

TREVENNEN BUILDING SCHEMATIC DESIGN

PROJECT NARRATIVE

COST ESTIMATE ASSUMPTIONS & SUMMARY

DRAWINGS

G001 COVER SHEET

A100 SITE PLAN

A201 FLOOR PLANS - OPTION 1

A202 FLOOR PLANS - OPTION 2

A203 BASEMENT & ROOF FLOOR PLANS

A301 BUILDING ELEVATIONS

A302 BUILDING SECTIONS

P201 PRESENTATION PLANS - OPTION 1

P202 PRESENTATION PLANS - OPTION 2

ENGINEER NARRATIVES

STRUCTURAL - KINGWORKS STRUCTURAL ENGINEERS

MECHANICAL - METRIX ENGINEERING

ELECTRICAL - K ENGINEERS

HAZARDOUS MATERIALS REPORT

COST ESTIMATING

Sedro-Woolley Innovation For Tomorrow

SWIFT CENTER



December 2023

Trevennen Building (a.k.a. Nurse's Hall No. 2)

Trevennen was built in 1938 and is one of the most architecturally intact buildings dating to the last major period of Northern State Hospital's historic development. Located on the northeastern edge of the campus, the building was not part of the original Olmstead Brothers master plan. Trevennen was designed by Seattle architect James M. Taylor Jr. who was hired by the State in the 1930s to perform a campus needs assessment and design a number of significant Northern State Hospital (NSH) facilities and additions. As the second nurses dormitory on campus, Trevennen provided housing exclusively for female nurses until NSH closed in the 1970s. Talyor Jr.'s original 1937-design included two additional single-story wings on the north and south ends of the building. Perhaps due to funding restrictions, these wings were not built. With its Spanish Colonial Revival design, three-story round tower, and Baroque entryway, Trevennen is one of the most ornate buildings on the NSH campus. Despite the replacement of its historic clay-tile roof, Trevennen has undergone few alternations over the years. The building retains considerable historic integrity and has high-reuse value.

Rehabilitation is the recommended treatment option for Trevennen. This strategy preserves most of the significant character-defining features, while simultaneously allowing the building to better serve future plans for the Swift Center campus. This study examines the cost for its rehabilitation for use as a hotel (transient), which aligns more closely with the building's historic use. This study is intended to be principally used for feasibility planning by the Port of Skagit and not for maintenance, preservation, or construction purposes.

Scope of Work

RMC Architects developed two renovation options for the interior of Trevennen for use as a hotel. Option 1 explores minimal change to the existing floor plan. Guestrooms retain the size and feel of the original dorm rooms with in-unit sinks and shared bathrooms down the hall. Option 2 provides a more contemporary hotel layout, with each guestroom having an integral bathroom.

Total Guestroom Count:

Option 1: 31 guestrooms (3 shared bathrooms per floor)

Option 2: 19 guestrooms (integral bathrooms)

Interior improvements include replacement of damaged lath and plaster with gypsum wallboard, upgrades to assemblies for energy code compliance, modernized mechanical, plumbing, and electrical systems, and accessibility improvements. To avoid impacting historic features, a residential elevator is proposed just off the entry tower and within the existing building envelope. Trevennen's existing structure is adequate for residential loads, but anchoring will be needed at the roof, walls, and floors. Recommendations for voluntary seismic improvements are included with this study.

Improvements to the building's envelope include replacement of the existing doors and windows in kind as well as repairs to windows sills and terracotta ornament. Although the existing asphalt shingle and metal roofing systems are not historic, their replacement in kind is more cost effective than restoring the original clay-tile roofing.

Proposed modifications to the building site include the paving and enlargement of the existing parking lot, as well as the addition of parking along the existing access road west of Trevennen. New paved walkways are needed to access the building's three existing entrances.

Design Review

The proposed renovation of Trevennen Hall is intended to be in conformance with the Design Guidelines for the Center of Innovation and Technology adopted in 2015. An architectural historian has recieved these documents on behalf of the Port of Skagit and has found the design to meet or exceed the design guidlines. As a hotel, the building will be similarly used as it was historically. The historic character of Trevennen will be retained and preserved. The removal of distinctive materials or alteration of historic features, spaces, and spatial relationships will be avoided or minimized.



Cost Estimate Assumptions

Construction cost estimating is based on the following schematic design drawings and engineer narratives. A 20% design contingency is included due to the preliminary nature of the design proposal. This estimate was prepared using 2022 wage labor rates and all costs are shown in US dollars as of December 2022. A more detailed cost breakdown is provided at the end of this report for more information.

Trevennen - Option 1 Construction Cost Estimate Summary

Hard Cost		
Construction		2,682,019
General Requirements		197,644
General Conditions		421,042
Overhead + Profit	12%	396,085
	Subtotal	3,696,790
Contingency	20%	739,358
	Total Hard Cost \$	4,436,148
Soft Costs		
Sales Tax	8.6%	381,509
Permits	1.0%	44,361
Project Management	2.0%	88,723
A/E Fees	11.0%	487,976
_	Total Sof Cost	1,002,569
	Combined Total \$	5,438,717

Trevennen - Option 2 Construction Cost Estimate Summary

Hard Cost		
Construction		2,898,633
General Requirements		197,644
General Conditions		425,553
Overhead + Profit	12%	422,619
	Subtotal	3,944,449
Contingency	20%	788,890
	Total Hard Cost \$	4,733,338
Soft Costs		
Sales Tax	8.6%	407,067
Permits	1.0%	47,333
Project Management	2.0%	94,667
A/E Fees	11.0%	520,667
	Total Sof Cost	1,069,734
	Combined Total \$	5,803,072

Trevennen - Site Improvements Site Improvements Cost Estimate Summary

Hard Cost Construction General Requirements General Conditions Overhead + Profit Subtotal	10%	176,059 11,840 23,122 17,606 228,627
Contingency	20%	38,733
Total Hard Cost	\$	232,398
Soft Costs		
Sales Tax	8.6%	19,986
Permits	1.0%	2,324
Project Management	2.0%	4,648
A/E Fees	11.0%	25,564
_		
	Total Sof Cost	52,522
_	Combined Total \$	284,920
Trevennen Building Demolition & Removal Cost	\$	314,885

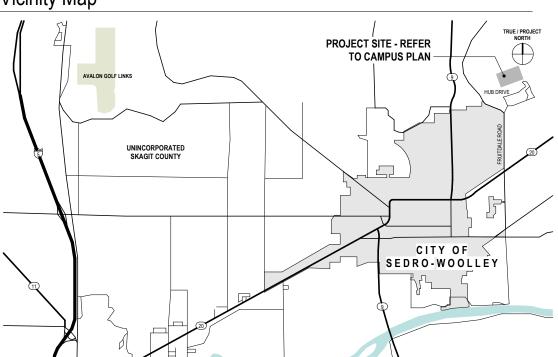
Port of Skagit - SWIFT Center Trevennan Hall Rehabilitation



Photo of Existing Building Exterior

NO SCALE NOTE: THIS PHOTO IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO BE USED FOR DESIGN, PERMITTING, BIDDING, OR CONSTRUCTION.

Vicinity Map



Project Team

CLIENT:	PORT OF SKAGIT 15400 AIRPORT DRIVE 15400 AIRPORT DRIVE 1540 AIRPORT OR SKAGIT 1540 757 0011 E HEATHERREPORTOFSKAGIT.COM ATTENTION: HEATHER ROGERSON	STRUCTURAL ENGINEER:	KINGWORKS STRUCTURAL ENGINEE 600 DUPONT STREET SUITE B BELLINGHAM, WA 98225 T 360 714 8260 ATTENTION: JACK KING E JACK@KING-WORKS.COM
ARCHITECT:	RMC ARCHITECTS, PLLC 1223 RAILEOAD AVENUE BELLINDHAM, WA 98225 1 380 67 7733 E JEFF MIGRINGARCHITECTS.COM E JASON WIGHNIGARCHITECTS.COM ATTENTION -JEFF MCCUERE, ASON WILLIARD	MECHANICAL ENGINEER:	METRIX MECHANICAL ENGINEERS METRIX ENGINEERS 227 WILLIAMS AVENUE S RENTON, WA 98057 T 425-336-2022 E BRADY®METRIXENG.COM ATTENTION: BRADY BELL
HAZARDOUS MATERIALS SURVEY:	PBS ENGINEERING AND ENVIRONMENTAL, INC. 214 EAST CALER STREET SEATTLE, LW 98102 7 206 233 9639 E MARK-HILEY@PBSUSA.COM ATTENTION: MARK HILEY	ELECTRICAL ENGINEER:	
COST ESTIMATOR:			

Drawing Index

GENERAL		ARCHITEC	CTURAL
G001	COVER SHEET	A100	SITE PLAN
G100	EXISTING CAMPUS PLAN	A201 A202	FLOOR PLANS - OPTION 1 FLOOR PLANS - OPTION 2
G201 G202	EXISTING FLOOR PLANS EXISTING BASEMENT & ROOF PLANS	A203	BASEMENT & ROOF PLANS
		A301 A302	BUILDING ELEVATIONS BUILDING SECTIONS
		P201 P202	PRESENTATION PLANS - OPT. 1 PRESENTATION PLANS - OPT. 2

Project Information

PROJECT DATA	
SITE ADDRESS:	BUILDING 35 - TREVENNAN HALL (NURSE'S WARD 2), TURNING POINT COURT
	"NOTE: ALL ADDRESSES ARE SEDRO-WOOLLEY, WA 98284 BUILDING ADDRESS PART OF THE SWIFT CENTER (SEDRO-WOOLLEY INNOVATION FOR TOMORROW), THE FORMER STATE-OWNED NORTHERN STATE HOSPITAL CAMPUS.
PARCEL NUMBER:	SKAGIT COUNTY ID NO. P38607 (PARCEL A), P39356 (PARCEL B), P100646 (PARCEL C), P100632 (PARCEL D)
	PARCES (NOTED ABOVE) LEGAL DESCRIPTIONS ARE FULLY DESCRIBED IN TRANSFER AGREEMENT BETWEEN DEPARTMENT OF ENTERPRISE SERVICES FOR THE STATE OF WASHINGTON AND THE PORT OF SKAGIT COUNTY, AND CAN ALSO BE FOUND AT THE OFFICE OF THE SKAGIT COUNTY ASSESSOR
PROJECT DESCRIPTION:	ADAPTIVE RE-USE AND REHABILITATION OF A 1937 NURSE'S WARD. WORK INCLUDES HAZARDOUS MATERIALS ABATEMENT, SELECTIVE DEMOLITION, RECONFIGURATION OF INTERIOR UNITS. UPGRADES TO VERTICAL CIRCULATION FOR ACCESSIBILITY, AND REPLACEMENT OF MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS. RE-ROOFING AND EXTERIOR CONCRETE WALL REPAIRS AND PAINTING ARE ALSO ANTICIPATED.
RELATED PERMITS:	TBD
DEFERRED PERMIT SUBMITTALS:	TBD

BUILDING CODE REQUIREMENTS

AREA SUMMARY

INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION INTERNATIONAL BESTING BUILDING CODE (IBC), 2018 EDITION INTERNATIONAL MECHANICAL CODE (IMC), 2018 EDITION INTERNATIONAL FUEL GAS CODE (IPC), 2018 EDITION INTERNATIONAL FILE CODE (IPC), 2018 EDITION INTERNATIONAL FILE CODE (IPC), 2018 EDITION UNIFORM PUMBING CODE (IPC), 2018 EDITION UNIFORM PUMBING CODE (IPC), 2018 EDITION UNSHINGTON ADMINISTRATIVE CODE (IMC), CHAPTER 286-466, NATIONAL ELECTRIC CODE (NEC), 2017 WASHINGTON ATTATE ENERGY CODE (WESCE), 2018 EDITION
*NOTE: ALL CODES ARE SUBSEQUENTLY MODIFIED BY WASHINGTON ADMINISTRATIVE CODE (WAC) AMENDMENTS

IEBC, PRESCRIPTIVE COMPLIANCE METHOD (IEBC 301.3.1) OCCUPANCY CLASSIFICATION:

CITY OF SEDRO-WOOLLEY, PUBLIC (P) - REFER TO SWMC 17.32

FIRE PROTECTION THE BUILDING WILL BE FULLY FOUIPPED WITH AN NEPA-BR FIVE SPRINKLER SYSTEM

ALLOWABLE HEIGHT 60 FEET, 3 STORIES ABOVE GRADE

7,000 SF PER FLOOR WITH A NFPA-13R FIRE SPRINKLER SYSTEM INSTALLED THROUGHOUT

*NOTE PER IBC 506.3.2, AN AREA INCREASE OF 75% CAN BE APPLIED WHERE THE BUILDING FRONTS ON A PUBLIC WAY OR GREEN SPACE OF 30' OR MORE.

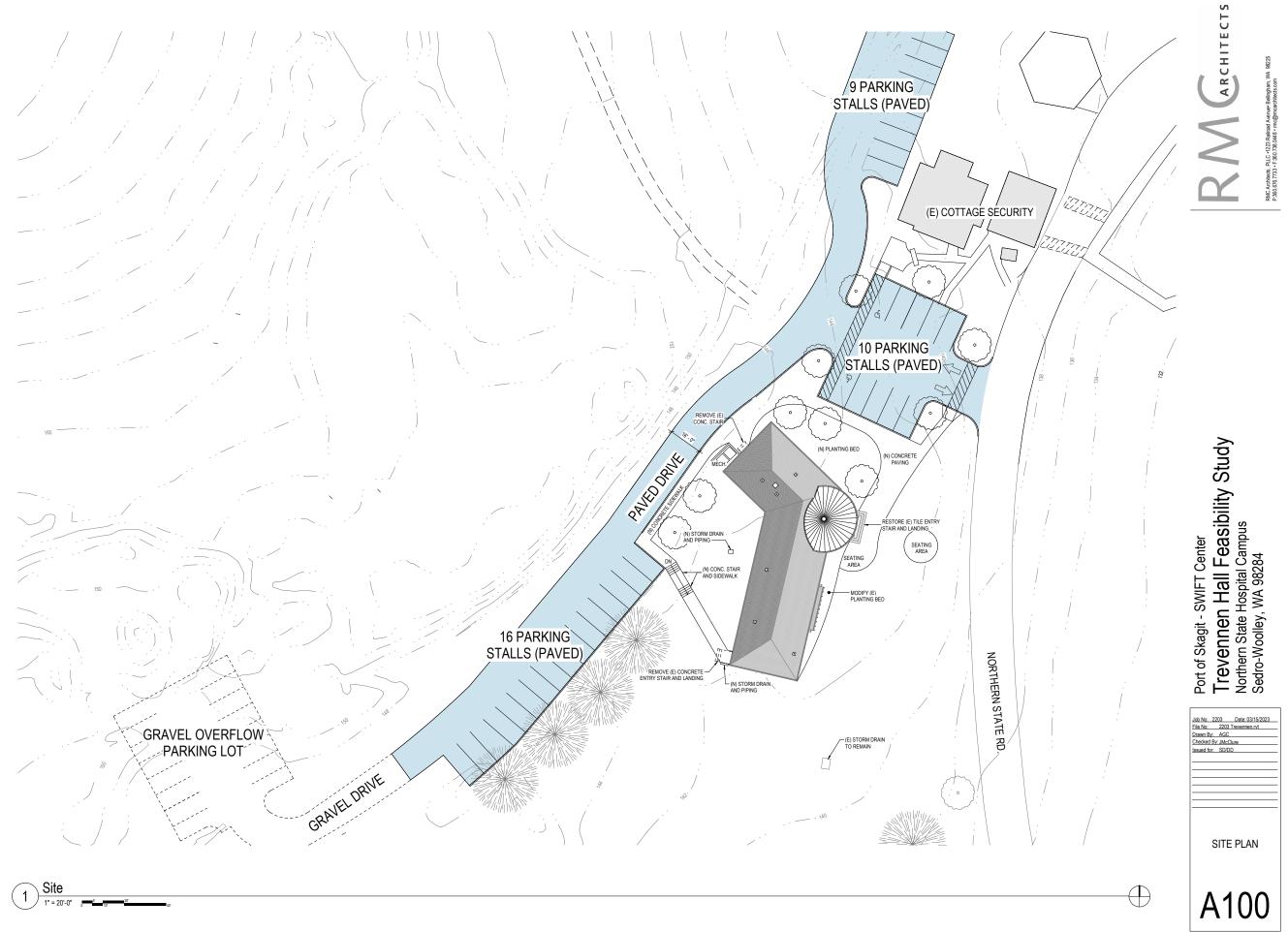
11.057 GSF

GUESTROOM COUNT:

OPTION 1: 26 STALLS + GRAVEL LOT OVERFLOW

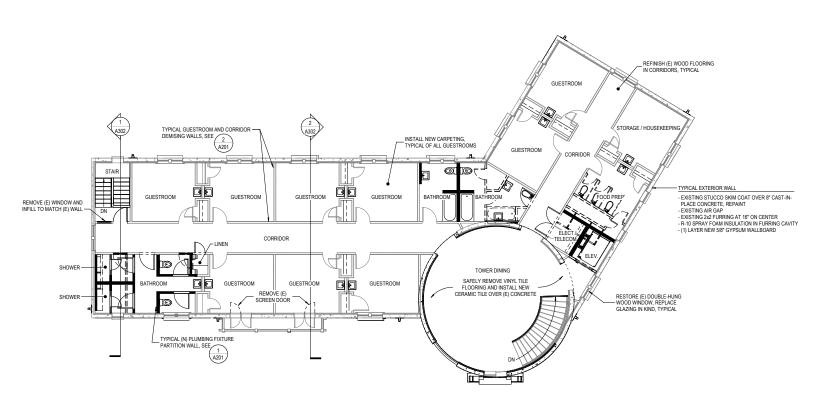
Port of Skagit - SWIFT Center **Trevennen Hall Feasibility Study**Northern State Hospital Campus
Sedro-Woolley, WA 98284

COVER SHEET G001

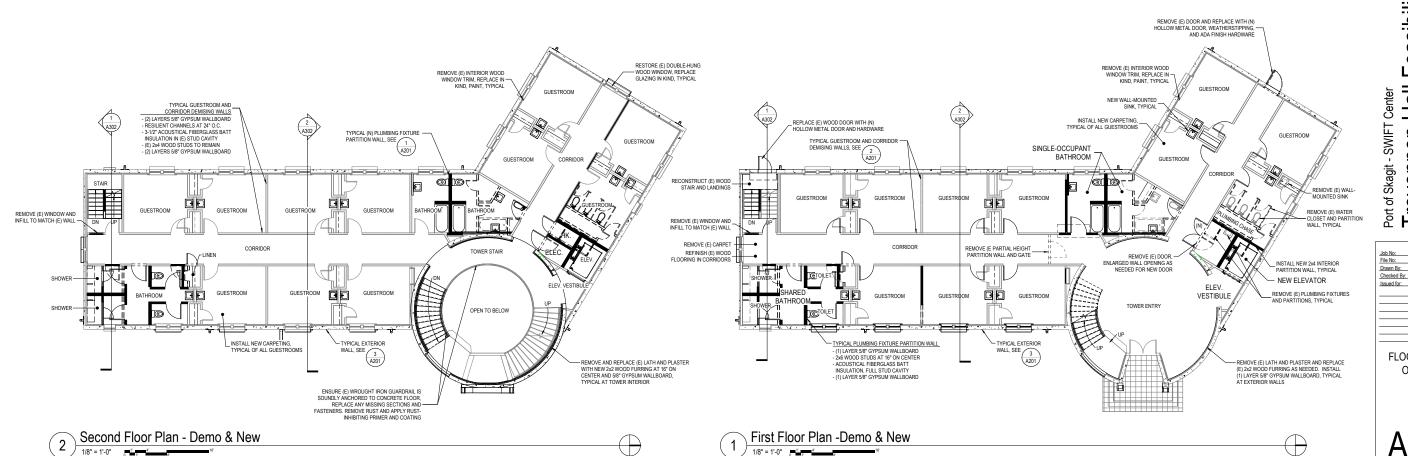


(E) WALL TO BE REMOVED

(N) 2x WOOD FRAMING & GYPSUM WALLBOARD CONSTRUCTION



Third Floor Plan - Demo & New



Port of Skagit - SWIFT Center Trevennen Hall Feasibility Study Northern State Hospital Campus Sedro-Woolley, WA 98284

2203 Date: 03/15/2023 2203 Trevennen.rvt

FLOOR PLANS -

OPTION 1

A201

JMcClure



- EXISTING PLASTER AND LATH TO BE REMOVED FROM ALL EXTERIOR WALLS, INTERIOR PARTITION WALLS, AND CEILINGS. REPLACE WITH NEW 5/8" GYPSUM BOARD PER PLAN NOTES.
- 2. REMOVE ALL EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING. INSTALL NEW PLUMBING FIXTURES AND PIPING WHERE SHOWN IN PLAN.
- 3. REMOVE ALL EXISTING HEATING REGISTERS AND ASSOCIATED PIPING. REPLACE WITH NEW HEAT PUMP UNITS.
- 4. REPLACE ALL EXISTING CORRIDOR DOORS WITH 20-MINUTE FIRE RATED SOLID CORE WOOD DOORS.

