



To: The Owners, Strata Plan EPS1945
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Site Visit: March 3 2021
Submitted: January 12, 2022 by
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1 Introduction

RDH Building Science Inc. (RDH) was retained by Strata Plan EPS1945 (the Owners) to prepare a Depreciation Report (the Report) for the building known as Remix, which is located at 733 14th Street, North Vancouver, BC. Remix is comprised of Sections (Joint, Residential, and Commercial) and this Report is prepared for the Joint and Residential Sections. The Report considers the common property and limited common property components (the Assets) that the Strata Corporation is responsible to maintain, repair, and replace.

The Report is intended to help the Owners, the Strata Council, and the Property Management team make informed decisions about the allocation of resources to the common property Assets (such as roofs, windows, piping, and paving).

This Report meets the requirements stipulated in the current Strata Property Act and Regulations (the Act). The Report includes a physical inventory of the common property Assets; estimated costs for capital expenditures over a 30-year horizon; and four funding models. Refer to the Appendices for RDH's qualifications and information on errors and omissions insurance. In accordance with the requirements of the Act, RDH declares that there is no relationship between the employees of RDH and the Owners.

A site visit was completed on March 3, 2021, and the financial data is based on the 2021/2022 fiscal year. A draft Report was distributed to the Strata Council and Strata Management on July 16, 2021. Feedback from the Strata Council was incorporated into the final report, which was issued on January 12, 2022.

The Depreciation Report is a synopsis of a significant volume of data and has two parts: the Summary and the Appendices. The Summary is intended to provide an overview of the Depreciation Report. The Appendices provide detailed information to support the Summary Report. The Appendices include a glossary of terms. Words that are *italicized* are defined in the glossary.



As the physical and financial status of the Assets change over time, the Report will require updating. The Strata Property Act requires updates to the Report every three years; however, the Strata Corporation can choose to update portions of the Report more frequently, at their discretion, to reflect changes to their financial status and completed work.

2 Remix

Remix is an approximately 7-year-old (as of 2021), low-rise, mixed-use building with commercial and residential sections. The building is of wood-framed construction on Levels 2-4, and cast-in-place concrete construction on the ground floor and below-grade parkade.

The principal systems in the building include the building enclosure (the separation of the interior from exterior space), electrical (the electrical distribution, communications, and security equipment), mechanical (heating and plumbing), elevator, fire safety (sprinklers, fire detection, and egress equipment), interior finishes, amenities, and site work. The Assets within each system are described in detail in Appendix B.

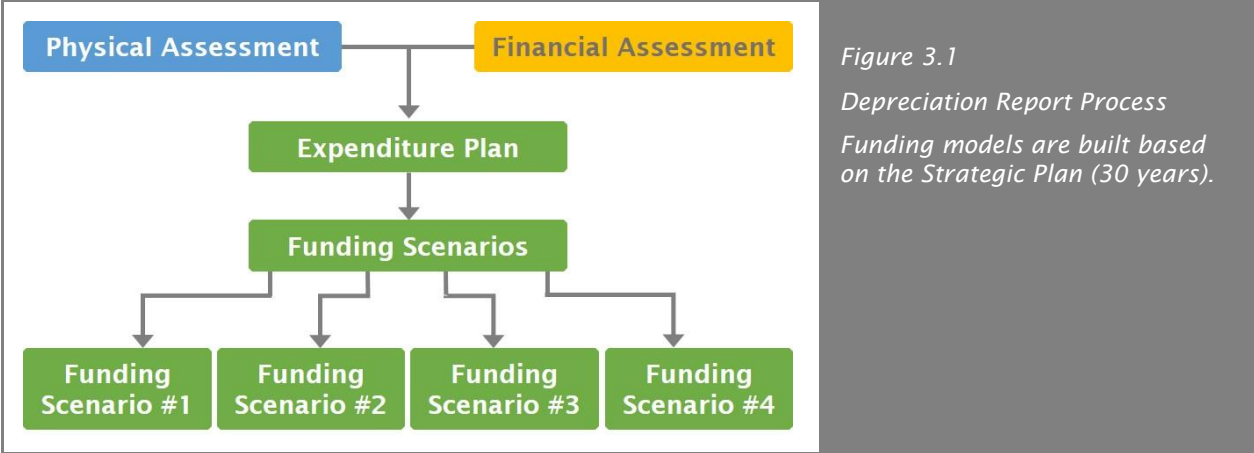
Key physical parameters of Remix are summarized in Table 2.1, Figure 2.1, and Figure 2.2 below.

| TABLE 2.1 KEY PHYSICAL PARAMETERS | | |
|--|---|---------|
|  <p><i>Figure 2.1 North elevation photograph of Remix</i></p> | Date of first occupancy (approximate) | 2014 |
| | Approximate gross floor area, including the parkade (ft ²) | 103,500 |
| | Total area of Unit Entitlement (m ²) | 5,488 |
| | Stories above-grade | 4 |
| | Number of strata lots | |
| | <ul style="list-style-type: none"> → Commercial 10 → Residential 60 <li style="text-align: right;">Total 70 | |
|  <p><i>Figure 2.2 Aerial photograph of Remix (Imagery ©2021 Google).</i></p> | | |

3 Assessments

Depreciation Reports combine two distinct types of analysis: a *physical assessment*, and a *financial assessment*. The assessments are used to determine what the Strata Corporation owns, what condition the Assets are in, what the Strata is responsible for, and the *capital costs* associated with the Assets.

The process of preparing a Depreciation Report is summarized in Figure 3.1 below:



The following sections provide a brief overview of the physical assessment and financial assessment including a summary of key information.

3.1 Physical Assessment

The physical assessment has two parts: an inventory and an evaluation.

The *Asset Inventory* identifies “the common property, the common Assets and those parts of a strata lot or limited common property, or both, that the Strata Corporation is responsible to maintain or repair under the Act, the Strata Corporation’s bylaws or an agreement with an Owner” (*Strata Property Act Regulation, BC Reg 43/2000, Ch. 6.2*). In other words, it identifies what the Strata Corporation owns and must repair and maintain. The Asset Inventory is included as an appendix to this Report.

Some Assets have been identified as Placeholders. Placeholder Assets are included in the Asset Inventory for reference purposes; however, they are not included in the financial analysis and do not affect the funding models or other financial calculations. Placeholder Assets are identified based on typical agreements with utilities, the Strata Corporation bylaws, and information provided by the Strata Manager and Council. A summary of Placeholder Assets is provided in Table 3.1 below.

| TABLE 3.1 SUMMARY OF PLACEHOLDER ASSETS | |
|---|--|
| ASSET | PARTY RESPONSIBLE FOR CAPITAL EXPENDITURES |
| Mech 21 - Heat Exchanger - LEC | → Lonsdale Energy Corporation (LEC) |
| Site 08 - Electrical Site Services | → BC Hydro |
| Site 11 - Underground Natural Gas Service | → Fortis BC |

The evaluation is used to forecast common repairs, replacements, and maintenance activities that “usually occur less often than once a year or that do not usually occur” (*Strata Property Act Regulation, BC Reg*

43/2000, Ch.6.2). In other words, the evaluation predicts only events that occur at intervals greater than one year.

The evaluation is typically based on:

- A review of historical documentation, such as minutes, invoices, and the general ledger,
- Discussions with Strata Corporation representatives,
- A visual review of the building, limited to a sample of readily accessible Assets, and
- A review of other technical information, such as construction drawings, previous investigations or reports, and maintenance manuals.

Destructive testing, disassembly, and performance testing are not included in the physical evaluation; this Report does not replace a Warranty Review or Condition Assessment. Please visit www.rdh.com for additional information on Warranty Reviews and Condition Assessments.

The condition of some Assets may be concealed, for example, buried infrastructure (such as sanitary drainage lines) or building enclosure Assets (such as cladding). For Assets with the potential for concealed failure, a number of tools are used to assign a reasonable expected service life including the typical performance of the Asset in other, similar properties; the performance history reported by the Strata Corporation; the original drawings; and any previous investigation reports commissioned by the Strata Corporation. It is expected that the Strata Corporation will need more detailed reviews as Assets approach the end of their service lives. Allowances for additional reviews or investigations are included, as appropriate. Recommendations taken from any additional reviews should be incorporated into future Depreciation Report updates.

As part of the physical assessment, RDH compiled a history of completed projects by reviewing the documents provided by the Strata and interviewing Strata Corporation representatives. The history is summarized in Table 3.2 below. The history of renewals establishes the chronological age of the Assets while the history of major maintenance may affect the effective age of the Assets.

| TABLE 3.2 MAINTENANCE AND RENEWALS HISTORY |
|---|
| <p>Building Enclosure</p> <ul style="list-style-type: none"> → 2021 - Commissioned a roof review by BC Roof Inspections. → 2019 - Commissioned 5-Year Warranty Review by JRS Engineering. → 2019 - Commissioned 5th Year Annual Building Envelope Review by Aqua-Coast Engineering. → 2018 - Localized roof leak repair above Unit #408. → 2016 - Completed roof repairs and maintenance by Design Roofing. → 2015 - Commissioned 15-Month Warranty Review by Sense Engineering. → 2014 - Commissioned a roof inspection by BC Roof Inspections. |
| <p>Electrical</p> <ul style="list-style-type: none"> → 2018 - Replaced light fixtures in water feature. |
| <p>Mechanical</p> <ul style="list-style-type: none"> → 2021 - Repaired and replaced hydronic loop pumps. |

TABLE 3.2 MAINTENANCE AND RENEWALS HISTORY

- 2021 - Replaced LEC heat exchanger.
- 2020 - Replaced two storm sump pumps.
- 2020 - Overhauled water feature pump.
- 2018 - Replaced five storage tanks and installed a new heat exchanger and filter.
- 2018 - Repaired 2.5" backflow prevention valve. BPV's are winterized annually and cleaned every four years.
- 2018 - Replaced two 2" check valves and installed 3" PVC piping from sanitary sump to city connection.
- 2016/2017 - Replaced sanitary sump pumps.
- 2016 - Replaced heat exchanger.
- Annually - Cleaned sumps and catch basins.

Elevator

- 2021 - Repairs to elevator shaft/pit due to flood damage caused by power outage.
- 2020 - Installed a fan in elevator and repaired inset lights and ballast to prevent possible fire hazard.
- 2018 - Repaired elevator shaft/pit due to flood damage.

Interior Finishes

- 2021 - Repaired common changeroom/washroom due to water damage from shower fixture left running. Repairs included new swing door, two exhaust fans, baseboard heater, and interior finishes.

On March 3, 2021, a representative of RDH visited the site to visually review the Assets. In addition, a sub-consultant, Gunn Consultants, reviewed the elevator. While the Depreciation Report does not constitute a maintenance review or condition assessment, some observations regarding the general condition, design, and construction of the Assets were made as part of the visual review. These observations were used to determine a reasonable estimated remaining service life of various Assets. Table 3.3 includes examples of some observations made during the review.

| TABLE 3.3 OBSERVATIONS BY SYSTEM | |
|----------------------------------|--|
| SYSTEM | OBSERVATION |
| Building Enclosure | <ul style="list-style-type: none"> → The Owners have recently commissioned a review of the roofing membranes by BC Roof Inspections, please see report for more details. → Evidence of water ingress, with staining and efflorescence, into below-grade parkade at Visitor's Parking #1-4 and Stairwells P2 and P3. → Localized delamination of the parkade traffic-bearing membrane at ramp and commercial parkade. → Localized dark staining on wood siding and worn wood protective staining. → Localized delamination of vinyl balcony membrane at perimeter edges. → High humidity in water feature mechanical room and moisture behind water feature wall. → Localized cracks with staining and efflorescence at exterior concrete walls. → Localized efflorescence at brick cladding. → Localized plants growing on wall cladding at rooftop deck. → Localized unsealed cracks with efflorescence and delaminated paint at concrete canopies. → Localized areas of at-grade waterproofing membrane may be exposed to UV. |
| Interior Finishes | → Localized damaged edges of carpet tiles. |
| Amenities | → Delaminated river rocks at water feature wall. |
| Site work | → Localized cracks in concrete paving. |

3.2 Financial Assessment

The financial assessment estimates the future costs associated with the Assets and examines how future funding requirements will be affected by current financial practises. More specifically, the financial assessment identifies:

- The opening balance in the *Contingency Reserve Fund* (CRF).
- The estimated value of capital expenditures, expressed in *Current Year Dollars* (CYD).
- The estimated future value of capital expenditures, expressed in *Future Year Dollars* (FYD). These costs are calculated by applying an inflation rate (2% per year) to the current costs.

The future value of major maintenance and renewal costs can be compared against the building reproduction cost. The building reproduction cost is the cost to reproduce the building in similar materials, in accordance with current market prices, and is obtained from the most recent insurance appraisal.

