CLASS D ESTIMATE

METCHOSIN FIRE HALL NEW CONSTRUCTION METCHOSIN, BRITISH COLUMBIA

Prepared for: Johnson Davidson Architecture

July 24, 2025

July 24, 2025 Ref # VAN3699

Hanscomb

OUANTITY SURVEYORS

Johnson Davidson Architecture Suite 301 - 877 East Hastings Street Vancouver, British Columbia V6A 3Y1

T: (604) 684-3338 E: ed@jdarch.ca

Attn: Edward Craig

Re: Metchosin Fire Hall, New Construction, Metchosin, British Columbia

Dear Edward Craig:

Please find attached our Class D Estimate for the Metchosin Fire Hall, New Construction in Metchosin, British Columbia.

This Class D Estimate is intended to provide a realistic allocation of direct construction costs and is a determination of fair market value. Pricing shown reflects probable construction costs obtainable in the Metchosin, British Columbia area on the effective date of this report and is not a prediction of low bid. Pricing assumes competitive bidding for every portion of the work.

Hanscomb has prepared this estimate(s) in accordance with generally accepted principles and practices. Our general assumptions are included in Section 3 of this report and any exclusions are identified in Section 1.6. For quality assurance, this estimate has been reviewed by the designated Team Lead, as signed below. Hanscomb staff are available and pleased to discuss the contents of this report with any interested party.

Requests for modifications of any apparent errors or omissions to this document must be made to Hanscomb within ten (10) days of receipt of this estimate. Otherwise, it will be understood that the contents have been concurred with and accepted.

We trust our estimate is complete and comprehensive and provides the necessary information to allow for informed capital decisions for moving this project forward. Please do not hesitate to contact us if you have any questions or require additional information.

Yours truly,

**Hanscomb Limited** 

Team Lead

Albert Allan O. Antolin BSc.CE, PQS Technical Manager **Hanscomb Limited** 

Principal / Estimate Reviewer

Indu Elapatha PQS(F), MRICS Manager **Hanscomb Limited** 

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# **EXECUTIVE SUMMARY**

This Class D Estimate is intended to provide a realistic allocation of direct construction costs for the Metchosin Fire Hall, New Construction, located in Metchosin, British Columbia. Hanscomb recommends that the Owner and design team carefully review this document, including line-item descriptions, unit prices, exclusions, inclusions, assumptions, contingencies, escalation, and mark-ups. If the project is over budget or has unresolved budgeting issues, alternatives should be evaluated before proceeding to the next design phase.

The following are the highlights of this Class D Estimate:

# **Project Cost Highlights:**

Gross Floor Area (GFA) 1,618 m2
Unit (count, linear measure, etc.) N/A

Total Construction Cost \$16,429,500
Cost per GFA \$10.154.20/m2



**Allowances** included in the estimate:

- 15.0% design & pricing contingency
- 10.0% escalation from July 2025 to the approaching construction start in 2027
- 5.0% construction contingency (excluded in the above construction cost and provided separately as an Owner's contingency on the summary page)



The Degree of Accuracy expected for this Class D Estimate is +/-20-30%. In other words, bid results might vary by this amount if the construction budget were set at this milestone estimate. In today's market, projects are trending to the higher end of the plus range.

# **Base Assumptions:**

All costs are estimated on the basis of **competitive bids** (a minimum of at least 3 general contractor bids and at least 3 subcontractor bids for each trade) being received in Metchosin, British Columbia in **July 2025** based on a **stipulated sum** form of contract. If these conditions are not met, bids received could be expected to exceed this estimate.

#### **Exclusions**

- Geotechnical consideration (soil improvement, piling, dewatering, rock excavation, etc)
- Back-up Generator equipment
- · PV solar panel system requirements
- Equipment beyond that identified in this estimate
- Decanting / Relocation of temporary relocation of occupants, operations, or equipment from an existing facility to an alternate location.
- Overtime premiums for work done outside normal working hours
- Escalation contingency beyond that identified in this estimate
- Financing costs
- Loose furniture, furnishings and equipment
- · Third party commissioning costs
- Winter Construction (Concrete foundation and masonry heating & hoarding)
- Value-added tax (e.g. Goods and Services Tax, or other)
- Soft Costs (e.g. professional fees, building permit, development charges, owner's staff and management, relocation costs, etc.)
- Unexpected labour unavailability and productivity disruptions leading to delays and added costs
- Supply chain disruptions leading to delays and added costs
- Any premiums resulting from Canadian or Foreign government-imposed tariffs

### Note:

The construction cost included in the executive summary excludes the cost of the temporary facility and demolition of the existing buildings.

The details of this estimate are provided in the subsequent pages of this report for your review, comment and acceptance.



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# Estimates:

- A Elemental Cost Summary
- B Basis and Assumptions for Class D Estimate

# **Documents and Drawings:**

- AA Documents and Drawings List
- AB Representative Drawings



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# 1. INTRODUCTION

# 1.1 PURPOSE

This Class D Estimate is intended to provide a realistic allocation of direct construction costs for the Metchosin Fire Hall, New Construction, located in Metchosin, British Columbia, with the exception of the items listed in 1.6 Exclusions.

### 1.2 DESCRIPTION

The Metchosin Fire Hall, New Construction located in Metchosin, British Columbia is comprised of the following key elements:

This project involves the new construction of a two-storey Fire Hall with a total gross floor area of 1,618 m². The facility will be built using conventional wood framing on a slab-on-grade foundation supported by standard pad and strip footings. The primary structural system will feature glulam (glued-laminated timber) columns and beams, supporting a metal deck roof structure.

The building envelopes, interior finishes, and mechanical and electrical systems will align with standard fire hall design and performance specifications, ensuring functionality, durability, and compliance with applicable codes.

Sitework includes site clearing, cutting and removal of existing trees, rough grading, hardscaping/landscaping and site furnishings including associated mechanical and electrical site services.

The required estimate for new construction also includes separate pricing as follows:

- Temporary Fire Hall facility
- Demolition of existing Fire Hall office building/quarter and Apparatus Bay.

#### 1.3 METHODOLOGY

Hanscomb has prepared this estimate(s) in accordance with generally accepted principles and practices. Hanscomb staff are available to discuss its contents with any interested party.

From the documentation and information provided, quantities of all major elements were assessed or measured where possible and priced at rates considered competitive for a project of this type under a stipulated sum form of contract in Metchosin, British Columbia.

Pricing shown reflects probable construction costs obtainable in the Metchosin, British Columbia area on the effective date of this report. This estimate is a determination of fair market value for the construction of this project. It is not a prediction of low bid. Pricing assumes competitive bidding for every portion of the work.

# 1.4 SPECIFICATIONS

For building components and systems where specifications and design details are not available, quality standards have been established based on discussions with the design team.



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# 1. INTRODUCTION

#### 1.5 ESTIMATE CLASSIFICATION AND COST PREDICTABILITY

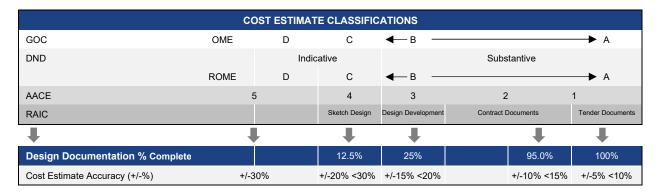
Estimates are defined and classified based on the stage of a project's development and the level of information available at the time of the milestone estimate.

This Class D Estimate is considered to have an expected degree of accuracy of +1-20-30%. In other words, bid results might vary by this amount if the construction budget were set at this milestone estimate. Under stable market conditions, fierce competition and scope reduction might result in costs coming in under the milestone estimate. However, in today's market, projects are trending to the higher end of the plus range.

At the initial stages of a contemplated project, the cost accuracy of the estimate is low as there may be little or no information available to inform a first high-level concept estimate or order of magnitude estimate. As a project nears design completion and is ready to be released to market for tender, the level of accuracy of the estimate is high as the detail is generally extensive and typically represents the information on which contractors will bid.