Wall Legend

(E) CONCRETE WALL TO REMAIN (E) CONCRETE WALL TO REMAIN, (E) LATH & PLASTER REPLACED WITH (N) GYPSUM WALLBOARD

(E) WOOD FRAMED WALL TO REMAIN, (E) LATH AND PLASTER REPLACED WITH (N) GYPSUM WALLBOARD [] [] (E) WALL TO BE REMOVED

(N) 2x WOOD FRAMING & GYPSUM WALLBOARD CONSTRUCTION

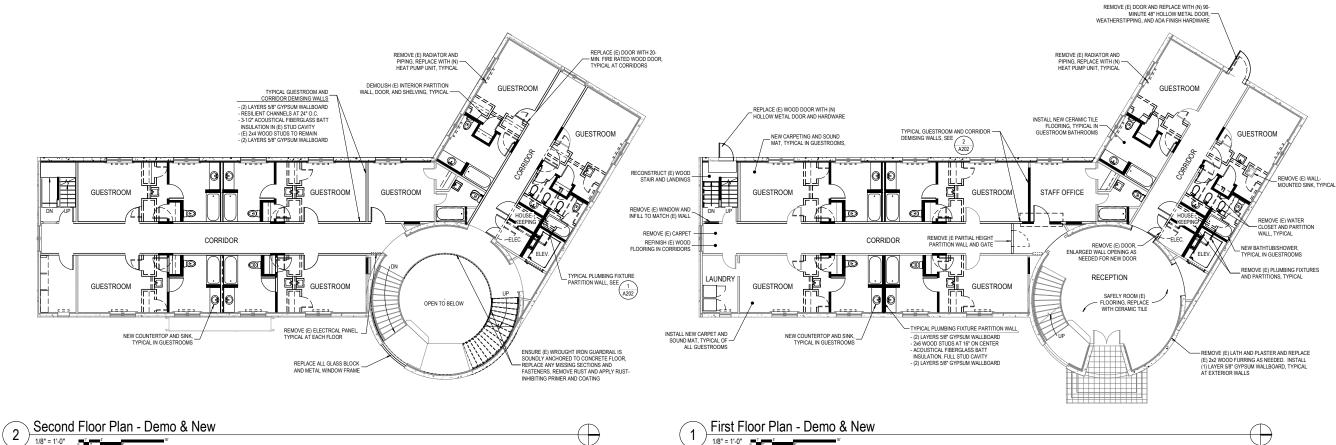
Third Floor Plan - Demo & New 1/8" = 1'-0"

REFINISH (E) WOOD BALCONY ROOF ____ SUPPORTS AND ORNAMENTAL GAURDRAIL

INSTALL NEW CARPETING, TYPICAL OF ALL GUESTROOMS

CORRIDOR

GUESTROOM



First Floor Plan - Demo & New

REMOVE (E) RADIATOR AND PIPING, REPLACE WITH (N) -HEAT PUMP UNIT, TYPICAL

GUESTROOM

TOWER DINING SAFELY REMOVE VINYL TILE FLOORING AND INSTALL NEW RAMIC TILE OVER (E) CONCRET

(2 A202

GUESTROOM

GUESTROOM

GUESTROOM

SERVICES

Port of Skagit - SWIFT Center Trevennen Hall Feasibility Study Northern State Hospital Campus Sedro-Woolley, WA 98284

 Job No:
 2203
 Date:
 03/15/2023

 File No:
 2203
 Trevennen.rvt

FLOOR PLANS -

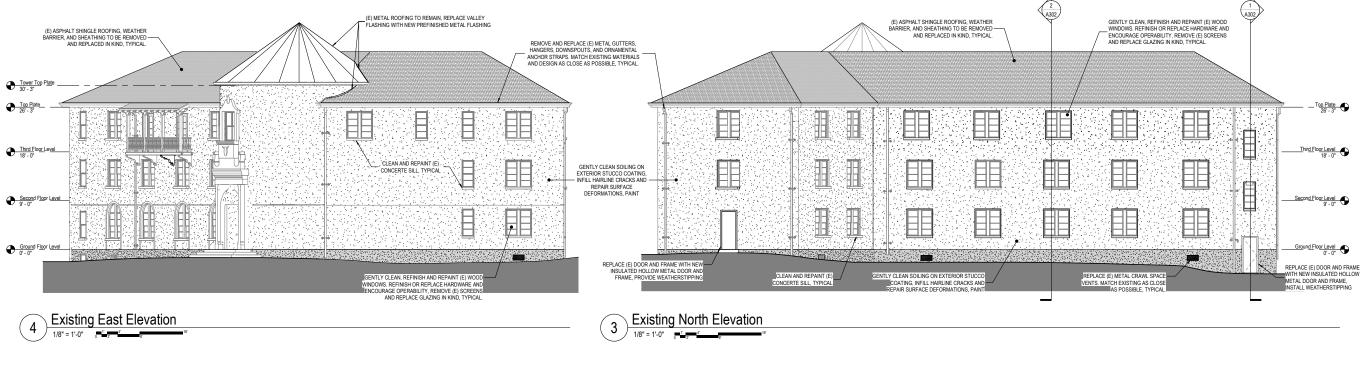
OPTION 2

A202

JMcClure

Checked By:

DRAWINGS NOT TO SCALE



(E) ASPHALT SHINGLE ROOFING, WEATHER

— BARRIER, AND SHEATHING TO BE REMOVED
AND REPLACED IN KIND, TYPICAL. (E) METAL ROOFING TO REMAIN, REPLACE VALLEY FLASHING WITH NEW PREFINISHED METAL FLASHING 1 A302 2 A302 REMOVE AND REPLACE (E) METAL GUTTERS, HANGERS, DOWNSPOUTS, AND ORNAMENTAL ANCHOR STRAPS. MATCH EXISTING MATERIALS AND DESIGN AS CLOSE AS POSSIBLE, TYPICAL. (E) ASPHALT SHINGLE ROOFING, WEATHER BARRIER, AND SHEATHING TO BE REMOVED AND REPLACED IN KIND, TYPICAL Tower Top Plate
30' - 3" Top Plate 26' - 3" CLEAN AND REPAINT (E) CONCERTE SILL, TYPICAL - REMOVE AND REPLACE (E) GLASS BLOCK AND PAINTED METAL FRAMING, MATCH EXISTING AS CLOSE AS POSSIBLE Third Floor Level Third Floor Level
18' - 0" GENTLY CLEAN, REFINISH AND REPAINT (E) WOOD WINDOWS. REFINISH OR REPLACE HARDWARE AND ENCOURAGE OPERABILITY, REMOVE (E) SCREENS AND REPLACE GLAZING IN KIND, TYPICAL. CLEAN AND REPAINT (E) CONCERTE SILL, TYPICAL . A302 Second Floor Level GENTLY CLEAN SOILING ON EXTERIOR STUCCO COATING, INFILL HAIRLINE CRACKS AND – REPAIR SURFACE DEFORMATIONS, PAINT GENTLY CLEAN SOILING ON EXTERIOR STUCCO COATING, INFILL HAIRLINE CRACKS AND REPAIR SURFACE DEFORMATIONS, PAINT Ground Floor Level Ground Floor Level
0' - 0" RESTORE (E) CLAY TILE ENTRY STAIR TEXTURE AS CLOSE AS POSSIBLE, PAIN Existing West Elevation **Existing South Elevation**

1/8" = 1'-0"

Port of Skagit - SWIFT Center

Trevennen Hall Feasibility Study
Northern State Hospital Campus
Sedro-Woolley, WA 98284 Job No: 2203 Date: 03/15/2023
File No: 2203 Trevennen.rvt

Drawn By: AGC

Checked By: JMcClure

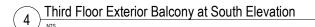
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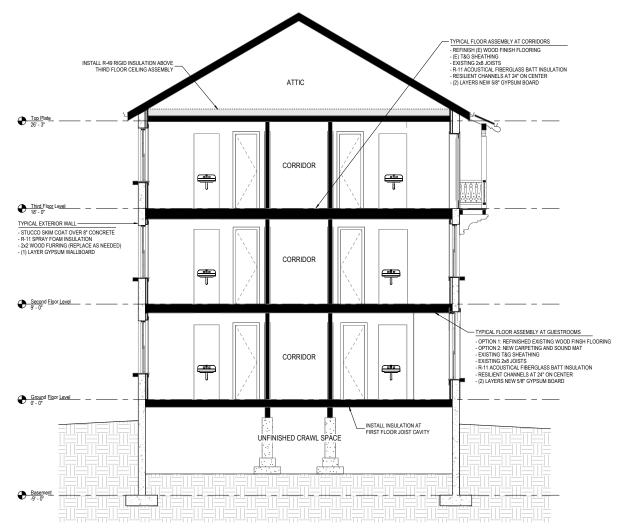
BUILDING

ELEVATIONS

A301

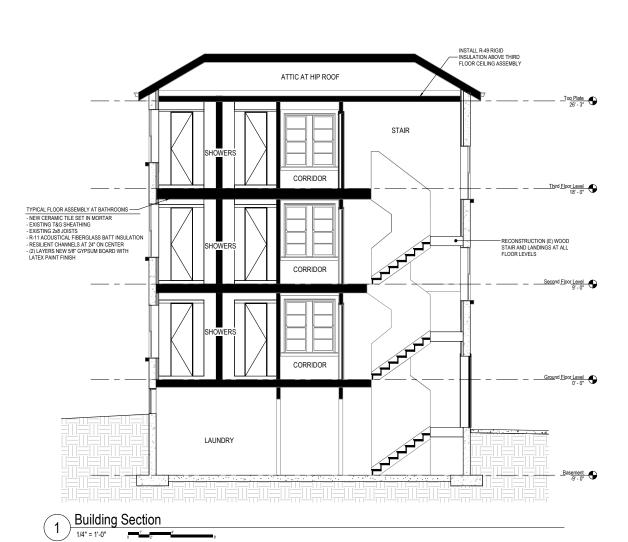
DRAWINGS NOT TO SCALE







Main Entry at South Elevation



RM (ARCHITECTS

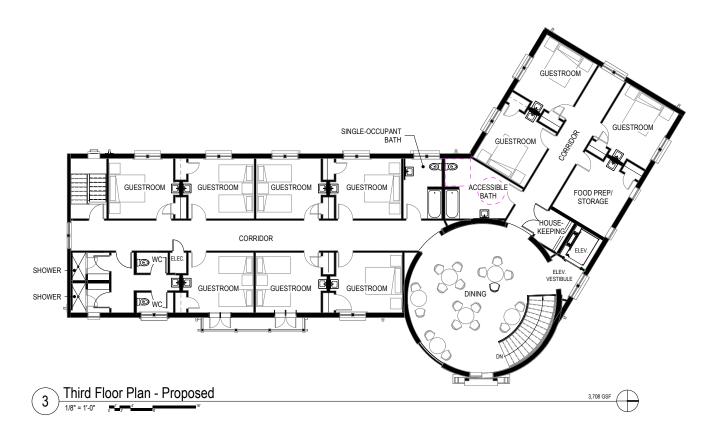
Port of Skagit - SWIFT Center

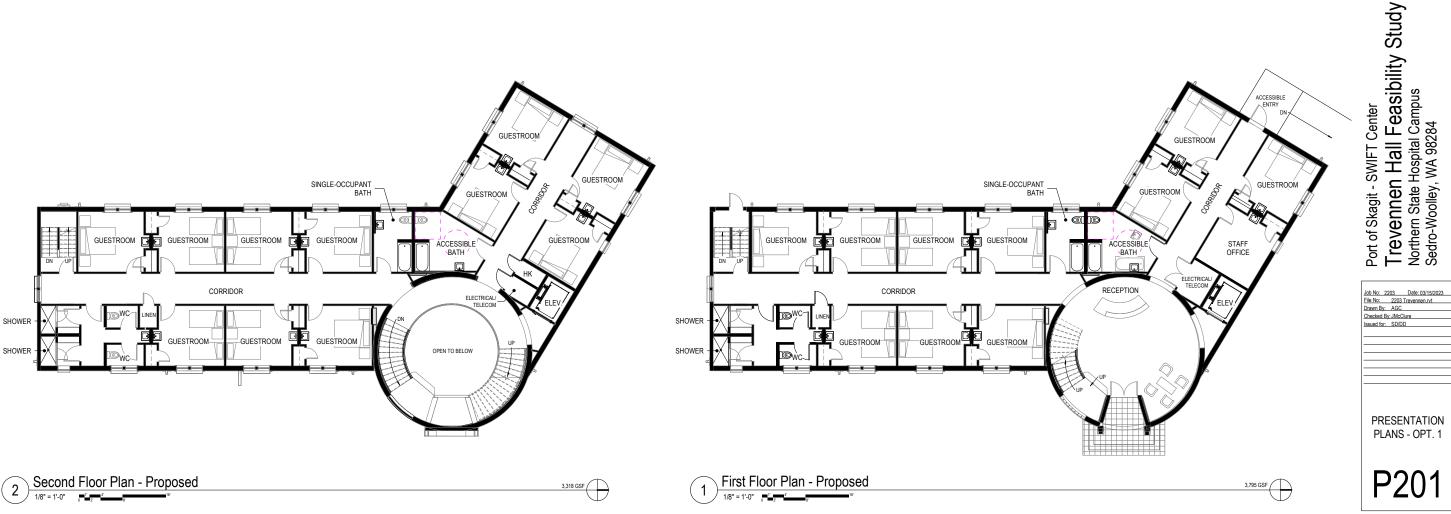
Trevennen Hall Feasibility Study
Northern State Hospital Campus
Sedro-Woolley, WA 98284

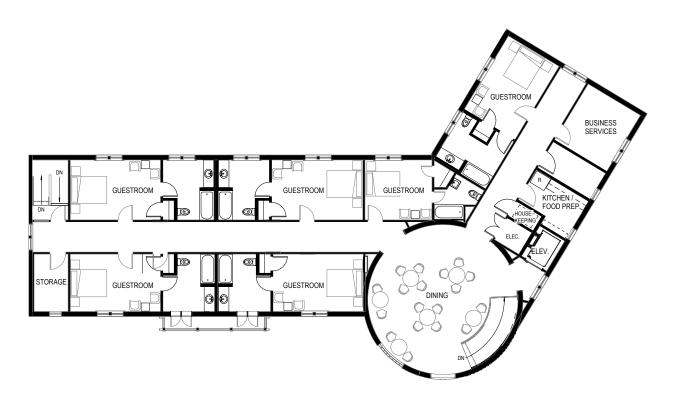
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BUILDING SECTIONS

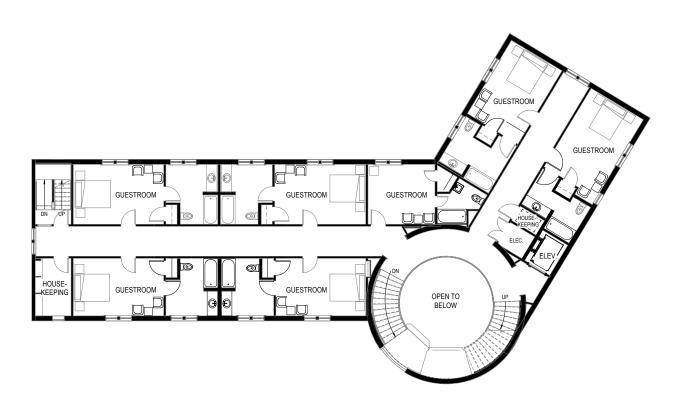
A302

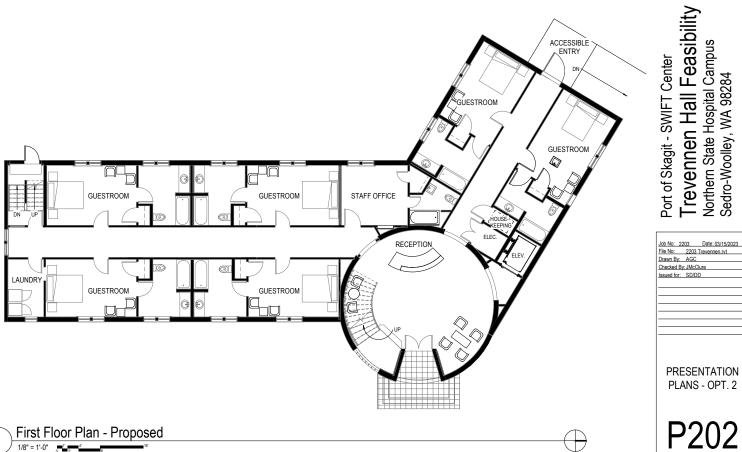






Third Floor Plan - Proposed





Port of Skagit - SWIFT Center **Trevennen Hall Feasibility Study**Northern State Hospital Campus
Sedro-Woolley, WA 98284

Second Floor Plan - Proposed

DRAWINGS NOT TO SCALE



September 22, 2022

Jeff McClure RMC Architects 1223 Railroad Avenue Bellingham, WA 98225

Project: Trevennen Structural Narrative – Swift Center

KW PROJ #:22090

Dear Jeff:

Kingworks has been contracted to provide the following services as they relate to the Trevennen Hall Building at the Swift Center. Our scope during the feasibility phase of this project includes providing the following in narrative form:

- Brief overview of the building's primary structure, including descriptions of the gravity and lateral force resisting systems and comment on the building structural condition and expected seismic performance.
- Findings of a code study of the proposed renovations as it relates to the structural aspects
 of the IEBC to determine any code required structural upgrades, including seismic
 improvements.
- Provide preliminary descriptions for structural work in renovating the building including for the anticipated alterations as shown in the RMC drawings titled Trevennen Hall Feasibility Study
- Provide a preliminary description recommended voluntary seismic upgrade strategies

We are basing this report on the following:

- Visual observations performed on 7/27/2022.
- Existing drawings provided by RMC, including a 4 page set of original drawings which includes some structural information
- RMC Trevennen Hall Feasibility Study drawing set dated 9/20/2022
- 2018 International Existing Building Code (IEBC).

Building Structural Description:

The Trevennen Hall building was constructed around 1937. The building was originally intended to serve as a dormitory for staff at the Northern State Hospital. There seem to have

been few, or no modifications or upgrades to the primary structural system since original construction.

The building has two residential wings with central corridors serving small dormitory rooms on each side. The west wing runs east west and is approximately 65 feet long. The other wing extends to the north-east and is approximately 33 feet long. A central lobby area with a round footprint of approximately 28 feet diameter is located at the intersection of the wings. The three floor levels stack with the same layout. The primary structure for the building consists of exterior reinforced (assumed) concrete walls, three wood framed floor levels, and a wood framed gable roof

The round, three story lobby has concrete walls around its perimeter. There is a stair and perimeter walkway which are both cantilevered in from the perimeter wall and constructed with reinforced concrete. The original drawings do not indicate size and spacing of steel reinforcement for these elements. The roof is timber framed with a conical shape. It is assumed that the perimeter walls act as a tension ring to provide the support for the timber spokes which connect at the pinnacle.

The foundation system for the building is reinforced concrete shallow column pad and wall strip footings. There is a crawl space below the two residential wings of the building and a floor slab in the central lobby area.

Structural Assessment:

This opinion is based only on the observations during a brief site visit and review of the original drawing set. The building seems to be in fairly good condition given the duration of time that it has been vacant and unmaintained. At one location where the west wing intersects the round lobby, water damage has propagated at all three floor levels causing various degrees of wood decay. There are likely other areas of the building with similar wood decay issues that are concealed. It is anticipated that the existing wall and floor finishes will be removed and replaced during a renovation project. This will allow for detailed inspection of the wood framing and for repair or replacement of decayed members. Given that there were no cracks visible in the exterior walls, it is our assumption that these walls were constructed with at least a moderate amount of steel reinforcement. This assumption should be verified by performing GPR scanning on a sampling of wall sections.

It is expected that this building would provide protection of life safety for occupants in minor, and possibly moderate earthquakes. The building would not perform as well as buildings constructed to modern code requirements. Buildings constructed before the 1950s with concrete (or masonry) walls and light wood framed floors and roof have often suffered damage resulting from the walls separating away from the floors and roof. If a large enough area of wall separates from the building, collapse of the floor and roof areas could occur.

See the following section for discussion of our interpretation of the code requirements for the remodel project that is being considered. The owner has the option to perform voluntary improvements beyond these code requirements. Recommendations for voluntary improvements are provided in a later section of this report.



2018 International Existing Building Code (IEBC) Requirements:

It is our understanding that the Port of Skagit is considering renovating the building to serve as a hotel, or for some other residential use. This renovation will largely consist of modifying some interior spaces and updating finishes and insulation. Mechanical and electrical systems will be fully upgraded (probably replaced).

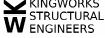
Renovations to existing buildings are required to follow the provisions of the International Existing Building Code (IEBC). The IEBC defines three levels of alteration and calls for increasingly stringent structural requirements as the level assignment increases. In our opinion the proposed renovation would be classified as a Level 3 Alteration without substantial structural alteration. Substantial structural alteration is defined as "an alteration in which the gravity load - carrying structural elements altered within a 5-year period support more than 30 percent of the total floor and roof area of the building" [IEBC202]. As a level 3 alteration, the building must comply with the IEBC requirements for alteration level 1, 2, and 3. The attached flow chart on shows the structural aspects of the IEBC requirements. The colored line on the flow chart indicates our opinion of the logic and requirements for this project.

Lateral Load System: Since the anticipated scope of the project will not include substantial structural alteration, AND the weight of the building is not expected to be increased by more than 10 percent, there will be no requirement for the building lateral load resisting system to be shown to comply with, or be upgraded to comply with, the modern lateral load requirements for current wind loads and 75 percent earthquake loads. It will be important to restrict the added weight from new finishes, insulation, and mechanical distribution systems below 10 percent of the existing building weight so that earthquake loads (which are proportional to building weight) are not increased above the 10 percent threshold. The IEBC will require anchoring the concrete walls to the floors and roof framing. For floors, this anchoring is usually accomplished by using adhesive anchors bolted to hardware that connects to the existing floor joists, or to new lines of blocking and straps where the walls run parallel to joists. For anchoring the walls to the roof, it may be necessary to add some plywood, wood members, and/or connecting hardware to the existing ceiling framing to provide an adequate load path for the seismic out of plane loads. Connections like this will usually be installed at a spacing of 4 to 6 feet at each floor and at the roof.

Gravity Load System: Per IEBC section 806.2, existing gravity resisting members will need to be evaluated at any location where their loads are increased by more than 5 percent, or their capacity is decreased by more than 5 percent. In general, it will be necessary to ensure that the weight of new finishes and mechanical distribution systems not exceed 5% of the existing assembly weights. The existing floor joists are 2x8s spaced at 16" o/c. These joists have been checked for typical residential floor loading and they are expected to be adequate.

Narratives for planned structural modifications:

Elevator Shaft: A new elevator shaft is shown outboard of the circular lobby where it connects to the northeast wing. A new bearing wall will be installed to support the elevator track and to support existing floor joists where they are interrupted for new shaft openings. The exterior concrete wall adjacent to the elevator will need to be reinforced with steel members to provide out of plane, lateral support at each floor level.



Voluntary Seismic Improvement

The following discussion describes recommendations for additional voluntary seismic improvements.

Lateral Load Resisting System Options: The current lateral system of the building relies on the concrete walls around the exterior of the building and wood framed diaphragms. The three improvements that have been identified for improving the performance of the lateral system are:

- Add a plywood sheathed shear wall extending transversely across the west residential
 wing midway between the lobby and the west end of the wing. The purpose of this wall
 would be to reduce the spans of the floor and roof wood diaphragms. The shear wall
 would need to extend into the crawl space and land on a new concrete stem wall
 foundation.
- 2) Add a plywood overlay to the existing wood decking at the floors and at the underside of the roof framing to improve the capacity of the existing diaphragms
- 3) Provide concrete tie beams to interconnect column pad footings in the crawlspace. A thin rat slab with moderate reinforcing might also serve this purpose.
- 4) If wall scanning reveals that the concrete wall reinforcement is absent or less than anticipated, provide adhered carbon fiber sheet reinforcement to the walls.

Other seismic improvements: Other seismic improvements that we would recommend include:

1) Installing additional steel hardware to the timber roof framing to improve connectivity between members.

Conclusion:

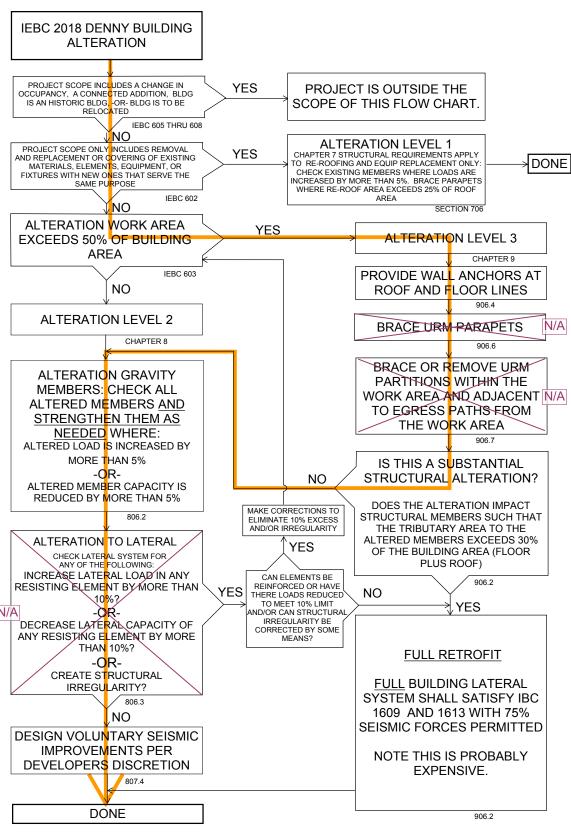
Please let us know if you have any questions or concerns. We would be happy to expound on any topic in writing if needed. After you have had a chance to review the recommendations contained herein, we would welcome the opportunity to meet with you to discuss our findings and develop a scope for a subsequent phase of work, which would provide construction drawings for the improvements that you choose to enact.

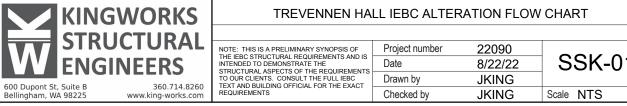
Sincerely,

John R (Jack) King, PE, SE Principal

Attachments: SSK-01 Trevennen Hall IEBC Flowchart







© copyright Kingworks Structural Engineers: 2022

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y Building Ton					
	_				
DES A CHANGE IN ED ADDITION, BLDG R-BLDG IS TO BE	3 YES		CT IS OUTSIDE F THIS FLOW		
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TREVENNAN BUILDING PORT OF SKAGIT MECHANICAL BASIS OF DESIGN – PLANNING PROGRESS DESIGN NARRATIVE

Mechanical

Updated 09/19/2022

Design Intent: The mechanical system for the Trevennan Building is intended to be balanced concept to meet important design, operational features and project goals including but not limited to, ease of maintenance, life cycle, occupant comfort, indoor air quality, reduction to operational funds, acoustics, programming and integration of spaces, and Port of Skagit Standards.