The financial assessment begins with a review of the current financial situation of the Strata Corporation. Table 3.4 below summarizes the key financial parameters reviewed as part of the financial assessment. The commercial operating budget and CRF balance were not provided.

| TABLE 3.4 KEY FINANCIAL PARAMETERS | |
|---|------------------------------|
| PARAMETER | INITIAL STUDY (2021/2022) |
| Fiscal year end | June 30 |
| Building reproduction cost | \$22,993,000 |
| Operating budget (excluding CRF contribution) | |
| → Joint | \$336,561 |
| → Residential | \$64,110 |
| → Commercial | \$15,913 |
| Total | \$416,584 |
| Annual CRF contribution | |
| → Joint | \$40,000 |
| → Residential | \$12,000 |
| → Commercial | \$1,600 |
| Total | \$53,600 |
| Opening Balance of the CRF* | |
| → Joint | \$92,979 |
| → Residential | \$57,648 |
| → Commercial | \$11,079 |
| Total | \$161,706 |

**The balance in the CRF varies each month as contributions are made and funds are withdrawn for capital renewal projects and major maintenance activities. The CRF balance is reconciled as of June 2021.*

Depreciation Reports include capital costs only: the costs for activities that occur at intervals greater than one year. Activities that occur annually or more frequently than once a year are considered operating expenses and are not included in the Depreciation Report funding models and calculations.

Capital costs can be distributed into three general categories:

- *Catch-up costs.* The cost to complete any deferred maintenance and renewals.
- *Keep-up costs.* The cost to complete planned cyclical maintenance and renewals.
- *Get-ahead costs.* The cost to adapt, upgrade, and improve.

The Depreciation Report is based on keep-up costs. Get-ahead costs (improvements) may also be included, but only if they are required to meet changing codes or standards.

Costs are considered *Class D* estimates ($\pm 50\%$), as defined by the Engineers and Geoscientists of British Columbia (EGBC), or unless noted otherwise. Unless otherwise noted, soft costs, such as consulting fees and contingency allowances are not included, because these costs are highly dependent on the scope of work for a particular project. Scopes of work for specific projects should be developed well in advance so that project budgets, including soft costs, can be refined.

The current value of many major maintenance and renewal activities is calculated by multiplying the quantity of an Asset by standard unit rates (for example, the cost per square foot or cost per linear foot). Quantities are measured from original construction documents and visual observations on site. The unit rates are based on historical information, construction trends, information from contractors, and other

sources as appropriate. Unit rates will fluctuate over time. Basic unit rates are adjusted for the relative complexity of the property. A detailed list of activities and their associated costs are available in Appendix H.

Costing Caveats

The capital costs given in the Depreciation Report provide a basic estimate for long term planning. They are intended to help guide priority setting and provide a clearer sense of timing. They are not suitable for planning specific projects as they cannot account for project soft costs (such as taxes, grants, engineering or design, municipal permits, etc.), or for project specific construction costs (such as access to the work (e.g. scaffold), contingencies, hazardous materials, tippage/disposal, project management, etc.). Such costs cannot be estimated without more information, including a project scope and preliminary design work. Once a project reaches the planning stages, a reasonable assumption of soft costs should be made based on the actual needs of the project. It is recommended that this occurs well in advance of predicted work to allow time to plan for the funding of the soft costs.

4 Expenditures

Maintenance refers to activities that preserve the Assets, to ensure the Assets will last their predicted service lives and perform as expected. *Renewal* refers to the replacement or refurbishment of an Asset at the end of its useful service life.

Major Maintenance refers to maintenance that occurs at intervals greater than one year, for example, every 18 months, two years, five years, etc. (less frequently than once a year). Major Maintenance typically includes activities, such as testing and inspecting, and is considered a capital expense. Minor Maintenance includes maintenance activities that occur once a year or more frequently, such as quarterly or monthly. The costs associated with *Major Maintenance and Renewals* are included in the Depreciation Report funding models, as required by the Strata Property Act. Costs associated with Minor Maintenance are included in the Strata Corporation’s operating budget.

4.1 Major Maintenance and Renewal Expenditures

Table 4.1 below summarizes all major maintenance and renewal costs by system, including costs forecasted for the next 30 years. The values are rounded.

| TABLE 4.1 CAPITAL EXPENDITURES SUMMARY BY SYSTEM | | | | |
|--|---|--|---|--|
| SYSTEM | 10 YEAR CAPITAL COSTS (WITHOUT INFLATION) | 10 YEAR CAPITAL COSTS (WITH INFLATION) | 30 YEAR CAPITAL COSTS (WITHOUT INFLATION) | 30 YEAR CAPITAL COSTS (WITH INFLATION) |
| Structural | \$0 | \$0 | \$0 | \$0 |
| Building Enclosure | \$660,000 | \$740,000 | \$4,900,000 | \$7,100,000 |
| Electrical | \$59,000 | \$65,000 | \$200,000 | \$270,000 |
| Mechanical | \$180,000 | \$210,000 | \$1,300,000 | \$1,800,000 |
| Elevator | \$0 | \$0 | \$120,000 | \$160,000 |
| Fire Safety | \$25,000 | \$27,000 | \$150,000 | \$210,000 |
| Interior Finishes | \$65,000 | \$69,000 | \$250,000 | \$340,000 |
| Amenities | \$11,000 | \$12,000 | \$49,000 | \$68,000 |
| Sitework | \$42,000 | \$48,000 | \$200,000 | \$280,000 |
| Building Total | \$1,042,000 | \$1,171,000 | \$7,169,000 | \$10,228,000 |

Approximately 15% of the Strata Corporation’s capital expenditures may occur in the next 10 years. The distribution of estimated capital expenditures over the next 10 years is shown in Figure 4.1 below.

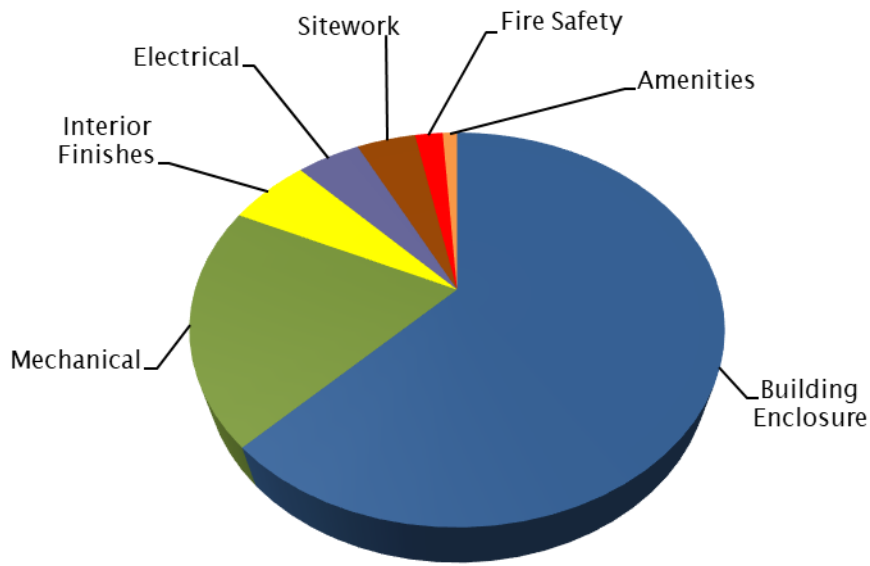


Figure 4.1 Distribution of estimated capital expenditures over 10 years by system.

Section 5 discusses the timing and size of renewal projects forecast for the next 30 years. A detailed list of each major maintenance and renewal activity, including the frequency, costs expressed in Current Year Dollars (CYD), and costs including inflation rates, expressed in Future Year Dollars (FYD) are available to Strata Corporation Owners.



5 Major Maintenance and Renewal Planning Horizons

There are three common planning horizons, used for making different types of capital planning decisions:

- **Strategic** (30 years): The average service life of many of Assets is approximately 25 years (such as roofs) so a long-range view captures most renewal projects. In some cases, an Asset may be replaced more than once in the 30-year horizon.
- **Tactical** (5-10 years): Many residential Owners will own their strata lot for less than 10 years; the Tactical Plan captures projects that may occur while current Owners still have an interest in the Strata Corporation.
- **Operational** (1 year): The annual operating period encompasses one fiscal cycle (12 months). Typically, the budget is presented and approved at the Annual General Meeting (AGM) and will include any capital expenditures paid from the CRF, as well as the CRF contributions for the year. As a minimum, the decision on the CRF contribution should consider projects forecast for the next five to 10 years.

5.1 Strategic Planning Horizon

Estimated major maintenance and renewal costs over the next 30 years are shown on the graph below (Figure 5.1). The red bars represent the estimated value of capital costs.

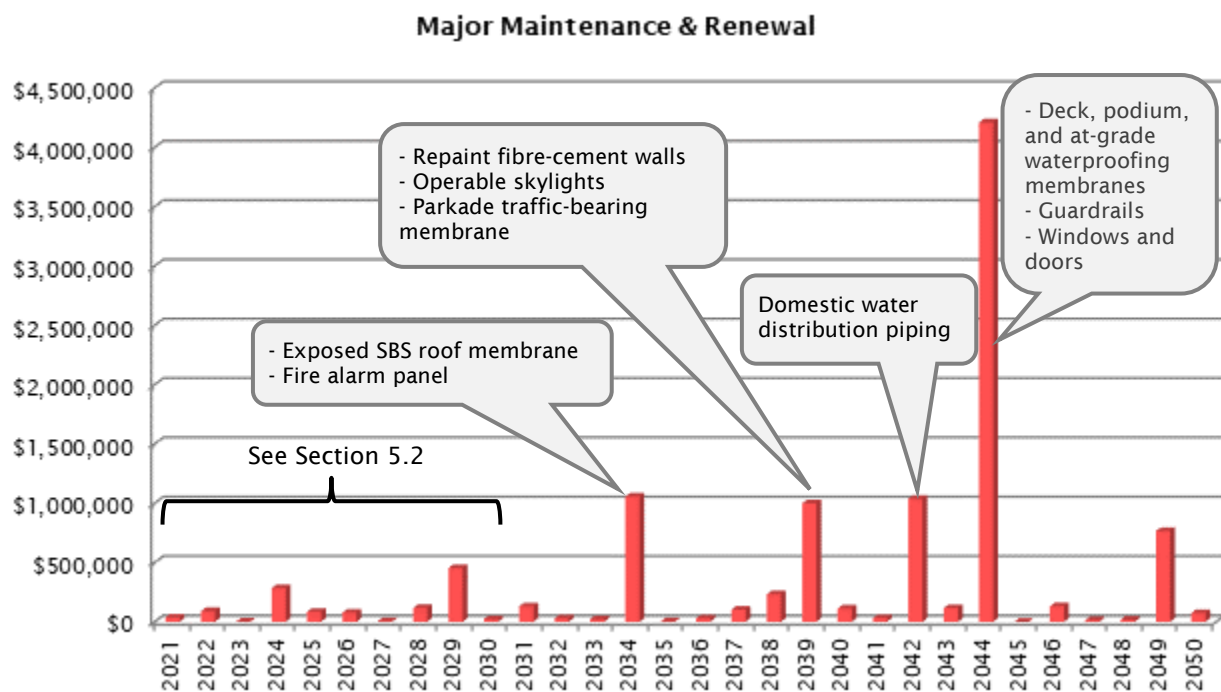


Figure 5.1 Strategic Forecast (30 Years), showing the approximate timing and value of some key capital expenditures.

Each bar on the graph represents a collection of different major maintenance and renewal activities, each with different values. Detailed information about each year, including a description of the maintenance and renewal activities and estimated costs, is also available through Appendix H.

The Strategic Plan represents an estimate of future projects. The actual timing of projects will likely vary. Assets may be replaced earlier or later, depending on the quality of maintenance, in-service conditions, and other factors. The Strata Corporation can anticipate changes to the Strategic Plan with each update of the Depreciation Report.

5.2 Tactical Planning Horizon

The graph below shows the projected major maintenance and renewal costs for the next 10 years (Figure 5.2). Commonly, building managers refer to a 5-year tactical plan; however, a 10-year plan allows the Strata Corporation to see a wider range of projects.

The bars indicate the years in which an event (or bundle of events) is most likely to occur, as well as the total magnitude of major maintenance and renewal costs for that year and the costs broken down by system. The costs associated to correct any warranty defects are not included. The soft costs associated with project implementation, such as site access, design, and contract administration are not included.