Milestone cost estimates or "checks" are recommended as the project design develops to keep track of scope and budget. Early detection of potential budget overruns will allow for remedial action before design and scope are locked in. The number of milestone estimates will depend on a project's size and schedule and cost predictability will improve as the design advances.

According to the Canadian Joint Federal Government/Industry Cost Predictability Taskforce, industry standards for estimate classification and cost estimate accuracy may be summarized as follows:



# Legend

GOC Government of Canada

DND Department of National Defence

AACE Association for the Advancement of Cost Engineering

RAIC Royal Architectural Institute of Canada

OME Order of Magnitude Estimate

ROME Rough Order of Magnitude Estimate

While the classification categories differ from one authority to the next, the overarching principle for cost predictability remains the same – as the level of detail and design development increases, so does the level of accuracy of the estimate.



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# 1. INTRODUCTION

#### 1.6 EXCLUSIONS

This Class D Estimate does not provide for the following, if required:

- Geotechnical consideration (soil improvement, piling, dewatering, rock excavation, etc)
- Back-up Generator equipment
- PV solar panel system requirements
- Equipment beyond that identified in this estimate
- Decanting / Relocation of temporary relocation of occupants, operations, or equipment from an existing facility to an alternate location.
- Overtime premiums for work done outside normal working hours
- Escalation contingency beyond that identified in this estimate
- Financing costs
- Loose furniture, furnishings and equipment
- · Third party commissioning costs
- Winter Construction (Concrete foundation and masonry heating & hoarding)
- Value-added tax (e.g. Goods and Services Tax, or other)
- Soft Costs
  - Building permit
  - Development charges
  - Easement costs
  - Fund raising costs
  - Land acquisition costs and impost charges
  - Legal fees and expenses
  - Owner's staff and associated management
  - Preventative maintenance contracts
  - Professional fees and expenses
  - Relocation of existing facilities, including furniture and equipment
  - Right of way charges
  - Value-added tax (e.g. Harmonized Sales Tax, Goods and Services Tax, or other)
- Unexpected labour unavailability and productivity disruptions leading to delays and added costs
- Supply chain disruptions leading to delays and added costs
- Any premiums resulting from Canadian or Foreign government-imposed tariffs



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# 2. DOCUMENTATION

This Class D Estimate has been prepared from the documentation included in Appendix AA of this report.

All of the above documentation was received from Johnston Davidson Architecture and was supplemented with information gathered in meeting(s) and telephone conversations with the design team, as applicable.

Design changes and/or additions made subsequent to this issuance of the documentation noted above have not been incorporated in this report.



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# 3. COST CONSIDERATIONS

#### 3.1 COST BASE

All costs are estimated on the basis of competitive bids (a minimum of at least 3 general contractor bids and at least 3 subcontractor bids for each trade) being received in July 2025 from general contractors and all major subcontractors and suppliers based on a stipulated sum form of contract. If these conditions are not met, bids received could be expected to exceed this estimate.

# 3.2 UNIT RATES

The unit rates in the preparation of this Class D Estimate include labour and material, equipment, subcontractor's overheads and profit. Union contractors are assumed to perform the work with the fair wage policy in effect.

#### 3.3 GENERAL REQUIREMENTS AND FEE

General Requirements and Fee cover the General Contractor's indirect costs, which may include but not be limited to supervision, site set up, temporary utilities, equipment, utilities, clean up, etc., as covered in Division 1 General Conditions of the Contract Documents. It also includes the contractor's fees and should not be confused with Design or Consultant fees, which are excluded from the Construction Costs and carried separately in the Owner's Total Project Costs.

# 3.4 DESIGN AND PRICING ALLOWANCE

An allowance of 15.0% has been included to cover design and pricing unknowns. This allowance is not intended to cover any program space modifications but rather to provide some flexibility for the designers and cost planners during the remaining contract document stages.

It is expected that this allowance amount will be absorbed into the base construction costs as the design advances. The amount with which this allowance is reduced corresponds to an increase in accuracy and detailed design information. Hanscomb recommends that careful consideration be made at each milestone estimate to maintain adequate contingency for this allowance.

As a project nears completion of design, Hanscomb recommends retaining some contingency for this allowance for the final coordination of documents.

### 3.5 ESCALATION ALLOWANCE

All costs are based on July 2025 dollars with 10.0% construction cost escalation included to cover increases that may occur between July 2025 and the approaching construction start for the project in 2027.

The budgeted amount will typically decline as the time to award nears. If escalation is taken to the start of construction, escalation during construction is included in the unit rates. If escalation is taken to the midpoint of construction, it is because the market is volatile or the project is considerably large with a construction duration of more than 2-3 years, making it difficult to secure firm pricing at tender.

Forecasting escalation requires careful assessment of a continually changing construction market, which, at best, is difficult to predict. The escalation rate should be monitored.



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# 3. COST CONSIDERATIONS

#### 3.6 CONSTRUCTION ALLOWANCE

An allowance of 5.0% has been made to cover construction (post contract) unknowns. This allowance, also known as the Post Contract Contingency (PCC), is intended to cover costs for change orders during construction that are not foreseeable. It is not intended to cover scope changes to the contract. The amount carried in the budget for this allowance is typically set at the initial planning stage and should be based on the complexity of the project and the probability of unknowns and retained risks.

#### 3.7 CASH ALLOWANCE

Cash allowances are intended to allow the contractor to include in the bid price the cost for work that is difficult to fully scope at the time of tendering based on factors that are beyond the Owner and Prime Consultant's control. Cash allowances attempt to reduce the risks by dedicating a set amount for use against a certain cost that cannot yet be detailed. The Contractor is obligated to work as best as possible within the limitations of the Cash Allowance.

Examples of Cash Allowances include hardware, inspection and testing, site conditions, replacement of existing elements during demolition for renovation, hazardous materials abatement, signage, etc.

Any Cash Allowances, if applicable, are included either in the details of this estimate under the appropriate discipline or at the summary level.

# 3.8 TAXES

No provision has been made for the Goods and Services Tax. It is recommended that the owner make separate provision for GST in the project budget.

### 3.9 SCHEDULE

Pricing assumes a standard work schedule appropriate to the size and scope of this project. Premiums for off-hour work, working in an operational facility, accelerated schedule, etc., if applicable, are identified separately in the body of the estimate.

# 3.10 CARBON QUANTIFICATION AND PRICING

The significance and understanding of carbon costs in construction is growing. These costs arise from two main sources: the 'embodied' carbon present in the materials and emitted during the construction activities, and the 'operational' carbon emissions resulting from the asset's use over time. The unit rates in this estimate are inclusive of carbon taxes during construction where applicable. Evaluation of embodied carbon, operational carbon, and its costs is an additional service that can be provided on request.

### 3.11 STATEMENT OF PROBABLE COSTS

Hanscomb has no control over the cost of labour and materials, the contractor's method of determining prices, or competitive bidding and market conditions. This opinion of probable cost of construction is made on the basis of experience, qualifications and best judgment of the professional consultant familiar with the construction industry. Hanscomb cannot and does not guarantee that proposals, bids or actual construction costs will not vary from this or subsequent cost estimates.



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# 3. COST CONSIDERATIONS

#### 3.12 ONGOING COST CONTROL

Hanscomb recommends that the Owner and design team carefully review this document, including line item description, unit prices, clarifications, exclusions, inclusions and assumptions, contingencies, escalation, and mark-ups. If the project is over budget, or if there are unresolved budgeting issues, alternative systems/schemes should be evaluated before proceeding into the next design phase.

It is recommended that a final updated estimate at the end of the design stage be produced by Hanscomb using Bid Documents to determine overall cost changes which may have occurred since the preparation of this estimate. The final updated estimate will address changes and additions to the documents, as well as addenda issued during the bidding process. Hanscomb cannot reconcile bid results to any estimate not produced from bid documents, including all addenda.

This estimate does not constitute an offer to undertake the work, nor is any guarantee given that an offer to undertake the work at the estimate(s) price will subsequently be submitted by a construction contractor. Unless explicitly stated otherwise, it is assumed that competitive bids will be sought when tender documents have been completed. Any significant deviation between bids received and a pre-tender estimate prepared by Hanscomb from the same tender documents should be evaluated to establish the possible cause(s).