Port of Skagit is interested in validating future modernized buildings being tied into the campus steam plant. Although the steam plant is outside the scope of these projects, the proposed HVAC system takes into consideration the fact that the steam plant may not exist throughout the life of the new buildings mechanical systems.

In addition to the steam plant consideration, mechanical cooling is an important consideration for a hotel building that will be occupied all year.

The remainder of this design narrative summarizes the proposed system approach for the Trevennan Building. The approaches as identified in this memo are preliminary in nature and will require a meeting with facilities and maintenance personnel to ensure the defined approach is in-line with Port of Skagit expectations.

Applicable Codes and Standards:

The mechanical design shall meet or exceed, but not be limited to, the following codes:

International Building Code (IBC)
International Mechanical Code (IMC)
International Fuel Gas Code (IFGC)
International Fire Code (IFC)
Uniform Plumbing Code (UPC)
Washington State Energy Code (WSEC)
National Fire Protection Association (NFPA)

The mechanical design shall meet or exceed, but not be limited to, the following standards:

ASHRAE Standard 52.1 – Gravimetric and Dust Spot Procedures for Testing Air-Cleaning

Devices Used in General Ventilation for Removing Particulate Matter

ASHRAE Standard 55 – Thermal Comfort

ASHRAE Standard 62.1 - Ventilation for Acceptable Indoor Air Quality

227 Williams Ave S, Renton, WA 98057 Office: 425 336 2822 Fax: 425 336 2802



Planning Progress Design Narrative Trevennan Building – Port of Skagit Page 2

ASHRAE Standard 90.1 – Energy Standard for Buildings Except Low Rise Residential SMACNA – Sheet Metal & Air Conditioning Contractors

Design Criteria

Table 1. Outdoor Design Temperatures

Design Season	Temperature
Outdoor Winter DB	19.0°F*
Outdoor Summer	
DB	78°F*

^{*}values taken from 2018 WSEC

Table 2. Building Envelope

	U-	
Building Envelope	value	Component Description
Exterior Wall*	0.104	Existing concrete, insulated
Glazing	0.38	Metal framing, SHGC = 0.38
Exterior Door	0.37	Hollow metal door, insulated core.
Roof	0.26	Existing concrete floor, insulated roof
Floor Over Unconditioned		
Basement*	0.029	Insulated

^{*}values taken from 2018 WSEC default values

Plumbing Systems:

- 1. The existing plumbing systems are past their useful life and will be replaced with new.
- 2. Utilities:
 - a. The domestic water system will be connected to the campus water loop. Connection will be at 5'-0" outside of the building.
 - b. The sewer system will be connected to the existing site sewer. Connection will be at 5'-0" outside of the building.
 - c. All roof drainage will be via gutters and downspouts, exterior to the building, and will be picked up by the site work contractor and connected to the storm drainage system designed by the civil engineer.
- 3. Water Service: The main building water service will be provided in the first floor mechanical room. The service riser and main building backflow preventer will be located in this space and will serve the domestic cold water systems. The mechanical room will also contain the equipment to serve the domestic hot water systems. Piping services will be adequately isolated to provide ease of maintenance accessible through ceiling tiles or access doors. New piping services shall be sized in conformance with the Uniform Plumbing Code.
- 4. Irrigation: No plumbing scope.



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Planning Progress Design Narrative Trevennan Building – Port of Skagit Page 3

- 5. Domestic Hot Water System: Hot water will be provided by an electric heat pump water heater, and storage tank. Unit will supply domestic hot water to the building. All domestic water heaters will be designed with hot water recirculation piping and pumps to keep hot water available at fixtures. The heat pump water heater will be located outside, on grade. Water heater storage tank and appurtenances will be provided in the first floor mechanical room.
- 6. Plumbing Fixtures: Lavatories and wash fountains will use electronic sensor faucets with batteries. Water closets will manually operated, 1.28 gpf flush valves and urinals will use battery operated, 0.125 gpf flush valves.
- 7. Sanitary Waste and Vent System: A sanitary waste and vent system will be installed to serve all potable fixtures within the building.
- 8. Natural Gas System: There will be no natural gas.

Fire Sprinkling System:

- 1. The existing building is not sprinklered.
- 2. The sprinkler system will be connected to the existing site water. Connection will be at 5'-0" outside of the building.
- 3. The first and second floor will be completely sprinkled with wet system coverage in conformance with NFPA 13 and local AHJ requirements. The design will include a wet pipe system to serve all interior occupied areas and combustible void spaces. Where design coordination allows, building overhangs will be protected with dry sidewall heads off of the wet system. Concealed heads or head guards will be provided at all sprinkler heads subject to damage.
- 4. The attic will be sprinklered with dry system coverage if it remains unheated and uninulated.
- 5. The double detector check valve (DDCV) and dry and wet risers will be located in the first floor mechanical room.
- 6. A fire department connection (FDC) and post indicator valve (PIV) will be provided on site by civil.

Heating, Ventilating and Air Conditioning System:

- 1. The existing HVAC system is past its useful life and will be replaced with new.
- 2. Heating and Cooling Plant:
 - a. There will not be a central heating plant. VRF is not being considered for this building due to the high refrigeration volumes combined with the small hotel rooms.
- 3. Ventilation:
 - a. Single zone energy recovery ventilators "ERV" with fixed plate enthalpy heat recovery cores will supply ventilation to each zone. ERV's will have a supply fan, exhaust fan, filter and heater recovery. Air will be supplied by overhead type diffusers. Return air will be overhead.

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Planning Progress Design Narrative Trevennan Building – Port of Skagit Page 4

- b. ERV's for the hotel rooms will be installed above the hard lid ceiling in the restrooms. Access panels will be provided for filter and fan access. ERV's for larger zones will be installed in the attic space.
- 4. Zone Heating and Cooling:
 - a. The heating and cooling will consist of single zone mini split heat pumps. Refrigerant piping will be piped from the outdoor unit to the fan coil terminal units.
 - b. The outdoor heat pumps will be installed in a service yard. Screening around the service yard will be provided for both visual and acoustical separation.
 - c. Fan coils will be ducted or ceiling cassette style. Cassettes will be provided for smaller zones. Ducted fan coils will be provided for larger zones and will be installed in the attic.
- 5. Exhaust Systems: ERV's will handle exhaust air for toilet rooms. Dedicated exhaust fans will serve the custodial areas and any specialty exhaust needs where more control of the airflow is required. Fans will be direct drive ECM type with speed controller.
- 6. MDF, IDF and Elevator Machine Rooms: Split system air conditioning units will provide separate and independent means of cooling these spaces requiring 24/7 cooling.
- 7. Building Automation System (BAS): The mechanical systems in the building will be controlled and monitored by a direct digital building automation control system (BAS) with BACnet interface and web-based capability. The individual heat pumps will have their own integrated control system. Each heat pump thermostat will be provided with a BACnet interface to allow the BAS to provide scheduling and other high level control functions of the zone.

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END OF NARRATIVE





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Port of Skagit – Swift Center – Trevennen Building Electrical Schematic Design Narrative 9/15/2022

Project Description

The Trevennen renovation project is intended to modernize the existing building into a hotel building. This building formerly served as the living quarters for the nursing staff. The building is 3 story, approximately 11,057 square feet. The existing interior and exterior walls are intended to remain with some selective remodeling. The walls will have their lath and plaster removed to expose the original wood framing.

A new elevator will be added to the building to provide elevator access to the second and third floors.

Power Services & Distribution

The Trevennen Building is not connected to the campus 4,160 volt medium voltage system and hasn't been connected to any power source since at least 2000 (maybe longer) when the portion of the new medium voltage system near Trevennen was installed.

To re-energize Trevennan on the campus power system, the closest source of power is from a nearby underground vault near an above grade medium voltage switch located along Northern State Road. This vault has medium voltage cables that are unused, are connected to a spare switch, and appear to have been installed for the future connection of Trevennen. There is no utility tunnel access to Trevennen so the primary power will need to be trenched to Trevennen and a new above grade padmount transformer will need to be installed to supply Trevennen.

To re-energize Tevennen from the Puget Sound Energy (PSE) system, the closest source is a vault along the Thompson Road at the intersection of Northwest OMS Dr. This is further away than the campus power located in Denny, however, the Port is not overly interested in owning their own primary power system so this may be a step to eventually phase out the campus primary power system. PSE primary power would need to be trenched from the existing PSE vault to near the Trevennen Building and a new above grade PSE padmount transformer will need to be installed.

The main electrical room is located in the basement, is small, and has some existing panels still there, however, they are in disrepair, obsolete, and will need to be removed.

A new main panel and electrical room will need to be added to supply the building along with the addition of a new elevator and the all-electric load of new mechanical units.

The existing feeders and branch circuit panels within the building are at the end of their lifecycle, are obsolete, and are too small for the intended renovation. New feeders and branch panels will be needed to support the new work.

The branch circuits appear to be old knob and tube wiring type. This wiring method is obsolete and not suitable to support new work. It will need to be removed and replaced with new.

New building service cables, main panel, feeders, branch circuits, and branch panels will be sized per the National Electric Code for the connected load.



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With the lathe and plaster being removed exposing the wood studs, wiring methods in finished areas will be concealed type as much as possible. Exposed wiring methods will be provided in the basement, attic, mechanical equipment rooms, utility areas, and on interior concrete walls that don't get new wall furring methods. Surface metal raceway will be installed where visible to the building occupants and in public spaces. Electrical Metallic Tubing (EMT) will be used for indoor/dry locations in commercial areas and NMB (romex) type wiring within the hotel rooms themselves. Exposed exterior conduit will be Galvanized Rigid Steel.

Outlet devices and wiring junction boxes will be installed in steel outlet boxes in commercial areas and plastic in the hotel rooms. They will be sized for equipment devices and wire-fill capacity.

Wire for feeder, power, and lighting, circuits shall be type THHN/THWN, 75°C 600-volt rated, thermoplastic insulation, copper conductor, stranded, except below grade wire shall be XHHW and wiring within the hotel rooms will be NMB type.

Branch Circuits

Minimum size branch circuits will be 20 amps, #12 AWG copper wire. Wire size shall be increased as required for ampacity of loads served and when applicable, to compensate for voltage drop.

Equipment ground conductors for feeder circuits, branch circuits, control circuits, etc. installed in metallic raceways will be redundant, consisting of both an electrically continuous metal raceway system and the separate equipment ground cable run in the same raceway with the circuit conductors.

Branch circuits supplying outlets shall not exceed 7 duplex receptacles per 20-ampere circuit.

Motors, heating, and other specific equipment will be supplied with dedicated circuits sized and coordinated to the equipment's electrical characteristics.

Wiring Devices

The old knob and tube wiring and devices will be removed. New devices installed throughout the building will be specification grade switches and receptacles. Special amperage and voltage outlets will be provided for specific equipment as required. Cover plates will be stainless steel or white vinyl in commercial spaces. Ground fault interrupter receptacles will be specified in locations required by the National Electrical Code.

Grounding System

New grounding will be provided to comply with Article 250 of National Electric Code and Washington State Electrical Safety Standards, Chapter 296-46B WAC.

Electrical main service equipment will be grounded to made electrodes consisting of 5/8 x 10' driven copperclad ground rods, and connected to the building's metal water piping, structural steel and concrete rebar.

Communications grounding busbars will be provided and connected to the building's main electrical service, local distribution panelboards, water piping and building steel.



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Surge Protection Devices (SPDs)

There is no surge protective devices in the building. New surge protective devices will be provided to reduce possible damage to sensitive electronic equipment resulting from momentary excessive voltage surges. Electronic surge protection equipment will be mounted separately near the main panel, protecting the main and each downstream 120/208-volt panelboard serving receptacle outlets that supply computers and other sensitive equipment.

Lighting

The existing lighting is incandescent type with most of the fixtures having been already removed. The old knob and tube wiring and remaining light fixtures will be removed. New wiring and light fixtures will be installed throughout the building with new LED type. Site lighting will be building mounted. No pole lighting for the parking lot is anticipated with this project. All exterior lighting will utilize a full cutoff design so they are dark sky compliant and reduce glare to the neighbors.

All lighting will be designed to Washington State Energy Code and the Illuminating Engineering Society of North America standards. Lighting calculations, modeling, and photometric plans will be performed.

Lighting control will be automatic utilizing standalone power packs and occupancy sensors in each room. Daylight harvesting shall be provided in all daylight zones.

Local switches will be used for manual control of the fixtures and occupancy sensors will be installed to save energy by turning off the fixtures in unoccupied rooms.

Offices will be illuminated to 50 foot-candles and conference rooms will be in the 35 to 40 foot-candle range.

Restrooms will be illuminated to 20 foot-candles.

Corridors and stairways will be illuminated to an average 15 foot-candles

Mechanical and electrical rooms and janitor's closets will be illuminated to 15 foot-candles with 4-foot industrial fixtures.

Illuminated exit identification signs will be provided to identify egress pathways in accordance with building codes.

Egress lighting shall be powered from integral battery packs with selected fixtures and wall mounted battery packs emergency lighting units.

Telecommunications

The building do not have telephone, catv, or fiber services. The building does appear to have some phone boards and limited wiring, however, it is obsolete and will need to be replaced with new. The building does not have any data outlets or telecom rooms. All new telecom systems will need to be provided.

New telecom services will need to be trenched to most likely to the end of the tunnel system under the Wilkes/White Water building. The Port of Skagit owns a fiber system that is part of a campus fiber optic network that is accessible via the tunnel system.



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New telecom rooms will need to be provided for MDF's and IDF's that provide a space for telecom racks and equipment. The rooms will need to be conditioned and lockable. The most efficient design would position telecom rooms near the center of the buildings so that cables are able to reach all points of the building and more telecom rooms are not needed.

Horizontal cabling infrastructure will consist of Cat6A cabling and outlets installed throughout the facility. Cables shall be routed through the building and terminate in the MDF and IDF rooms.

Wiring shall be continuously routed and supported by suitable wire management components and cable tray.

Field testing and certification will be performed for all cabling infrastructure.

Wireless access point outlets and devices will be provided throughout the building

Fire Detection and Alarm

There is an abandoned fire alarm system in the building with its main panel down in the small basement electrical room. It is obsolete and will need to be replaced with a new addressibel system. Wherever the new fire sprinkler room is added, it should be large enough to also accommodate the main fire alarm panel for the building.

The fire alarm system will comply with the International Fire Code, ADA requirements and applicable NFPA codes. It will consist of manual pull stations, smoke and heat detectors, fire sprinkler water flow switches, and horn/visual notification devices installed throughout the buildings. The main panel will automatically communicate all alarms and trouble to 24-hour alarm monitoring services.

The building will have a full fire sprinkler system (by mechanical). The building fire alarm system will supervise the fire sprinkler system and notify any alarm conditions. Each separate sprinkler system riser and floor zone flow and tamper switch will be monitored.

Partial building smoke detection will be provided with devices located in corridors and common areas. (full detection in every space is not anticipated and not required by code because the building will be fully sprinkled). Duct type smoke detection will be provided as needed for damper control and HVAC unit shutdown. Audible horns and visual alarms (strobes) will be provided throughout the facility.

In the hotel rooms, a 120 volt combination carbon monoxide/smoke detectors will be added to sound a local alarm within the individual room only. Each hotel room will also have a horn to alert occupants when there is a building wide alarm.

A remote annunciator will be installed at the building entrance lobby.

Elevator Lobby Two-Way Communication System

With the new elevator, a two-way intercom system will be provided at each elevator lobby on any floor not on grade. It will allow voice communications from any floor to a ground floor master station and annunciator. The system shall provide repeating tone and LED light signals for each individual zone at the annunciator to indicate when evacuation assistance is requested. When the signal is acknowledged, the call station shall be notified audibly and visually that help is on the way.



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Audio/Video Systems

There are no conference rooms, meeting rooms, etc. anticipated in the proposed floor plan so no audio/video systems are anticipated.

Security & Access Controls

The building does not have any existing security & access control systems. It is anticipated that a certain level of these systems will be added with the renovation. The level of detail and locations of devices will be determined with owner coordination as the project transitions through design phases.

Video Surveillance

The building does not have any existing surveillance systems. It is anticipated that a certain level of these systems will be added with the renovation. The level of detail and locations of devices will be determined with owner coordination as the project transitions through design phases.

Emergency Responder Radio System

Coordination with the Skagit County will be required to determine if an Emergency Responder Radio System will be required as part of the renovation for this building.

Engine-Generator Set

There is no Engine-Generator Set planned for this building.

Steve TeVelde, P.E., K Engineers, Inc.



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POS - SWIFT Center Trevennen Hotel Renovation

Pre-Schematic Design Cost Estimate

8/19/2022

Description	Quantity	Unit	Cost	Total
Building				
Demolition	11057.0	ls	\$0.80	\$8,845.60
Electrical Distribution & Devices	11057.0	sf	\$7.45	\$82,374.65
Lighting Distribution & Fixtures	11057.0	sf	\$5.30	\$58,602.10
Lighting Controls	11057.0	sf	\$2.25	\$24,878.25
Telecom. Conduit, Cabling, Supports	11057.0	sf	\$2.75	\$30,406.75
Fire Alarm System	11057.0	sf	\$2.55	\$28,195.35
Security, Access Controls System	11057.0	sf	\$1.25	\$13,821.25
Video Surveillance System	11057.0	sf	\$2.00	\$22,114.00
Elevator Lobby 2-way Intercom System	1.0	ls	\$8,000.00	\$8,000.00
Elec General Cond., Mob/demob, etc. (10%)				\$26,923.80
sub-total	11057.0		\$27.51	\$304,161.75
Primary Power Source from Campus system			-	
Campus primary power from Denny switch	90.0	If	\$200.00	\$18,000.00
Trenching & Excavation	90.0	if	\$35.00	\$3,150.00
Primary switch	1.0	ea.	\$30,000.00	\$30,000.00
Padmount primary transformer	1.0	ea.	\$35,000.00	\$35,000.00
sub-total	1.0	ou.	400,000.00	\$86,150.00
All Division Don				
Alternate - Primary power source from PSE				(000 450 00)
DEDUCT campus primary costs listed above	4000.0	ıe	#200 00	(\$86,150.00)
PSE Primary power from vault on Thompson	1236.0	lf If	\$300.00	\$370,800.00
Trenching & Excavation	1236.0	lf	\$35.00	\$43,260.00
PSE vaults	2.0	ea.	\$7,000.00	\$14,000.00
PSE padmount primary transformer	1.0	ea.	\$40,000.00	\$40,000.00
sub-total			-	\$381,910.00
Costs Not Included:				
Emergency Responder Radio System				
Generator.				
1				
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TOTAL				\$390,311.75

Hazardous Materials Survey Report

Port of Skagit SWIFT Center Trevennen Hall 1798 Northern State Road Sedro-Woolley, Washington 98284

Prepared for: RMC Architects 1223 Railroad Avenue Bellingham, Washington 98225

September 2022 PBS Project 41140.018



Hazardous Materials Survey Report RMC Architects

Port of Skagit SWIFT Center – Trevennen Hall Sedro-Woolley, Washington

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Supporting Data

APPENDICES

Appendix A: RMC Architect Reference Drawings

Appendix B: PLM Bulk Sampling Information

PLM Bulk Sample Inventory
PLM Bulk Sample Laboratory Data Sheets
PLM Bulk Sample Chain of Custody Documentation

Appendix C: AA Lead Paint Chip Sampling Information

AA Lead Paint Chip Sample Inventory
AA Lead Paint Chip Laboratory Data Sheets
AA Lead Paint Chip Chain of Custody Documentation

Appendix D: PBS Inspector Certifications

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September 2022 PBS Project 41140.018 Hazardous Materials Survey Report Port of Skagit SWIFT Center – Fraser Building RMC Architects Sedro-Woolley, Washington

1 INTRODUCTION

1.1 Project Background

PBS Engineering and Environmental Inc. (PBS) performed a hazardous materials survey of the Trevennen Hall Building at the Port of Skagit SWIFT Center in Sedro-Woolley, Washington in conjunction with the planned renovation of the structure. The intent of this investigation is to ensure compliance with applicable regulatory requirements that a "good faith inspection" for asbestos-containing materials (ACMs) be performed prior to renovation activities.

All accessible areas associated with the project were inspected for the presence of ACMs, lead-containing paint (LCP), mercury containing components, and polychlorinated biphenyls (PCBs).

1.2 **Building Descriptions**

Trevennen Hall was originally constructed in 1938 and consists of a three-story concrete masonry structure with a pitched three-tab shingle roof encompassing approximately 13,736 square feet. Interior finishes consist of the following: concrete, ceramic floor tile, vinyl floor tile and carpet; plaster walls and ceilings. Exterior walls are concrete and textured plaster, and windows are wood, or metal framed.

1.3 Survey Process

Accessible areas included in the project scope were inspected by Asbestos Hazard Emergency Response Act (AHERA) Certified Building Inspector Janet Murphy (Cert. No. IMR-22-8300, Exp. 03/23/2023), on May 16, 2022. PBS endeavored to inspect all accessible areas of the scope of work. Inaccessible areas consist of those requiring selective demolition, fall protection, or confined space entry protocols to gain access.

When observed, suspect materials were sampled. All samples were assigned a unique identification number and transmitted for analysis to Seattle Asbestos Test (NVLAP #201057-0) under chain-of-custody protocols. Samples were analyzed according to EPA Method 600R-93/116 using Polarized Light Microscopy (PLM), which has a reliable limit of quantification of 1% asbestos by volume.

PBS endeavored to determine the presence and estimate the condition of suspect materials in all inaccessible areas included in the scope of work. While PBS has endeavored to identify the ACMs that may be found in concealed locations, additional unidentified ACMs may exist.

PBS field identified room numbers that are different from room numbers shown on RMC Architects drawings, which are included in Appendix A for reference. Room numbers presented in this report and in the sample inventories will be reported as "PBS field number (Corresponding RMC number)".

September 2022 PBS Project 41140.018

DRS

Hazardous Materials Survey Report
RMC Architects
Port of Skagit SWIFT Center – Fraser Building
Sedro-Woolley, Washington

2 FINDINGS

2.1 Asbestos-Containing Materials (ACMs)

The following materials were determined to contain **greater than 1% asbestos** as part of this investigation.

- 9" vinyl floor tile (gray and white) and associated black mastic First, second and third floor restroom floors approximately 90 SF;
- Exterior window and door frame caulk throughout approximately 17,000 LF.

The following materials sampled and found <u>not</u> to contain detectable concentrations of asbestos as part of this investigation:

- Yellow carpet mastic Hall
- Tan wrapped wire insulation in the first floor electric panel
- Black asphaltic wire insulation basement Boiler Room;
- Black woven wire insulation basement Boiler Room;
- Brown fiberboard wall panels (made to look like ceramic tile) with jute backing and brown mastic in all rooms at sink;
- Window pane putty throughout;
- Grout on glass block Rotunda windows;
- Black asphaltic coating on exterior concrete walls throughout;
- Exposed black mastic on wood and concrete floors throughout;
- Grout associated with terra cotta tile rotunda stairs;
- Terra cotta tile and mortar entry steps;
- Grout associated with 1" ceramic floor tiles Restrooms throughout;
- Mortar associated with 1" ceramic floor tiles Restrooms throughout;
- Grout associated with 4" ceramic wall tiles Restrooms throughout;
- Mortar associated with 4" ceramic wall tiles Restrooms throughout;
- Yellow mastic associated with 4" ceramic wall tiles Restrooms throughout;
- 4" brown cove base and associated dark brown mastic;
- Mortar between terra cotta blocks interior walls behind plaster;
- Textured plaster on concrete (exterior) all exterior walls;
- Plaster interior walls and ceilings throughout;
- 3-tab Roofing shingles, mastic and black paper over main roof;
- Black paper under sheet metal rotunda roof.