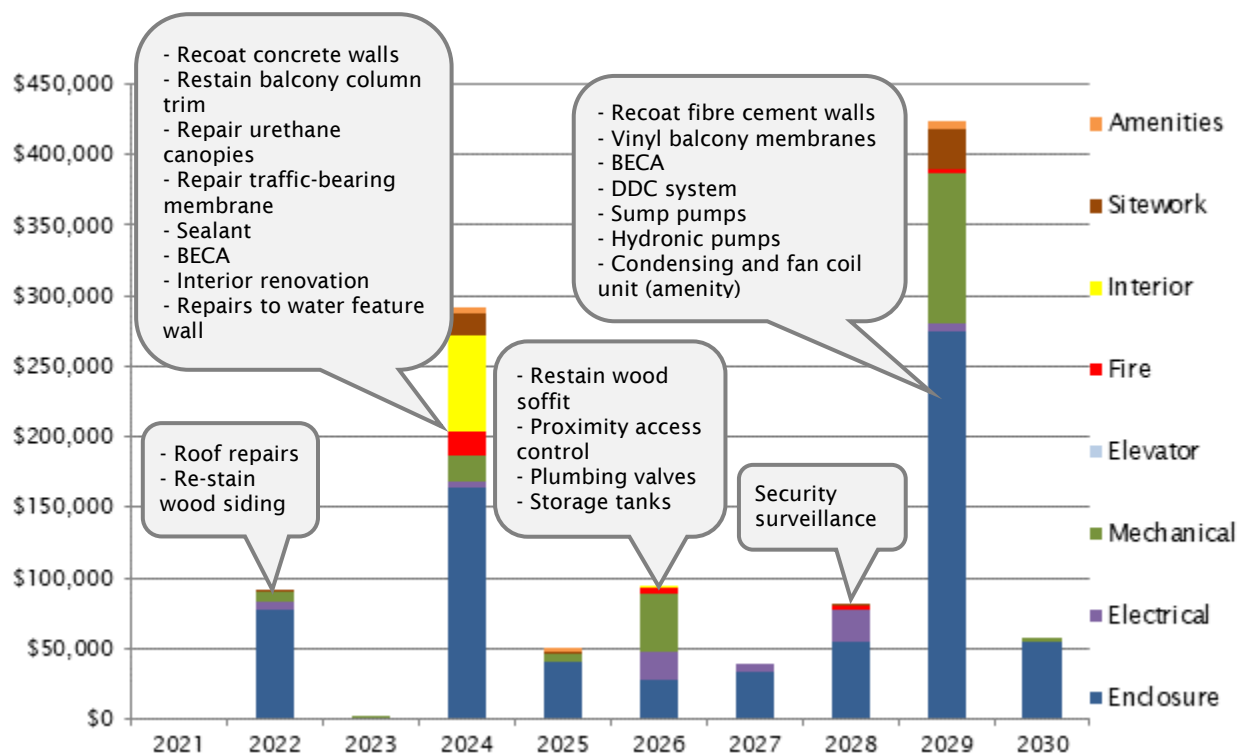


Figure 5.2 Tactical Forecast (10 years), showing the approximate timing and value of some key capital expenditures.

The Tactical Plan above represents one of many possible approaches to planning major maintenance and renewal activities. The Strata Corporation can use this initial plan as a tool, a starting point to identify probable projects, priorities, and strategies. The actual cost, timing, and scope of projects will be determined by the Strata Corporation and may be reflected in updates to the Depreciation Report.

To help the Strata Corporation start the project planning process, some of the activities forecast for the next 10 years are listed below. Because the timing is somewhat uncertain, renewals and major maintenance activities are grouped into three-year planning periods. The list below is not comprehensive; however, it is limited to renewals and major maintenance activities likely to cost more than \$5,000 in current year dollars or significant assessments. A complete list of maintenance and renewals are included in the Appendix H.

2021 to 2023

Building Enclosure

- Encl 01/02/03 Roof/Deck/Podium – Repairs to the roof, deck, and podium assemblies, as recommended in the 2021 Roof Review by BC Roof Inspections.
- Encl 04 Protected Liquid-applied Membrane At-Grade – Commissioning a review of the at-grade assembly above visitor’s parking at Stalls #1-4 in the residential parkade.
- Encl 08 Coated Concrete Wall – Sealing of the cracks and repainting of the exterior concrete walls.
- Encl 11 Wood Siding Wall – Cleaning and re-staining of the wood siding wall cladding, on a 3-year cycle.
- Encl 12 Wood Trim – Restaining of the wood trim around balcony columns, on a 3-year cycle.
- Encl 22 Exposed Urethane Canopy Membrane – Localized repairs to the urethane membrane on concrete canopies.
- Encl 25 Parking Slab with Traffic-bearing Membrane – Localized repairs to the traffic-bearing membrane at ramp and commercial parkade.
- Encl 27 Sealant – Replacement of the exterior sealant at interfaces between the building enclosure assemblies and at penetrations.

Electrical

- Elec 01 Electrical Distribution – Cleaning and infrared scanning of the electrical equipment.
- Elec 06 Security Surveillance – Updating of the software and hardware, and installation of the additional security cameras.

Mechanical

- Mech 40 Overhead Gate Motor – Replacement of the two (commercial and residential) parkade gate operators.
- Mech 06/07/08 Perimeter, Storm, & Sanitary Drainage – Camera-scoping and jet-flushing of the perimeter, storm, and sanitary drainage lines.

Interior Finishes

- Finish 02/06 Tile Carpet and Interior Painting – Interior renovations are completed to refurbish the interior common areas and are typically renewed at the Ownership group’s discretion. The tile carpet and interior painting is forecast for renewal in 2024.

Sitework

- Site 02 Water Feature – Localized repairs to the water feature wall.
- Site 03 Water Feature Circulation & Filtration – Replacement of various components of the water feature circulation and filtration equipment.

2024 to 2026

Building Enclosure

- Encl 05 Wood Soffit – Restaining of the wood soffits, to coincide with Encl 12 activities below.
- Encl 11 Wood Siding Wall – Cleaning and re-staining of the wood siding wall cladding, on a 3-year cycle.
- Encl 12 Wood Trim – Restaining of the wood trim around balcony columns, on a 3-year cycle.
- Encl 28 General & Inspections – Commissioning of a Building Enclosure Condition Assessment (BECA) to confirm the existing conditions, including concealed conditions, of the building enclosure Assets and refine renewals forecast.

Electrical

- Elec 05 Proximity Access Control – Modernization of the proximity access control system.

Mechanical

- Mech 12 Storm Lift and Control Panel – Replacement of the storm sump pumps.
- Mech 15 Plumbing Valves – Replacement of the various plumbing valves.
- Mech 17 DHW Storage Tanks – Replacement of the DHW storage tanks.

Fire Safety

- Fire 02 Fire Detection & Alarm – Replacement of the smoke detectors and other field devices every 10 years.

2027 to 2030

Building Enclosure

- Encl 09 Thin Brick Veneer Wall – Repointing the mortar joints in the thin brick veneer wall.
- Encl 10 Fibre Cement Wall – Recoating of the fibre cement wall cladding.
- Encl 11 Wood Siding Wall – Cleaning and re-staining of the wood siding wall cladding, on a 3-year cycle.
- Encl 12 Wood Trim – Restaining of the wood trim around balcony columns, on a 3-year cycle.
- Encl 23 Exposed Vinyl Balcony Membrane – Replacement of the vinyl balcony membranes.
- Encl 28 General & Inspections – Commissioning of a Building Enclosure Condition Assessment (BECA) to confirm the existing conditions, including concealed conditions, of the building enclosure Assets and refine renewal forecast.

Electrical

- Elec 01 Electrical Distribution – Cleaning and infrared scanning of the electrical equipment.
- Elec 06 Security Surveillance – Modernizing components of the security surveillance equipment.

Mechanical

- Mech 01 Direct Digital Controls – Modernizing components of the direct digital control (DDC) system.
- Mech 03 Gas Detection – Replacement of the gas detection equipment in the parkades.

- Mech 04 Heat Tracing – Replacement of the heat tracing equipment.
- Mech 06/07/08 Perimeter, Storm, & Sanitary Drainage – Camera-scoping and jet-flushing of the perimeter, storm, and sanitary drainage lines.
- Mech 11/12 Sanitary & Storm Lift and Control Panel – Replacement of the sanitary and storm sump pumps and control panels.
- Mech 25/26 Hydronic Loop Pumps – Replacement of the hydronic loop pumps.
- Mech 31/32 Condensing Unit and Fan Coil Unit – Replacement of the condensing unit and fan coil unit servicing the amenity room.

Sitework

- Site 01 Concrete Paving – Replace sections of the concrete paving.
- Site 04 Wood Pergola – Replacement of the wood pergola on the podium level (courtyard).
- Site 06 Irrigation System – Replacement of the irrigation sprinkler controller, lines, and sprinkler heads.
- Site 07 Soft Landscaping – Renovate sections of the soft landscaping, such as on the podium level (courtyard).

5.3 Project Implementation

The projects identified in the previous section represent a preliminary step that is only intended to help the Strata Corporation identify, prioritize, and plan projects. Most significant renewal projects identified in the Depreciation Report will subsequently go through four basic steps before implementing the work: Assessment, Design, Documentation, and Quotation.

- Assessment – Determines what work must be done, what should be done, and what could be done in general terms. The evaluation will help the Strata Corporation understand the risks and opportunities associated with deferring or implementing renewals work.
- Design – Refines the recommendations from the evaluation and defines what work will be done in a specific project. The Design may include recommendations for different project strategies, such as phasing or bundling projects, or may include recommendations for upgrades.
- Documentation – Describes the project in enough technical detail to get competitive pricing.
- Quotation – Obtains competitive pricing from different contractors or service providers to perform the work described in the documents, including alternate prices for optional work.

The time period for each step can range from a few days to a few months or more, depending on the scale of the project under consideration. The budget and scope of work will be refined in each step. Most estimates currently included in the Depreciation Report are considered Class D ($\pm 50\%$) due to the lack of information regarding specific projects and are based on a number of general assumptions regarding scopes of work.

The Owners can implement projects in a variety of ways, including:

- *Targeted Projects.* These projects are localized to particular portions of the building. Different exposure conditions and wear patterns may require that only some sections of the building require renewal at one point in time.

- *Phased Projects*. These projects are carried out in multiple stages rather than as a single coordinated project. Phased projects can reduce the financial burden by spreading the costs over a longer time period.
- *Comprehensive Projects*. These projects are implemented as one coordinated undertaking. Comprehensive projects may allow the Strata Corporation to leverage the best economies of scale, shorten the overall duration, and lower the overall costs.
- *Bundled Projects*. These projects bundle or combine various related renewal activities (e.g. renewals that are located in close physical proximity, or that require the same type of trade workers). Bundled projects may allow the Strata Corporation to leverage economies of scale and lower the overall costs, improve the quality of the work, and incorporate upgrades.

The scope of the Depreciation Report does not compare different implementation methods.



6 Funding Scenarios

The physical assessment and financial assessment were used to create a tentative schedule and budget for forecasted major maintenance and renewal projects. Within this section, hypothetical *funding scenarios*, also known as *funding models*, based on different annual contributions to the Contingency Reserve Fund (CRF) are presented.

The Strata Corporation can use the funding scenarios to choose an appropriate funding strategy, based on their tolerance for risk and desired standard of care for the property. RDH provides the tools so the Owners can determine a CRF contribution that suits their needs.

6.1 Minimum Funding Requirements

The Strata Property Act Regulations dictates that if the CRF closing balance is less than 25% of the operating fund, then the Strata Corporation must contribute either the difference between the balance and 25% of the operating fund, or up to 10% of the operating fund (Strata Property Act Regulation, BC Reg 43/2000, Ch. 6.1). Table 6.1 below shows the calculation to confirm the Strata Corporation meets the minimum requirements set out in the Strata Property Act Regulation.

| TABLE 6.1 MINIMUM FUNDING REQUIREMENT CALCULATION | |
|--|------------|
| PARAMETER | VALUE |
| 2021/2022 operating budget (excluding CRF contribution) | \$ 416,584 |
| → 25% of the operating budget | \$ 104,146 |
| → 10% of the operating budget | \$ 41,658 |
| 2020/2021 CRF closing balance | \$ 161,706 |
| 2021/2022 CRF contribution | \$ 53,600 |
| Does the CRF closing balance exceed 25% of the operating budget? | Yes |
| Does the CRF contribution exceed 10% of the operating budget? | N/A |

Although the Strata Corporation meets the statutory minimum contribution to the CRF, it is important to note that the statutory guideline is not a good measure of the financial preparedness of the Corporation.

6.2 Alternative Funding Scenarios

The funding scenarios below compare the financial impact of different funding levels over the next 30 years. The scenarios serve as a sensitivity analysis that allow the Strata Corporation to evaluate how changes to the contingency reserve fund impact the number and size of special levies. The actual size and timing of special levies will be affected by how the Strata Corporation chooses to implement the renewal projects.

While there are many different scenarios that can be generated, Table 6.2 below compares the following alternatives:

- **Current (2021/2022).** The CRF allocation that was approved by the Owners at the 2021/2022 Annual General Meeting (AGM). The current allocation is also known as the Status Quo.