# 3.13 CURRENT RISKS TO CONSTRUCTION ESCALATION:

The construction market is relatively heated across the country. Because of the significant volume of activity, Hanscomb has observed that the normal number of general contractors and sub-trades bidding on projects has been reduced. Less competition during tendering often results in elevated project pricing. We expect this trend to continue for the following reasons:

- The volume of work exceeds the capacity of available resources
- An aging workforce contributes to pressure through the ever-increasing retirement of trade workers
- All members within the construction community are actively looking for new personnel and are having trouble finding qualified candidates
- Contractors are generally competing for the same tradespeople, offering higher than normal salaries and benefits, translating into higher costs
- Global conflicts affecting the global commodity pricing and supply chain

The above risks may be amplified under the following conditions:

- Any premiums resulting from Canadian or Foreign government-imposed tariffs.
- Global events, including pandemics such as COVID-19, adverse weather events, etc.
- Remote or less densely populated areas where materials and labour cannot be sourced locally and transportation, accommodation and incentives impact schedule and cost

Where any of the above may be a factor, Hanscomb highly recommends conducting appropriate risk analyses, including market sounding. Hanscomb can assist; however, this level of risk assessment is outside the scope of this estimate.



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# 4. GROSS FLOOR AND SITE DEVELOPED AREAS

The following areas have been measured in accordance with the Canadian Institute of Quantity Surveyors' Measurement of Buildings by Area and Volume.

# 4.1 GROSS FLOOR AREA (GFA)

Description	GFA
New Construction	
Admin / Quarters / Spine	1,049 m2
Apparatus Bay	533 m2
Hose Tower	36 m2
Total GFA	1,618 m2
Temporary Facility	
Office / Quarters	134 m2
Apparatus Bay	540 m2
Decon Washroom / Storage	150 m2
Total GFA	824 m2
<b>Building Demolition</b>	
Office / Quarters	530 m2
Apparatus Bay	372 m2
Total GFA	902 m2

# 4.2 SITE DEVELOPED AREA

Description	SDA
Project Site Area (+/-)	3,850 m2
Building footprint	-1,183 m2
Total Site Developed Area	2,667 m2

Site Developed Area is the area of the site, less the foot-print area of the building.



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# 5. CONSTRUCTION COST ESTIMATE SUMMARY

Description	Building (Admin/Q	uarters + Apparatus)	Site Work	Total	
Description	GFA	1,618 m2	2,667 m2	1,618 m2	
Main Building		\$8,660,800	\$798,000	\$9,458,800	
Hose Tower		\$649,700		\$649,700	
Site Work					
A - Net Construction Cost		\$9,310,500	\$798,000	\$10,108,500	
	\$/m2	\$5,754.33	\$299.21	\$6,247.53	
General Requirements	8.0%	\$744,800	\$63,800	\$808,600	
Contractor's Overhead & Fee	3.0%	\$301,700	\$25,900	\$327,600	
B - Construction Cost (including G/R &	Fees)	\$10,357,000	\$887,700	\$11,244,700	
	\$/m2	\$6,401.11	\$332.85	\$6,949.75	
Location Factor	10.0%	\$1,035,700	\$88,800	\$1,124,500	
Design & Pricing Allowance	15.0%	\$1,708,900	\$146,500	\$1,855,400	
Escalation Allowance	10.0%	\$1,310,200	\$112,300	\$1,422,500	
Construction Allowance	5.0%	\$720,600	\$61,800	\$782,400	
C - Total Contingency		\$4,775,400	\$409,400	\$5,184,800	
	\$/m2	\$2,951.42	\$153.51	\$3,204.45	
Tax (GST)	Excluded	\$0	\$0	\$0	
Total Construction Cost (B + C)		\$15,132,400	\$1,297,100	\$16,429,500	
	\$/m2	\$9,352.53	\$486.35	\$10,154.20	

# Separate Price:

Below construction cost is excluded from the above total construction cost (refer to page 12 for the cost summary):

1. Temporary Facility \$4,021,900.00

2. Demilition of existing buildings \$626,400.00

#### Note:

- 1. The mark-up for General Requirements is calculated by multiplying the net construction cost by the applicable percentage (8%). While, the Contractor's Overhead and Fee is calculated by applying the fee percentage (3%) to the compounded amount (example for New Admin/Quarters: compounded \$9,310,500 + \$744,800 = \$10,055,300 x 3% = \$301,659, rounded to \$301,700)
- 2. The mark-up for Contingency is also calculated based on compounded total amount multiply by the applicable percent.
- Location Factor: 10% of the Construction cost (including G/R & Fee)
- Design & Pricing Allowance: 15% of the compounded total amount (Construction Cost + Location Factor)
- Escalation Allowance: 10% of the compunded total amount (Construction Cost + Location Factor + Design & Pricing)
- Construction allowance: 5% of the compounded total amount (Construction Cost + Location Factor + Design & Pricing + Escalation)



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# 5. CONSTRUCTION COST ESTIMATE SUMMARY

Description		Temporary Facility	Building Demolition
Description	GFA	824 m2	902 m2
Temporary Building (Tent/Trailers)		\$2,410,300	\$338,300
Site Work		\$300,000	\$83,800
A - Net Construction Cost		\$2,710,300	\$422,100
	\$/m2	\$3,289.20	\$467.96
General Requirements	8.0%	\$216,800	\$33,800
Contractor's Overhead & Fee	3.0%	\$87,800	\$13,700
B - Construction Cost (including G/R & F	ees)	\$3,014,900	\$469,600
	\$/m2	\$3,658.86	\$520.62
Location Factor	5.0%	\$150,700	\$23,500
Design & Pricing Allowance	10.0%	\$316,600	\$49,300
Escalation Allowance	10.0%	\$348,200	\$54,200
Construction Allowance	5.0%	\$191,500	\$29,800
C - Total Contingency		\$1,007,000	\$156,800
	\$/m2	\$1,222.09	\$173.84
Tax (GST)	Excluded	\$0	\$0
Total Construction Cost (B + C)		\$4,021,900	\$626,400
	\$/m2	\$4,880.95	\$694.46

#### Note:

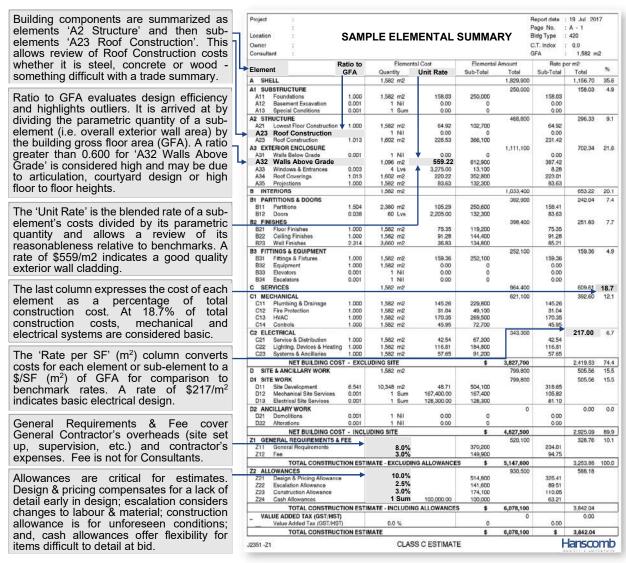
- 1. The mark-up for General Requirements is calculated by multiplying the net construction cost by the applicable percentage (8%). While, the Contractor's Overhead and Fee is calculated by applying the fee percentage (3%) to the compounded total amount (example for Temp. Facility: compounded \$2,710,300 + \$216,800 = \$2,927,100 x 3% = \$87,813, rounded to \$87,800)
- 2. The mark-up for Contingency is also calculated based on compounded total amount multiply by the applicable percent.
- Location Factor: 5% of the Construction cost (including G/R & Fee)
- Design & Pricing Allowance: 10% of the compounded total amount (Construction Cost + Location Factor)
- Escalation Allowance: 10% of the compunded total amount (Construction Cost + Location Factor + Design & Pricing)
- Construction allowance: 5% of the compounded total amount (Construction Cost + Location Factor + Design & Pricing + Escalation)



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# 6. UNDERSTANDING THE ELEMENTAL COST SUMMARY

Cost information prepared and presented by Quantity Surveyors is often organized in a form referred to as the 'Elemental Cost Summary'. In this format, the more 'intuitive' building elements (e.g. foundations, exterior cladding, plumbing, etc.) are evaluated rather than materials or trades. Quantity Surveyors track this information consistently from project to project to benchmark not just the overall building unit rate but also rates and ratios for key elements. Below are some key features of the Elementary Cost Summary.



