

REQUEST FOR PROPOSAL 19-37 SPORTSPLEX RENOVATIONS CONSULTING SERVICES

April 23rd, 2019

The City of Campbell River is seeking the services of a qualified Architectural Consulting firm to assist with major renovations to the Campbell River Sportsplex.

This RFP is available by downloading it from BC Bid or the City's website at: http://www.campbellriver.ca/business-economy/do-business-with-the-city/bidopportunities

This is not a tender. This is a non-binding Request For Proposals. The City reserves the absolute right to negotiate with one or more Proponents as it sees fit. Nothing in this RFP shall obligate the City to enter into a contract with any person.

This RFP is scheduled to close at:

RFP Closing Time: 3:00 p.m. local time

RFP Closing Date: Thursday May 16th, 2019

Delivered to: City of Campbell River City Hall

301 St. Ann's Road 1st Floor Reception Desk Campbell River, BC V9W 4C7

ATTN: Daniel Xu

RFP Enquiries: Daniel Xu, CPPB, CSCP

Senior Buyer

Telephone: 250.286.5788 purchasing@campbellriver.ca



REQUEST FOR PROPOSAL 19-37 SPORTSPLEX RENOVATIONS CONSULTING SERVICES

RECEIPT CONFIRMATION FORM

As receipt of this document, <u>and</u> to directly receive any further information, addendums, etc. regarding this competition, please return this form to:

Email: purchasing@campbellriver.ca

Fax: 250.286.5763

Company Name:		
City:		
	Postal/Zip Code:	
Telephone No:	Fax No:	
Contact Person:		
Title:		
Email:		

1.0 <u>Submission Requirements</u>

1.1 Proposals may be submitted via email <u>or</u> in a sealed envelope and addressed to:

City of Campbell River 301 St. Ann's Road 1st Floor Reception Desk Campbell River, BC V9W 4C7

ATTN: Daniel Xu – Senior Buyer

Ensure that the RFP name, number, company name, and return address is labelled on the outside envelope.

- 1.2 Proposals should be received by **3:00 p.m., Thursday May 16th, 2019.** Proposals will NOT be opened in public.
- 1.3 Proposals received and not conforming to Item 1.2, above, may at the City's discretion, be returned (unopened) to the *Proponent*(s) without consideration.
- 1.4 Proposals submitted via email are to be sent to purchasing@campbellriver.ca
 Ensure to state the RFP name, number, and "Submission" in the Subject Line. Email submissions should be consolidated into one (1) Adobe .PDF virus free file and no larger than 10MB's.
- 1.5 Proposals submitted to City Hall should include one (1) copy preferably in a bound 8½-inch x 11-inch format along with one (1) identical copy on a virus free data storage device (i.e. USB flash drive) in Adobe PDF format. No three-ring binders.
- 1.6 Proponents assume the entire risk when submitting a Proposal via email. The City will not be liable for any delay or rejection for any reason, including but not limited to, technological delays or issues caused by any network or email program, rejected as suspected spam, virus, malware, or email not identified in the Subject Line as a submission and being missed. The City will not be liable for any damages associated with Proposals not being received or being missed.
- 1.7 *Proponents* may choose to provide a completed Receipt Confirmation Form to the Senior Buyer, if they wish to receive any further information, addendums, etc. regarding this Request For Proposal.
- 1.8 *Proponents* are solely responsible for any costs or expenses related to the preparation, submission, and presentation of proposals.
- 1.9 After the closing time and date, all documents received by the *City* become the property of the *City*. The successful *Proponent* will be required to assign any copyright to the *City*. The *City* will have the exclusive rights to copy, edit and publish the material.

CITY OF CAMPBELL RIVER REQUEST FOR PROPOSAL 19-37 SPORTSPLEX RENOVATIONS CONSULTING SERVICES INSTRUCTIONS TO PROPONENTS

- 1.10 This proposal is subject to the terms and conditions of the Canadian Free Trade Agreement (CFTA), Mash Annex 502.4 and the New West Partnership Trade Agreement (NWPTA) between the provinces of B.C, Alberta, Saskatchewan, and Manitoba.
- 1.11 The awarding of a contract as a result of this Request for Proposal will not permit the successful *Proponent* to advertise the relationship with the *City* without the *City*'s prior authorization.
- 1.12 Under no circumstances may the *Work* or any part thereof be subcontracted, transferred, or assigned to another firm, person, or company without the prior written authorization of the *City*.
- 1.13 If any director, officer or employee agent or other representative of a *Proponent* makes any representation or solicitation to any Councillor, officer or employee of the *City* of Campbell River with respect to the Proposal, whether before or after the submission of the Proposal, the *City* shall be entitled to reject or not accept the Proposal.

2.0 <u>Definitions</u>

- 2.1 "City" means The City of Campbell River.
- 2.2 "Consultant" means the successful "Proponent".
- 2.3 "Proponent" means the entity submitting a proposal.
- 2.4 "Work" means and includes anything and everything required to be done for the fulfilment and completion of this agreement.

3.0 Proposal Format

Proposals, rather than tenders, have been requested in order to afford *Proponents* a more flexible opportunity to employ their expertise and innovation, and thereby satisfy the *City's* needs in a more cost-effective manner. Proposals should be based on these Instructions and any Appendices issued.

Cross-references should be included as appropriate to make reference to related relevant information. Appendices can be added for supplementary materials that include brochures, sub-consultant proposals, detailed spreadsheets, resumes and supporting information.

Submission of Proposals should be arranged using the following format style with details relevant to the project:

Letter of Introduction

A brief cover letter introducing the *Proponent's* Proposal.

Appendix 1

Include a completed Appendix 1, as attached, to clearly show the company name, address, telephone number, e-mail address, and name of the primary contact person(s).

Table of Contents

Provide a table of contents for the Proposal.

Project Understanding

The *Proponent* should provide a detailed summary of their understanding of the proposed Scope of Work in their own words. Demonstrate the understanding of the key issues specific to this assignment and the Proponent's approach to addressing them.

Provide a table which expands the Scope of Work into a series of potential tasks or work activities for the tasks described.

Provide a list of personnel with their hourly rates and an approximate number of hours utilization that the *Proponent* anticipates their involvement to provide the services to address the potential tasks and work activities. The *Proponent* is expected to provide an appropriate balance and allocation of resources/hours and seniority/experience assigned for the services.

Provide a list of potential deliverables that would be provided by the *Proponent* for the Scope of Work described in the Terms of Reference.

Approach and Methodology

Proponents should provide clear and concise information on their approach and methodology on how they will work with the City to deliver the required services and arrive solutions that best meets the City's requirements.

Provide a written narrative that clearly describes the services that will be provided. Provide a written summary describing how the *Proponent's* work plan will address the potential services.

Project Delivery

The *Proponent* should provide a clear and concise description of how they intend to deliver the services in sufficient detail that reasonably demonstrates that the *Proponent* understands the Scope of Work and how they intend to implement and execute it efficiently, cost-effectively, and to the highest quality.

Proponent Team

Firm profile: Name, address, telephone number, email address of the primary contact person, number of years in business, experience in similar projects, and geographic location of lead firm.

Capability: Size of workforce, equipment and facilities available where the work will be completed and where the *Consultant's* Project Manager will be located.

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Personnel: Identify the Project Manager and other key personnel. Provide an organization chart and resumes with <u>relevant</u> information for each team member, indicate their professional qualifications/designations, role and responsibility, summary of education/qualifications and experience in relation to the project.

Describe the availability and capacity of the Project Manager and other key personnel to undertake the Project.

Provide resumes for sub-consultants indicating their knowledge, qualifications and experience and if the Proponent will be using specialty sub-consultants.

Knowledge: Demonstrate knowledge of providing the services for local governments, in particular working with municipalities.

Experience: Provide a description of completed projects and past work history and demonstrate relevance to the Scope of Work described in the Terms of Reference. Describe how the Project Manager and other key personnel have been involved with similar projects.

References

Identify other projects for which your company has provided similar services. Provide references stating organization name, contact name, e-mail, phone number, and fax number to support this.

Proposed Budget

Proponents should also provide a high level budget and implementation plan detailing hourly utilization, plan tactics based on the Terms of Reference including any production costs or other expenses for the first year of the contract.

This budget should include hourly rates of all team members and an estimated allocation of hours between team members.

All prices proposed should be in Canadian (CAD) dollars and include all duties and taxes, <u>including provincial sales taxes</u>, with the exception of GST, which shall be shown separately.

4.0 Confidentiality and Freedom of Information

4.1 Your proposal should clearly identify any information that is considered to be of a confidential or proprietary nature (the "Confidential Information"). However, the

City is subject to the provisions of the Freedom of Information and Protection of Privacy Act. As a result, while Section 21 of the Act does offer some protection for third party business interests, the City cannot guarantee that any Confidential Information provided to the City will remain confidential if a request for access in respect of your proposal is made under the Freedom of Information and Protection of Privacy Act.

5.0 Pricing

- 5.1 The items listed in the Terms of Reference are minimum features to be provided. *Proponents* may also provide separate pricing on additional elements they feel would benefit the *City* in meeting its goal.
- 5.2 All invoices paid as a result of this Request for Proposal will be paid as per the *City's* standard payment terms "current month's invoices will be paid net 30 days".

6.0 Cancellation

- 6.1 The *City* reserves the right to cancel this Request for Proposal at any time and for any reason, and will not be responsible for any loss, damage, cost or expense incurred or suffered by any *Proponent* as a result of that cancellation.
- 6.2 The *City* reserves the right to terminate the Contract, at its sole and absolute discretion, on giving 30 days written notice to the *Consultant* of such termination and the *Consultant* will have no rights or claims against the *City* with respect to such termination. Cancellation would not, in any manner whatsoever, limit the *City's* right to bring action against the *Consultant* for damages for breach of contract.

7.0 Accuracy of Information

7.1 The *City* makes no representation or warranty; either expressed or implied, with respect to the accuracy or completeness of any information contained or referred to in this RFP.

8.0 Responsibility of Proponent

- 8.1 Each *Proponent* is responsible for informing themselves as to the contents and requirements of this RFP. Each *Proponent* is solely responsible to ensure that they have obtained and considered all information necessary to understand the requirements of the RFP and to prepare and submit their proposal. The *City* will not be responsible for any loss, damage or expense incurred by a *Proponent* as a result of any inaccuracy or incompleteness in this RFP, or as a result of any misunderstanding or misinterpretation of the terms of this RFP on the part of any *Proponent*.
- 8.2 The *City* of Campbell River may at any time prior to the closing date and time issue additional information, clarifications, or modifications to the RFP by written
 - addenda via the *City* of Campbell River website. Information provided in the addenda shall supersede all previous information provided.
- 8.3 The *City* of Campbell River will endeavour to notify all *Proponents* of any such addenda as may be issued but it is the *Proponent's* sole responsibility to ensure they have reviewed the *City's* website for any addenda issued. By submitting a

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Proposal the *Proponent* is deemed to have accepted and to abide by all addenda issued.

- 8.4 If a *Proponent* is in doubt as to the true meaning of any part of this Request for Proposal, or finds omissions, discrepancies or ambiguities, a request for interpretation or correction should be submitted to the Senior Buyer, in writing.
- 8.5 Only the written Request for Proposal and any addenda issued by the Senior Buyer should be relied upon by *Proponents* when preparing and submitting their proposals.
- 8.6 By submitting a proposal, the *Proponent* represents that it has the expertise, qualifications, resources, and relevant experience to perform the *Work*.
- 8.7 *Proponents* should not rely on any dimensions or scales shown on any attached drawings. *Proponents* are responsible for all measurements and to examine the place of work prior to submission. By submitting a Proposal the *Proponent* represent that they have examined the place of work, or specifically elected not to.

9.0 Enquiries

- 9.1 All questions and enquiries should be submitted in writing no later than three (3) working days prior to the closing date of the RFP.
- 9.2 Any questions regarding this competition and the submission of proposals should be directed to *Daniel Xu, CPPB, CSCP, Senior Buyer* at 250.286.5788 or purchasing@campbellriver.ca

10.0 References

10.1 The *City* shall have the right, but not the obligation, to contact any references.

11.0 Indemnification

- 11.1 The *Consultant* hereby releases and shall indemnify and save harmless the *City*, its officers, employees, officials, agents, advisors and representatives from and against any and all claims, costs, damages, actions, causes of action, losses, demands, payments, suits and expenses, legal fees or liability arising from:
 - errors, omissions or negligent acts of the *Consultant*, its officers, agents, members, employees, advisors or subcontractors, or any other person for whom the *Consultant* is in law responsible in the performances of the Services;
 - b. the breach, violation or non-performance of this Agreement by the *Consultant*, its officers, agents, members, employees, advisors or subcontractors, or any other person for whom the *Consultant* is in law

responsible in the performance of the Services;

- c. personal injury including death, property damage and loss arising out of, suffered or experienced by any person in connection with or during the provision of the Services under this Agreement, including without limitation WorkSafeBC claims and assessments.
- 11.2 The release and indemnity contained in section 11.1 shall apply except to the extent that the claims, costs, damages, actions, causes of action, losses, demands, payments, suits, expenses or legal fees or liability arise from the negligence of the *City*, its officers, employees, officials, agents, advisors, or representatives.
- 11.3 The *Consultant* is solely responsible for and shall promptly pay all WorkSafeBC premiums and assessments relating to the performance of the Services under this Agreement, whether by the *Consultant*, its officers, agents, members, employees, advisors or subcontractors, or any other person for whom the *Consultant* is in law responsible.
- 11.4 The release and indemnity contained in section 11.1 shall survive the termination of this Agreement.

12.0 <u>Insurance, Licenses, and Permits</u>

- 12.1 The *Consultant* must submit to the *City*, upon acceptance of its proposal, the following:
 - a. Comprehensive General Liability Insurance in an amount not less than \$2,000,000 with a provision naming the *City* as an additional insured and a Cross Liability clause;
 - b. A provision requiring the Insurer to give the *City* a minimum of 30 days' notice of cancellation or lapsing or any material change in the insurance policy;
 - c. Professional Liability Errors and Omissions Insurance in the amount of not less than \$500,000 per occurrence and a minimum of \$2,000,000 aggregate for all claims:
 - d. A copy of your current Certificate of Clearance from WorkSafe BC;
 - e. A signed City of Campbell River Safety Covenant.
- 12.2 The *Consultant* shall provide and pay for all necessary insurances, licenses, permits, and approvals from authorities having jurisdiction required for the performance of the *Work* and is responsible for any deductible amounts under the policies.
- 12.3 All insurances, licenses, and permits must remain valid for the term of the *Work*.

13.0 Declarations

13.1 In submitting a proposal the *Proponent* declares that:

- I (we) do not (or any related company) have any family, ownership, and
 operating relationships with the City, or any elected official, staff or other
 officials holding public office in the City and agree that the City reserves the
 right to reject any proposal that may be perceived to be in a conflict of inter
- I (we) am (are) not or have not:
- a. an individual who has; or
- b. an individual who was a shareholder or officer of a company that has; or
- c. a company that has; or
- d. a company with a shareholder or officer who has; or
- e. a company that is, or was a shareholder of a company that is, or was a shareholder of a company that has; or
- f. a company that has a shareholder or officer who is also a shareholder or officer of another company that has;
- g. had a bid bond retained, or
- h. had all or part of a performance bond retained, or breached a contract with the *City*, or failed to complete its obligations under any prior contract with the *City* (or any other publicly funded jurisdiction or organization in British Columbia), or has been charged or convicted of an offence in respect of a *City* (or any other publicly funded jurisdiction or organization in British Columbia) contract.

14.0 Timing

14.1 Time is of the essence in carrying out the *Work*. The *Consultant* must commence the Services in a timely manner and carry out the Services in accordance with the completion dates set out in the work plan, or as mutually amended in writing by the *Consultant* and the *City* from time to time.

15.0 Regulations of Authorities Having Jurisdiction

- 15.1 All *Work* provided must be in accordance with all laws and regulations pertaining to the *Work*. The laws of the Province of B.C. shall govern this proposal and any subsequent Agreement resulting from this proposal.
- 15.2 The *Consultant* will be required to enter into an Agreement with the *City*, refer to the attached Draft Agreement.

16.0 Acceptance

16.1 The City will be entitled to conduct such acceptance tests as it considers necessary to verify that the product and service (the Work) meets the Specifications. If the product and service meets the Specifications after acceptance testing, the City will accept it in writing. If the product and service does not meet the Specifications the City may: reject the Work, or accept the Work. The City will not reject the product and service without first notifying the Consultant and giving the Consultant a reasonable opportunity to correct any failure of the equipment to meet the Specifications. If the product and service

meets the Specifications except that some items of product and service have not yet been delivered, the *City* may accept the product and service but withhold that portion of the purchase price attributable to the product and service not yet delivered.

17.0 Resolution of Disputes

- 17.1 If requested in writing by either the *City* or the *Consultant*, the *City* and the *Consultant* shall attempt to resolve any dispute between them arising out of or in connection with this agreement by first entering into structured non-binding negotiations with the assistance of a mediator on a without prejudice basis. The mediator shall be appointed by agreement of the parties. If a dispute cannot be settled within a period of thirty (30) calendar days with the mediator, if mutually agreed, the dispute shall be referred to the arbitration of a single arbitrator, or to three arbitrators failing such an agreement, in which case each party shall appoint one arbitrator, and the first two named shall choose the third arbitrator. Any arbitration shall be conducted in accordance with the Commercial Arbitration Act (British Columbia). The award and determination shall be binding upon the parties hereto and their successors and assigns.
- 17.2 The cost of arbitration will be borne equally by the parties.

18.0 Evaluation Criteria & Process

- 18.1 An evaluation committee made up of *City* staff and its advisors will be reviewing proposal submissions. The evaluation criteria will be applied to all submissions fairly and without bias to any *Proponent* or proposal and the same criteria and weightings will be applied to all submissions.
- 18.2 No assumptions should be made that information regarding the *Proponent* or its participants, their experience, expertise and performance on other projects is known, other than the documentation and responses submitted by the *Proponent*.
- 18.3 The *City* reserves the right to conduct pre-selection meetings with *Proponents*. *Proponents* may be requested, as part of the evaluation process, to provide a presentation, which may include a demonstration of their products.
- 18.4 The *City* reserves the right to conduct pre-selection meetings in order to correct, change or adapt the selected proposal to the wishes of the selection committee.
- 18.5 Award of any contract resulting from this RFP may be subject to available funding, City of Campbell River Council approval, and other budget considerations.
- 18.6 The *City* is entitled to accept for consideration any or none of the proposals submitted and will evaluate proposals based on the "best value" and not necessarily the lowest cost. The following are some of the key considerations that the *City* expects to take into account to determine best value:

	Description	Weight
1	Experience – Demonstrated previous related experience, project planning, company & personnel qualifications, references, etc.	20%
2	Methodology – Design, approach, timing and schedule, initiative and innovation, demonstrated understanding of project requirements, assignment of resources, reporting, controls, response times, etc.	50%
3	Proposal – Completeness, overall quality and level of details submitted, concise, etc.	10%
4	Budget – Rate structure, estimated total costs, etc.	20%

19.0 Negotiation of Contract and Award

- 19.1 If the *City* selects a preferred *Proponent*, then the *City* will enter into discussions with that preferred *Proponent* to clarify any outstanding issues and attempt to finalize the terms of the contract, including financial terms. If discussions are successful the *City* and the preferred *Proponent* will finalize a contract.
- 19.2 If at any time the *City* reasonably forms the opinion that a mutually acceptable agreement is not likely to be reached within a reasonable time frame the *City* may terminate discussions in which event the *City* may either open discussions with another *Proponent* or terminate this RFP and retain or obtain the services in some other manner.
- 19.3 The *City* further reserves the right to conduct post-award meetings in order to correct, change, or adapt the selected submission to the wishes of the *City*.

A. BACKGROUND

The City of Campbell River is seeking the services of a qualified Architectural Consulting firm to assist with major renovations to the Campbell River Sportsplex. These works are generally described as the requirement to address existing building envelope issues, refreshing the majority of existing rooftop HVAC equipment and completion of an eleven hundred square foot building addition.

The Campbell River Sportsplex is a pre-engineered, multi use facility located in the Willow Point area of Campbell River which includes racquetball and squash courts, a weight room, two gymnasiums, activity rooms, kitchen, office space and related change and washroom facilities. The building also supports all of the outdoor sports fields and other activity spaces at the Willow Point Park. The building was constructed in 1993 and has now reached the end of service life for several key building envelope systems and the majority of the existing rooftop mechanical equipment and due to the increased demand on all of the programmable spaces, is in significant need of additional storage space.

The City has completed a number of conditions assessments on the building and is now in the position to proceed with the most urgent items that have been identified. These improvements will include:

- 1. Complete replacement of the existing metal roof with a new roofing system
- 2. Inspection, assessment and rehabilitation of the exterior wall assembly where required
- 3. Assessment of building mechanical load and confirmation of appropriate equipment sizing
- 4. Inspection and rehabilitation and/or replacement of up to nine (9) rooftop HVAC units and twelve (12) rooftop exhaust fans
- 5. Addition of 1,100 sf of storage space

The community demand for access to the facilities at the Sportsplex requires that the facility remain open 7 days a week which will need to be considered when assessing the impacts of any required works.

B. SCOPE

Acting as the lead consultant it is expected that the successful proponent will as a minimum:

- Meet with City project team to confirm scope, approach, deliverables and all related timing
- 2. Review existing reports, drawings, specifications and related materials
- 3. Review Facility Operational Schedule with Facility Operators and identify requirements, impacts and potential limitations on construction activities.
- Review the recommendations made in the attached RDH Building Science Building Enclosure Condition Assessment (BECA) Report, April 4, 2019.
- 5. Review the site and confirm existing conditions against BECA recommendations
- 6. Complete a mechanical system evaluation to confirm system loads and equipment sizing are correct based on current occupancy and usage.

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- 7. Based on the above, prepare and submit for review a Preliminary Design Report, complete with cost estimate as per City Policy, detailing necessary work effort to:
 - a. Address all identified Building Enclosure issues
 - b. Refurbish and/or Replace existing rooftop HVAC units (9) and EFs (12)
 - c. Complete 1,100 sf addition identified as Gym Storage Expansion in the attached VDA Architecture Gym Storage Expansion conceptual design.
- 8. Upon receipt of the City's review of the Preliminary Design Report, prepare detailed drawings, specifications, construction cost estimate and a proposed methodology for completing the works which fully considers the facilities operational requirements and minimizes any potential disruptions.
- 9. Submit detailed design package for review
- 10. Develop Class A estimate as per City Policy and submit with detailed design package.
- 11. Based on the City's comments, prepare a construction tender package based on stipulated price contract form (CCDC-2)
- 12. Acting as the coordinating registered professional, prepare and submit building permit application complete with any necessary Schedules.
- 13. Assist the City during the tender process by provision of technical support
- 14. Review tender submissions and submit recommendations based on outcomes
- 15. Upon award of the construction contract, provide all necessary construction services including contract administration, site inspection and regulatory compliance
- 16. Upon completion of the works, prepare and submit all necessary record information including as-constructed drawings, O&M manuals, schedules, etc.
- 17. Provide project completion report at project close out.

C. QUALIFICATION

Proponents must have as a minimum demonstrated experience in:

- 1. Acting as lead consultant in design and renovation of similar type of assembly facilities.
- Fulfilling role of Registered Coordinating Professional as it relates to all BC Building Code requirements.
- 3. Acting as Contract Administrator for projects of similar scale and complexity.
- 4. Understanding and incorporating operational requirements in the development of a construction plan so as to minimize impacts to the facility operations.

D. ANTICIPATED TIMING:

Phase 1 – Assessment and Preliminary Design:

City Request For Proposal: April - May 2019

City Council Approval: May 27, 2019

Services Agreement Execution: June 15, 2019

Kick-Off: June 2019

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Site Inspection/Condition Assessment: July 2019

Preliminary Report Submitted: September 6, 2019

Detailed Design/Budget Submitted: October 30, 2019

City Budget deliberations: November – December 2019

Phase 2 Approval: December 2019

Phase 2 - Detailed Design and Construction:

Detailed Design: January – March 2020

Regulatory Approvals: January – May 2020

Construction Tender: April 2020

Construction: May – September 2020

Complete: October 2020

E. INFORMATION

The following information is attached just for the purpose of information:

CCR: RDH Building Envelope Condition Assessment, April 4, 2019.

CCR: VDA Architecture/ LEC Group Gym Storage Expansion description, October 24, 2016

CCR: F-CAP-X Building Condition Assessment Report, December 15, 2017.

CCR: Capital Project Management Policy

THIS AGREEMENT made th	is	day of		, 2019
Reference No.:	RFP 19-37			
Contract:	SPORTSPLEX RE	NOVATIONS CO	ONSULTING SERVICES	S
BETWEEN:				
City of Campbell River 301 St. Ann's Road Campbell River, B.C. V9W 4	C7		(the "City")	
AND:				
TBD				
			(the "Consultant")	

- A. The *City* requires the professional services of the *Consultant* and desires to engage the *Consultant* to perform the services set out in this Agreement.
- B. The *Consultant* has agreed to perform the Services in accordance with the terms and conditions of this Agreement.

In consideration of the terms, covenants and conditions of this Agreement, the *City* and the *Consultant* agree as follows:

1.0 CONSULTANT'S SERVICES TO THE CITY

- 1.1 The *Consultant* must provide and is responsible for the services outlined in the work plan submitted to the *City* by the *Consultant* in response to the Request for Proposal (the "Proposal") hereto as Schedule "A" and forming an integral part of this Agreement in the amount of \$XXXXX, excluding GST.
- 1.2 If there is any inconsistency or conflict between the provisions of the contract documents then the contract documents shall govern and take precedence in the following order with the Agreement taking precedence over all other contract documents:
 - a. The Agreement between the City and Contractor;
 - b. The Contractor's submitted proposal and pricing:
 - c. The City's Request For Proposal and all addenda's;
 - d. All other contract documents.
- 1.3 The *Consultant* may engage professional sub-consultants for the performance of specific tasks forming part of the Services, as approved in writing by the *City*. The sub-Consultants may not be replaced without the prior written consent of the *City*.

- 1.4 The *Consultant* must administer, coordinate, and manage all Services of sub-*Consultants*, and is responsible for all work performed by the sub-consultants in relation to the Services and will pay all fees and disbursements of all sub-consultants.
- 1.5 The Consultant must perform the Services:
 - a) with that degree of care, skill and diligence normally applied in the performance of services of a similar nature:
 - b) in accordance with current professional practices; and
 - c) in conformance with the latest design standards and codes applicable at the time of design.
- 1.6 The *Consultant* must furnish all personnel required to perform the Services, and all personnel must be competent and qualified to perform the Services.
- 1.7 Where specific personnel have been proposed by the *Consultant* for the performance of the Services, and have been accepted by the *City*, the personnel may not be replaced without the prior written consent of the *City*.
- 1.8 The *Consultant* must commence the Services in a reasonably timely manner and carry out the Services in accordance with the completion dates set out in the work plan, or as mutually amended in writing by the *Consultant* and the *City* from time to time.

2.0 BASIS OF PAYMENT TO THE CONSULTANT

- 2.1 In consideration of the Services performed by the *Consultant* to the satisfaction of the *City*, the *City* will pay the *Consultant* the fees and reimbursable expenses as prescribed in this agreement.
- 2.2 Payment to the *Consultant* will be based on hours worked by the employees of the *Consultant* multiplied by their hourly rates as indicated in the proposal and shall not exceed the budget without prior written authorization from the *City*.
- 2.3 The limit on the fees to be paid by the *City* to the *Consultant* does not diminish the duties and obligations of the *Consultant* to provide the Services.
- 2.4 All other expenses not listed above are considered to be included in the *Consultant's* fees.
- 2.5 The *Consultant* shall submit invoices to the *City* representative or delegate on a monthly basis.
- 2.6 On each invoice the *Consultant* shall list the names, hours worked and pay rates of all employees of the *Consultant* or sub-consultants that have worked on the Services for the phase of the work plan. Each invoice should also record the total amount of all claims to date, the value of this claim and the remaining budget to completion.

- 2.7 Attached to each invoice shall be copies of invoices for all disbursements claimed; confirmation of payments made to sub-consultants and a brief report detailing work completed to date, work completed during the period covered by the invoice and work outstanding to complete the Services.
- 2.8 If the *City* does not approve of or wishes to further review, audit or otherwise seek clarification concerning the *Consultant's* invoices, the *City* is not liable for interest charges in respect of the invoice for the period from the date the invoice is submitted until the date that the invoice is paid.
- 2.9 If the *City* approves the amount of an invoice, the *City* will cause the invoice to be paid on or before the 15th day of the month following receipt and approval of the invoice.
- 2.10 The *Consultant* must keep proper accounts and records of all costs and expenditures forming the basis of any billing to the *City*, including but not limited to hours worked, details of all disbursements and percentage amounts of work completed.
- 2.11 The *City* is entitled to verify the accuracy and validity of all billing and payments made by auditing and taking extracts from the books and records of the *Consultant*. Notwithstanding the foregoing, the *City*'s right to inspect, copy and audit shall not extend to the composition of the *Consultant*'s rates and fees, percentage mark-ups or multipliers but shall apply only to their application to the applicable units.

3.0 CHANGES TO SCOPE OF SERVICES

- 3.1 The *City* may at any time vary the scope of work to be provided by the *Consultant*.
- 3.2 If the *Consultant* considers that any request or instruction from the *City* constitutes a change in the scope of the Services, the *Consultant* must advise the *City* within ten (10) days in writing.
- 3.3 Without written advice within the time period specified, the *City* is not obligated to make any payments for additional fees to the *Consultant*.

4.0 INDEMNIFICATION

- 4.1 The *Consultant* and any sub-consultants shall at all times indemnify and save harmless the *City* and/or any of its officers or employees from and against all claims and demands, loss, costs, damages, suits, fees or other proceedings brought or prosecuted, based upon, occasioned by or attributable to the negligent acts, errors or omissions of the performance of the Services by the *Consultant*, its officers, employees, contractors or subcontractor.
- 4.2 The release and indemnity contained in section 4.1 shall apply except to the extent that the claims, costs, damages, actions, causes of action, losses, demands, payments, suits, expenses or legal fees or liability arise from the negligence of the *City*, its officers, employees, officials, agents, contractors, or representatives.

- 4.3 The *Consultant* is solely responsible for and shall promptly pay all WorkSafeBC premiums and assessments relating to the performance of the Services under this Agreement, whether by the *Consultant*, its officers, agents, members, employees, contractors or subcontractors, or any other person for whom the *Consultant* is in law responsible.
- 4.4 The release and indemnity contained in section 4.1 shall survive the termination of this Agreement.

5.0 INSURANCE, LICENSES, AND PERMITS

- 5.1 The Consultant must submit to the City, upon acceptance of its proposal the following:
 - a. Comprehensive General Liability Insurance in an amount not less than \$2,000,000 with a provision naming the City as an additional insured and a Cross Liability clause:
 - b. A provision requiring the Insurer to give the City a minimum of 30 days' notice of cancellation or lapsing or any material change in the insurance policy;
 - c. Professional Liability Errors and Omissions Insurance in the amount of not less than \$500,000 per occurrence and a minimum \$2,000,000 aggregate for all claims;
 - d. A copy of your current Certificate of Clearance from WorkSafe BC;
 - e. A signed City of Campbell River Safety Covenant.
- 5.2 The *Consultant* shall provide and pay for all necessary insurances, licenses, permits, and authorities having jurisdiction required for the performance of the *Work* and is responsible for any deductible amounts under the policies.
- 5.3 All insurances, licenses, and permits must remain valid for the term of the *Work*.

6.0 CITY APPROVALS

6.1 No reviews, approvals or inspections carried out or information supplied by the *City* or its employees derogate from the duties and obligations of the *Consultant*, with respect to the Services, and all responsibility for the Services is the *Consultant*'s.