- **Alternative #1.** An increase from the Status Quo with a fixed annual contribution of \$70,000, approximately double the current funding. Alternative #1 is just one of many possible scenarios for a new funding level in the next fiscal year.
- **Alternative #2.** An increase from the Status Quo with an initial contribution of \$100,000 and is increased by 3% annually in subsequent years. Alternative #2 is just one of many possible scenarios for a new funding level in the next fiscal year.
- **Progressive.** This is the annual contribution that would need to be set aside, commencing in the first fiscal year of this Report, to ensure that the reserve balance is sufficient to eliminate or bring special levies over a 30-year period to a minimum. With “Progressive” reserve allocation, older Stratas with underfunded reserves may still require some special levies at some point in their Strategic Plan. The “Progressive” reserve contribution is an optimum target that a Strata Corporation could use as a guide.

| TABLE 6.2 COMPARISON OF DIFFERENT FUNDING SCENARIOS | | | | |
|---|------------------------|-------------------|--------------------------|------------------------|
| | CURRENT (2021/2022) | ALTERNATIVE #1 | ALTERNATIVE #2 | PROGRESSIVE RESERVE |
| Annual CRF allocation | \$53,600 | \$70,000 | Starting at \$100,000 | \$338,000 |
| Annual CRF increase | - | - | 3% | - |
| Percent of progressive reserve | 16% | 21% | 30%+ | 100% |
| CRF contribution per unit of unit entitlement | | | Starting at | |
| Per month | \$0.81 | \$1.06 | \$1.52+ | \$5.13 |
| Per year | \$9.77 | \$12.76 | \$18.22+ | \$61.59 |
| CRF contribution per average strata lot | | | Starting at | |
| Per month | \$64 | \$83 | \$119+ | \$402 |
| Per year | \$766 | \$1,000 | \$1,429+ | \$4,829 |
| Approximate number of special levies (over 30 years) | 16 | 13 | 4 | 0 |
| Approximate value of special levies (over 30 years) | \$8.5M | \$8M | \$5.6M | \$0 |
| Minimum Closing Balance | \$35,000 | | | |
| Assumed Inflation Rate | 2 % | | | |
| Assumed Interest Rate | 2 % | | | |

The following sections of the Report provide more detailed information about each funding scenario, including a graph showing the closing balance of the CRF, annual CRF contributions, and the approximate value of special levies. Tables with 10 years of cash flow data are also provided.

Appendix E includes 30 years of cash flow data for each funding scenario.

6.3 Current (2021/2022) Funding Scenario

The Current Funding Scenario is based on the CRF contribution approved by the Owners at the 2021/2022 AGM. The scenario is based on a fixed annual CRF contribution (no increases).

| TABLE 6.3 CURRENT (2021/2022) FUNDING SCENARIO: CASH FLOW TABLE | | | | | | | |
|---|-----------------|----------------------|--------------|----------------|---------------|-------------------|-----------------|
| FISCAL YEAR | OPENING BALANCE | RESERVE CONTRIBUTION | SPECIAL LEVY | RESERVE INCOME | RENEWAL COSTS | CONTINGENCY COSTS | CLOSING BALANCE |
| 2021 | \$161,706 | \$53,600 | \$0 | \$3,234 | \$35,000 | \$1,000 | \$182,540 |
| 2022 | \$182,540 | \$53,600 | \$0 | \$3,651 | \$90,900 | \$1,000 | \$147,891 |
| 2023 | \$147,891 | \$53,600 | \$0 | \$2,958 | \$2,100 | \$1,000 | \$201,349 |
| 2024 | \$201,349 | \$53,600 | \$60,044 | \$4,027 | \$283,020 | \$1,000 | \$35,000 |
| 2025 | \$35,000 | \$53,600 | \$29,500 | \$700 | \$82,800 | \$1,000 | \$35,000 |
| 2026 | \$35,000 | \$53,600 | \$23,530 | \$700 | \$76,830 | \$1,000 | \$35,000 |
| 2027 | \$35,000 | \$53,600 | \$0 | \$700 | \$5,600 | \$1,000 | \$82,700 |
| 2028 | \$82,700 | \$53,600 | \$13,546 | \$1,654 | \$115,500 | \$1,000 | \$35,000 |
| 2029 | \$35,000 | \$53,600 | \$398,680 | \$700 | \$451,980 | \$1,000 | \$35,000 |
| 2030 | \$35,000 | \$53,600 | \$0 | \$700 | \$20,500 | \$1,000 | \$67,800 |

The graph below shows the annual contribution to the CRF, the closing balance of the CRF, and the size of the special levies forecast for the next 30 years.

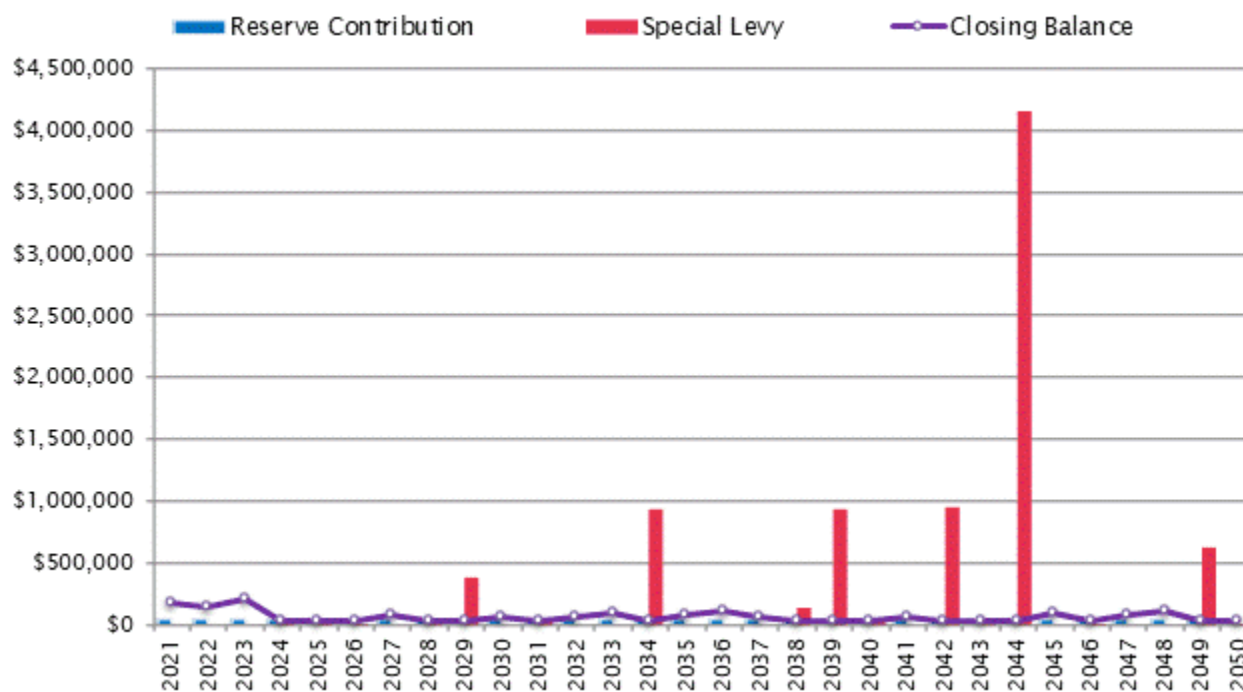


Figure 6.1 CRF balance, contribution, and special levies based on the current funding.

If the Strata Corporation wishes to reduce the number and size of special levies, then increases will need to be made over the upcoming years.

6.4 Alternative Funding Scenario #1

Alternative Funding Scenario #1 is based on a fixed annual CRF contribution.

| TABLE 6.4 ALTERNATIVE FUNDING SCENARIO #1: CASH FLOW TABLE | | | | | | | |
|--|-----------------|----------------------|--------------|----------------|---------------|-------------------|-----------------|
| FISCAL YEAR | OPENING BALANCE | RESERVE CONTRIBUTION | SPECIAL LEVY | RESERVE INCOME | RENEWAL COSTS | CONTINGENCY COSTS | CLOSING BALANCE |
| 2021 | \$161,706 | \$70,000 | \$0 | \$3,234 | \$35,000 | \$1,000 | \$198,940 |
| 2022 | \$198,940 | \$70,000 | \$0 | \$3,979 | \$90,900 | \$1,000 | \$181,019 |
| 2023 | \$181,019 | \$70,000 | \$0 | \$3,620 | \$2,100 | \$1,000 | \$251,539 |
| 2024 | \$251,539 | \$70,000 | \$0 | \$5,031 | \$283,020 | \$1,000 | \$42,550 |
| 2025 | \$42,550 | \$70,000 | \$5,399 | \$851 | \$82,800 | \$1,000 | \$35,000 |
| 2026 | \$35,000 | \$70,000 | \$7,130 | \$700 | \$76,830 | \$1,000 | \$35,000 |
| 2027 | \$35,000 | \$70,000 | \$0 | \$700 | \$5,600 | \$1,000 | \$99,100 |
| 2028 | \$99,100 | \$70,000 | \$0 | \$1,982 | \$115,500 | \$1,000 | \$54,582 |
| 2029 | \$54,582 | \$70,000 | \$362,306 | \$1,092 | \$451,980 | \$1,000 | \$35,000 |
| 2030 | \$35,000 | \$70,000 | \$0 | \$700 | \$20,500 | \$1,000 | \$84,200 |

Alternative Funding Scenario #1 eliminates some of the smaller levies, but it is not adequate to offset all the special levies over the 30-year planning horizon. The graph below shows the annual contribution to the CRF, the closing balance of the CRF, and the size of the special levies forecast for the next 30 years.

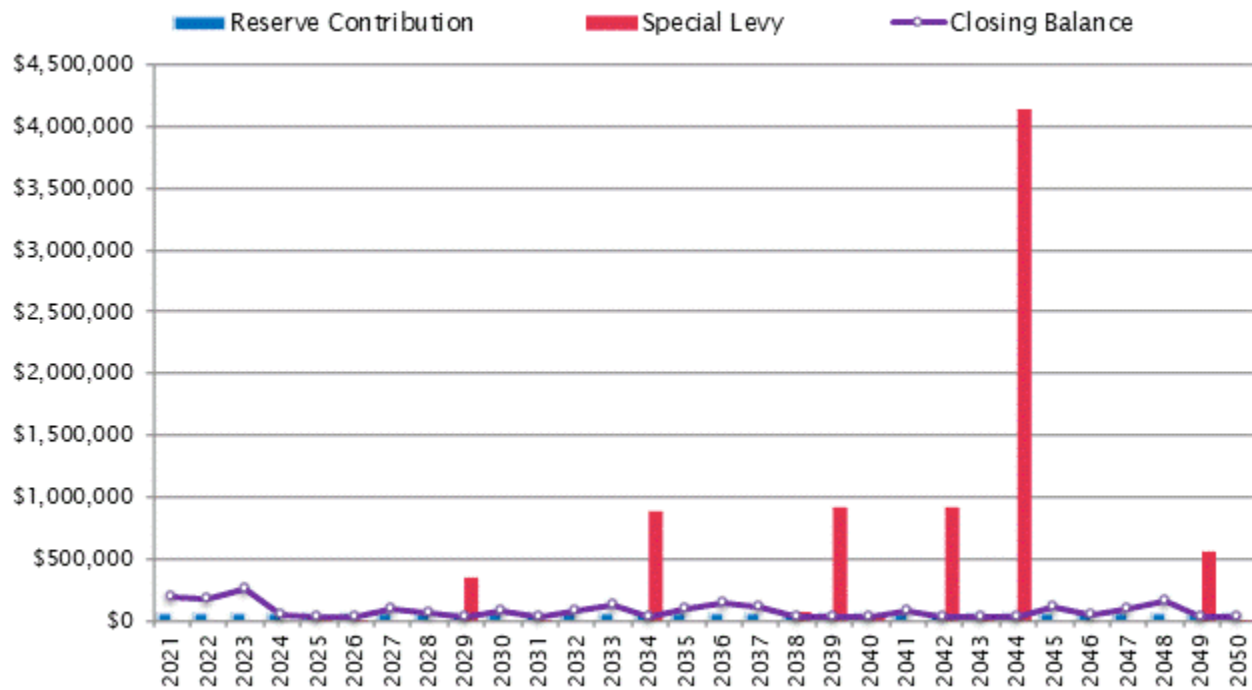


Figure 6.2 CRF balance, contribution, and special levies based on Alternative #1.

6.5 Alternative Funding Scenario #2

Alternative Funding Scenario #2 is based on an initial annual CRF contribution of \$100,000, with a 3% annual increase in subsequent years. The initial annual contribution is approximately double the current contribution.

| TABLE 6.5 ALTERNATIVE FUNDING SCENARIO #2: CASH FLOW TABLE | | | | | | | |
|--|-----------------|----------------------|--------------|----------------|---------------|-------------------|-----------------|
| FISCAL YEAR | OPENING BALANCE | RESERVE CONTRIBUTION | SPECIAL LEVY | RESERVE INCOME | RENEWAL COSTS | CONTINGENCY COSTS | CLOSING BALANCE |
| 2021 | \$161,706 | \$100,000 | \$0 | \$3,234 | \$35,000 | \$1,000 | \$228,940 |
| 2022 | \$228,940 | \$103,000 | \$0 | \$4,579 | \$90,900 | \$1,000 | \$244,619 |
| 2023 | \$244,619 | \$106,090 | \$0 | \$4,892 | \$2,100 | \$1,000 | \$352,501 |
| 2024 | \$352,501 | \$109,273 | \$0 | \$7,050 | \$283,020 | \$1,000 | \$184,804 |
| 2025 | \$184,804 | \$112,551 | \$0 | \$3,696 | \$82,800 | \$1,000 | \$217,251 |
| 2026 | \$217,251 | \$115,927 | \$0 | \$4,345 | \$76,830 | \$1,000 | \$259,693 |
| 2027 | \$259,693 | \$119,405 | \$0 | \$5,194 | \$5,600 | \$1,000 | \$377,693 |
| 2028 | \$377,693 | \$122,987 | \$0 | \$7,554 | \$115,500 | \$1,000 | \$391,734 |
| 2029 | \$391,734 | \$126,677 | \$0 | \$7,835 | \$451,980 | \$1,000 | \$73,265 |
| 2030 | \$73,265 | \$130,477 | \$0 | \$1,465 | \$20,500 | \$1,000 | \$183,708 |

Alternative Funding Scenario #2 eliminates some of the smaller levies, but it is not adequate to offset all the special levies over the 30-year planning horizon. The graph below shows the annual contribution to the CRF, the closing balance of the CRF, and the size of the special levies forecast for the next 30 years.