By using this format consistently across all projects, Quantity Surveyors can compare projects and better understand why the 'roof covering' element may be more on this project if it's fulfilling the same function as a similar project.

Note: The above sample is based on the CIQS Elemental format. The fundamental principles of reading the information are the same for summaries reported based on UNIFORMAT.



Appendix
A - Elemental Cost Summary

**New Construction - Fire Hall** 



Project : Metchosin Fire Hall Report date : 21 Jul 2025

: New Construction - Building & Hose Tower

: 1 Page No. Location : Metchosin, BC **ELEMENTAL COST SUMMARY** Bldg Type : 380 Owner : District of Metchosin C.T. Index : 0.0

: Johnston Davidson Architecture Consultant GFA : 1,618 m2

Consultant : Johnston Da	Ratio	Elemen	tal Coet	Elementa		Rate p	: 1,018 m	
Element	to GFA	Quantity	Unit rate	Sub-Total	Total	Sub-Total	Total	%
A SHELL	IO GI A	1,618 m2	Omi rate	Sub-Total	4,674,600	Jub-Total	2,889.12	45.1
A1 SUBSTRUCTURE		1,010 1112			580,600		358.84	5.6
A11 Foundations	0.710	1,147 m2	419.00	480,600	000,000	297.03	000.04	0.0
A12 Basement Excavation		,		, 0		0.00		
A13 Special Conditions	0.000	1 Sum	100,000.00	100,000		61.80		
A2 STRUCTURE					1,893,000		1,169.96	18.3
A21 Lowest Floor Construc		1,147 m2	210.00	241,300		149.13		
A22 Upper Floor Construct		614 m2	542.00	332,600		205.56		
A23 Roof Construction	0.710	1,147 m2	1,150.00	1,319,100		815.27		
A3 EXTERIOR ENCLOSURE				0	2,201,000	0.00	1,360.32	21.3
A31 Walls Below Grade A32 Walls Above Grade	0.600	976 m2	964.00	0 940,400		0.00 581.21		
A33 Windows & Entrances		178 m2	2,421.00	431,000		266.38		
A34 Roof Coverings	0.710	1,147 m2	475.00	544,900		336.77		
A35 Projections	0.000	1 Sum	284,700.00	284,700		175.96		
B INTERIORS		1,618 m2			1,406,700		869.41	13.6
B1 PARTITIONS & DOORS					627,600		387.89	6.1
B11 Partitions	0.980	1,582 m2	220.00	348,100		215.14		
B12 Doors	0.980	1,582 m2	177.00	279,500		172.74		
B2 FINISHES					428,100		264.59	4.1
B21 Floor Finishes	0.980	1,582 m2	85.00	134,700		83.25		
B22 Ceiling Finishes	0.980	1,582 m2	101.00	159,000		98.27		
B23 Wall Finishes	0.980	1,582 m2	85.00	134,400		83.07		
B3 FITTINGS & EQUIPMENT					351,000		216.93	3.4
B31 Fittings & Fixtures	0.980	1,582 m2	167.00	263,500		162.86		
B32 Equipment B33 Elevators	0.980	1,582 m2	55.00	87,500		54.08 0.00		
		1.6100		0	2 570 500	0.00	1 504 05	24.0
		1,618 m2			2,579,500		1,594.25	24.9
C1 MECHANICAL C11 Plumbing & Drainage	0.980	1,582 m2	161.00	055,000	1,174,100	157.60	725.65	11.3
C11 Plumbing & Drainage C12 Fire Protection	0.980	1,582 m2	161.00 78.00	255,000 124,100		157.60 76.70		
C13 HVAC	0.980	1,582 m2	430.00	680,000		420.27		
C14 Controls	0.980	1,582 m2	73.00	115,000		71.08		
C2 ELECTRICAL					1,405,400		868.60	13.6
C21 Service & Distribution	0.980	1,582 m2	128.00	202,500	, , , , , , , , , , , , , , , , , , , ,	125.15		
C22 Lighting, Devices & He	eating 0.980	1,582 m2	253.00	401,000		247.84		
C23 Systems & Ancillaries	0.980	1,582 m2	507.00	801,900		495.61		
	COST - EXCLU	DING SITE		\$	8,660,800		5,352.78	83.6
D SITE & ANCILLARY WORK	Κ	1,618 m2			649,700		401.55	6.3
D1_SITE WORK				_	0		0.00	0.0
D11 Site Development				0		0.00		
D12 Mechanical Site Services				0		0.00		
D13 Electrical Site Services D2 ANCILLARY WORK	5			U	649,700	0.00	401.55	6.3
D20 Hose Tower	0.020	36 m2	18,047.00	649,700	049,700	401.55	401.33	0.5
D21 Demolitions	0.020	OO IIIZ	10,047.00	043,700		0.00		
D22 Alterations				Ō		0.00		
NET BUILDING	COST - INCLU	DING SITE		\$	9,310,500		5,754.33	89.9
Z1 GENERAL REQUIREMEN				,	1.046.500		646.79	10.1
Z11 General Requirements		8.0 %		744,800		460.32		
Z12 Fee		3.0 %		301,700		186.46		
TOTAL CONST	RUCTION ESTIN	IATE - EXCLUDII	NG ALLOWANCE	S \$	10,357,000		6,401.11	100.0
Z2 ALLOWANCES					4,775,400		2,951.42	
Z20 Location Factor		10.0 %		1,035,700		640.11		
Z21 Design & Pricing Allow		15.0 %		1,708,900		1,056.18		
Z22 Escalation Allowance,		10.0 %		1,310,200		809.77		
Z23 Construction Allowand		5.0 %		720,600		445.36		
	RUCTION ESTIN	IATE - INCLUDIN	IG ALLOWANCE	S \$	15,132,400		9,352.53	
_ VALUE ADDED TAX (GST/	/HST)				0		0.00	
<b>VALUE ADDED TAX (GST</b> / Value Added Tax (GST	/HST)	0.0 %		0 <b>\$</b>	0 15,132,400	0.00 <b>\$</b>	9,352.53	