Refer to Appendix B for specific samples locations and associated laboratory analysis.



September 2022 PBS Project 41140.018

2

2.2 Lead-Containing Components

Ten (10) representative painted coatings were sampled for lead content. The samples were assigned unique identification numbers and transmitted to NVL Laboratories, Inc. (AIHA IH #101861) in Seattle, Washington under chain-of-custody protocols for analysis using Flame Atomic Absorption.

Lead was detected in the following painted coatings.

- Tan/Wood/Window Frame –Second floor exterior (6.2% lead)
- Brown/Concrete/Sill –First floor west exterior (1.5% lead)
- Pink/Plaster/Wall –Second floor, Room 12 (0.45% lead)
- Pink and Blue/Plaster/Wall Second floor restroom (0.10% lead)
- Tan/Wood/Balcony –Third floor east exterior (1.4% lead)
- Green/Plaster/Wall –Second floor hall (1.9% lead)
- Green/Plaster/Wall Third floor Rotunda (0.013lwad)
- White/Wood/Window frame Third floor hall (0.72% lead)
- Yellow/Concrete/Wall Exterior west wall (6.9%lead)
- Green/Plaster/Wall Basement stairwell (0.29% lead)

Refer to Appendix C for specific sample locations and associated laboratory analysis.

2.3 Mercury-Containing Components

All fluorescent light tubes are presumed to contain mercury. Approximately 6 four-foot and 35 compact fluorescent bulbs were observed in the accessible areas of the building.

2.4 PCB-Containing Components

PBS used a Phillips Ballast Checker to inspect representative fluorescent light fixture ballasts throughout the work areas. PBS did not observe magnetic ballasts. All ballasts should be inspected prior to being disposed of.

RECOMMENDATIONS

3.1 Asbestos-Containing Materials (ACMs)

PBS recommends that all ACMs that may be impacted by project activities be removed prior to impact. A qualified Washington State licensed asbestos abatement contractor should be employed to remove all such ACMs according to applicable local, state, and federal regulations.

The possibility exists that additional suspect ACMs may be present in concealed locations, including but not limited to, equipment, wall and ceiling cavities, and utility chases. These materials may include, but are not limited to, waterproofing membrane, internal gaskets, caulking and sealants of heating, ventilation, and air conditioning (HVAC) equipment and construction adhesives and wall mastics. In the event that suspect ACMs are uncovered during construction, contractors should stop work immediately and inform the owner promptly for confirmation testing. All untested materials should be presumed asbestos-containing or tested for asbestos content prior to impact.

3.2 Lead-Containing Components

Representative interior and exterior painted coatings were found to contain lead. Impact of painted surfaces with detectable concentrations of lead requires construction activities to be performed according to Washington State Department of Labor and Industries (L&I) regulations for Lead in Construction, Washington



September 2022

PBS Project 41140.018

Administrative Code (WAC) 296-155-176. All waste shall be handled in accordance with the State of Washington Department of Ecology Dangerous Waste Regulations (WAC 173-303).

Lead vent caps should be removed and recycled according to applicable state and federal regulations.

Painted coatings may exist in inaccessible areas of the work area or in secondary coatings. Any previously unidentified painted coatings not sampled should be considered lead containing until sampled and proven otherwise. Dust control and housekeeping is crucial in preventing worker exposures.

3.3 Mercury-Containing Components

Hazardous Materials Survey Report

RMC Architects

Fluorescent lamps and liquid thermostat switches are known to contain mercury vapor. PBS recommends that all fluorescent lamps and liquid thermostat switches be carefully handled and recycled/disposed of in accordance with the contract documents and applicable regulations during construction activities. Breakage of lamps and thermostat switches should be avoided to prevent potential exposures to mercury. L&I requires specific training, handling, engineering controls, and disposal practices when performing this work. All waste shall be handled in accordance with WAC 173-303.

3.4 PCB-Containing Components

PBS recommends all light ballasts be inspected prior to disposal. Magnetic ballasts, light fixtures with evidence of leaking ballasts, and wall-mounted transformers should be presumed to contain PCBs and properly removed, stored, transported and disposed of in accordance with WAC 173-303 and 40 CFR Part 761 Subpart D. If electronic ballasts (not magnetic) are identified within the building, they can be segregated from the magnetic ballast waste stream. Electronic ballasts do not contain PCBs and can be disposed of as general debris in compliance with applicable codes and endpoint facility requirements.

Please do not hesitate to contact us if you have any questions regarding this report or require additional information.

Report prepared by:

Janet Murphy

AHERA Building Inspector

Cert. # IMR-22-8300A, Exp. 3/2/2023

Report reviewed by:

Mark Hiley

Senior Project Manager

Mark a. Diley

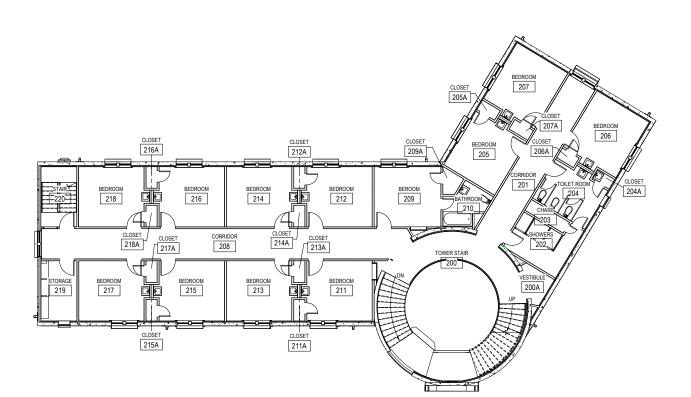


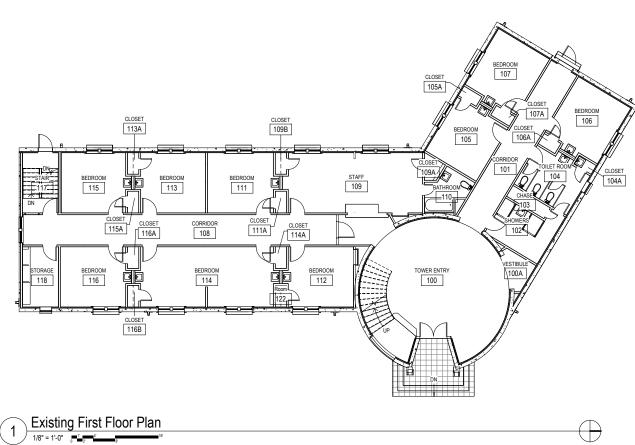




RMC Architects Reference Drawings

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Port of Skagit - SWIFT Center **Trevennen Hall Feasibility Study - Opton 1**Northern State Hospital Campus
Sedro-Woolley, WA 98284

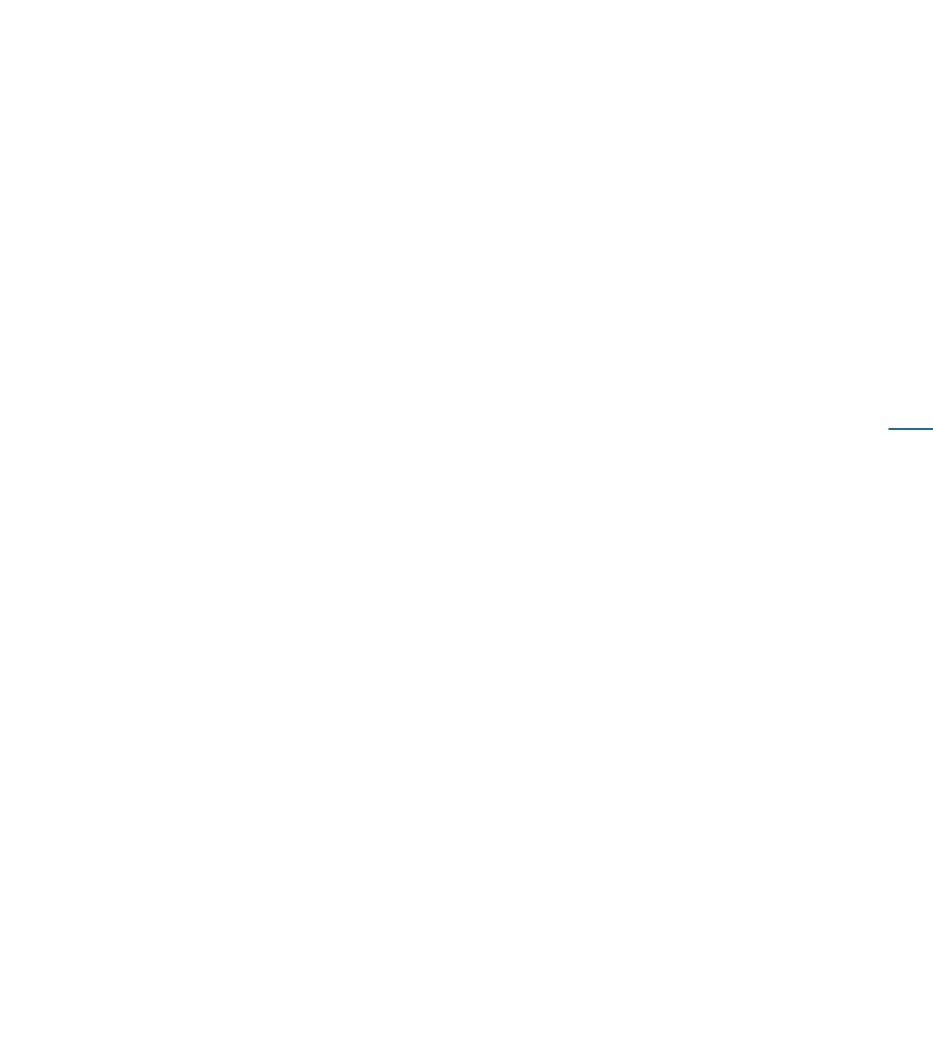
EXISTING FLOOR PLANS

E201

Issued for: SD/DD

RM (ARCHITECTS

Existing Second Floor Plan



APPENDIX B

PLM Bulk Sampling Information
PLM Bulk Sample Inventory
PLM Bulk Sample Laboratory Data Sheets
PLM Bulk Sample Chain of Custody Documentation

SWIFT Center - Trevennen Hall RMC Architects

PLM ASBESTOS SAMPLE INVENTORY

PBS Sample #	Material Type	Sample Location	Lab Description	<u>Lab Result</u>	<u>Lab</u>
41140.018 -01	Tan Wrapped Wire Insulation	1st Floor Electrical Panel	Layer 1: Tan paper	NAD	SAT
41140.018 -02	Asphaltic Wire Insulation	Basement Boiler Room	Layer 1: Trace black asphaltic material	NAD	SAT
41140.018 -03	Black Woven Wire Insulation	Basement Boiler Room	Layer 1: Black asphaltic material with woven fibrous material	NAD	SAT
			Layer 2: Black rubbery material	NAD	
			Layer 3: Metal core	NAD	
41140.018 -04	Red and Black Shingle with mastic	Roof Over 3rd Floor	Layer 1: Black asphaltic material with sand	NAD	SAT
	Gray Shingle with Mastic		Layer 2: Black asphaltic material	NAD	
	Black Asphaltic Paper		Layer 3: Black asphaltic material with sand	NAD	
			Layer 4: Black asphaltic material	NAD	
41140.018 -05	Black Asphaltic Paper	Under Metal Roof	Layer 1: Black asphaltic fibrous material	NAD	SAT
41140.018 -06	9" Gray Vinyl Floor Tile /	1st Floor in Restroom	Layer 1: Gray tile	2% Chrysotile	SAT
	Black Mastic		Layer 2: Black mastic	3% Chrysotile	
41140.018 -07	9" Gray Vinyl Floor Tile /	2nd Floor in Restroom	Layer 1: Gray tile	2% Chrysotile	SAT
	Black Mastic		Layer 2: Black mastic	3% Chrysotile	
41140.018 -08	Brown Sheet Vinyl with Jute	2nd Floor in Stair Landing	Layer 1: Brown sheet vinyl	NAD	SAT
	Backing and Mastic		Layer 2: Tan woven fibrous material	NAD	
			Layer 3: Brown fibrous material	NAD	
			Layer 4: Tan mastic	NAD	

PBS Sample #	Material Type	Sample Location	<u>Lab Description</u>	Lab Result	<u>Lab</u>
41140.018 -09	Brown Sheet Vinyl with Jute Backing and Mastic	3rd Floor Stairs	Layer 1: Brown sheet vinyl Layer 2: Tan woven fibrous material Layer 3: Brown fibrous material Layer 4: Tan mastic	NAD NAD NAD NAD	SAT
41140.018 -10	Brown Fibrous Wall Panel With Brown Mastic	3rd Floor Room 3-1 (306)	Layer 1: Brown fibrous material Layer 2: Brown mastic	NAD NAD	SAT
41140.018 -11	Brown Mastic Behind Fibrous Wall Panel Made to Look like Ceramic Tile	2nd Floor Room 2-5 (212)	Layer 1: Brown mastic	NAD	SAT
41140.018 -12	Window Pane Putty	3rd Floor Window	Layer 1: Brown mastic	NAD	SAT
41140.018 -13	Window Pane Putty	1st Floor Window	Layer 1: Gray brittle material with paint	NAD	SAT
41140.018 -14	Window Pane Putty	2nd Floor Window	Layer 1: Gray brittle material with paint	NAD	SAT
41140.018 -15	Glass Block Grout	3rd Floor Rotunda	Layer 1: Gray sandy/brittle material	NAD	SAT
41140.018 -16	Glass Block Grout	2nd Floor Rotunda	Layer 1: Gray sandy/brittle material	NAD	SAT
41140.018 -17	Glass Block Grout	1st Floor Rotunda	Layer 1: Gray sandy/brittle material	NAD	SAT
41140.018 -18	Red Carpet, Gray Backing / Brown Mastic	1st Floor Hall	Layer 1: Red woven fibrous material Layer 2: Brown mastic	NAD NAD	SAT

PBS Sample #	Material Type	Sample Location	Lab Description	<u>Lab Result</u>	<u>Lab</u>
			Layer 3: Gray foamy material	NAD	
41140.018 -19	Brown Mastic	2nd Floor Hall	Layer 1: Brown mastic	NAD	SAT
41140.018 -20	Black Asphaltic Coating on	2nd Floor Exit Wall	Layer 1: Trace black asphaltic material	NAD	SAT
	Concrete Wall		Layer 2: Trace gray sandy/brittle material	NAD	
41140.018 -21	Black Asphaltic Coating on	Basement Wall	Layer 1: Trace black asphaltic material	NAD	SAT
	Concrete Wall		Layer 2: Trace gray sandy/brittle material	NAD	
			Layer 3: Brown fibrous material	NAD	
41140.018 -22	Black Asphaltic Coating on	1st Floor Exterior Wall	Layer 1: Trace black asphaltic material	NAD	SAT
41140.010 -22	Concrete Wall	13t 11001 Exterior Wall	Layer 2: Trace gray sandy/brittle material	NAD	JAI
	Concrete wan		Layer 3: Brown fibrous material	NAD	
41140.018 -23	Black Mastic on Wood Floor	Room 3-4 (309) Restroom	Layer 1: Black asphaltic fibrous material	NAD	SAT
			Layer 2: Brown wood debris	NAD	
41140.018 -24	Black Mastic on Concreate Floor	Rotunda 3rd Floor	Layer 1: Black mastic with sand	NAD	SAT
41140.018 -25	Black Mastic on Concreate Floor	Rotunda 2nd Floor	Layer 1: Black mastic with sand	NAD	SAT
41140.018 -26	Black Mastic on Wood Floor	2nd Floor Storage Room	Layer 1: Black mastic	NAD	SAT
			Layer 2: Brown wood block	NAD	
41140.018 -27	Black Mastic and Paper	1st Floor Rotunda Floor	Layer 1: Black mastic with sand	NAD	SAT

PBS Sample #	Material Type	Sample Location	Lab Description	Lab Result	<u>Lab</u>
41140.018 -28	Black Mastic on Wood Floor	Room 1-10 (116)	Layer 1: Black mastic	NAD	SAT
			Layer 2: Trace brown wood block	NAD	
41140.018 -29	Black Mastic on Wood Floor	1st Floor Storage Room		NAD	SAT
41140.010 25	black Mastic off Wood Floor	13t Floor Storage Room	Layer 1: Black mastic Layer 2: Trace brown wood block	NAD	3A1
41140.018 -30	Black Mastic on Wood Floor	3rd Floor Storage Room	Layer 1: Black mastic	NAD	SAT
			Layer 2: Brown wood block	NAD	
41140.018 -31	Wall Plaster	Room 3-14 (311)	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41140.010 -31	wan riastei	NOOH 3-14 (311)	Layer 1. Gray Sandy/Brittle material with paint	NAD	SAT
41140.018 -32	Ceiling Plaster	Room 3-14 (311)	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41140.018 -33	Ceiling Plaster	Room 2-14 (211)	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41140.018 -34	Wall Plaster	Room 2-10 (219) Storage	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
11110.010 31	wan rase.	10 (213) 3tolage	Layer II. Gray Sarray, Strictle Material War paint	11/10	57 (1
41140.018 -35	Wall Plaster	Room 1-9 (119) Storage	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41140.018 -36	Ceiling Plaster	Room 1-13 (112)	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41140.018 -37	Gray Mastic and Plaster	3rd Floor Restroom Behind	Layer 1: Gray brittle material	NAD	SAT
	,	Covebase	Layer 2: Gray sandy/brittle material with paint	NAD	
41140.018 -38	Ceramic Cove Base	2nd Floor Restroom	Layer 1: Blue/tan ceramic	NAD	SAT
	Gray Mastic		Layer 2: Gray brittle/sandy material	NAD	
	Grout		Layer 3: Trace gray mastic	NAD	

PBS Sample #	Material Type	Sample Location	<u>Lab Description</u>	Lab Result	<u>Lab</u>
	Plaster		Layer 3: Gray brittle material	NAD	
			Layer 4: Trace white powdery material	NAD	
41140.018 -39	White Hexagonal Ceramic	1st Floor Restroom	Layer 1: White ceramic	NAD	SAT
	Floor tile and Grout		Layer 2: Trace clear mastic	NAD	
41140.018 -40	White Hovegonal Coromic Floor	2nd Floor Restroom	Lover 1. White coromic	NAD	SAT
41140.016 -40	White Hexagonal Ceramic Floor tile and Grout	Zha rioor kestroom	Layer 1: White ceramic Layer 2: Tan brittle material	NAD	SAT
	tile and Grout		Layer 3: Trace clear mastic	NAD	
			Layer 5. Trace clear mastic	NAD	
41140.018 -41	White Hexagonal Ceramic Floor tile	aı 3rd Floor Restroom	Layer 1: Tan ceramic	NAD	SAT
			Layer 2: Tan brittle material	NAD	
			Layer 3: Trace clear mastic	NAD	
41140.018 -42	Terra Cotta Tile and Grout	1st Floor Rotunda Stairs	Layer 1: Red brittle material	NAD	SAT
			Layer 2: Gray brittle material	NAD	
41140.018 -43	Terra Cotta Tile and Grout	Exterior Entry Stairs	Layer 1: Red/gray brittle material	NAD	SAT
			Layer 2: Gray brittle material	NAD	
411.40.01044	W. I. F. C. I.	E . E !: M/!		207 61 41	CAT
41140.018 -44	Window Frame Sealant	East Exit Window	Layer 1: Gray brittle material with paint	2% Chrysotile	SAT
41140.018 -45	Window Frame Sealant	West Exit Window	Layer 1: Gray brittle material with paint	2% Chrysotile	SAT
			, c, a	,	
41140.018 -46	Door Frame Sealant	West Exit Door	Layer 1: Gray brittle material with paint	2% Chrysotile	SAT
41140.018 -47	Door Frame Sealant	Southwest Exit Door	Layer 1: Gray brittle material with paint	2% Chrysotile	SAT

SWIFT Center - Trevennen Hall RMC Architects

PBS Sample #	Material Type	Sample Location	Lab Description	Lab Result	<u>Lab</u>
41140.018 -48	Texture on Concrete	West Exit Wall	Layer 1: Gray hard sandy/brittle material with paint	NAD	SAT
41140.018 -49	Texture on Concrete	West Exit Wall	Layer 1: Yellow hard sandy/brittle material	NAD	SAT
			Layer 2: Gray hard sandy/brittle material	NAD	
41140.018 -50	Texture on Concrete	East Exit Wall	Layer 1: Yellow hard sandy/brittle material	NAD	SAT
			Layer 2: Gray hard sandy/brittle material	NAD	
41140.018 -51	Texture on Concrete	North Exit Wall	Layer 1: Yellow hard sandy/brittle material	NAD	SAT
			Layer 2: Gray hard sandy/brittle material	NAD	
41140.018 -52	Texture on Concrete	South Exit Wall	Layer 1: Yellow hard sandy/brittle material	NAD	SAT
			Layer 2: Gray hard sandy/brittle material	NAD	

SEATTLE ASBESTOS TEST, LLC

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code:

www.seattleasbestostest.com, admin@seattleasbestostest.com

Project Manager: Mark Hiley

Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Tel: 206.233.9639

Date Report Issued: 5/18/2022,

Date Analyzed: 5/18/2022 Client Job#: 41140,018

Project Location: Trevennen Hall

Laboratory batch#: 202210023 Samples Received: 52

Enclosed please find the test results for the bulk samples submitted to our laboratory for asbestos analysis. Analysis was performed using polarized light microscopy (PLM) in accordance with Test Method US EPA - 40 CFR Appendix E of Part 763, Interim Method of Determination of Asbestos in Bulk Insulation Samples and Test Method US EPA/600/R-93/116.

Percentages for this report are done by visual estimate and relate to the suggested acceptable error ranges by the method. Since variation in data increases as the quantity of asbestos decreases toward the limit of detection, the EPA recommends point counting for samples containing between <1% and 10% asbestos (NESHAP, 40 CFR Part 61). Statistically, point counting is a more accurate method. If you feel a point count might be beneficial, please feel free to call and request one.

The test results refer only to the samples or items submitted and tested. The accuracy with which these samples represent the actual materials is totally dependent on the acuity of the person who took the samples. This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government. The test report or calibration certificate shall not be reproduced except in full, without written approval of the laboratory. If the sample is inhomogeneous the sub-samples of the components are analyzed separately as layers. This report in its entirety consists of this cover leter, the customer sampling COC or data sheet, and the analytical report which is page numbered.

This report is highly confidential and will not be released without your consent. Samples are archived for 30 days after the analysis, and disposed of as hazardous waste thereafter.

Thank you for using our service and let us know if we can further assist you.

