastic located below carpet in the file storage hallway	ND	Not ACM
Floor-8	12/10/2024	Collected from the 12x12 floor tiles located in the waiting room	ND	Not ACM
Cove Base-2	12/10/2024	Collected from black vinyl cove base material with mastic located in the waiting room	ND	Not ACM

[(a)] Asbestos containing material is defined as a building material containing >1.0% asbestos by volume

BOLD and Shaded - indicates that the detected concentration exceeded the definition of an ACM

ND - indicates analyte was Not Detected at level above reporting limit (shown in parentheses)

Table 2
LBP Sample Analytical Results
605 S. Third, Mount Vernon, WA 98273
Skagit County Facilities

Sample ID	Date	Sample Location and Description	Analytical Result (%)	Designation[(a)]
Started at the public defender's offices.				
PC-1	12/10/2024	Seafoam green color paint collected from the NW room	0.05%	Not LBP
PC-2	12/10/2024	White wall paint collected from SW meeting room	0.19%	Not LBP
PC-3	12/10/2024	Tan color paint collected from the copy room	<0.0048%	Not LBP
PC-4	12/10/2024	Light blue color paint collected from the kitchen area	<0.0073%	Not LBP
Move to the prosecutor's offices.				
PC-5	12/10/2024	Off-white color paint collected from the janitors closet in the Men's Room	<0.0055%	Not LBP
PC-6	12/10/2024	Green color paint collected from the file storage hallway	<0.0085%	Not LBP
PC-7	12/10/2024	Blue color paint collected from the office side of the hallway	<0.0052%	Not LBP
PC-7a	12/10/2024	Red color paint collected from the office side of the hallway	<0.0056%	Not LBP
PC-8	12/10/2024	Brown color paint collected from the paint located on post/beams on the edge of the office side of the hallway	<0.0051%	Not LBP
PC-9	12/10/2024	Yellow color paint collected from the waiting area outside the office suite	<0.0051%	Not LBP

[(a)] Lead based paint is defined as a surface coating containing 0.5% lead by volume or greater

APPENDIX A

Asbestos Containing Material Laboratory Analytical Report
(Method EPA 600/R-93/116)

December 17, 2024

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

Thomas Davis
All4 LLC
228 E Champion St #101
Bellingham, WA 98225

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2422085.00

Client Project: Skagit Co. Facilities Dec 2024 Courthouse ACMLBP
Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Dear Mr. Davis,

Enclosed please find test results for the 23 sample(s) submitted to our laboratory for analysis on 12/11/2024.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Munaf Khan, President/Laboratory Director

NVLAP
Testing
Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: All4 LLC
Address: 228 E Champion St #101
Bellingham, WA 98225

Attention: Mr. Thomas Davis
Project Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Batch #: 2422085.00
Client Project #: Skagit Co. Facilities Dec 2024 Courthouse ACMLBP
Date Received: 12/11/2024
Samples Received: 23
Samples Analyzed: 23
Method: EPA/600/R-93/116

Lab ID: 24133004 **Client Sample #: Caulk-1**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 1 **Description:** White soft/elastic rubbery material with partially yellow mastic and debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Rubber/Binder, Mastic, Fine particles	Synthetic fibers 2%	**None Detected ND**
Debris	Cellulose 1%	

Lab ID: 24133005 **Client Sample #: Caulk-2**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 4 **Description:** White soft/elastic rubbery material with paint and debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Rubber/Binder, Fine particles, Paint	Synthetic fibers 1%	**None Detected ND**
Debris		

Layer 2 of 4 **Description:** Gray soft material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	None Detected ND	**None Detected ND**

Layer 3 of 4 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Paint	Cellulose <1%	**None Detected ND**

Layer 4 of 4 **Description:** White small amount chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Fine particles	Cellulose 31%	**None Detected ND**

Lab ID: 24133006 **Client Sample #: Ceiling Tile-1**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 12/16/2024
Reviewed by: Munaf Khan **Date:** 12/17/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: All4 LLC
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Bellingham, WA 98225

Attention: Mr. Thomas Davis
Project Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Batch #: 2422085.00
Client Project #: Skagit Co. Facilities Dec 2024 Courthouse ACMLBP
Date Received: 12/11/2024
Samples Received: 23
Samples Analyzed: 23
Method: EPA/600/R-93/116

Layer 1 of 1 **Description:** Beige compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Perlite, Fine particles	Cellulose 38%	**None Detected ND**
Paint	Synthetic fibers 1%	

Lab ID: 24133007 **Client Sample #: Cove Base-1**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 3 **Description:** Black rubbery material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/Binder, Fine particles	Cellulose <1%	**None Detected ND**

Layer 2 of 3 **Description:** Yellow soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**

Layer 3 of 3 **Description:** White thin compacted powdery material with paint and tan paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles	Cellulose 41%	**None Detected ND**

Lab ID: 24133008 **Client Sample #: Cove Base-2**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 3 **Description:** Black rubbery material with partial yellow paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Rubber/Binder, Rubber, Fine particles	Cellulose <1%	**None Detected ND**
Paint		

Layer 2 of 3 **Description:** White soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 12/16/2024
Reviewed by: Munaf Khan **Date:** 12/17/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Samples Analyzed: 23
Method: EPA/600/R-93/116

Layer 3 of 3	**Description:** White thin compacted powdery material with paint and tan paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Fine particles	Cellulose 43%	**None Detected ND**

Lab ID: 24133009 **Client Sample #: Floor-1**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 3	**Description:** Brown patterned sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Synthetic fibers 1%	**None Detected ND**
Layer 2 of 3	**Description:** Beige fibrous backing with mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Mastic	Cellulose 11%	**Chrysotile 34%**
Layer 3 of 3	**Description:** Gray sandy/brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Mineral grains	Synthetic fibers 2%	**None Detected ND**
	Fine particles	Cellulose 1%	

Lab ID: 24133010 **Client Sample #: Floor-2**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 3	**Description:** Beige pattern sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Synthetic fibers <1%	**None Detected ND**
Layer 2 of 3	**Description:** Beige fibrous backing with mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mastic, Fine particles	Cellulose 35%	**None Detected ND**
		Glass fibers 11%	

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 12/16/2024
Reviewed by: Munaf Khan **Date:** 12/17/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: All4 LLC
Address: 228 E Champion St #101
Bellingham, WA 98225

Attention: Mr. Thomas Davis
Project Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Batch #: 2422085.00
Client Project #: Skagit Co. Facilities Dec 2024 Courthouse ACMLBP
Date Received: 12/11/2024
Samples Received: 23
Samples Analyzed: 23
Method: EPA/600/R-93/116

Layer 3 of 3 **Description:** Tan crumbly material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine grains, Fine particles	Synthetic fibers 4%	**None Detected ND**

Lab ID: 24133011 Client Sample #: Floor-3

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 4 **Description:** Multi-colored woven fibrous material with mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Mastic	Synthetic fibers 63%	**None Detected ND**

Layer 2 of 4 **Description:** Black soft material with adhesive

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/Binder, Fine particles, Fine grains	Glass fibers 9%	**None Detected ND**
Adhesive	Synthetic fibers <1%	

Layer 3 of 4 **Description:** Brown pattern sheet vinyl

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/Binder, Fine particles, Fine grains	Synthetic fibers <1%	**None Detected ND**

Layer 4 of 4 **Description:** Off-white fibrous backing with gold mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Mastic	Cellulose 6%	**Chrysotile 58%**

Lab ID: 24133012 Client Sample #: Floor-4

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 2 **Description:** Beige vinyl tile with debris at sides

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/Binder, Fine particles, Fine grains	Synthetic fibers 3%	**None Detected ND**

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 12/16/2024
Reviewed by: Munaf Khan **Date:** 12/17/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Samples Analyzed: 23
Method: EPA/600/R-93/116

		Debris	Cellulose	2%	
Layer 2 of 2	**Description:** Yellow soft mastic with debris				
		Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
		Mastic/Binder, Fine particles, Fine grains	Cellulose	1%	**None Detected ND**
		Debris	Synthetic fibers	1%	

Lab ID: 24133013 **Client Sample #: Floor-5**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 3	**Description:** Beige vinyl tile				
		Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
		Vinyl/Binder, Fine particles, Fine grains	Synthetic fibers	1%	**None Detected ND**
Layer 2 of 3	**Description:** Gray vinyl tile				
		Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
		Vinyl/Binder, Fine grains, Fine particles	Synthetic fibers	<1%	**None Detected ND**
Layer 3 of 3	**Description:** Tan brown crumbly material with mastic				
		Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
		Binder/Filler, Fine grains, Fine particles	Cellulose	4%	**None Detected ND**
		Mastic	Synthetic fibers	3%	

Lab ID: 24133014 **Client Sample #: Floor-6**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 4	**Description:** Beige vinyl tile with debris at sides and gold mastic				
		Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
		Vinyl/Binder, Fine grains, Fine particles	Synthetic fibers	2%	**None Detected ND**
		Debris, Mastic	Cellulose	1%	

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 12/16/2024
Reviewed by: Munaf Khan **Date:** 12/17/2024

Munaf Khan, President/Laboratory Director

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Samples Analyzed: 23
Method: EPA/600/R-93/116

Layer 2 of 4	**Description:** Tan brown crumbly material with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	Synthetic fibers	2%	**None Detected ND**
	Mastic	Cellulose	1%	
Layer 3 of 4	**Description:** Gray vinyl tile with debris at sides			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Synthetic fibers	3%	**None Detected ND**
	Debris	Cellulose	2%	
Layer 4 of 4	**Description:** Tan brown crumbly material with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	Cellulose	2%	**None Detected ND**
	Mastic	Synthetic fibers	2%	

Lab ID: 24133015 **Client Sample #: Floor-7**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 3	**Description:** Bluish gray pattern sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Synthetic fibers	<1%	**None Detected ND**
Layer 2 of 3	**Description:** Off-white fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles	Synthetic fibers	16%	**None Detected ND**
		Glass fibers	7%	
Layer 3 of 3	**Description:** Tan brown crumbly material with coating			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	Synthetic fibers	7%	**None Detected ND**

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 12/16/2024
Reviewed by: Munaf Khan **Date:** 12/17/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: All4 LLC
Address: 228 E Champion St #101
Bellingham, WA 98225

Attention: Mr. Thomas Davis
Project Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Batch #: 2422085.00
Client Project #: Skagit Co. Facilities Dec 2024 Courthouse ACMLBP
Date Received: 12/11/2024
Samples Received: 23
Samples Analyzed: 23
Method: EPA/600/R-93/116

	Debris	Cellulose	3%	

Lab ID: 24133016 **Client Sample #: Floor-8**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 2 **Description:** Beige vinyl tile