Appendix
A - Elemental Cost Summary

**New Construction – Site Work** 



Project : Metchosin Fire Hall

Location

: New Construction - Site Work

Report date : 21 Jul 2025 Page No. : 1

ELEMENTAL COST SUMMARY

Owner : District of Metchosin

Bldg Type : 380 C.T. Index : 0.0

Consultant : Johnston Davidson Architecture

: Metchosin, BC

GFA : 2,667 m2

Consult	ant: Johnston Davidso	n Archite	ecture			(	GFA	: 2,667 m	12	
Element		Ratio	Elemei	ntal Cost	Elemental	Amount	Rate p	er m2	0/	
Element		to GFA	Quantity	Unit rate	Sub-Total	Total	Sub-Total	Total	%	
A SHI			2,667 m2			0		0.00	0.0	
	BSTRUCTURE					0		0.00	0.0	
A11	Foundations				0		0.00			
A12	Basement Excavation				0		0.00			
A13	Special Conditions				0		0.00			
	RUCTURE Lowest Floor Construction					0	0.00	0.00	0.0	
A21 A22	Upper Floor Construction				0		0.00			
A22 A23	Roof Construction				0		0.00			
	TERIOR ENCLOSURE				U	0	0.00	0.00	0.0	
A3 EA1	Walls Below Grade				0	U	0.00	0.00	0.0	
A31	Walls Above Grade				0		0.00			
A33	Windows & Entrances				Ö		0.00			
A34	Roof Coverings				Ö		0.00			
A35	Projections				ő		0.00			
	ERIORS		2,667 m2			0	0.00	0.00	0.0	
	RTITIONS & DOORS		_,			0		0.00	0.0	
B11	Partitions				0	J	0.00	0.00	0.0	
B12	Doors				ő		0.00			
B2 FIN						0	0.00	0.00	0.0	
B21	Floor Finishes				0		0.00	0.00	0.0	
B22	Ceiling Finishes				ő		0.00			
B23	Wall Finishes				0		0.00			
B3 FIT	TINGS & EQUIPMENT					0		0.00	0.0	
B31	Fittings & Fixtures	1.000	2,667 m2	0.00	0		0.00			
B32	Equipment	1.000	2,667 m2	0.00	0		0.00			
B33	Elevators		,		0		0.00			
B34	Escalators				0		0.00			
C SEF	RVICES		2,667 m2			0		0.00	0.0	
C1 ME	CHANICAL					0		0.00	0.0	
C11	Plumbing & Drainage	1.000	2,667 m2	0.00	0		0.00			
C12	Fire Protection	1.000	2,667 m2	0.00	0		0.00			
C13	HVAC	1.000	2,667 m2	0.00	0		0.00			
C14	Controls	1.000	2,667 m2	0.00	0		0.00			
C2 ELF	ECTRICAL					0		0.00	0.0	
C21	Service & Distribution	1.000	2,667 m2	0.00	0		0.00			
C22	Lighting, Devices & Heating	1.000	2,667 m2	0.00	0		0.00			
C23	Systems & Ancillaries	1.000	2,667 m2	0.00	0		0.00			
	NET BUILDING COST	Γ - EXCI	LUDING SITE		\$	0		0.00	0.0	
D SIT	E & ANCILLARY WORK		2,667 m2			798,000		299.21	89.9	
D1 SIT	E WORK					798,000		299.21	89.9	
D11	Site Development	1.000	2,667 m2	187.00	498,600		186.95			
D12	Mechanical Site Services	0.000	1 Sum	174,400.00	174,400		65.39			
D13	Electrical Site Services	0.000	1 Sum	125,000.00	125,000		46.87			
D2 AN	CILLARY WORK					0		0.00	0.0	
D21	Demolitions				0		0.00			
D22	Alterations				0		0.00			
	NET BUILDING COST	T - INCL	UDING SITE		\$	798,000		299.21	89.9	
Z1 GE	NERAL REQUIREMENTS & F	EE				89,700		33.63	10.1	
Z11	General Requirements		8.0 %		63,800		23.92			
Z12	Fee		3.0 %		25,900		9.71			
	TOTAL CONSTRUCT	ION EST	IMATE - EXCLUD	ING ALLOWANC	ES \$	887,700		332.85	100.0	
Z2 ALI	LOWANCES					409,400		153.51		
Z20	Location Factor		10.0 %		88,800		33.30			
Z21	Design & Pricing Allowance		15.0 %		146,500		54.93			
Z22	Escalation Allowance, 2 Yrs		10.0 %		112,300		42.11			
222	Construction Allowance		5.0 %		61,800		23.17			
Z23	O OTTOLI GOLIOTI / TITO WATTOO									
	TOTAL CONSTRUCT	ION EST	IMATE - INCLUDI	NG ALLOWANCE	ES \$	1,297,100		486.35		
Z23		ION EST	IMATE - INCLUDI	NG ALLOWANCE	ES \$	<b>1,297,100</b> 0		486.35 0.00		
Z23	TOTAL CONSTRUCT	ION EST	IMATE - INCLUDI 0.0 %	NG ALLOWANCE	ES \$		0.00			

Appendix
A - Elemental Cost Summary

**Temporary Facility – Fire Hall** 



Project : Metchosin Fire Hall Report date : 21 Jul 2025

**New Construction - Temporary Facility** 

10.0 %

10.0 %

5.0 %

**TOTAL CONSTRUCTION ESTIMATE - INCLUDING ALLOWANCES** 

: Johnston Davidson Architecture

Ratio

Page No. : 1 : 380

384.22

422.57

232.40

\$

4,880.95

4.880.95

824 m2

GFA

Location : Metchosin, BC **ELEMENTAL COST SUMMARY** Bldg Type Owner : District of Metchosin C.T. Index : 0.0

Elemental Cost Elemental Amount Rate per m2 Element % to GFA Quantity Unit rate Sub-Total Sub-Total Total Α **SHELL** 824 m2 0 0.00 0.0 В **INTERIORS** 824 m2 0 0.00 0.0 С **SERVICES** 0 0.00 0.0 824 m2 **NET BUILDING COST - EXCLUDING SITE** \$ 0 0.00 0.0 3,289.20 SITE & ANCILLARY WORK 89.9 D 824 m2 2,710,300 D1 SITE WORK 300,000 364.08 10.0 Site Development 1,000 m2 150.00 150,000 182.04 D11 1.210 75,000 91.02 D12 Mechanical Site Services 1.210 1,000 m2 75.00 D13 **Electrical Site Services** 1.210 1,000 m2 75.00 75,000 91.02 **D2 ANCILLARY WORK** 2,410,300 2,925.12 80.0 Quarters, 1 - 24' x 60' 0.160 3,110.00 416,800 505.83 D23 134 m2 D24 Apparatus Bay, 1 - 49' x 118' 0.660 540 m2 3,289.00 1,776,000 2,155.34 D25 Decon Washroom Trailer, 12 x04050 45 m2 2,222.00 100,000 121.36 1,889.00 85,000 103.16 D26 Gear Storage Trailer 0.050 45 m2 D27 542.00 32,500 39.44 Steel Storage Container 4-20' 0.070 60 m2 **NET BUILDING COST - INCLUDING SITE** 3,289.20 \$ 2,710,300 89.9 Z1 GENERAL REQUIREMENTS & FEE 304,600 369.66 10.1 216,800 8.0 % 263.11 Z11 General Requirements Z12 3.0 % 87,800 106.55 Fee **TOTAL CONSTRUCTION ESTIMATE - EXCLUDING ALLOWANCES** 3,014,900 3,658.86 \$ 100.0 Z2 ALLOWANCES 1,007,000 1,222.09 150,700 182.89 Z20 Location Factor 5.0 %

316,600

348,200

191,500

\$

\$

4,021,900

4,021,900



Consultant

Z21

722

Z23

Design & Pricing Allowance

Escalation Allowance, 2 Yrs

**TOTAL CONSTRUCTION ESTIMATE** 

Construction Allowance

Appendix
A - Elemental Cost Summary

**Building Demolition** 



Project : Metchosin Fire Hall Report date : 21 Jul 2025

: Building Demolition

Page No. : 1

Location : Metchosin, BC **ELEMENTAL COST SUMMARY** Bldg Type : 380 Owner : District of Metchosin C.T. Index : 0.0

: Johnston Davidson Architecture GFA : 902 m2 Consultant

		Ratio	Elemen	tal Cost	Elemental	Amount	Rate pe	r m2	
Element		to GFA	Quantity	Unit rate	Sub-Total	Total	Sub-Total	Total	%
A SH	ELL		902 m2			0		0.00	0.0
B INT	TERIORS		902 m2			0		0.00	0.0
C SE	RVICES		902 m2			0		0.00	0.0
	NET BUILDING COST	Γ - EXCLU	IDING SITE		\$	0		0.00	0.0
D SIT	E & ANCILLARY WORK		902 m2			422,100		467.96	89.9
D2 AN	CILLARY WORK					422,100		467.96	89.9
D21	Demolitions/HAZMAT	1.000	902 m3	375.00	338,300		375.06		
D22	Building Footprint Restoratio	n 1.000	902 m2	93.00	83,800		92.90		
	NET BUILDING COST	T - INCLU	DING SITE		\$	422,100		467.96	89.9
Z1 GE	NERAL REQUIREMENTS & F	EE				47,500		52.66	10.1
Z11	General Requirements		8.0 %		33,800		37.47		
Z12	Fee		3.0 %		13,700		15.19		
	TOTAL CONSTRUCT	ION ESTIN	IATE - EXCLUDII	NG ALLOWANCE	s \$	469,600		520.62	100.0
Z2 ALI	LOWANCES					156,800		173.84	
Z20	Location Factor		5.0 %		23,500		26.05		
Z21	Design & Pricing Allowance		10.0 %		49,300		54.66		
Z22	Escalation Allowance, 2 Yrs		10.0 %		54,200		60.09		
Z23	Construction Allowance		5.0 %		29,800		33.04		
	TOTAL CONSTRUCT	ION ESTIN	MATE - INCLUDIN	IG ALLOWANCES	s \$	626,400		694.46	
	TOTAL CONSTRUCT	ION ESTIM	MATE	·	\$	626,400	\$	694.46	