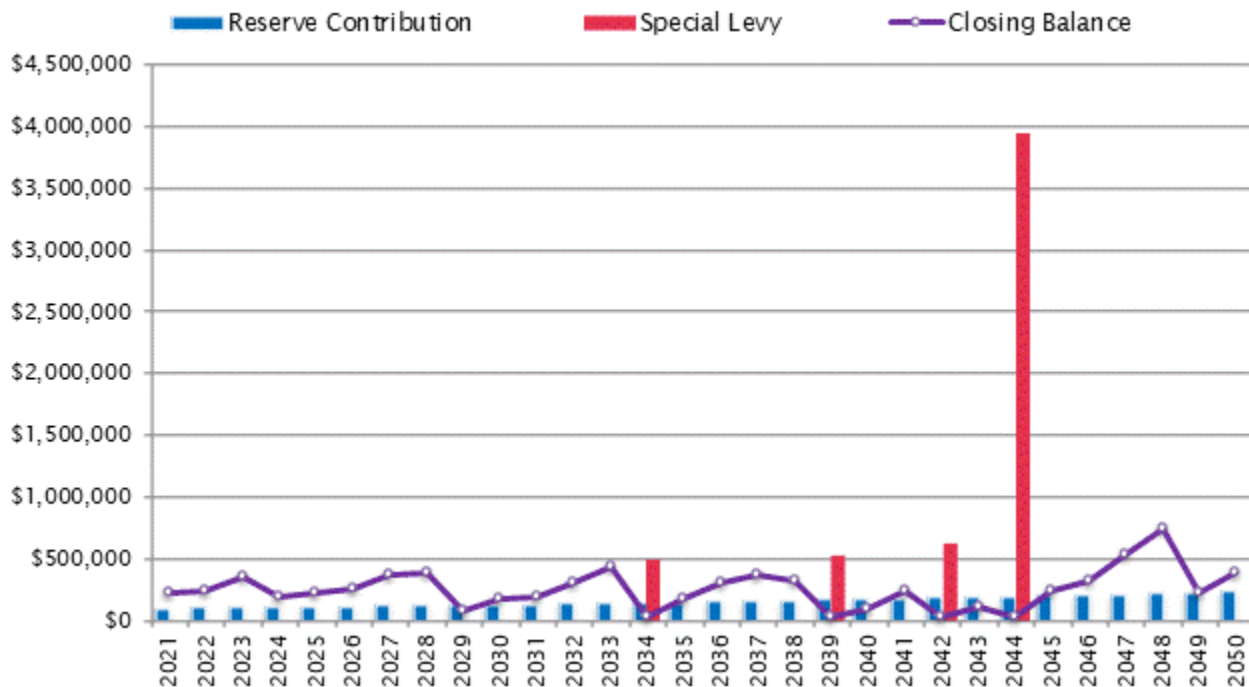


Figure 6.3 CRF balance, contribution, and special levies based on Alternative #2.

6.6 Progressive Funding Scenario

The Progressive Funding Scenario is based on a fixed annual CRF contribution.

| TABLE 6.6 PROGRESSIVE FUNDING SCENARIO: CASH FLOW TABLE | | | | | | | |
|---|-----------------|----------------------|--------------|----------------|---------------|-------------------|-----------------|
| FISCAL YEAR | OPENING BALANCE | RESERVE CONTRIBUTION | SPECIAL LEVY | RESERVE INCOME | RENEWAL COSTS | CONTINGENCY COSTS | CLOSING BALANCE |
| 2021 | \$161,706 | \$338,000 | \$0 | \$3,234 | \$35,000 | \$1,000 | \$466,940 |
| 2022 | \$466,940 | \$338,000 | \$0 | \$9,339 | \$90,900 | \$1,000 | \$722,379 |
| 2023 | \$722,379 | \$338,000 | \$0 | \$14,448 | \$2,100 | \$1,000 | \$1,071,727 |
| 2024 | \$1,071,727 | \$338,000 | \$0 | \$21,435 | \$283,020 | \$1,000 | \$1,147,141 |
| 2025 | \$1,147,141 | \$338,000 | \$0 | \$22,943 | \$82,800 | \$1,000 | \$1,424,284 |
| 2026 | \$1,424,284 | \$338,000 | \$0 | \$28,486 | \$76,830 | \$1,000 | \$1,712,940 |
| 2027 | \$1,712,940 | \$338,000 | \$0 | \$34,259 | \$5,600 | \$1,000 | \$2,078,598 |
| 2028 | \$2,078,598 | \$338,000 | \$0 | \$41,572 | \$115,500 | \$1,000 | \$2,341,671 |
| 2029 | \$2,341,671 | \$338,000 | \$0 | \$46,833 | \$451,980 | \$1,000 | \$2,273,524 |
| 2030 | \$2,273,524 | \$338,000 | \$0 | \$45,470 | \$20,500 | \$1,000 | \$2,635,495 |

The Progressive Reserve would offset all special levies. The graph below shows the annual contribution to the CRF, the closing balance of the CRF, and the size of the special levies forecast for the next 30 years.

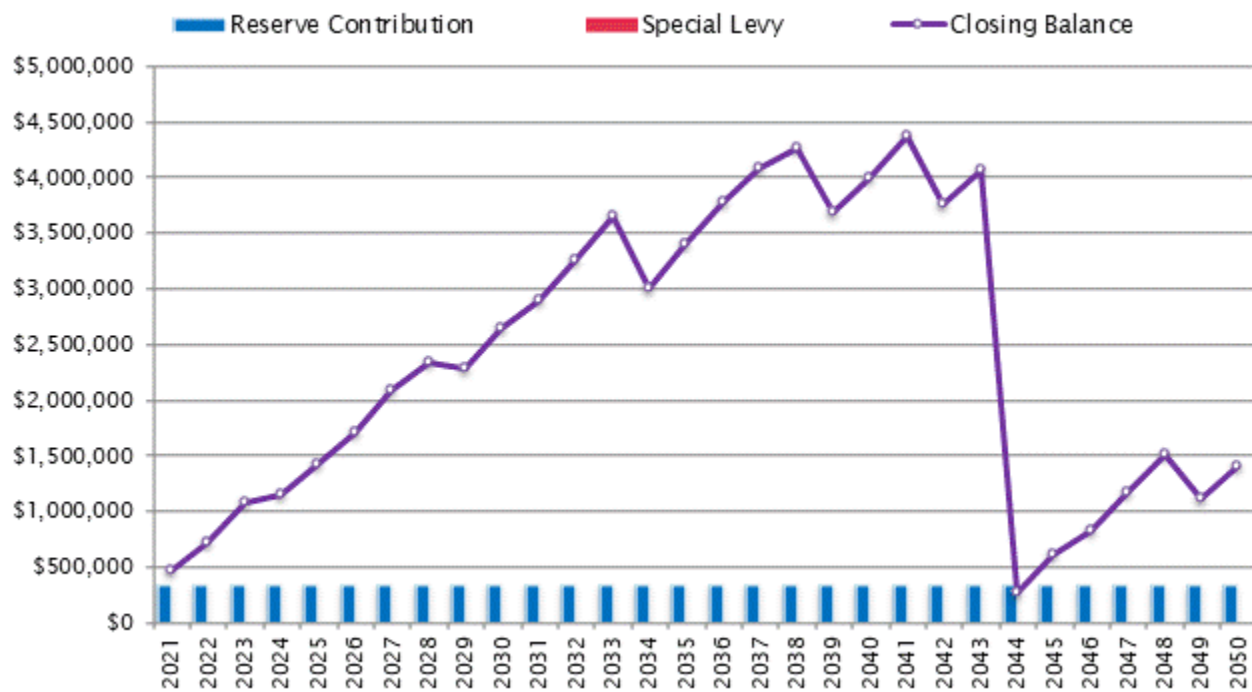


Figure 6.4 CRF balance, contribution, and special levies based on a Progressive Reserve calculation.

7 Next Steps

The Depreciation Report identifies the possible major maintenance and renewal expenditures that Remix may encounter over the next 30 years. Estimated timelines have been provided to assist the Strata Corporation with the planning process; however, the Depreciation Report should be considered a first step when planning for renewals. Funding scenarios have been developed to provide the Strata Corporation with an objective basis for determining appropriate CRF contributions.

Remix is a 7-year-old building (as of 2021), and aside from the potential renewal of the balcony membranes, carpet tiles, interior painting, and various fans and pumps, most expenditures that occur over the next 10 years relate to the major maintenance of the Assets, such as drainage cleaning, repainting, and localized repair of various claddings. This is a fairly typical renewal pattern for younger Strata Corporations, such as Remix. The Strata should continue to be diligent in performing maintenance tasks so Assets may achieve their full service life. It is unlikely that the Strata Corporation can avoid special levies in this time period; however, there may be opportunities to reduce the scope of work needed or otherwise manage projects to alleviate the financial impact on individual Owners.

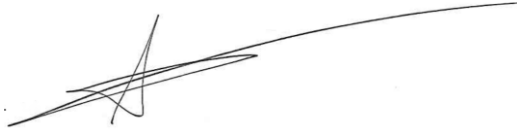
The recommendations below are intended to aid the Strata Corporation in the next steps of the renewals planning process.

Recommendations

- **Project Planning:** Review the information in Section 5.2, and begin planning for significant projects, including commissioning assessments, requesting information, and preparing construction budgets, well in advance of the forecasted date of renewal. The planning process will assist the Strata Corporation in refining the actual timing, scope of work, and project budget.
- **Major Maintenance Planning:** Review Appendix H for a detailed checklist of forecasted major maintenance activities and renewals on an annual basis.
- **Record keeping:** Continue to record significant renewals, repairs, and maintenance activities. These records will be used to improve the forecast at the time of the Depreciation Report Update.
- **CRF Planning:** On a yearly basis, review and update the CRF funding strategy based on the estimated forecasts presented in this Report and update information obtained from assessments, investigations and quotations.
- **Building Enclosure Condition Assessment:** Conduct a Building Enclosure Condition Assessment (BECA) Report of the building enclosure prior to the update to the Depreciation Report in three years' time. The BECA should inform the renewal timing of the vinyl balcony membranes, polyurethane canopy membranes, parkade traffic-bearing membrane, and sealant.
- **Further Investigations:** Conduct additional condition assessments/investigations, as required to refine the data and confirm assumptions.
- **Updates:** Plan for an update to the Report in three years' time. On a yearly basis, the Strata Corporation should review and update their CRF funding strategy based on the estimated forecasts presented in the Report.

We trust this Report meets your needs at this time. Please do not hesitate to contact the undersigned should you wish to discuss any aspect of this Report or should the Owners require any additional building enclosure assistance.

Yours truly,

A handwritten signature in black ink, appearing to read 'Alex Seto', with a long horizontal flourish extending to the right.

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Appendix A

Glossary of Terms

Glossary

Annual Contribution – Funds allocated to the Reserve Fund each fiscal year. Sometimes referred to as the Annual Allocation. Determining the appropriate size of the Annual Allocation is aided with a Reserve Study (a Depreciation Report in B.C.).

Asset – An integrated assembly of multiple physical components, which requires periodic maintenance, repair and eventual renewal. Typical examples of assets are: roofs, boilers and hallway carpets.

Catch-up Costs – The costs associated with the accumulated backlog of deferred maintenance associated with the assets.

Chronological Age – The age of an asset relative to its date of installation (current year minus year of installation).

Classes of Cost Estimates – Until a project is actually constructed, a cost estimate represents the best judgement of the professional according to their experience and knowledge and the information available at the time. Its completeness and accuracy is influenced by many factors, including the project status and development stage. Estimates have a limited life and are subject to inflation and fluctuating market conditions. The precision of cost estimating is categorized into the following four classes and are as defined in guidelines prepared by the Association of Professional Engineers and Geoscientists of B.C. The percentage figures in parentheses refer to the level of precision or reliability of the cost estimates.

- **Class A Estimate** ($\pm 10-15\%$): A detailed estimate based on quantity take-offs from final drawings and specifications. It is used to evaluate tenders or as a basis of cost control during day-labour construction.
- **Class B Estimate** ($\pm 15-25\%$): An estimate prepared after site investigations and studies have been completed, and the major systems defined. It is based on a project brief and preliminary design. It is used for obtaining effective project approval and for budgetary control.
- **Class C Estimate** ($\pm 25-40\%$): An estimate prepared with limited site information and based on probable conditions affecting the project. It represents the summation of all identifiable project elemental costs and is used for program planning, to establish a more specific definition of client needs and to obtain preliminary project approval.
- **Class D Estimate** ($\pm 50\%$): A preliminary estimate which, due to little or no site information, indicates the approximate magnitude of cost of the proposed project, based on the client's broad requirements. This overall cost estimate may be derived from lump sum or unit costs for a similar project. It may be used in developing long term capital plans and for preliminary discussion of proposed capital projects.