7.0 TERMINATION

- 7.1 At any time, in its sole judgment, the *City* may terminate the services of the *Consultant* in whole or part by giving 30 days written notice to the *Consultant*.
- 7.2 If termination is not for cause, the *Consultant* shall be paid at the rate prescribed for all services properly performed to the date of the delivery of the notice according to the terms of this Agreement, plus necessary and reasonable wind up costs incurred, if any, in closing out the Services or the part terminated.
- 7.3 At any time, in its sole judgment, the *City* may instruct the *Consultant* to terminate the services of any sub-consultant appointed a role under the Services Agreement, in whole or part by giving 30 days written notice to the *Consultant*. In this case, the *Consultant* will implement a suitable replacement, to the approval of the *City*, in the same 30 days.

8.0 CONFIDENTIALITY

- 8.1 The *Consultant* acknowledges that in performing the Services required under this Agreement, it will acquire information about certain matters which is confidential to the *City*, and the information is the exclusive property of the *City*.
- 8.2 The restrictions on use and disclosure of confidential information under this Agreement shall not apply to information which (a) was in the possession of the *Consultant* before the *Consultant* was retained by the *City* to provide the services (so long as such information has not previously been designated as confidential, whether pursuant to an agreement between the *City* and the *Consultant* or otherwise); or (b) becomes publicly known other than through the *Consultant*; or (c) is disclosed pursuant to the requirements of a governmental authority or judicial order.

9.0 OWNERSHIP OF DOCUMENTS

- 9.1 All drawings, plans, models, designs, specifications, reports and other documents ("Work Product") produced by the *Consultant* and any agent, member, employee, contractor or subcontractor of the *Consultant* in connection with the provision of the Services and provided to the *City* shall become the sole property of the *City*. The *City* shall have the right to utilize the Work Product for its benefit in connection with any future repair, modification or extension of the project for which the Services were provided. The *City* shall not use the Work Product for any other purpose without the advance written consent of the *Consultant*, not to be unreasonably withheld.
- 9.2 If required by the *City*, the *Consultant* will assign any copyright of the product of the *Consultant's* Services and will obtain similar assignments from the sub-contractors.

10.0 <u>TIME</u>

10.1 Time is of the essence in carrying out the Services. The *Consultant* must commence the Services in a reasonably timely manner and carry out the Services in accordance with the completion dates set out in the work plan, or as mutually amended in writing by the *Consultant* and the *City* from time to time.

11.0 RESOLUTION OF DISPUTES

- 11.1 This Agreement shall be governed by the laws of the Province of British Columbia.
- 11.2 If requested in writing by either the *City* or the *Consultant*, the *City* and the *Consultant* shall attempt to resolve any dispute between them arising out of or in connection with this Agreement by first entering into structured non-binding negotiations with the assistance of a mediator on a without prejudice basis. The mediator shall be appointed by agreement of the parties. If a dispute cannot be settled within a period of thirty (30) calendar days with the mediator, if mutually agreed, the dispute shall be referred to the arbitration of a single arbitrator, or to three arbitrators failing such an agreement, in which case each party shall appoint one arbitrator, and the first two named shall choose the third arbitrator. Any arbitration shall be conducted in accordance with the

<u>Commercial Arbitration Act (British Columbia)</u>. The award and determination shall be binding upon the parties hereto and their successors and assigns.

11.3 The cost of arbitration will be borne equally by the parties.

12.0 NOTICES

12.1 Communications among the *City* and the *Consultant*, including all written notices required by the agreement, may be delivered by hand, e-mail, fax, or by pre-paid registered mail to the addresses as set out below:

registered m	all to the au	uresses as set our	t below.	
The City:	301 St. A Campbell V9W 4C7		Capital Works Manager campbellriver.ca	
The Consultant:	TBD			
	Attention Email:	:		
The City of Campb	ell River			
AUTHORIZED SIGN	NATORY		WITNESS	
TBD				
AUTHORIZED SIGN	NATORY		WITNESS	

SAFETY COVENANT

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(Company Name (Pr	rint legibly)	
(Address)		
(City)	(Postal Code)	
(Phone no.)	(Email)	
	Hereinafter referred to as the "Contractor"	
CITY OF CAMPBE	LL RIVER	
	(Address) (City) (Phone no.)	(City) (Postal Code) (Phone no.) (Email)

WHEREAS:

The Contractor covenants and agrees that when performing any work for the Owner in British Columbia, whether directly as a contractor or indirectly as a sub-contractor, it will adhere to all of the requirements of the Occupational Health and Safety (OHS) Regulation, B.C. Reg. 296/97, as may be amended from time to time, that are applicable to the work being performed, and as well will comply with the provisions of the *Workers Compensation Act, R.S.B.C, 1996, c.492*, as amended (the 'Act').

hereinafter called the "Owner"

The Contractor covenants and agrees that when performing any work for the Owner in which Federal occupational health and safety regulations may apply that the contractor or indirectly as a subcontractor will adhere to such regulations as administered by the Government of Canada.

Without limiting the generality of the foregoing, the Contractor agrees, with respect to any and all work performed by the Contractor in British Columbia:

- 1) Before commencing any work for the Owner, the Contractor will consult the OHS Regulation and will determine which provisions of the OHS Regulation is applicable to the work that the Contractor is to perform. The Contractor will strictly comply with all applicable OHS Regulations when performing the work.
- Before commencing any work for the Owner, the Contractor will review and familiarize itself with any existing policies or procedures developed by the Owner in relation to the work. If in the opinion of the Contractor, by following a policy or procedure that the Owner has established in relation to the work, the Contractor, or an employee of the Contractor or of the Owner, or any other worker, is put at increased risk, the Contractor must request a written change of policy or procedure from the Owner, applicable only to the work the Contractor is to perform, before proceeding with the work.

SAFETY COVENANT

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- 3) The Owner reserves the right to refuse to amend its policies or procedures in response to any such request where the Owner, after such consultation with WorkSafeBC as the Owner considers necessary, determines that the Owner's policy or procedure does not increase the risk to any worker at the location of the work to be performed, and determines that the Contractor's request is unreasonable, or is unnecessary for the protection of workers at the location of the work.
- 4) To have read every section of the OHS Regulation that pertains to the job(s) at hand, to ensure that it understands the pertinent OHS Regulation and its application to the supervisor(s) and to all of the workers at the location of the work, and to ensure that each worker under the Contractor's supervision follows the applicable OHS Regulation. To assist Contractors with this task, the City of Campbell River directs them to consult with WorkSafeBC directly, to access the WorkSafeBC Regulations and Policies available on the WorkSafeBC website.
- To understand, comply with and, to the full extent of the Contractor's lawful authority, to enforce all of the following provisions of the WorkSafeBC OHS Regulations as they pertains to the job at hand and to the workers employed by the Contractor, and to provide to the owner, at any time upon request, evidence of compliance with the following:
 - a) Rights & Responsibilities Occupational Health & Safety Program (Part 3, including;
 - i) Joint Health and Safety Committees
 - ii) Occupational First Aid
 - iii) Investigations
 - iv) Inspections
 - v) Written Instructions
 - vi) Records and Statistics
 - vii) Supervision
 - viii) Refusal of unsafe work
 - b) General Conditions (Regulation Part 4)
 - c) Chemical and Biological Substances (Regulation Part 5)
 - d) Substance Specific Requirements (Regulation Part 6)
 - i) Asbestos handling protocols (Regulation Part 6, s. 6.1 6.32)
 - e) Noise, Vibration, Radiation and Temperature (Regulation Part 7)
 - f) Personal Protective Clothing and Equipment (Regulation Part 8)
 - g) Confined Spaces (Regulation Part 9)
 - h) De-energization and Lock-out (Regulation Part 10)
 - i) Fall Protection (Regulation Part 11)
 - j) Tools, Machinery and Equipment (Regulation Part 12)
 - k) Ladders, Scaffolds and Temporary Work Platforms (Regulation Part 13)
 - I) Cranes and Hoists (Regulation Part 14)
 - m) Rigging (Regulation Part 15)
 - n) Mobile Equipment (Regulation Part 16)
 - o) Traffic Control (Regulation Part 18)
 - p) Electrical Safety (Regulation Part 19)
 - q) Construction, Excavation & Demolition (Regulation Part 20)
 - Coordination of Multiple Employer Workplaces (Regulation Part 20, s. 20.3)
 - r) Blasting operations (Regulation Part 21)
 - s) Underground Workings (Regulation Part 22)
 - t) Diving, Fishing and Other Marine Operations (Regulation Part 24)
 - u) Forestry Operations (Regulation Part 26)
 - v) Aircraft Operations (Regulation Part 29)
 - w) Firefighting (Regulation Part 31)
 - x) Evacuation and Rescue (Regulation Part 32)

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PROVISIONS OF THE *WORKERS COMPENSATION ACT* – PART 3 SPECIFIC TO CONTRACTORS ON A WORKSITE:

- i. Division 3 General duties of Employers, Workers and Others (Sections 115, 116, 117, 118, 119, 120, 121, 122, 123, 124);
- ii. Division 4;
- iii. Division 10.
- The Workers Compensation Act stipulates that the Owner (the City of Campbell River) is required to enforce any observed infraction of the Act or Regulation. The Contractor accepts that the City of Campbell River will be conducting periodic checks of the Contractor during the Contractor's work for the City of Campbell River and will be asking the Contractor to comply with the Act/Regulation in the event that any contravention is observed. If a contravention is observed and not corrected, the Contractor may be asked to leave the worksite and may result in termination of the contract for the work.
- 7) For the purposes of streamlining large construction projects and multiple employer worksites, the Owner reserves the right to designate a "prime contractor" amongst contractors who are working on a job-site together. A designated person employed by the "prime contractor" appointed by the Owner will act as the coordinator of the other contractors on that job-site and will ensure that each of the contractors on the job site are following all of the Act and WorkSafeBC Regulations as well as site-specific policies and procedures. This includes having in place an approved WorkSafeBC Health and Safety Program and a list of the qualified persons amongst the other contractors who have been designated to be responsible for each of the other contractor's site health and safety activities.
- 8) In the event that a prime contractor has been designated, it is the responsibility of the Contractor to inquire who the "prime contractor" is for the worksite and to comply with the requirements for a multiple employer worksite where a prime contractor has been designated, as set out in the preceding section.

NOTE:

- a) Payment of WorkSafeBC Assessments by any Contractor does not obviate the responsibility of the contractor to any of the foregoing.
- b) The foregoing constitutes requirements of the Prevention Division of WorkSafeBC BC for any workplace in the Province of British Columbia and constitutes the Owner's expectations of contractors.

The Contractor covenants and agrees that when performing any work for the Owner, whether directly as a contractor or indirectly as a sub-contractor, it will adhere to all of the requirements of the B.C. Employment Standards Act (RSBC 1996), as may be amended from time to time, that are applicable to the work being performed, including but not limited to:

- 1) Section 36 (2); an employer must ensure that each employee has at least 8 consecutive hours free from work between each shift worked.
- 2) Section 39; despite any provision of this Part, an employer must not require or directly or indirectly allow an employee to work excessive hours or hours detrimental to the employee's health or safety.

SAFETY COVENANT

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THIS Covenant made the	day of	, 2019, in the
City of Campbell River, in the Prov	ince of British Columbia.	
CONTRACTOR:		
Company Name		
Authorized Signatory		
(Printed Name & Title)		

APPENDIX 1

Date:		
Company Name:		
Address:		
City:		
Province/State:	Postal/Zip Code:	
Telephone No.:	Fax No:	
Primary Contact:		
Title:		
Email:		
Signature:		





BUILDING CONDITION ASSESSMENT REPORT

Building Name	Sportsplex
Address	1800 South Alder Street, Campbell River, BC.
Asset ID Number	B025
Building Size (sq. ft.)	33035
Number of Storeys	1
Date of Construction	1985

Prepared by Facility Condition Assessment Portfolio eXperts Canada Ltd.

December 15, 2017

Project No. C16004



1 ASSET EXECUTIVE SUMMARY

1.1 Facility Condition Index

Based on the findings of the BCA, the 5-Year Facility Condition Assessment is 31.88%

1.2 Asset Summary

The Sportsplex was constructed as a design-build project for the City of Campbell River in 1985 (1993) and is a pre-engineered steel framed building with total floor area of approximately 33,035 ft.². Architectural & structural drawings were not made available for a review, as such our comments are based on a limited visual review as well as experience with similar developments. It is assumed the building was designed and constructed using best practices and the Building Code at time of construction. The Kevin Klippenstein Architect Assessment Report was provided for review.

The main floor provides staff office spaces, four glass fronted racket courts, of which two are adjustable for squash and racquetball, a large gymnasium with a movable partition, and two large activity rooms, one with a movable partition. The activity rooms have access to a commercial kitchen. Currently Squash Court No. 04 is being used for exercise activities. The facility also has four large male and female changerooms with showers. Two changerooms are accessible from the exterior. There are also five regular washrooms of which two are accessible from the exterior. A dedicated handicap accessible washroom and a first aid room are provided near the staff and reception area. Gymnasium equipment, which is available for the public, is stored in a large storage room. There are four aluminum fabricated multi-level bleachers for viewing the racket courts.

1.3 A – Substructure

The building floor slab is concrete slab-on-grade. Footings and foundations could not be confirmed, however assume that the pre-engineered building tapered columns are supported on concrete drilled piers/caisson which bear on native soil.

1.4 B – Shell

The pre-engineered steel framed building system, especially when reviewed in the gymnasium, consists of tapered steel columns connected to the roof steel beams, where purlins connect the metal roof deck to the building structure. The exterior metal insulated sandwiched wall is connected to the mainframe by metal girts. At locations ribbed masonry veneer to approximately 8' above grade forms the exterior wall system.

Interior walls are framed and finished to approximately 8.0 ft. above floor and complete with a vapour barrier wall fabric over insulation for exposed walls.



Exterior fenestrations, at the building entrances are aluminum storefront systems with aluminum framed glass doors and vinyl framed windows. The roof is a low slope prefinished metal panels connected by fasteners to the steel roof purlins. Access to the facility roof is through a roof hatch in activity room.

1.5 C – Interiors

The building interior construction and finishes are general well maintained and in good condition. The interior finishes consist of vinyl floor tiles in the main floor corridors, activity rooms & service rooms, carpet in office areas, ceramic floor and wall tiles in washrooms, change rooms and kitchen, and cushioned maple sports floor assembly in the gymnasium and racquet courts. The interior wall construction and finishes consist of painted CMU's, and gypsum wall boards. The upper portion on the wall and the ceiling is exposed to the structural frame and the installation wrapped in PVC blanket. Ceramic wall tiles are used in the shower areas. Movable partitions are provided in the main lobby, activity rooms and in the gymnasium.

1.6 D - Services – Conveying

The building is single-storey structure without a basement and does not have a vertical transportation system.

1.7 D – Services – Plumbing

The building plumbing system is in fair condition overall. Many of the fixtures are still original to the building and will require capital replacement or upgrade in the near future.

1.8 D - Services - HVAC

The building HVAC system is in fair to good condition overall. Heating and cooling is provided by approximately 13 rooftop HVAC units (RTU1 to RTU13). In the washrooms that are accessed from the exterior heating is provided by electric force flow heaters. There are two ceiling suspended natural gas fired heaters in the storage area. Washroom and change room exhaust is provided by approximately nine exhaust fans. A BMS system manufactured by Reliable controls the building heating, cooling and ventilation systems. As units are scheduled for replacement it is recommended that alternate energy efficient system should be considered.

1.9 D – Services – Fire Protection

The building fire suppression system consists of a wet sprinkler system and fire extinguishers. The kitchen has a chemical suppression system incorporated into the kitchen exhaust.

1.10 D – Services – Electrical

Building electrical system is in good condition overall. Much of the distribution system is original however some components have been added as needed.



1.11 G - Building Site Works

The facility domestic water supply, and the sanitary and storm sewer systems are connected to the City utilities. Concrete paved walkways connect the building main entrances to the parking areas and street.

2 Introduction

Facility Condition Assessment Portfolio Experts Canada Ltd. (FCAPX) was contracted by the City of Campbell River (Campbell River) to provide Building Condition Assessments (BCAs) for 41 municipally-owned buildings located throughout the City. Site assessments were carried out in January and February 2017.

3 Building Condition Assessment Summary

FCAPX conducted BCA's for the following assets/components observed within the subject buildings based on the Uniformat II building classification system:

- A- Substructure
- o B- Shell
- o C Interiors
- D Services
- o G Building Siteworks

The Opinion of Probable Cost Table is provided in Appendix A. The Photo Log is provided in Appendix B.

4 SCOPE

The scope of this assessment is consistent with the requirements of a BCA report prepared for capital planning purposes and is specifically formatted to support the inclusion of the building assets into Campbell River's Asset Management Plan. This BCA report was prepared in accordance with the scope of services outlined in our proposal dated September 6, 2016.

The BCA carried out by FCAPX is generally based on the ASTM E2018-15: Standard Guide for Property Condition Assessments and consisted of the following:

- Interviews with property management and maintenance staff;
- Review, where available, of drawings and previously completed assessment reports;
- Walk-through Site Assessment Visit;
- Preparation of tables with Opinions of Probable Costs to remedy physical deficiencies;



- Preparation of tables with Opinions of Probable Costs to replace components which will exceed their expected useful life (EUL) over a 25year evaluation period; and
- Preparation of Building Condition Assessment Report, which includes a photo log of the components addressed.

ASTM defines a physical deficiency as a conspicuous defect or significant deferred maintenance of a site's material systems, components, or equipment as observed during the site assessor's walk-through site visit. Included within this definition are material systems, components, or equipment that are approaching, have reached, or have exceeded their typical expected useful life (EUL) or whose remaining useful life (RUL) should not be relied upon in view of actual or effective age, abuse, excessive wear and tear, exposure to the elements, lack of proper or routine maintenance, etc. This definition specifically excludes deficiencies that may be remedied with routine maintenance, miscellaneous minor repairs, normal operating maintenance, etc., and excludes conditions that generally do not constitute a material physical deficiency of the site.

The review of the Site was based on a visual walk-through review of the visible and accessible components of the property, building and related structures. The roof surface, interior and exterior wall finishes, and floor and ceiling finishes of the on-site building and related structures were visually assessed to check their condition and to identify physical deficiencies where observed. The assessment did not include an intrusive investigation of wall assemblies, ceiling cavities, or any other enclosures/assemblies. No physical tests were conducted and no samples of building materials were collected to substantiate observations made, or for any other reason.

The review of the mechanical systems, electrical systems, and fire & life safety systems at the property included discussions with the site representative and review of pertinent maintenance records that were made available. A visual walk-through assessment of the mechanical systems, electrical systems, and fire & life safety systems was conducted to determine the type of systems present, age, and aesthetic condition. No physical or performance tests were conducted on these systems.

A detailed evaluation of the property development's compliance with applicable national and/or provincial Building Codes and/or Fire Codes is not part of the scope of this assessment. It is assumed that the existing buildings and related structures were reviewed and approved by local authorities at the time of construction. However, applicable codes were used by FCAPX during the assessment as a reference in determining appropriate recommendations.



Replacement and repair costs are based on unit rates published by Means Publishing and/or Marshall & Swift Valuation Service, combined with local experience gained by FCAPX. The quantities associated with each item have been estimated during a walk-through site assessment and do not represent exact measurements or quantities. At the time of replacement, specific "scope of work" statements and quotations should be determined and the budgetary items revised to reflect actual expenditures. Not included are items that would be addressed as routine maintenance. However, the capital costs may include items, which are currently managed under the Operations and Maintenance budget for the site.

In the report, a cost threshold based on property type was generally used to identify the deficiencies observed at the site: \$1,500.

Opinions of probable costs for deficiencies that are individually less than the established threshold amount are generally not included in the BCA cost tables. The exception are deficiency costs relating to life, safety or accessibility; these may be included regardless of this cost threshold.

4.1 Urgency Ratings

FCAPX has applied an urgency rating to each component included in the report. The following table outlines the urgency rating system utilized for the Campbell River BCA's.

Table 1 – BCA Urgency Rating		
Rating	Definition	
Very Poor/Critical	Component has either failed, or is at risk of failing imminently. Repair/replacement should be undertaken within the current year.	
Poor	Component exhibits significant deterioration/deficiencies and/or has significant issues reported by client/building staff. Repair or replacement is anticipated within 1 to 2 years.	
Fair	Component exhibits minor deficiencies and/or has issues reported by client/building staff. Additionally, items that have exceeded or will exceed their useful life during the evaluation period. Repair or replacement is recommended within 3 to 5 years.	
Good	Components that do not exhibit deficiencies and do not have significant issues reported by client/building staff. Repair or replacement is typically recommended in alignment with component lifecycle within 6 to 10 years.	
Very Good	Components that do not have significant deficiencies and do not have any lifecycle replacement events recommended within 10 years.	

4.2 Deviations from Guide

The major deviations from ASTM E2018-15 for this project were as follows: No reviews of municipal/public records for zoning, building, and/or fire & life safety code/regulatory comparison conducted. However, a site representative was asked to confirm whether there were any such compliance issues.

This assessment did not include:

- Verification of the property's compliance with barrier-free accessibility requirements.
- Investigation of whether or not the property resides in a flood plain.
- Verification of number of parking spaces.
- Verification of gross and net usable areas of the site building(s).
- Review of as-built construction drawings for the Site and its building.

A detailed evaluation of the property development's compliance with national and/or provincial Building Codes and Fire Codes (as well as local/municipal by-laws, etc.) was not part of the scope of this assessment. The existing building and related structures are assumed to have been reviewed and approved by local authorities at the time of construction and/or subsequent renovation(s).

5 GENERAL FALL ARREST GUIDELINES

The following is a guideline for an employer or owner in respect to workers who may need to carry out inspections/maintenance or equipment maintenance/repairs and the worker is subject to falling a vertical distance of 3.0 m (10 ft) or more, for example the roof.

Please note that the guidelines below are not intended to supersede or amend the Occupational Health and Safety Regulation (OHS Regulation) under the inspectional jurisdiction of WorkSafeBC. We recommend that the employer/owner read the OHS Regulations prior to delegating a task to the worker.

According to OHS Regulation 3.5 every employer must ensure that regular inspections are made of all workplaces, including buildings, structures, grounds, excavations, tools, equipment, machinery and work methods and practices, at intervals that will prevent the development of unsafe working conditions

5.1 Working at Heights Training

Before a worker is allowed to proceed with a task, where a risk of falling exists, the employer/owner must ensure that worker has successfully completed a working at heights training by an approved authority or agency and the certificate of training has not expired.



In addition, the employer must ensure that at the subject work site there is a written fall protection plan and the worker is aware and instructed in the fall protection systems and procedures for the subject work site.

5.2 Use of Ladders or Work Platforms

Employer/owner must ensure that ladders and work platforms selected and used by the worker are appropriate for the work activity, and meet and are used in accordance with the applicable CSA or ANSI standard, in effect when the ladder or work platform was manufactured.

5.3 Unguarded Edges

Where there is an unguarded edge or no guardrail provided, the employer/owner must instruct the worker of the control zone which is a safe distance 2.0 m (6.5 ft) from the unguarded edge. In addition, the employer/owner must appoint a safety monitor to ensure the worker stays within the control zone and work is carried out in a manner that minimizes the risk/potential to fall.

5.4 Fall Protection Methods

Where, due to the location of the equipment or activity, the worker may need to work outside of the control zone, the employer/owner must ensure that one or more of the fall protection methods/equipment are available to the worker:

- Guardrails engineered and constructed in conformance with OHS Regulations are provided. The provided guardrail should consist of a top rail, which is between 102 cm to 112 cm above the work surface and a mid rail, which located approximately midway between the underside if the top rail and the top of toe board, if provided, or the work surface: and/or
- A fall arrest system that stops the worker in mid-fall and prevent the worker from hitting the surface below. Examples include a safety nets and full body harnesses attached by lifelines to secured anchors.

5.5 Subject Site Proposed Fall Arrest Protection Plan/Requirement

The Sportsplex building is a single-storey structure with some raised roof sections. Caged wall mounted roof ladders are provided from the lower roof sections to the raised roof sections. However, the lower roof sections can only be accessed by an external temporary ladder installed on grade adjacent to the building. The roof cover is a preformed metal roof system, and the roof sections are either low pitched gable roofs or low sloped roofs.

At the roof edge curbs/parapets are not provided. Storm water runoff is directed to the gutters provided at the roof edge. Rooftop mechanical system include approximately 13 HVAC units and approximately nine exhaust fans. Most of the rooftop mechanical



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equipment are located in the safe control zone. However, given that the roof sections are either low pitched gabled or low slope roof sections with no safe parapet or curb at the roof edge, there are no roof anchors or guardrails around the rooftop mechanical equipment. Hence, at the subject site, the fall arrest protection plan, at a minimum, must include:

- A worker, who has completed and has a valid (not expired) Fall Arrest Training Certificate;
- An appropriate ladder to access the one-storey building;
- A safety monitor to instruct, and ensure the worker stays in the safe control zone;
 and
- Either engineer approved guardrail or a fall arrest system, when the subject task requires the worker to review/assess/maintain the rooftop mechanical equipment.

Table 2 below provides an estimate of the capital costs associated with the installation of the recommended building improvements list above.

Table 2 – Fall Arrest Capital Cost Recommendations		
Recommendation	Estimated Cost	
Install an approximately 18-foot high wall mounted external roof access ladder with a safety compliant cage.	\$3,500.00	
Install an engineered fall arrest system or a guardrail at the roof edge, where a worker is required to step out of the safety control zone to under a task.	\$1,500.00	
Total	\$5,000.00	

6 LIMITING CONDITIONS

This report has been prepared for the exclusive and sole use of the City of Campbell River. The report may not be relied upon by any other person or entity without the express written consent of FCAPX and the City of Campbell River.

Any reliance on this report by a third party, any decisions that a third party makes based on this report, or any use at all of this report by a third party is the responsibility of such third parties. FCAPX accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made, or actions taken, based on this report.

The assessment of the building/site components was performed using methods and procedures that are consistent with standard commercial and customary practice as outlined in ASTM Standard E 2018-15 for Property Condition Assessments. As per this ASTM Standard, the assessment of the building/site components was based on a visual walk-through site visit, which captured the overall condition of the site at that specific point in time only.



No legal surveys, soil tests, environmental assessments, geotechnical assessments, detailed barrier-free compliance assessments, seismic assessments, detailed engineering calculations, or quantity surveying compilations have been made. No responsibility, therefore, is assumed concerning these matters. FCAPX did not design or construct the building(s) or related structures and therefore will not be held responsible for the impact of any design or construction defects, whether or not described in this report. No guarantee or warranty, expressed or implied, with respect to the property, building components, building systems, property systems, or any other physical aspect of the property is made.

The recommendations and our opinion of probable costs associated with these recommendations, as presented in this report, are based on walk-through non-invasive observations of the parts of the building which were readily accessible during our visual review. Conditions may exist that are not as per the general condition of the system being observed and reported in this report. Opinions of probable costs presented in this report are also based on information received during interviews with operations and maintenance staff. In certain instances, FCAPX has been required to assume that the information provided is accurate and cannot be held responsible for incorrect information received during the interview process. Should additional information become available with respect to the condition of the building and/or site elements, FCAPX requests that this information be brought to our attention so that we may reassess the conclusions presented herein.

The opinions of probable costs are intended for global budgeting purposes only. The scope of work and the actual costs of the work recommended can only be determined after a detailed examination of the site element in question, understanding of the site restrictions, understanding of the effects on the ongoing operations of the site/building, definition of the construction schedule, and preparation of tender documents. We expressly waive any responsibilities for the effects of any action taken as a result of these endeavors unless we are specifically advised of prior to, and participate in the action, at which time, our responsibility will be negotiated.

Our opinions and recommendations presented in our reports will be rendered in accordance with generally accepted professional standards and are not to be construed as a warranty or guarantee regarding existing or future physical conditions at the Site or regarding compliance of Site systems/components and procedures/operations with the various regulating codes, standards, regulations, ordinances, etc.