Sincerely

Schang

Steve (Fanyao) Zhang Approved Signatory



SAT 2022/0023 LABORATORY CHAIN OF CUSTODY

Project: Trevennen	Hall	Project #: 411.40.018
Analysis requested: PLA	1	Date: May 16, 2022
Reling'd by/Signature:	net much	Date/Time: May 16, 2022
Received by/Signature:	sa ber	Date/Time: 5/17/22 1
	Email ALL INVOICES to: seattleap	Ophsusa.com
E-mail results to:		
Willem Mager	Janet Murphy	☐ Holly Tuttle
Gregg Middaugh	☐ Kaitlin Soukup	Mike Smith
Mark Hiley	Allison Welch	Ferman Fletcher
Tim Ogden	Toan Nguyen	Cameron Budnick
Ryan Hunter	Peter Stensland	Kameron DeMonnin
Prudy Stoudt-McRae	Claire Tsai	<u> </u>
TURN AROUND TIME:		
1 Hour	24 Hours	3-5 Days
2 Hours	48 Hours	Other
4 Hours	7	

	SAMPLE DATA F	ORM	
Sample #	Material	Location	Lab
_1	Tan Wropped Wire Insulation	1st Fl. Elect. Panel	
2	Asphaltic Wire Insulation	Basement Boiler RM.	
3	Block Woven Wire Insulation	Basement Boiler Rm	
4.	Red and Block-Shirale W/mostic	Roof over 3rd Fl.	
	Gray Shingle W/ mastic		
	Black Asphaltic Paper		
5.		Under Metal Roof	
6.	9" Gray VFT/Black Mastic	1st Fl in Restroom	
7.	9" Gray VFT/Black Mastic	2nd Flin Restroom	
8	Brown Sheet Viny / With Jute	2rd Fr. Stair landing	
	Backing and Mastic	3rd Fl. Stairs	
9.	211		
10.	Brown F. brows Wall Panel w/ Brown.	3rd Fl. Rm, 3-1	
11.	Brown Mastic Behind		
		2nd Fl. Rm. 2-5	
	like Ceramic Tip		
12,	Window Pane Putty	3rd Fl. Window	
13,	Window Paneputty	15T Fl. Window	

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PBS

202210023 LABORATORY CHAIN OF CUSTODY

Project: Trevennen	Hall	Project #: 41140.018
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Received by/Signature:	17:0	Date/Time: 5/16/22 16:05
	Email ALL INVOICES to: seattleaps	@pbsusa.com
E-mail results to:		
☐ Willem Mager	✓ Janet Murphy	☐ Holly Tuttle
Gregg Middaugh	Kaitlin Soukup	Mike Smith
Mark Hiley	Allison Welch	Ferman Fletcher
☐ Tim Ogden	☐ Toan Nguyen	Cameron Budnick
Ryan Hunter	Peter Stensland	Kameron DeMonnin
Prudy Stoudt-McRae	Claire Tsai	ā
TURN AROUND TIME:		
1 Hour	24 Hours	3-5 Days
2 Hours	48 Hours	Other
4 Hours	A continued	

	SAMPLE DATA	FORM	
Sample #	Material	Location	Lab
14.	Window Pane Putty	2nd Fl. Window	
15.	Glass Block Grout	3rd FI. Rotunda	
16.	Glass Block Grout	2 nd Fl. Rotunda	
17.	Glass Black Grout	1st Fl. Retunda	
18.	Red Corpet, Gray Backing.	157 Fl. Fl. Hall	
	Brown Mastic		
19.	Brown Mostic	2nd F1. Hall	
20.	Black Asphaltic Conting on wall	2nd Fl. Ext. Woll	
21,	11)	Basemen boll	
22	. 11	1st FI. Exterior hall	
23	Black Mastic on Wood Floor	Rm 3-4 Restroom	
24	Black Mastic on Concrde FL	Rotunda 3rd Fl.	
25	Black Mastic on Concrete	Rotunda 2nd Fl.	
26	Black Mastic on wood Floor	2nd Fl. Storage Rm.	
27	Black Mastic and Paper	1st P. Rotunda Floor	
28	Black Mostic on wood Floor	Rm 1-10	
29	Block Mastic on Wood Floor	1st Floor Storage Rm	
30	Black Mastic on wood Floor	3rd Floor Storage Rm	

THE EAST DALLS STREET SHIFT WAS DEATTED WAS DRIVEN SOR SHIP WHEN A PROPERTY CHARGE TAKEN STREET, AND THE



2022 (0023) LABORATORY CHAIN OF CUSTODY

Project: Trevennen	Hall	Project #: 4// 40,0/8
Analysis requested:	PLM	Date: May 16, 2022
Relinq'd by/Signature:	Jamet mengh	Date: May 16, 2022 Date/Time: May 16, 2022
Received by/Signature:		Date/Time: 5/17/22 10
	Email ALL INVOICES to: seattleapt	phsusa.com
E-mail results to:		
☐ Willem Mager	✓ Janet Murphy	☐ Holly Tuttle
Gregg Middaugh	Kaitlin Soukup	Mike Smith
Mark Hiley	Allison Welch	Ferman Fletcher
☐ Tim Ogden	Toan Nguyen	Cameron Budnick
Ryan Hunter	Peter Stensland	Kameron DeMonnin
Prudy Stoudt-McRae	Claire Tsai	Ē
TURN AROUND TIME:		
1 Hour	24 Hours	3-5 Days
2 Hours	48 Hours	Other
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	SAMPLE DATA	FORM	
Sample #	Material	Location	Lat
31.	Wall Plaster	3rd F1. 3-14	
32	Cilling Plaster	3rd F1. 3-14	
33.	Ceiting Plaster	2nd F1, 2-14	
34,	Wall Plaster	2nd Pl. 2-10 Storage	
35	Wall Plaster	15t. F1 1-9 Storage	
36.	Ceiling Plaster	1st. Fl. 1-13	
37	Gruy Mastic and Plaster	3rd Fl. RR Behind Covebage	
38.	Ceramic Covebase	2nd Fl. Restroom	
	Gray Mostic		
	Grout		
	Plaster		
39	White Hexagonal Floor Tile and Growt	1st Fl. Restroom	
40	11	2nd Fl. Restroom	
41,	4	3rd Fl. Restooom	
42	Terra Cotta Tile and Grout	1st Fl. Rotunda Stairs	
43	Terra Cotta Tile and Grout		
44	Window Frame Sealant	E. Ext. Window	
45	Window Frame Scalant	W. Ext. Window	

THE EAST GASEN STREET SOLIS SITE SEASTS WARREST FLOOR FOR MATER 869 OF SHIELDAR A PROSECULAR OF

PBS

2012/0023

LABORATORY CHAIN OF CUSTODY

Project: Trevennen	Hall	Project #: 4 // 40,0/8
Analysis requested: PL	-M	Date: May 16, 2022 Date/Time: May 16, 2022
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Received by/Signature:/		Date/Time: 6/17/74 16; 05
	Email ALL INVOICES to: seattleaps	Dpbsusa.com
E-mail results to:		
☐ Willem Mager	☑ Janet Murphy	☐ Holly Tuttle
Gregg Middaugh	☐ Kaitlin Soukup	Mike Smith
Mark Hiley	Allison Welch	Ferman Fletcher
Tim Ogden	Toan Nguyen	Cameron Budnick
Ryan Hunter	Peter Stensland	Kameron DeMonnin
Prudy Stoudt-McRae	Claire Tsai	Ď
TURN AROUND TIME:		
1 Hour	24 Hours	3-5 Days
2 Hours	48 Hours	Other
4 Hours		

	SAMPLE DATA	FORM	
Sample #	Material	Location	Lab
46,	Door Frame Sealant	W. Ext. Door	
47.	Door Frame Scalant.	Sw. Ext. Poor	
48.	Texture on Concrete	W. Ext. Wall	
49.	1)	W. Ext. Wall	4
50.	()	E. Ext. Wall	
51.	- 4	N. Ext. Wall	
52.	1	5. Ext. Well	
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THE EAST GALER STREET SHITE IN SEATTLE WAS DELICED A 200 CLUBES MAIN A BAR TO THAN BAK A TRULE IN INC.

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

Disclaimer: This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the

ANALYTICAL LABORATORY REPORT

[PLM] EPA - 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples; EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials client: PBS Engineering and Environmental, Seattle Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Attn.: Mark Hiley

Date Received: 5/17/2022

SZhang

Batch#: 202210023 Job#: 41140.018 Date Analyzed: 5/18/2022 Samples Rec'd: 52

Project Loc.: Trevennen Hall

			Analyzed by	Cicle	MI /	Approved Signatory:	Steve (Fanyao) Zhang, President
ID	Client Sample ID	Layer	Description	1%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
	1	1	Tan paper		None detected	Filler	75	Cellulose
2	2	1	Trace black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		1	Black asphaltic material with woven fibrous		None detected	Asphaltic/binder, Filler	37	Cellulose

							_	
2	2	1	Trace black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		1	Black asphaltic material with woven fibrous material		None detected	Asphaltic/binder, Filler	37	Cellulose
3	3	2	Black rubbery material		None detected	Rubber/binder	3	Cellulose
		3	Metal core		None detected	Metal		None detected
		1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	25	Glass fibers
		2	Black asphaltic material	d	None detected	Asphalt/binder	3	Cellulose
4	4	3	Black asphaltic material with sand	1	None detected	Asphalt/binder, Sand	23	Glass fibers
	1-12	4	Black asphaltic material		None detected	Asphalt/binder	4	Cellulose
		5	Black asphaltic fibrous material		None detected	Filler, Asphalt, Binder	67	Cellulose
5	5	1	Black asphaltic fibrous material		None detected	Filler, Asphalt, Binder	69	Cellulose
6	6	1	Gray tile	2	Chrysotile	Vinyl/binder, Mineral grains	2	Cellulose
· C	(2)	2	Black mastic	3	Chrysotile	Mastic/binder	4	Cellulose
7	7	1	Gray tile	2	ENGLE ALLEY	Vinyl/binder, Mineral grains	3	Cellulose
		2	Black mastic	3	Chrysotile	Mastic/binder	3	Cellulose
		1	Brown sheet vinyl		None detected	Vinyl/binder		None detected
		2	Tan woven fibrous material		None detected	Filler, Binder	85	Synthetic fiber
8	8	3	Brown fibrous material		None detected	Binder/filler	65	Cellulose
		4	Tan mastic		None detected	Mastic/binder	2	Cellulose
		1	Brown sheet vinyl		None detected	Vinyl/binder		None detected
9	9	2	Tan woven fibrous material		None detected	Filler, Binder	83	Synthetic fibe
9	9	3	Brown fibrous material		None detected	Binder/filler	64	
		4	Tan mastic		None detected	Mastic/binder	3	Cellulose
10	10	1	Brown fibrous material		None detected	Binder, Filler, Perlite	85	Cellulose

1 of 5

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 260768-0

Disclaimer: This report must not be used by the client to claim product certification, approval, or endorsement by Saattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the

ANALYTICAL LABORATORY REPORT

[PLM] EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples:
EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

[PLM]

177

client: PBS Engineering and Environmental, Seattle Attn.: Mark Hiley

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Job#: 41140.018

Batch#: 202210023

Date Received: 5/17/2022 ples Analyzed: 52

Date Analyzed: 5/18/2022 Samples Rec'd: 52

Lab ID	Client Sample ID	Layer	Description 9	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
10	10	2	Brown mastic	None detected	Mastic/binder	2	Cellulose
11	11	1	Brown mastic	None detected	Mastic/binder	3	Cellulose
12	12	1	Gray brittle material with paint	None detected	Filler, Binder, Paint	2	Cellulose
13	13	1	Gray brittle material with paint	None detected	Filler, Binder, Paint	3	Cellulose
14	14	1	Gray brittle material with paint	None detected	Filler, Binder, Paint	2	Cellulose
15	15	1	Gray sandy/brittle material	None detected	Sand, Filler, Binder	3	Cellulose
16	16	1	Gray sandy/brittle material	None detected	Sand, Filler, Binder	5	Cellulose
17	17	1	Gray sandy/brittle material	None detected	Sand, Filler, Binder	4	Cellulose
		1	Red woven fibrous material	None detected	Filler, Binder	85	Synthetic fibers
18	18	2	Brown mastic	None detected	Mastic/binder	3	Cellulose
		3	Gray foamy material	None detected	Synthetic foam		None detected
19	19	1	Brown mastic	None detected	Mastic/binder	5	Synthetic fibers Cellulose
		1	Trace black asphaltic material	None detected	Asphalt/binder	3	Cellulose
20	20	2	Trace gray sandy/brittle material	None detected	Sand, Filler, Binder	3	Cellulose
		1	Trace black asphaltic material	None detected	Asphalt/binder	2	Cellulose
21	21	2	Trace gray sandy/brittle material	None detected	Sand, Filler, Binder	3	Cellulose
		3	Brown fibrous material	None detected	Binder, Filler, Perlite	84	Cellulose
		1	Trace black asphaltic material	None detected	Asphalt/binder	3	Cellulose
22	22	2	Trace gray sandy/brittle material	None detected	Sand, Filler, Binder	4	Cellulose
		3	Brown fibrous material	None detected	Binder, Filler, Perlite	82	Cellulose
		1	Black asphaltic fibrous material	None detected	Filler, Asphalt, Binder	67	Cellulose
23	23	2	Brown wood debris	None detected	Wood debris	7	Cellulose

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

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ANALYTICAL LABORATORY REPORT

[PLM] EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method for the Determination of Asbestos in Bulk Insulation Samples;
EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

client: PBS Engineering and Environmental, Seattle Attn.: Mark Hiley

Date Received: 5/17/2022

Job#: 41140.018 Batch#: 202210023 Date Analyzed: 5/18/2022 Samples Rec'd: 52

Project Loc.: Trevennen Hall

JZ hang Approved Signatory: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	% Asbestos	Fibers Non-fibrous Components	%	Non-asbestos Fibers
24	24	1	Black mastic with sand	None detected	Mastic/binder, Sand	5	Cellulose
25	25	1	Black mastic with sand	None detected	Mastic/binder, Sand	4	Cellulose
	43	1	Black mastic	None detected	Mastic/binder	5	Cellulose
26	26	2	Brown wood block	None detected		4	Cellulose
27	27	1	Black mastic with sand	None detected	Mastic/binder, Sand	5	Cellulose
		1	Black mastic	None detected	Mastic/binder	4	Cellulose
28	28	1	Trace brown wood block	None detected	Wood aggregates	4	Cellulose
60		1	Black mastic	None detected	Mastic/binder	3	Cellulose
29	29	2	Trace brown wood block	None detected	Wood aggregates	5	Cellulose
		1	Black mastic	None detected	Mastic/binder	2	Cellulose
30	30	2	Brown wood block	None detected		4	Cellulose
31	31	1	Gray sandy/brittle material with paint	None detected		3	Cellulose
32	32	1	Gray sandy/brittle material with paint	None detected		4	Cellulose
33	33	1	Gray sandy/brittle material with paint	None detected		5	Cellulose
34	34	1	Gray sandy/brittle material with paint	None detected		3	Cellulose
35	35	1	Gray sandy/brittle material with paint	None detected		5	Cellulose
36	36	1	Gray sandy/brittle material with paint	None detecte	Sand, Filler, d Binder, Paint	3	Cellulose
0.77	07	1	Gray brittle material	None detecte		2	Cellulose
37	37	2	Gray sandy/brittle material with paint	None detecte	Sand, Filler, d Binder, Paint	4	Cellulose
		1	Blue/tan ceramic	None detecte	d Ceramic/binder		None detecte
38		2	Gray brittle/sandy material	None detecte	d Binder, Sand	2	Cellulose
	38	3	Trace gray mastic	None detecte	d Mastic/binder	2	Cellulose
		3	Gray brittle material	None detecte	Filler, Binder	2	Cellulose
		4	Trace white powdery material	None detecte	Filler, Binder	3	Cellulose

2 of 5 3 of 5

SEATTLE ASBESTOS TEST

Lyanwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

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ANALYTICAL LABORATORY REPORT

[PLM] EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples;
EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials [PLM]

Client: PBS Engineering and Environmental, Seattle Attn.: Mark Hiley

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102 Date Received: 5/17/2022

Batch#: 202210023 Job#: 41140.018 Samples Rec'd: 52

Date Analyzed: 5/18/2022

Project Loc.: Trevennen Hall

SZhang Approved Signatory: Steve (Fanyao) Zhang, President

.ab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fiber	
		1	White ceramic		None detected	Ceramic/binder		None detected	
39	39	2	Trace clear mastic		None detected	Mastic/binder	3	Cellulose	
		1	White ceramic		None detected	Ceramic/binder		None detected	
40	40	2	Tan brittle material		None detected	Filler, Binder	2	Cellulose	
		3	Trace clear mastic		None detected	Mastic/binder	3	Cellulose	
		1	Tan ceramic		None detected	Ceramic/binder		None detected	
41	41	2	Tan brittle material		None detected	Filler, Binder	2	Cellulose	
			3	Trace clear mastic		None detected	Mastic/binder	4	Cellulose
N.		1	Red brittle material		None detected	Filler, Binder	2	Cellulose	
42	42	2	Gray brittle material		None detected	Filler, Binder	2	Cellulose	
		1	Red/gray brittle material		None detected	Filler, Binder	3	Cellulose	
43	43	2	Gray brittle material		None detected	Filler, Binder	2	Cellulose	
44	44	1	Gray brittle material with paint	2	Chrysotile	Filler, Binder, Paint	2	Cellulose	
45	45	1	Gray brittle material with paint	2	Chrysotile	Filler, Binder, Paint	3	Cellulose	
46	46	1	Gray brittle material with paint	2	Chrysotile	Filler, Binder, Paint	4	Cellulose	
47	47	1	Gray brittle material with paint	2	Chrysotile	Filler, Binder, Paint	2	Cellulose	
48	48	1	Gray hard sandy/brittle material with paint		None detected	Sand, Filler, Cement/binder, Paint, Debris	5	Cellulose	
	40	1	Yellow hard sandy/brittle material		None detected	Sand, Filler, Cement/binder	3	Cellulose	
49	49	2	Gray hard sandy/brittle material		None detected	Sand, Filler, Cement/binder	3	Cellulose	
		1	Yellow hard sandy/brittle material		None detected	Sand, Filler, Cement/binder	2	Cellulose	
50	50	2	Gray hard sandy/brittle material		None detected	Sand, Filler, Cement/binder	4	Cellulose	

4 of 5 5 of 5

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

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ANALYTICAL LABORATORY REPORT

[PLM] EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples; EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Client: PBS Engineering and Environmental, Seattle Address: 214 E Galer Street, Suite 300, Seattle, WA 98102 Attn.: Mark Hiley

[PLM]

Shang

Cement/binder

Date Received: 5/17/2022 Samples Analyzed: 52 Batch#: 202210023 Job#: 41140.018 Date Analyzed: 5/18/2022

Samples Rec'd: 52 Project Loc.: Trevennen Hall

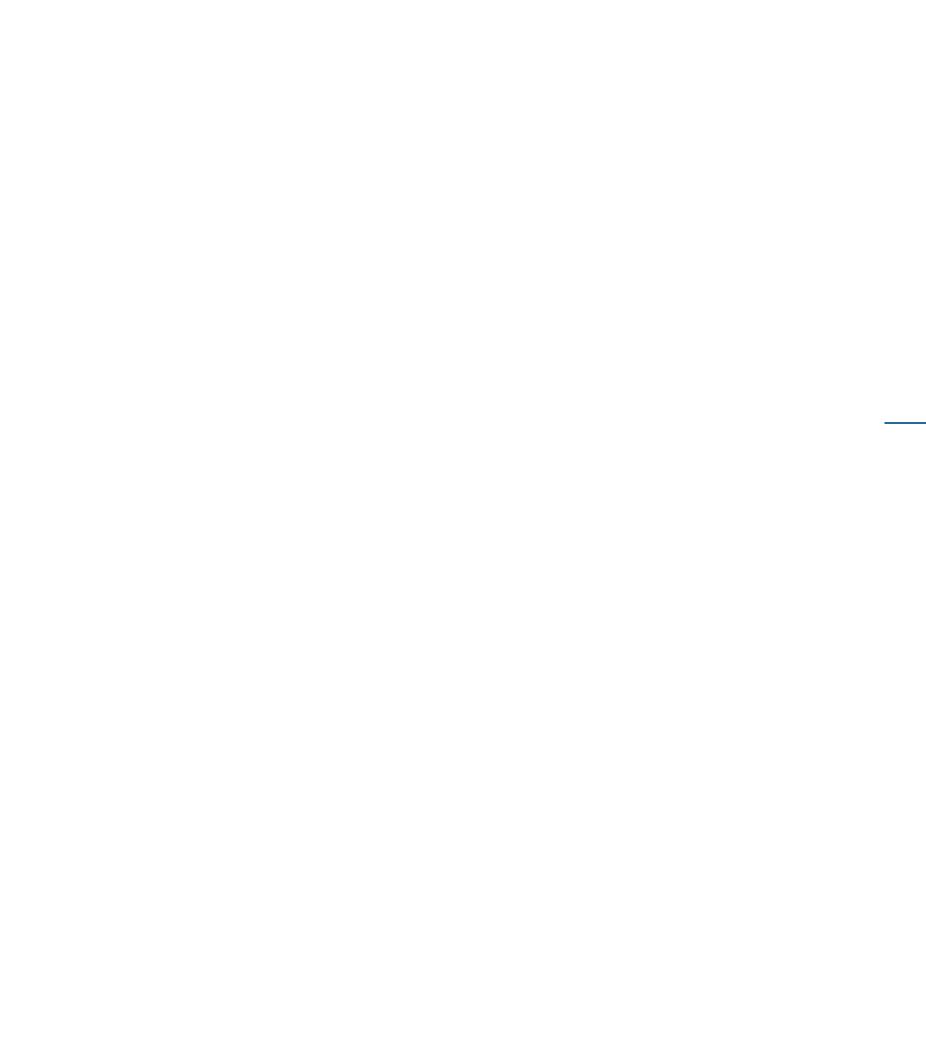
sandy/brittle

material

2

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
		1	Yellow hard sandy/brittle material		None detected	Sand, Filler, Cement/binder	3	Cellulose
51	51 51	2	Gray hard sandy/brittle material		None detected	Sand, Filler, Cement/binder	3	Cellulose
60		1	Yellow hard sandy/brittle material		None detected	Sand, Filler, Cement/binder	2	Cellulose
52	52	2	Gray hard		None	Sand, Filler,	3	Cellulose

detected



APPENDIX C

AA Lead Paint Chip Sampling Information

AA Lead Paint Chip Sample Inventory

AA Lead Paint Chip Laboratory Data Sheets

AA Lead Paint Chip Chain of Custody Documentation

AA LEAD PAINT CHIP SAMPLE INVENTORY

PBS Sample #	Paint Color / Component or Substrate	Sample Location	Results (mg/kg)	Results (%)	<u>Lab</u>
41140.018 -Pb01	Tan / Wood / Window Frame	2nd Floor exterior	62000.0	6.20	NVL
41140.018 -Pb02	Brown / Concrete / Sill	1st Floor West Exterior	15000.0	1.50	NVL
41140.018 -Pb03	Pink / Plaster / Wall	Room 2 - 12 (215)	4500.0	0.45	NVL
41140.018 -Pb04	Blue Pink / Plaster / Wall	2nd Floor Restroom	1000.0	0.10	NVL
41140.018 -Pb05	Tan / Wood / Balcony	3rd Floor East	14000.0	1.40	NVL
41140.018 -Pb06	Green / Plaster / Wall	2nd Floor Hall	19000.0	1.90	NVL
41140.018 -Pb07	Green / Plaster / Wall	3rd Floor Rotunda	130.0	0.013	NVL
41140.018 -Pb08	White / Wood / Window Frame	3rd Floor Hall	7200.0	0.72	NVL
41140.018 -Pb09	Yellow / Concrete / Wall	Exit West Wall	69000.0	6.90	NVL
41140.018 -Pb10	Green / Plaster / Wall	Basement Stairwell	2900.0	0.29	NVL

May 18, 2022





NVL Batch # 2209247.00

Total Metal Analysis

Method: EPA 7000B Lead by FAA <paint>

Item Code: FAA-02

Client Project: 41140.018 Location: Trevennen Hall

Dear Mr. Hiley,

NVL Labs received 10 sample(s) for the said project on 5/17/2022. 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. 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 Lab

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

page 1 of 4

Analysis Report

Total Lead (Pb)

Client: PBS Environmental - Seattle Address: 214 E Galer St. Suite. 300

Seattle, WA 98102

Attention: Mr. Mark Hiley Project Location: Trevennen Hall

Batch #: 2209247.00

Matrix: Paint Method: EPA 3051/7000B Client Project #: 41140.018 Date Received: 5/17/2022 Samples Received: 10