Closing Balance – Alternatively referred to as the Starting Balance. The balance of funds remaining in the reserve account at the end of a fiscal period (Fiscal year end, calendar year or study period). The Closing Balance becomes the Opening Balance for the subsequent fiscal period.

Contingency Costs – An allowance for unexpected or unforeseen costs that may impact monies required for projects to maintain or replace assets. (Not to be confused with costs of Renewal or Major Maintenance projects which are paid for out of the Reserve Fund (otherwise known the Contingency Reserve Fund.)

Contribution Threshold - A dollar value which dictates the size of the Contingency Reserve Fund (CRF) contribution based on whether the accumulated CRF balance is greater than or less than the specified dollar value. For example, the Strata Property Act indicates that if the closing balance of the CRF at the end of the fiscal year is less than 25% of the operating budget for the next fiscal year, then the CRF contribution for the next fiscal year should be a minimum of 10% of the operating budget. In this case, the threshold is 25% of the operating budget.

Current Dollars – Dollars in the year they were actually received or paid, unadjusted for price changes.

Effective Age – An assessment of the age of an asset relative to its condition and how that condition may have accelerated or decelerated the chronological age of the asset (service life minus remaining service life).

Funding Model – A mathematical model used to establish an appropriate funding level for sustaining the assets in a building. Running a number of scenarios out of the funding model using different parameters (such as inflation rates and interest rates) can serve as a sensitivity analysis to determine the financial impact of different funding levels.

Future Dollars – The projected cost of future asset renewal projects, which accounts for inflation and escalation factors.

Get Ahead Costs – These are costs associated with adaptation of the building to counter the forces of retirement associated with different forms of obsolescence, such as:

- Functional obsolescence
- Legal obsolescence
- Style obsolescence

Some of the costs in this category are discretionary spending that result in either a change or an improvement to the existing strata building. This category includes projects to alter the physical plant for changes in use, codes and standards. Some typical examples include:

- Energy retrofits
- Code retrofits
- Hazardous material abatement
- Barrier free access retrofits
- Seismic Upgrades

Keep-up Costs – The monies required for renewal projects as each asset reaches the end of its useful service life. If an asset is not replaced at the end of its useful service life

and is kept in operation, through targeted repairs, then these costs get reclassified into the “catch-up” category.

Major Maintenance – Any maintenance work for common expenses that usually occurs less often than once a year or that do not usually occur. Major maintenance provides for the preservation of assets to ensure that they achieve their full intended service life.

Next Renewal Year - The forecasted date of asset replacement or renewal.

Opening Balance – Alternatively referred to as the Starting Balance. The amount of money in an account at the beginning of a fiscal period. Opening balances are derived from the balance sheet and are used in cash flow calculations in the Funding Model.

Operating Costs – Frequently recurring expenses that arise during the course of a single fiscal year and are paid from the operating budget as opposed to the Reserve Fund.

Operational Plan/Horizon (1 year) – The annual operating period encompasses one fiscal cycle (12 months). The Reserve Contribution in the operating budget should reflect the majority of the projects in the Tactical Plan (5 years) and ideally should also contemplate elements of the Strategic Plan (30 years).

Percent Funded – The ratio, at a particular point of time (typically the beginning of the fiscal year), of the actual or projected Reserve Fund balance to the accrued Reserve Fund balance, expressed as a percentage. For example: If the 100% funded balance is \$100,000 and there is \$76,000 in the Reserve Fund, the Reserve Fund is 76% funded.

Since funds can typically be allocated from one asset to another with ease, this parameter has no real meaning on an individual reserve component basis. The purpose of this parameter is to identify the relative strength or weakness of the entire Reserve Fund at a particular point in time. The value of this parameter is to provide a more stable measure of Reserve Fund strength, since cash in reserve may mean very different things to different governing bodies or Owner groups.

- **Poor Level.** When the Percent Funded falls to 0% - 30%, the current reserves may be considered to be at a ‘poor’ level. At this funding level, Special Levies are common. This is also commonly known as the Unfunded or Special Levy Model. The Owner Group does not have a Reserve Fund balance that will cover expected renewal costs and the only recourse is to raise funds by Special Levies to cover those costs when they become due.
- **Fair Level.** If the Percent Funded level is 31 to 70% then the current reserve may be considered to be in a mid-range level.
- **Good Level.** If the Percent Funded level is 70% or higher this is likely to be considered ‘strong’ because cash flow problems are rare.

Renewal – The replacement of an Asset as it reaches the end of its useful service life.

Renewal Cost – The cost required to replace an Asset, which is paid from the Reserve Fund, Special Levy or combination thereof.

Reserve Contribution – See Annual Contribution.

Reserve Fund – Also known as the Contingency Reserve Fund (CRF). The account in which the accumulated Annual Contributions are deposited and from which costs are withdrawn for Renewal projects and Major Maintenance projects.

Reserve Income – The interest earned from investing the money deposited in the Reserve Fund.

Reserve Study – Also referred to as a Reserve Fund Study or Depreciation Report in BC.

- A long-range financial planning tool that identifies the current status of the Owners' Reserve Fund and recommends a stable and equitable funding plan to offset the costs of anticipated future major expenditures associated with replacement of the assets and major maintenance.
- The purpose of the Reserve Study is to provide a plan for appropriate funding for renewal and major maintenance work.
- While Reserve Studies provide analysis of the timing, costs and funding for renewal projects, they should ideally be supported by a maintenance plan that assists the Owners to plan for maintenance activities so that assets achieve their predicted service lives.

Service Life - The estimated period of time over which an asset (and its components or assembly) provides adequate performance and function.

Special Levy – Also referred to as a "Special Assessment". A financial levy to be paid by the Owner group to finance large-scale projects for major maintenance, repairs, renewal and rehabilitation of an asset, which occur as result of a shortfall in available funds and requires special decision making and approval procedures. A Reserve Study contains funding scenarios that assist the Owners in long-range financial planning.

Statutory Funding Model - A funding model which uses the Strata Property Act and Regulations to determine the minimum amount of money to contribute to the Contingency Reserve Fund on an annual basis.

Strategic Horizon – The longest of the three planning horizons, which typically covers the full study period of 30 years and identifies the long-term needs of the assets.

Style Obsolescence – When an asset is no longer desirable because it has fallen out of popular fashion, its style is obsolete. Some assets, particularly interior furnishings, reflect fashion cycles and can become out-dated.

Tactical Plan/Horizon – A period of planning for asset Renewal projects and Major Maintenance projects, which typically extends five years from the current year.

Appendix B

Asset Inventory

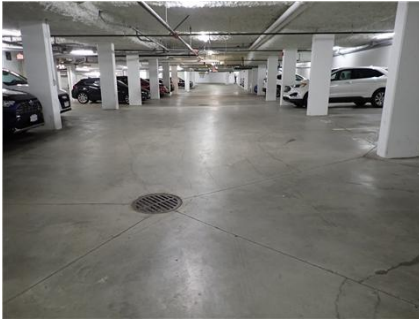
Remix
Asset Inventory

Report evaluated for 2021

Structural

Foundations

Struct 01 - CIP Concrete Foundation and Basement Construction



Location

Below-grade portion of the building.

Description

Cast-in-place (CIP) concrete strip and spread foundations and slab on grade supported directly on existing grade. Below grade, concrete foundation walls. Concrete suspended slab floors and podium ceiling.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 75 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2089 |
| Effective Age: | 7 | | |

Walls & Columns

Struct 02 - CIP Concrete Walls, Columns, and Slab



Location

Level 1.

Description

Primary structure of Level 1. Cast-in-place (CIP) concrete walls and columns supporting a suspended slab. Concrete is exposed to weathering at exterior walls.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 75 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2089 |
| Effective Age: | 7 | | |

Struct 03 - Wood Structure



Location

Levels 2-4.

Description

Wood framed walls, floors, roof, and balconies.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 75 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2089 |
| Effective Age: | 7 | | |

Enclosure

Roofs & Decks

Encl 01 - Exposed SBS Membrane Roof



Location

Perimeter of main roof, elevated roofs, and various locations on Level 3.

Description

Bituminous and modified bituminous (SBS)(styrene-butadiene-styrene) membrane at low-slope roof. Conventional vented low-slope assembly with insulation in roof joists. Overlaid with rock ballast above corridors on the roof.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 20 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2034 |
| Effective Age: | 7 | | |

Encl 02 - Protected SBS Membrane Deck (Conventional Assembly)



Location

Rooftop decks.

Description

SBS membrane overlaid with concrete pavers at rooftop decks. Conventional vented low-slope assembly with insulation in roof joists. The term 'deck' refers to an exterior horizontal surface that is intended for pedestrian use, but is located over occupied space.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 30 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2044 |
| Effective Age: | 7 | | |

Encl 03 - Protected Liquid-Applied Membrane Podium



Location

Level 2 decks (podium).

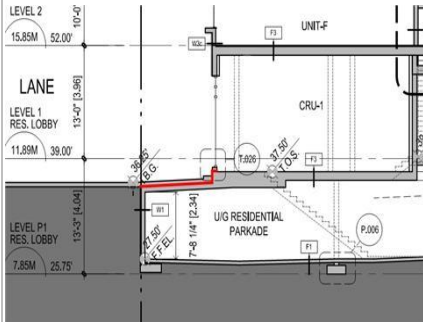
Description

Liquid-applied hot rubberized asphalt podium waterproofing membrane overlaid with combination of pea gravel, filter cloth, concrete paving, and soft landscaping. The term 'podium' refers to the concrete slab between Level 1 and 2. The podium is located over occupied interior space (commercial units) and the commercial parkade.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 30 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2044 |
| Effective Age: | 7 | | |

Encl 04 - Protected Liquid-Applied Membrane At-Grade



Location

Ground level, localized areas of concrete floor slab located above the below-grade parkade.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

Description

Liquid-applied waterproofing membrane overlaid with concrete paving, and soft landscaping.

Install Year: 2014
Next Event Year: 2044

Encl 05 - Wood Soffit



Location

Underside of roof eaves, balconies, and concrete eyebrows.

Information

Service Life: 40
Chronological Age: 7
Effective Age: 7

Description

Stained wood soffit over a wood framing and concrete substrates.

Install Year: 2014
Next Event Year: 2054

Fall Protection

Encl 06 - Glazed Aluminum Frame Divider



Location

Podium on Level 2 and rooftop decks.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

Description

Aluminum frame and glass infill panels functioning as a 6' high privacy barrier between decks.

Install Year: 2014
Next Event Year: 2044

Encl 07 - Guardrail Glazed Aluminum



Location

Balcony perimeters on Levels 2-4.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

Description

Aluminum posts and glass infill panels functioning as a protective barrier at the open sides of balconies to prevent accidental falls from one level to another.

Install Year: 2014
Next Event Year: 2044

Walls

Encl 08 - Coated Concrete Wall



Location

East and south elevations on ground level.

Description

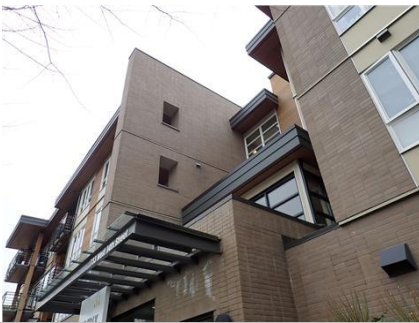
Poured-in-place concrete wall with protective coating.

Information

Service Life: 75
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2089

Encl 09 - Thin Brick Veneer Wall



Location

All elevations and levels of the building.

Description

Thin brick applied as a veneer with a drained and vented cavity over exterior sheathing membrane.

Information

Service Life: 40
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2054

Encl 10 - Fibre Cement Wall - Drained



Location

All elevations on Levels 2-4 and roof.

Description

Fibre cement cladding installed on wood strapping to create a drained cavity over the exterior sheathing membrane.

Information

Service Life: 40
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2054

Encl 11 - Wood Siding Wall - Drained



Location

All elevations on Levels 2-4 and roof.

Description

Stained wood siding installed on furring to create a drained cavity over the exterior sheathing membrane.

Information

Service Life: 35
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2049

Encl 12 - Wood Trim



Location

Roof and balcony facias, balcony columns, and underside of Level 2 canopies.

Description

Vertical and horizontal wood trim boards with stained surface for protection of the substrate and aesthetics.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2044

Glazing Systems

Encl 13 - Aluminum Storefront



Location

North, south, and west elevations on ground level.

Description

Aluminum framed, thermally broken, storefront system with insulating glazing units, and no operable vents.

Information

Service Life: 40
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2054

Encl 14 - Operable Skylight



Location

Access to decks on rooftop.

Description

Operable skylight hatches with double glazed insulating glazing units.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2039

Encl 15 - Vinyl Framed Window



Location

All elevations on Levels 2-4.

Description

Vinyl framed windows with double insulating glazing units, and casement operable vents.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2044

Doors

Encl 16 - Steel Swing Door



Location

Emergency egress and service room doors.