Client Name	City of Campbell R
Building Name	SPORTSP
Building Number	E
Address	1800 South Alder St
Building Size (sq.ft.)	33
Number of Storeys	
Date of Construction	
Date of Site Visit	2017-0
Current Year	2
Current Replacement Value	\$8,329,
Facility Condition Index (FCI)	31.

h		Facility Condition Index (FCI)		4																						
						Opinion of Probable Cost Table		Overall Asset Condition	Summary																	
Discipline Rec # Uniformat Level 1	Uniformat Level 2	Uniformat Level 3	Uniformat Level 4	Component Type	Component Narrative	Condition Narrative		D-6-1				1-14 C T C-	at Installation But		e Remaining Useful Life	D	Dhata Na Eas			1 0040 1	2002 2	Event	Year			Total
Rec # Uniformat Level 1	Uniformat Level 2	Uniformat Level 3	Uniformat Level 4	Component Type	Component warrative Building has a cast-in-place concrete slab-on-grade floor, which is generally covered with a floor covering.	The concrete slab-on-grade floor appears to be in good condition overall.	orgency Rating	Denciency Category	Recommendation Type	Quantity	Unit of Measure	Jnit Cost Total Co	st Installation Dai	e Expected Oserui Lin	e Remaining Oserul Life	Recommendation Timing	Photo No. Eve	nt rear 201	2016	2019	2020 2	2022 - 20.	26 2027 - 2031	2032 - 2036	2037 - 2041	Total
1 A - Substructure	A10 - Foundations	A1030 - Slabs On Grade	A1031 - Standard Slab on Grade	Concrete	covered with a libor covering.	Where exposed, a crack, which runs east/west along gridline 8 (see architectural floor plan), was noted in the building. It is recommended that the crack be	2 - Good	Building Integrity	Lifecycle Replacement	33035	sq.ft.	\$0 \$0	1985	75	43	43		2060 \$0	\$0	\$0	\$0 :	0 \$0	\$0	\$0	\$0	\$0
						monitored, and should significant change be noted a structural engineer be retained.																			A	
Subtotal - A - Substructure Discipline						B - Shell												\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0
Rec # Uniformat Level 1	Uniformat Level 2	Uniformat Level 3	Uniformat Level 4	Component Type	Component Narrative	Condition Narrative	Urgency Rating	Deficiency Category	Recommendation Type	Quantity	Unit of Measure U	Jnit Cost Total Co	st Installation Dat	te Expected Useful Life	e Remaining Useful Life	Recommendation Timing	Photo No. Eve	nt Year 201	2018	2019	2020 2	Event	Year 26 2027 - 2031	2032 - 2036	2037 - 2041	Total
					The building is a pre-engineered steel framed structure. In the gymnasium th buildings structure consists of tapered steel columns connected to the roof	No significant deficiencies on the exposed exterior wall to suggest movement or deterioration of the structure was observed. However, as indicated above, a crack,										-										
					steel beams, where the metal roof deck is fastened by metal purlins to the building structure.	which runs east/west along gridline No.8 (see drawings), was observed on the floor slab. Although no significant elevation difference was noted, the crack appears to																			A	
2 B - Shell	B10 - SuperStructure	B1030 - Structural Frame				have travelled, and was noted on the concrete block walls and the ceramic floor tiles in change rooms 1 to 4. The completion of a seismic report could not be confirmed.	2 - Good	Building Integrity	Lifecycle Replacement	1	each	\$0 \$0	1975	76	34	34	2, 3, 4 & 5	2051 \$0	\$0	\$0	\$0 :	0 \$0	\$0	\$0	\$0	\$0
						As previously mentioned the crack should be monitored and should significant change be noted a structural engineer retained.	•																		A	
					Roof construction consists of a preformed metal roof systems connected to	The roof structural frame assembly appears in good condition. No deficiencies were observed or noted during the assessment.													-							_
3 B - Shell	B10 - SuperStructure	B1020 - Roof Construction	B1022 - Pitched Roof Construction		the roof steel beams by purlins. At northeast and southeast facility corners low sloped metal framed canopy	No deficiencies were observed or noted during the assessment. The surface	2 - Good	Building Integrity	Lifecycle Replacement	33035	sq.ft.	\$0 \$0	1985	75	43	43		2060 \$0	\$0	\$0	\$0 :	0 \$0	\$0	\$0	\$0	\$0
4 B - Shell	B10 - SuperStructure	B1030 - Structural Frame	B1021 - Flat Roof Construction		normeast and southeast facility corners low sloped metal framed camppy roof structures supported on a steel frame are provided.	No deliciencies were observed or noted during the assessment. The surface corrosion noted should be addressed by maintenance, as this will assist the structure achieve its EUL.	2 - Good	Building Integrity	Lifecycle Replacement	3	each	\$0 \$0	1985	75	43	43	1 :	2060 \$0	\$0	\$0	\$0 :	0 \$0	\$0	\$0	\$0	\$0
					Exterior wall assembly consists of painted concrete masonry, which extends approximately 8.0 ft. high from grade.	Our observations noted that, in general, the concrete masonry blocks are in poor condition. Deterioration included visible moisture on the interior face of the concrete:																				
				B2011 - Exterior Walls -		masonry in many locations. The noted moisture infiltration may be attributed to the exterior grade (landscaping) at several isolated locations being above the grade																			A	
5 B - Shell	B20 - Exterior Enclosure	B2010 - Exterior Walls	B2011 - Exterior Wall Construction	Concrete Block Wall System		beam. In addition delamination of the concrete masonry units, especially at north elevation corners was observed. In order to confirm the scope and methodology of	4 - Poor	Building Integrity	Study	1	sq.ft.	\$12,000	1985	74	42	0	6, 7,8 & 8	2017 \$12,0	00 \$0	\$0	\$0	\$0	\$0	<u>\$0</u>	\$0	\$12,000
						the rehabilitation, a Building Envelope Condition Assessment (BECA) study is recommended.																			A	
				B2011 - Exterior Walls -	Exterior wall assembly consists of painted concrete masonry, which extends	The scope and fee of the intervention to address the noted deterioration is subject to			Condition-Based			_		_	_						_		_			
6 B - Shell	B20 - Exterior Enclosure	B2010 - Exterior Walls	B2011 - Exterior Wall Construction	Concrete Block Wall System	approximately 8.0 ft. high from grade. Exterior wall assembly above the concrete masonry block consists of medium	the study. No significant deterioration was noted on the prefinished metal panels.	4 - Poor	building Integrity	Replacement	0000	sq.ft.	\$30 \$204,00	1985	75	43	•	6, 7,8 & 9	2018 \$0	\$204,00	0 \$0	\$0 (0 (50)	\$0	\$0	\$0	\$204,000
<u> </u>				B2011 - Exterior Walls -	gauge metal channel cladding, installed vertically and fastened with exposed fasteners to the metal grits of the steel framed structure.	No significant deterioration was noted on the pretinished metal panels. However, it was noted that the flashing details, especially at the concrete masonry							_	_	_	_								_		
7 B - Shell	B20 - Exterior Enclosure	B2010 - Exterior Walls	B2011 - Exterior Wall Construction	Prefinished metal panels non- insulated	and the state of t	interface is poorly constructed, and several poorly sealed penetrations, potential allowing moisture infiltration. Recommend that the scope of the BECA include the	3 - Fair	Building Integrity	Major Repair	7500	sq.ft.	\$18	1985	40	8	2		2019 \$0	\$0	\$135,000	\$0	(50)	\$0	<u>\$0</u>	\$0	\$135,000
				1	Exterior windows consist of medium grade commercial aluminum windows	above noted deficiencies. The condition of windows is fair. In general the windows do not appear to comply to																				
8 B - Shell	B20 - Exterior Enclosure	B2020 - Exterior Windows	B2021 - Windows		constructed with insulated glass units (IGUs).	the current Best Practice installation guidelines. Although not confirmed, water/moisture ingress is likely occurring in several areas. Prior to replacement, a	3 - Fair	Building Integrity	Condition-Based	31	each	\$1,500 (\$46,500	1985	40	8	4	10	2021 \$0	\$0	(\$0)	\$0 \$46	,500 \$0	(\$0)	(\$0)	<u>\$0</u>	\$46,500
						study to determine details, manufacture and scope of work for windows is			керасетен		_			_		-										
9 B - Shell	B20 - Exterior Enclosure	B2030 - Exterior Doors	B2023 - Storefronts		A storefront assembly (windows and doors) are used at the three building entrances: north, east & west elevations. In total there are 13 exterior entry	Doors are well-maintained and in good condition. No deficiencies were observed or noted during the assessment.	2 - Good	Building Integrity	Lifecycle Replacement	18	each	\$3,500 \$63,000	2008	25	16	16	11 :	2033 \$0	\$0	\$0	\$0 :	0 \$0	\$0	\$63,000	\$0	\$63,000
					doors. Three doors are constructed with automatic door open devices. Exterior doors are generally pressed steel doors and metal frames.	Several doors and door hardware have been replaced, and the exterior doors are in																				
10 B - Shell	B20 - Exterior Enclosure	B2030 - Exterior Doors	B2032 - Solid Exterior Doors			good condition. Due to the frequency of use, failure of the exterior door hardware is anticipated, and a provision for their replacement is tracked in the table. For the purpose of this report we have combined, excluding the storefront assembly	2 - Good	Building Integrity	Lifecycle Replacement	10	each	\$3,500 \$35,000	2008	25	16	8	12	2025 \$0	\$0	\$0	\$0 :	0 \$35,000	\$0	\$0	\$0	\$35,000
						door at main entrance, all doors together .																			A	
				B3011 - Roof Coverings	The facility roof cover is a standing seam metal roof. Metal gutters and external rain water leaders, which are integrated with the roof assembly,	The roof assembly system is in poor condition. Consistent with the roof age, numerous patch repairs, especially at the gutters, and metal surface corrosion was																				
(11) B - Shell	B30 - Roofing	B3010 - Roof Coverings	B3011 - Roof Finishes	Preformed/ standing sean metal roof	n provide the storm water surface runoff.	evident. The facility manager confirmed the presence of roof leaks. It is recommended, that, in order to design the flashing details, the replacement be	4 - Poor	Building Integrity	Lifecycle Replacement	33100	sq.ft.	\$25	1985	35	3	1	13, 14, 15 & 16	2018 \$0	\$827,50	SO SO	\$0	(\$0)	\$0	(\$0)	\$0	\$827,500
Subtotal - B - Shell						deferred to after the completion of the BECA.												\$12,0	00 \$1,031,5	00 \$135,000	\$0 \$46	,500 \$35,000	\$0	\$63,000	\$0	\$1,323,000
Discipline							1		C - Interiors													Event	! Year			$\mp \mp$
Rec # Uniformat Level 1	Uniformat Level 2	Uniformat Level 3	Uniformat Level 4	Component Type	Component Narrative The fixed partitions consist primarily of painted concrete masonry units	Condition Narrative Facility is kept very clean and maintained and walls are in good condition.	Urgency Rating	Deficiency Category	Recommendation Type	Quantity	Unit of Measure L	Jnit Cost Total Co	st Installation Dat	te Expected Useful Life	fe Remaining Useful Life I	Recommendation Timing	Photo No. Eve	nt Year 201	2018	2019	2020 2	2022 - 20	26 2027 - 2031	2032 - 2036	2037 - 2041	Total
12 C - Interiors	C10 - Interior Construction	C1010 - Partitions	C1011 - Fixed Partitions		(CMUs) and steel stud walls. The four racquet courts are comprised of painted plywood walls.		2 - Good	Appearance	Lifecycle Replacement	420	linear ft.	\$85 \$35,700	1985	50	18	18	17	2035 \$0	\$0	\$0	\$0 :	iO \$0	\$0	\$35,700	\$0	\$35,700
				Raquet Court Glazed	At the racquet court two fixed vision panel walls and two moveable vision	No deficiencies were observed or reported during the assessment. According to the								+											\vdash	
13 C - Interiors	C10 - Interior Construction	C1010 - Partitions		Walls	panel walls are provided.	site contact the vision panel walls are maintained by a service contractor on a regular basis.	2 - Good	Appearance	Lifecycle Replacement	4	each	\$10,000 \$40,000	1985	40	8	8	18 & 19	2025 \$0	\$0	\$0	\$0	\$40,000	\$0	\$0	\$0	\$40,000
14 C - Interiors	040 Interior Occupant	C1020 - Interior Doors	C1021 - Interior Doors		The interior double-doors and single-doors are comprised of pressed steel metal doors & metal door frames.	The interior doors, door frames and door hardware are in good condition. As per information provided the interior doors are repaired and maintained on an as needed	2 - Good		Lifecycle Replacement		each	\$3,500 \$234,50	4005	40		40		2027 \$0	SO.	\$0		i0 \$0	\$234,500	SO SO	-	\$234.500
14 C - Interiors	C10 - Interior Construction	C1020 - Interior Doors	C1021 - Interior Doors			basis by a professional service contractor.	2 - Good	Appearance	Lifecycle Replacement	67	each	\$3,500 \$234,50	0 1985	40	8	10		2027 \$0	\$0	\$0	\$0 :	iu \$0	\$234,500	\$0	\$0	\$234,500
15 C - Interiors	C10 - Interior Construction	C1010 - Partitions	C1013 - Retractable Partitions		The lobby reception area has a retractable folding sliding security grill partition	No deficiencies were observed or reported during the assessment. According to the site contact the movable partition is maintained by a service contractor on a regular	2 - Good	Appearance	Lifecycle Replacement	1	each	\$5,500 \$5,500	1985	35	3	5	20	2022 \$0	\$0	\$0	\$0 :	io \$0	\$0	\$0	\$0	\$0
					An electric powered movable partition door in the gymnasium. The controls	basis. No deficiencies were observed or reported during the assessment. According to the									-											4
16 C - Interiors	C10 - Interior Construction	C1010 - Partitions	C1013 - Retractable Partitions		require a key access and only operated by the maintenance staff.	site contact the movable partition is maintained by a service contractor on a regular basis.	2 - Good	Appearance	Lifecycle Replacement	1	each	\$75,000	1985	30	-2	5	21 :	2022 \$0	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	\$75,000
17 C - Interiors	C10 - Interior Construction	C1010 - Partitions	C1013 - Retractable Partitions		A manually operated movable partitions, which consist folding panels, separates the two activity rooms.	Door requires maintenance to close tightly and maintain the sound barrier between the activity rooms.	3 - Fair	Appearance	Lifecycle Replacement	1	each	\$18,000	1985	30	-2	3	22 :	2020 \$0	\$0	\$0	\$18,000	0 \$0	\$0	\$0	\$0	\$18,000
18 C - Interiors	C10 - Interior Construction	C1010 - Partitions	C1011 - Fixed Partitions		Pressed steel frames vision panels separate the corridors from rooms	The metal frames and vision panels are in good condition. No deficiencies were observed or noted during the assessment. Tollet Partitions were replaced in approximately 2012 and in good condition.	2 - Good	Appearance	Lifecycle Replacement	8	each	\$2,000 \$16,000	1985	40	8	8		2025 \$0	\$0	\$0	\$0 :	\$16,000	\$0	\$0	\$0	\$16,000
19 C - Interiors	C10 - Interior Construction	C1031 - Fabricated Toilet Partitions	C1031 - Fabricated Toilet Partitions	3	Baked enamel toilet partitions are provided in the men's & women's washrooms. Washroom accessories provided in the men's & women's washrooms include	Tollet Partitions were replaced in approximately 2012 and in good condition. Washroom accessories are in good condition.	2 - Good	Appearance	Lifecycle Replacement	21	each	\$1,800 \$37,800	2012	35	30	30	23 :	2047 \$0	\$0	\$0	\$0 :	0 \$0	\$0	\$0	\$0	\$0
20 C - Interiors	C10 - Interior Construction	C1031 - Fabricated Toilet Partitions	C1031 - Fabricated Toilet Partitions	3	wasnroom accessories provided in the men's & women's wasnrooms include mirrors paper towel and waste dispensers, soap dispensers, tollet paper dispensers, etc. Quantities are based on washroom count	No deficiencies were observed or noted during the assessment.	2 - Good	Appearance	Lifecycle Replacement	6	each	\$1,500 \$9,000	1985	35	3	5		2022 \$0	\$0	\$0	\$0	\$9,000	\$0	\$0	\$0	\$9,000
21 C - Interiors	C10 - Interior Construction	C1030 - Fittings Specialties	C1032 - Fabricated Compartments & Cubicles		Millwork & countertops are provided in washrooms, kitchen and wet bar in south Activity Room.	Milwork is in good condition. No deficiencies were observed or noted during the assessment.	2 - Good	Appearance	Lifecycle Replacement	65	linear ft.	\$275 \$17,875	2008	25	16	15	25 :	2032 \$0	\$0	\$0	\$0 :	0 \$0	\$0	\$17,875	\$0	\$17,875
22 C - Interiors	C10 - Interior Construction	C1030 - Fittings Specialties	C1037 - General Fittings & Misc. Metals		Custom wood benches are provided men's and women's change rooms	No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment.	2 - Good	Appearance	Lifecycle Replacement	6	each	\$800 \$4,800	2008	25	16	16		2033 \$0	\$0	\$0	\$0	0 \$0	\$0	\$4,800	\$0	\$4,800
23 C - Interiors	C10 - Interior Construction	C1030 - Fittings Specialties	C1037 - General Fittings & Misc. Metals	C1037 - Lockers	Baked enamel lockers are provided in the change rooms.	Lockers were reportedly replaced in approximately 2012 and are good condition.	2 - Good	Appearance	Lifecycle Replacement	64		\$200 \$12,800		25	20	20		2037 \$0	-		\$0		\$0	\$0	\$12,800	\$12,800
24 C - Interiors 25 C - Interiors	C10 - Interior Construction C10 - Interior Construction	C1030 - Fittings Specialties C1030 - Fittings Specialties	C1035 - Identifying Devices	1	Wayfinding include signs & plaques. Four manually operated and two electric operated basketball backstops are	No deficiencies were observed or reported during the assessment. No deficiencies were observed or reported during the assessment.	2 - Good 2 - Good	Building Integrity Building Integrity	Lifecycle Replacement Lifecycle Replacement	1 6		\$5,000 \$5,000 \$5,000 \$30,000		35 35	3	5		2022 \$0 2022 \$0				0 \$5,000 0 \$30,000		\$0 \$0	\$0 \$0	\$5,000 \$30,000
26 C - Interiors	C10 - Interior Construction	C1030 - Fittings Specialties				Equipment reportedly replaced in approximately 2015, and in good condition.	3 - Fair	Functionality - Space	Lifecycle Replacement	1		\$20,000 \$20,000		20	18	18		2035 \$0				60 \$0	\$0	\$20,000	\$0	\$20,000
27 C - Interiors	C10 - Interior Construction	C1030 - Fittings Specialties			and miscellaneous equipment. Specialty gymnasium equipment consist of, electronic game board and controllandware.	Component appear to be in very good condition. An allowance has been provided for this equipment at \$10,000.	2 - Good	Functionality Functionality - Space	Lifecycle Replacement	1		\$10.000 \$10.000		20	18	18		2035 \$0				i0 \$0	\$0	\$10,000	\$0	\$10.000
					nardware. The retractable bleachers for the gymnasium are stored in the East Corridor to	this equipment at \$10,000. No deficiencies were observed during the assessment. Reportedly replaced in approximately 2005.		Functionality Functionality - Space		'																
28 C - Interiors	C10 - Interior Construction	C1030 - Fittings Specialties	C1013 - Retractable Partitions	C1037 - Bleachers	The restactable bleachers for the gymnasium are stored in the East Comoor is facilitate viewing of the racquet courts Interior walls are provided with a painted finish.	The color and age of the paint finishes appear to vary throughout the building and are	2 - Good	Functionality - Space	Lifecycle Replacement	4	each	\$5,000 \$20,000		25	13	13		2030 \$0				0 \$0		\$0	\$0	\$20,000
29 C - Interiors	C30 - Interior Finishes	C3010 - Wall Finishes	C3012 - Wall Finishes to Interior Walls			noted to be in good condition.	2 - Good	Appearance	Lifecycle Replacement	15000	sq.ft.	\$2 \$30,000	2012	10	5	5		2022 \$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000
30 C - Interiors	C30 - Interior Finishes	C3010 - Wall Finishes	C3012 - Wall Finishes to Interior Walls	C3012 - Wood Paneled Wall Finish	Wood panelled wall finishes provided in the gymnasium walls and racquet courts.	Panelling is in good condition. No deficiencies were observed or reported during the assessment.	2 - Good	Appearance	Lifecycle Replacement	6000	sq.ft.	\$4 \$24,000	1985	35	3	5		2022 \$0	\$0	\$0	\$0 :	\$24,000	\$0	\$0	\$0	\$24,000
31 C - Interiors	C30 - Interior Finishes	C3010 - Wall Finishes	C3012 - Wall Finishes to Interior Walls C3024 - Flooring		Mirrored wall finishes are provided in the weight/exercise room on the north, south and east walls. Vinyl floor tiles are provided in the corridors.	Mirror panels are in good condition. No deficiencies were observed or noted during the assessment.	2 - Good	Appearance	Lifecycle Replacement	890		\$15 \$13,350		35	3	5						0 \$13,350		\$0	\$0	\$13,350
32 C - Interiors 33 C - Interiors	C30 - Interior Finishes C30 - Interior Finishes	C3020 - Floor Finishes C3020 - Floor Finishes	C3024 - Flooring C3024 - Flooring	C3024 - Ceramic Floor	Vinyl floor tiles are provided in the corridors. Ceramic floor tiles are used in the change room shower areas.	The vinyl floor tiles are in good condition. The ceramic floor tiles are in good condition.	2 - Good 2 - Good	Building Integrity Building Integrity	Lifecycle Replacement Lifecycle Replacement	9748 7577		\$13 \$126,72 \$10 \$75,770		25 25	-7 -7	5		2022 \$0 2022 \$0						\$0 \$0	\$0 \$0	\$126,724 \$75,770
34 C - Interiors	C30 - Interior Finishes	C3020 - Floor Finishes	C3024 - Flooring	Tiles C3025 - Carpet/Carpet	in annovimately 2015	No deficiencies were observed during noted during assessment. The carpet tiles, which were recently installed, are in good condition.	2 - Good	Building Integrity	Lifecycle Replacement	1033		\$5 \$5,165		12	10	10		2027 \$0						\$0	\$0	\$5,165
35 C - Interiors	C30 - Interior Finishes	C3020 - Floor Finishes	C3024 - Flooring	C3024 - Composition Floo	in approximately 2015. A cushioned rubber mat is provided in the weight/exercise room.	The rubber flooring was reportedly installed in approximately 2015, and in good condition	2 - Good	Building Integrity	Lifecycle Replacement	1300		\$15 \$19,500		20	18	18		2035 \$0						\$19,500	\$0	\$19,500
36 C - Interiors	C30 - Interior Finishes	C3020 - Floor Finishes	C3024 - Flooring	C3024 - Painted/Sealed	Painted/Sealed concrete floor is provided for the main floor areas and the lower floor mechanical, artifact storage areas.	No deficiencies were observed or reported during the assessment.	2 - Good	Building Integrity	Lifecycle Replacement	400	sq.ft.	\$2 \$800		30	-2	5		2022 \$0				0 \$800		\$0	\$0	\$800
37 C - Interiors	C30 - Interior Finishes	C3030 - Ceiling Finishes	C3031 - Ceiling Finishes	C3031 - Gypsum Board	Painted gypsum wallboard ceilings are provided in washrooms.	No deficiencies were observed or noted during the assessment.	2 - Good	Building Integrity	Lifecycle Replacement	5500	sq.ft.	\$9 \$22,500	1985	43	11	11		2032 \$0	\$0	\$0	\$0	0 \$0	\$0	\$22,500	\$0	\$22,500
38 C - Interiors	C30 - Interior Finishes	C3030 - Ceiling Finishes	C3032 - Suspended Ceilings	Ceilings C3031 - Suspended Acoustic Panel Ceiling		No deficiencies were observed or noted during the assessment.	2 - Good	Building Integrity	Lifecycle Replacement	1033	sq.ft.	\$5 \$5,165	1985	44	12	12		2029 \$0	\$0	\$0	\$0 :	0 \$0	\$5,165	\$0	\$0	\$5,165
39 C - Interiors	C30 - Interior Finishes	C3030 - Ceiling Finishes	C3033 - Other Ceilings		Exposed metal, ductwork, sprinkler piping and conduit is exposed in all areas excluding administration area and is detail painted with individual components	The exposed painted ceiling is in good condition.	2 - Good	Building Integrity	Lifecycle Replacement	1	each	\$40,000 \$40,000	2012	20	15	15	29	2032 \$0	\$0	\$0	\$0 :	0 \$0	\$0	\$40,000	\$0	\$40,000
40 C - Interiors	C30 - Interior Finishes	C1030 - Fittings Specialties	C1017 - Interior Windows &	1	having separate colors. Metal venetian blinds provide window covering main and upper floor office	The blinds are in good condition.	2 - Good	Functionality -	Lifecycle Replacement	13	each	\$350 \$4,550		20	13	13		2030 \$0				60 \$0	\$4,550	\$0	\$0	\$4,550
Subtotal - C - Interiors		go opcorasios	Storefronts		areas.	1	_ 000	Termperature Control					2010												\$12,800	
Discipline									Services - Conveying				1				L I.			1 0000		Event	Year	0005		
Rec # Uniformat Level 1 41 Subtotal - D - Services - Conv	Uniformat Level 2	Uniformat Level 3	Uniformat Level 4	Component Type	Component Narrative	Condition Narrative	Urgency Rating	Deficiency Category	Recommendation Type	Quantity	Unit of Measure U	Jnit Cost Total Co	st Installation Dat	te Expected Useful Life	e Remaining Useful Life	Recommendation Timing	Photo No. Eve	nt Year 201	2018 \$0	2019 \$0	2020 20 \$0 :	2022 - 20	2027 - 2031 \$0	2032 - 2036 \$0	\$0 \$0 \$0	Total \$0
Subtotal - D - Services - Conv Discipline	veying					D - Services - Plumbing												\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
Rec # Uniformat Level 1	Uniformat Level 2	Uniformat Level 3	Uniformat Level 4	Component Type	Component Narrative	Condition Narrative	Urgency Rating	Deficiency Category	Recommendation Type	Quantity	Unit of Measure L	Jnit Cost Total Co	st Installation Dat	te Expected Useful Life	le Remaining Useful Life	Recommendation Timing	Photo No. Eve	nt Year 201	2018	2019	2020 2	Event 21 2022 - 20	26 2027 - 2031	2032 - 2036	2037 - 2041	Total
42 D - Services	D20 - Plumbing	D2010 - Plumbing Fixtures	D2011 - Water Closets		Water closets are floor mounted flush valve type. Various makes and models are used in the facility.	Some units have failed over the years and have been replaced as required. The majority are still original to the building.	3 - Fair	Functionality - Space	Lifecycle Replacement	14	unit(s)	\$2,000 \$28,000	1985	25	-7	2		2019 \$0	\$0	\$28,000	\$0 :	60 \$0	\$0	\$0	\$0	\$28,000
					Uringle are wall hunn white ching with hands froe fligh values	No deficiencies were observed or noted during the assessment. Some units have failed over the years and been replaced as required. The majority		Functionality							1											
43 D - Services	D20 - Plumbing	D2010 - Plumbing Fixtures	D2012 - Urinals		Urinals are wall hung white china with hands free flush valves.	Some units have failed over the years and been replaced as required. The majority are still original to the building.	3 - Fair	Functionality - Space Functionality	Lifecycle Replacement	6	unit(s)	\$3,300 \$19,800	1985	25	-7	2		2019 \$0	\$0	\$19,800	\$0	0 \$0	\$0	\$0	\$0	\$19,800
		I	1	1	1	No deficiencies were observed or noted during the assessment.	1	- ancountary		1				1	1										4	4