Samples Analyzed: 10

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
22358500	41140.018-Pb1	0.1876	53	62000	6.2
22358501	41140.018-Pb2	0.1996	50	15000	1.5
22358502	41140.018-Pb3	0.1801	56	4500	0.45
22358503	41140.018-Pb4	0.1813	55	1000	0.10
22358504	41140.018-Pb5	0.2029	49	14000	1.4
22358505	41140.018-Pb6	0.1981	50	19000	1.9
22358506	41140.018-Pb7	0.1826	55	130	0.013
22358507	41140.018-Pb8	0.2011	50	7200	0.72
22358508	41140.018-Pb9	0.1967	51	69000	6.9
22358509	41140.018-Pb10	0.1811	55	2900	0.29

Sampled by: Client

Analyzed by: Yasuyuki Hida Reviewed by: Shalini Patel

Date Analyzed: 05/18/2022 Date Issued: 05/18/2022 Shalini Patel, Manager Metals Lab

RL = Reporting Limit

'<' = Below the reporting Limit

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

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: 2022-0518-03

FAA-02

page 2 of 4

LEAD LABORATORY SERVICES



Α

Company	PBS Environmental - Seattle	NVL Batch Number 2209247.00
Address	214 E Galer St. Suite. 300	TAT 1 Day AH No.
	Seattle, WA 98102	Rush TAT
Project Manager	Mr. Mark Hiley	Due Date 5/18/2022 Time 3:40 PM
Phone	(206) 233-9639	Email mark.hiley@pbsusa.com
Office:	(800) 628-9639	Fax (866) 727-0140

Proj	ect Name/N	lumber: 41140.018	Project Location: Trevennen Ha	11
Subc	ategory Fla	me AA (FAA)		
Ite	m Code FA	A-02	EPA 7000B Lead by FAA <paint></paint>	
То	tal Numb	er of Samples	10	Rush Samples
	Lab ID	Sample ID	Description	A/R
1	22358500	41140.018-Pb1		A
2	22358501	41140.018-Pb2		A
3	22358502	41140.018-Pb3		A
4	22358503	41140.018-Pb4		A
5	22358504	41140.018-Pb5		A
6	22358505	41140.018-Pb6		A
7	22358506	41140.018-Pb7		A
8	22358507	41140.018-Pb8		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Courier				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/17/22	1540
Analyzed by	Yasuyuki Hida		NVL	5/18/22	
Results Called by					
☐ Faxed ☐ Emailed					
Special			·		

Date: 5/17/2022 Time: 4:12 PM Entered By: Kelly AuVu

9 22358508

10 22358509

41140.018-Pb9

41140.018-Pb10

NVL



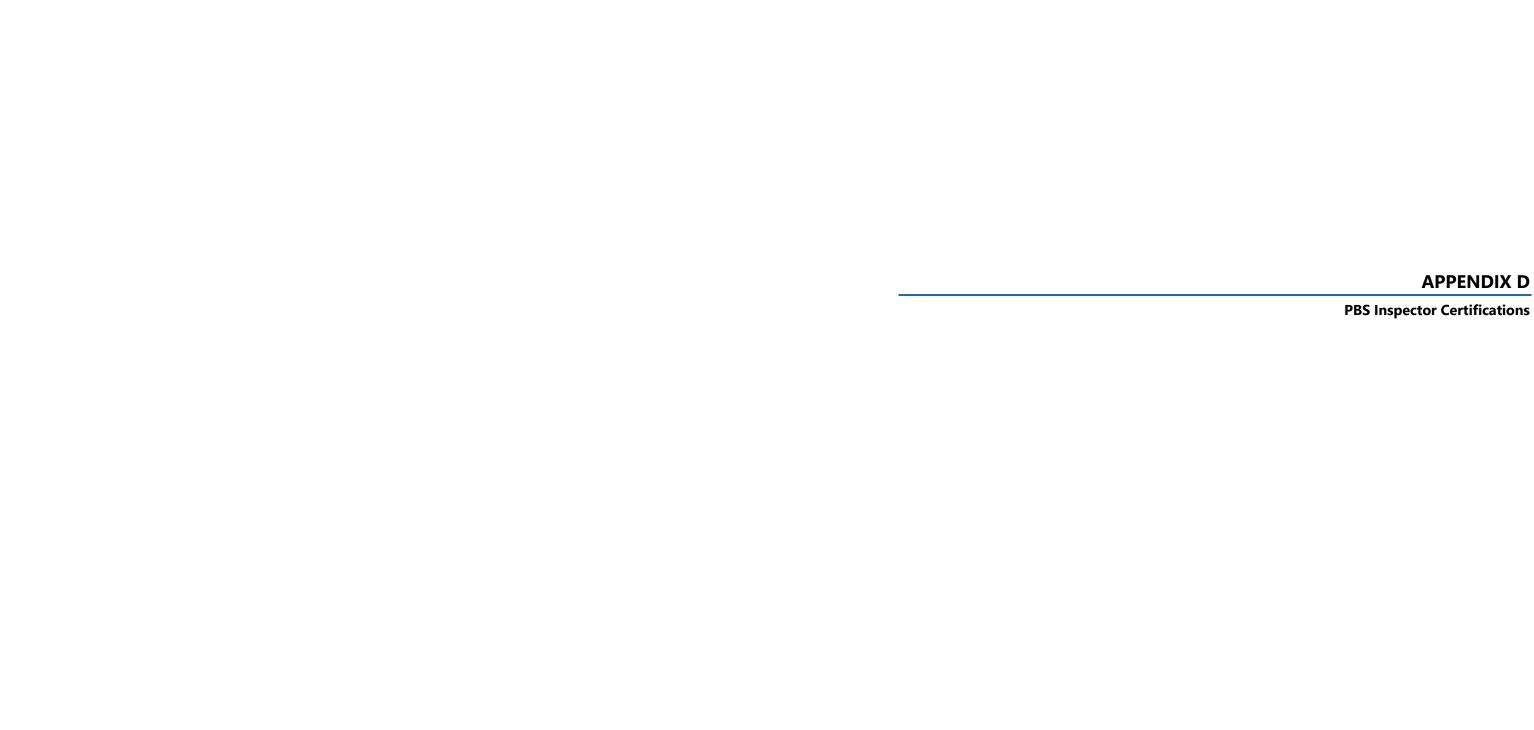
LABORATORY CHAIN

2209247

Project: Treve	nnen Hall	Project #: 411 40. 018
Analysis requested:	Lead AAS	Date: May 16, 2022 Date/Time: May 16, 2022
Reling'd by/Signature:	ganet murph	Date/Time: May 16, 2022
Received by/Signature:	langear e kun	Date/Time: 5 17 > 1540
	Email ALL INVOICES to: seattleap@pbsu	Sa.com
E-mail results to:		Z III
Willem Mager	Janet Murphy	Holly Tuttle
Gregg Middaugh	Kaitlin Soukup	Mike Smith
Mark Hiley	Allison Welch	Ferman Fletcher
Tim Ogden	Toan Nguyen	Cameron Budnick
Ryan Hunter	Peter Stensland	Kameron DeMonnin
Prudy Stoudt-McRae	Claire Tsai	5
TURN AROUND TIME:		
1 Hour	☑ 24 Hours	3-5 Days
2 Hours	48 Hours	Other
4 Hours		

	SAMPLE DATA I	FORM	
Sample #	Material	Location	Lal
PbI	Ton/ Wood / Window Frame	2rd Fl. Exterior	
Pb2	Brown / Concrete / 5:11	1st Fl. W. Exterior	
Pb3	Pink / Plaster / Wall	2-12	
P 64	Bive / Plaster / Wall	2nd Fl. Restroom	
P65	Jan / Wood / Balconey	3rd Fl. E.	
P56	Green / Plaster / Wall	2nd Fl. Hall	
Pb7	Green IPlaster 1 hall	3rd Fl. Rotunda	
PbB	White I Wood / Window Frame	3rd Fl. Hall	
P69	Yellow / Concrete / by/	Ext. W. Wall	
Pblo	Green / Plaster / hall	Basement Stairwell	
	-		

214 EAST GALER STREET SUITE 300 SEATTLE WA 98102 + 206 231 9639 MAIN + 866 127 0140 FAX + P85USA COM



THIS IS TO CERTIFY THAT

JANET MURPHY

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE for

ASBESTOS INSPECTOR / MANAGEMENT PLANNER REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date:

03/23/2022

Course Location:

Online,

Certificate:

IMR-22-8300A



CCB #SRA0615 4-Hr Training

AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date:

03/23/2023

For verification of the authenticity of this certificate contact:
PBS Engineering and Environmental Inc.

4412 S Corbett Avenue

Portland, OR 97239

503.248.1939

Andy Fridley, Instructor

ITEM	DESCRIPTION	CURRENT	UNIT	LABOR	LABOR	MATERIAL				SUBCONTRACT	SUBCONTRACT		UBCONTRACTOR		
ITEM	DESCRIPTION	QUANTITY UNIT	LABOR I	MANHOURS RATE	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	SUBTOTAL COST	CONTING.	COST	TOTA	L TOTALS
DIVISIO	N 2 - DEMOLITION & REMOVAL														- 153,244
024124	ROOFING - ASPHALT SHINGLE	3,625.00 SF	0.010	36 80.00	2,880.00	-	BLW							2,88	5
024170	ROOF SHEATHING - 10% ALLOWANCE	362.00 SF	0.023	8 80.00	640.00	-	BLW							64	ז
	GUTTERS AND FLASHING	551.00 LF	0.075	41 80.00	3,280.00	-	BLW							3,28	
024160	DOORS & FRAMES	67.00 LVS	0.500	34 80.00	2,720.00	-	BLW							2,72	
024164	WINDOWS (1,794 SF) GLASS BLOCK WALL	50.00 EA 144.00 SF	1.250 0.120	63 80.00 17 80.00	5,040.00 1,360.00	-	BLW BLW							5,04 1,36	
024170	FRAMED PARTITIONS (DOUBLE LATH & PLASTER)	1,440.00 SF	0.056	81 80.00	6,480.00	-	BLW							6.48	
521110	LATH & PLASTER ONLY (FRAMING TO REMAIN)	27,788.00 SF	0.008	222 80.00	17,760.00	-	BLW							17,76	
	EXTERIOR SHEATHING (SOUTH WALL)	795.00 SF	0.028	22 80.00	1,760.00	-	BLW							1,76	J
	FLOOR/STAIR STRUCTURE	390.00 SF	0.180	70 80.00	5,600.00	-	BLW							5,60	
004404	INTERIOR TRIM	6,322.00 LF	0.008	51 80.00	4,080.00	-	BLW							4,08	
024184	FLOORING - TILE ENTRY TILE - EXTERIOR	756.00 SF	0.028	21 80.00	1,680.00	=	BLW							1,68	
	MECHANICAL DEMOLITION - PIPING & MISC.	160.00 SF 11,057.00 SF	0.036 0.008	6 80.00 88 80.00	480.00 7,040.00	-	BLW BLW							7,04	
	FIXTURES	54.00 EA	0.250	14 80.00	1,120.00	-	BLW							1,12	
	ELECTRICAL DEMOLITION	11,057.00 SF	0.006	66 80.00	5,280.00	-	BLW							5,28	
024125	CONCRETE DEMOLITION - SITE	3.00 CY	1.250	4 80.00	320.00	-	BLW							32	0
	ASPHALT DEMOLITION	NIC						-						NI	
	MISC. REMOVE & REPLACE - DECORATIVE RAILING	75.00 EA	2.000	150 80.00	12,000.00	22.25	***							12,00	
	CONCRETE DISPOSAL DEBRIS DISPOSAL	4.00 LCY 603.00 LCY	0.250 0.350	1 80.00 211 80.00	80.00 16,880.00	22.00 35.00	88.00 21,105.00							37,98	
	TEMPORARY PROTECTION	1.00 ALLW	40.000	40 80.00	3,200.00	1.000.00	1.000.00							4,20	
026100	CONTAMINATED SOILS REMOVAL & DISPOSAL	NIC	40.000	40 00.00	0,200.00	1,000.00	1,000.00							NI NI	
028000	HAZARDOUS MATERIALS ABATEMENT - FLOOR TILE	90.00 SF	SUB	SUB		SUB	SUB			3.25	292.50		292.50	29	
	WINDOW CAULKING	17,000.00 LF	SUB	SUB		SUB	SUB			1.25	21,250.00		21,250.00	21,25	J
	FLOURESCENT LAMPS	41.00 EA	SUB	SUB		SUB	SUB			8.00	328.00		328.00	32	
	ABATEMENT CONTAINMENT AND SET-UP	1.00 LS	SUB	SUB		SUB	SUB			5,000.00	5,000.00		5,000.00	5,00	
	LEAD PAINT PROGRAM SPOT ABATEMENT	1.00 ALLW 1.00 ALLW	SUB SUB	SUB SUB		SUB SUB	SUB SUB			2,000.00 2,500.00	2,000.00 2,500.00		2,000.00 2,500.00	2,00	
DIVISIO	N 3 - CONCRETE	1.00 ALLVV	306	306		306	306				2,300.00		2,500.00	2,50	
			4 000		960.00			-			-		-	4.00	- 12,598
033000 031100	CONCRETE - PLACING FORMING	12.00 CY 550.00 SFCA	1.000 0.150	12 80.00 83 80.00	6,640.00	80.00 1.20	960.00 660.00							1,92 7,30	
031300	FINE GRADE & SCREED	186.00 SF	0.022	4 80.00	320.00	0.25	47.00							36	
033500	FINISHING	420.00 SF	0.010	4 80.00	320.00	0.30	126.00							44	
031500	CONCRETE ACCESSORIES	5.00 CY			ABV	6.00	30.00								0
031514	FOUNDATION INSULATION	NIC												NI	
032100	REINFORCING	0.50 TN	25.000	13 80.00	1,040.00	2,500.00	1,250.00							2,29	
	CONCRETE HANDLING UNDER SLAB/FOOTING MATERIAL	5.00 CY 1.00 CY			ABV	25.00 30.00	125.00 30.00							12	0
036300	DRILL & EPOXY	4.00 EA	0.200	1 80.00	80.00	2.50	10.00								0
	N 4 - MASONRY														- 11,520
	GLASS BLOCK WALL	144.00 SF	SUB	SUB		SUB	SUB			80.00	11.520.00		11.520.00	11,52	
	N 5 - METALS													11,02	- 50,768
	METAL RAILINGS	140.00 LF	0.220	31 80.00	2,480.00	60.00	8,400.00							10.88	
000200	DECORATIVE RAILING REFINISHING & UPGRADE	75.00 LF	0.220	20 80.00	1,600.00	40.00	3,000.00							4,60	
	DECORATIVE TOWER GRABRAIL	60.00 LF	0.220	13 80.00	1,040.00	40.00	2,400.00							3,44	J
055300	METAL GRATING	NIC												NI	
	METAL FABRICATIONS - LATERAL ELEVATOR SUPPORT	1.00 EA	50.000	50 80.00	4,000.00	5,000.00	5,000.00							9,00	
DIV/IOIOI	SEISMIC SUPPORT ANGLE	1,296.00 LF	0.120	156 80.00	12,480.00	8.00	10,368.00							22,84	
	N 6 - WOOD & PLASTICS							-							- 167,423
060600	FASTENERS, CONNECTORS SEISMIC BOLTING	11,057.00 SF	0.250	70 00 00	BLW 6.240.00	0.60	6,634.00							6,63	
061000	ROUGH CARPENTRY	310.00 EA 9,058.00 BF	0.250	78 80.00 290 80.00	6,240.00 23,200.00	6.00 0.65	1,860.00 5,888.00							8,10 29,08	
331000	SOFFIT ALLOWANCE	1.00 ALLW	20.000	20 80.00	1,600.00	1,500.00	1,500.00							23,00	
	ROT REPLACEMENT - INTERSECTION SOUTH OF TOWER	260.00 SF	0.160	42 80.00	3,360.00	6.00	1,560.00							4,92	J
	ROT ALLOWANCE	1.00 ALLW	20.000	20 80.00	1,600.00	1,000.00	1,000.00							2,60	
061603	SHEATHING - INTERIOR WALLS	3,600.00 SF	0.022	79 80.00	6,320.00	1.80	6,480.00							12,80	
	EXTERIOR WALL	795.00 SF	0.034	27 80.00	2,160.00	2.00	1,590.00							3,75	
	FLOOR (PATCHING) ROOF - 10% ALLOWANCE	64.00 SF 362.00 SF	0.028 0.030	2 80.00 11 80.00	160.00 880.00	2.60 2.20	166.00 796.00							32 1,67	
062620	FRP PANELINGS	NIC	0.030	11 00.00	000.00	2.20	1 90.00							NI	
064000	ARCHITECTURAL WOODWORK - CASEWORK & COUNTERTO	1.00 ALLW	+				10,000.00							10,00	
	RECEPTION COUNTER	1.00 ALLW					10,000.00							10,00	
	CLOSET SHELF & ROD	33.00 EA	0.750	25 80.00	2,000.00	90.00	2,970.00							4,97	
00:1000	UTILITY & STORAGE SHELVING	1.00 ALLW		400 000	0.4.065.55		5,000.00							5,00	
064600	INTERIOR FINISH CARPENTRY	7,262.00 LF	0.060	436 80.00	34,880.00	4.50	32,679.00							67,55	3

Division Verantier Profession Communication Communicat															
Display Total To	ITEM	DESCRIPTION	CURRENT OLIANTITY LINIT	UNIT LABOR	LABOR MANHOURS RATE	LABOR	MATERIAL UNIT COST					SUBCONTRACT SUBTOTAL COST	SUB SUBCONTRACTOR CONTING COST	LINE TOTAL	DIVISION TOTALS
Column C	11 LIVI	BESSIAI HON	QO/IIVIIII OIVII	LABOIL	WATER PORTS	0001	01111 0001	0001	01411 0001	0001	01411 0001	COBTOTAL COOT	CONTINUE.	TOTAL	1017120
Control Cont	DIVISION	7 - WEATHER PROTECTION										_			231,299
3-20-00 3-27 1975 3-27											8.00	3,360.00	3,360.00	3,360	
Commonweal Com				0.045	39 80.00	3,120.00	3.00	2,625.00						5,745 NIC	
SATE CATTOR SATE 1986 1987 19				SUB	SUB		SUB	SUB			2.60	19.702.80	19.702.80	19,703	
SOURCE FLOORING ADDITIONAL PROPERTY SOUR SHEET SOUR	0.2.00											,		5,335	
P-229 11000 PNTOE NEW PROPERTY WHITOUR WHITOUR PROPERTY WHITOUR WHITOUR PROPERTY WHITOU			,											16,416	
New STILLDS SQUITE WALLS 75.00 50.00 5	074200		,									,	,	12,453 89,736	
15/25/10 15/25/10	074200													11,130	
ASPHALT SINGELE RECORNES SYSTEM CORROS SPECIAL PROCESSOR SYS	072500					800.00					1.1.00	,	11,100.00	2,800	
PRODE SCHEFFIELT AFFERSHIPS - VINISONES - SURFIELD 1,000															
PROPERTY						770.00					10.50	38,062.50	38,062.50	38,063 2,114	
97123 GUTERS SUBSTITUTE														7,650	
DECOGNATIVE SUPPRISE SEMDIVECLEANISPEACE BLOCK SUB SUB SUB SUB SUB 15000 1,200000 1,200000 1,200000 1,200000 1,200000		,				1,1					12.00	4,020.00	4,020.00	4,020	
DIVISION 8 - PRINSHED SECOND SECO													,	1,836	
	077200			SUB	SUB		SUB	SUB			150.00	1,200.00	1,200.00	1,200 NIC	
DIVISION 9 - OPENINGS				0.120	114 80.00	9,120.00	0.65	618.00						9,738	
DIVISION 9 - OPENINGS		MISC.												-,	
Miles Mile			SEE 096001											SEE 096001	
NOLLOW METAL DODGS (INSULATED) NOL												-			216,095
08131 HOLLOW METAL DOORS (INSULATED) 3.00 US 5.00 18.00 19.00				1.500	5 80.00	400.00	350.00	1,050.00						1,450	
09-100 MODO BOORS AFRAMES 460.00 63.00 6.44.00 6.20				0.500	2 80.00	160.00	625.00	1 875 00						NIC 2,035	
08400 MORNETIN ASSEMBLY CAY - 2 LVS) 35.08 5														33,040	
08-000 MAN ENTRY ASSEMBLY (SK7 - 2 LVS) 35.00 SF 50.00 EA 2.500 125 8.00 10.000 10 10.000 10 1.000		,												10,890	
SS000 WINCOWS (1.110 SF)						770.00					400.00	44,000,00	14 000 00	2,270	
DOOR HARDWARE						10 000 00	SUB				400.00	14,000.00	14,000.00	14,000 118,300	
DIVISION 9 - FINISHES						,	350.00							32,110	
09216 RESILENT CHANNEL (24 °C.) 114,423.00 LF 0.012 125 80.00 10.000.00 0.46 4.795.00		· · ·	1.00 ALLW	SUB	SUB		SUB	SUB			2,000.00	2,000.00	2,000.00	2,000	
052900 GWB - HANG															633,965
02201 0AB -TAPE						,		,						14,795	
Designation Tile - TOWER FLOORING 1.330.00 SF SUB			,		,	96,080.00						,	,	336,195 35,022	
BATHROM FLOORS/MALLS 3,754.00 SF SUB SUB SUB SUB SUB SUB 20.00 75,080.00 75,		ş. i	,									/-		26,600	
005500 0000 0000 0000 0000 0000 0000 0000 0000 000000		BATHROOM FLOORS/WALLS	,											75,080	
HALLWAYS (REPINISH)														3,200	
WOOD FLOOR PATCHING 321.00 SF SUB SUB SUB SUB 25.00 8,025.0	095500	,	,											29,400 9,996	
098001 FLOOR PREP (TILE ONLY) 2,596.00 SF 0.016 40 80.00 3,200.00 0.20 501.00		()	,										,	8,025	
098500 RESILIENT FLOORING - VCT	096001	FLOOR PREP (TILE ONLY)		0.016	40 80.00	3,200.00	0.20	501.00				,		3,701	
098613 RESILENT BASE & ACCESSORIES 72.00 LF SUB						3,200.00	,							5,200	
O9880 CARPETING O9913 PAINTING - EXISTING STUCCO 7,478.00 SF SUB												,		1,050 360	
Description				OOD	OOD		OOD	000			3.00	300.00	300.00	300	
REFURBISH MAIN ENTRY	099113											,		11,591	
REFURBISH BALCONY 1.00 ALLW SUB SUB SUB SUB SUB 5,000.00 5,000.00 5,000.00 5,000.00 SUB														961	
099123 PAINTING - INTERIOR											,			10,000 5,000	+
DIVISION 10 - SPECIALTIES	099123										The second secon			57,788	
DISPLAY CASES NIC	DIVISION	10 - SPECIALTIES										_			14,670
10400 SIGNAGE - ROOM 33.00 EA 0.250 8 80.00 640.00 45.00 1,485.00	,	VISUAL DISPLAY SURFACES												NIC	
DIRECTIONAL 10.00 EA 0.250 3 80.00 240.00 500.00 500.00				0.050	0 00 00	0.40.00	45.00	4 405 00						NIC	
CODE REQUIRED 1.00 ALLW 4.000 4 80.00 320.00 350.00 350.00 350.00 CORNER GUARDS NIC TOILET & BATH ACCESSORIES 96.00 EA 0.350 34 80.00 2,720.00 50.00 4,800.00 FIRE EXTINGUISHERS AND CABINETS 9.00 EA 0.350 3 80.00 240.00 175.00 1,575.00 FLAG POLES 1.00 EA 10.000 10 80.00 800.00 1,000.00 MISC. SPECIALTIES NIC	10400													2,125 740	
CORNER GUARDS														670	
FIRE EXTINGUISHERS AND CABINETS 9.00 EA 0.350 3 80.00 240.00 175.00 1,575.00					. 33.30		200.00	200.00						NIC	
FLAG POLES						,		,						7,520	
MISC. SPECIALTIES NIC														1,815 1,800	
DIVISION 11 - EQUIPMENT				10.000	10 00.00	000.00	1,000.00	1,000.00						1,800 NIC	
															15,000
10,000.00 10,000		-	1.00 ALLW				15,000.00	15,000.00						15,000	10,000
DIVISION 12 - FURNISHINGS												_		_	14,500