	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Synthetic fibers	<1%	**None Detected ND**

Layer 2 of 2 **Description:** Yellow crumbly mastic with debris

	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles, Debris	Synthetic fibers	2%	**None Detected ND**

Lab ID: 24133017 **Client Sample #: Mastic-1**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 2 **Description:** Tan brittle mastic

	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine grains, Fine particles	Cellulose	4%	**None Detected ND**

Layer 2 of 2 **Description:** Brown crumbly putting material with clear adhesive

	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Fine grains	Synthetic fibers	5%	**None Detected ND**
	Adhesive	Cellulose	2%	

Lab ID: 24133018 **Client Sample #: Mastic-2**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 2 **Description:** Yellow soft mastic

	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles, Fine grains	Cellulose	4%	**None Detected ND**
		Synthetic fibers	2%	

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 12/16/2024
Reviewed by: Munaf Khan **Date:** 12/17/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: All4 LLC
Address: 228 E Champion St #101
Bellingham, WA 98225

Attention: Mr. Thomas Davis
Project Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Batch #: 2422085.00
Client Project #: Skagit Co. Facilities Dec 2024 Courthouse ACMLBP
Date Received: 12/11/2024
Samples Received: 23
Samples Analyzed: 23
Method: EPA/600/R-93/116

Layer 2 of 2 **Description:** Brown crumbly putting material with clear adhesive

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Fine particles, Fine grains	Synthetic fibers	6%	**None Detected ND**
Adhesive	Cellulose	3%	

Lab ID: 24133019 Client Sample #: Mastic-3

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 2 **Description:** Yellow soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Mastic/Binder, Fine particles, Fine grains	Cellulose	5%	**None Detected ND**
	Synthetic fibers	2%	

Layer 2 of 2 **Description:** Brown crumbly putting material with clear adhesive

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Fine particles, Fine grains	Synthetic fibers	4%	**None Detected ND**
Adhesive	Cellulose	2%	

Lab ID: 24133020 Client Sample #: Mastic-4

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 1 **Description:** Light brown soft mastic with debris and paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Mastic/Binder, Fine particles, Debris	Synthetic fibers	4%	**None Detected ND**
Paint			

Lab ID: 24133021 Client Sample #: Wall Coatings-1

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 12/16/2024
Reviewed by: Munaf Khan **Date:** 12/17/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: All4 LLC
Address: 228 E Champion St #101
Bellingham, WA 98225

Attention: Mr. Thomas Davis
Project Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Batch #: 2422085.00
Client Project #: Skagit Co. Facilities Dec 2024 Courthouse ACMLBP
Date Received: 12/11/2024
Samples Received: 23
Samples Analyzed: 23
Method: EPA/600/R-93/116

Layer 1 of 1 **Description:** Gray sandy/brittle material with layered paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Fine grains, Mineral grains	Cellulose	3%	**None Detected ND**
Fine particles, Paint			

Lab ID: 24133022 **Client Sample #: Wall Coatings-2**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 1 **Description:** Gray sandy material with layered paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Sand, Fine grains	Cellulose	4%	**None Detected ND**
Mineral grains, Paint			

Lab ID: 24133023 **Client Sample #: Wall Coatings-3**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 2 **Description:** White fibrous material with paint and foam

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Synthetic foam, Fine particles	Synthetic fibers	28%	**None Detected ND**
Paint	Cellulose	3%	

Layer 2 of 2 **Description:** White crumbly material with yellow brittle mastic

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Perlite, Fine grains	Synthetic fibers	2%	**None Detected ND**
Fine particles, Mastic			

Lab ID: 24133024 **Client Sample #: Wall Coatings-4**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 12/16/2024
Reviewed by: Munaf Khan **Date:** 12/17/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: All4 LLC
Address: 228 E Champion St #101
Bellingham, WA 98225

Attention: Mr. Thomas Davis
Project Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Batch #: 2422085.00
Client Project #: Skagit Co. Facilities Dec 2024 Courthouse ACMLBP
Date Received: 12/11/2024
Samples Received: 23
Samples Analyzed: 23
Method: EPA/600/R-93/116

Layer 1 of 2 **Description:** White fibrous with foamy material and paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Synthetic foam, Fine particles	Synthetic fibers 27%	**None Detected ND**
Paint	Cellulose 2%	

Layer 2 of 2 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Fine grains	Synthetic fibers 2%	**None Detected ND**
Fine particles, Paint		

Lab ID: 24133025 **Client Sample #: Wall Coatings-5**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 1 **Description:** White thin compacted powdery material with paint and tan paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Fine grains	Cellulose 36%	**None Detected ND**
Fine particles, Paint		

Lab ID: 24133026 **Client Sample #: Wall Coatings-6**

Location: 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Layer 1 of 1 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Fine grains	Cellulose <1%	**None Detected ND**
Paint		

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 12/16/2024
Reviewed by: Munaf Khan **Date:** 12/17/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

ASB-02

ASBESTOS LABORATORY SERVICES

Company	All4 LLC	**NVL Batch Number**	**2422085.00**
Address	228 E Champion St #101 Bellingham, WA 98225	**TAT** 5 Days **AH** No **Rush TAT**	
Project Manager	Mr. Thomas Davis	**Due Date** 12/18/2024 **Time** 3:30 PM	
Phone	(360) 752-9571	**Email**	tdavis@all4inc.com
Cell	(253) 906-6648	**Fax**	(360) 752-9573

Project Name/Number: Skagit Co. Facilities Dec 2024 Courthouse AOML RR **Project Location:** 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 23 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	24133004	Caulk-1		A
2	24133005	Caulk-2		A
3	24133006	Ceiling Tile-1		A
4	24133007	Cove Base-1		A
5	24133008	Cove Base-2		A
6	24133009	Floor-1		A
7	24133010	Floor-2		A
8	24133011	Floor-3		A
9	24133012	Floor-4		A
10	24133013	Floor-5		A
11	24133014	Floor-6		A
12	24133015	Floor-7		A
13	24133016	Floor-8		A
14	24133017	Mastic-1		A
15	24133018	Mastic-2		A
16	24133019	Mastic-3		A
17	24133020	Mastic-4		A
18	24133021	Wall Coatings-1		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	UPS				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	12/11/24	1530
Analyzed by	Ghulam Nazari		NVL	12/16/24	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 12/11/2024
Time: 4:58 PM
Entered By: Fatima Khan

ASBESTOS LABORATORY SERVICES

Company	All4 LLC	**NVL Batch Number**	**2422085.00**
Address	228 E Champion St #101 Bellingham, WA 98225	**TAT** 5 Days	**AH** No
		Rush TAT	
Project Manager	Mr. Thomas Davis	**Due Date** 12/18/2024	**Time** 3:30 PM
Phone	(360) 752-9571	**Email**	tdavis@all4inc.com
Cell	(253) 906-6648	**Fax**	(360) 752-9573

Project Name/Number: Skagit Co. Facilities Dec 2024 Courthouse ACM/LBP **Project Location:** 004563-0003.00 205 W Kincaid St. Mount Vernon, WA 98273

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 23 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	24133022	Wall Coatings-2		A
20	24133023	Wall Coatings-3		A
21	24133024	Wall Coatings-4		A
22	24133025	Wall Coatings-5		A
23	24133026	Wall Coatings-6		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	UPS				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	12/11/24	1530
Analyzed by	Ghulam Nazari		NVL	12/16/24	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 12/11/2024
Time: 4:58 PM
Entered By: Fatima Khan

2422085

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

ASBESTOS CHAIN OF CUSTODY

Turnaround Time
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☒ 5 Days
- ☐ 10 Days

Please call for TAT less than 24 Hours

Company ALL4 Inc.
Address 228 East Champion Street, Suite #101
Bellingham, WA 98225
Phone (360) 752-9571

Project Manager Thom Davis
Cell (253) 906 - 6648
Email tdavis@all4inc.com
Fax ( ) -

Project Name: Skagit Co. Facilities: Dec. 2024 Courthouse ACM/LBP
Project Number: 004563-0003.00
Project Location: ☒ 205 W Kincaid St, Mount Vernon, WA 98273

- ☐ PCM Air (NIOSH 7400)
- ☒ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions
☐ Call ( ) - ☐ Fax ( ) - ☒ Email

Total Number of Samples ____

	Sample ID	Description	A/R
1	Caulk-1		
2	Caulk-2		
3	Ceiling Tile-1		
4	Cove Base-1		
5	Cove base-2		
6	Floor-1		
7	Floor-2		
8	Floor-3		
9	Floor-4		
10	Floor-5		
11	Floor-6		
12	Floor-7		
13	Floor-8		
14	Mastic-1		
15	Mastic-2		

	Print Name	Signature	Company	Date	Time
Sampled by	Thom Davis		ALL4	~~Nov. 12, 2024~~ 12-10-24	1555
Relinquish by					

P. 1 of 2

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Ken Allen			12/11/24	~~1515~~ 1530 LPS
Analyzed by					
Called by					
Faxed/Email by					

2422085

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☒ 5 Days
- ☐ 10 Days

Please call for TAT less than 24 Hours

Company ALL4 Inc.
Address 228 East Champion Street, Suite #101
Bellingham, WA 98225
Phone (360) 752-9571

Project Manager Thom Davis
Cell (253) 906 - 6648
Email tdavis@all4inc.com
Fax ( ) -

Project Name: Skagit Co. Facilities: Dec. 2024 Courthouse ACM/LBP
Project Number: 004563-0003.00
Project Location: 205 W Kincaid St, Mount Vernon, WA 98273

- ☐ PCM Air (NIOSH 7400)
- ☒ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions
☐ Call ( ) - ☐ Fax ( ) - ☒ Email

Total Number of Samples _____

	Sample ID	Description	A/R
1	Mastic-3		
2	Mastic-4		
3	Wall Coating-1		
4	Wall Coating-2		
5	Wall Coating-3		
6	Wall Coating-4		
7	Wall Coating-5		
8	Wall Coating-6		
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Thom Davis		ALL4	12-10-24 ~~Nov. 12, 2024~~	1555
Relinquish by					

P. 2 of 2

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Kelsten			12/11/24	1530
Analyzed by					
Called by					
Faxed/Email by					

APPENDIX B

Lead Based Paint Laboratory Analytical Report
(Method EPA 7000B)

December 16, 2024

Thomas Davis
All4 LLC
228 E Champion St #101
Bellingham, WA 98225

NVL Batch # 2422086.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: Skagit Co. Facilities Dec 2024 Courthouse ACMLBP
Location: 004563-0003.00 4205 W Kincaid St. Mount Vernon, WA 98273

Dear Mr. Davis,

NVL Labs received 10 sample(s) for the said project on 12/11/2024. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B , unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. If samples were collected by the customer, then the reported test results apply only to the samples as received by NVL Labs. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