						Lavatories are surface mounted white china with manual fixtures.	Opinion of Probable Cost Table Some units have failed over the years and been replaced as required. The majority																			
44	D - Services	D20 - Plumbing	D2010 - Plumbing Fixtures	D2013 - Lavatories			are still original to the building.	3 - Fair	Functionality - Space Functionality	Lifecycle Replacement 16	unit(s)	\$1,000 \$16,000	1985	25 -7	2	31	2019	\$0 \$1	\$16,0	00 \$0	\$0	\$0	\$0	\$0	\$0	\$16,000
45	D - Services	D20 - Plumbing	D2010 - Plumbing Fixtures	D2014 - Sinks		Single basin stainless steel surface mount sinks are located in the event	No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment.	3 - Fair	Functionality - Space	Lifecycle Replacement 5	unit(s)	\$1,000 \$5,000	1985	25 -7	5	33	2022	\$0 \$1	0 \$0	\$0	\$0	\$5,000	\$0	\$0	\$0	\$5,000
		-				rooms and staff funch area. Floor mount plastic mop sinks with wall hung utility fixtures are located in the Janitors' Rooms.			Functionality																	
46	D - Services	D20 - Plumbing	D2010 - Plumbing Fixtures	D2014 - Sinks		Januors Poorns.	replacement is necessary. No deficiencies were absorbed or noted during the accomment	3 - Fair	Functionality - Space Functionality	Lifecycle Replacement 3	unit(s)	\$1,500 \$4,500	1985	25 -7	5		2022	\$0 \$1	0 \$0	\$0	\$0	\$4,500	\$0	\$0	\$0	\$4,500
47	D - Services	D20 - Plumbing	D2010 - Plumbing Fixtures	D2014 - Sinks		Stainless steel commercial prep sinks are connected to a floor mounted grease interceptor.	No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment.	2 - Good	Functionality - Space Functionality	Lifecycle Replacement 1	unit(s)	\$5,000 \$5,000	2005	25 13	13	32	2030	\$0 \$1	0 \$0	\$0	\$0	\$0	\$5,000	\$0	\$0	\$5,000
48	D - Services	D20 - Plumbing	D2010 - Plumbing Fixtures	D2017 - Showers		Showers are tiled built in place units. Fixtures are normal flow heads with manual controls.	No deficiencies were observed or noted during the assessment.	3 - Fair	Functionality - Space Functionality	Lifecycle Replacement 16	unit(s)	\$1,500 \$24,000	1985	25 -7	2		2019	\$0 \$1	0 \$24,0	00 \$0	\$0	\$0	\$0	\$0	\$0	\$24,000
49	D - Services	D20 - Plumbing	D2010 - Plumbing Fixtures	D2018 - Drinking Fountains and Coolers		Stainless steel wall hung public drinking fountains are located around the facility.	No deficiencies were observed or noted during the assessment.	3 - Fair	Functionality - Space Functionality	Lifecycle Replacement 3	unit(s)	\$1,000 \$3,000	1985	25 -7	2		2019	\$0 \$1	0 \$3,0	00 \$0	\$0	\$0	\$0	\$0	\$0	\$3,000
50	D - Services	D20 - Plumbing	D2010 - Plumbing Fixtures	D2018 - Drinking Fountains and Coolers		Elikay EZH20 combination dinking / bottle fill fountain is installed in the main corridor.	No deficiencies were observed or noted during the assessment.	2 - Good	Functionality - Space Functionality	Lifecycle Replacement 1	each	\$2,500 \$2,500	2010	25 18	18	30	2035	\$0 \$1	0 \$0	\$0	\$0	\$0	\$0	\$2,500	\$0	\$2,500
51	D - Services	D20 - Plumbing	D2020 - Domestic Water Distribution D2020 - Domestic Water	D2022 - Hot Water Service	D2022 - Domestic Water Heater	buffer tank, and expansion tanks.	Buffer tank is not seismically braced.	2 - Good	Building Integrity	Lifecycle Replacement 1	each	\$15,000 \$15,000	2010	20 13	13		2030	\$0 \$1	0 \$0	\$0	\$0	\$0	\$15,000	\$0	\$0	\$15,000
52	D - Services	D20 - Plumbing	D2020 - Domestic Water Distribution D2020 - Domestic Water	D2022 - Hot Water Service	D2022 - Domestic Water Heater	AO Smith Cyclone M modulating gas fired water heater is installed in the Mechanical room.	Items are stored directly in front of the tank should be relocated to a safe distance from the burner and flue connections.	3 - Fair	Building Integrity	Lifecycle Replacement 3	each	\$2,500 \$7,500	2011	10 4	4	34	2021	\$0 \$1	0 \$0	\$0 S	\$7,500	\$0	\$0	\$0	\$0	\$7,500
53	D - Services	D20 - Plumbing	D2020 - Domestic Water Distribution D2020 - Domestic Water	D2022 - Hot Water Service		John Wood electric hot water tanks are located in the janitors rooms. Units vary in model and capacity but are all approximately 180L volumes. Domestic water distribution is via copper piping.	Tanks lack seismic bracing.	3 - Fair	Building Integrity	Lifecycle Replacement 3	each	\$2,500 \$7,500	2011	10 4	4		2021	\$0 \$1	60 \$0	\$0 S	\$7,500	\$0	\$0	\$0	\$0	\$7,500
	D - Services	D20 - Plumbing	Distribution	D2023.4 - Plumbing Piping Systems	-		Not all of the water system piping has been thermally insulated.	2 - Good	Building Integrity	Lifecycle Replacement 33000		\$2 \$66,000	1985	37 5	5					\$0 \$0		\$66,000	\$0	\$0	\$0	\$66,000
	D - Services D - Services	D20 - Plumbing D20 - Plumbing	D2030 - Sanitary Waste D2030 - Sanitary Waste	D2031 - Waste Piping D2032 - Vent Piping		Waste piping is a combination of ABS and Black Iron piping. Vent piping is concealed in the walls and ceiling space. It is assumed to be	No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment.	2 - Good 2 - Good		Lifecycle Replacement 33000 Lifecycle Replacement 33000		\$3 \$99,000 \$1 \$16,500	1985 1985	37 5	5			**				\$99,000 \$16,500	\$0	\$0	\$0	\$99,000 \$16,500
	D - Services - Plum Discipline	nbing		II.		pas.				- Services - HVAC								\$0 \$1	0 \$90,8	00 \$0 \$	\$15,000	\$191,000	\$20,000	\$2,500	\$0	\$319,300
	Iniformat Level 1	Uniformat Level 2	Uniformat Level 3	Uniformat Level 4	Component Type	Component Narrative	Condition Narrative	Heanny Bating		Recommendation Type Quantit	ty Unit of Mossus	a Unit Cost Total Cost	Installation Date E	expected Useful Life Remaining U	Jseful Life Recommendation	Timing Photo No. E	ment Year 3	2017 201	10 201	0 2020	2024 2	Event Year	2027 2024	2032 - 2036	2037 - 2041	Total
57	D - Services	D30 - HVAC	D3010 - Fuel Energy Supply Systems	D3012 - Gas Supply System	Component Type	A gas meter is located on the front face of the building. Steel piping	No deficiencies were observed or noted during the assessment. Meter is property of	2 - Good	Functionality - Termperature Control	Lifecycle Replacement 33000		\$1 \$33,000		37 Kenianing C	6							\$33,000	\$0	\$0	\$0	\$33,000
58	D - Services	D30 - HVAC	03020 - Heat Generation Systems	D3022.2 - Rooftop AHU Heat and		distributes natural gas to the RTUs and kitchen equipment. RTU-1 Daikin Model DCG0360909BXXXAA. 208-230V/3ph, 92MBH Gas Fin MII A LIPS	the gas utility. ed No deficiencies were observed or noted during the assessment.	2 - Good	Functionality - Termperature Control	Lifecycle Replacement 1	each	\$8,700 \$8,700	2008	18 9	9		2026	\$0 \$1	0 \$0	\$0	\$0	\$8,700	\$0	\$0	\$0	\$8,700
59	D - Services	D30 - HVAC	03020 - Heat Generation Systems	D3022.2 - Rooftop AHU Heat and Cool		RTU-2 Goodman Company (Diaken) Model DCG0481153BXXXAA. 208- 230V/3oh. 115MBH Gas Fired MUA Unit.	No deficiencies were observed or noted during the assessment.	2 - Good	Functionality - Termperature Control	Lifecycle Replacement 1	each	\$11,000 \$11,000	2006	18 7	7		2024	\$0 SI	0 \$0	\$0	\$0	\$11,000	\$0	\$0	\$0	\$11,000
60	D - Services	D30 - HVAC	03020 - Heat Generation Systems	Cool D3022.2 - Rooftop AHU Heat and Cool		230V/3ph, 115MBH Gas Fired MUA Unit. RTU-3 Daikin Model DCG06014039BXXXAA. 208-230V/3ph, 138MBH Gas Fired MUA Unit.	No deficiencies were observed or noted during the assessment.	2 - Good	Functionality - Termperature Control	Lifecycle Replacement 1	each	\$13,000 \$13,000	2008	18 9	9		2026	-+	_		\$0	\$13,000	\$0	\$0	\$0	\$13,000
61	D - Services	D30 - HVAC	03020 - Heat Generation Systems	D3022.2 - Rooftop AHU Heat and)	RTU-4 Carrier Gas Fired MUA Unit.	Although no significant deficiencies were observed or reported during the assessment, the unit based on assumed age is in fair condition. Nameplate	3 - Fair	Functionality -	Lifecycle Replacement 1	each	\$11,000 (\$11,000)	2000	18 1	3		2020	(\$0) SI	0 (\$0	\$11,000	\$0	(\$0)	\$0	<u>\$0</u>	(\$0)	\$11,000
H				Cool D3022.2 - Rooftop AHU Heat and			information to confirm age and capacity was not available for review (faded). Although no significant deficiencies were observed or reported during the		Termperature Control															_		
62	D - Services	D30 - HVAC	03020 - Heat Generation Systems	(Cool)		RTU-5 Carrier Model 48LJE006531CA.	assessment, the unit based on assumed age is in fair condition. Nameplate information to confirm age and capacity was not available for review (faded).	3 - Fair	Termperature Control	Lifecycle Replacement 1	each	\$11,000	2000	18 1	3		2020	\$0 \$1	(\$0	\$11,000	\$0	\$0	\$0	<u>\$0</u>	<u>\$0</u>	\$11,000
63	D - Services	D30 - HVAC	03020 - Heat Generation Systems	D3022.2 - Rooftop AHU Heat and Cool		RTU-6 Carrier Model 48LJE006531CA. 208-230V/3ph, 115MBH Gas Fired MUA Unit.	 Although no significant deficiencies were observed or reported during the assessment, the unit based on assumed age is in fair condition. 	2 - Good	Functionality - Termperature Control	Lifecycle Replacement (1)	each	\$11,000	2000	(18)	3		2020	\$0 SI	(\$0	\$11,000	\$0	\$0	\$0	<u>\$0</u>	\$0	\$11,000
64	D - Services	D30 - HVAC	03020 - Heat Generation Systems	D3022.2 - Rooftop AHU Heat and Cool	,	RTU-7 Daikin Model DCG0902103BXXXAA. 208-230V/3ph, 210MBH Gas Fired MUA Unit.	No deficiencies were observed or noted during the assessment.	2 - Good	Functionality - Termperature Control	Lifecycle Replacement 1	each	\$19,700 \$19,700	2008	(18) 9	9		2026	\$0 \$1	0 \$0	\$0	<u>\$0</u>	\$19,700	\$0	<u>\$0</u>	\$0	\$19,700
65	D - Services	D30 - HVAC	03020 - Heat Generation Systems	D3022.2 - Rooftop AHU Heat and Cool		RTU-8 Carrier Model 48LJE006531CA, 208-230V/3ph, 115MBH Gas Firet MUA Unit.	d Although no significant deficiencies were observed or reported during the assessment, the unit based on assumed age is in fair condition.	3 - Fair	Functionality - Termperature Control	Lifecycle Replacement 1	each	\$11,000	2000	(18)	3			\$0 \$1	0 \$0	\$11,000	\$0	\$0	\$0	<u>\$0</u>	\$0	\$11,000
66	D - Services	D30 - HVAC	03020 - Heat Generation Systems	D3022.2 - Rooftop AHU Heat and Cool)	RTU-9 Carrier Model 48LJE012510. 208-230V/3Ph, 180MBH Gas Fired MU. Unit.	Although no significant deficiencies were observed or reported during the assessment, the unit based on assumed age is in fair condition.	3 - Fair	Functionality - Termperature Control	Lifecycle Replacement 1	each	\$17,000 \$17,000	2000	(18)	3		2020	\$0 \$1	0 \$0	\$17,000	\$0	\$0	\$0	\$0	\$0	\$17,000
	D - Services	D30 - HVAC	03020 - Heat Generation Systems	D3022.2 - Rooftop AHU Heat and Cool	,	RTU-10 Carrier Model 48LJE012510. 208-230V/3Ph, 180MBH Gas Fired MUA Unit.	Although no significant deficiencies were observed or reported during the assessment, the unit based on assumed age is in fair condition.	3 - Fair	Functionality - Termperature Control	Lifecycle Replacement 1	each	\$17,000	2000	18 (1)	3)		_	(\$0) (\$I	(\$0	\$17,000	<u>\$0</u>	\$0	\$0	<mark>\$0</mark>	(\$0)	\$17,000
	D - Services	D30 - HVAC	03020 - Heat Generation Systems	D3022.2 - Rooftop AHU Heat and Cool	/	MUA Unit. The April of the Apr	Although no significant deficiencies were observed or reported during the assessment, the unit based on assumed age is in fair condition. Ed Although no significant deficiencies were observed or reported during the	3 - Fair	Termperature Control	Lifecycle Replacement 1	each	\$17,000	2000	(18)			_	\$0 \$1			\$0	\$0	\$0	\$0	\$0	\$17,000
	D - Services	D30 - HVAC	03020 - Heat Generation Systems	Cool D3022.2 - Rooftop AHU Heat and	,	MUA Unit.	assessment, the unit based on age is in poor condition. Although no significant deficiencies were observed or reported during the	4 - Poor	Termperature Control	Lifecycle Replacement (1)	each	\$17,000 (\$17,000)	(1993)	18 -6		35)	2017 \$1	17,000 \$1		\$0	<u>\$0</u>	\$0	\$0	<u>\$0</u>	\$0	\$17,000
70	D - Services	D30 - HVAC	03020 - Heat Generation Systems	Cool	'	RTU-13 Engineered Air Model 8-250-# Gas Fired Makeup Air Unit.	assessment, the unit based on assumed age is in poor condition. Exhaust fans are at the end of their expected operational life. Component failures can	4 - Poor	Termperature Control	Lifecycle Replacement 1	each	\$23,500 (\$23,500)	1993	(18) (-6)	0		2017 \$2	23,500 \$1	(\$0	\$0	\$0	\$0	\$0	<u>\$0</u>	\$0	\$23,500
71	D - Services	D30 - HVAC	D3040 - Heat HVAC Distribution Systems	D3042 - Exhaust Ventilation Systems		exhaust fans (EF1 to EF-9).	be anticipated and will begin to occur.	4 - Poor	Functionality -	Lifecycle Replacement 9	each	\$9,000 \$81,000	1985	15 -17	1	36)	2018	\$0 \$81,	,000 \$0	SO SO	\$0	\$0	\$0	\$0	\$0	\$81,000
			D3050 - Heat Transfer Terminal			One unit services the commercial kitchen exhaust hood. Two Reznor manufactured ceiling suspended gas fired unit heaters are			Functionality -																	
72	D - Services	D30 - HVAC	and Packaged Units	D3052.3 - Heater		located in the storage area.	No deficiencies were observed or noted during the assessment. The units based on age are at the end of their operational life.	3 - Fair	Termperature Control	Lifecycle Replacement 2	each	\$2,500 \$5,000	1985	18 -14	3		2020	\$0 \$1	0 \$0	\$5,000	\$0	\$0	\$0	\$0	\$0	\$5,000
73	D - Services	D30 - HVAC	D3050 - Heat Transfer Terminal and Packaged Units	D3052.3 - Heater		Force Flow heaters are installed in the washrooms, which can be accessed from the exterior.		4 - Poor	Functionality -				1985	18 -14			2018	\$0 \$2,0	000 \$0	\$0	\$0	\$n	\$0	\$0	\$0	\$2,000
						non as exerci.			Termperature Control	Lifecycle Replacement 2	each	\$1,000 \$2,000	1505	18 -14	1		2010	\$0 \$2,0	000 90	\$0	\$0	40	**			
74	D - Services	D30 - HVAC	D3050 - Heat Transfer Terminal and Packaged Units	D3052.4 - Baseboard Heater		Baseboard heaters, of varying capacities, are installed in the staff office area	as. No deficiencies were observed or noted during the assessment.	4 - Poor	Functionality - Termperature Control	Lifecycle Replacement 2 Lifecycle Replacement 4	each	\$1,000 \$2,000	1985	15 -17				\$0 \$2,0			\$0	\$0	\$0	\$0	\$0	\$2,000
75	D - Services	D30 - HVAC	D3050 - Heat Transfer Terminal and Packaged Units D3060 - HVAC Instrumentation and Controls	D3052.4 - Baseboard Heater D3068 - Building Automation Systems			as. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment.		Functionality -		each				1		2018	\$0 \$2,0 \$0 \$1	000 \$0	\$0	\$0 \$0	\$33,000			\$0 \$0	\$2,000 \$33,000
75 Subtotal -		D30 - HVAC	and Packaged Units	D3068 - Building Automation		Baseboard heaters, of varying capacities, are installed in the staff office area Building includes an internet based BMS that interconnects all the local T-		4 - Poor	Functionality - Termperature Control Energy	Lifecycle Replacement 4	each	\$500 \$2,000	1985	15 -17	1		2018	\$0 \$2,0 \$0 \$1	000 \$0	\$0	\$0 \$0	\$33,000 \$118,400	\$0	\$0	\$0 \$0	\$2,000
75 Subtotal	D - Services D - Services - HVAC	D30 - HVAC	and Packaged Units	D3068 - Building Automation		Baseboard heaters, of varying capacities, are installed in the staff office area Building includes an internet based BMS that interconnects all the local T-	No deficiencies were observed or noted during the assessment. Condition Narrative	4 - Poor 2 - Good	Functionality - Termperature Control Energy	Lifecycle Replacement 4 Lifecycle Replacement 33000 ervices - Fire Protection	each o sq.ft.	\$500 \$2,000 \$1 \$33,000	1985	15 -17	1 6		2018 2023 \$4	\$0 \$2,0 \$0 \$1 \$0,500 \$85,	000 \$0 60 \$0 ,000 \$0	\$0	\$0 \$0 \$0	\$33,000	\$0 \$0 \$0	\$0	\$0 \$0	\$2,000 \$33,000
75 Subtotal	D - Services D - Services - HVAC	D30 - HVAC	and Packaged Units D3080 - HVAC Instrumentation and Controls	D3068 - Building Automation Systems		Baseboard heaters, of varying capacities, are installed in the staff office area Building includes an internet based BMS that interconnects all the local T- stats. The system is manufactured by Reliable.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room closes materials are stored too close to the sprinkler heads. As part of maintenance and good housing leveling the stored materials should be	4 - Poor 2 - Good	Functionality - Termperature Control Energy	Lifecycle Replacement 4 Lifecycle Replacement 33000 ervices - Fire Protection	each o sq.ft.	\$500 \$2,000 \$1 \$33,000	1985	15 -17 15 3	Jeeful Life Recommendation	Timing Photo No. E	2018 2023 \$4 vent Year	\$0 \$2,0 \$0 \$1 \$0,500 \$85,	000 \$0 00 \$0 ,000 \$0	\$0 \$0 \$100,000	\$0 \$0 \$0 2021 2	\$33,000 \$118,400 Event Year	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$2,000 \$33,000 \$343,900
75 Subtotal -	D - Services D - Services - HVAC Discipline Iniformat Level 1 D - Services	D30 - HVAC	and Packaged Units D3060 - HVAC Instrumentation and Controls Uniformat Level 3 D4010 - Sprinklers	D3068 - Building Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply		Baseboard heaters, of varying capacities, are installed in the staff office area Building includes an informer based BMS that inforcomencts all the local T- stats. The system in manufactured by Relation Component Narrative Facility is serviced by a west sprinker systems. Sprinker tree is located in the Mechanical Room.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room closes that materials are stored too close to the sprinkler heads. As part of maintenance and good housing keeping the stored materials should be removed/relocated to provide required clearances. The replacement cost of the fire estignates falls below the threshold value of this	4 - Poor 2 - Good Urgency Rating	Functionality - Termperature Control Energy D - Se Deficiency Category Life Safety Code Compliance Life Safety Code	Lifecycle Replacement 4 Lifecycle Replacement 33000 ervices - Fire Protection Recommendation Type Quantit	each sq.ft.	\$500 \$2,000 \$1 \$33,000 e Unit Cost Total Cost \$5 \$148,500	1985 2005 Installation Date Ex	15 -17 15 3 Expected Useful Life Remaining U	1 6 Superful Life Recommendation 8	Timing Photo No. E	2018 2023 \$4 vent Year 2025	\$0 \$2,0 \$0 \$1 \$0,500 \$85, 2017 20 \$0 \$1	000 \$0 00 \$0 ,000 \$0 118 201	\$0 \$0 \$100,000 9 2020 \$0	\$0 \$0 \$0 2021 2	\$33,000 \$118,400 Event Year 2022 - 2026	\$0 \$0 \$0 2027 - 2031	\$0 \$0 \$0	\$0 \$0 \$0 2037 - 2041	\$2,000 \$33,000 \$343,900 Total
75 Subtotal - Rec # L 76	D - Services - HVAC Discipline Iniformat Level 1 D - Services	D30 - HVAC C Uniformat Level 2 D40 - Fire Protection Systems	and Packaged Units D3080 - HVAC Instrumentation and Controls Uniformat Level 3 D4010 - Sprinklers 24030 - Fire Protection Speciallies D4090 - Other Fire Protection	D3068 - Building Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply	Component Type	Baseboard heaters, of varying capacities, are installed in the stall office area Building includes an internet based BMS that interconnects all the local T- stats. The system is manufactured by Relabile. Component Narrative Facility is serviced by a wet spirisher system. Spirisher tree is located in the Machanical Room.	No deficiencies were observed or noted during the assessment. Condition Number Condition Number In some exent room diseas materials on breadytes done to the sprinter heads. As part of mantenance and good housing keeping the stored materials should be removed/reduced to provide regarded for service size.	4 - Poor 2 - Good Urgency Rating 2 - Good	Functionality - Termperature Control Energy D - Se Deficiency Category Life Safety Code Compliance Life Safety Code Compliance Life Safety Code Life Safety Code	Lifecycle Replacement 4 Lifecycle Replacement 33000 ervices - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000	each sq.ft.	\$500 \$2,000 \$1 \$33,000 to Unit Cost Total Cost	1985 2005 Enstallation Date En 1985 2017	15 -17 15 3 Expected Useful Life Remaining U 40 8	Jeeful Life Recommendation 8	Timing Photo No. E	2018 2023 \$4 vent Year 2025 2027	\$0 \$2,0 \$0 \$1,0 \$0,500 \$85, 2017 2017 \$0 \$1	000 \$0 00 \$0 ,000 \$0 118 201: 50 \$0	\$0 \$0 \$100,000 9 2020 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$33,000 \$118,400 Event Year 022 - 2026 \$148,500 \$0	\$0 \$0 \$0 \$0 2027 - 2031 \$0	\$0 \$0 \$0 2032 - 2036 \$0	\$0 \$0 \$0 2037 - 2041	\$2,000 \$33,000 \$343,900 Total \$148,500
75 Subtotal - Rec # L 76 77 78 Subtotal -	D - Services D - Services - HVAC Discipline Iniformat Level 1 D - Services D - Services D - Services D - Services	D30 - HVAC C Uniformat Level 2 D40 - Fire Protection Systems D40 - Fire Protection Systems D40 - Fire Protection Systems	and Packaged Units D3060 - HVAC Instrumentation and Controls Uniformat Level 3 D4010 - Sprinklers A4030 - Fire Protection Specialties	D3068 - Building Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply D4031 - Fire Extinguishers	Component Type	Baseboard heaters, of varying capacities, are installed in the stall office area Building includes an internet based BMS that interconnects at the local T- stats. The system is manufactured by Relabile. Component Narrative Facility is serviced by a wet sprinker system. Sprinker tree is located in the Mechanical Room. Fire extinguishments are installed at designated location in the building. They are impacted annually are related as designated location in the building. They are impacted annually are related as designated location in the building.	No deficiencies were observed or noted during the assessment. Condition Narrative In some exect room disease mislessis are stood for close to the sprintler heads. As part of mantenance and good receives the receive to room of the control of the	4 - Poor 2 - Good Urgency Rating 2 - Good 2 - Good	Functionality - Termperature Control Energy D - Se Deficiency Category Life Safety Code Compliance Life Safety Code Compliance Life Safety Code Compliance Compliance	Lifecycle Replacement 4 Lifecycle Replacement 33000 Invices - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement Lifecycle Replacement Lifecycle Replacement 1	each sq.ft. ty Unit of Measur sq.ft.	\$500 \$2,000 \$1 \$33,000 e Unit Cost Total Cost \$5 \$148,500	1985 2005 Enstallation Date En 1985 2017	15 -17 15 3 Expected Useful Life Remaining U 40 8 10 10 10	Jaeful Life Recommendation 8	Timing Photo No. E	2018 2023 \$4 vent Year 2025 2027 2030	\$0 \$2,0 \$0 \$1,0 \$0,500 \$85, 2017 20: \$0 \$1 \$0 \$1	000 \$0 00 \$0 000 \$0 118 201: 10 \$0 10 \$0 10 \$0	\$0 \$0 \$100,000 9 2020 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$33,000 \$118,400 Event Year 022 - 2026 \$148,500 \$0 \$0	\$0 \$0 \$0 \$0 2027 - 2031 \$0 \$0	\$0 \$0 \$0 \$0 2032 - 2036 \$0 \$0	\$0 \$0 \$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0	\$2,000 \$33,000 \$343,900 Total \$148,500
75 Subtotal - Rec # L 76 77 78 Subtotal -	D - Services - HVAC Discipline Iniformat Level 1 D - Services - Fire P Discipline	D30 - HVAC C Uniformat Level 2 D40 - Fire Protection Systems D40 - Fire Protection Systems D40 - Fire Protection Systems Protection	and Packaged Units D3060 - HYAC Insumeration and Cortrols Uniformat Level 3 Uniformat Level 3 M4030 - Fire Protection Specialities D4030 - Fire Protection Specialities Systems	D3066 - Building Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply D4031 - Fire Extinguishers D4095 - Hood & Duct Fire Protection	Component Type	Baseboard heaters, of varying capacities, are installed in the stall office area Building includes an internet based BMS that interconnects all the local T- stats. The system is manufactured by Relabile. Component Narrative Facility is serviced by a wet sprinker system. Sprinker tree is located in the Mechanical Room. Fire editingularities are installed at designated location in the building. They are inspected annual replaced are replaced. Commercial kitchen hood fire suppression system.	No deficiencies were observed or noted during the assessment. Condition Narrative In some exect room disease mislessis are stood for close to the sprintler heads. As part of manetenance and good receives the receive to room disease to the control of manetenance and good received received received by noted regular diseases. In the presidence of the fire extinguishers falls below the threshold value of this assessment.	4 - Poor 2 - Good Urgency Rating 2 - Good 2 - Good 3 - Good	Functionality - Temperature Control Energy D - Se Deficiency Category Life Safety Code Compliance Life Safety Code Compliance Life Safety Code Compliance Life Safety Code Compliance D -	Lifecycle Replacement 4 Lifecycle Replacement 33000 rn/ces - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1 Lifecycle Replacement 1 Services - Electrical	each sq.ft. ty Unit of Measur sq.ft. each	\$500 \$2,000 \$1 \$33,000 e Unit Cost Total Cost \$5 \$148,500 \$5,000 \$5,000	1985 2005 Installation Date E: 1985 2017 2010	15 177 15 3 Expected Useful Life Remaining U 40 8 10 10 10	Jueful Life Recommendation 8 8 10 13	Timing Photo No. E	2018 2023 \$4 vent Year 2025 2027 2030	\$0 \$2,0 \$0 \$1,0 \$0,500 \$85, \$0 \$0,500 \$1,0 \$0 \$0 \$1,0 \$0 \$1,0	0000 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0	\$0 \$0 \$100,000 \$ \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 2021 2 \$0 ::	\$33,000 \$118,400 Event Year 022 - 2026 \$148,500 \$0 \$148,500 Event Year	\$0 \$0 \$0 \$0 2027 - 2031 \$0 \$0 \$5,000	\$0 \$0 \$0 \$0 2032 - 2036 \$0 \$0	\$0 \$0 \$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0	\$2,000 \$33,000 \$343,900 Total \$148,500 \$0 \$5,000
75 Subtotal	D - Services D - Services - HVAC Discipline Iniformat Level 1 D - Services D - Services D - Services D - Services	D30 - HVAC C Uniformat Level 2 D40 - Fire Protection Systems D40 - Fire Protection Systems D40 - Fire Protection Systems	and Packaged Units D3060 - HVAC Insumeration and Controls Uniformat Level 3 D4010 - Sprinkfers M4030 - Fire Protection Specialities D4090 - Other Fire Protection Systems Uniformat Level 3 D5010 - Electrical Service and	D3068 - Bulleting Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply D4031 - Fire Extinguishers D4096 - Hood & Duck Fire Protection Uniformat Level 4 D5012 - Low Tension Service &	Component Type Component Type Component Type D5012 - Main Switchgear	Baseboard heaters, of varying capacities, are installed in the stall office area Building includes an internet based BMS that interconnects all the local T- stats. The system is manufactured by Reliable. Component Narrative Facility is serviced by a wet sprinker system. Sprinker tree is located in the Mechanical Room. Fire editing is serviced by a wet sprinker system. Sprinker tree is located in the Mechanical Room. Fire editing in the sprinker system is considered to the Mechanical Room. Fire expression are installed at designated location in the building. They are mentioned in the building in the Mechanical Room. Component Narrative Building service is a 208V/3PR, 800A correction. Main switchboard is a	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room does materials are stored too close to the sprinker heads. As email of materials are stored too close to the sprinker heads. As email of materials are stored to close to the sprinker heads. As emanworder docuded to provide require diseasement. The replacement cost of the fire estinguishers falls below the threshold value of this assessment. No deficiencies were observed or noted during the assessment.	4 - Poor 2 - Good Urgency Rating 2 - Good 2 - Good 3 - Good	Functionality - Temperature Control Energy D - Se Deficiency Category Life Safety Code Compliance Life Safety Code Compliance Life Safety Code Compliance Life Safety Code Compliance D -	Lifecycle Replacement 4 Lifecycle Replacement 33000 Invices - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement Lifecycle Replacement Lifecycle Replacement 1	each sq.ft. ty Unit of Measur sq.ft. each	\$500 \$2,000 \$1 \$33,000 e Unit Cost Total Cost \$5 \$148,500 \$5,000 \$5,000	1985 2005 Installation Date E: 1985 2017 2010	15 177 15 3 Expected Useful Life Remaining U 40 8 10 10 10	1 6	Timing Photo No. E	2018 2023 S4 vent Year 2 2025 2027 2030 vent Year 2	\$0 \$2,0 \$0 \$1,0 \$0 \$1,0 \$0,500 \$85, \$0 \$1,0 \$0	000 \$0 00 \$0 00 \$0 118 2011 00 \$0 00 \$0 10 \$0	\$0 \$0 \$100,000 \$ 2020 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$33,000 \$118,400 Event Year 022 - 2026 \$148,500 \$0 \$148,500 Event Year	\$0 \$0 \$0 \$0 2027 - 2031 \$0 \$0 \$5,000	\$0 \$0 \$0 \$0 2032 - 2036 \$0 \$0 \$0	\$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,900 Total \$148,500 \$0 \$5,000
75 Subtotal - 1 Rec # L 76 77 78 Subtotal - 1 Rec # L 79	D - Services D - Services - HVAC Discipline Initiornat Level 1 D - Services Initiornat Level 1 D - Services	D30 - HVAC G Uniformat Level 2 D40 - Fre Protection Systems D40 - Fre Protection Systems D40 - Fre Protection Systems Uniformat Level 2 D50 - Electrical Systems	and Packaged Units D3060 - HVAC insumeration and Controls Uniformat Level 3 D4010 - Sprinklers D4010 - Sprinklers D4030 - Other Fire Protection Systems Uniformat Level 3 D5010 - Eventual Service and D5010 - Eventual Service and	D3068 - Bulding Automation Systems Uniformat Level 4 D4011 - Sprinker Water Supply D4031 - Fire Extinguishers D4095 - Hood & Duct Fire Protection Uniformat Level 4 Uniformat Level 6	Component Type Component Type Component Type DS012 - Main Switchgear	Baseboard heaters, of varying capacities, are installed in the stall office area Building includes an internet based BMS that indeconnects all the local T- stalls. The system is manufactured by Relability Component Narrative Facility is serviced by a vest sprinter system. Sprinter tree is located in the Machanical Room. For edifficialities are installed at delagisated location in the building. They are specied annually and registed as required. Commencial kitchen hood for suppression system.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room closes materials are stored too close to the sprinder heads. As part of maintenance and good housing legging the stored to the standards should be accessed indicated to provide required classratives. As a contractive of the standards are stored to provide required classratives. As a season of the standard of the fire entire part of classratives. As a season of the standard of the season of the standards are seasoned. No deficiencies were observed or noted during the assessment. Some panels have a substantial amount of items stored around or in foot of them.	4 - Poor 2 - Good Urgency Rating 2 - Good 3 - Good Urgency Rating 2 - Good	Functionality Termperature Control Energy D - Se Deficiency Category Life Safety Code Compliance Life Safety Code Compliance Life Safety Code Compliance Life Safety Code Compliance Deficiency Category Building Integrity	Lifecycle Replacement 4 Lifecycle Replacement 33000 Lifecycle Replacement 33000 Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1 Lifecycle Replacement 1 Services - Electrical Recommendation Type Quantit Lifecycle Replacement 1	each y Unit of Measur each ty Unit of Measur each	S500 \$2,000 S1 \$33,000 S1 \$33,000 Unit Cost Total Cost S5 \$148,500 S5,000 \$5,000 Unit Cost Total Cost S60,000 \$60,000	1985 2005 Installation Date E. 1985 2017 2010 Installation Date E. 1985	15 177 15 3 Expected Useful Life Remaining U 40 8 10 10 10 20 13 Expected Useful Life Remaining U 40 8	1 6	Timing Photo No. E	2018 2023 54 2023 2025 2027 2030 2025 2025 2025 2025 2025 2025 2025	\$0 \$2,0 \$2,0 \$30 \$40,500 \$85,0 \$40,500 \$85,0 \$40,500 \$85,0 \$40,500 \$40	0000 \$0 0000 \$0 0000 \$0 0000 \$0 0118 2011 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0	\$0 \$100,000 \$100,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$33,000 \$118,400 Event Year 022 - 2026 \$148,500 \$0 \$148,500 \$148,500 Event Year 022 - 2028 \$60,000	\$0 \$0 \$0 \$0 2027 - 2031 \$0 \$5,000 \$5,000 \$5,000	\$0 \$0 \$0 2032 - 2036 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,900 Total \$148,500 \$0 \$5,000 \$153,500 Total \$60,000
75 Subtotal - 1 Rec # L 76 77 78 Subtotal - 1 Rec # L 79	D - Services - HVAC Discipline Iniformat Level 1 D - Services - Fire F Discipline Iniformat Level 1	DS0 - HVAC C Uniformat Level 2 D40 - Fire Protection Systems D40 - Fire Protection Systems D40 - Fire Protection Systems Protection Uniformat Level 2	and Packaged Units D3060 - HVAC Insumeration and Controls Uniformat Level 3 D4010 - Sprinkfers M4030 - Fire Protection Specialities D4090 - Other Fire Protection Systems Uniformat Level 3 D5010 - Electrical Service and	D3068 - Bulleting Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply D4031 - Fire Extinguishers D4096 - Hood & Duck Fire Protection Uniformat Level 4 D5012 - Low Tension Service &	Component Type Component Type Component Type D5012 - Main Switchgear	Baseboard heaters, of varying capacities, are installed in the stall office area Bullsting includes an internet based BMS that interconnects all the local Tr- stats. The system is manufactured by Relater Component Narrative Facility is serviced by a west sprinkler system. Sprinkler tree is located in the Machinical Phone. Fire obligations are installed at designated location in the building. They are suspected arrawisely and replaced are required. Commercial kitchen hood fire suppression system. Component Narrative Suiting service is a 208V/SIP, 800A connection. Main switchboard is a Federal Polocer 31 Seise.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room closels malarinis was stored too close to the sprinker heads. As part of maintenance and policition provide required debarrance. In the replacement cost of the fire extingualment falls below the threshold value of this adesastance. The replacement cost of the fire extingualment falls below the threshold value of this adesastance. No deficiencies were observed or noted during the assessment. Condition Narrative No deficiencies were observed or noted during the assessment. Some planels have a substantial amount of items stored around or in front of them importing sales access.	4 - Poor 2 - Good Urgency Rating 2 - Good 2 - Good 3 - Good	Functionality Temperature Control Energy D - Se Deficiency Category Life Safely Code Compliance	Lifecycle Replacement 4 Lifecycle Replacement 33000 Invices - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1 Lifecycle Replacement 1 Services - Electrical Recommendation Type Quantit	each sq.ft. ty Unit of Measur sq.ft. each	\$500 \$2,000 \$2,000 \$1 \$33,000 \$2,000 \$5 \$148,500 \$5,000 \$5	1985 2005 Installation Date E: 1985 2017 2010	15 -177 15 3 ***Expected Useful Life Remaining U 40 8 10 10 10 20 13 **Expected Useful Life Remaining U	1 6	Timing Photo No. E	2018 2023 54 2023 2025 2027 2030 2025 2025 2025 2025 2025 2025 2025	\$0 \$2,0 \$0 \$1,0 \$0 \$1,0 \$0,500 \$85, \$0 \$1,0 \$0	0000 \$0 0000 \$0 0000 \$0 0000 \$0 0118 2011 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0 00 \$0	\$0 \$100,000 \$100,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$33,000 \$118,400 Event Year 0022 - 2026 \$148,500 \$0 \$148,500 Event Year 0022 - 2026	\$0 \$0 \$0 \$0 2027 - 2031 \$0 \$5,000 \$5,000	\$0 \$0 \$0 2032 - 2036 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,900 Total \$148,500 \$5,000 \$153,500
75 Subtotal - Rec # L 76 77 78 Subtotal - Rec # L 79	D - Services D - Services - HVAC Discipline Initiornat Level 1 D - Services Initiornat Level 1 D - Services	D30 - HVAC G Uniformat Level 2 D40 - Fre Protection Systems D40 - Fre Protection Systems D40 - Fre Protection Systems Uniformat Level 2 D50 - Electrical Systems	and Packaged Units D3060 - HVAC insumeration and Controls Uniformat Level 3 D4010 - Sprinklers 4030 - Fire Protection Speciation D4030 - Pier Protection Speciation Uniformat Level 3 D5010 - Electrical Service and D5010 - Electrical Service and	D3068 - Budding Automation Systems Uniformat Level 4 D4011 - Sprinkter Water Supply D4031 - Fire Extinguishers D4095 - Hood & Duct Fire Protection Uniformat Level 4 D5012 - Low Tenson Service & Dat. D5012 - Low Tenson Service & D5013 - Low Tenson Service & D5014 - Low Tenson Service & D5015 - Low T	Component Type Component Type Component Type D5012 - Main Switchgear	Baseboard heaters, of varying capacites, are installed in the stall office area Building includes an internet based BMS that interconnects all the local T- stals. The system is manufactured by Relable. Component Narrative Facility is serviced by a west sprinkler system. Sprinkler tree is located in the Mechanical Room. Fire extinguishers are installed at designated location in the building. They at inspected annually and replaced as required. Commercial kitchen hood fire suppression system. Component Narrative Building service is a 200V/3Ph, 800A connection. Main switchboard is a Sub-panels are located around the facility. Facility wiring is a combination of concealed wiring and exposed conduit.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room closes materials are stored too does to the sprinkler heads. As and of maintenance and good housing legally the store of maintenance and good housing legally the store of maintenance should be to the president of the store of t	4 - Poor 2 - Good Urgency Rating 2 - Good 3 - Good Urgency Rating 2 - Good	Functionality Termperature Control Energy D - Se Deficiency Category Life Safety Code Compliance Life Safety Code Compliance Life Safety Code Compliance Life Safety Code Compliance Deficiency Category Building Integrity	Lifecycle Replacement 4 Lifecycle Replacement 33000 Lifecycle Replacement 33000 Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1 Lifecycle Replacement 1 Services - Electrical Recommendation Type Quantit Lifecycle Replacement 1	each y Unit of Measur sq.ft. each ty Unit of Measur sq.ft. each each	S500 \$2,000 S1 \$33,000 S1 \$33,000 Unit Cost Total Cost S5 \$148,500 S5,000 \$5,000 Unit Cost Total Cost S60,000 \$60,000	1985 2005 Enstallation Date E1 1985 2017 2010 Enstallation Date E1 1985 1985	15 177 15 3 Expected Useful Life Remaining U 40 8 10 10 10 20 13 Expected Useful Life Remaining U 40 8	Justful Life Recommendation 8 10 13 Justful Life Recommendation 8 8 8	Triming Photo No. E 37 38 Triming Photo No. E	2018 2023 \$4 vent Year 2 2025 2027 2030 2025 2025 2025	\$0 \$2,0 \$2,0 \$30 \$40,500 \$85,0 \$40,500 \$85,0 \$40,500 \$85,0 \$40,500 \$40	0000 \$0 0	\$0 \$0 \$0 \$100,000 \$100,000 \$0 \$2020 \$0 \$0 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33,000 \$118,400 Event Year 022 - 2026 \$148,500 \$0 \$148,500 \$148,500 Event Year 022 - 2028 \$60,000	\$0 \$0 \$0 \$0 2027 - 2031 \$0 \$5,000 \$5,000 \$5,000	\$0 \$0 \$0 2032 - 2036 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,900 Total \$148,500 \$0 \$5,000 \$153,500 Total \$60,000
75 Subtotal - Rec # L 76 77 78 Subtotal - 1 Rec # L 79 80 81	D - Services D - Services - HVAC Discipline Initiormat Level 1 D - Services - Fire F Discipline D - Services - Fire F D - Services D - Services - Fire F D - Services D - Services	D30 - HVAC C Uniformat Level 2 D40 - Fre Protection Systems D40 - Fre Protection Systems Protection Systems Uniformat Level 2 D50 - Bectrical Systems D50 - Bectrical Systems	and Packaged Units D366 - HVAC insumeration and Controls Uniformat Level 3 D4010 - Sprinklers D4010 - Sprinklers D4030 - Fire Protection Specialities D4030 - Fire Protection Specialities Uniformat Level 3 D5010 - Electrical Service and Dathfolion D5010 - Electrical Service and Dathfolion D5010 - Electrical Service and D6010 - Electrical Service and D6010 - Electrical Service and	D3068 - Bulding Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply D4031 - Fire Extinguishers D4095 - Hood & Duck Fire Protection Uniformat Level 4 D5012 - Low Tension Service & D8512 - Low Tension Service & D8512 - Low Tension Service &	Component Type Component Type Component Type D5012 - Main Switchgear	Baseboard heaters, of varying capacities, are installed in the stall office area Building includes an internet based BMS that indeconnects all the local T- stals. The system is manufactured by Relability of the stall of the s	No deficiencies were observed or noted during the assessment. Condition Marrative In some event room closels malarinis, was stored too chose to the sprinder heads, As part of maintenance and provide required closerances. In some event room closels malarinis was stored too chose to the sprinder heads, As part of maintenance and provide required closerances. The replacement cost of the fire extingualment falls below the threshold value of this assessment. No deficiencies were observed or noted during the assessment. Condition Narrative No deficiencies were observed or noted during the assessment. Some panels have a substantiell amount of flems stored around or in flort of them impeding sale access. Materials meeting to be stored should be relocated to more appropriate locations. No deficiencies were observed or noted during the assessment.	4 - Poor 2 - Good Urgency Rating 2 - Good 2 - Good 3 - Good Urgency Rating 2 - Good	Functionally - Temperature Control Energy D - Se Deficiency Category Life Safely Code Compliance Life Safely Code Compliance Life Safely Code Compliance Deficiency Category Building Integrity Building Integrity Building Integrity	Lifecycle Replacement 4 Lifecycle Replacement 33000 rvices - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 13000 Lifecycle Replacement 1 Services - Electrical Recommendation Type Quantit Lifecycle Replacement 1 Lifecycle Replacement 6 Lifecycle Replacement 6	each y Unit of Measur sq.ft. each ty Unit of Measur sq.ft. each each	\$500 \$2,000 \$1 \$33,000 \$1 \$33,000 \$5 \$148,500 \$5 \$148,500 \$5,000 \$5,000 \$60,000 \$56,000 \$60,000 \$36,000	1985 2005 Enstallation Date E1 1985 2017 2010 Enstallation Date E1 1985 1985	15 -177 15 3 Expected Useful Life Remaining U 40 0 10 10 20 13 Expected Useful Life Remaining U 40 8	Justful Life Recommendation B 10 13 Justful Life Recommendation 8 8 8	Triming Photo No. E 37 38 Triming Photo No. E	2018 2023 \$4 2023 \$4 vent Year 2 2025 2027 2030 2025 2025 2025 2025 2025	\$0 \$2,6 \$3 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4	0000 \$0 0	S0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33,000 \$118,400 Event Year 1222 - 2026 \$148,500 \$0 \$148,500 Event Year 1222 - 2026 \$60,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 2032 - 2036 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,900 Total \$148,500 \$0 \$5,000 Total \$60,000