Appendix B – Basis and Assumptions for Class D Estimate



# BASIS OF CONSTRUCTION BUDGET

#### A - SHELL

# A1 – SUB STRUCTURE

### A11 – Foundation

- Conventional strip and pad footings design and meet post disaster standards
- Waterproofing membrane, drainage mat and cement parging to the exterior face of the perimeter foundation wall
- Perimeter weeping tile, precast sump pit and connection to existing sewer system

# A13 - Special Conditions

- Allowed dewatering during construction and ESC
- Geotechnical consideration (excluded)

### A2 - STRUCTURE

- GLULAM post and beam c/w metal rood decking meet post disaster standards a 1.5 importance factor which primarily applies to the structure (R1 asembly)
- Conventional wood stud framing to partition and exterior envelope
- Wood frame construction to 2<sup>nd</sup> floor and mezzanine (F2A floor assembly)

#### A3 - Exterior Enclosure

- Metal cladding exterior walls, WT-1B assembly wood stud exterior wall, with cavity-filled batt insulation & vapour barrier, structural sheathing, vapour permeable barrier, strapping/air space
- Standing seam metal roof cladding c/w back-up roof system, R1 assembly
- Aluminum framed curtain walls at the main entrance, aluminum frame windows and entrances.
- Allowed automatic door operator to main entrances
- Insulated hollow metal doors to entrances and apparatus bay overhead doors
- Perimeter roof parapet and roof overhang/canopy to main entrances

# **B-INTERIORS**

# **B1 – Partition and Doors**

- Interior partitions are anticipated to be convectional 2x6 wood framed walls, with acoustic batt in cavities where required.
- All drywall to be 5/8" type 'x' grade
- All interior doors to be hollow metal doors/solid core doors with standard door frame and hardware
- Allowed automatic door operator to vestibule entrance

#### **B2 - Finishes**

- Standard floor finishes similar Fire Hall Station. Allowed ceramic floor tiles to washrooms and wet areas.
- Standard ceiling finishes similar Fire Hall Station. Paint to underside of structure to Apparatus Bay and service rooms.



# **B3** – Fittings and Equipment

- Millwork to Admin, Operation and Quarters
- Washroom / Shower / Janitor accessories
- Specialties (gear lockers, storage lockers, entrance floor grille, etc)
- Interior / Building exterior signage
- Furnishing (window & CW blinds)
- Miscellaneous metals (millwork supports, guard rails, ladder, etc.)
- Kitchen and Laundry appliances
- Exercise/Gym equipment
- Decontamination equipment (gear washer/dryer, portable decontamination system, hazmat decon shower & boots and SCBA decon washer)
- Other loose furniture, fixture and equipment (FF&E) excluded.

# **C – BUILDING SERVICES**

# C1 - Mechanical

- Domestic, sanitary and storm drainage piping c/w plumbing fixtures
- Wet sprinkler system to building
- Pre-action sprinkler system to communication and radio rooms
- HVAC system (heating, cooling and ventilation), HRV and VRF systems and electric heating c/w digital controls
- Nederman vehicle exhaust extraction system to Apparatus Bay

#### C2 - Electrical

Service distribution c/w main breaker, feeder, and grounding.

- Allowed back-up power system (Battery or Generator)
- LED lighting, exit emergency lighting, power outlets, direct electrical and mechanical motor connections.
- Fire alarm system, I/T communication system and security CCTV system
- Fire station alerting system c/w tower antenna, fibre optic cabling, paging system, network infrastructure, etc
- PV solar system (excluded)



# **D - SITE WORK**

# **D11 – Site Development**

- Site preparation (clearing, grubbing and stripping)
- Asphalt pavement to driveway and parking area.
- Concrete pavement to entrance/rear approach to Apparatus Bay
- Service genset equipment pad
- Minor landscaping / Irrigation system
- Site furnishing, fencing, safety bollards, garbage enclosure, etc.

#### D12 - Mechanical Site Services

- Incoming water service connection
- Sanitary service connection
- Site storm drainage services and connection to existing

# D13 - Electrical Site Services

- Incoming power and communication service connections.
- Site lighting and power outlets
- Electric vehicle EV charging station, allowed 2 no.
- Electrical infrastructure for Genset and connections.
- Genset Equipment (Excluded)

# **D2 – ANCILLARY BUILDING**

# D20 - Hose Tower

- 5 level of concrete frame hose tower
- Design as per Salt Spring Island Firehall No. 1 Hose Tower design

# SEPARATE PRICING

- 1. Temporary Facility (refer to project requirements as specified in the reference documents)
- 2. Demolition of existing buildings (2 no.) including hazmat abatement and required restoration of building footprint to receive new development.



Appendix AA - Documents and Drawings List



# **DOCUMENTS AND DRAWING LIST**

# **DOCUMENTS AND DRAWINGS**

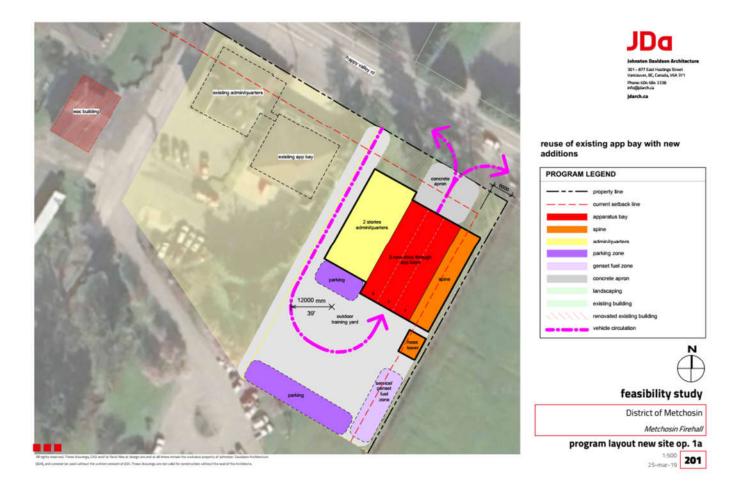
Title	Dated	Received
Building requirements / specific (via email message)	June 27, 2025	June 27, 2025
MFH preferred options	Mar 19, 2025	July 4, 2025
Architectural Assemblies	July 2025	July 7, 2025
Architectural Hose Tower	July 2025	July 7, 2025
Metchosin Fire Hall – Program R	July 2025	July 7, 2025
MFH existing drawings (Apparatus Bay)	Feb 06, 2025	July 7, 2025
MFH existing facility & gap study	Jan 23, 2025	July 7, 2025
MFH existing Fire Hall	July 22, 2025	July 7, 2025
Metchosin Temp. Facility Requirements	July 10, 2025	July 10, 2025