Shalini Patel, Manager Metals/Org Laboratory

Enc.: Sample results

Analysis Report

Total Lead (Pb)

Client: All4 LLC

Address: 228 E Champion St #101
Bellingham, WA 98225

Attention: **Mr. Thomas Davis**

Project Location: 004563-0003.00 4205 W Kincaid St. Mount Vernon, WA 98273

Batch #: 2422086.00

Matrix: Paint

Method: EPA 3051/7000B

Client Project #: Skagit Co. Facilities Dec 2024 Courthouse

Date Received: 12/11/2024

Samples Received: 10

Samples Analyzed: 10

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
24133027	PC-1	0.1939	52	500	0.050
24133028	PC-2	0.2066	48	1900	0.19
24133029	PC-3	0.2086	48	< 48	<0.0048
24133030	PC-4	0.1376	73	< 73	<0.0073
24133031	PC-5	0.1807	55	< 55	<0.0055
24133032	PC-6	0.1178	85	< 85	<0.0085
24133033	PC-7	0.1937	52	< 52	<0.0052
24133034	PC-7a	0.1801	56	< 56	<0.0056
24133035	PC-8	0.1967	51	< 51	<0.0051
24133036	PC-9	0.1963	51	< 51	<0.0051

Sampled by: Client

Analyzed by: Yasuyuki Hida

Reviewed by: Shalini Patel

Date Analyzed: 12/16/2024

Date Issued: 12/16/2024

Shalini Patel, Manager Metals/Org Laboratory

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

RL = Reporting Limit

'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2024-1216-01

FAA-02

LEAD LABORATORY SERVICES

Company	All4 LLC	**NVL Batch Number**	**2422086.00**
Address	228 E Champion St #101 Bellingham, WA 98225	**TAT** 5 Days **AH** No **Rush TAT**	
Project Manager	Mr. Thomas Davis	**Due Date** 12/18/2024 **Time** 3:30 PM	
Phone	(360) 752-9571	**Email** tdavis@all4inc.com	
Cell	(253) 906-6648	**Fax** (360) 752-9573	

Project Name/Number:	Skagit Co. Facilities Dec 2024 Courthouse ACM LBP	**Project Location:**	004563-0003.00 4205 W Kincaid St. Mount Vernon, WA 98273

Subcategory Flame AA (FAA)

Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 10 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	24133027	PC-1		A
2	24133028	PC-2		A
3	24133029	PC-3		A
4	24133030	PC-4		A
5	24133031	PC-5		A
6	24133032	PC-6		A
7	24133033	PC-7		A
8	24133034	PC-7a		A
9	24133035	PC-8		A
10	24133036	PC-9		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	UPS				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	12/11/24	1530
Analyzed by	Yasuyuki Hida		NVL	12/16/24	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 12/11/2024
Time: 5:02 PM
Entered By: Fatima Khan

2422086

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

METALS CHAIN OF CUSTODY

- ☐ 2 Hour ☐ 4 Hours ☐ 24 Hours
- ☐ 2 Days ☐ 3 Days ☐ 4 Days
- ☒ 5 Days ☐ 6-10 Days
- Please call for TAT less than 24 Hours

Company: All4 Inc.
Address: 228 E Champion #101, Bellingham, WA 98225
Phone: (360) 752-9571

Project Manager: Thom Davis
Cell: (253) 906 - 6648
Email: tdavis@whatcom-es.com
Fax: ( ) -

Project Name	Project Number	Project Location
Skagit Co. Facilities: Dec. 2024 Courthouse ACM/LBP	Project Number: 004563-0003.00	4205 W Kincaid St, Mount Vernon, WA 98273

- ☒ Total Metals
- ☐ TCLP
- ☒ FAA (ppm
- ☐ ICP (PPM
- ☐ GFAA (ppb)
- ☐ CVAA (ppb)
- ☐ Air Filter
- ☐ Paint Chips (cm)
- ☐ Drinking Water
- ☒ Paint Chips (%)
- ☐ Dust Wipes
- ☐ Waste Water
- ☐ Soil
- ☐ Other

RCRA 8
- ☐ Barium
- ☐ Arsenic
- ☐ Selenium
- ☐ Chromium
- ☐ Mercury
- ☐ Cadmium
- ☐ Silver
- ☒ Lead

RCRA 11
- ☐ Copper
- ☐ Zinc
- ☐ Other

Reporting Instructions
☐ Call ( ) - ☐ Fax ( ) - ☐ Email

Total Number of Samples

	Sample ID	Description	A/R
1	PC-1		
2	PC-2		
3	PC-3		
4	PC-4		
5	PC-5		
6	PC-6		
7	PC-7		
8	PC-7a		
9	PC-8		
10	PC-9		
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Thom Davis		All4 Inc.	December 10, 2024	1555
Relinquish by					

P. 1 61

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	[illegible]			12/11/24	1530 PS
Analyzed by					
Called by					
Faxed/Email by					

SECTION 02 22 00

SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 REFERENCES

A. American National Standards Institute (ANSI).
   1. A10.6 "American National Standard Safety Requirements for Demolition."

1.2 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with applicable rules, codes, regulations, and safety orders of all public agencies having jurisdiction.

1.2 SITE CONDITIONS

A. This is a secured building and all personnel, tools and equipment will be subject to search. Access routes of materials, personnel, tools, etc will need to be coordinated with Owners Rep. at a Pre-Construction meeting.

B. The overall building, but not this work area, will be occupied during demolition and construction. Contractor will take all precautions to ensure the site is safe and clean.

C. Provide dirt and dust barriers, debris containers, removal routes, and disposal to protect areas utilized by Owner.

D. Where existing unidentified utilities, structures or services are discovered submit information for resolution prior to proceeding.

E. See Site Plan for contractor parking, project access, staging areas and other safety and access requirements.

1.4 RELATED SECTIONS

A. Section 00 31 00 - Information Available to Bidders; Limited Good Faith Asbestos and Lead Inspection.

1.5 WORK INCLUDED

A. Removal and disposal of existing walls, doors, plaster, drywall, flooring, electrical, light fixtures, interior relights, and other items as noted on the Drawings.

B. Removal of existing hazardous materials as noted within Section 00 31 00 - Information Available to Bidders.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Carefully remove items marked or designated for salvage or reuse and store as directed by Owner.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas affected by Work of this Section and verify that necessary shoring and other required protection is in place.

3.2 PREPARATION

A. Provide protection as necessary and in accordance with applicable regulations.

B. Verify existing utility services to remain in operation, cooperate with Owner in scheduling Work so there will be a minimum of interference. Prearrange utility shutdown or temporary interruption with Owners Project Manager prior to Work commencement.

C. Notify utilities having service connections within the building in a timely manner.

D. Contact municipal and regulatory agencies affected by and interested in the Work. Secure necessary information and permits required, and make detailed arrangements for smooth safe prosecution of the Work.

3.3 DEMOLITION

A. Perform Work in accordance with ANSI A10.6, and regulatory requirements.

B. Contractor shall be solely responsible for safety, adequacy and satisfactory performance of methods and means employed.

C. Sequence of removal of demolished items so as to minimize impact on adjacent materials and utilities.

D. Unless noted for salvage and/or reuse, legally dispose of demolition materials off site. Location of disposal site and length of haul are the Contractor's responsibility.

E. Carefully remove items to be retained by Owner for reuse and place in an area that is secure and safe from damage.

F. Remove and dispose of all items marked for demolition as shown on Drawings.

G. At beginning of construction, take appropriate measures to minimize construction dust and dirt from entering the existing HVAC system. At conclusion of construction, contractor shall replace all existing and new HVAC equipment filters with new filters.

3.4 CUTTING AND PATCHING

A. General: Provide requirements and be responsible for all cutting, fitting, and patching required to complete the Work, or to:

Make it so several parts fit together and provide for installation of ill-timed Work.
Uncover portions of Work to provide for installation of ill-timed Work.
Remove and replace defective Work.
Remove and replace Work not conforming to Contract Document requirements.
Remove samples of installed Work as specified for testing.
Provide routine penetrations on non-structural surfaces for installation of piping.

B. Project Conditions:
1. Inspect existing conditions including elements subject to damage or movement during cutting and patching.
2. After uncovering Work, inspect conditions affecting installation of products or performance of Work.
3. Report unsatisfactory or questionable conditions to Owner in writing. Do not proceed with Work until Owner provides further instructions.

C. Materials:
1. Those required for original installation.
2. For any change in materials, submit request for substitution to Owner.

D. Preparation:
1. Provide adequate temporary support as required to assure structural value or integrity of the affected portion of the Work.
2. Provide devices and methods to protect other portions of the Project which may be exposed by uncovering Work.

E. Performance:
1. Execute cutting and demolition by methods which will avoid damage to other areas, and will provide proper surfaces to receive patching and finishing.
1. Execute fitting and adjustment of products to provide a finished installation to comply with specified products, functions, tolerances, and finishes.
2. Restore Work which has been cut or removed; install new products to provide completed Work in accordance with Contract Document requirements.
4. Refinish entire surfaces as required to provide even finish to match adjacent finishes.
5. Cutting: At limits of demolition Work required or specified, provide neat, orderly, and clean joints, lines, and edges of surfaces, whether for junctions with new materials or surfaces or whether to be left as existing.
6. Patching: Repair or replace any surfaces selectively removed to access the Work and any surfaces to remain which become exposed, defaced, or damaged as a result of demolition Work at no increase in Contract Sum. Repair surfaces to existing level of finish to nearest change in plane.
7. Provide cutting of gypsum board as required for access and performance of Work. Review areas to be cut, for each type of unit, at pre-construction conference.

8. Avoid cutting into walls that are finished with wall covering unless absolutely necessary for completion of Work.
9. Patch and otherwise prepare gypsum board surfaces for painting where existing wall coverings are removed. Provide surfaces true, even, free of humps and depressions.
10. Saw cut or core drill concrete at foundations or inside building envelope as required.

F. At limits of demolition Work shown or specified, provide neat, orderly and clean joints, lines, and edges of surfaces, whether for junctions with new materials or surfaces or whether to be left as existing. Where methods or controls may not permit intended joining, submit conditions and alternatives, and obtain resolution prior to commencing Work.

3.5 PATCHING

A. Repair or replace any surfaces to remain which become exposed, defaced, or damaged as a result of demolition work at no increase in Contract Sum. Repair and repaint surfaces to nearest change in plane.

3.6 CLEANING

A. Provide cleaning during demolition as necessary and to the acceptance of the Owner.

B. Leave all portions of demolition area in a level, safe, and sanitary condition acceptable to public authorities and the Owner.