75 Subtotal Rec # L 76 77 78 Subtotal Rec # L 79 80	D - Services D - Services - HVAC Discipline Initiormat Level 1 D - Services	D30 - HVAC G Uniformat Levet 2 D40 - Fire Protection Systems D40 - Fire Protection Systems D40 - Fire Protection Systems Protection Uniformat Levet 2 D50 - Electrical Systems D50 - Electrical Systems D50 - Electrical Systems	and Packaged Units D3060 - HVAC insumeration and Controls Uniformat Lavel 3 D4010 - Sprinklers D4030 - Fire Protection Speciation D4030 - Fire Protection Speciation D4030 - Fire Protection Speciation System Uniformat Lavel 3 D5010 - Electrical Service and D6010 - Electrical Service and	D3068 - Bullering Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply D4031 - Fire Extinguishers D4096 - Hood & Duct Fire Protection Uniformat Level 4 D5012 - Low Tension Service & Dist. D5012 - Low Tension Service & Dist. D5012 - Low Tension Service & Dist. D5021 - Barach Wiring Devices	Component Type Component Type Component Type D5012 - Main Switchgear	Baseboard heaters, of varying capacities, are installed in the stall office area Bullding includes an internet based BMS that interconnects all the local T- stalls. The system is manufactured by Relative Component Narrative Facility is serviced by a wet sprinker system. Sprinkfer tree is located in the Machinical Room. Fire extinguishes are installed at designated location in the building. They are supposed arravally and replaced are required. Commercial kitchen hood fire suppression system. Component Narrative Building service is a 208V/SIP, BOA connection. Main switchboard is a Federal Procers of Series. Sub panels are located around the facility. Facility wiring is a combination of conceased wiring and exposed conduit. Exterior lighting are weather sealed halde lights and local recessed spot ligh to the main entrance area.	No deficiencies were observed or noted during the assessment. Condition Narrative In some exent room dozet materials on Receiptor, close to the sprinter heads. As part of mantenance and good housing keeping the stored materials should be removedering the provide regard clearances. The replacement cost of the fire estinguishers falls below the threshold value of this assessment. Ro deficiencies were observed or noted during the assessment. Condition Narrative No deficiencies were observed or noted during the assessment. Some panels have a substantial amount of items stored around or in front of them impeding safe assessment. Materials needing to be stored should be relected the more appropriate locations. No deficiencies were observed or noted during the assessment.	4 - Poor 2 - Good Urgency Rating 2 - Good 3 - Good 3 - Good 2 - Good 3 - Good	Functionally - Temperature Control Energy D - Se Deficiency Category Life Sately Code Compliance Life Sately Code Compliance Life Sately Code Compliance D - Deficiency Category Building Integrity Building Integrity Functionality - Lighting Functionality - Lighting Functionality - Lighting	Lifecycle Replacement 4 Lifecycle Replacement 33000 proces - Fire Protection Recommendation Type Quantit Lifecycle Replacement 3300 Lifecycle Replacement 1 Lifecycle Replacement 1 Services - Electrical Recommendation Type Quantit Lifecycle Replacement 1 Lifecycle Replacement 1 Lifecycle Replacement 1 Lifecycle Replacement 33000 Lifecycle Replacement 6 Lifecycle Replacement 1 Lifecycle	each sq.ft. y Unit of Measur sq.ft. each ty Unit of Measur each sq.ft. sq.ft.	e Unit Cost Total Cost S60,000 \$30,000 \$60,000 \$36,000 \$515 \$478,500	1985 2005 Installation Date E: 1985 2017 2010 Installation Date E: 1985 1985 1985 1985	15 -177 15 3 Expected Useful Life Remaining U 40 8 10 10 10 20 13 Expected Useful Life Remaining U 40 8 40 8	1 6 6 6 6 6 6 6 6 6	Timing Photo No. E	2018 2023 S4 Event Year 2025 2027 2030 2025 2025 2025 2019	\$0 \$2,6,0 \$1,0 \$2,6,0 \$1,0 \$1,0 \$1,0 \$1,0 \$1,0 \$1,0 \$1,0 \$1	0000 \$0 0	S0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33,000 \$118,400 Event Year 022 - 2026 \$148,500 \$0 \$148,500 Event Year 022 - 2028 \$0 \$30 \$3448,500 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 2032 - 2036 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,900 Total \$148,500 \$5,000 \$153,500 Total \$60,000 \$38,000 \$38,000
75 Subtotal - Rec # L 76 77 78 Subtotal - 1 Rec # L 79 80 81 82 83	D - Services D - Services - HVAC D - Services - HVAC D - Services - HVAC D - Services - Fire F D - Services	D30 - HVAC C Uniformat Level 2 D40 - Fire Protection Systems D40 - Fire Protection Systems Protection Systems D40 - Fire Protection Systems D50 - Electrical Systems	and Packaged Units D3060 - HVAC insumeration and Controls Uniformat Level 3 D4010 - Sprinklers 4030 - Fire Protection Specialities D4030 - Other Fire Protection Systems Uniformat Level 3 D5010 - Electrical Service and Databolion D5010 - Electrical Service and Destrolution D5010 - Electrical Service and D6010 - Electrical Service and D	D3068 - Budding Automation Systems Uniformat Level 4 D4011 - Sysrakler Water Supply D4031 - Fire Extinguishers D4006 - Hood & Duct Fire Protector Uniformat Level 4 D5012 - Low Tension Service & D5012 - Low Tens	Component Type Component Type Component Type D5012 - Main Switchgear	Baseboard heaters, of varying capacities, are installed in the staff office area Building includes an internet based BMS that interconnects all the local T- stats. The system is manufactured by Related. Component Narrative Facility is serviced by an expriside system. Sprinkler tree is located in the Machanical Room. Fire odinguishers are installed at designated location in the building. They are respected annually and replaced as required. Commercial kitchen hood fire suppression system. Component Narrative Subting service is a 2007/SPR, 800A connection. Main switchboard is a Facility wiring is a combination of concealed wiring and exposed conduit. Extenor lighting his or considerative are Extenor lighting are weather sealed halds lights and local recessed spot ligh in the main entrance area. Interviring this in tection, common and gymnasium areas is a combination of suppressed and 1 the mounted fluorescent light finance.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room dozets miletens are stored to close to the sprinker heads. As enter diseasement and go materials are stored to close to the sprinker heads. As enter diseasement and go materials are stored to close to the sprinker heads. As enter desired to provide required clearance. The replacement cost of the fire destinguishers falls below the threshold value of this assessment. No deficiencies were observed or noted during the assessment. Condition Narrative No deficiencies were observed or noted during the assessment. Materials needing to be stored should be relocated to more appropriate locations. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment.	4 - Poor 2 - Good Urgency Rating 2 - Good 3 - Good Urgency Rating 2 - Good 3 - Good 2 - Good 3 - Good 3 - Fair	Functionally - Temperature Control Energy D - Se Deficiency Category Life Safety Code Compliance Life Safety Code Compliance D - Se Deficiency Category Building Integrity Building Integrity Building Integrity - Lighting Functionality - Lighting Life Safety Code Compliance	Lifecycle Replacement 4 Lifecycle Replacement 33000 proces - Fire Protection Recommendation Type Quantit Lifecycle Replacement 3300 Lifecycle Replacement 1 Lifecycle Replacement 1 Services - Electrical Recommendation Type Quantit Lifecycle Replacement 1 Lifecycle Replacement 1 Lifecycle Replacement 1 Lifecycle Replacement 33000 Lifecycle Replacement 6 Lifecycle Replacement 1 Lifecycle	each sq.ft. y Unit of Measure each each each sq.ft. unit(s)	S500 \$2,000	1985 2005 Installation Date E 1985 2017 2010 Installation Date E 1985 198	15	1 6 6 6 6 6 6 6 6 6	Timing Photo No. E	2018 2023 34 2025 2025 2025 2030 2030 2030 2030 2030 34 2025 2025 2025 2025 2025 2030 2030 2030 2030 2030 35 35 35 35 35 35 35	\$0 \$2.6 \$1,000 \$20.0 \$20	0000 \$0 0	S0 S0 S100,000 S100,000 S0 S0 S0 S0 S0 S0 S	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$33,000 \$118,400 Event Yeer 022 - 2026 \$148,500 \$0 \$148,500 Event Year 022 - 2026 \$50,000 \$50,000 \$50,000 \$50,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 2632 - 2636 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$9 2037 - 2041 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,900 Total \$148,500 \$5,000 \$153,500 Total \$60,000 \$38,000 \$478,500 \$5,000
75 Subtotal Rec # L 76 77 78 Subtotal Rec # L 79 80 81 82 83 84	D - Services - HVACVes - H	D30 - HVAC C Uniformat Level 2 D40 - Fire Protection Systems D40 - Fire Protection Systems D40 - Fire Protection Systems Protection Uniformat Level 2 D50 - Electrical Systems	and Packaged Units D3660 - HVAC Insumeration and Controls Uniformat Level 3 D4010 - Sprinklers M0300 - Fire Protection Speciation M0300 - Fire Protection Speciation M0300 - Fire Protection Systems M0300 - Cheer Fire Protection Systems D5010 - Electrical Service and Distribution D5010 - Electrical Service and Distribution D5010 - Electrical Service and Distribution D5010 - Lectrical Service and Distribution D5010 - Lighting and Branch Wing D5001 - Lighting and Branch Wing D5001 - Lighting and Branch	D3068 - Budding Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply D4091 - Fire Extinguishers D4096 - Hood & Duct Fire Protection Uniformat Level 4 D5012 - Low Tension Service & Dut.	Component Type Component Type Component Type D5012 - Main Switchgear	Baseboard heaters, of varying capacites, are installed in the staff office are Building includes an internet based BMS that indeconnects all the local T-stafs. The system is manufactured by Reliable. Component Narrative Facility is serviced by a west sprinker speem. Sprinker tree is located in the Machanical Room. Fire estinguishmens are installed at designated location in the building. They at impacted annually and replaced as required. Commercial kitchen hood fire suppression system. Component Narrative Suiting service is 2 2001/1976, ROOA connection. Main switchboard is a Faderal Protect 31 Series. Stop parels are located around the facility. Facility wring is a combination of conceased wiring and exposed conduit. Echosor lighting are weather sealed halded lights and local recessed spot light interior lighting the office, common and gymnasium eras is a combinator of suppression and a combinator of suppression area is a combinator of suppression area is a combinator of suppression area is a combinator of suppression areas in a combinator of suppression areas is a combinator of suppression areas in a combinator of suppression areas	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room does materials we stored to close to the sprinker heads. As emission-ensistences and grant processes to the sprinker heads and surface and some stored to close to the sprinker heads. As emission-ensistences and grant processes to the sprinker heads. As emission-ensistences and grant processes are the processes and grant pr	4 - Poor 2 - Good Urgency Rating 2 - Good 3 - Good 2 - Good 2 - Good 3 - Good 2 - Good 2 - Good 2 - Good 2 - Good 3 - Fair 2 - Good	Functionally - Lighting Integrity Building Integrity Building Integrity Building Integrity Building Integrity Building Integrity Building Integrity Functionality - Lighting Functionality - Lighting Functionality - Lighting Functionality - Lighting	Lifecycle Replacement 4 Lifecycle Replacement 33000 proces - Fine Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1 Lifecycle Replacement 1 Lifecycle Replacement 1 Lifecycle Replacement 6 Lifecycle Replacement 6 Lifecycle Replacement 1 Lifecycle Replacement 1 Lifecycle Replacement 3000 Lifecycle Replacement 1 Lifecycle Replacement 1 Lifecycle Replacement 1 Lifecycle Replacement 1 Lifecycle Replacement 10 Lifecycle Replacement 10 Lifecycle Replacement 10	each y Unit of Measur each each ty Unit of Measur each each sq.ft. unit(s) sq.ft.	S500 \$2,000	1985 2005 Installation Date E: 1985 2017 2010 Installation Date E: 1985 1985 1985 1985 1985 2000 E: 1985 E: 1985 2000 E: 1985 E: 1	15		Timing Photo No. E	2018 2023 34 2025 2025 2025 2030 2030 2030 2030 2030 34 2025 2025 2025 2025 2025 2030 2030 2030 2030 2030 35 35 35 35 35 35 35	\$0 \$2.6 \$1,000 \$20.0 \$20	0000 \$0 0	S0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33,000 \$118,400 Event Yeer 022 - 2026 \$148,500 \$0 \$148,500 Event Year 022 - 2026 \$50,000 \$50,000 \$50,000 \$50,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$2 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,500 Total \$148,500 \$5,000 \$153,500 Total \$60,000 \$478,500 \$5,000 \$5,000
75 Subtotal Rec # L 76 77 78 Subtotal Rec # L 79 80 81 82 83 84	D - Services D - Services - HYACVE Excipline Initiomat Level 1 D - Services	D30 - HVAC C Uniformat Level 2 D40 - Fire Protection Systems D50 - Electrical Systems	and Packaged Units D3660 - HVAC insumeration and Controls Uniformat Level 3 D4010 - Sprinklers D4030 - Fire Protection Specialities D4030 - Fire Protection Specialities D4030 - Fire Protection Specialities D4030 - Series Protection Systems Uniformat Level 3 D5010 - Electrical Service and Delitholdon D5010 - Electrical Service and D6000 - Uniformation D5000 - Lighting and Branch D5000 - D5000 - Lighting and Branch D5000 - D5	D3068 - Budding Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply D4031 - Fire Extinguishers D4096 - Hood & Duct Fire Protection Uniformat Level 4 D5012 - Low Tension Service & Dist. D5021 - Brandon Wiring Devices D5022 - Lighting Equipment D5022 - Lighting Equipment	Component Type Component Type Component Type D5012 - Main Switchgear	Baseboard heaters, of varying capacites, are installed in the stall office area Bailding includes an internet based BMS that interconnects all the local T-stals. The system is manufactured by Redate. Component Narrative Facility is serviced by a west sprinkler system. Sprinkler tree is located in the Mechanical Room. Fire extinguishers are installed at designated location in the building. They are impected annually and replaced as required. Commercial kitchen hood for suppression system. Component Narrative Building service is a 2059/SPR, BOA comection. Main switchboard is a Pedicial Princer's 1059/SPR, BOA commercial kitchen hood for suppression system. Capacities are board around the facility. Facility wiring is a combination of conceated wiring and exposed conduit. Exterior lighting are weather sealed hallost lights and local recessed spot light in the main entirance area. Interior lighting in the office, common and gymnasium areas is a combination lighting in the facility of lights are installed at all end doors one of light facilities. Facility is wired for phone service. Phone jacks are located throughout the Maintercolor panel is located in the main entrance.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room dozets miletens are stored to close to the sprinker heads. As enter diseasement and go materials are stored to close to the sprinker heads. As enter diseasement and go materials are stored to close to the sprinker heads. As enter desired to provide required clearance. The replacement cost of the fire destinguishers falls below the threshold value of this assessment. No deficiencies were observed or noted during the assessment. Condition Narrative No deficiencies were observed or noted during the assessment. Materials needing to be stored should be relocated to more appropriate locations. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment.	4 - Poor 2 - Good 2 - Good 3 - Good 2 - Good 3 - Fair 2 - Good 3 - Fair 3 - Good 3 -	Functionally - Lighting Integrity Building Integrity Functionality - Lighting Functionality - Lighting Life Sately Code	Lifecycle Replacement 4 Lifecycle Replacement 33000 proces - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1 Lifecycle Replacement 33000 Lifecycle Replacement 1 Lifecycle Replacement 33000 Lifecycle Replacement 33000 Lifecycle Replacement 33000 Lifecycle Replacement 33000 Lifecycle Replacement 15 Lifecycle Replacement 15 Lifecycle Replacement 15 Lifecycle Replacement 15	each sq.ft. y Unit of Measur sq.ft. each each each each sq.ft. unit(s) sq.ft. unit(s) each	S500 \$2,000	1985 2005 Installation Date E: 1985 2017 2010 Installation Date E: 1985 1985 1985 1985 1985 2000	15		Timing Photo No. E	2018 2023 \$44 2025 2025 2025 2025 2029 2030 2030 2025 2025 2025 2025 2025 2025	\$0 \$2.6 \$2.6 \$2.6 \$2.6 \$2.6 \$2.6 \$2.6 \$2.6	0000 \$0 0000 \$0 0000 \$0 0000 \$0 0000 \$0 000	SO	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33,000 Event Year Event Year 222 - 2026 \$148,500 \$0 \$148,500 \$478,500 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$2,000 \$33,000 \$343,900 Total \$148,500 \$5,000 \$5,000 \$56,000 \$36,000 \$478,500 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000
75 Subtotal Rec # L 76 77 78 Subtotal Rec # L 79 80 81 82 83 84	D - Services - HYAC No. D - Services D - Services D - Services - Fire F- D - Services - Fire F- D - Services - Fire F- D - Services	D30 - HVAC G Uniformat Level 2 D40 - Fire Protection Systems D40 - Fire Protection Systems Protection Uniformat Level 2 D50 - Fire Environ Systems D50 - Bectrical Systems	and Packaged Units D3060 - HVAC insumeration and Controls Uniformat Level 3 D4010 - Sprinklers D4030 - Fine Protection Specialises D4030 - Sprinklers Uniformat Level 3 D5010 - Sprinklers D5010 - Electrical Service and D6010 - Electrical Service and D6020 - Lighting and Branch D5020 - Lighting and Branch D5020 - Lighting and Branch D5020 - Lighting and Branch D5030 - D5030 - Communications and Security Systems	D3068 - Budding Automation Systems Uniformat Level 4 D4091 - Sprinkler Water Supply D4095 - Free Extinguishers Uniformat Level 6 D4095 - Hood & Duct Fire Protection Uniformat Level 6 D5092 - Low Tension Service 6 D810 - Low Tension Servic	Component Type Component Type Component Type D5012 - Main Switchgear	Baseboard heaters, of varying capacities, are installed in the stall office area Building includes an internet based BMS that indeconnects all the local Tristes. The system is manufactured by Relabel. Component Narrative Facility is serviced by a vest sprinkler system. Sprinkler tree is located in the Mechanical Room. The entirguishmen are installed at designated location in the building. They are inspected annually and replaced as required. Commercial kitchen hood for suppression system. Component Narrative Building service is a 2001/PMP, BOOA connection. Main switchboard is a Federal Princer's ST Series. Sub paries are bocated around the facility. Facility wiring is a combination of concealed wiring and exposed conduit. Esterior spiring are weather sealed halide lights and local recessed spot sight in the main entirance area. Interior lighting in the office, common and gymnasium areas is a combination of suppreded and "Am mounted Suppression light fluxing are installed at all end cons. Est lights are installed at all end cons. Nain Fire Alarm panel is located in the main entrance. Nain Fire Alarm panel is located in the main entrance.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room does materials we stored to close to the sprinker heads. As emission-ensistences and grant processes to the sprinker heads and surface and some stored to close to the sprinker heads. As emission-ensistences and grant processes to the sprinker heads. As emission-ensistences and grant processes are the processes and grant pr	4 - Poor 2 - Good 2 - Good 3 - Good 2 - Good	Functionally - Lighting Integrity Building Integrity Functionality - Lighting Life Sately Code Compliance D Deficiency Category Building Integrity Building Integrity Functionality - Lighting Life Sately Code Compliance Functionality - Lighting Life Sately Code Functionality - Expect Functionality - Functionality - Expect Functionality - Space	Lifecycle Replacement 4 Lifecycle Replacement 33000 Invices - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1 Services - Electrical Recommendation Type Quantit Lifecycle Replacement 1 Lifecycle Replacement 3000 Lifecycle Replacement 1500 Lifecycle Replacement 1500 Lifecycle Replacement 1500 Lifecycle Replacement 1500	each y Unit of Measur each y Unit of Measur each sq.ft. unit(s)	\$500 \$2,000 \$1 \$33,000 \$1 \$33,000 **Unit Cost** \$5 \$146,500 \$5,000 \$5,000 \$6,000 \$56,000 \$6,000 \$36,000	1985 2005 Entatlation Date E. 1985 2017 2010 Entatlation Date E. 1985 1985 1985 2000 2000 Entatlation Entatlation Date E. 1985 2000 2000 Entatlation E	15 -177 15 3 Depocted Useful Life Remaining U 40 13 20 13 Depocted Useful Life Remaining U 40 8 40 8 40 8 40 8 30 13		Timing Photo No. E	2018 2023 \$44 2025 2025 2025 2025 2029 2030 2030 2025 2025 2025 2025 2025 2025	\$0 \$2.6 \$1,000 \$20.0 \$20	0000 \$0 0000 \$0 0000 \$0 0000 \$0 0000 \$0 000	SO	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33,000 \$118,400 Event Year 2022 - 2026 \$0 \$0 \$0 \$148,500 \$0 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,900 Total \$148,500 \$0 \$5,000 \$153,500 \$60,000 \$36,000 \$478,500 \$5,000 \$5,000 \$36,000 \$36,000 \$5,000 \$
75 Subtotal 1 Rec # L 76	D - Services D - Services - HYACVE Excipline Initiomat Level 1 D - Services	D30 - HVAC C Uniformat Level 2 D40 - Fire Protection Systems D50 - Electrical Systems	and Packaged Units D3060 - HVAC insumeration and Controls Uniformat Lavel 3 D4010 - Sprinklers D4030 - Fire Protection Speciation 1000 - Fire Protection Speciation 1000 - Fire Protection Speciation 1000 - Sprinklers Uniformat Lavel 3 D5010 - Electrical Service and D5010 - Electrical Service and D61010 - Electrical Service and D61010 - Electrical Service and D6010 -	D3068 - Budding Automation Systems Uniformat Level 4 D4091 - Sprinkter Water Supply D4095 - Free Edingslahers D4095 - Hood & Duck Fire Protection Uniformat Level 4 D5092 - Low Tension Service 6 D6012 - Tension Service 6 D6013 - Fire Alarm Systems D6038 - Security and Defection	Component Type Component Type Component Type D5012 - Main Switchgear	Baseboard heaters, of varying capacites, are installed in the stall office area Bailding includes an internet based BMS that interconnects all the local T-stals. The system is manufactured by Redate. Component Narrative Facility is serviced by a west sprinkler system. Sprinkler tree is located in the Mechanical Room. Fire extinguishers are installed at designated location in the building. They are impected annually and replaced as required. Commercial kitchen hood for suppression system. Component Narrative Building service is a 2059/SPR, BOA comection. Main switchboard is a Pedicial Princer's 1059/SPR, BOA commercial kitchen hood for suppression system. Capacities are board around the facility. Facility wiring is a combination of conceated wiring and exposed conduit. Exterior lighting are weather sealed hallost lights and local recessed spot light in the main entirance area. Interior lighting in the office, common and gymnasium areas is a combination lighting in the facility of lights are installed at all end doors one of light facilities. Facility is wired for phone service. Phone jacks are located throughout the Maintercolor panel is located in the main entrance.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room does materials we stored to close to the sprinker heads. As emission-ensistences and grant processes to the sprinker heads and surface and some stored to close to the sprinker heads. As emission-ensistences and grant processes to the sprinker heads. As emission-ensistences and grant processes are the processes and grant pr	4 - Poor 2 - Good 2 - Good 3 - Good 2 - Good 3 - Fair 2 - Good 3 - Fair 3 - Good 3 -	Functionally - Temperature Control Energy D - Se Deficiency Category Life Safely Code Compliance Life Safely Code Compliance Life Safely Code Compliance D - Deficiency Category Building Integrity Building Integrity Building Integrity Functionality - Lighting Functionality - Lighting Life Safely Code Compliance Functionality - Lighting Life Safely Code Compliance Functionality Life Safely Code Compliance Life Safely Code Compliance Life Safely Code Compliance Life Safely Code Compliance	Lifecycle Replacement 4 Lifecycle Replacement 33000 proces - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1 Lifecycle Replacement 33000 Lifecycle Replacement 1 Lifecycle Replacement 33000 Lifecycle Replacement 33000 Lifecycle Replacement 33000 Lifecycle Replacement 33000 Lifecycle Replacement 15 Lifecycle Replacement 15 Lifecycle Replacement 15 Lifecycle Replacement 15	each sq.ft. y Unit of Measur sq.ft. each each each each sq.ft. unit(s) sq.ft. unit(s) each	S500 \$2,000	1985 2005 Installation Date E: 1985 2017 2010 Installation Date E: 1985 1985 1985 1985 1985 2000	15	1 6 6	Timing Photo No. E	2018 2023 S4 Vent Year 2025 2027 2030 Vent Year 2025 2025 2025 2025 2025 2030 2030 2030	\$0 \$2.0.5 \$0 \$2.0.5 \$0 \$1,000	0000 \$0 0000 \$0 0000 \$0 0000 \$0 0000 \$0 000	\$0 \$0 \$100,000 \$100,000 \$0 \$2020 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33,000 Event Year 22 - 1026 \$148,500 \$0 \$0 \$148,500 \$0 \$148,500 \$418,500 \$30 \$30 \$30 \$30 \$30 \$30 \$30	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$2,000 \$33,000 \$343,900 Total \$148,500 \$5,000 \$5,000 \$56,000 \$36,000 \$478,500 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000
75 Subtotal	D - Services - HVAC bioglopine D - Services - HVAC bioglopine D - Services	D30 - HVAC C Uniformat Level 2 D40 - Fre Protection Systems D50 - Electrical Systems	and Packaged Units D3660 - HWA Circumentation and Controls Uniformat Level 3 D4010 - Sprinklers D4010 - Sprinklers D4030 - Fire Protection Specialities D4030 - Fire Protection Specialities D4030 - Fire Protection Specialities D4030 - Fire Protection Systems Uniformat Level 3 D5010 - Electrical Service and Databation D5010 - Electrical Service and Databation D5010 - Electrical Service and Databation D5010 - Lighting and Branch Wing D5000 - Lighting and Branch Wing D5000 - Communications and Security Systems D5000 - Communications and Security Systems D5000 - Communications and Security Systems	D3068 - Budding Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply D4031 - Fire Extinguishers D4096 - Hood & Duct Fire Protection Uniformat Level 4 D5012 - Low Tension Service & Dist. D5012 - Low Tension Service & Dist. D5012 - Low Tension Service & Dist. D5021 - Burnation Service & Dist. D5022 - Lighting Equipment D5022 - Lighting Equipment D5023 - Telephone Systems D5037 - Fire Alarm Systems D5037 - Fire Alarm Systems	Component Type Component Type D5012: Main Switzspar (600, 220, 120 V)	Baseboard heaters, of vaying capacites, are installed in the staff office are Building includes an internet based BMS that interconnects all the local T- stats. The system is manufactured by Relabile. Component Narrative Facility is serviced by a west sprinkler system. Sprinkler tree is located in the Mechanical Room. Fire catinguishers are installed at designated location in the building. They at impacted annually and replaced as required. Commercial kitchen hood fire suppression system. Component Narrative Building service is a 2504/SPR, 500A connection. Main switchboard is a Study parells are located as required. Component Narrative Building service is a 2504/SPR, 500A connection. Main switchboard is a Study parells are located as required. Earlier in gringing are weather sealed haldel lights and local recessed spot figh the main entaince are. Facility wiring is a combination of conceased wiring and exposed conduit. Earlier in principle are weather sealed haldel lights and local recessed spot figh the main entaince are. Facility as weld for phone service. Phone jacks are located throughout the haldidox. Annunciator panel is located in the main entaince. Main Fire Alarm panel is located in the main entaince. Main Fire Alarm panel is located throughout the building.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room closes materies are attend too close to the sprinder heads, no part of mantenance and policies for the condition of the cond	4 - Poor 2 - Good	Functionally - Terminal - Termina	Lifecycle Replacement 4 Lifecycle Replacement 33000 Invices - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1	each sq.ft. ty Unit of Measur each sq.ft. unit(s) sq.ft. unit(s) sq.ft. unit(s) each each each	### Unit Cost Total Cost	1985 2005 Installation Date E 1985 2017 2010 Installation Date E 1985 1985 1985 1985 2000 2000 2000 2000 2000 2010 2	15	1 6 6 10	Timing Photo No. E	2018 2023 \$4 2023 \$4 2025 2027 2030 2025 2025 2025 2030 2025 2025 2025 2025 2030 2025 2025 2030 2025 2025 2025 2030 2025 2025 2025 2030 2025 2030 2025 2030 2025 2030 2025 2030 2025 2030 2025 2030 2025 2030 2025 2030 2025 2030 2025 2030 2025 2030 2025 2030 2025 2030 2025 2025 2030 2025 2025 2030 2025 2025 2030 2025 2025 2030 2025 2	\$0 \$2,20 \$35,00 \$45,00	0000 S0000 S00000 S000000	\$0 \$0 \$100,000 \$100,000 \$0 \$2020 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33,000 Event Year 22 - 2026 \$148,500 \$0 \$0 \$0 Event Year \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$5,000 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,990 Total \$148,500 \$5,000 \$153,500 Total \$60,000 \$478,500 \$297,000 \$287,000 \$150,000 \$150,000
75 Subtotal 76 77 78 Subtotal 77 78 Subtotal 9 80 80 81 82 83 84 85 86 86 87 88 88 88 88 88 88 88 88 88 88 88 88	D - Services - HVACVes D - Services - HVACVes Indipoline D - Services	D30 - HVAC C Uniformat Level 2 D40 - Fre Protection Systems D50 - Bectrical Systems	and Packaged Units D0060 - HVAC insumeration and Controls Uniformat Level 3 D4010 - Sprinklers 4030 - Fire Protection Specialties D4030 - Other Fire Protection Systems Uniformat Level 3 D5010 - Checkins Service and Dathbullon D5010 - Electrical Service and Dathbullon D5010 - Electrical Service and D6010 - Communications D6010 - Officer Service and Security Systems D5030 - Communications and Security Systems D5030 - Communications and Security Systems D5030 - Communications and Security Systems	D3068 - Building Automation Systems Uniformat Level 4 D4011 - Sprinkler Water Supply D4031 - Fire Extinguishers D4095 - Hood & Duct Fire Protection Uniformat Level 4 D5012 - Low Tenson Service & D6012 - Low Tenson Service & D6013 - Tenson Lighting D6022 - Ext Lighting D6023 - Telephone Systems D6037 - Fire Alarm Systems D6038 - Security and Detection D6038 - Security and Detection D6039 - Security and Detection	Component Type Component Type Doo 120 Market Type (600, 220, 170 V)	Baseboard heaters, of varying capacites, are installed in the staff office area Building includes an internet based BMS that interconnects all the local T-stats. The system is manufactured by Redate. Component Narrative Facility is serviced by a west sprinkler system. Sprinkler tree is located in the Mechanical Room. Fire cotingularies are installed at designated location in the building. They are impected annually and replaced as required. Commercial kitchen hood fire suppression system. Component Narrative Building service is a 2019/89, 800A commercial without an internative state of the	No deficiencies were observed or noted during the assessment. Condition Marrative In some event room closels materials are stored too close to the sprinker heads. As part of maintenance and good housing keeping the stored materials should be removed/housing to provide regirner deservations. The replicement cost of the fire extingualizes fails below the threshold value of this deservation. No deficiencies were observed or noted during the assessment. Condition Narrative No deficiencies were observed amount of items stored around or in flord of them impossing sales access. Materials needing to be stored should be relocated to more appropriate locations. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment. Building phone system is expended and modified as program and staff changes cool. No deficiencies were observed or noted during the assessment. Building phone system is expended and modified as program and staff changes cool. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment.	4 - Poor 2 - Good 3 -	Functionally - Lighting Integrity Building Integrity Life Safely Code Compliance Building Integrity Building Integrity Building Integrity Life Safely Code Compliance Life Safely Code Compliance Functionality - Lighting	Lifecycle Replacement 4 Lifecycle Replacement 33000 Invices - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1	each y Unit of Measur each y Unit of Measur each o sq.ft. unit(s) sq.ft. unit(s) each each unit(s)	### Unit Cost Total Cost	1985 2005 Installation Date E	15	1 6 6	Timing Photo No. E	2018 2023 2023 2023 2023 2023 2023 2023 202	\$0 \$22,000 \$25	000 50 50 50 50 50 50 50	\$0 \$0 \$100,000 \$100,000 \$0 \$2020 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$33,000 Event Year 22 - 2026 \$148,500 \$0 \$0 \$0 Event Year \$022 - 2026 \$0 \$0 \$0 \$0 \$36,000 \$36,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$5,000 \$5,000 \$5,000 \$5,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 2037 - 2041 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,000 \$33,000 \$343,990 Total \$148,500 \$5,000 \$150,000 \$153,500 \$478,500 \$270,000 \$270,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000
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D5012 - Low Tension Service & Dist. D5021 - Burnation Service & Dist. D5022 - Lighting Equipment D5022 - Lighting Equipment D5023 - Telephone Systems D5037 - Fire Alarm Systems D5037 - Fire Alarm Systems	Component Type Component Type Doo 120 Market Type (600, 220, 170 V)	Baseboard heaters, of varying capacities, are installed in the staff office area Bailding includes an internet based BMS that indeconnects all the local Trists. The system is manufactured by Relable. Component Narrative Facility is serviced by a west sprinkler system. Sprinkler tree is located in the Mechanical Room. The entiregularies are installed at designated location in the building. They are inspected annually and replaced as required. Commercial kitchen hood fire suppression system. Component Narrative Building service is a 2015/eth, BOAA commercion. Main switchboard is a Federar Princer 5 3 Series. Sub parets are boated around the facility. Facility wiring is a combination of concessed wiring and exposed conduit. Extensing plants are boated around the facility. Extensing plants are weather seated halds lights and local recessed spot light in the main entirance area. Interior lighting in the office, common and gramssium areas is a combination of suspended and "har mounted fluorescent light fluority are insalled and in choose. Facility is wired in the office, common and gramssium areas is a combination of suspended and "har mounted fluorescent light fluority are insalled and in choose. Facility is a fluority of the control fluorescent light fluority and the substitute. Main Fire Alarm panel is located in the main entirance. Main Fire Alarm panel is located in the mechanical comm. Put stations and alarm bells are located throughout the building. Dutsing is expapsed with a CCTT system with officile storage.	No deficiencies were observed or noted during the assessment. Condition Marrative In some event room closels materials are stored too close to the sprinker heads. As part of maintenance and good housing keeping the stored materials should be removed/housing to provide regirner deservations. The replicement cost of the fire extingualizes fails below the threshold value of this deservation. No deficiencies were observed or noted during the assessment. Condition Narrative No deficiencies were observed amount of items stored around or in flord of them impossing sales access. Materials needing to be stored should be relocated to more appropriate locations. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment. Building phone system is expended and modified as program and staff changes cool. No deficiencies were observed or noted during the assessment. Building phone system is expended and modified as program and staff changes cool. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment. No deficiencies were observed or noted during the assessment.	4 - Poor 2 - Good	Functionally - Terminal - Termina	Lifecycle Replacement 4 Lifecycle Replacement 33000 Invices - Fire Protection Recommendation Type Quantit Lifecycle Replacement 33000 Lifecycle Replacement 1	each sq.ft. ty Unit of Measur each sq.ft. unit(s) sq.ft. unit(s) sq.ft. unit(s) each each each	### Unit Cost Total Cost	1985 2005 Installation Date E	15	1 6 6	Timing Photo No. E	2018 2023 2023 2023 2022 2025 2025 2020 2020	\$0 \$2,25 \$1.00 \$2.	000 S0	SO	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$33,000 \$118,400 Event Year 222 - 2036 \$0 \$0 \$148,500 \$0 \$148,500 \$0 \$148,500 \$0 \$50,000 \$50 \$0 \$0 \$0 \$50 \$50 \$50 \$50 \$50 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$2,000 \$33,000 \$343,900 Total \$148,500 \$5,000 \$5,000 \$56,000 \$36,000 \$478,500 \$5,000 \$
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The system is manufactured by Relability of the state of the building state. The system is manufactured by Relability of the state of the building. Component Narrative Facility is serviced by a vest sprinker system. Sprinker tree is located in the Machanical Room. Fire editinguishers are installed at delagnated location in the building. They are expected annually and registed as required. Commercial kitchen hood fire suppression system. Component Narrative Building service is a 208VJSPh, BOA connection. Main switchboard is a federal Provers of 15 Steins. Sub parels are boated around the facility. Facility wiring is a combination of conceased wiring and exposed conduit. Exterior lighting are weather seed haide lights and local recessed spot light on the main enteriors area. Interior lighting in the office, common and gymnasium areas is a combination of suppended and "Fam nounted floures." Exit light are installed at all exit doors. Facility is wired for phore service. Phone jacks are located throughout the building. All real parameters are located in the main entrance. Main Fire Alarm panel is located in the main entrance. Main Fire Alarm panel is located in the main entrance. Main Fire Alarm panel is located in the main entrance. Emergency lights with battlery backups are located throughout the building. Emergency lights with battlery backups are located throughout the side of the building. The unit is reded for 100% facility load.	No deficiencies were observed or noted during the assessment. Condition Narrative In some event room doses materials as streed too close to the sprinder heads. As part of maniferance and good housing length growth or to the street and to the control materials should be removed relocated to provide regular desirances. The replacement cost of the fire estinguishers falls below the threshold value of this assessment. No deficiencies were observed or noted during the assessment. 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The system is manufactured by Reliable. Component Narrative Facility is serviced by a west sprinker years. Sprinker tree is located in the Machanical Room. Fire estinguishmens are installed at designated location in the building. They are imported annually and replaced as required. Commercial kitchen hood fire suppression system. Component Narrative Component Narrative Suiting service is 2 2007/197, 800A connection. Main switchboard is a Faderal Protect 3 Service. Sp. Spot Service is a 2007-197, 800A connection. Main switchboard is a Faderal Protect 3 Service. Sp. Sp. parels are located around the facility. Facility wiring is a combination of conceased wiring and exposed conduit. Eches or lighting are weather sealed haldes lights and local recessed spot light interest pighting in the office, common and gymanism ereas is a combinator of suppredict and T-bar mounted fluorescent light flutures. Est lights are included at all set doors. 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Photo 1 B1021 Steel I-beams require Painting