Appendix AB - Representative Drawings



# **PROGRAM LAYOUT**



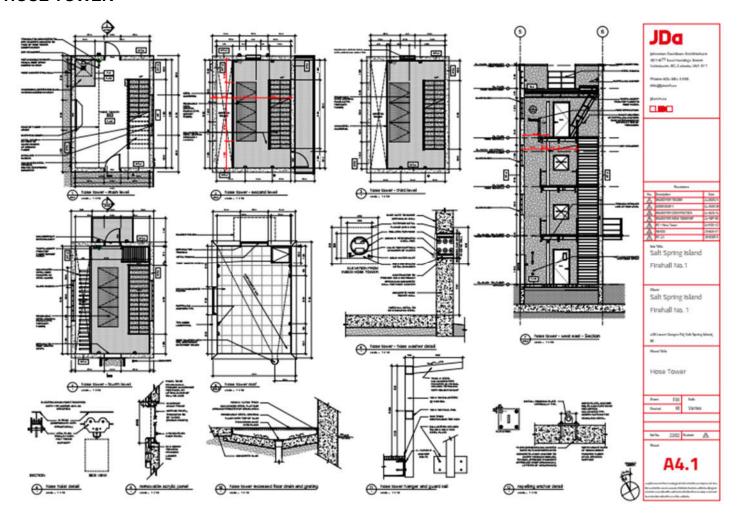
# **SPACE PROGRAMS**

me	tchosin firehall								R1
Spac	e Program			Existing Firehall	Existing Firehall	Proposed Program	Proposed Program		
		OFF		AREA	NET AREA	NET AREA			
HER	Areas		wse	9	SM	9	SM	Spatial Comments	Functional Comments
	PUBLIC AREAS							Not much of defined entry currently - location has	
	Frant entry			0.00	0.00	215.20	20.00	inherent conflicts with fire department vehicle response.	
P-2	Weather Vestitule Public Accessible Weathpoon			0.00	0.00	215.20 107.60	10.00	Accessible weeknoom	Berfisse for energy efficiency.
	Community meeting room			0.00	0.00	322.80	30.00	Accessed directly from the entry and possibly in front of the secure point.	16 pumple
									To pade
	Sub Total	0	0	0.00	0.00	688.64	54,90		
E-1	Radio Room / Office			0.00		107.60			
E-1	ESS Director Office Radio Room Equip/Storage			0.00	0.00 0.00	107.60	10.00		
	Sub Total	0	0	0.00	0.00	322.80	30.00		
	FM - ADMIN							1	
A-2	Fire Chief Office Officer's Office			274.38 109.75	25.50 10.20		18.00	Desk space plus meeting table.	
	Obrary	$\vdash$	Н	130.80	12.90	0.00	0.00		Deputy Chief, FPO, Training Officer, Captain/Shift
A-G	Mac, Office Administrator Assist, Front Deak			0.00	0.00	161,40 294,44	15.00		Officer
A-7	Washrooms			27.98	2.60	32.28	3.00	Washrooms a single occupant without showers. NEW: as rolled above.	Gender reutral weekrooms. Numbers are estimated but will need to be reviewed with BCSC review.
A-8	Washroom	Н		0.00	0.00	32.28	3.00		"Computer Room" se noted on Finshall needs review.
A-0	General Admin Office Space			0.00	0.00	150.64	14.00	4 Workstellone for crew - 38ef per person. ( 6 x 6 stellon)	Ounsil purpose with admin assistant/front desk - could have counter to lobby.
A-10 A-11	General Admin Office Space Office Supplies / Copy Room If the Storage Room			0.00	0.00	64.56 86.00	6.00 8.00		Could combine with Office Supplies / Copy
	Sub Total		0	550.91	51.20	1,054.48	98.00		
			Ė	232.21			74.10		
	FH - OPERATIONAL AREAS	-			-				
0-1	Apperatus Bays			3,077.36	286,00	6.00	5.00	NEW: Inakte dimensions shown. Narrower bays are to designate inside bays. Based on overall stre of 21.5m. wide X 27.5m long inside dear.	
0-2	2 tandem drive through bays @ 5.6 (18.4) W x 25m(85.3) L = 313.6am			0.00	0.00	3,133.31	291,20		
0-3	(18.4') W s 26m(65.3') L = 313.6em 1 tandem drive though bays @ 5.2 (17.1')er x 26m (85.3') L = 291.2em			0.00	0.00	1,454.75	135.20		
	SCBA Room			0.00	0.00	161.40	15.00	NEW: this apace is allocated to SCSA repair and filling only – Filling Station to be accommoduled. Washbown and Drying is accounted for in the spaces as noted before.	
			- 1	0.00		2442	-	Compressor Room to be separate from SCBA Room to manage the noise.	This room should be within reasonable access to the enterior for outside air and close to the SCSA Room.
0-6	Compressor Room			0.00	9.00	197,80	10.00		The room can accommodate geer washer, geer dryer, washdown counter, and SCSA Ultrasoric dearing
04	Decoriti selsdown	_		0.00	0.00	215,20	20.00	Common weakdown area for cleaning of SCBA equipment, galar and uniforms when conteminated.	washitown counter, and SCSA Ultrasprác deaning equipment.  Discuss location and purpose of the rip and run room to limit trust time and proper flow. Alternately is there
0-7	Rip and Run Area			0.00	0.00	107.60	10.00		to limit travel time and proper flow. Alternately is there depatch at this location?
	General Storage  Gener Storage Room (40 units)			0.00	0.00	107,60	10.00	48 gear lockers + 5, 34" a 30", Locker apacing counted 1.5 am per locker to accommodate chroatelon, (1.2em per 25" wide locker)	In it required to allow for enough room for Turnouts plus the Wildfamtshnecus bags as well? - Note that Ready Rock has man, 24" width and Gear Grid has man 35" width.
0.12	Decon Washroom	Г		0.00	0.00	322.80	70.00	Wastroom with shower on the dirty side of the half 4	
	Utility / Janitor's Room (drly)			0.00	0.00	80.70	20.00	Separate workshop so we do not mix dean and dirty	Mop stroage and drip drain. If additional space is needed the open mezzanine may
	Workshop Flat Aid Storage	_		602.56	56.00	215.20	30.00	with SCBA.	te available
						51.80		Separate dedicated storage room/closer.	racks (Ex3' - 3 total) to be stored at hase of hose
O-17	Hose Tower ( footprint) Secure Strape			120.51	11,30	355.08 107.60	33.00 10.00	Hose Drying + Training Tower. Restricted access	DAY.
0-28	Maccanina Storage			0.00	0.00	161,40	15.00	To Se Celemined.	
0-22	Gear DryfWash Room			0.00	0.00	269.00	25.00	Gear Dryer(s) Gear Washer	
O-24	Hashilat Geor			0.00	0.00	215.20	20.00	FD confirmed that space is required.	yes for storage of Hacmat equipment and training suites Storad in Turnout gear room as long as enough space.
0-25	Second Set of Geer + Wildland / Rope Reacue Storage			0.00	0.00	0.00	9,00	24"x 32" gear storage tockers. Each locker stores 5 bags for second set of gear x 2 for circ = 7am	in each individual locker. Or separate room adjacent to for feel access - Wildfand geer accommodated with 30' geer locker.
0.0	Mose Storage			0.00	6.80	0.00	0.00	Main Picor storage (example for discussion) 12 lengths 1,371(6001) 20 lengths 2,57 (1000 ti) 13 lengths 2,57 (1000 ti) Estimate of racts only at this stage. MFD to confirm number of resets recks for emitted storage.	dient prefers for hose storage racks to be located attn base of hose laver - otherwise require 10sm.
				3,800.43	353.20	7,283.44	676.90		
				2,100.43	332.20	-,262.55	276.30		