END OF SECTION

SECTION 07 84 00

FIRESTOPPING/SMOKE SEAL SYSTEMS

PART 1 - GENERAL

.

1.01 WORK INCLUDES

A. Firestopping and Smoke Seal Systems

1.02 SCOPE OF WORK

A. Provide Firestopping/Smoke Seal System(s) conforming to IBC, ASTM E814 and requirements of the authority having jurisdiction at the following locations:
   1. Around structural, mechanical, electrical and other penetrations through fire rated assemblies.
   2. At cracks, gaps and openings in fire rated assemblies.
   3. At perimeter of fire rated assemblies where there are cracks, gaps, voids or openings.

1.03 REFERENCES

A. All references shall be the latest adopted edition, except as noted.

B. ASTM E814 - Standard Test Method for Fire Tests of Through-Penetration Fire Stops

C. ITS (DIR) - Directory of Listed Products; Intertek Testing Services NA, Inc.; current edition

D. FM P7825 - Approval Guide; Factory Mutual Research Corporation; current edition

E. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.; current edition

F. IBC – International Building Code, 2018

G. WH (CERT) - Certification Listings; Warnock Hersey

1.04 SUBMITTALS

A. Any submittals will be sent to Owner’s designated Project Manager.

1.05 QUALITY ASSURANCE

A. Fire Testing: Provide firestopping/smoke seal system designs which provide the required fire ratings when tested in accordance with ASTM E814.

1. Listing in the current classification or certification books of UL, FM, or ITS (Warnock Hersey) will be considered as constituting an acceptable test report.

B. Installer Qualifications: Installer shall have at least 5 years of experience installing firestop systems in buildings of similar construction to that found on this project.

C. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years experience.

1.06 ENVIRONMENTAL REQUIREMENTS

A. Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation.

PART 2 - PRODUCTS

2.01 FIRESTOPPING/SMOKE SEAL SYSTEMS

A. Manufacturers/Product Group and ICC Evaluation Service Report Number:
1. 3M Company, Inc. *Fire Protection Products* – ICC Report NER-243
2. Tremco, Inc. *Through-Penetration Fire-Stop Systems* – ICC Report ER-3198
3. United States Gypsum Company *USG Firestop Penetration Systems* - ICC Report ER-5050
4. W.R. Grace & Company *FlameSafe Products* – ICC Report ESR-1043

B. Firestopping/Smoke Seal System(s): Provide complete Firestop/Smoke Seal System(s) that conform to the requirements of Chapter 7 of the International Building Code (IBC) and are designed, tested and fire-resistance rated to resist for a prescribed period of time the spread of fire through each different type of penetration, fire rated assembly and construction type found in this Project.
1. Firestop/Smoke Seal System(s) shall be tested and listed by one of the testing agencies listed in 1.04 above.
2. The F and T rating criteria for the Firestop/Smoke Seal System(s) shall be in accordance with ASTM E814 and IBC.
3. Firestopping/Smoke Seal Exposed To View: Firestop/Smoke Seal System must either be concealed from view behind the finish; or have an appearance matching the adjacent finish appearance and be paintable; or have a suitable finished trim or escutcheon to cover the firestopping.
4. Provide firestopping/smoke seal products from the same manufacturer on any single assembly or condition, do not mix different manufacturer’s products.

C. Rock Wool: Rock wool insulation spun from slab or basalt rock; 2.8 pound density, with formaldehyde-free binder, friction fit, unfaced, conform to ASTM C665; Roxul *AFB* or approved.

PART 3 - EXECUTION

3.01 COORDINATION

A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.

B. Coordinate the timing of when to execute the work of this section with the work of other trades.

C. Coordinate firestopping/smoke seal at mechanical and electrical penetrations made by Divisions 20 through 28.

3.02 EXAMINATION

A. Verify that all penetrations and openings are completed and ready to receive the work of this section.

3.03 PREPARATION

A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter that may affect bond of firestopping material in accordance with manufacturer’s instructions.

B. Remove incompatible materials that may affect bond.

3.04 INSTALLATION

A. Select the specific firestopping/smoke seal assembly that will provide the specific fire rating required for the type of construction and conditions found and that conforms to the criteria stated in the testing agency listing.

B. Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing cracks/gaps and providing a firestop of each gap/crack in a fire-rated assembly equal to the fire rating of the assembly.

C. Where firestopping/smoke seal is exposed to view, finish to match adjacent surfaces.

3.05 CLEANING AND PROTECTION

A. Clean adjacent surfaces of firestopping/smoke seal materials.

B. Protect adjacent surfaces from damage by material installation.

3.06 FIRESTOPPING LOCATIONS

A. Install firestopping/smoke seal in all locations required by the IBC and Authorities

Having Jurisdiction.

B. Install firestopping/smoke seal at cracks, gaps or openings within and around perimeter of fire rated wall, floor or roof assemblies (refer to Drawings for location of rated assemblies).

C. Install firestopping/smoke seal around penetrations (structural, mechanical and electrical) through fire rated assemblies; coordinate with structural mechanical and electrical work.

D. Install firestopping/smoke seal wherever noted on Drawings.

END OF SECTION

SECTION 08 14 00

FLUSH WOOD DOORS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Flush Hardwood Veneer-Faced Solid Core Wood Doors pre-hung in wood frames

1.02 REFERENCES

A. All references shall be the latest adopted edition, except as noted.

B. ANSI/WDMA I.S.1-A – Architectural Flush Wood Doors (Window & Door Manufacturer's Association)

C. ASTM E90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

D. AWI - Architectural Woodwork Quality Standards; Architectural Woodwork Institute

E. IBC – International Building Code, 2021 Edition

1.03 SUBMITTALS

A. Product Data: Submit manufacturer's product literature, indicate door core materials and construction; veneer species. Submit manufacturer's product data on metal vision panel frames.

B. Shop Drawings: Illustrate door opening criteria, elevations, sizes, types, swings, undercuts required, special beveling, factory machining criteria, finishing system criteria, identify cutouts for glazing.

C. Door Schedule: Provide door, frame, and hardware schedule on format matching SDI 111-D in accordance with Door Schedule included on Drawings.

D. Samples – Hardwood Veneer: Submit samples of hardwood veneer specified, 8 x 11 x 1/4 inch in size illustrating species, wood grain and finish system.

E. Test Report: Submit copy of test report form independent testing laboratory certifying the STC rating of the sound rated doors.

1.04 QUALITY ASSURANCE

A. Perform work in accordance with ANSI/WDMA I.S.1-A.

B. Manufacturer: Company specializing in manufacturing the products specified in this section with minimum ten years of experience.

1.05 DELIVERY, STORAGE, AND PROTECTION

A. Accept doors on site in manufacturer's packaging. Inspect for damage.

B. Protect doors with individual resilient packaging. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer. Break seal on site to permit ventilation.

1.06 PROJECT CONDITIONS

A. Coordinate the work with door opening construction, door frame and door hardware installation.

1.07 WARRANTY

A. Provide manufacturer’s warranty for the following term:
1. Interior Doors: Life of installation.

B. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. LyndenDoor

B. Oregon Door

C. Vancouver Door (Puyallup)

D. VT Industries

E. Substitutions: Refer to Section 01 60 00 - Product Requirements.

2.02 FLUSH WOOD DOORS

A. Flush Wood Doors: Bonded Core 5 or 7 ply doors conforming to ANSI/WDMA I.S.1-A and the following:
1. Grade: WDMA Premium Grade
2. Duty Level: WDMA Extra Heavy Duty
3. Stiles and rails bonded to core
4. Core: Structural composite lumber core (engineered wood) or particleboard cores.
    a. Hardware Blocking – Particleboard Core: Provide solid wood blocking for hardware attachment (not required for structural composite lumber core).

5. Stiles And Rails: 1 inch minimum thickness solid hardwood, finger-jointing not allowed; vertical edge species solid hardwood matching face veneer species.
6. Door Facing: Hardwood veneer.

B. Sound-Rated Doors (Where Noted On Drawings): STC-42 minimum Sound Transmission Class when tested in accordance with ASTM E90.

C. Frames: Solid Oak or similar so as to match existing adjacent hardwood frames.

2.03 MATERIALS

A. Door Face Veneer: Hardwood veneer suitable for transparent finish:
1. Hardwood Veneer Species: Oak to match existing adjacent.
2. Veneer Cut: Plain sliced.
3. Leaf Matching: Book match veneer leafs, balance matched on width of door face.

2.04 FABRICATION

A. Fabricate doors in accordance with ANSI/WDMA I.S.1-A requirements.

B. Fabricate fire rated doors in accordance with fire testing agency requirements. Attach metal fire rating label to door.

C. Vertical Exposed Edge of Stiles - Solid Edge: Of same species as veneer facing.

D. Bond edge banding to cores.

E. Bevel strike edge of door.

F. Coordinate size of door and edge clearances with frames specified in Section 08 11 00 and hardware specified so that field planing door edges for proper fit is not required.

G. Factory machine doors for finish hardware specified in accordance with hardware requirements and dimensions. Do not machine for surface hardware.

H. Cut out openings for vision panel frames or louvers where indicated on drawings..

I. Factory fit doors for frame opening dimensions.

J. Provide edge clearances in accordance with AWI 1300.

2.05 FACTORY FINISH

A. Transparent Finish: Factory finish doors in accordance with ANSI/WDMA I.S.1-A Premium Grade:
1. Finish System: TR-6 Catalyzed Polyurethane, including reduced vinyl sealer washcoat (if required), washcoat, stain, vinyl sealer, sanding with

220 grit, first topcoat and second topcoat; satin finish. UV Curable Polyester or Urethane finish systems are also acceptable.

PART 3 - EXECUTION

3.01 COORDINATION

A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.

3.02 EXAMINATION

A. Inspect frames and existing conditions before starting work.

B. Verify that frames, opening sizes and tolerances are acceptable.

C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

D. Beginning of installation indicates acceptance of frame installation and conditions.

3.03 INSTALLATION

A. Install doors in accordance with manufacturer's instructions and WDMA installation requirements.
   1. Install fire-rated doors in accordance with NFPA 80 requirements and fire listing.

B. Gap between bottom of door and floor shall not exceed 5/8 inch on non-rated doors; on fire rated doors gap shall not exceed code and fire listing requirements.

C. Coordinate installation of glass and glazing.

3.04 ADJUSTING

A. Adjust doors for smooth and balanced door movement.

B. Adjust closers for full closure.

3.05 SCHEDULE – Refer To Drawings

END OF SECTION

SECTION 09 11 00

NON-LOAD BEARING WALL FRAMING

PART 1 - GENERAL

1.1 REFERENCES

A. American Society for Testing and Materials (ASTM).
   1. C 645 - "Specification for Non-Load (Axial) Bearing Steel Studs, Runners (Track), and Rigid Furring Channels for Screw Application of Gypsum Board."
   2. C 754 - "Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Wallboard, Backing Board, or Water-Resistant Backing Board."