Photo 2 A1031 Crack in Slab-on-Grade near GL's 9.1 & Q

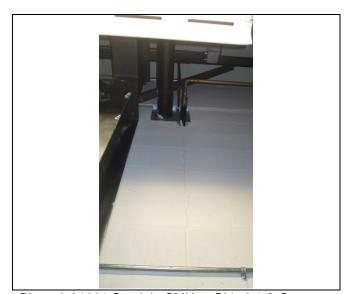


Photo 3 A1031 Crack in CMU at GL's 9.1 & O

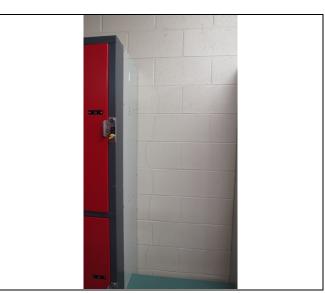


Photo 4 A1031 Crack in CMU at GL's 9.1 & M





Photo 5 A1031 Crack in Slab-on-Grade near GL's 8 & D



Photo 6 B2011 Water behind masonry Block

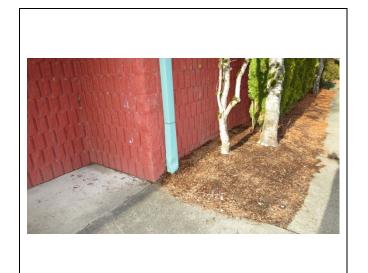


Photo 7 B2011 Landscape Grade above Finished Floor



Photo 8 B2011 Roof Leak Water behind masonry Block





Photo 9 B2011 Water behind Masonry Block-Deteriorating Corner



Photo 10 B2021 Exterior Windows



Photo 11 B2023 Storefront Assembly - Main Entry



Photo 12 B2032 Exterior Doors require Paint





Photo 13 B3011 Metal Roofing



Photo 14 B3011 Asphalt over Metal Roof Repair



Photo 15 B3011 Metal Roof Repair



Photo 16 B3011 Rusting Gutter





Photo 17 C1011 Painted Fixed Partitions



Photo 18 C1013 Movable Court Glass Wall



Photo 19 C1013 Non-Movable Court Glass Wall



Photo 20 C1013 Lobby Security Grille





Photo 21 Folding Partition-Stored

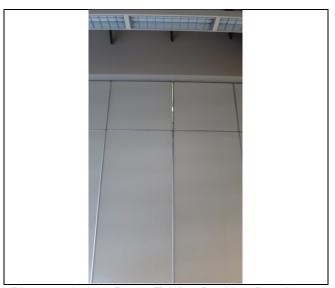


Photo 22 Activity Room Folding Partition-Requires maintenance



Photo 23 C1031 Toilet Partitions



Photo 24 C1032 Millwork





Photo 25 C1037 Lockers

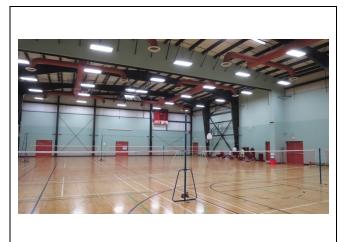


Photo 26 C1030 Gym Equipment



Photo 27 C1030 Gym Equipment



Photo 28 C3012 Mirrored Walls in exercise room



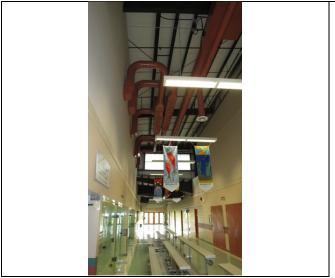


Photo 29 C3033 Painted Ductwork & Ceiling Purlins



Photo 30 D2000 - Fountain & Water Bottle Station

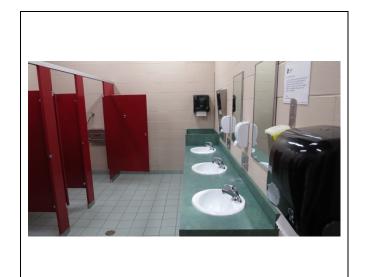


Photo 31 D2013 - Lavatories



Photo 32 D2014 - Commercial Sinks





Photo 33 D2014 - Sinks



Photo 34 D2022 - Hot Water Service



Photo 35 D3022.2 - RTU-12



Photo 36 D3042 - Exhaust Fans





Photo 37 D4011 - Sprinkler Tree



Photo 38 D4095 - Hood Fire Protection



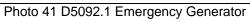
Photo 39 D5022.1 - Internal Lighting

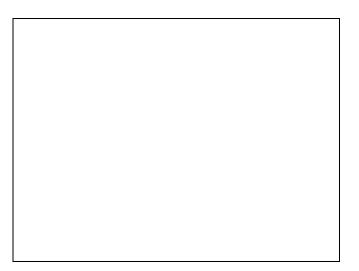


Photo 40 D5030 - Data & Telecom















To The Owners, City Of Campbell River Draft Submitted April 4, 2019 by c/o Mr. Jason Decksheimer **City Of Campbell River** 385 S Dogwood St **Campbell River BC V9W 8C8**

RDH Building Science Inc. 730 Grant Avenue #208 Courtenay BC V9N 2T3

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Appendices

Appendix A Observations

1 Introduction

1.1 Terms of Reference

RDH Building Science Inc. (RDH) was retained by The Owners, City Of Campbell River (City) to undertake an assessment of the current condition of the building enclosure of the buildings located at 1800 South Alder Street, Campbell River, BC.

This report documents the current condition of elements of the building enclosure. It may also provide information related to the specific sources of moisture or other physical factors which have resulted in the observed conditions.

This report has been undertaken for The Owners, City Of Campbell River and is not to be relied on by others.

1.2 Report Organization

Background information relevant to this building and the condition assessment is provided in Section 1 of this report.

The report is organized in accordance with five primary elements of the building enclosure as well as interior operating conditions:

- 1) Walls
- 2) Windows and Doors
- 3) Roofs

Our specific observations and other factual data related to these elements are contained in an appendix that corresponds to each of these elements. Section 2 discusses our observations and the implications with respect to current and future building enclosure performance. Recommendations for rehabilitation and renewal of building enclosure assemblies are provided where appropriate. Further, observations regarding specific maintenance items may be made if they relate to a proposed rehabilitation or renewals recommendation; however, this report does not constitute an overall maintenance and renewals plan.

The recommendations for rehabilitation and renewal are summarized in Section 3. Construction cost estimates and proposed timing associated with the recommendations made are presented with a discussion of alternate conceptual approaches, phasing and advantages of various implementation scenarios where appropriate.

1.3 Documents Reviewed

The documents provided to and reviewed by RDH are listed in

TABLE 1.1 DOCUMENTS REVIEWED	
DOCUMENT DESCRIPTION	
Architectural Drawings	Weber and Associate Architectural Consultant Inc.
Engineered Building Fabrication Drawings	Varco-Pruden Buildings
Structural Drawings	Yolles Consulting Engineers Inc.

TABLE 1.1 DOCUMENTS REVIEWED	
Electrical Drawings	Arnold Nemetz \$ Associates Ltd.
Mechanical Drawings	DAS Limited

1.4 Building Description

A description of the buildings is provided in Table 1.2. The Building is primarily a preengineered steel building manufactured by Varco-Pruden Buildings.

TABLE 1.2 DESCRIPTION OF BUIL	DING
Name	Campbell River Sportsplex
Address	1800 South Alder Steet Campbell River, BC
Date of construction	1994
Building enclosure requirements	N/A
Number of storeys	1
Type of construction	Steel
Structural system	Steel Structure on concrete foundation

1.1 **Building History**

A brief history of activities and events relating to the building enclosure assemblies as reported to us or as described in the documents reviewed is listed in .

TABLE 1.3 BUILD	DING ACTIVITIES RELATED TO ENCLOSURE PERFORMANCE
DATE	
1994 to Present	Membrane repair work has been performed on the walls and roof areas.

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2 Discussion of Building Enclosure Performance

2.1 Walls

Conditions and performance of the wall assemblies at interfaces that occur between the walls and other major elements of the enclosure (windows, doors and roofs) are discussed in later sections of this report. This section therefore focuses on the wall assembly itself as well as penetrations and other features within the walls areas.

The metal cladding at the Sportsplex is part of the pre-engineered building system and employs what is typically referred to as a "face seal" strategy for rainwater management. Face seal walls are not tolerant of moisture penetration past the cladding as there is no effective means for drainage or drying.

Face seal wall assemblies control rain penetration primarily through the water tightness of the exterior cladding surface, and the continuity of the exterior shedding surface between the cladding and other wall elements, penetrations and interfaces (e.g. windows, vents, etc.).

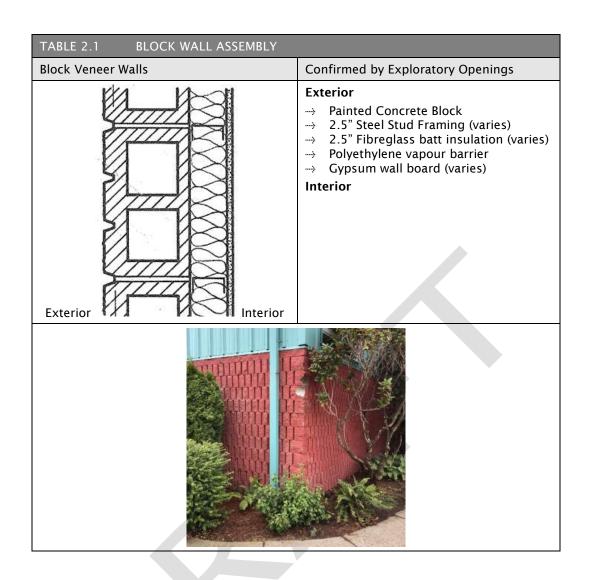
Water tightness and the continuity of the cladding surface are critical performance factors, and they are difficult to achieve during construction and onerous to maintain over the service life of the building. There is significant likelihood that some level of moisture entry behind the cladding will occur. Therefore, face sealed wall areas with a high exposure to wind driven rain are still vulnerable to water ingress and damage.

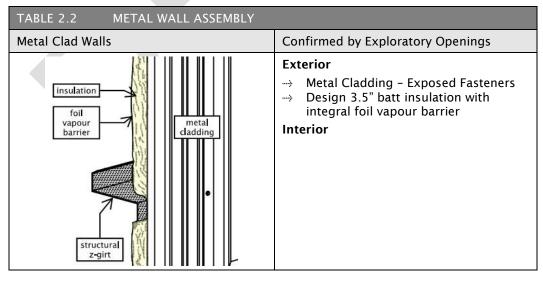
The long wetting periods and short drying periods in a coastal climate limit the drying potential of a face sealed wall assembly. Moisture that reaches the insulation behind the cladding is likely to be retained for long periods of time and can cause corrosion of the metal framing components and cladding attachment components. As is difficult to interface the insulation with penetrations and areas such as the top and bottom of walls leakage may also result when water penetrates the cladding. The degree to which the exterior walls are exposed to the weather (wind driven rain) has a direct impact on their performance. Most of the wall areas are not protected by roof overhangs and are considered to be exposed.

Key observations are described in a following section of the report.

There are two general wall assemblies at the Sportsplex which comprise of:

- → The lower level of wall consists of painted block against an insulated steel stud back up wall. Refer to Table 2.1 below.
- → Metal cladding installed directly onto the metal wall structure. Faced batt insulation is compressed against the back of the metal cladding. Refer to Table 2.2 below.

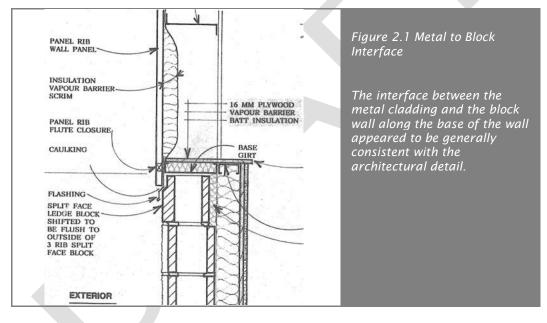




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→ The interface between the metal cladding and the block wall generally reflects the architectural details. Refer to Figure 2.1 below.



2.1.1 Observations

Key visual observations noted during the site assessment related to the walls include:

→ Overhangs can provide a varying degree of protection for the exterior walls. The majority of the walls have no overhang protection (Figure 2.2) and are considered to have a high exposure to weather.



Figure 2.2 Wall Protection Wall cladding is exposed to rain fall.

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→ Corrosion on the surface of the metal cladding under covered locations (Figure 2.3).



→ Surface corrosion on exposed cladding fasteners and on metal panel at fastener penetrations (Figure 2.4).



→ Wet insulation at base of wall details including below windows (Figure 2.5).



→ Window head flashing and sill flashings are originally installed without a seal to the window which can result in unintended wetting of the insulation behind the metal cladding (Figure 2.6). Many window perimeters have had remedial sealant installed.

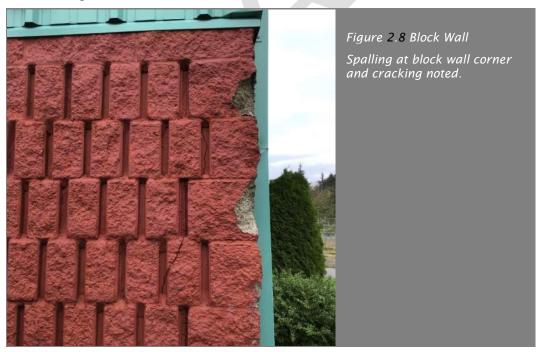


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→ The metal soffits are generally an extension of the wall cladding. The profile and colour are the same as the metal cladding. The majority of the metal soffits were found to be corroding (Figure 2.7).



→ Cracking in the block wall was observed at several locations as well as spalling of the block (Figure 2.8).



→ Joints in the sill flashing at the base of the metal cladding above the brick was simply overlapped at the few locations reviewed (Figure 2.9). The sill flashing is intended to protect the top of the block wall. It is noted that much of the block spalling and efflorescence is occurring at corners.



Figure **2.9** Cladding Sill Flashing Open joint in the head flashing of the block wall.

→ Window sill flashings and perimeter sealant are in place to protect the block (Figure 2.10). The sill flashing is intended to protect the top of the block wall.



Figure 2.10 Window Sill Flashing

Covers the bottom course of block.

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2.1.2 Discussion and Recommendations

The general performance of the wall can also be gauged by looking at the results of our Observations from the exploratory work which is more defined in Appendix A.

Metal Cladding

The exploratory work confirms that significant and ongoing remedial work has been performed to the metal cladding over several years to maintain the performance of the building. We understand that there are still several areas that are experiencing intermittent water leakage to interior spaces.

The general condition of the metal cladding is reasonable for its age. The main field of the cladding provides adequate resistance to water penetration, detailed areas at the base of wall, windows and other mechanical penetrations are resulting in wet insulation or leakage to the interior. Typically a cladding assembly with exposed fasteners could undergo a fastener replacement program and some improved sealant work to result in continued performance, however in the case of the Sportsplex metal clad wall assembly the amount of detailing in the building enclosure cannot be greatly improved without major modifications.

In regards to insulation value the design drawings call up 3.5" of batt insulation panels which is nominally results in an R-Value of approximately R-12. Due to the constriction of the insulation at the structural z-girts the effective R-Value of the metal clad wall assembly will be much less. It is noted that the current effective R-value requirement in the building code for metal buildings is R-14.5 effective.

For the detailed wall areas, implementing a strategy of improved surface water shedding details and sealing, in an attempt to perfect the face seal of those areas, is not recommended. We recommend that the exposed areas of the metal cladding be removed and replaced with a rainscreen cladding assembly and improved air barrier detailing. There is a potential to retain the metal cladding at large wall areas with no penetrations as shown in the figure below, although there is a risk of future leakage through perpetrations such as fasteners or lights etc.



Figure 2.11 South West Elevation - Metal Cladding

Potential location to retain metal cladding.

This report contemplates the replacement of the metal cladding in conjunction with the window replacement and roof replacement. Further consideration to retain certain portions of the metal cladding could be considered as the renewal program is developed.

Block Wall

We did not note any significant water leakage through the block wall, however we did observe efflorescence through the paint, cracks in the block extending through the paint coating and spalling of the block. The block wall resists moisture primarily through the continuity of the paint coating. The block has some capacity to absorb moisture and slowly dry to either the exterior or interior depending on the direction of the vapour drive. Concentrated leakage into the block wall will likely not dry due to the presence of paint coating and interior poly vapour barrier. Concentrated leakage can occur through discontinuities in the paint or water drainage from the metal cladding above into the cores of the block. As the block relies on the paint coating as a face seal wall assembly it is important to adequately protect the top of the block and maintain the paint coating.

This report contemplates two options to address the block wall portions of the building:

- → Repair the cracks and spalled portions of block. Repaint portions of the block as required after the repair work. Adequately protect the top of the block and provide a significant drip edge during the metal cladding renewal program.
- → Repair the cracks and spalled portions of block. Repaint portions of the block as required after the repair work. Overclad the block wall to create a rainscreen wall assembly. There are many cladding options such as Hardie lap siding or panel, metal or stucco.

The over cladding of the wall will provide some redundancy in the assembly and cracks in the block will be protected by the cladding and likely not result in significant water leakage into the building, whereas simply recoating the block at repair locations will not prevent water ingress if the block continues to crack through the paint coating.

RECOMMENDATIONS								
1	Replace the metal soffits.							
2	Metal Wall Option A - Replace metal wall cladding with a new improved rainscreen cladding assembly.							
3	Metal Wall Option B - Retain the existing wall assembly and perform maintenance as required. Modifications will be required with the installation of the new roofing.							
4	Block Wall Option A- Repair the block wall and maintain the existing wall coating with improved detailing.							
5	Block Wall Option B- Repair the block wall and over clad with a rain screen assembly.							

2.2 Windows & Doors

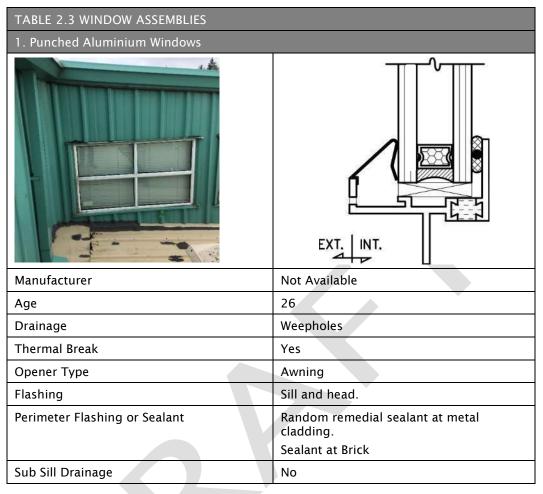
2.2.1 Windows

The windows on this building are aluminum windows installed in 1994. They have thermally broken aluminium frames with dual-glazed insulating units (IGU). They are classified as "concealed barrier assemblies" (described in Table 2.3). There are sliding operable units on the ground floor only.