PROPERTY		
Times	LINE	DIVISION
	TOTAL	TOTALS
DIVISION 14 - CONVEYANCE SYSTEMS	B/O	
DIVISION 13 - CONVEYANCE SYSTEMS	14,500 B/O	
DIVISION 13 - SPECIAL CONSTRUCTION Null -	NIC	+
DIVISION 14 - CONVEYANCE SYSTEMS	NIC	+
ELEVATIVE S 2010 50,000 50	INIC	
DVISION - MECHANICAL	90.000	80,00
Proceedings	80,000	000.46
FISC. LINE & STANDAPPE 100 EA 500 SUB 500 SUB	81.208	668,43
2000 PLUMBRIC PL	20,000	+
22000 HAMD HAMD HECKRICAL & SPECIAL SYSTEMS 1/057/00 5 50,00 5	185,979	+
2009 ELECTRICAL 11097 00 5 50.08 5	381,245	
GENERATION 1.00 EA SUB SUB SUB SUB B0,150.00 B0,15		381,48
NEW SERVICE CHAMBUS SYSTEM)	295,332	
DIVISION 31 - EARTHWORK	NIC	
\$1000 STE CLEARING AND STOCKPUEN (GRAVEL LOT) SEE FRONTAGE	86,150	
31213 ROUGH (SADNING)	ONTACE	2,54
373716 XXXXXTXCN XPORT SEF FRONTAGE		+
BACKPILLING -IMPORT TRENCHINGS BACKPILL (AREA DRAIN) 72.00 (7 0.330 2.5 80.00 2.000.00 7.5 9.40.00 DIVISION 32. SITE MPROVEMENTS 27.00 (7 0.000 1.7 1.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	ONTAGE	+
TRENCHING & BACKFILL (AREA DRAIN) 72.00 CY 0.550 25 80.00 2.000.00 7.50 540.00	NIC	
EROSION & SEDMENTATION CONTROL NIC	ONTAGE 2,540	+
DIVISION 32 - SITE IMPROVEMENTS	NIC	+
32101 CONCRETE - SIDEWALKS & MISC. 9.00 CY 1750 16 80.00 128.00 80.00 720.00		21,37
FINISHING	2,000	21,01
32200 WEDLEDWIRE FABRIC	3,418	
CONCRETE HANDLING	1,852	
CONCRETE ACCESSORIES 9.00 CY 5.00 45.00	2,260 1,440	
321216 ASPHALT PAVING SEE FRONTAGE	45	
BASE COURSE	390	
GRAVEL PARKING LOT SEE FRONTACE		
321614 CONCRETE DARRIER CURB SEE FRONTAGE		+
S21723 PAVEMENT STRIPING SEE FRONTAGE		+
PAVEMENT MARKINGS		
323100 ENCINGS & GATES 4.00 EA 1.500 6 80.00 480.00 125.00 500.00		
1,885.00 SUB	980	-
IRRIGATION SYSTEM	1,092	
LAWN REHABILITATION	5,898	_
DIVISION 33 - SITE UTILITIES	NIC 2,000	
331116 SITE WATER UTILITY DISTRIBUTION PIPING NIC 1.00 EA 5.000 5 80.00 400.00 900.00 900.00 900.00 33103 WATER SERVICE CONNECTION 1.00 EA 5.000 5 80.00 400.00 350.00 350.00 350.00 350.00 333100 SAINTARY SEWERAGE PIPING NIC 333100 SAINTARY SEWERAGE PIPING 120.00 LF 0.280 34 80.00 2,720.00 6.00 720.00 333100 STORM UTILITY DRAINAGE PIPING 120.00 LF 0.280 34 80.00 2,720.00 6.00 720.00 333403 FOUNDATION DRAINAGE STRUCTURES - CATCH BASINS 2.00 EA 4.000 8 80.00 640.00 350.00 700.00 40.00	2,000	7,11
331213 WATER SERVICE CONNECTION 1.00 EA 5.000 5 80.00 400.00 900.00 900.00 900.00 331300 DISINFECTION OF WATER UTILITY PIPING 1.00 EA 5.000 5 80.00 400.00 350.0	NIC	+ ',''
333100 SANITARY SEWERAGE PIPING NIC 334100 STORM UTILITY DRAINAGE PIPING 120.00 LF 0.280 34 80.00 2,720.00 6.00 720.00	1,300	+
334100 STORM UTILITY DRAINAGE PIPING 120.00 LF 0.280 34 80.00 2,720.00 6.00 720.00	750 NIIO	
334613 FOUNDATION DRAINAGE NIC 334900 STORM DRAINAGE STRUCTURES - CATCH BASINS 2.00 EA 4.000 8 80.00 640.00 350.00 700.00	NIC 3,440	+
334900 STORM DRAINAGE STRUCTURES - CATCH BASINS 2.00 EA 4.000 8 80.00 640.00 350.00 700.00	NIC	+
CENERAL REQUIREMENTS	1,340	
01.71.23.13 SITE SURVEY / LAYOUT NIC - <	280	
UTILITY HOOK-UP FEES		197,64
01.51.13.10 CONSTRUCTION POWER 12.00 MON 10.000 120 60.00 7,200.00 BY OWNER 9 10.51.36.20 15.136.20 <t< td=""><td>NIC</td><td></td></t<>	NIC	
01.51.36.20 TEMPORARY WATER NIC 01.51.29.30 TEMPORARY NATURAL-GAS NIC	7,200	+
01.51.29.30 TEMPORARY NATURAL-GAS NIC	NIC	+
	NIC	+
01.51.26.35 TEMPORARY LIGHTING 10.00 MON 10.000 100 60.00 6,000.00 300.00 3,000.00	9,000	
01.51.23.20 TEMPORARY HEATING 6.00 MON 20.000 120 60.00 7,200.00 200.00 1,200.00 4,000.00	12,400	1
01.52.19.15 TEMPORARY SANITARY FACILITIES (2 EA) 12.00 MON 160.00 1,920.00	1,920	
01.56.26.15 TEMPORARY CONSTRUCTION FENCING 2,000.00 LF 40 7,200.00 TEMPORARY STORM WATER POLLUTION CONTROL NIC 0 0	7,200 NIC	+
	43,200	+
01.74.19.20 GARBAGE DUMP 12.00 MON 8.000 96 60.00 5,760.00 800.00 9,600.00	15,360	+
01.58.13.10 TEMPORARY SIGNAGE 1.00 ALLW 10.000 10 60.00 600.00 500.00	1,100	
	16,400	

11/11/2022

	CURREN	IT	UNIT	LAE	BOR	LABOR	MATERIAL	MATERIAL	COLUDATA	COLUDMENT	SUBCONTRACT	SUBCONTRACT	SUB	SUBCONTRACTOR	LINE	DIVISION
ITEM DESCRIPTION	QUANTITY		LABOR	MANHOURS RA	-	COST	UNIT COST	COST	UNIT COST		UNIT COST	SUBTOTAL COS			TOTAL	TOTALS
TIEM DESCRIPTION	QUANTITY	UNIT	LABUR	MANHOURS RA	(IE	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	SUBTOTAL COS	CONTING		TOTAL	TOTALS
TRUCK - 1-TON FLATBED - JOB VEHICLE	12.00	MON							950.00	11,400.00					11,400	
01.74.23.20 FINAL CLEAN	11,057.00	SF					0.25	2,764.00							2,764	
EQUIP - FORKLIFT	12.00	MON							2500.00	30,000.00					30,000	
01.54.19.20 CRANE	NIC														NIC	
MAN-LIFTS	12.00	MON							2400.00	28,800.00					28,800	
EQUIPMENT - FUEL & MAINTENANCE	12.00	MON					700.00	8,400.00							8,400	
CONSUMABLES	1.00	LS					2,500.00	2,500.00							2,500	
GENERAL CONDITIONS					-											421,04
PLAN REPRODUCTION	1.00	LS					500.00	500.00							500	
01.78.33.20 BOND	3,690,000.00						0.0083	30,442.50							30,443	
01.78.32.10 INS - LIABILITY	3,690,000.00						0.0080	29,520.00							29,520	
01.78.32.20 INS - BLDRS RISK	3,690,000.00						0.0011	4,059.00							4,059	
TAX - STATE BUSINESS	NIC							.,							NIC	
TAX - WA STATE SALES TAX	NIC														NIC	
PERMITS	NIC														NIC	
01.45.23.10 TESTING LABORATORY SERVICES	NIC														NIC	
01.02.10.10 PROJECT MANAGER (12 MO x 60 MH/MO)	720.00						125.00	90,000.00							90,000	
01.03.30.10 SUPERINTENDENT (12 MO x 174 MH/MO)	2,088.00						90.00	187,920.00							187,920	
01.02.40.10 PROJECT ADMINISTRATOR (12 MO x 40 MH/MO)	480.00						35.00	16,800.00							16,800	
01.04.88.10 YARD LABOR	250.00						40.00	10,000.00							10,000	
01.07.48.10 TEMP IT/COMMUNICATION	12.00						400.00	4,800.00							4,800	
01.52.13.15 TEMPORARY OFFICE	12.00						425.00	5,100.00							5,100	
01.52.13.78 TEMPORARY OFFICE UTILITIES	12.00						300.00	3,600.00							3,600	
01.07.55.55 OFFICE SETUP & CONSUMABLES	1.00			20 60	0.00	1.200.00	400.00	400.00		1.200.00					2,800	
01.07.40.10 PICKUP TRUCK	12.00					1,200100			800.00	9,600.00					9,600	
01.04.49.10 SAFETY TOOLS & EQUIPMENT (FALL PROTECTION)	12.00						1,600.00	19,200.00		2,000.00					19,200	
POSTAGE & U.P.S.	12.00						75.00	900.00							900	
01.77.01.10 CLOSEOUT PROCEDURES	1.00		80.000	80 60	0.00	4,800.00	1,000.00	1,000.00							5,800	
TOTAL				6,541	4	489,840.00		903,867.50		94,200.00				1,817,687.55	3,300,705	3,300,70
OH&P - 12%												OH&P - 12	%		396,085	396,08
CONSTRUCTION TOTAL	TC		. MANHOURS OF BUILDING	6,541 11,057							CON	ISTRUCTION TOTA	L		3,696,790	3,696,79
CONTINGENCY OWNER 20%	10	TAL SE	OI BUILDING	11,037							CONTING	GENCY OWNER 20	%		739,358	739,35
		N	IHRS PER SF	0.5916											,	
TOTAL												TOTA	AL		4,436,148	4,436,14
COST/SF												COST/S	SE		401	401

			1													
		CURRE	NT	UNIT	LABOR	LABOR	MATERIAL	MATERIAL	EQUIPMENT	QUIPMENT	SUBCONTRACT	SUBCONTRACT	SUB S	SUBCONTRACTOR	LINE	DIVISION
ITEM	DESCRIPTION	QUANTITY	UNIT	LABOR	MANHOURS RATE	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	SUBTOTAL COST	CONTING.	COST	TOTAL	TOTALS
DIVISION	I 2 - DEMOLITION & REMOVAL		1													100.004
	ROOFING - ASPHALT SHINGLE	3,625.00	 SE	0.010	36 80.00	2,880.00		 BLW		-					2,880	163,804
024124	ROOF SHEATHING - 10% ALLOWANCE	362.00		0.010	8 80.00	640.00	-	BLW							640	
021110	GUTTERS AND FLASHING	551.00		0.075	41 80.00		-	BLW							3,280	
	DOORS & FRAMES	52.00	LVS	0.500	26 80.00	2,080.00	-	BLW							2,080	
024164	WINDOWS (1,794 SF)	50.00		1.250	63 80.00		-	BLW							5,040	
004470	GLASS BLOCK WALL	144.00		0.120	17 80.00	,	-	BLW							1,360	
024170	FRAMED PARTITIONS (DOUBLE LATH & PLASTER) LATH & PLASTER ONLY (FRAMING TO REMAIN)	4,416.00 24,813.00		0.056 0.008	247 80.00 199 80.00	,	-	BLW BLW							19,760 15,920	
	EXTERIOR SHEATHING (SOUTH WALL)	795.00		0.008	22 80.00		-	BLW							1,760	
	FLOOR/STAIR STRUCTURE	390.00		0.180	70 80.00	,	-	BLW							5,600	
	INTERIOR TRIM	6,006.00		0.008	48 80.00		=	BLW							3,840	
024184	FLOORING - TILE	756.00		0.028	21 80.00	1,680.00	-	BLW							1,680	
	ENTRY TILE - EXTERIOR	160.00		0.036	6 80.00	480.00	-	BLW							480	
	MECHANICAL DEMOLITION - PIPING & MISC. FIXTURES	11,057.00 57.00		0.008 0.250	88 80.00 14 80.00	7,040.00 1,120.00	-	BLW BLW							7,040 1,120	
	ELECTRICAL DEMOLITION	11,057.00		0.250	66 80.00	5,280.00	-	BLW							5,280	
024125	CONCRETE DEMOLITION - SITE	3.00		1.250	4 80.00	320.00	_	BLW							320	
	ASPHALT DEMOLITION	NIC			33.00			2211							NIC	
	MISC. REMOVE & REPLACE - DECORATIVE RAILING	75.00		2.000	150 80.00	12,000.00									12,000	
	CONCRETE DISPOSAL		LCY	0.250	1 80.00	80.00	22.00	88.00				-			168	
	DEBRIS DISPOSAL	603.00		0.350	211 80.00	,	35.00	21,105.00							37,985	
026100	TEMPORARY PROTECTION CONTAMINATED SOILS REMOVAL & DISPOSAL	1.00 NIC	ALLW	40.000	40 80.00	3,200.00	1,000.00	1,000.00							4,200 NIC	
028100	HAZARDOUS MATERIALS ABATEMENT - FLOOR TILE	90.00		SUB	SUB		SUB	SUB			3.25	292.50	1	292.50	293	
020000	WINDOW CAULKING	17,000.00		SUB	SUB		SUB	SUB			1.25	21,250.00		21,250.00	21,250	
	FLOURESCENT LAMPS	41.00		SUB	SUB		SUB	SUB			8.00	328.00		328.00	328	
	ABATEMENT CONTAINMENT AND SET-UP	1.00	LS	SUB	SUB		SUB	SUB			5,000.00	5,000.00)	5,000.00	5,000	
	LEAD PAINT PROGRAM		ALLW	SUB	SUB		SUB	SUB			2,000.00	2,000.00		2,000.00	2,000	
DIV (1010)	SPOT ABATEMENT	1.00	ALLW	SUB	SUB		SUB	SUB			2,500.00	2,500.00)	2,500.00	2,500	
	3 - CONCRETE															12,598
033000	CONCRETE - PLACING	12.00		1.000	12 80.00	960.00	80.00	960.00							1,920	
031100 031300	FORMING FINE GRADE & SCREED	550.00 186.00		0.150 0.022	83 80.00 4 80.00	6,640.00 320.00	1.20 0.25	660.00 47.00							7,300	
031500	FINISHING	420.00		0.022	4 80.00	320.00	0.30	126.00							446	
031500	CONCRETE ACCESSORIES	5.00		0.010	4 00.00	ABV	6.00	30.00							30	
031514	FOUNDATION INSULATION	NIC	;												NIC	
032100	REINFORCING	0.50		25.000	13 80.00	1,040.00	2,500.00	1,250.00							2,290	
	CONCRETE HANDLING	5.00					25.00	125.00							125	
020200	UNDER SLAB/FOOTING MATERIAL	1.00		0.000	4 00.00	ABV	30.00 2.50	30.00							30 90	
	DRILL & EPOXY I 4 - MASONRY	4.00	EA	0.200	1 80.00	80.00	2.50	10.00							90	44 500
	GLASS BLOCK WALL	144.00		 SUB	CLID		 SUB	 SUB	-	-		11 520 00		11 520 00	11 520	11,520
											80.00	11,520.00		11,520.00	11,520	50 700
	I 5 - METALS									-					40.000	50,768
055200	METAL RAILINGS DECORATIVE RAILING REFINISHING & UPGRADE	140.00 75.00		0.220	31 80.00 20 80.00	,	60.00 40.00	8,400.00 3,000.00							10,880 4,600	
	DECORATIVE RAILING REFINISHING & OFGRADE DECORATIVE TOWER GRABRAIL	60.00		0.220	13 80.00	· ·	40.00	2,400.00							3,440	
055300	METAL GRATING	NIC		3.220	.5 55.00	.,0.00	10.00	_, 100.00	†						NIC	
	METAL FABRICATIONS - LATERAL ELEVATOR SUPPORT	1.00	EA	50.000	50 80.00	,	5,000.00	5,000.00							9,000	
	SEISMIC SUPPORT ANGLE	1,296.00	LF	0.120	156 80.00	12,480.00	8.00	10,368.00							22,848	
	6 - WOOD & PLASTICS															209,497
060600	FASTENERS, CONNECTORS	11,057.00				BLW	0.60	6,634.00							6,634	
	SEISMIC BOLTING	310.00		0.250	78 80.00	,	6.00	1,860.00							8,100	
061000	ROUGH CARPENTRY SOFFIT ALLOWANCE	22,685.00	ALLW	0.032 20.000	726 80.00 20 80.00		0.65 1,500.00	14,745.00 1,500.00							72,825	
	ROT REPLACEMENT - INTERSECTION SOUTH OF TOWER	260.00		0.160	42 80.00		6.00	1,560.00							4,920	
	ROT ALLOWANCE		ALLW	20.000	20 80.00		1,000.00	1,000.00							2,600	
061603	SHEATHING - INTERIOR WALLS	3,600.00	SF	0.022	79 80.00	6,320.00	1.80	6,480.00							12,800	
	EXTERIOR WALL	795.00		0.034	27 80.00	,	2.00	1,590.00							3,750	
	FLOOR (PATCHING)	259.00		0.028	7 80.00		2.60	673.00							1,233	
000000	ROOF - 10% ALLOWANCE	362.00		0.030	11 80.00	880.00	2.20	796.00							1,676	
062620 064000	FRP PANELINGS ARCHITECTURAL WOODWORK - CASEWORK & COUNTERTO	NIC	ALLW					10,000.00	+ +						NIC 10,000	
304000	RECEPTION COUNTER		ALLW					10,000.00							10,000	
	CLOSET SHELF & ROD	16.00		0.750	12 80.00	960.00	90.00	1,440.00					1		2,400	
	UTILITY & STORAGE SHELVING	1.00	ALLW					5,000.00							5,000	
064600	INTERIOR FINISH CARPENTRY	7,262.00	LF	0.060	436 80.00	34,880.00	4.50	32,679.00							67,559	

		CURREI	NT	UNIT	LABOR	LABOR	MATERIAL	MATERIAL	EQUIPMENT E	QUIPMENT	SUBCONTRACT	SUBCONTRACT	SUB SUBCONTR	ACTOR LIN	E DIVISION
ITEM	DESCRIPTION	QUANTITY		LABOR	MANHOURS RATE	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST		CONTING. COS		
DIVISION	7 - WEATHER PROTECTION														227,023
071001	FOUNDATION WATERPROOFING - ELEVATOR PIT ONLY	420.00	SF	SUB	SUB		SUB	SUB			8.00	3,360.00	3	,360.00 3,36	o l
071326	RAIN SCREEN (SOUTH WALL)	875.00		0.045	39 80.00	3,120.00	3.00	2,625.00						5,74	5
	WATER REPELLANTS	NIC												NI	
072100	INSULATION - SPRAY FOAM R-11	7,578.00		SUB			SUB	SUB			2.60	19,702.80		,702.80 19,70	
	BATT - ATTIC R-49	2,964.00		SUB			SUB	SUB			1.80	5,335.20		,335.20 5,33	
	SOUND - WALLS SOUND - FLOORS	10,117.00 8,895.00		SUB SUB	SUB SUB		SUB SUB	SUB SUB			1.20 1.40	12,140.40 12,453.00		,140.40 12,14 ,453.00 12,45	
074200	STUCCO - PATCH EXISTING (MICROMESH COAT WITH COLO	,		SUB			SUB	SUB			12.00	89,736.00		736.00 89,73	
07 1200	NEW STUCCO (SOUTH WALL)	795.00		SUB			SUB	SUB			14.00	11,130.00		,130.00 11,13	
072500	FIRE STOPPING		ALLW	10.000		800.00	2,000.00	2,000.00				,		2,80	
072600	VAPOR RETARDERS	NIC	;												
	ASPHALT SHINGLE ROOFING SYSTEM	3,625.00		SUB	SUB		SUB	SUB			10.50	38,062.50	38	,062.50 38,06	
076200	SHEET METAL FLASHING - WINDOWS & MISC.	320.00		0.030	10 77.00	770.00	4.20	1,344.00						2,11	
076500	FLEXIBLE FLASHING (WINDOW PERIMETER TREATMENT)	1,236.00		0.060	74 80.00	5,920.00	1.40	1,730.00			40.00	4 000 00	,	7,65	
077123	GUTTERS	335.00		SUB	SUB		SUB	SUB			12.00	4,020.00		,020.00 4,02	
	DOWNSPOUTS DECORATIVE SCUPPERS - REMOVE/CLEAN/REPLACE	216.00 8.00		SUB SUB	SUB SUB		SUB SUB	SUB SUB			8.50 150.00	1,836.00 1,200.00		,836.00 1,83 ,200.00 1,20	
077200	ROOF ACCESSORIES	NIC		308	300		305	306			130.00	1,200.00	1.	,200.00 1,20 NI	
079000	JOINT SEALANTS - WINDOWS	951.00		0.120	114 80.00	9,120.00	0.65	618.00			<u> </u>			9,73	
	MISC.	1.00	ALLW	20.000	20 77.00		250.00	250.00						,	
	FLOOR CAULKING	SEE 096001								-				SEE 09600	1
DIVISION	N 8 - OPENINGS														197,495
081213	HOLLOW METAL FRAMES	3.00	EA	1.500	5 80.00	400.00	350.00	1,050.00						1,45	J
	HOLLOW METAL RELITES	NIC												NI	
	HOLLOW METAL DOORS (INSULATED)		LVS	0.500	2 80.00	160.00	625.00	1,875.00						2,03	
081400	WOOD DOORS & FRAMES	49.00		1.250	61 80.00		400.00	19,600.00						24,48	
083100	GUEST ROOM CLOSET DOORS, FRAMES, HARDWARE ACCESS PANELS	16.00 20.00		1.000 0.500	16 80.00 10 77.00	1,280.00 770.00	250.00 75.00	4,000.00 1,500.00						5,28 2,27	
	MAIN ENTRY ASSEMBLY (5X7 - 2 LVS)	35.00		SUB	SUB 77.00	770.00	SUB	1,500.00 SUB			400.00	14,000.00	14	,000.00 14,00	
	WINDOWS (1,110 SF)	50.00		2.500	125 80.00	10,000.00	552	108,300.00			100.00	1 1,000.00		118,30	
	DOOR HARDWARE	56.00	LVS	1.800	101 80.00	8,080.00	350.00	19,600.00						27,68	J I
	GLASS & GLAZING - PATCH @ MAIN ENTRY	1.00	ALLW	SUB	SUB		SUB	SUB			2,000.00	2,000.00	2	,000.00 2,00	ა
DIVISION	N 9 - FINISHES														753,902
092216	RESILIENT CHANNEL (24" O.C.)	11,702.00	LF	0.012	140 80.00	11,200.00	0.46	5,383.00						16,58	3
092900	GWB - HANG	79,216.00		0.016	1,267 80.00	101,360.00	1.30	102,981.00			1.90	150,510.40		,510.40 354,85	
092901	GAB - TAPE	47,826.00		SUB	SUB		SUB	SUB			0.80	38,260.80		,260.80 38,26	
093100	TILE - TOWER FLOORING	1,330.00		SUB			SUB	SUB			20.00	26,600.00		,600.00 26,60	
	BATHROOM FLOORS/WALLS ENTRY EXTERIOR	8,888.00 160.00		SUB SUB			SUB SUB	SUB SUB			20.00	177,760.00 3,200.00		,760.00 177,76 ,200.00 3,20	
095500	WOOD FLOORING - HALLWAYS (REFINISH)	1,666.00	SF	SUB	SUB		SUB	SUB			6.00	9,996.00		,996.00 9,99	
000000	WOOD FLOOR PATCHING	240.00		SUB	SUB		SUB	SUB			25.00	6,000.00		,000.00 6,00	
096001	FLOOR PREP (TILE ONLY)	1,744.00		0.016		2,240.00	0.20	349.00				.,		2,58	
096003	FLOOR PROTECTION		ALLW	40.000	40 80.00	3,200.00	2,000.00	2,000.00						5,20	
	RESILIENT FLOORING - VCT	402.00		SUB			SUB	SUB			10.00	4,020.00	4	,020.00 4,02	
096513	RESILIENT BASE & ACCESSORIES	192.00		SUB			SUB	SUB			5.00	960.00		960.00 96	
096800	CARPETING PAINTING - EXISTING STUCCO		SY	SUB SUB			SUB SUB	SUB SUB			40.00 1.55	17,200.00		,200.00 17,20	
099113	EXTERIOR CONCRETE	7,478.00 620.00		SUB			SUB	SUB	+		1.55	11,590.90 961.00		,590.90 11,59 961.00 96	
	REFURBISH MAIN ENTRY		ALLW	SUB			SUB	SUB			10,000.00	10,000.00		,000.00 10,00	
	REFURBISH BALCONY		ALLW	SUB			SUB	SUB			5,000.00	5,000.00		,000.00 5,00	
099123	PAINTING - INTERIOR	47,826.00	SF	SUB	SUB		SUB	SUB			1.32	63,130.32	63	,130.32 63,13	J
DIVISION	10 - SPECIALTIES														13,255
	VISUAL DISPLAY SURFACES	NIC	:											NI	
	DISPLAY CASES	NIC												NI	J
10400	SIGNAGE - ROOM		EA	0.250			45.00	1,350.00		-				1,99	
	DIRECTIONAL		EA	0.250			50.00	500.00						74	
	CODE REQUIRED		ALLW	4.000	4 80.00	320.00	350.00	350.00			-			67	
	CORNER GUARDS TOILET & BATH ACCESSORIES	NIC 80.00	EA	0.350	28 80.00	2,240.00	50.00	4,000.00						NI 6,24	
	FIRE EXTINGUISHERS AND CABINETS		EA EA	0.350	3 80.00	,	175.00	4,000.00 1,575.00						1,81	
	FLAG POLES		EA	10.000			1,000.00	1,000.00						1,80	
	MISC. SPECIALTIES	NIC		10.000	10 00.00	500.00	1,000.00	1,000.00						NI	
DIVISION	11 - EQUIPMENT														15,000
	RESIDENTIAL APPLIANCES - KITCHEN EQUIPMENT	1 00	ALLW				15,000.00	15,000.00						15,00	
	1 12 - FURNISHINGS	1.00					ŕ							13,00	14,500
	FURNISHINGS	 B/O							-		_			B/0	
120000	1 OTATIOI III 100	D/U	1											D/9	