B. American Welding Society (AWS).
   1. D1.3 - "Specification for Welding Sheet Steel in Structures."

C. Metal Lath/Steel Framing Association (MLSFA).
   1. "Specification for Metal Lath and Furring."

PART 2 - PRODUCTS

2.1 MATERIALS

A. All supplied by one manufacturer, U.S. Gypsum Co., Western Metal Lath, Angeles Metal System unless otherwise specified.

B. Materials shall comply with ASTM C 645.

C. Metal Studs: 54 mil minimum galvanized steel, non- bearing, with punched webs and perforated flanges to receive screws.

D. Wide Flange Studs: 54 mil galvanized steel, with punched webs and perforated flanges to receive screws; paint with rust inhibitive primer.

E. C-Studs: 54 mil galvanized steel, with punched webs and perforated flanges to receive screws.

F. Runner Tracks: 54 mil galvanized steel, un-punched minimum.

G. Backing Plates: Steel sheet or plate of gages or thickness required or scheduled, galvanized or painted with rust inhibitive primer.

H. Channels: 54 mil steel, 3/4 inch furring channels and 1-1/2 inch runner channels, painted.

I. Metal Furring: Roll formed 18 mil galvanized steel, hat shaped channels.

J. Fasteners: To suit stud, track, or channel gage.
1. Sheet Metal Screws:
a. 3/8 inch Type S pan head for fastening 30 mil material.
b. 1/2 inch Type S-16 pan head cadmium plated for fastening wide flange studs to door frame clips, and similar 54 mil material.
2. Powder-Actuated Devices: 1/4 inch diameter with 1-1/2 inch concrete penetration as specified in Section 05500.
3. Concrete Nails: Case hardened stub nails 3/4 inch long.

K. Wire:
1. 18 gage soft annealed galvanized steel tie wire.
2. 10 gage soft annealed galvanized steel hanger wire.
3. 8 gage soft annealed galvanized steel hanger wire.

L. Welding Electrodes: AWS low hydrogen type, as required.

M. Miscellaneous Accessories: Manufacturer's standard, suitable for the intended use.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install Work in accordance with applicable requirements of MLSFA, AWS, and ASTM C 754.

B. Limit tolerance for bow and alignment to 1/8 inch in 10 feet.

C. Use wide flange studs at partitions supporting plywood, at electric panels, backing plates, fire extinguisher cabinets, and free ends of partitions.

D. Use metal studs at interior partition framing supporting gypsum board not requiring wide flange studs.

E. Use wide flange studs at heads and jambs of door frames and at borrowed light openings. Stiffen as shown.

F. Furred Spaces: Provide metal furring or furring channels at 16 inch centers vertically or as shown. Fasten at top and bottom, and tie to horizontal furring channels at 4 foot centers. Fasten furring brackets to concrete with powder actuated devices or concrete nails.

G. Partition Stiffeners: Partition Stiffeners: Provide horizontal furring channel stiffeners at 5 foot centers maximum vertically at all metal stud load bearing walls and in non-load bearing walls that have sheathing on one side only.

H. Provide backing plates as scheduled and detailed, of sufficient length to fasten each end to metal framing. Provide backing plate support for each point of fastening of any unit to be anchored.

I. Fasten runner tracks at 2 foot intervals and 6 inches from ends.
   1. To Concrete Slab: With powder actuated devices or concrete nails.
   2. To Steel Framing: By welding.

I. Secure studs to runner tracks with sheet metal screws to suit stud gage.

K. Provide welded, bolted, or screwed connections as shown or required.

L. Partition Bracing: For partitions exceeding 10 feet in length provide two 10 gage wires, one each way perpendicular to plane of partition, at 5 foot centers maximum. Splay at 45 degrees vertically.

M. Install accessories and miscellaneous specialties to plumb, true, and level lines, including other materials furnished and located as part of the Work of other Sections.

N. Ceiling Furring:
   1. Space hanger wires at 4 feet maximum centers connected to wood framing with 3/8 inch by 3 inch long tie wire screw eyes. Space runner channels at 4 foot centers and saddle tie hanger wire top and bottom with 2 loops secured with no less than 3 turns around itself.
   2. Provide hangers within 6 inches of ends of runner channels. Provide runner channels within 6 inches of walls and partitions to support ends of metal furring.
   3. Lay out runner channels transverse to direction of joists where spacing permits.
   4. Space metal furring for gypsum board at 16 inch centers. Saddle tie to runner channels with 2 loops of tie wire secured with no less than 3 turns around itself.

END OF SECTION

SECTION 09 29 00

GYPSUM BOARD ASSEMBLIES

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Interior Gypsum Board (GWB)

B. Finishing Gypsum Board

1.02 REFERENCES

A. All references shall be the latest adopted edition.

B. ASTM C475 - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board

C. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board

D. ASTM C1002 - Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs

E. ASTM C1177 - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing

F. ASTM C1178 - Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel

G. ASTM C1278 - Standard Specification for Fiber-Reinforced Gypsum Panel

H. ASTM C1280 - Standard Specification for Application of Gypsum Sheathing

I. ASTM C1396 – Standard Specification for Gypsum Board

J. ASTM D3273 – Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber

K. GA-214 - Recommended Levels of Gypsum Board Finish; Gypsum Association

L. GA-216 - Application and Finishing of Gypsum Board; Gypsum Association

1.03 SUBMITTALS

A. Product Data: Submit manufacturer's product data for each proposed product sufficient to show compliance with each product specified.

B. Samples: Submit 6 inch long sample of each different corner metal and trim specified.

1.04 QUALITY ASSURANCE

A. Applicator Qualifications: Company specializing in performing the work of this section with minimum 5 years of consecutive successful experience.

1.05 REGULATORY REQUIREMENTS

A. Conform to applicable codes and installation requirements for fire rated assemblies indicated on drawings.

1.06 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in original and unopened packages, containers, or bundles, with brand names and manufacturer's labels intact and legible.

B. Store materials in dry location, fully protected from weather and direct exposure to sunlight.

C. Stack gypsum board products flat and level, properly supported to prevent sagging or damage to ends and edges.

D. Store corner bead and other metal and plastic accessories to prevent bending, sagging, distortion, or other mechanical damage.

1.07 PROJECT CONDITIONS

A. Environmental Conditions: Establish and maintain environmental conditions for applying and finishing gypsum board to comply with ASTM C840 requirements or gypsum board manufacturer's recommendations, whichever are more stringent.

B. Ventilation: Provide controlled ventilation during joint finishing operations, to eliminate excessive moisture. Avoid drafts during hot, dry weather to prevent finishing materials from drying too quickly.

PART 2 - PRODUCTS

2.01 GYPSUM BOARD MATERIALS (GWB)

A. Interior Gypsum Board (GWB): ASTM C1396; Type X, fire rated, UL or WH tested and listed; sizes to minimize joints in place; ends square cut.
   1. Thickness: 5/8 inch.

2. Edges: Tapered.
3. Length: Longest lengths possible for least number of butt joints.
4. Radius/Curved Walls: Use any thickness gypsum board that will bend to the required radius.
   a. Single Layer Minimum Thickness: 5/8-inch.
   b. 1/4-inch thick board requires 3 layers.
   c. 3/8-inch thick board requires 2 layers.

2.02 ACCESSORIES

A. Acoustic Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board; USG *Sheetrock Acoustical Sealant* or similar.

B. Outside Square Corners: Galvanized metal corner bead factory clad with paper tape; Beadex *Microbead* or approved.

C. Angled Corners: Beadex *B1 Flex 100' Tape-On Flexible Corner Bead*, or approved.

D. J-Mold (Where GWB Abuts Dissimilar Material And Is Exposed To View): Galvanized metal J-shaped trim factory clad with paper; Beadex *B9J Tape-On "J" Trim* or approved.
   1. GWB Abuts Windows: Provide temporary heavy weight cardboard strip 3 inches wide between trim and face of window frame to protect frame from dirt and damage.

E. Control Joint: GA 216; roll-formed metal control joint with removable strip, similar to USG *No. 93,* or approved.

F. Joint Materials: Provide products by manufacturer of gypsum board. Conform to ASTM C475 and as recommended by gypsum board manufacturer for project conditions.
   1. Interior Applications: Ready-mixed vinyl-based joint compound
      a. Taping Compound: Type specifically formulated for embedding tape and accessories and for pre-filling.
      b. Topping Compound: Type specifically formulated for finishing drywall over taping compound.
      c. Joint Tape: Manufacturer's standard paper reinforcing tape.

G. Primer/Surfacer: *Sheetrock Brand Primer-Surfacer Tuff-Hide* manufactured by U.S. Gypsum.

H. Acoustical Insulation: Owens-Corning, *Noise Barrier Batts*, ASTM C 665, 3 1/2" thick.

I. Screws:
   1. Interior Application: Conform to ASTM C1002; bugle-head steel, self-drilling type, black phosphate finish.
   2. Exterior Application and Tile Backer Board: Conform to ASTM C1002;

bugle-head steel, self-drilling type, provide with yellow zinc corrosion resistant coating.

PART 3 - EXECUTION

3.01 COORDINATION

A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.

B. Coordinate location of framing and backing for supporting ends of GWB and control joints with Section 06 10 00.

C. Inspect finished surfaces with Section 09 90 00 painting applicator and project superintendent, mark areas that require additional finishing.

3.02 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

B. Confirm that the framing is straight, is within specified tolerances and meets minimum allowable deflection requirements.

C. Confirm that utility rough-in fits properly within framing width and will not prevent GWB from fitting tight to face of framing members.

D. Confirm that there is adequate temporary heat and light.

E. Beginning of installation indicates acceptance of framing and conditions.

3.03 FLOOR PROTECTION

A. Protect concrete floors from contact with GWB dust, taping mud and primer/surfacer using heavy paper or other method.

3.04 GYPSUM BOARD INSTALLATION

A. Install GWB in conformance with ASTM C840, C1280, GA-216, and manufacturer's installation instructions.
   1. Install in longest lengths possible for minimum number of joints.
   2. Install to minimize butt end joints, especially in highly visible locations.
   3. Comply with the installation requirements of fire rated assemblies listed on the Drawings.

B. Install full width panels with cut pieces only at top of wall (no "belly bands").

C. Place wrapped edges adjacent to one another; do not place cut edges or butt ends adjacent to wrapped edges.

D. Maintain 1/4 inch maximum gap between bottom of gypsum board and floor.

E. Acoustic Sealant: Install at perimeter of all sound walls in accordance with manufacturer's instructions and as follows:
   1. Place continuous bead at perimeter of each layer of gypsum board.
   2. Seal around all penetrations by conduit, pipe, ducts, rough-in boxes, and at other similar penetrations.