The window assemblies are typical of those installed 26 years ago and have a proven record of poor resistance to interior condensation and rainwater leakage. The insulated

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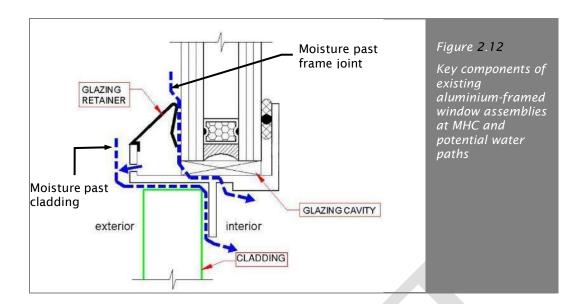
glazing unit seal consists of a butyl poured in place seal. These types of seals do not tend to last as long as metal spacer bar type seals.



The windows rely on the exterior metal glazing stop to shed water away from the horizontal mullions of the window frame. The lack of a seal between the metal glazing stop and the glass due to discontinuities in the gaskets can allow a significant amount of water to enter into the glazing cavity beneath the glass. To prevent water that enters the glazing cavity from leaking into the building, there is:

- → A gasket of glazing tape seal between the innermost face of the glass and the window frame.
- → A thin cap seal application of silicone seal over the irregular surface interface at the screw fastened mitre corners of the aluminium window frame.

The sealant at the mitred corner joints is susceptible to failure and screw splines and interfaces are vulnerable to leakage. At the exploratory openings made below windows, we did observe evidence of water leakage directly below the windows into the wall construction below, however we did not observe damage to the concealed metal materials



There have been some window renewals over the past 5 years to replace the existing glass within the window assembly. The majority of the window glass is original.

2.2.2 Storefront Windows

We performed a cursory review of the storefront doors and windows at the front entrance and side entrance of the building. We understand that these windows and door are not original and have been installed in the last several years. Our focus was primarily spent on smaller punched windows. No leakage has been reported through these windows and therefore our review consisted was visual only.

This type of storefront window assembly is typically intended for areas low exposure to wind driven rand and typically would be installed at locations with overhangs. These windows have insulated glazing units with an aluminum spacer bar which is appropriate for these large glass sizes.



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TABLE 2.4 WINDOW AND DOOR ASSEMBLIE	S
Drainage	Concealed Weepholes to sub sill
Thermal Break	Yes
Opener Type	Door
Flashing	None
Perimeter Trim or Sealant	Sealant
Sub Sill Drainage	No

2.2.3 Observations

Key visual observations noted during the site assessment related to the windows include:

→ Remedial exterior perimeter sealant at the upper level windows on most elevations (Figure 2.13). This sealant has reached the end of its effective service life at most locations reviewed.



Figure 2.13 Window Sealant Multiple applications of sealant installed at window perimeters.

→ We performed localized spray testing to identify the source of ongoing leakage below the hall way clerestory windows on the east elevation. Water was directed at the centre of the windows and at the perimeter interface with the cladding (Figure 2.14). No water ingress was observed dripping on the interior during the test. When the metal cladding was removed below the window we found that the insulation was wet. The water testing identified discontinuities in the perimeter interface of the window.



Figure 2.14 Water Test
Water testing at the hall
window on the east elevation
and the resultant moisture
identified in the insulation
below.

→ Failed seal of the insulated glazing unit (Figure 2.15). Several windows were found to have moisture between the glass units. This typically indicates the end of the glazing unit service life.



Figure 2.15 Window Seal

Movement of the glass seal
can result in fogging between
the units.

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→ It does appear that some of the insulated glazing units, specifically in the exercise rooms, have been replaced, however we noted that some of the glass stops were broken during the replacement (Figure 2.16).

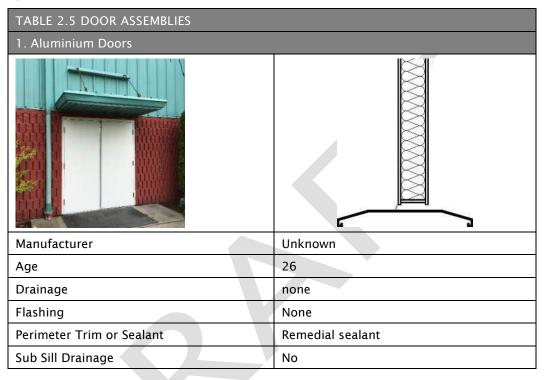


→ Windows within the block wall appear to be in better shape compared to the windows in the metal clad areas. This is likely due to their more protected locations at the lower level. We did note that there were several failed insulated glazing units in these windows. The perimeter sealant has not yet reached the end of its service life however it would be prudent to replace the sealant at the time of renewals. (Figure 2.17).



2.2.4 Doors

The doors primarily consist of steel swing doors with single and double leaf swing doors. Many of the doors have adequate overhang protection, in the form of canopies or overhang protection. Due to the location of the complex many of the doors are likely exposed to some wind driven rain.



2.2.5 Observations

Key visual observations noted during the site assessment related to the doors include:

→ Corrosion identified on several of the painted steel doors and the steel columns (Figure 2.18).



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2.2.6 Discussion and Recommendations

There have not been any reports of significant leakage around the doors. Considering that there are only a small portion of doors that are exposed we suggest that improvements be considered when adjacent renewal work is performed which would include renewing gaskets, painting and sealant work.

RECOMM	MENDATION
6	Replace the exterior windows with higher performing windows and improved detailing.
7	Repaint exterior steel doors. The replacement of gaskets and sealants should also be considered at this time. Repainting of exterior metal columns should be completed in conjunction with the door painting.

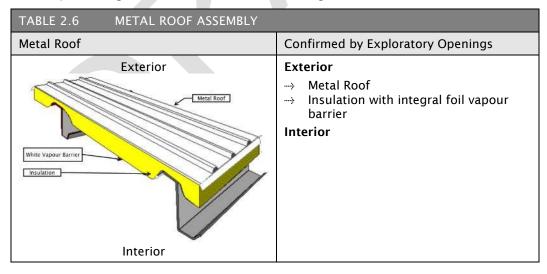
2.3 Roofs

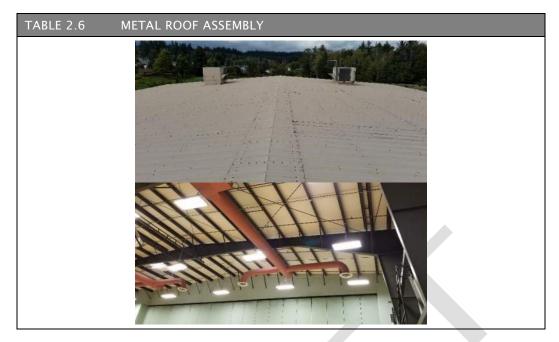
The metal roofing at the Sportsplex is a similar to the metal wall cladding assembly. The metal roofing at the Sportsplex is also part of the pre-engineered building system and employs a "face seal" strategy for rainwater management. Face seal roofs of this type are not tolerant to moisture penetration past the roofing and can retain water within the insulation panels for long periods of time as there is no effective means for drainage or drying.

Key observations are described in a following section of the report.

There is only one common roof assembly comprised of:

→ Metal roofing installed directly onto the metal roof structure. Faced batt insulation is compressed against the back of the metal roofing. Refer to Table 2.6 below.





A common service life applied to metal roofs of this type is 30 years. At the current age of 26 years, the metal roofs are approaching that common service life limit.

A common service life for exposed fasteners for metal roofs is 10-15 years. The limit of service life for fasters can be considered as any of the following:

- → Permitting water ingress around the fasteners. This can be by gasket deterioration or fastener / roofing separation.
- → Corrosion of the fasteners.

No past fastener renewal work has been reported.

2.3.1 Observations

Key visual observations noted during the site assessment related to the roof include:

→ The foam gaskets at the roof edges are a key component to resist water ingress behind the panel. We found the gaskets are deteriorated and therefore not effective (Figure 2.19).



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→ The roofing is secured to the structure with exposed metal fasteners. We observed corrosion on the majority of the fasteners (Figure 2.20).



Figure 2.20 Roof Fasteners
Surface corrosion on exposed metal fasteners.

→ Corrosion was found at the edge of the metal roofing at a lap joint in the 2 exploratory openings made (Figure 2.20).



Figure 2.21 Roof Corrosion Corrosion of the metal roof panel.

→ Patches and seals at penetrations through the metal roofing have failed in several locations (Figure 2.22). As there is not a moisture barrier below the metal to protect the insulation discontinuities in the roof seal will result in wet insulation and potential leakage into the building.

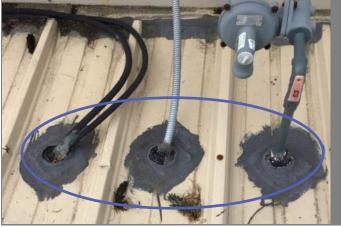
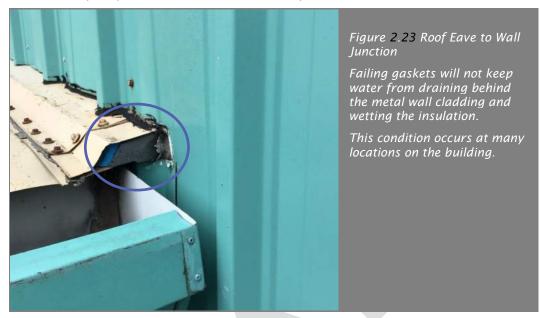
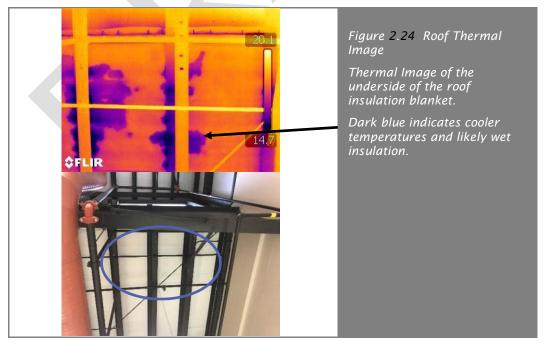


Figure 2.22 Roof Penetrations
Damaged roof seals.

→ Where the roofing ends along the plane of an exterior wall there is no means to direct water away from the wall panels (Figure 2.20). Given the amount of membrane remedial work observed it reinforces the assumption that this detail does not effectively keep water out of the wall assembly.



→ A thermal scan was performed at random locations from the interior. A location was selected just outside the women's change room below the clerestory window where leakage has been reported. The thermal scan shows cooler temperatures in the insulation blankets which could be the result of water in the insulation (Figure 2.24).



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2.3.2 Discussion and Recommendations

The general condition of the metal roofing is reasonable for its age. However the number of mechanical penetrations and wall interface details has led to an intensive maintenance program and leakage issues.

Installation of new fasteners will not resolve the metal roof's current leakage problems primarily due to the number of penetrations through the roof.

Our visual review confirms that significant and ongoing remedial work has been performed to the metal roofing over several years to resolve leakage issues and as preventative maintenance. We understand that there are still several areas that are experiencing water leakage to interior spaces. Our thermal scans have confirmed that leakage occurs into the insulation blankets at numerous locations. The wet insulation will reduce the thermal resistance of the insulation.

In regards to insulation value the design drawings call up 3.5" of batt insulation panels which nominally results in an R-Value of approximately R-12. Due to the constriction of the insulation at the structural metal roof channels the effective R-Value of the metal roof assembly will be much less. It is noted that the current effective roof R-value requirement in the building code for metal buildings is R-18 effective.

In regards to renewing the metal roofing there are many options to consider. We have contemplated two strategies.

Option A - Replacement of the metal roof like for like.

This option would include the removal of the existing metal roof and replacement with a similar metal roof panel. There would be no adjustments to the insulation value. We understand that new mechanical equipment is scheduled for the roof. Improved detailing could be achieved if the projects occurred simultaneously. Although the insulation would not be disturbed the interior of the building would likely have to be vacated under work areas due to the risk of material dropping through the insulation blankets to the interior.

Option B – Overcladding with an added moisture barrier, insulation and new metal roofing. This assembly is more complex than simply replacing the metal roofing in Option A, however it does provide a more traditional metal roof which includes a protected moisture barrier. The moisture barrier below the metal roofing will act as a secondary layer to seal around all roof penetrations. In addition, there is an opportunity to add insulation to the assembly and improve the thermal performance of the roof. This assembly has less risk of future leakage into the building than the replacement of the metal described in Option A. The new assembly would be installed over the existing roof creating little to no disruption to interior operations.

RECOMMENDATION		
	8	Metal Roof Option A - Replace the metal roof and retain the insulation. Make improvements to detailing.
	9	Metal Roof Option B - Overclad the existing roof with a new exterior insulated metal roof assembly.

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3 Recommendations

3.1 Summary of Rehabilitation Needs

Our recommendations are based on a combination of factors including a review of design drawings and other available documentation, information collected at the building through visual observations and exploratory openings, as well as experience and knowledge gained from investigations of many other buildings with similar assemblies and details.

3.2 Summary of Recommendations

Table 3.1 lists all building enclosure rehabilitation and renewal tasks that were identified in Section 3 of this report. These recommendations form the basis for the costing that is provided and discussed in the following section of this report.

TABLE 3.1 SUMMARY OF RECOMMENDATIONS		
1	Replace the metal soffits.	
2	Metal Wall Option A - Replace metal wall cladding with a new thermally improved rainscreen cladding assembly.	
3	Metal Wall Option B - Retain the existing wall assembly and perform maintenance as required. Modifications will be required with the installation of the new roofing.	
4	Block Wall Option A- Repair the block wall and maintain the existing wall coating with improved detailing.	
5	Block Wall Option B- Repair the block wall and over clad with a rain screen assembly.	
6	Replace the exterior windows with higher performing windows and improved detailing.	
7	Repaint exterior steel doors. The replacement of gaskets and sealants should also be considered at this time. Repainting of exterior metal columns should be completed in conjunction with the door painting.	
8	Metal Roof Option A - Replace the metal roof and retain the insulation. Make improvements to detailing.	
9	Metal Roof Option B - Overclad the existing roof with a new exterior insulated metal roof assembly.	

3.3 Estimated Rehabilitation Project Costs

It is important to understand that the budget construction costs are based on our experience with similar projects; they are presented as probable costs for the program listed in the previous section and are based on approximate unit rates without a complete design developed. Budget estimates will be refined and a more precise overall figure will be obtained during the design, construction documents, and tendering phases of the project. The actual cost will be established when the contractors bid on the project and when a contract is awarded. The construction industry pricing environment can vary significantly and is dependent, to a certain extent, on factors external to the actual project.

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In addition to construction costs, allowance needs to be made for project costs such as fees, permits and owner contingencies. In order to assist you in planning and to advise on the relative magnitude of other project costs, The Estimated Project Costs for the recommended rehabilitation program have been provided in our Enclosure Renewals Budgeting Letter Dated September 26, 2018. An owner contingency of 10% is included. An owner contingency is essential in rehabilitation construction to account for costs that may arise in the event of unforeseen damage or issues not directly related to the enclosure rehabilitation project.

3.4 Next Steps

The condition assessment report presents conceptual level recommendations with respect to rehabilitation and renewal activities. It is important to understand that these recommendations do not provide a basis for implementing remedial work. Conceptual recommendations need to be developed, refined, and documented in detail before the construction work can be tendered to contractors or a building permit obtained.

The next step typically begins with the design process where the consultant considers alternative ways of addressing existing problems and assists you in making decisions with respect to specifics of the rehabilitation program. Once decisions are made, the selected design is developed and documented in greater detail in the form of drawings and specifications. These documents indicate the exact extent and nature of the remedial work, materials to be used etc.

The drawings and specifications are used to obtain bids from pre-qualified contractors, obtain a building permit to carry out the work, and as the basis to carry out the rehabilitation work. Once a contractor has been selected, usually on the basis of the lowest submitted bid, the project can move into the construction stage. During this stage, the remedial work program that has been designed by the consultant (with Owner involvement and agreement) is implemented, and repair and reconstruction takes place on-site. The consultant administers the construction contract and undertakes periodic field review of construction as the work proceeds. It is also common for the consultant to provide a maintenance and renewals plan (or update an existing plan) for the rehabilitated enclosure assemblies upon completion of the construction.

Yours truly,

Robin Breuer | AScT, RRO Associate, Senior Project Manager rbreuer@rdh.com 250 703 4753 RDH Building Science Inc.

encl.

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Appendix A Observations

Campbell River Sportsplex

Sportsplex BECA

Created: 04-04-2019

Creator: Robin Breuer (@RBR)

Status:

Dates: 09-10-2018 - 04-04-2019

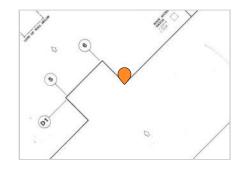
Description

RDH performed a building enclosure condition assessment on September 11th, 2018.

The following Observations were made during our Assessment.

• #6 - Roof Edge

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-11-2018



Task messages (time in PDT)

Robin Breuer



Robin Breuer



11 Sep 09:43 AM

11 Sep 09:42 AM

Robin Breuer

Observations

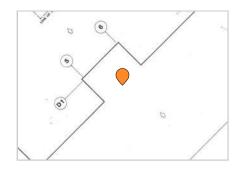
1. Remedial membrane work has been performed between the roof edge flashing and the metal roofing.

2. The edge of the metal roofing at lap joints is showing signs of corrosion.

29 Mar 12:05 PM

#7 - Metal Roofing @ lap joint

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-11-2018



11 Sep 09:44 AM



Robin Breuer

11 Sep 09:50 AM



Robin Breuer

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Robin Breuer

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Robin Breuer

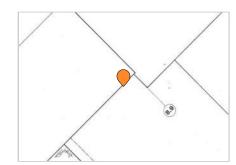
Observations

03 Apr 08:32 PM

- 1. The tops of the metal fasteners are surface corroded. The body of the fastener is free from
- 2. The insulation above the lap joint is clean and dry.3. the butyl sealant remains soft and effective.

#24 - Roof Gutter

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018





11 Sep 10:20 AM

03 Apr 07:34 PM

Robin Breuer

Observations The outside let of the roof gutter is secured through the top of the metal roof.

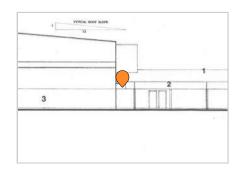
The inside of the gutter was corroded. This corrosion will continue and result in holes through

the gutter.

#37 - Soffit to Wall Interface

Priority 2 | Robin Breuer | -Plan: A3

Created 09-12-2018





11 Sep 12:24 PM



Robin Breuer

Observations

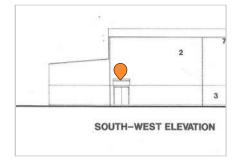
03 Apr 08:17 PM

There is a significant gap in the air barrier at the junction between the soffit space and the adjacent wall. The sofft extends past the insulation blankets which act as the air barrier and vapour barrier. Renewal strategy should address the air barrier continuity at this typical locations.

#31 - Metal Canopy

Priority 2 | Robin Breuer | -Plan: A3

Created 09-12-2018







#28 - Ground Floor Window Sealant

Priority 2 | Robin Breuer | -

Plan: A3

Created 09-12-2018



11 Sep 11:51 AM

Task messages (time in PDT)

Robin Breuer



Robin Breuer 11 Sep 11:51 AM



Robin Breuer

11 Sep 11:51 AM



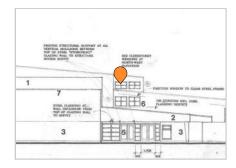
Robin Breuer

Observations
A urethane sealant is installed around the perimeter of the windows to seal to the block. The sealant is softening and yellowing indicating it has reached the end of its service life.

03 Apr 07:52 PM

• #1 - Metal Cladding @ Window Sill

Priority 2 | Robin Breuer | -Plan: A3 Created 09-11-2018



11 Sep 09:27 AM



Robin Breuer

11 Sep 09:28 AM



Robin Breuer

11 Sep 09:35 AM



Robin Breuer

11 Sep 09:36 AM



Robin Breuer 11 Sep 09:36 AM



Robin Breuer

11 Sep 09:37 AM



Robin Breuer

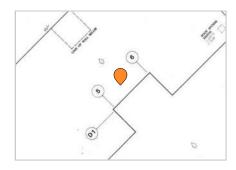
Observations:

29 Mar 11:48 AM

- 1. Sealant work has been performed at the window perimeter. The sealant is aged and is at the end of it's service life.
- 2. Metal cladding under the window was removed. The insulation was found to be wet at fastener locations.
- 3. Liquid membrane patches were installed between the metal roof and the cladding .

#4 - Roof Drains

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-11-2018





11 Sep 09:34 AM



Robin Breuer

11 Sep 09:34 AM



Robin Breuer

Observations

29 Mar 11:58 AM

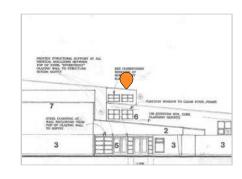
- Gutters from upper metal roof areas drain onto the lower metal roofing.
 Back sloped metal roofing counter flashings have resulted in a build up of debris against the metal cladding from the upper roof drains.

#5 - Windows

Priority 2 | Robin Breuer | -

Plan: A3

Created 09-11-2018



Task messages (time in PDT)

Robin Breuer



Robin Breuer



Robin Breuer

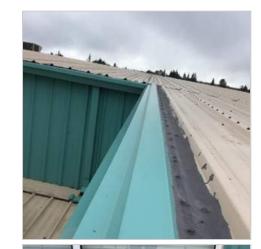


11 Sep 09:38 AM

11 Sep 09:39 AM

11 Sep 09:39 AM

11 Sep 09:40 AM



Robin Breuer

11 Sep 09:46 AM



Robin Breuer

11 Sep 09:46 AM



Robin Breuer

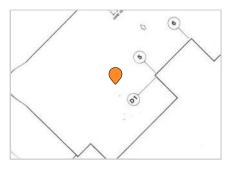
11 Sep 09:48 AM



- 1. Water staining on the interior sill of the windows were observed at several locations.
- remedial sealant work has been performed at the perimeter of many windows.
 Insulation under the windows was found to be wet which could be a result of leaking joints in the window frame.
- 4. The seal between the insulated glazing unit and the window frame is failing at several locations reviewed.

#3 - Metal Roof and Roof Penetrations

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-11-2018



Task messages (time in PDT)

Robin Breuer



Robin Breuer



11 Sep 09:32 AM

11 Sep 09:32 AM



11 Sep 09:33 AM

Robin Breuer

Observations

29 Mar 11:55 AM

- Exposed metal roofing fasteners are corroded.
 Liquid membrane has been installed to seal around penetrations in the metal roofing such as gas lines or mechanical equipment. The liquid membrane is not part of the original roof assembly and is considered remedial work.

• #38 - Roof Ridge Edge Flashing

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



Robin Breuer 11 Sep 01:10 PM



Robin Breuer

11 Sep 01:10 PM



Robin Breuer

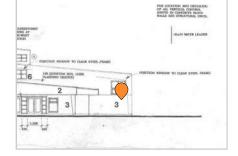
Observations

03 Apr 08:20 PM

The gasket between the roof edge flashing and the metal roofing is deteriorated and not performing as intended. This is a primary seal to keep water out of the roof and wall assembly.

#33 - Block Wall

Priority 2 | Robin Breuer | -Plan: A3 Created 09-12-2018



Robin Breuer 11 Sep 11:49 AM



Robin Breuer

11 Sep 11:49 AM



Robin Breuer

11 Sep 01:40 PM



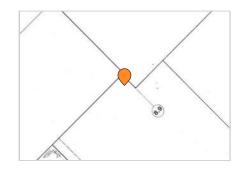
Robin Breuer

Observations
Cracking and spalling of the block wall was observed at an outside corner.
Unsealed corner posts and window interfaces could lead to water leakage onto the top of the block wall behind the coating resulting in cracking and spalling of the block.

03 Apr 08:08 PM

#11 - Wall Cladding Interior Corner

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



Task messages (time in PDT)

Robin Breuer 11 Sep 12:52 PM



Robin Breuer



Robin Breuer



Robin Breuer

Observations

We removed an portion of the metal cladding at an inside corner below the end of a metal gutter. Debris and water staining was visible at the cladding joint in the corner. Corrosion on the fastener holes was noted. As there is exposed insulation in the cladding lap joint moisture at this location could be wicked in to the system by the insulation.

11 Sep 12:52 PM

11 Sep 12:52 PM

01 Apr 11:20 AM

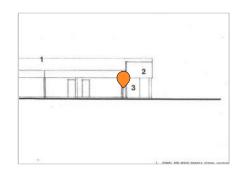
Sportsplex BECA pg. 18 Created with Fieldwire on 04-04-2019

#32 - Steel Columns

Priority 2 | Robin Breuer | -

Plan: A3

Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



Robin Breuer



Robin Breuer



Robin Breuer

The steel columns are corroded and require repainting. A heavier coating may be prudent at the column base.

11 Sep 11:57 AM

11 Sep 11:57 AM

11 Sep 11:57 AM

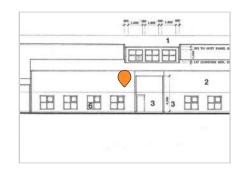
Created with Fieldwire on 04-04-2019

#14 - Interior Wall Area Below Roof Eave

Priority 2 | Robin Breuer | -

Plan: A3

Created 09-12-2018



11 Sep 01:49 PM

11 Sep 01:49 PM

Task messages (time in PDT)

Robin Breuer



Robin Breuer



Robin Breuer

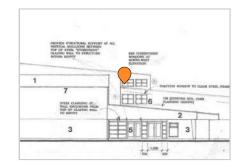
Observations
Significant water staining on the inboard side of the insulation panel.

03 Apr 09:59 AM

#26 - Water Test Roof Edge

Priority 2 | Robin Breuer | -Plan: A3

Created 09-12-2018



Robin Breuer 11 Sep 11:11 AM



Robin Breuer

11 Sep 11:27 AM



Robin Breuer

11 Sep 11:29 AM

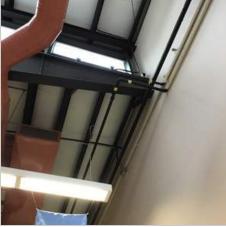


Robin Breuer

11 Sep 11:45 AM



Robin Breuer 11 Sep 11:45 AM



Robin Breuer

Water was sprayed along the roof edge flashing above the clerestory windows with reported leakage. Water drops onto the floor below were observed during the test.

03 Apr 07:42 PM

#27 - Metal Soffits

Priority 2 | Robin Breuer | -Plan: A3 Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 11:47 AM



Observations

03 Apr 07:48 PM

Corrosion was observed on the underside of the metal soffits. This can occur if the metal is not cleaned or is washed by rain water. Although cleaning and repainting is a renewal options,

repainting may only last a few years before peeling and corrosion reoccurs.

Robin Breuer Corrosion was observed on the painted metal columns. Painting would be an appropriate

renewal approach.

03 Apr 07:49 PM

#30 - Block Wall

Priority 2 | Robin Breuer | -

Plan: A3

Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 11:52 AM

Robin Breuer 11 Sep 11:52 AM



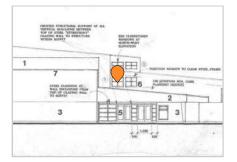
Robin Breuer

Observations
Spalling of the block was observed at two corners. This is likely a result of water trapped behind the block. Water behind the block could be a result of discontinuity in the paint coating or from the wall panels above.

03 Apr 08:01 PM

#17 - Remedial Work

Priority 2 | Robin Breuer | -Plan: A3 Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 02:22 PM

Robin Breuer 11 Sep 02:22 PM



Robin Breuer

11 Sep 02:22 PM



Robin Breuer

11 Sep 02:23 PM



Robin Breuer

11 Sep 02:23 PM



Observations

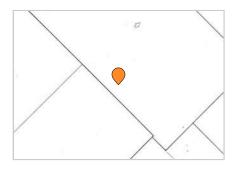
Remedial sealant work and membrane work has been performed at numerous wall and roof interfaces including:

- 1. Between base of wall flashing and roofing.
- 2. Between metal cladding and base of wall flashing.
- 3. Sealant installed between window frames and sill flashing.
- 4. Sealant installed between window head flashing and cladding.
- 5. Sealant installed at the interface between the roof gutter and the wall cladding.

We understand this work was done to resolve the leakage into the hall below the clerestory windows.

#21 - Base of Wall Flashing at Roof Interface

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



11 Sep 10:08 AM

Task messages (time in PDT)

Robin Breuer

Robin Breuer



11 Sep 10:09 AM



Robin Breuer 11 Sep 10:10 AM



Robin Breuer

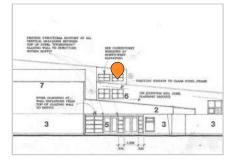
Observations

03 Apr 07:23 PM

The gasket seal between the base of wall flashing and the metal roof is deteriorated in many locations reviewed. We found that the gasket is cracked, or separated from the roof surface. This has resulted in debris and likely water blowing past the primary roof seal.

#25 - Window Test

Priority 2 | Robin Breuer | -Plan: A3 Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 10:50 AM

Robin Breuer 11 Sep 11:08 AM



Robin Breuer

We tested two clerestory windows with report leakage into the hall below. We sprayed the perimeter of the windows with a spray wand. No active leakage was observed into the interior space below.

03 Apr 07:38 PM

#18 - Steel Exterior Doors

Priority 2 | Robin Breuer | -Plan: A3

Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 02:15 PM

Robin Breuer 11 Sep 02:15 PM



Robin Breuer

11 Sep 02:15 PM



Robin Breuer

Observations
The exterior steel doors are all in similar condition. Corrosion is observed on most doors.

03 Apr 07:09 PM

#19 - Rooftop Mechanical Units

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



Robin Breuer 11 Sep 09:55 AM



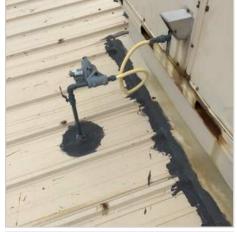
Robin Breuer

11 Sep 09:55 AM



Robin Breuer

11 Sep 09:55 AM



Robin Breuer

11 Sep 09:56 AM



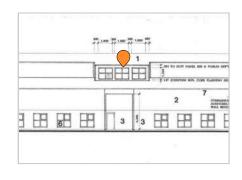
Observations Remedial membrane work has been performed to seal the mechanical units to the metal

roofing

#35 - Gutter Drains

Priority 2 | Robin Breuer | -Plan: A3

Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 11:31 AM

Robin Breuer

Observations

03 Apr 08:12 PM

Roof gutters drain onto the lower roofs. This has resulted in more advanced corrosion of the metal roof components below the downspouts.

#40 - Gutter Interface with Wall

Priority 2 | Robin Breuer | -

Plan: A3

Created 09-12-2018



Robin Breuer 11 Sep 12:02 PM



Robin Breuer

11 Sep 12:03 PM



Robin Breuer

11 Sep 02:46 PM



Robin Breuer

Observations

03 Apr 08:28 PM

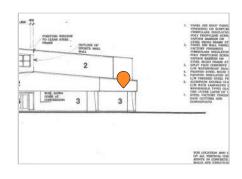
- 1. Remedial membrane work has been performed at the wall to roof interface leading up to the gutter
- 2. Efflorescence was observed on the face of the block below the gutter.
- 3. Moisture was observed at the base of the block wall below the gutter termination.