Description

Hollow steel slab swing door with and without wired glazing.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2039

Encl 17 - Vinyl Frame Glazed Swing Door



Location

Access to various balconies and decks on Levels 2-4.

Description

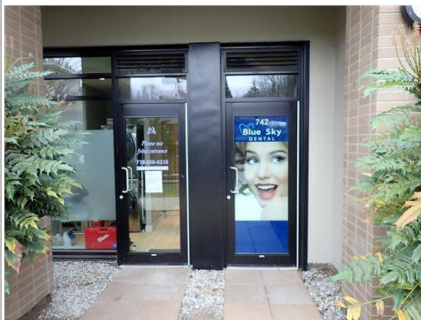
Vinyl frame swing door with insulating glazing units.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2039

Encl 18 - Aluminum Frame Glazed Swing Door



Location

Various commercial units on the ground level.

Description

Aluminum frame swing door with insulated glazing units.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2039

Encl 19 - Aluminum Frame Lobby Door



Location

Residential lobby entrance doors.

Description

Outswing aluminum-framed doors with astragal plate, automatic door operator, fixed IGU's, and low-profile thresholds with electric strike and hardware.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2034

Encl 20 - Aluminum Framed Double Sliding Entrance Door



Location

Various commercial units on the ground level.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Description

Aluminum framed commercial sliding glass doors with louvers.

Install Year: 2014
Next Event Year: 2034

Encl 21 - Vinyl Framed Sliding Glass Door



Location

Access to various balconies and decks on Levels 2-4.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

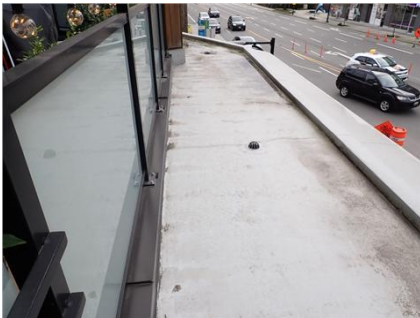
Description

Sliding glass doors, double insulating glazing units, vinyl framing.

Install Year: 2014
Next Event Year: 2044

Balconies

Encl 22 - Exposed Urethane Canopy Membrane - Concrete Substrate



Location

Canopies on Level 2.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Description

Liquid-applied urethane membrane applied over concrete canopies.

Install Year: 2014
Next Event Year: 2039

Encl 23 - Exposed Vinyl Balcony Membrane



Location

Balconies on Levels 3-4.

Information

Service Life: 15
Chronological Age: 7
Effective Age: 7

Description

Sheet vinyl membrane applied over wood balcony sheathing. The term 'balcony' refers to an exterior horizontal surface that is intended for pedestrian use, but which projects from the building such that it is not located over occupied space.

Install Year: 2014
Next Event Year: 2029

Parking Garage

Encl 24 - Open-grid Overhead Parkade Gate



Location

Entrances to commercial and residential parkades.

Description

Pre-finished metal grid overhead gate with motor drive and hardware. Residential gate was reinforced with new springs in 2020.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2039

Encl 25 - Parking Slab with Traffic-bearing Membrane



Location

Parkade entry ramp and commercial parkade on Level 1.

Description

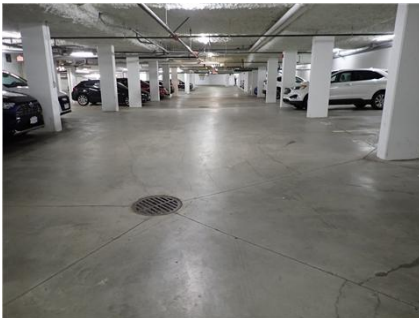
Traffic-bearing membrane on concrete ramp and suspended slab of commercial parkade.

Information

Service Life: 75
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2089

Encl 26 - Slab-on-Grade



Location

Residential parkade on P1.

Description

Concrete slab on grade.

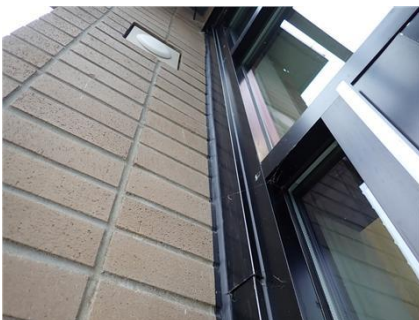
Information

Service Life: 75
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2089

General & Inspections

Encl 27 - Sealant



Location

Interfaces and service penetrations at the exterior walls, roofs, and other locations.

Description

Sealant of various types located at joints between building enclosure assemblies, as well as around components and penetrations within building enclosure assemblies.

Information

Service Life: 10
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2024

Encl 28 - General & Inspections



Location

Throughout the site.

Information

Service Life: 75
Chronological Age: 7
Effective Age: 7

Description

Miscellaneous interior and exterior components, such as service penetrations and interface details, not related to any particular assembly. Warranty and general reviews.

Install Year: 2014
Next Event Year: 2089

Electrical

Distribution

Elec 01 - Electrical Distribution



Location

Throughout the building, electrical rooms in parkade.

Information

Service Life: 40
Chronological Age: 7
Effective Age: 7

Description

Eaton, 1,600 A, 208/120V main disconnect switch; downstream switchboards, panelboards, breakers, switches, disconnects and wiring to mechanical, lighting and power loads throughout the building and to individual suites through BC Hydro owned metering devices.

Install Year: 2014
Next Event Year: 2054

Light Fixtures

Elec 02 - Exterior Light Fixtures



Location

Mounted to exterior walls and soffits.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Description

A variety of fixture types, including wall and soffit pot lighting for exterior direct, indirect and accent lighting applications. A variety of light fixture controls, including switches, motion sensors, timers, and photocells.

Install Year: 2014
Next Event Year: 2034

Elec 03 - Interior Light Fixtures



Location

All common areas throughout the building.

Description

A variety of fixture types, including fixed surface and recessed. A variety of lamp types, including fluorescent, compact fluorescent, halogen, LED, etc. for interior direct, indirect and accent lighting applications. A variety of light fixture controls, including switches, motion sensors, timers, dimmers, and photocells.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 20 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2034 |
| Effective Age: | 7 | | |

Security

Elec 04 - Enterphone System



Location

Entrances to residential lobby, parkade, and SES, surface mounted, enterphone panels with associated key pads and display panels.

Description

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 25 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2039 |
| Effective Age: | 7 | | |

Elec 05 - Proximity Access Control



Location

Common area entrances such as parkades (commercial and residential), garbage rooms, pedestrian access doors, common changeroom, amenity room, lobby, and elevator lobby.

Description

Local proximity access control system components include fob devices for building occupants, fob readers, RTE sensors/buttons, electric strikes, and door controllers. Network level components include door control panel, communication boards, backup batteries, RTE board, conduit, cable, and connectors.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 12 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2026 |
| Effective Age: | 7 | | |

Elec 06 - Security Surveillance



Location

Strategically located throughout the building and parkades.

Description

Cameras, multiplexer, monitors, and storage media to deter and track activity on and within building premises.

Information

Service Life: 14
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2028

Mechanical

Controls and End Devices

Mech 01 - Controls - Direct Digital



Location

Mechanical room in P1.

Description

Direct digital control panels to control heating of hydronic and domestic hot water systems.

Information

Service Life: 15
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2029

Mech 02 - Controls - HVAC Instrumentation - Gym HVAC



Location

Gym.

Description

Thermostats, programmable thermostats, flow gauges, thermometers, metering equipment, gauges, and other field devices to monitor and regulate pressure and temperature in the HVAC distribution system in the gym.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2034

Mech 03 - Gas Detection - Parkade



Location

Mounted to columns throughout the parkades.

Description

Electronic sensing devices for detection of dangerous gases, carbon monoxide (CO), propane, and combustible fuels produced by vehicles and to activate the exhaust fans accordingly.

Information

Service Life: 10
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2024

Mech 04 - Heat Tracing - Freeze Protection



Location

Throughout the parkades.

Description

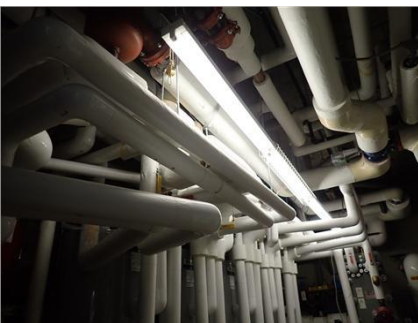
Nextron Tracemate heat trace controller for piping systems exposed to freezing (self regulating heater cable with parallel circuit heater strip and outer thermoplastic elastomer jacket); UL listed for pipe freeze protection on fire sprinkler system.

Information

Service Life: 15
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2029

Mech 05 - Controls - Electronic Actuators



Location

Mechanical room.

Description

Electronic motor-driven control devices on valves, dampers, etc. to control heating and domestic hot water system, etc.

Information

Service Life: 10
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2024

Plumbing & Drainage

Mech 06 - Drainage - Perimeter and Foundation



Location

Perimeter of P1.

Description

Perforated PVC piping forming part of a sub-surface foundation perimeter drainage system around underground structures.

Information

Service Life: 40
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2054

Mech 07 - Drainage - Storm - Internal



Location

Throughout the building.

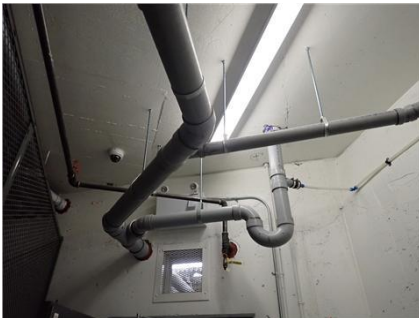
Description

Trench drains, catch basins and associated piping systems for rainwater runoff. Roof drains may be included with the roof assets.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 40 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2054 |
| Effective Age: | 7 | | |

Mech 08 - Drainage - Sanitary



Location

Connected to waste fixtures throughout the building.

Description

A mix of cast iron and ABS-DWV piping with mechanical joints and solvent joints; includes p-traps and fittings.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 50 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2064 |
| Effective Age: | 7 | | |

Mech 09 - Interceptor - Oil



Location

P1 parkade, adjacent to stall 41.

Description

Multi-chamber flow-through interceptor with hatches to grade.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 50 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2064 |
| Effective Age: | 7 | | |

Mech 10 - Interceptor - Sediment



Location

P1 parkade, adjacent to stall 55.

Description

Underslab concrete silt interceptor assembly with backwater valve, cast steel cover and frame

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 50 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2064 |
| Effective Age: | 7 | | |

Mech 11 - Pumps - Sanitary Lift and Control Panel



Location

P1 parkade, adjacent to stall 53.

Information

Service Life: 15
Chronological Age: 7
Effective Age: 7

Description

SES duplex, 1/2 HP, sanitary lift station sump pumps and control panels for sanitary lift/drainage.

Install Year: 2014
Next Event Year: 2029

Mech 12 - Pumps - Storm Lift and Control Panel



Location

P1 parkade, adjacent to stall 56.

Information

Service Life: 15
Chronological Age: 7
Effective Age: 7

Description

SES duplex, 3 HP, storm sump pumps and control panels for storm water runoff and sub-surface drainage.

Install Year: 2014
Next Event Year: 2029

Mech 13 - Piping - Domestic Water Distribution



Location

Connected to fixtures throughout the building.

Information

Service Life: 28
Chronological Age: 7
Effective Age: 7

Description

Mixture of copper for vertical/horizontal mains system and PEX distribution piping within the suites.

Install Year: 2014
Next Event Year: 2042

Mech 14 - Valves - Cross Connection & Backflow Prevention



Location

Mechanical room in P1.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Description

Various types and sizes of backflow prevention valves, including vacuum breakers, double check, reduced pressure valves on systems.

Install Year: 2014
Next Event Year: 2034

Mech 15 - Valves - Plumbing Flow Control and Directional



Location

Mechanical room in P1 and other various locations throughout the building.

Description

Various types and sizes of valves, including pressure reducing valves, isolation valves, two-way and three-way valves, circuit flow control valves and check valves to regulate the flow of water through domestic plumbing systems.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 12 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2026 |
| Effective Age: | 7 | | |

Mech 16 - Pump - DHW - Circulation and Recirculation



Location

Mechanical room.

Description

Pipe-mounted bronze body domestic hot water circulation pumps (P8 & P9).

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 10 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2024 |
| Effective Age: | 7 | | |

Mech 17 - Tank - DHW - Storage



Location

Mechanical room.

Description

A.O. Smith TJV-120M, 119 gallon tanks, glass-lined hot water storage tanks connected to heat exchanger.

Information

| | | | |
|--------------------|---|------------------|------|
| Service Life: | 8 | Install Year: | 2018 |
| Chronological Age: | 3 | Next Event Year: | 2026 |
| Effective Age: | 3 | | |

Mech 18 - Tank - Expansion -DHW - Diaphragm



Location

Mechanical room.

Description

Amtrol diaphragm expansion tank for domestic water system.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 20 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2034 |
| Effective Age: | 7 | | |

Mech 19 - Piping - Gas Distribution



Location

Throughout the building.