F. Run gypsum board full depth behind steel door and relight frames.

3.05 INSTALLATION OF TRIM AND ACCESSORIES

A. Corner Beads: Install at external corners in a single full length piece free of butt joints, using longest practical lengths, no short pieces; place into a solid bed of soft joint compound for secure installation.
   1. Align bead straight and plumb.
   2. Align juncture with other corner bead flush.

B. J-Shaped Edge Trim: Install at any exposed to view location where gypsum board abuts any dissimilar material or ends with exposed edge (around window frames, exposed structure, etc.).
   1. Install heavy cardboard continuous at window perimeter to protect frame from dirt and damage.

C. Control Joints: Place control joints consistent with lines of building spaces and as follows:
   1. As determined by installer to avoid cracking in finished surfaces, generally not more than 30 feet apart on walls and ceilings over 50 feet long. Location and layout subject to Owner’s approval; review with Owner prior to starting installation.

3.06 JOINT TREATMENT

A. Finish gypsum board (whether exposed to view or not) in accordance with GA-214 to the following minimum level of finish:
   1. Painted Finish Exposed To View: Level 4, substitute a coat of Primer/Surfacer (15 – 20 wet mil thickness) in lieu of skim coating with joint compound; sand surface of Primer-Surfacer smooth.
   2. Surfaces in Mechanical/Electrical and Storage Rooms: Level 4.
   3. Concealed from View with Thick Adhered Surface Finish (sheet vinyl or rubber base, plastic sheet wainscot, etc.): Level 3.
   4. Concealed from View without Surface Finish Above Suspended Lay-In Ceilings: Level 1.

B. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
   1. Feather coats of joint compound so that camber is maximum 1/32 inch.

3.07 APPLICATION – PRIMER/SURFACER

A. Apply Primer/Surfacer to all surfaces exposed to view in accordance with manufacturer's installation instructions and at recommended application rate to achieve GA-214 Level 4 appearance, free of visible tape joint lines after finish painting is completed.
   1. Spray-apply Primer/Surfacer to 15 - 20 mil wet film thickness applied in two separate passes at 90 degrees to each other for proper coverage.
   2. Sand surface of Primer/Sealer lightly after it has dried to eliminate any unwanted stipple pattern or texture.

B. After application of Primer/Sealer, carefully inspect walls and mark any defects in surface finish.
   1. Fill/sand defective areas in surface finish and recoat with primer/surfacer.

3.08 INSPECTION WITH PAINTER AND PROJECT SUPERINTENDENT

A. Coordinate an inspection walkthrough of all finished GWB surfaces with the painter and project superintendent; mark any defects in the surface finish.
   1. Fill/sand defective areas in surface finish and recoat with primer/surfacer.

3.09 TOLERANCES

A. Gap Between Bottom Of GWB and Floor: 1/4 inch Maximum.

B. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.

C. Butt Joint Finishing: Not readily visible under the normal lighting conditions found for any given area/surface.

D. Finishing Tolerances: All exposed surfaces shall be smooth and free from visible ridges, waves, ripples, holes, defects, delamination, roughness, depressions, screw pops, etc. Taped joints shall not be visible after finish paint application.

E. Final texture: Final texture should be light "orange peel" to match as closely as possible to existing adjacent.

3.10 CLEAN UP

A. Remove all excess gypsum board and finishing materials from the site.

B. Remove gypsum board scraps and dust from all concealed spaces including interior spaces of wall framing.

C. Remove gypsum dust, taping mud and primer/sealer completely from window frames, door frames, subfloor surfaces and any surface/material exposed to view.
   1. Subfloor cleanliness/condition shall conform to floor covering installation requirements.

3.11 WORKMANSHIP

A. Gypsum wallboard shall be installed and finished using the best workmanship, including the following:
   1. No damaged board or paper face.
   2. Ends centered on framing.
   3. GWB tucked full depth behind hollow metal door frames.
   4. Gap at bottom of GWB 1/4 inch or less.
   5. Cut-outs for outlets and devices cut neatly with saw or router.
   6. GWB fastened tight to face of studs to eliminate screw pops.
   7. Acoustic sealant consistently applied to all openings and perimeters.
   8. All screws that do not engage framing removed.
   9. Taped joints full bedded in taping compound and free of air pockets.
   10. Butt joints finished with minimal thickness and tapered out for flat appearance.
   11. Taped joints smooth and flat so as to disappear after painting.
   12. Paper face not roughened by sanding.
   13. Bottom of GWB behind rubber base and coved base properly finish smooth and free of roughness.

B. Gypsum wallboard installed and finished with improper or poor workmanship shall be removed and replaced at Contractor's expense.

3.12 FIELD QUALITY CONTROL

A. Contractor Quality Control: Employ/assign quality control personnel to monitor the work of this section for conformance to the requirements of this section and to good construction practices.
   1. Contractor is solely responsible for managing and controlling the quality of the work and conformance with the requirements of this Section.

B. Schedule of Required Inspections by Contractor; confirm installation and workmanship are as shown/specified:
   1. Inspect framing for conformance to specified surface tolerances.
   2. Confirm that batt insulation and sound insulation are installed in the proper locations and conform to specification requirements.
   3. Inspect GWB installation.
   4. Inspect trim installation.
   5. Inspect taping and finish application.
   6. Inspect finish on bottom of walls with rubber base and coved base.
   7. Inspect finished GWB surfaces after primer is applied with painter and GWB finisher to identify any finishing defects requiring correction prior to painting.

END OF SECTION

SECTION 09 51 00

ACOUSTICAL CEILINGS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Suspended Acoustical Ceiling Systems

1.02 PERFORMANCE REQUIREMENTS

A. Provide suspended ceiling systems conforming to the following performance requirements:
   1. Materials, Design And Installation: Conform to the applicable requirements of following reference standards (latest adopted edition):
      a. International Building Code (IBC)
      b. ASCE Chapter 13 for Seismic Design Requirements for Nonstructural Components
      c. ASTM C635
      d. ASTM C636
      e. ASTM E580
      f. CISCA
      g. NWCB Technical Bulletin No. 401
      h. Suspended Ceiling System manufacturer's installation instructions and requirements for the specific products specified in this Section.
   2. Seismic Restraint Design: Conform to the requirements of the IBC for the seismic design category and geographic region in which the project is located by either prescriptive requirements or an engineered design:
      a. Prescriptive Requirements: Conform to the prescriptive requirements found in NWCB Technical Bulletin No. 401.
      b. Engineered Design: Engage a professional engineer experienced in the design of suspended ceiling systems and currently licensed in Washington State to provide an engineered design of the seismic restraint specifically for the suspended ceiling system required on this project conforming to the IBC and any applicable local or State code requirements. Engineered design shall be shown on the shop drawings and the drawings stamped and signed by the engineer.
   3. Work of Other Trades: Coordinate with and accommodate the work of other trades wherever conflicts exist with the suspended ceiling system and/or associated seismic restraint components.
      a. Review work of other trades in advance of installation and resolve conflicts prior to fabrication and installation.
      b. Provide additional support and seismic restraint components as required to allow suspended ceiling system to be installed around work of other trades.

c. Provide additional hangar wire and anchors to building structure as required to provide support for work of other trades, including any lighting or mechanical components, which are intended to be supported on, or interface with, the suspended ceiling system in conformance with requirements of referenced standards.

1.03 REFERENCES

A. All references shall be the latest adopted edition, except as noted.

B. ASTM C635 - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.

C. ASTM C636 - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.

D. ASTM E580 - Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Moderate Seismic Restraint.

E. CISCA – Guidelines for Seismic Restraint for Direct-Hung Suspended Ceilings Assemblies (Seismic Zones 3 & 4)

F. IBC - International Building Code

G. NWCB Technical Bulletin No. 401 – Suspension Systems for Acoustical Lay-In Ceilings (published by the Northwest Wall & Ceiling Bureau)

1.04 SUBMITTALS

A. Product Data: Provide data on suspension system components and on each different type of acoustical ceiling units.

B. Shop Drawings: Submit design of suspended ceiling system including the seismic restraint design conforming to the performance requirements specified herein.

C. Samples: Submit two samples 4 x 6 inch in size illustrating material and finish of each different acoustical unit.

1.05 QUALITY ASSURANCE

A. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum five years documented experience.

B. Installer Qualifications: Experienced in performing work of this Section with a minimum of five years documented experience in the installation of work similar to that required for this project.

1.06 ENVIRONMENTAL REQUIREMENTS

A. Maintain uniform temperature and maximum humidity as recommended by manufacturer prior to, during, and after acoustical unit installation.

1.07 PROJECT CONDITIONS

A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.

B. Install acoustical units after interior wet work is dry and building temperature and humidity has been stabilized at normal levels for at least one week.

1.08 EXTRA MATERIALS

A. Provide additional acoustical ceiling panels in original unopened containers of each different ceiling panel type specified for Owner's maintenance use.
   1. Quantity: Provide 1 carton of each different ceiling panel type.

PART 2 - PRODUCTS

2.01 SUSPENDED ACOUSTICAL CEILING TYPES (ACT)

A. As noted on Finish Schedule in the Drawings

2.02 SUSPENSION SYSTEM – GENERAL USE

A. Suspension Systems – Match existing system.

B. Perimeter Moldings/Wall Angle: Same material and finish as suspension system.
   1. At Exposed Grid: Provide 7/8 inch wide wall angle molding matching color of suspension system.

C. Materials for Lateral Force Bracing: Conform to performance requirements specified herein.
   1. Perimeter Seismic Clip: Chicago Metallic products similar to Armstrong BERC2 – 2” Beam End Retaining Clip; install at end of each main runner and cross runner where they abut wall.

D. Accessories:
   1. Support Channels, Braces, Struts and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness and deflection requirement specified.
   2. Trapeze Bars: Provide back to back 1-1/4” cold-rolled steel channels or Unistrut trapeze support channels supported from structural members to span below non-structural work by other trades that prevents installation of support wires plumb, do not support ceiling from non-structural items.

a. Gauge, size and configuration of cold-rolled steel channels or Unistrut channel shall be as required to limit deflection to less than L/360 when with 250 pound load on each hanger.

3. Hangar Wire Support Anchors: Conform to Performance Requirements specified herein. Select the following methods as appropriate for conditions/construction:
   a. Concrete Structure:
      1) Carbon steel wedge anchor with eye for hangar wire; 1/4 inch diameter (minimum), similar to Rawl Rawl-Stud or Redhead TruBolt Wedge Anchors.
      2) Hangar wires or steel inserts cast into concrete.
   b. Concrete or Steel Structure: Powder actuated pin type fasteners with ICC-ES approval for seismic applications; manufactured by Hilti, Ramset or equal.