#36 - Metal Soffit

Priority 2 | Robin Breuer | -

Plan: A3

Created 09-12-2018



11 Sep 11:59 AM

11 Sep 11:59 AM

Task messages (time in PDT)

Robin Breuer



Robin Breuer



Robin Breuer

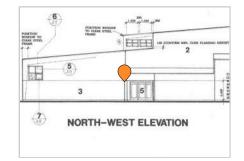
Observations
Corrosion of the metal soffit was observed. Ensure the exhaust ducts do not vent into the soffit

03 Apr 08:14 PM

#29 - Exterior Steel Columns

Priority 2 | Robin Breuer | -Plan: A3

Created 09-12-2018



Robin Breuer 11 Sep 11:53 AM



Robin Breuer

Observations

03 Apr 07:59 PM

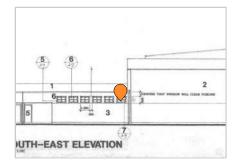
The paint on the metal columns requires renewal. As there is corrosion on most of the posts the paint renewal will require advanced surface preparation.

#15 - Window in Metal Wall Panel

Priority 2 | Robin Breuer | -

Plan: A3

Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 02:09 PM

Robin Breuer 11 Sep 02:10 PM



Robin Breuer

11 Sep 02:11 PM



Robin Breuer

11 Sep 02:11 PM



Robin Breuer

11 Sep 02:12 PM



- 1. water staining behind window sill flashing.
- 2. Corrosion of metal panel at fastener holes.
- 3. Corrosion of metal jamb flashing at cut ends.
- 4. Failed sealant at window sill.

#23 - Roof Edge Flashing

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



11 Sep 10:15 AM

Task messages (time in PDT)

Robin Breuer



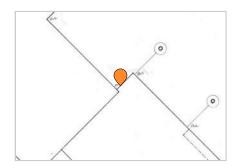
Robin Breuer

The edge flashing has lifted off the sealant exposing the edge of the metal roofing below.

03 Apr 07:31 PM

#13 - Wall Cladding to Roof Interface

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



Robin Breuer 11 Sep 01:00 PM



Robin Breuer

11 Sep 01:00 PM



Robin Breuer

11 Sep 01:01 PM



Robin Breuer

Observations

03 Apr 09:58 AM

The joint between the metal roofing and the base of the metal panels has been sealed with liquid roof membrane. Although this remedial procedure may have reduced water leakage into the building, it has also restricted drainage from the metal panels.

#10 - Roof Mechanical Penetrations

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



11 Sep 12:55 PM

Task messages (time in PDT)

Robin Breuer



Robin Breuer



Robin Breuer



11 Sep 12:55 PM

11 Sep 12:55 PM



Robin Breuer

11 Sep 12:56 PM



Robin Breuer

11 Sep 12:57 PM



Robin Breuer

11 Sep 12:57 PM



Observations

There are multiple mechanical penetrations through the metal roof. All locations have had liquid membrane repairs performed. Several of the repairs have failed at locations including pipe and cable penetrations through the roof.

• #16 - Metal Wall Panel Corner Above Block

Priority 2 | Robin Breuer | -

Plan: A3

Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 01:37 PM

Robin Breuer



11 Sep 01:38 PM

Robin Breuer 11 Sep 01:38 PM



Robin Breuer

11 Sep 01:39 PM



Robin Breuer

Observations

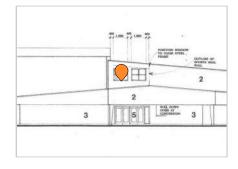
- 1. Bugs behind metal wall panel.
- 2. Metal cladding corrosion at fastener holes.
- 3. Wet insulation at the base of the insulation.
- 4. Poorly jointed/sealed sill flashing over block wall below.

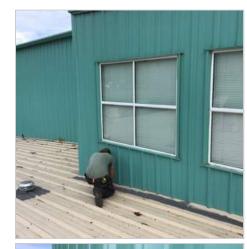
03 Apr 10:07 AM

• #39 - Metal Cladding Below Window

Priority 2 | Robin Breuer | -Plan: A3

Created 09-12-2018





Robin Breuer

11 Sep 12:38 PM



Robin Breuer

11 Sep 12:39 PM



Robin Breuer

11 Sep 12:40 PM



Robin Breuer 11 Sep 12:41 PM



Robin Breuer

11 Sep 12:42 PM



Robin Breuer

Observations

- Remedial sealant is installed around the perimeter of the window.
 The insulation below the window was clean and free from significant staining.

03 Apr 08:23 PM

• #22 - Roof Edge Cap

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018





Robin Breuer



Robin Breuer



Robin Breuer



11 Sep 10:05 AM

11 Sep 10:05 AM

11 Sep 10:06 AM



Robin Breuer

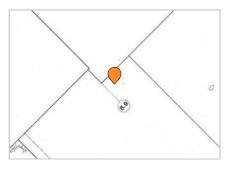
Observations

03 Apr 07:30 PM

- 1. Fasteners securing the edge flashing are corroded.
- 2. The butyl sealant seal between the roof and the edge flashing is dried and not effective to keep water away from the fastener holes.
- 3. The joint between the edge flashings are not sealed.

• #9 - Wall Cladding Corner Post

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 12:53 PM

Robin Breuer 11 Sep 01:03 PM



Robin Breuer

Observations

We removed a corner post above a base of wall remedial detail. There was no significant staining observed on the upper insulation behind the corner post. We did observe an accumulation of debris at the base flashing below the corner post. The bottom of the insulation in the corner post had signs of moisture contact. The base of wall details for a building of this type can result in the lower portion of the insulation to wick water up from horizontal flashings.

01 Apr 11:11 AM

#8 - Roof to Wall Interface

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 12:49 PM



Robin Breuer

11 Sep 12:50 PM

Robin Breuer

Observations

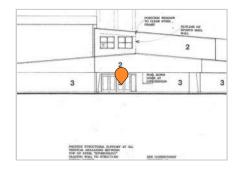
01 Apr 11:07 AM

Liquid membrane has been installed a the transition between the wall panels and roof panels to address water leakage. This is located above the end of the roof indicating that it could be a common roof termination issue.

• #34 - Storefront Windows and Doors

Priority 2 | Robin Breuer | -Plan: A3

Created 09-12-2018



Robin Breuer 11 Sep 11:58 AM



Robin Breuer

11 Sep 11:58 AM



Robin Breuer

11 Sep 11:58 AM



Robin Breuer

Observations Windows and doors have recently been installed at the entry and side entry of the building. Sealant is installed at the jambs and head. No sealant is installed at the sill to allow for drainage.

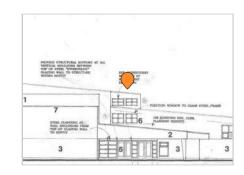
03 Apr 08:11 PM

• #2 - Roof Edge Transition To Cladding

Priority 2 | Robin Breuer | -

Plan: A3

Created 09-11-2018

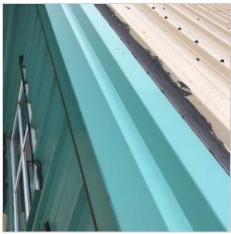


Task messages (time in PDT)

Robin Breuer



Robin Breuer



Robin Breuer



11 Sep 09:29 AM

11 Sep 09:29 AM

11 Sep 09:29 AM

Robin Breuer 11 Sep 09:30 AM



Robin Breuer

Observations

29 Mar 11:51 AM

- 1. The weather gaskets are loose and falling out in some locations. The weather gaskets are also intended to keep insects out.
- 2. Remedial sealant has been installed between the metal roof and the edge flashing.
- 3. Corrosion through the metal edge flashing is noted at the corner joint.
- 4. Corrosion of the metal cladding was identified under the roof edge flashing.

#12 - Photovoltaic Panels

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 12:57 PM

Robin Breuer 11 Sep 12:58 PM



Robin Breuer

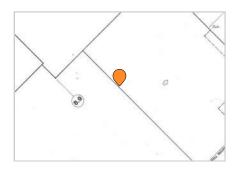
Observations

01 Apr 11:22 AM

- 1. Significant pine needle debris has accumulated around the photovoltaic panels.
- The metal panels supports have been secured directly through the metal roofing panels.
 Corrosion on the support legs at the metal panel was identified. The corrosion could affect
- 3. Corrosion on the support legs at the metal panel was identified. The corrosion could affect the bond of the caulking seal to the metal roofing.

#42 - Metal Roof Ridge

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 04-03-2019



Task messages (time in PDT)

Robin Breuer



Robin Breuer

Observations Membrane patches have been installed along the metal roofing ridge flashing to seal damage.

03 Apr 08:41 PM

03 Apr 08:40 PM

• #45 - Soffit Space Below Gutter

Priority 2 | Robin Breuer | -

Plan: A2

Created 04-03-2019



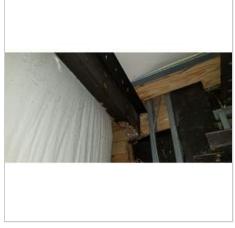
Task messages (time in PDT)

Robin Breuer



03 Apr 08:48 PM

Robin Breuer



03 Apr 08:48 PM

Robin Breuer

Observations

We noted surface corrosion on the steel structure at the roof eave below the gutter. This was observed from within the soffit space.

03 Apr 08:49 PM

#43 - Roofing Fasteners

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 04-03-2019



Robin Breuer 03 Apr 08:42 PM



Robin Breuer

Observations

03 Apr 08:43 PM

Surface corrosion was observed on most roofing fasteners. This indicates that the fasteners have reached the end of their useful service life.

#44 - Roof Vapour Barrier

Priority 2 | Robin Breuer | -

Plan: A2

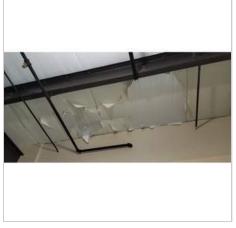
Created 04-03-2019



Task messages (time in PDT)

Robin Breuer

03 Apr 08:45 PM



Robin Breuer

Observations

03 Apr 08:46 PM

The vinyl coating on the insulation blankets is delaminating at localized areas. This should not affect the vapour resistance of the blanket, but it could be an indication that there is moisture in the insulation.

#47 - Thermal Scan

Priority 2 | Robin Breuer | -

Plan: A2

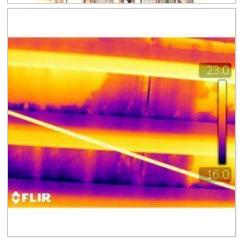
Created 04-04-2019



Task messages (time in PDT)

Robin Breuer





04 Apr 11:17 AM

04 Apr 11:17 AM

Robin Breuer

Dark blue indicates colder temperature and could be contributed to water in the insulation blanket.

04 Apr 01:45 PM

• #46 - Thermal Scan

Priority 2 | Robin Breuer | -

Plan: A2

Created 04-04-2019

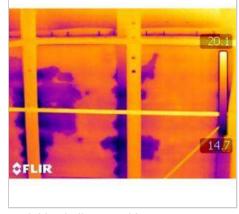


Robin Breuer 04 Apr 11:14 AM



Robin Breuer

04 Apr 11:14 AM



Robin Breuer

Dark blue indicates colder temperature and could be contributed to water in the insulation blanket.

04 Apr 11:16 AM

• #49 - Thermal Scan

Priority 2 | Robin Breuer | -Plan: A2

Created 04-04-2019



Robin Breuer 04 Apr 02:05 PM



Robin Breuer

04 Apr 02:05 PM



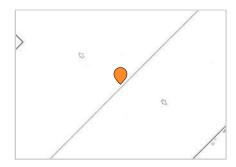
Robin Breuer

Dark blue indicates colder temperature and could be contributed to water in the insulation blanket.

04 Apr 02:05 PM

• #20 - Metal Roof Ridge Cap Exploratory Opening

Priority 2 | Robin Breuer | -Plan: A16 - roof PLAN Created 09-12-2018



Task messages (time in PDT)

Robin Breuer



11 Sep 09:57 AM



Robin Breuer

11 Sep 09:57 AM



Robin Breuer

11 Sep 09:58 AM



Robin Breuer

11 Sep 09:58 AM



- 1. Membrane patches are installed at cracks in the metal ridge flashing.
- 2. The metal roofing is corroding at fastener penetrations.
- 3. Insulation below the metal roofing is free from staining at the location reviewed.
- 4. The bottom edge of the metal roofing panel is corroding.
- 5. The butyl sealant at the panel lap joints remains soft and functional.
- 6. The foil vapour barrier is exposed at joints in the insulation blanket indicating that the insulation value is negligible at joints in the insulation blankets.

#48 - Thermal Scan

Priority 2 | Robin Breuer | -

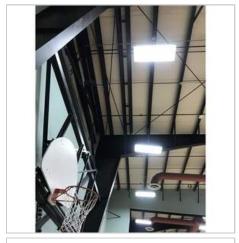
Plan: A2

Created 04-04-2019



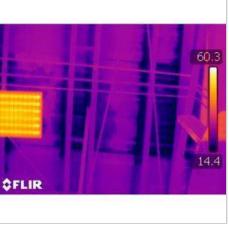
Task messages (time in PDT)

Robin Breuer



04 Apr 02:02 PM

Robin Breuer



04 Apr 02:02 PM

Robin Breuer

Dark blue indicates colder temperature and could be contributed to water in the insulation blanket.

04 Apr 02:02 PM

#50 - Thermal Scan at Active Leak Location

Priority 2 | Robin Breuer | -

Plan: A2

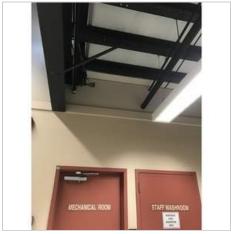
Created 04-04-2019



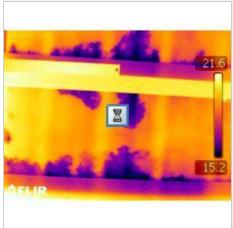
04 Apr 02:06 PM

Task messages (time in PDT)

Robin Breuer



Robin Breuer



04 Apr 02:06 PM

• #52 - Thermal Scan at Previous leak Location

Priority 2 | Robin Breuer | -

Plan: A2

Created 04-04-2019





Robin Breuer

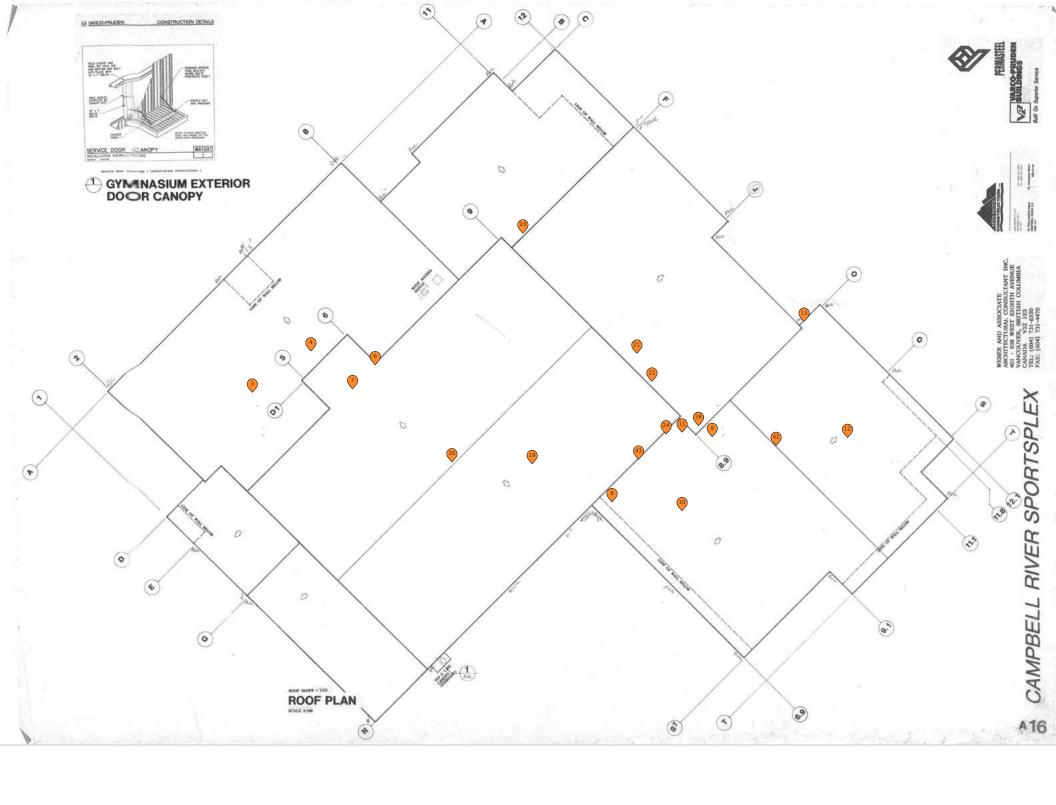
04 Apr 02:18 PM



Robin Breuer

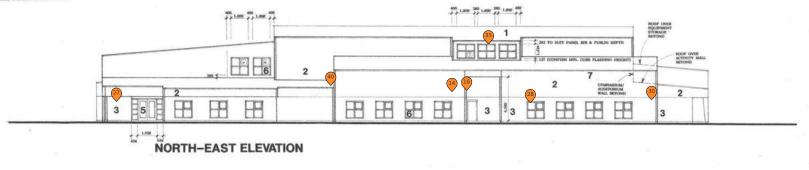
Dark blue indicates colder temperature and could be contributed to water in the insulation blanket.

04 Apr 02:19 PM



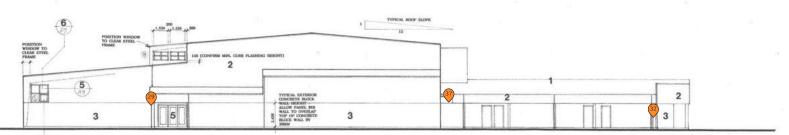




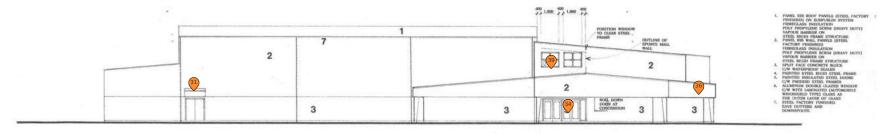




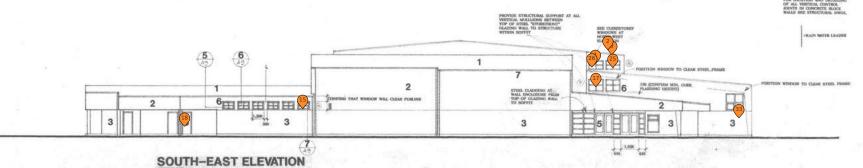




NORTH-WEST ELEVATION



SOUTH-WEST ELEVATION



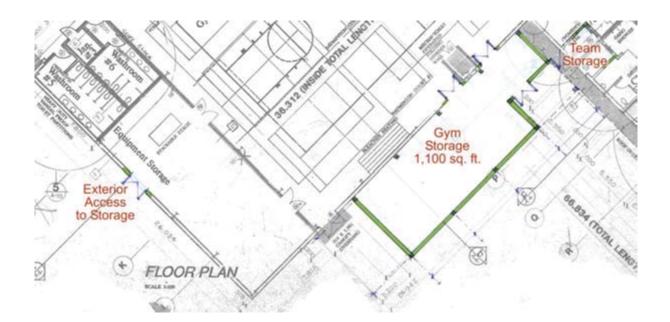
CAMPBELL RIVER SPORTSPLEX

Gym Storage Expansion

Storage space is currently inadequate, awkward for programing, and in need of additional area in order to remove the shipping container being used for storage overflow. One of the difficulties with the current storage situation is that only one gym has direct access to the storage room. This means when the gyms are divided the activities in the gym closest to the storage room are disturbed while set up and take down of activities are underway in the far gym. In an attempt to reduce the amount of disruption, set-up time is extended which shortens the time available for activities.

To address the shortage and accessibility of the gym storage, a new storage room is proposed on the southwest side of the gyms. This room would have access to both sides of the gym so that either gym could access without disturbing the other side. Items in this room would be those that might be needed by either gym. Access is also provided directly to the exterior for loading directly into either gym during special events.

The existing storage room would continue as a general storage for administration and the overall facility, items only needed by the north gym, as well as storage for items which are associated with the outdoor activities and the summer camps. Exterior doors are added to provide direct access from the exterior.





CAMPBELL RIVER SPORTSPLEX CAMPBELL RIVER, BC



26th August, 2016

10. GYM STORE					215,200
SUBSTRUCTURE					16,000
Foundations					
Strip footings, including excavation and	123	m²	130.00	16,000	
formwork				-,	
STRUCTURE					49,000
Lowest Floor Structure					
Slab on grade, say 150mm thick	123	m²	85.00	10,500	
Roof Structure					
New OWSJ and metal deck roof structure to					
extension to be structurally separate from	123	m²	313.00	38,500	
existing					
EXTERIOR ENCLOSURE					79,200
Walls Above Grade					77,200
New exterior walls to extension: Metal					
Cladding, Hat Channel, 50mm Semi-Rigid					
Insulation, Horizontal Z-Girts at 600mm oc, Air					
Barrier, 16mm Ext Grade GWB, 150mm Steel	159	m²	374.80	59,800	
Studs at 400mm oc, Batt Insulation, Vapour					
Barrier, GWB, Paint					
Windows & Exterior Doors					
Hollow metal exterior double swing doors with	4	Б.	4 500 00	4 500	
hardware and frame	1	Pair	1,500.00	1,500	
Roof Finish					
New roof to match existing - 2-ply SBS	123	m²	145.50	17,900	
PARTITIONS & INTERIOR DOORS					14,300
Standard Partitions					14,500
16mm GWB one side to former exterior wall	86	m²	110.00	9,500	
Interior Doors		1111	110.00	7,300	
Hollow metal double swing doors with					
hardware and framing for new doors	2	Pairs	2,400.00	4,800	
That divide of the maximing for more doors					
FINISHES					4,500
Floor Finishes					
Sealed concrete flooring	123	m²	15.00	1,800	
Ceiling Finishes					
Exposed ceiling finish to new extension, paint	123	m²	14.00	1,700	
Wall Finishes					
Paint to interior walls	86	m²	12.00	1,000	

2187/G160826Est LEC GROUP

CAMPBELL RIVER SPORTSPLEX CAMPBELL RIVER, BC

F

26th August, 2016

MECHANICAL					23,200
Drain tile c/w drain rock, filter cloth etc.	40	m	70.00	2,800	
Add roof drains c/w local pipework, insulated and tied into existing	1	Sum	7,500.00	7,500	
Add sprinkler heads incl. seismic, engineering etc.	18	Heads	300.00	5,400	
Heating & ventilation - allowance	123	m²	55.00	6,800	
General contractor's on site overhead costs related specifically to the Mechanical trade	1	Sum	700.00	700	
ELECTRICAL					19,100
Distribution Systems	1	Sum	3,690.00	3,700	
Lighting & Utility Power Systems	1	Sum	8,610.00	8,600	
Communications Systems	1	Sum	6,150.00	6,200	
General contractor's on site overhead costs related specifically to the Electrical trade	1	Sum	600.00	600	
SITEWORK					5,000
Landscaping					
Tie in new extension to landscaping	1	Sum	5,000.00	5,000	
ANCILLARY WORK					4,900
<u>Demolition</u>					
Cut exterior walls for 2 new double door sets	8	m²	75.00	600	
Remove exterior wall cladding	86	m²	50.00	4,300	

GENERAL REQUIREMENTS AND FEE		44,700
General Requirements	15%	32,300
Fee	5%	12,400

CONTINGENCIES - STIPULATED BY CITY OF (CAMPBELL RIVER COUNCIL POLICY	182,000
General Contingency	25%	65,000
Engineering, Legal, Construction, Financial, Administration Costs	25%	65,000
Inflation Allowance	20%	52,000

CONSTRUCTION TOTAL (Excluding GST)	441,900

2187/G160826Est LEC GROUP



Adopted: March 13, 2006 Council Resolution No. ic06-0065

8. CAPITAL PROJECT MANAGEMENT

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Adopted: March 13, 2006 Council Resolution No. ic06-0065

8.1 CAPITAL PROJECT MANAGEMENT

8.1.1 PURPOSE

To achieve the best value, to protect the integrity of the City's infrastructure, and to provide a logical and transparent process for the delivery of all capital projects.

8.1.2 GENERAL STATEMENT

The City, through the provision of services as a local government, must undertake capital projects of various scope and size. The responsibility for capital project administration (from design through to construction) is generally positioned within the Engineering Services Department.

The considerations outline herein are to be used as guidelines and used in tandem with the Engineering Services Manager's professional discretion and judgment.

8.1.3 CORPORATE PRINCIPLES

8.1.3.1 PROFESSIONAL ETHICS

Employees shall not use their authority or office for personal gain and shall seek to uphold and enhance the City's image by:

- maintaining unimpeachable standards of integrity in all their business relationships;
- fostering the highest standard of professional competence amongst City employees;
- maximizing the use of resources for which they are responsible so as to receive the maximum benefit for the City.

8.1.3.2 DECLARATION OF INTEREST

Any personal interest which may encroach or may reasonably be deemed by others to affect the impartiality of an employee in any matter relevant to their duties, should be declared by the employee to their supervisor.

8.1.3.3 CONFIDENTIALITY & ACCURACY OF INFORMATION

Information received in the course of duty must be respected and shall not be used for personal gain. Information given in the course of duty should be true, fair and not designed to mislead.

8.1.3.4 COMPETITION

When considering the advantages to the City of maintaining a continuing relationship with a contractor, any arrangement which might in the long term prevent the effective operation of fair competition, should be avoided.

8.1.3.5 GIFTS

To preserve the image and integrity of employees and the City, business gifts should be actively discouraged. Gifts, other than those of very small intrinsic value, shall not be accepted.



Adopted: March 13, 2006 Council Resolution No. ic06-0065

8.1.4 BUDGET

Department Managers are responsible for ensuring budget funds are available in duly authorized accounts before making commitments for any capital projects.

8.1.5 CAPITAL PROJECT MANAGEMENT GUIDELINES

8.1.5.1 CAPITAL PROJECTS TO BE COMPLETED BY CITY FORCES

The City is the owner and operator of the public utilities which includes the potable water treatment and delivery system, the sanitary sewage collection and treatment system and the rainwater collection and treatment system. The City recognizes its legal and moral obligations to ensure the integrity and effectiveness of these systems and as such will retain all responsibilities for the operations, maintenance and capital renewal of all existing underground City utilities. Should circumstances be such that in-house resources are not available to undertake such operations, maintenance and capital renewal works, this work may be contracted out if so approved by the appropriate authority as detailed in section 8.1.6.

8.1.5.2 CAPITAL PROJECTS TO BE COMPLETED BY EXTERNAL FORCES

Apart from incidental works and repairs, the City will contract out all capital works not specifically described in section 8.1.5.1 above. This would generally include roads, sidewalk, curbing, electrical, traffic signals, landscaping, pumping and treatment facilities and also includes the installation of any new or extended underground utilities. Should circumstances be such that contracted services are not readily available or should there be evidence that suggests that alternate means of completing these capital works would be in the City's best interest, then alternate construction means may be pursued subject to the approval of the appropriate authority as detailed in section 8.1.6.

8.1.6 CAPITAL PROJECT MANAGEMENT PROCEDURE

8.1.6.1 CAPITAL PROJECTS UNDER \$250,000

For capital projects with a total value of less than \$250,000, the Department Manager or designate will evaluate the capital project in terms of the estimated cost, budget availability, anticipated construction schedule, and construction management alternatives and will obtain the approval of the Director as to how the capital project shall be managed.

8.1.6.2CAPITAL PROJECTS BETWEEN \$250,000 AND \$1 MILLION

For capital projects with a total value between \$250,001 and \$1 million, the Department Manager or designate will evaluate the capital project in terms of the estimated cost, budget availability, anticipated construction schedule, and construction management alternatives and will obtain the approval of the Director and the City Manager as to how the capital project shall be managed.

8.1.6.3 CAPITAL PROJECTS EXCEEDING \$1 MILLION

For all projects with a total value exceeding \$1 million, the Department Manager or designate will evaluate the capital project in terms of the estimated cost, budget availability, anticipated construction schedule, and construction management alternatives and will obtain the approval of the Director, City Manager and Council as to how the capital project shall be managed.



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Such approval by Council to proceed with construction should not be given for any capital project exceeding \$1,000,000 unless all of the following steps have first been completed:

- Capital project concept is proposed (by staff, Council or general public) and presented to Council for formal consideration.
- ii) Council endorses the capital project concept and directs staff to proceed with a feasibility study. The feasibility study must define the anticipated scope of the project concept, review the technical merits of the project concept, provide order of magnitude cost estimates (Class 'D'), review the financial impacts of the project concept and review the City's financial capacity, establish probable project start and completion dates, and identify all available options for managing the conceptual project through to completion.
- iii) Council reviews and accepts the findings of the feasibility study and then directs staff to proceed with a preliminary design. The preliminary design must include a recommendation on the final scope of the project, provide a Class 'C' cost estimate, establish a preliminary financing strategy for the project, provide a preliminary construction schedule and a recommended project management strategy.
- iv) Council reviews and accepts the findings of the preliminary design and directs staff to proceed with detailed design. The detailed design would provide a clearly defined detailed final scope of work, a Class 'A' or pre-tender cost estimate, a detailed project schedule, a detailed financing strategy and a detailed project management strategy.
- v) Council reviews and accepts the findings of the detailed design and directs staff to proceed to tender (if constructed by outside forces) or to construction (if constructed with in-house forces). If required, tenders would be prepared and issued in accordance with the City's purchasing policies.
- vi) If the project is tendered, Council reviews and awards the tender, subject to the project budget, schedule and management strategy being consistent with the final detailed design report.
- vii) Upon project completion, a final post-construction review report on the project will be presented to Council. The final post-construction report must provide a description of the final scope of work, a summary of actual construction costs, a summary of the actual construction schedule, a comparison with the detailed design report and a list of recommendations for further improving future capital projects.

8.1.7 DEFINITIONS

8.1.7.1 CLASS A ESTIMATE (FINAL DESIGN OR PRE-TENDER)

This is the highest level of estimate, based on quantities and unit prices from a detailed design or direct quotation by supplier. The detailed design should be in the order of 95% to 100% complete. This category is to be used to confirm that the project is within available budget prior to proceeding or prior to issuing tender documents and is also used to evaluate tender submissions. Class A estimates will be reviewed and approved by a qualified professional engineer with appropriate project-related experience and expertise.

Class A estimates to include the following:

10% general contingency allowance



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- 10% allowance for engineering, legal, construction, financial and administration costs
- 5% contingency allowance for inflation
- review and approval by a qualified professional engineer

8.1.7.2 CLASS B ESTIMATE (50% DESIGN)

This estimate is based on the early stages of detailed design work and is used as a check to ensure that the project is not substantially outside of the budgetary estimates established during the preliminary design stage. The detailed design should be between 40 and 60% complete, with all necessary site investigations and studies completed. Quantities should be accurate within 80% of the final design.

Class B estimates to include the following:

- 20% general contingency allowance
- 20% allowance for engineering, legal, construction, financial and administration costs
- 15% contingency allowance for inflation

8.1.7.3 CLASS C ESTIMATE (PRELIMINARY DESIGN)

This estimate is based on the preliminary design that provides a recommended scope of work for the specific project. It includes estimates for consultant design fees where a proposal has not been received. This category is prepared with limited site information and is based on probable conditions affecting the project and past experiences with similar projects.

Class C estimates to include the following:

- 25% general contingency allowance
- 25% allowance for engineering, legal, construction, financial and administration costs
- 20% contingency allowance for inflation

8.1.7.4 CLASS D ESTIMATE (FEASIBILITY STUDY)

This estimate is based on little or no site specific detailed engineering but provides magnitude of order or 'ball park' estimates and is derived from lump sum or unit costs from comparable projects of similar magnitude. This category is used in developing long term capital plans and for comparing conceptual options.

Class D estimates to include the following:

- 30% general contingency allowance
- 30% allowance for engineering, legal, construction, financial and administration costs
- 25% contingency allowance for inflation