	1															
		CURRE	NT	UNIT	LABOR	LABOR	MATERIAL	MATERIAL	EQUIPMENT	EQUIPMENT	SUBCONTRACT	SUBCONTRACT	SUB SU	JBCONTRACTOR	LINE	DIVISION
ITEM	DESCRIPTION	QUANTITY	UNIT	LABOR	MANHOURS RATE	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	SUBTOTAL COST	CONTING.	COST	TOTAL	TOTALS
100100	WINDOW DI INDO	50.00	Ε.Δ	0.500	25 00.00	2.000.00	250.00	40 500 00							14.500	
122100 124800	WINDOW BLINDS ENTRANCE MATTS	50.00 B/O	EA	0.500	25 80.00	2,000.00	250.00	12,500.00							14,500 B/O	
	SITE FURNISHINGS	NIC													NIC	
DIVISION	13 - SPECIAL CONSTRUCTION	NIC													NIC	
	N 14 - CONVEYANCE SYSTEMS															80.000
DIVISION	ELEVATOR - 3 STOPS	1.00	EA	SUB	SUB		SUB	SUB			80,000.00	80,000.00		80,000.00	80,000	80,000
DIVISION	N - MECHANICAL	1.00	LA	300	300		300	300			80,000.00	00,000.00		80,000.00	00,000	726 764
	FIRE PROTECTION - RECONFIGURE EXISTING	14,765.00		 SUB	SUB		 SUB	 SUB			5.50	81.207.50		81,207.50	81.208	736,764
210000	FIRE LINE & STANDPIPE	14,765.00		SUB	SUB		SUB	SUB			20,000.00	20,000.00		20,000.00	20,000	
220000	PLUMBING	11,057.00		SUB	SUB		SUB	SUB			23.00	254.311.00		254,311.00	254,311	
	HVAC	11,057.00		SUB	SUB		SUB	SUB			34.48	381,245.36		381,245.36	381,245	
DIVISION	- ELECTRICAL & SPECIAL SYSTEMS															381.482
	ELECTRICAL	11,057.00	SF	SUB	SUB		SUB	SUB			26.71	295,332.47		295,332.47	295,332	551,152
	GENERATOR	NIC												ì	NIC	
	NEW SERVICE ENTRANCE (CAMPUS SYSTEM)	1.00	EA	SUB	SUB		SUB	SUB			86,150.00	86,150.00		86,150.00	86,150	
	N 31 - EARTHWORK															2,540
	SITE CLEANING AND STOCKPILING (GRAVEL LOT)	SEE FRONTAG								-					SEE FRONTAGE	
	ROUGH GRADING EXCAVATION - EXPORT	SEE FRONTAG													SEE FRONTAGE SEE FRONTAGE	
	DEWATERING	NIC													NIC	
	BACKFILLING - IMPORT	SEE FRONTAG	3E												SEE FRONTAGE	
	TRENCHING & BACKFILL (AREA DRAIN)	72.00		0.350	25 80.00	2,000.00	7.50	540.00							2,540	
DIVIGIO	EROSION & SEDIMENTATION CONTROL	NIC													NIC	_
	32 - SITE IMPROVEMENTS		2) (21,375
321001	CONCRETE - SIDEWALKS & MISC. FINISHING	9.00 688.00		1.750 0.060	16 80.00 41 80.00		80.00 0.20	720.00 138.00							2,000 3,418	
	FG&S	688.00		0.030	21 80.00	1,680.00	0.20	172.00							1,852	
32200	WEDLED WIRE FABRIC	757.00	SF	0.020	15 80.00	1,200.00	1.40	1,060.00							2,260	
	CONCRETE HANDLING	9.00		2.000	18 80.00	1,440.00									1,440	
	CONCRETE ACCESSORIES UNDER SIDEWALK MATERIAL	9.00 13.00					5.00 30.00	45.00 390.00							45 390	
321216	ASPHALT PAVING	SEE FRONTAG					30.00	390.00							SEE FRONTAGE	
321210	BASE COURSE	SEE FRONTAG													SEE FRONTAGE	
	GRAVEL PARKING LOT	SEE FRONTAG	3E												SEE FRONTAGE	
321614	CONCRETE BARRIER CURB	SEE FRONTAG													SEE FRONTAGE	
	PRECAST CONCRETE CURBS PAVEMENT STRIPING	SEE FRONTAG													SEE FRONTAGE SEE FRONTAGE	
321723	PAVEMENT MARKINGS	SEE FRONTAG													SEE FRONTAGE	
323000	BOLLARDS	4.00	EA	1.500	6 80.00	480.00	125.00	500.00							980	
323100	FENCING & GATES	168.00		SUB	SUB		SUB	SUB			6.50	1,092.00		1,092.00	1,092	
329000	LANDSCAPING IRRIGATION SYSTEM	1,685.00 NIC		SUB	SUB		SUB	SUB			3.50	5,897.50		5,897.50	5,898 NIC	
	LAWN REHABILITATION		ALLW	SUB	SUB		SUB	SUB			2.000.00	2.000.00		2,000.00	2,000	
DIVISION	N 33 - SITE UTILITIES						552	202			_,::::::	_,000.00		_,	2,000	7,110
	SITE WATER UTILITY DISTRIBUTION PIPING	NIC													NIC	7,110
331213	WATER SERVICE CONNECTION	1.00	EA	5.000	5 80.00	400.00	900.00	900.00							1,300	
	DISINFECTION OF WATER UTILITY PIPING	1.00		5.000	5 80.00	400.00	350.00	350.00							750	
	SANITARY SEWERAGE PIPING STORM UTILITY DRAINAGE PIPING	NIC 120.00		0.280	34 80.00	2,720.00	6.00	720.00							NIC 3,440	
	FOUNDATION DRAINAGE	NIC		0.200	J-+ 00.00	2,120.00	0.00	120.00							3,440 NIC	
	STORM DRAINAGE STRUCTURES - CATCH BASINS	2.00	EA	4.000	8 80.00	640.00	350.00	700.00							1,340	
	GROUT PIPING	4.00	EA	0.750	3 80.00	240.00	10.00	40.00							280	
GENERA	AL REQUIREMENTS															197,644
01.71.23.13	SITE SURVEY / LAYOUT	NIC										-			NIC	
04.51.10	UTILITY HOOK-UP FEES	NIC			400 00	7.052.22									NIC	
	CONSTRUCTION POWER		MON	10.000	120 60.00	7,200.00		BY OWNER							7,200	
	TEMPORARY WATER TEMPORARY NATURAL-GAS	NIC NIC													NIC NIC	
	TEMPORARY LIGHTING		MON	10.000	100 60.00	6,000.00	300.00	3,000.00							9,000	
	TEMPORARY HEATING		MON	20.000	120 60.00		200.00	1,200.00		4,000.00					12,400	
	TEMPORARY SANITARY FACILITIES (2 EA)		MON				160.00	1,920.00	_						1,920	
01.56.26.15	TEMPORARY CONSTRUCTION FENCING	2,000.00		•	40			-		7,200.00					7,200	
0.171.10	TEMPORARY STORM WATER POLLUTION CONTROL	NIC			700 00 11	10.055.55									NIC	
	GENERAL CLEAN GARBAGE DUMP		MON	60.000 8.000	720 60.00		800.00	9,600.00							43,200 15,360	
	TEMPORARY SIGNAGE		MON ALLW	10.000	96 60.00 10 60.00	600.00	500.00	9,600.00							15,360	
01.00.10.10	MATERIAL & EQUIPMENT HANDLING		MON	20.000	240 60.00		300.00	300.00		2,000.00					16,400	
	TRUCK - 1-TON FLATBED - JOB VEHICLE		MON		2.0 00.00	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			950.00	11,400.00					11,400	
-		.2.00			1					,			1		,	1

11/11/2022

		CURREI	NT	UNIT	LABOR	LABOR	MATERIAL	MATERIAL	EQUIPMENT	EQUIPMENT S	SUBCONTRACT	SUBCONTRACT	SUB SI	JBCONTRACTOR	LINE	DIVISION
ITEM	DESCRIPTION	QUANTITY	UNIT	LABOR	MANHOURS RATE	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	SUBTOTAL COST	CONTING.	COST	TOTAL	TOTALS
01.74.23.20	FINAL CLEAN	11,057.00					0.25	2,764.00							2,764	
	EQUIP - FORKLIFT		MON						2500.00	30,000.00					30,000	
01.54.19.20		NIC													NIC	
	MAN-LIFTS		MON						2400.00	28,800.00					28,800	
	EQUIPMENT - FUEL & MAINTENANCE		MON				700.00	8,400.00							8,400	
	CONSUMABLES	1.00	LS				2,500.00	2,500.00							2,500	
GENERA	L CONDITIONS						-									425,553
	PLAN REPRODUCTION	1.00	LS				500.00	500.00							500	
01.78.33.20	BOND	3,950,000.00	DLR				0.0083	32,587.50							32,588	
01.78.32.10	INS - LIABILITY	3,950,000.00	DLR				0.0080	31,600.00							31,600	
01.78.32.20	INS - BLDRS RISK	3,950,000.00	DLR				0.0011	4,345.00							4,345	
	TAX - STATE BUSINESS	NIC	;												NIC	
	TAX - WA STATE SALES TAX	NIC	;												NIC	
	PERMITS	NIC	;												NIC	
01.45.23.10	TESTING LABORATORY SERVICES	NIC	;												NIC	
01.02.10.10	PROJECT MANAGER (12 MO x 60 MH/MO)	720.00	MH				125.00	90,000.00							90,000	
01.03.30.10	SUPERINTENDENT (12 MO x 174 MH/MO)	2,088.00	MH				90.00	187,920.00							187,920	
01.02.40.10	PROJECT ADMINISTRATOR (12 MO x 40 MH/MO)	480.00	MH				35.00	16,800.00							16,800	
01.04.88.10	YARD LABOR	250.00	MH				40.00	10,000.00							10,000	
01.07.48.10	TEMP IT/COMMUNICATION	12.00	MON				400.00	4,800.00							4,800	
01.52.13.15	TEMPORARY OFFICE	12.00	MON				425.00	5,100.00							5,100	
01.52.13.78	TEMPORARY OFFICE UTILITIES	12.00	MON				300.00	3,600.00							3,600	
01.07.55.55	OFFICE SETUP & CONSUMABLES	1.00	EA		20 60.00	1,200.00	400.00	400.00		1,200.00					2,800	
01.07.40.10	PICKUP TRUCK	12.00	MON						800.00	9,600.00					9,600	
	SAFETY TOOLS & EQUIPMENT (FALL PROTECTION)		MON				1,600.00	19,200.00							19,200	
	POSTAGE & U.P.S.	12.00	MO				75.00	900.00							900	
01.77.01.10	CLOSEOUT PROCEDURES	1.00	LS	80.000	80 60.00	4,800.00	1,000.00	1,000.00							5,800	
	TOTAL				7,109	535,280.00		906,947.50		94,200.00				1,990,291.65	3,521,829	3,521,829
	01107 400											01100 400/			400.040	100.010
	OH&P - 12%											OH&P - 12%			422,619	422,619
	CONSTRUCTION TOTAL		TOTA	AL MANHOURS	7,109						CON	NSTRUCTION TOTAL			3,944,449	3,944,449
		TO	OTAL SI	F OF BUILDING	11,057											
	CONTINGENCY OWNER 20%										CONTIN	IGENCY OWNER 20%			788,890	788,890
				MHRS PER SF	0.6429											
	TOTAL											TOTAL			4,733,338	4,733,338
	COST/SF											COST/SF			428	428

		CURRENT	UNIT	LABOR		MATERIAL	MATERIAL			SUBCONTRACT	SUBCONTRACT	SUB	SUBCONTRACTOR	LINE	DIVISION
ITEM	DESCRIPTION	QUANTITY UNIT	LABOR	MANHOURS RATE	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	SUBTOTAL COST	CONTING	COST	TOTAL	TOTALS
DIVISION	l 31 - EARTHWORK														29,232
	SITE CLEANING AND STOCKPILING (GRAVEL LOT)	6,700.00 SF	SUB			SUB	SUB			2.00	13,400.00		13,400.00	13,400	23,202
	ROUGH GRADING `	26,500.00 SF	0.001								,		·	2,720	
	EXCAVATION - EXPORT DEWATERING	491.00 CY NIC	0.100	49 80.00	3,920.00	12.00	5,892.00							9,812 NIC	
312319	BACKFILLING - IMPORT	1.00 ALLW	10.000	10 80.00	800.00	2,500.00	2.500.00							3,300	
	TRENCHING & BACKFILL (AREA DRAIN)	IN BASE				_,,,,,,,,,								IN BASE	
	EROSION & SEDIMENTATION CONTROL	NIC												NIC	
	I 32 - SITE IMPROVEMENTS														111,866
321001	CONCRETE - SIDEWALKS & MISC.	32.00 CY	1.750			80.00	2,560.00							7,040	
	FORMING FINISHING	60.00 SFCA 2.554.00 SF	0.260 0.060		1,280.00 12,240.00	2.00 0.20	120.00 511.00							1,400 12,751	
	FG&S	2,474.00 SF	0.030		5,920.00	0.25	619.00							6,539	
32200	WEDLED WIRE FABRIC	2,809.00 SF	0.020		4,480.00	1.40	3,933.00							8,413	
	CONCRETE HANDLING	32.00 CY	2.000	64 80.00	5,120.00	5.00	100.00							5,120	
	CONCRETE ACCESSORIES UNDER SIDEWALK MATERIAL	32.00 CY 47.00 CY				5.00 30.00	160.00 1,410.00							160 1,410	
	ASPHALT PAVING	1,305.00 SY	SUB	SUB		SUB	SUB			32.00	41,760.00		41.760.00	41,760	
	BASE COURSE	218.00 CY									ABV		ABV	,	
	GRAVEL PARKING LOT	102.00 CY	0.180		1,440.00	40.00	4,080.00							5,520	
	CONCRETE BARRIER CURB PRECAST CONCRETE CURBS	554.00 LF 26.00 EA	SUB SUB			SUB SUB	SUB SUB			30.00 120.00	16,620.00 3,120.00		16,620.00 3,120.00	16,620 3,120	
	PAVEMENT STRIPING	848.00 LF	SUB			SUB	SUB			1.10	932.80		932.80	933	
	PAVEMENT MARKINGS	4.00 EA	SUB	SUB		SUB	SUB			25.00	100.00		100.00	100	
	BOLLARDS	4.00 EA	1.500	6 80.00	480.00	125.00	500.00							980	
	FENCING & GATES LANDSCAPING	IN BASE IN BASE												IN BASE	+
329000	IRRIGATION SYSTEM	NIC												NIC	
	LAWN REHABILITATION	IN BASE												IN BASE	
DIVISION	33 - SITE UTILITIES														(
	SITE WATER UTILITY DISTRIBUTION PIPING	NIC												NIC	
	WATER SERVICE CONNECTION	IN BASE												IN BASE	
	DISINFECTION OF WATER UTILITY PIPING SANITARY SEWERAGE PIPING	IN BASE NIC												IN BASE NIC	
	STORM UTILITY DRAINAGE PIPING	IN BASE												IN BASE	
	FOUNDATION DRAINAGE	NIC												NIC	
334900	STORM DRAINAGE STRUCTURES - CATCH BASINS	IN BASE												IN BASE	
CENEDA	GROUT PIPING	IN BASE												IN BASE	
	L REQUIREMENTS														11,840
	SITE SURVEY / LAYOUT UTILITY HOOK-UP FEES	NIC NIC									-			NIC	
	CONSTRUCTION POWER	1.00 MON	10.000	10 60.00	600.00		BY OWNER							600	
	TEMPORARY WATER	NIC NIC	10.000	10 00.00	000.00		BI OWNER							NIC	
	TEMPORARY NATURAL-GAS	NIC												NIC	
01.51.26.35	TEMPORARY LIGHTING	NIC												NIC	
	TEMPORARY HEATING	NIC					100.00							NIC	
	TEMPORARY SANITARY FACILITIES (2 EA) TEMPORARY CONSTRUCTION FENCING	1.00 MON NIC				160.00	160.00							160 NIC	
01.50.20.15	TEMPORARY STORM WATER POLLUTION CONTROL	NIC												NIC	
01.74.13.10	GENERAL CLEAN	1.00 MON	40.000	40 60.00	2,400.00									2,400	
01.74.19.20	GARBAGE DUMP	1.00 MON	8.000	8 60.00	480.00	800.00	800.00							1,280	
	TEMPORARY SIGNAGE	1.00 ALLW	10.000		600.00	500.00	500.00							1,100	
	MATERIAL & EQUIPMENT HANDLING	1.00 MON	10.000	10 60.00	600.00									600	
	TRUCK - 1-TON FLATBED - JOB VEHICLE	1.00 MON	10.000	40 00 00	000.00			950.00	950.00					950	
01.74.23.20	FINAL CLEAN EQUIP - FORKLIFT	1.00 ALLW 1.00 MON	10.000	10 80.00	800.00			250.00 2500.00	250.00 2,500.00					1,050 2,500	
01.54.19.20		NIC						2300.00	2,300.00					NIC	
01.01.10.20	MAN-LIFTS	NIC												NIC	
	EQUIPMENT - FUEL & MAINTENANCE	1.00 MON				700.00	700.00							700	
	CONSUMABLES	1.00 LS				500.00	500.00							500	
	L CONDITIONS														23,122
	PLAN REPRODUCTION	1.00 LS				100.00	100.00							100	
01.78.33.20		190,000.00 DLR				0.0083	1,567.50							1,568	
	INS - LIABILITY INS - BLDRS RISK	190,000.00 DLR 190,000.00 DLR				0.0080	1,520.00 209.00							1,520 209	
	TAX - STATE BUSINESS	190,000.00 DLR NIC				0.0011	209.00							NIC	
	TAX - WA STATE SALES TAX	NIC												NIC	
	PERMITS	NIC												NIC	
		NIC												NIC	

PLANS DATED: 09-20-2022

		CURREN	т	UNIT		LABOR	LABOR	MATERIAL	MATERIAL	EOI IIDMENT	EOHIDMENT	SUBCONTRACT	SUBCONTRACT	SUB	SUBCONTRACTOR	LINE	DIVISION
ITEM DECORIDATION					MANILIOLIDO												
ITEM DESCRIPTION		QUANTITY	UNIT	LABOR	MANHOURS	KAIE	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	SUBTOTAL COST	CONTING	COST	TOTAL	TOTALS
01.02.10.10 PROJECT MANAGER (1 MO x 60 MH/MO)		60.00						125.00	7,500.00							7,500	
01.03.30.10 SUPERINTENDENT (1 MO x 80 MH/MO)		80.00	MH					90.00	7,200.00							7,200	
01.02.40.10 PROJECT ADMINISTRATOR (1 MO x 40 MF	I/MO)	40.00	MH					35.00	1,400.00							1,400	
01.04.88.10 YARD LABOR		25.00	MH					40.00	1,000.00							1,000	
01.07.48.10 TEMP IT/COMMUNICATION		1.00	MON					400.00	400.00							400	
01.52.13.15 TEMPORARY OFFICE		NIC														NIC	
01.52.13.78 TEMPORARY OFFICE UTILITIES		NIC														NIC	
01.07.55.55 OFFICE SETUP & CONSUMABLES		NIC														NIC	
01.07.40.10 PICKUP TRUCK		1.00	MON							800.00	800.00					800	
01.04.49.10 SAFETY TOOLS & EQUIPMENT		1.00	MON					500.00	500.00							500	
POSTAGE & U.P.S.		1.00						75.00	75.00							75	
01.77.01.10 CLOSEOUT PROCEDURES		1.00	LS	10.000	10	60.00	600.00	250.00	250.00							850	
TOTAL					634		40,000,00		40,000,50		4 500 00				75,000,00	470.050	170.0
TOTAL					034		48,960.00		46,666.50		4,500.00				75,932.80	176,059	176,0
	OH&P - 10%												OH&P - 10%)		17,606	17,60
CONST	RUCTION TOTAL			MANHOURS								CON	STRUCTION TOTAL			193,665	193,6
CONTINGE	NCY OWNER 20%	ТО	TAL SF	OF BUILDING	N/A							CONTIN	GENCY OWNER 20%			38,733	38,7
CONTINGE	INCT OWNER 20%		N	IHRS PER SF	N/A							CONTING	JENOT OWNER 20%	,		30,733	30,7
	TOTAL												TOTAL			232,398	232,39