PART 3 - EXECUTION

3.01 COORDINATION

A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.

B. Coordinate layout, placement and installation of HVAC ducts/grills, piping and equipment to avoid conflicts with ceiling installation.

C. Coordinate the weight and location of HVAC terminals, grills or other services that are ceiling supported.

D. Coordinate the weight, layout, placement and installation of lighting fixtures, fire alarm devices, speakers, etc. to avoid conflicts with ceiling installation and to allow installation of required support wires and anchors.

E. Coordinate required tolerances for wall framing and GWB tape joint flatness to avoid gaps behind perimeter molding.

F. Schedule ceiling installation to follow completion of dust producing work, above-ceiling work and interior painting, but prior to installation of finish flooring.

3.02 EXAMINATION

A. Inspect building conditions and work by other affecting ceiling installation before starting work.

B. Verify that walls are straight and within flatness tolerance so that perimeter molding will lie flat against wall.

C. Verify that mechanical, electrical and other above ceiling items are mounted high enough to allow installation of ceiling at specified height; do not lower any ceiling without consulting the Owner first.

D. Verify that layout of hangers will not interfere with other work.

E. Do not start installation until conflicts with work by others have been corrected.

F. Start of installation indicates installer's acceptance of conditions and work by others affecting the ceiling installation.

3.03 PREPARATION - SUSPENSION SYSTEM

A. Lay out suspended ceiling grid in each room as shown on the Drawings prior to starting installation.
   1. Consult with Owner on any rooms where proposed ceiling layout cannot be accomplished.
   2. Consult with Owner on any rooms where proposed ceiling layout will result in edge borders of less than 6 inch width and adjust ceiling layout as directed.
   3. Border tile less than 6 inches wide or T-bar laying on or immediately adjacent to wall angle are not acceptable unless specifically approved by the Owner.

3.04 INSTALLATION - SUSPENSION SYSTEM

A. Install suspension system in accordance with ASTM C636, ASTM E580, CISCA, NWCB Technical Bulletin No. 401 and the manufacturer's installation instructions and as supplemented in this Section.
   1. Suspension system shall be installed as a flat, level plane, with runners aligned straight and square with building lines.
   2. Support ceiling system, including integral mechanical and electrical components, so that deflection of any member or the whole does not exceed 1:360.

B. Install support anchors for each hanger/brace wire securely to floor/roof structural member above.
   1. Locate so that hangar wires hang plumb.
   2. Perform random field tests on the pull-out value of powder actuated pins to confirm that the pin and charge being used conforms to the required value.

C. Locate ceiling grid on room axis according to reflected ceiling plan.

D. Coordinate the location of hangers with other work.

E. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.

F. Where ducts or other equipment obstruct the regular spacing of hanger wire in plumb alignment, install trapeze bar channel(s) under obstruction to span between closest hangar wires and provide a bridge for support of hangar wire at required spacing.

G. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.

H. Ceiling Supported Loads: Add supplementary hanger wire located within 6 inches of each corner to support light fixtures or other ceiling grid supported loads, or support components independently.

I. Isolate hangar wires away from ducts and/or equipment that could conduct vibration, movement or noise into the ceiling grid or cause it to move slightly.

J. Do not eccentrically load system or induce rotation of runners.

K. Lateral Force Bracing: Conform to the Performance Requirements specified herein.

L. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
1. Fasten securely to wall at spacing recommended by manufacturer.
2. Use longest practical lengths for minimum number of joints possible.
3. Miter corners neatly, align edges flush and free of gaps or misfit.
4. Do not cut molding to fit crooked walls (crooked walls require correction).

M. Light Fixtures and Mechanical Services: Provide support in accordance with NWCB Technical Bulletin No. 401.

N. Seismic Separation Joints: Provide in accordance with NWCB Technical Bulletin No. 401; coordinate location/layout with the Owner prior to installation.

3.05 INSTALLATION - ACOUSTICAL CEILING UNITS

A. Install acoustical units in accordance with manufacturer's installation instructions.
1. Install units after above-ceiling work is complete.

B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

C. Install acoustical units level, in uniform plane, and free from twist, warp and dents.

D. Cutting Acoustical Units:
1. Cut accurately to fit irregular grid and perimeter edge trim.
2. Make field cut edges of same profile as factory edges.
3. Make field cuts as required to accommodate work of other trades.

END OF SECTION

SECTION 09 65 00

RESILIENT FLOORING AND BASE

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Resilient Base (VRB)
B. Luxury Vinyl Tile (LVT)

1.02 REFERENCES

A. Standard Specifications as per Manufacturer noted in documents

1.03 SUBMITTALS

A. Product Data: Submit manufacturer's product data sheet for each of the following (subject to Owner approval during submittal review):
   1. Resilient Base and Luxury Vinyl Tile
   2. Adhesives for each product
   3. Cleaning Products

B. Samples: Submit 2 color samples of each color selected for each item specified.

1.04 DELIVERY, STORAGE AND PROTECTION

A. Protect roll materials from damage. Store materials in accordance with manufacturer's instructions.

1.05 ENVIRONMENTAL REQUIREMENTS

A. Maintain temperature in storage area between 55 degrees F and 90 degrees F.

B. Maintain building temperature at 65 degrees F for 2 weeks minimum prior to installation.

C. Store materials for not less than 48 hours prior to installation in area of installation at a temperature above 65 degrees F to achieve temperature stability. After flooring has been installed, maintain conditions above 60 degrees F.

1.06 EXTRA MATERIALS

A. For each color/pattern of floor material, provide one box of floor tile for Owner's maintenance use.

PRODUCTS

2.02 Specific Products manufacturer, style and color are noted on the Finish Schedule

A. Substitutions; Pre-Bid approval required.

2.03 RESILIENT FLOOR AND BASE

A. See drawings for selections of resilient floor, base and colors.

2.04 ACCESSORIES

A. Subfloor Filler: Cementitious latex type not adversely affected by moisture or alkali as recommended by flooring and adhesive materials manufacturer for application to concrete slab on grade; the following manufacturers/products are acceptable:
1. Ardex *V1200*
2. Mapei *PRP110*

B. Adhesives and Sealants: Use ONLY premium (best) quality low VOC adhesives and sealants approved by flooring/base/accessory manufacturer and Owner for each different type of flooring and substrate.

C. Primers: Low VOC primer recommended by flooring manufacturer for each different floor substrate and condition.

D. Transition/Reducer Strips: Rubber in color matching rubber base, profile required to accommodate flooring and condition, Johnsonite or approved.

PART 2 - EXECUTION

3.01 COORDINATION

A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.

B. Schedule flooring installation to follow drying of floor leveling compound and completion of interior painting.

3.02 EXAMINATION

A. Verify that sub-floor surfaces are ready for resilient flooring installation and within the limits recommended by resilient flooring manufacturer and adhesive materials manufacturer by testing the moisture emission rate, alkalinity and any other tests in manner recommended by manufacturers.

B. Verify that sub-floor surfaces are flat within tolerances specified in Section 03 30 01 using a 10 foot long straight edge.

C. Examine sub-floors prior to installation to determine that surfaces are smooth and free from cracks, holes, ridges, and other defects that might prevent adhesive bond or impair durability or appearance of the flooring material.

D. Verify that wall surfaces are smooth and flat within tolerances specified in Section 09 29 00; are free of voids, openings or gaps; are dust-free, and are ready to receive resilient base.

E. Inspect sub-floors prior to installation to determine that surfaces are free from curing, sealing, parting and hardening compounds; residual adhesives; adhesive removers; oil, grease and other foreign materials that might prevent adhesive bond.
   1. Visually inspect for evidence of moisture, alkaline salts, carbonation, dusting, mold, or mildew.

F. Verify that sub-floor surfaces are free of all construction dirt, gypsum dust, taping mud, paint, sand, etc.

G. Verify that required floor-mounted utilities (drains, electrical outlets, etc.) are in correct location and installed to proper height to flush out with flooring material.

H. Report conditions contrary to contract requirements that would prevent a proper installation. Do not start installation until substrate/sub-floor meets requirements of material and adhesive manufacturers.

I. Failure to call attention to defects or imperfections will be construed as acceptance and approval of the sub-floor. Beginning of installation indicates acceptance of substrate/sub-floor and conditions as conforming to all requirements.

3.03 PREPARATION

A. Sub-floor surface shall be smooth and free of waviness, ridges, bumps, depression or other irregularities that will be visible after resilient flooring is laid.
   1. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.

B. Prohibit traffic until filler is cured.

C. Vacuum clean substrate thoroughly; sand and dirt particles trapped under floor tile will require replacement of flooring.

D. Apply primer if recommended by flooring material or adhesive manufacturers for product or substrate/subfloor conditions.

3.05 INSTALLATION – RESILIENT BASE

A. Install base in accordance with manufacturer’s installation instructions to properly prepared substrate.

B. Install base in continuous, unbroken lengths with joints at inside corners only.

C. Miter or cope internal corners for tight, hairline joint; at external corners, 'V' cut back of base strip to 2/3 of its thickness and fold.

D. Tightly bond base to vertical substrate with continuous contact at horizontal and vertical surfaces
   1. Top of base shall fit tight to wall, free of open crack or lack of adhesion.

E. Scribe and fit to door frames and other interruptions.

F. Install base on casework toe spaces and exposed ends.

G. Install base behind removable casework, equipment or any other non-permanent item.

3.06 PROTECTION OF FINISHED WORK

H. Prohibit traffic on resilient flooring for 48 hours after installation.

I. Protect flooring from any marring or damage resulting from construction operations.

3.07 CLEANING AND SEALING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Luxury Vinyl Tile Flooring: Clean, and prep flooring products in accordance with manufacturer's instructions.

C. Cleaned and prepped flooring shall have consistent appearance and sheen, and be free of trapped dirt, stains, scuff marks, scratches or discoloration.

END OF SECTION

SECTION 09 68 00

CARPET TILE

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Modular Carpet Tile

1.02 REFERENCES

A. All reference shall be the latest adopted edition.

B. CRI 104 - Standard for Installation of Commercial Textile Floorcovering Materials; Carpet and Rug Institute.

1.03 SUBMITTALS

A. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.

B. Shop Drawings: Indicate seaming plan, method of joining seams, direction of carpet pile and pattern, location of edge moldings.

C. Samples: Submit two samples actual size illustrating color and pattern for each carpet material and color specified.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in installing carpet with minimum five years experience and approved by carpet manufacturer.