ne	tchosin firehall			Existing	Existing	Proposed	Proposed		R
pac	e Program			Firehall	Firehall	Program	Program		
		OFF	wse	AREA	NET AREA	000	NET AREA	2 1992	B5 B5 60
ЕМ	Areas			SF	SM	SF	SM	Spatial Comments	Functional Comments
	FH - QUARTERS								
									Need to be able to accompdate all dayshift staff including non-friefighter staff., See list above. To be located on main floor and to accommisse justific
3-1	Kitchen / Diring			309,89	28.80	667.12	62,00	Seating for 10+ required, + events Accommodate 4 people + equipment,	evertalengagements. (incorporates role of existing Great, flori.
0-2	Exercise Room / Health and Wellness			677.88	63.00	645.60	60,00	Accommodate 4 people + equipment,	Includes small closel for storage.
2-3	Training Room			419.64	39.00		80.00	To seet 35 minimum in a classroom layout.	
0-4	Existing Sleeping Quarters	$\vdash$		500.34	46.50	0.00	0.00	Existing Dorms	
2-5	Domitories (Multi Bed/Lockers - 4			0.00	0.00	255.08	77.00	NEW: 4 Gender Neutral Individual Dorms each 2em which accommodate 6 - 21/2 lockers, (6 shifts of 4)	
2-3	The second second	-	-	0.00		23320		Changed to gender neutral washrooms as noted	
Q-6	Men and Women's Showers			200.14	18.60	0.00	0.00	below.	
				2.2		6277		NEW: 2 Single use, gender neutral, westrooms with	
Q-7	Washrooms (Gender Neutral)	$\vdash$	_	0.00	0.00	161,40	15.00	showers. Each washroom is at 7.5sm. To accommodate single shift of 4.	
4	Day Room	_	_		0.00	215.20	20.00	To accommodate single shift of 4. Primarily for storage of tables and chairs.	Constitution of the Consti
0-9	Training Room Storage			0.00	0.00	32.28	3.00	Printerly for storage or tables and chars.	Located directly off of training room.
								Residential washer and dryer + standing height	This is needed on the clean side of the half to help maintain lack of cross over of contaminated uniform
2.00	Utility for / Laundry			173.24	16.10	25.92	7.00	counter with storage. Room also has mop sink.	and bedding. To be located on main floor.
2-11	Great Room	-	-	932.89	86.70	0.00	0.00	countries were accregate recommend rate energy service	and seconds, he se occase on mannings.
3-12	Society.	-	-	570.28	53.00	0.00	0.00		
	and the same of th	-				-			
	Sub Total		0	3,784.29	251,70	3,012.80	280.00		
	CIRCULATION								
	Stair #1			107.60	10.00		30.00		
C-2	Star #2			0.00	0.00	322,80	30.00		
	Stair #3 - Storage Stair (Apparatus Bay						1000		
C-3	Mezzanine)	$\vdash$	_	81.16	7.54	59.18	5.50	o mezzarine	
C-4	Conidor (Main Floor) Conidors (Second Floor)	-	-	131.27	12.20	0.00	0.00	Included in Mark-Up Included in Mark-Upm (current is included in 500ef)	
C-S	conto's (secon reas)	-		9.00	0.00	9.00	0.00	reases in manacipin (comes a reases or seces)	
-	Sub Total			320.03	29,74	704.78	65.50		
_	Sub ruta	•		224.02	22,74	194.74	43.30		
- 4	SERVICE SPACES		-				1		
2.00	Mechanical Room	-	-	0.00	00.0	269.00	25.00	currently in main floor janitors room	
	Eledrical Room	-	-	0.00	0.00	161.40		currently panels on wall in chief's office	
	Storage Closet (Second Floor)	-	-	0.00	0.00		7.00		
	Janttor room (Main Floor)	-	-	27.98	2.60		5.00	<del> </del>	
123	Jeritor room (Second Floor)	-	-	0.00	0.00	53.80	5.00	-	
34	Storage Closet (Main Floor)	-	_	95.84	3.00	86.08	8.00		
	Com Room ( Services Demark)			0.00	0.00	75,32	7,00		
				0.00	0.00	75.32	7.00		
	Water Entry Room	$\vdash$	-	2.00	0.20	13.32	- 20	Data Clearl for FH does not include server room	l
55-0	IT / Data Closet			0.00	0.00	21.52	2.00	Andiers.	
	Backup Server Room	$\vdash$		0.00	0.00	0.00	0.00		
								<b>I</b>	
	Sub Total			124.82	11.60	871.56	81.00		
_		Ť	<u> </u>		1,24				
	Building Total ( Pre Mark-up) am			8,580.40	797,44	13,938.50	1,295.40		
	Mark-up 25%			1,716.10	159.49	2,787.70	321.98		
	Mark-up 10% (Apparatus Bays)			429.02	28.60	0.00	0.00		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
	TOTAL FIREHALL			10,725.61	985.53	16,726.28	1,617.38		
						1000000			lii
	black text				rogram Requ	irements - Ite	ma thut are crit	ical to the aucomatul delivery and operation of the new	
		_		Fire Hall, The	Project will no	of the successful	d without these	Berns.	
	red text							FP but are deemed necessary as part of the client	
_	blue text	$\vdash$		To Be discu	r to meet the o	peratorial rec	are hut not een	ential. These items do not have areas noted yet in	
	DECK SOLD			scrope but or	a for discussion	n .		tant and added or adjusted as needed to meet FD	I

# **HOSE TOWER**

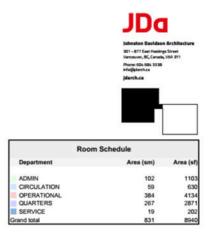


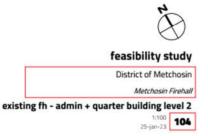


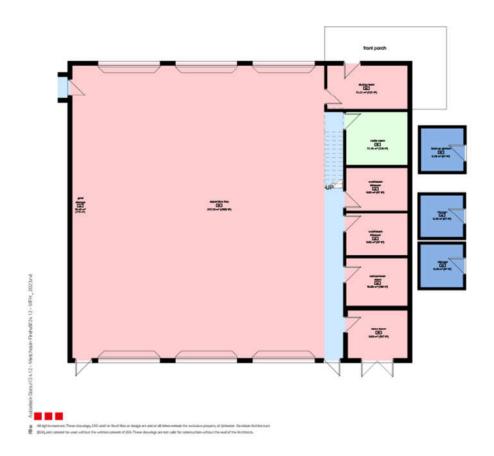
# **EXISTING BUILDINGS**

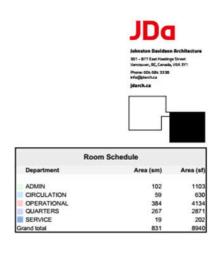














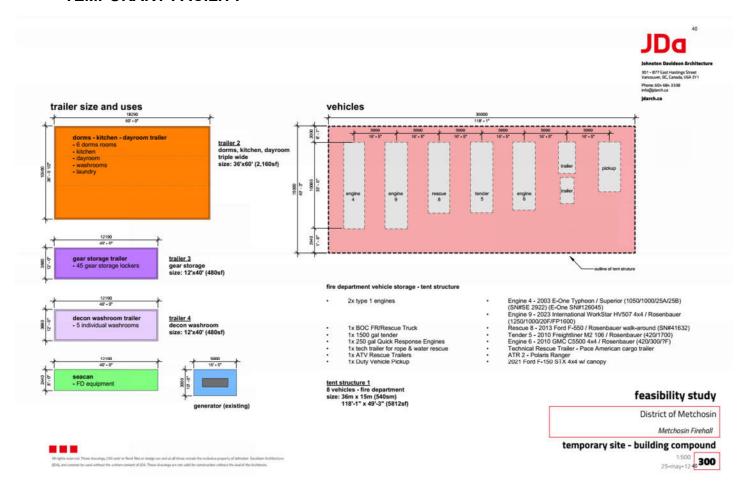
# feasibility study

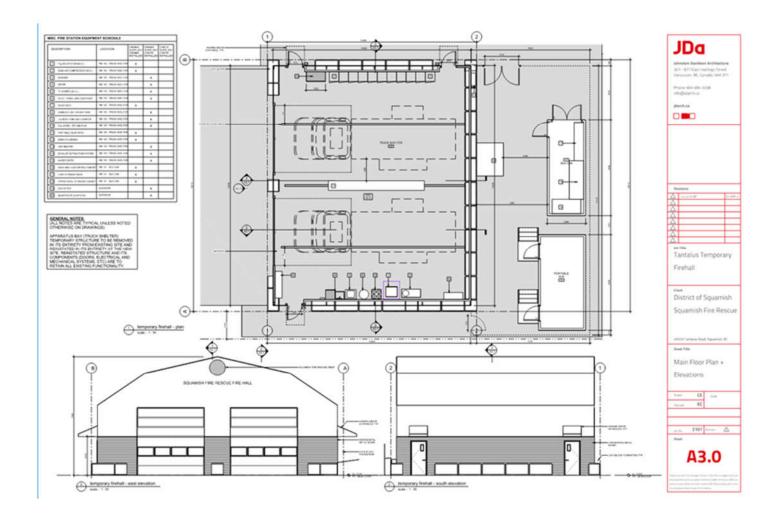
District of Metchosin

existing fh - app bay

1:100 25-jan-23 **105** 

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