1.05 ENVIRONMENTAL REQUIREMENTS

A. Store materials in area of installation for minimum period of 24 hours prior to installation or as required by manufacturer.

B. Maintain minimum 70 degrees F ambient temperature 72 hours prior to, during and 24 hours after installation.

1.06 EXTRA MATERIALS

A. Provide 1 carton of carpet tile of each carpet type matching selected color.

PART 2 - PRODUCTS

2.01 CARPET

A. Modular Carpet Tile: See Drawings for manufacturer of Modular Carpet Tile, size, color and pattern.

2.02 ACCESSORIES

A. Subfloor Filler: Cementitious latex type not adversely affected by moisture or alkali as recommended by flooring and adhesive materials manufacturer for application to existing subfloor; gypsum based fillers are not acceptable. The following manufacturers/products are acceptable:
   1. Ardex *V1200*
   2. Mapei *PRP110*

B. Transition/Edge Strips: Rubber in color matching rubber base, profile required to accommodate flooring and condition, Johnsonite or approved.

C. Primer and Adhesives: Lok-Dots as manufactured by Shaw Contract Group.

D. Seam Sealer: Type recommended by manufacturer for each specific carpet and application to provide warranty.

PART 3 - EXECUTION

3.01 COORDINATION

A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.

B. Schedule flooring installation to follow drying of floor leveling compound and completion of interior painting.

3.02 EXAMINATION

A. Verify that sub-floor surfaces are smooth and flat within industry wide tolerances and are ready to receive carpet.

B. Verify that sub-floor surfaces are ready for carpeting installation and within the limits recommended by carpet manufacturer and adhesive materials manufacturer by testing the moisture emission rate and alkalinity and any other tests in manner recommended by manufacturers.

C. Inspect sub-floors prior to installation to determine that surfaces are free from curing, sealing, parting and hardening compounds; residual adhesives; adhesive removers; oil, grease and other foreign materials that might prevent adhesive bond.
   1. Visually inspect for evidence of moisture, alkaline salts, carbonation, dusting, mold, or mildew.

D. Verify that required floor-mounted utilities are in correct location and installed to proper height to receive carpeting.

E. Verify that sub-floor surfaces are free of all dirt, gypsum dust, taping mud, paint, sand, etc.

F. Do not start installation until substrate/subfloor meets requirements of material and adhesive manufacturers.

G. Beginning of installation indicates acceptance of subfloor and conditions and full responsibility for the completed installation.

3.03 PREPARATION

A. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler.

B. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is cured.

C. Clean subfloor thoroughly.
D. Take measures to protect walls, door frames and finish surfaces from damage during movement of carpet rolls and installation.

3.04 INSTALLATION - GENERAL

A. Install carpet in strict accordance with manufacturer's installation instructions and CRI 104.

B. Lay out carpet tile with pile running as directed by the Owner.
1. Align run of pile in same direction as anticipated traffic and in same direction on adjacent pieces.
2. Locate change of color or pattern between rooms under door centerline.
3. Provide monolithic color, pattern, and texture match within any one area.

C. Cut and fit carpet around interruptions; extend carpet beneath all moveable casework and removable casework (in adaptable units), equipment or non-permanent items.

D. Fit carpet tight to vertical interruptions leaving no gaps.

E. Install carpet tight and flat on subfloor, well fastened at edges, with a uniform appearance.

3.05 INSTALLATION – MODULAR CARPET TILE

A. Prime subfloor surface in accordance with manufacturer’s installation instructions.

B. Lay out and install carpet in accordance with manufacturer’s installation instructions.

C. Double cut carpet seams. Make cuts straight, true, and unfrayed.

D. Roll with appropriate roller for complete contact of adhesive to substrate, check for proper adhesive contact.

E. Trim carpet neatly at walls and around interruptions.

F. Complete installation of edge strips, concealing exposed edges.

3.06 CLEANING AND PROTECTION

A. Trim any loose fibers at seams flush.

B. Clean and vacuum carpet surfaces.

C. Prevent construction traffic and work from taking place directly on carpet, provide protection where construction activity is required after carpet installation.

END OF SECTION

SECTION 09 90 00

PAINTS AND COATINGS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Surface preparation and field painting

1.02 REFERENCES

A. All references shall be the latest adopted edition.

B. MPI – Architectural Painting Specification Manual, as published by the Master Painters and Decorators Association.

C. SSPC – Steel Structures Painting Council, Steel Structures Painting Manual.

1.03 SUBMITTALS

A. All submittals will be sent to the County's designated Project Manager.

B. Product Data: Provide product data on each different paint finishing product.

C. Paint Schedule: Provide schedule of all proposed paint products for the items to be painted in format matching the Schedule found in Part 3 of this Section.

D. Paint Draw Down Samples: Submit two painted samples, illustrating selected colors for each color and system selected. Submit on heavy paper card stock, 8 x 10 inch in size.
   1. Sheen Samples: Submit samples of different sheens for each color as directed for selection.

1.04 QUALITY ASSURANCE

A. Single Source Responsibility: All paint products used for painting a given material/surface shall be manufactured by the same company.

B. Applicator Qualifications: Company specializing in performing the work of this section with minimum five years successful experience.

1.05 REGULATORY REQUIREMENTS

A. Conform to applicable code for flame and smoke rating requirements for products and finishes.

1.06 DELIVERY, STORAGE, AND PROTECTION

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and or as required by manufacturer's instructions and/or MPI MANUAL.

1.07 ENVIRONMENTAL REQUIREMENTS

A. Provide environmental conditions as required by paint manufacturer, MPI Manual and as follows:
   1. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer’s written literature.
   2. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer’s written literature.
   3. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

PART 2 - PRODUCTS

2.01 PAINTS AND COATINGS - GENERAL

A. Paints and Coatings: Ready mixed, select products complying with MPI standards from the following acceptable Manufacturers:
   1. Paints:
      a. Benjamin Moore & Company
      b. Sherwin Williams
      c. Parker Paint
      d. Kelly Moore
      e. No Substitutions.
   2. Stain/Oils/Waterborne Urethanes:
      a. Proluxe or PPG Paints
      b. Benjamin Moore & Company
      c. Cabots
      d. Dalys
      e. Duckback
      f. No Substitutions.
   3. Paints/stains must be products which installer has used on other projects and are known to provide excellent performance including:
      - A soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.
      - Good hiding characteristics.

- Good flow and brushing properties.
- Good mildew-resistance.
- Capable of drying or curing free of streaks or sags.

B. Certain manufacturer's products may not provide adequate hiding ability with the number of coats specified. Contractor may be required to provide additional coats at no additional cost if products are selected that do not provide adequate hiding ability.

2.02 ACCESSORY MATERIALS

A. Putty: Conform to FS TT-P-791A(3), colored to match paint and stain finishes, as applicable.

B. Cementitious Filler: Nonshrink formulation, white Portland cement with fine silicate aggregate, zinc- oxide pigment, and reinforcing chemical binder as approved.

C. Spackling Compound: Standard gypsum board compound.

D. Unspecified materials such as turpentine, linseed oil, or mineral spirits shall be products of reputable manufacturers and as recommended by paint manufacturers.

E. Materials for Undercoats and Finish Coats: Ready mixed, and shall not be changed, except thinning of undercoats (when required), reinforcing, or coloring, all of which shall be performed in accordance with manufacturers' recommendations.

PART 3 - EXECUTION

3.01 COORDINATION

A. Review, coordinate and accommodate work of other trades that interface with, affect or are affected by the work of this Section so as to facilitate the execution of the overall Work of this project in a coordinated and efficient manner.

B. Coordinate selection of paint products to be applied over prime coats applied by others for compatibility and good adhesion.

C. Coordinate inspection of finish GWB surfaces with Section 09 29 00 prior to start of any painting work; identify and mark any defective areas for correction.

D. Schedule work to follow completion of all dust/dirt producing work.

3.02 EXAMINATION

A. Verify that surfaces are clean and ready to receive paint as required by the product manufacturer.

B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application or performance.

C. Start of installation indicates acceptance of substrate, finish and conditions and responsibility for proper finish and appearance.

3.03 SURFACE PREPARATION

A. Conform to MPI Manual surface preparation recommendations, paint manufacturer's recommendations and the following for preparation of each different surface scheduled to be painted:

B. Substrate: Clean substrate surfaces thoroughly before applying any primer or paint following paint manufacturer's cleaning recommendations; allow substrate to dry thoroughly before starting paint application.

C. Surface Appurtenances: Remove electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.

D. Marks: Seal with shellac those which may bleed through surface finishes.

E. Mildew: Remove mildew by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.

F. Factory Primed/Painted Items to be Painted: Hand sand factory finished surfaces to provide proper tooth for good adhesion of finish coats.

3.04 PROTECTION

A. Protect all finish surfaces, and elements surrounding the work of this Section from overspray, damage or disfiguration.

B. Maintain subfloor surfaces free from paint and spills using heavy paper or other method.

3.05 APPLICATION

A. Apply products in accordance with manufacturer's instructions and MPI Manual.

B. Apply sufficient wet film thickness to provide good hiding, do not thin product.

C. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

D. Do not apply finishes to surfaces that are not dry.

E. Allow applied coats to dry completely before next coat is applied.

F. Apply each coat to uniform appearance. Apply each coat of paint slightly darker than preceding coat unless otherwise approved.

G. Vacuum clean surfaces of loose particles. Remove dust and particles just prior to applying next coat.

H. Gypsum Board & CMU Surfaces: After paint has been spray or roller applied to uniform wet film thickness, backroll entire surface in same direction to provide uniform texture, reflective value and appearance, free of roller marks or lines.

3.06 FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT

A. Remove louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

B. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.07 CLEANING

A. Collect waste material which may constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.08 SURFACES THAT REQUIRE PAINT FINISH

A. Paint all new and existing materials/surfaces as shown in the drawings or otherwise required for complete and finished project.

B. Firestopping/smoke seal exposed to view.

C. Factory-finished items that require painting:
   1. Access panels/doors

D. Mechanical and Electrical: Use paint systems defined for the substrates to be finished.
   1. Mechanical grilles and louvers
   2. Paint exposed to view insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, and hangers, brackets, collars, supports, and related similar items to match background surfaces
   3. Paint shop-primed items.
   4. Paint interior surfaces of air ducts that are visible through grilles and louvers with one coat of flat black paint to visible surfaces

E Interior:
   1. Gypsum board, typical: Waterborne, 4 coats.
      (1) One coat latex PVA primer sealer (apply before application of texture coat).
      (1) One coat latex primer (apply after application of texture coat).
      (2) Two coats acrylic enamel. (Finish eggshell)

2. Wood Doors/Frames/Trim: Waterborne Polyurethane, 3 coats (satin).

END OF SECTION