Information

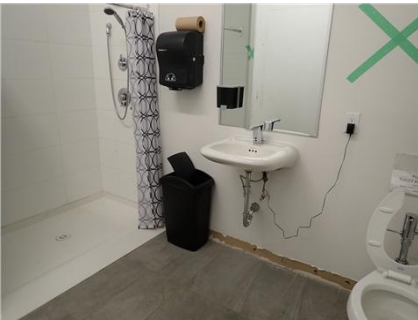
Service Life: 50
Chronological Age: 7
Effective Age: 7

Description

Gas distribution system consisting of threaded sch 40 steel piping from meter to gas appliances.

Install Year: 2014
Next Event Year: 2064

Mech 20 - Fixtures - Plumbing



Location

Common changeroom on Level 1.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Description

Shower, toilet, and sink.

Install Year: 2014
Next Event Year: 2039

Heating & Cooling

Mech 21 - Heat Exchanger - LEC [PLACEHOLDER]



Location

LEC mechanical room in parkade.

Information

Service Life: 20
Chronological Age: 0
Effective Age: 7

Description

Lonsdale Energy Corp heat exchanger to provide primary heating source to the building.

Install Year: 2021
Next Event Year: 2034

Mech 22 - Heat Exchanger - Plate & Frame



Location

Mechanical room.

Information

Service Life: 20
Chronological Age: 3
Effective Age: 3

Description

Bell & Gossett P47DW, plate-and-frame heat exchangers to separate domestic system from the main heating loop.

Install Year: 2018
Next Event Year: 2038

Mech 23 - Piping - Hydronic Distribution



Location

Throughout the building.

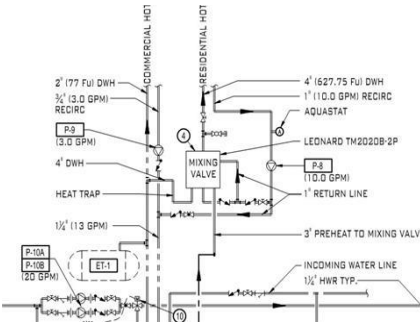
Description

Hydronic heating and cooling water supply and return system consisting of insulated carbon steel Sch 20/40 piping.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 30 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2044 |
| Effective Age: | 7 | | |

Mech 24 - Valves - HVAC Flow Control and Directional



Location

Mechanical room.

Description

Various types and sizes of valves, including pressure reducing valves, isolation valves, two-way and three-way valves, circuit flow control valves, and check valves to regulate the flow of water through heating systems.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 20 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2034 |
| Effective Age: | 7 | | |

Mech 25 - Pump - Hydronic Loop - Vertical Inline/Basement



Location

Mechanical room.

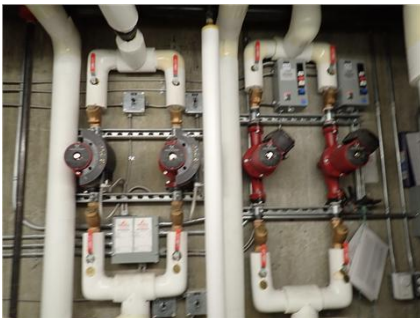
Description

Centrifugal vertical in-line and basemount pumps for heating water hydronic loop, fractional HP. (10A, 10B, 11A, 11B).

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 15 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2029 |
| Effective Age: | 7 | | |

Mech 26 - Pump - Hydronic Loop - Vertical Inline/Basement VFD



Location

Mechanical room.

Description

Centrifugal vertical in-line and basemount variable frequency drive (VFD) pumps for heating water hydronic loop, 1-3HP. (P-5A, 5B, 6A, 6B, 7A, 7B). 6A pump was replaced in 2021.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 15 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2029 |
| Effective Age: | 7 | | |

Mech 27 - Cartridge Filter - Hydronic



Location

Mechanical room.

Information

Service Life: 8
Chronological Age: 3
Effective Age: 3

Description

Axiom sidestream cartridge filter assembly to filter out debris in main heating loop.

Install Year: 2018
Next Event Year: 2026

Mech 28 - Glycol/Chem Treatment Fill Station



Location

Mechanical room.

Information

Service Life: 8
Chronological Age: 7
Effective Age: 7

Description

Axiom chemical bypass feeder to provide glycol treatment to pipes within main heating loop.

Install Year: 2014
Next Event Year: 2022

Mech 29 - Air Separator



Location

Mechanical room.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Description

Air separator to remove trapped air from fluids circulating in the closed hydronic system.

Install Year: 2014
Next Event Year: 2034

Mech 30 - Tank - Expansion - Hydronic - Diaphragm



Location

Mechanical room.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Description

Amtrol diaphragm expansion tank for hydronic heating system.

Install Year: 2014
Next Event Year: 2034

Mech 31 - Condensing Unit - Outdoor Section - AC Cooling only



Location

Commercial parkade, adjacent to stall C17.

Description

Condensing unit, 2.5 ton. Matched ceiling mounted indoor fan coil unit for air conditioning in the Amenity room.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 15 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2029 |
| Effective Age: | 7 | | |

Mech 32 - Fan Coil Unit



Location

Ground level residential corridor, adjacent to Amenity room.

Description

Ceiling suspended fan coil units on a ducted system for air conditioning and heating; matched condensing unit in parkade.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 15 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2029 |
| Effective Age: | 7 | | |

Mech 33 - Baseboard - Electric



Location

Service rooms, corridors, and locker rooms.

Description

Standard grade, wall mounted, electric convector baseboard heaters with electrical fins for localized space heating and integral thermostat control.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 40 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2054 |
| Effective Age: | 7 | | |

Mech 34 - Electric Cadet Heater



Location

Residential lobby.

Description

Wall-mounted electric fan heater with integral thermostat control for localized space heating.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 20 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2034 |
| Effective Age: | 7 | | |

Mech 35 - Fireplace - Electric



Location

Residential lobby.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

Description

Electric fireplace with hearth mantel and electric heating element.

Install Year: 2014
Next Event Year: 2044

Ventilation and Air-conditioning

Mech 36 - Make Up Air Unit - Hydronic



Location

Main roof.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Description

Engineered Air, air handling units, 2,200 CFM, belt-driven, centrifugal fan with hot water heating coil to supply tempered make-up air to the interior spaces.

Install Year: 2014
Next Event Year: 2039

Mech 37 - Exhaust Fan - Parkade



Location

Parkades.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Description

Belt driven propellers and cabinet exhaust fan mounted on ceilings and concrete walls.

Install Year: 2014
Next Event Year: 2034

Mech 38 - Coil - Electric - Duct Heater



Location

Ground level, Storage room #6.

Information

Service Life: 17
Chronological Age: 7
Effective Age: 7

Description

Electric duct heaters, 3.5 KW, duct-mounted with elements and controller.

Install Year: 2014
Next Event Year: 2031

Mech 39 - Fan - Small Service - Cabinet



Location

Service rooms and common changeroom.

Description

Direct drive, ceiling, and cabinet fans.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 12 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2026 |
| Effective Age: | 7 | | |

Other

Mech 40 - Overhead Gate Motor



Location

Entrances to commercial and residential parking areas.

Description

Liftmaster, 1/2 HP AC motor and door operator mechanism. Door not included in this asset.

Information

| | | | |
|--------------------|---|------------------|------|
| Service Life: | 7 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2022 |
| Effective Age: | 6 | | |

Elevator

Hydraulic

Elev 01 - Hydraulic Elevator, Holeless Twin Post



Location

Elevator machine room at level P1.

Description

One (1) twin post roped hydraulic passenger elevator; PLC control system; ELMO/IMO submersed motor pump unit; EECO control valve; 2500 lbs capacity; 125 fpm rated speed.

Information

| | | | |
|--------------------|----|------------------|------|
| Service Life: | 25 | Install Year: | 2014 |
| Chronological Age: | 7 | Next Event Year: | 2038 |
| Effective Age: | 8 | | |

Car Interiors

Elev 02 - Elevator Cabs & Hoistway



Location

Elevator cab interior, fixture, and hoistway.

Description

Single speed side opening door; stainless steel car and hall pushbuttons; one (1) stainless steel car operating panel; Infrared door protection; GAL MOVFR door operator; plastic laminate door and walls, stainless steel door header, front return; stainless steel panel ceiling with LED lighting; tile flooring; tube bar stainless steel handrails on all non-access walls; Firefighters' emergency operation provided; No standby power; Hands-free voice communication; No seismic provision.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 8

Install Year: 2014
Next Event Year: 2038

Fire Safety

Controls

Fire 01 - Fire Alarm Panel - Addressable



Location

Residential lobby and electrical room.

Description

Mircom FX2000, microprocessor and supervised unit with annunciator and display.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2034

Detection

Fire 02 - Fire Detection & Alarm



Location

Throughout the building.

Description

Smoke detectors, heat detectors, flow switches, tamper switches, horns, pull stations and other fixed apparatus field devices to detect fire and smoke conditions and initiate timely response.

Information

Service Life: 10
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2024

Suppression

Fire 03 - Sprinkler & Standpipe - Wet



Location

Throughout tempered interior space of the building.

Description

Sprinkler heads, flow switches and indicating devices, gauges, steel distribution lines.

Information

Service Life: 100
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2114

Fire 04 - Dry Sprinklers - Wet System



Location

Balconies and decks.

Description

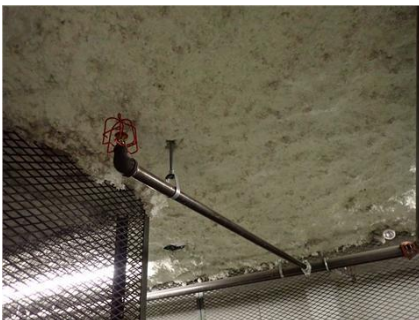
Dry sidewall sprinklers on a wet distribution system, extending from a heated space to unheated coverage area.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2044

Fire 05 - Sprinkler System - Dry



Location

Throughout the parkades.

Description

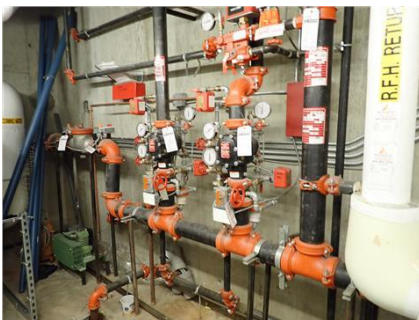
Exposed dry sprinklers, upright and sidewall sprinkler heads, steel piping.

Information

Service Life: 100
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2114

Fire 06 - Sprinkler Valve Assembly - Dry



Location

Mechanical room.

Description

FireLock NXT dry sprinkler valves, trim and gauges, steel piping.

Information

Service Life: 40
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2054

Fire 07 - Dry Sprinkler Compressor



Location

Mechanical room.

Information

Service Life: 14
Chronological Age: 7
Effective Age: 7

Description

Swan compressor with 2 HP motor to maintain the pressure of air in the dry fire sprinkler lines.

Install Year: 2014
Next Event Year: 2028

Fire 08 - Portable Fire Extinguisher



Location

Throughout the building.

Information

Service Life: 12
Chronological Age: 7
Effective Age: 7

Description

Wall mounted, manually operated, 5lbs and 10lbs ABC type, pressurized vessels for controlled discharge of chemicals to extinguish small fires.

Install Year: 2014
Next Event Year: 2026

Egress

Fire 09 - Emergency Egress Equipment



Location

Throughout the building.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Description

Unit battery packs and exit signs.

Install Year: 2014
Next Event Year: 2034

Interior Finishes

Floors

Finish 01 - Floor Tile



Location

Residential lobby, elevator vestibule, and common changeroom.

Information

Service Life: 40
Chronological Age: 7
Effective Age: 7

Description

Floor tile on thin set mortar with grout.

Install Year: 2014
Next Event Year: 2054

Finish 02 - Tile Carpet



Location

Residential hallways.

Information

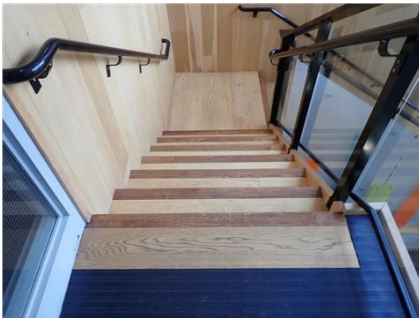
Service Life: 10
Chronological Age: 7
Effective Age: 7

Description

Synthetic, low level loop, textile floor carpet tile units glued over floor substrate.

Install Year: 2014
Next Event Year: 2024

Finish 03 - Wood Flooring



Location

Stairs at residential lobby.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Description

Wood laminate flooring.

Install Year: 2014
Next Event Year: 2034

Finish 04 - Gym Flooring



Location

Amenity room.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

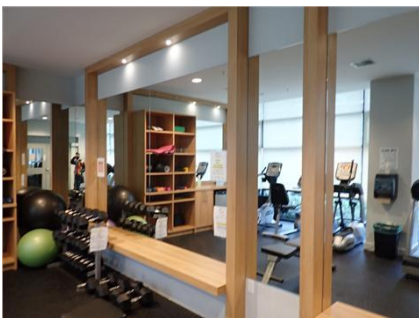
Description

Sheet gym flooring adhered to the substrate.

Install Year: 2014
Next Event Year: 2034

Walls

Finish 05 - Mirror



Location

Amenity room.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Description

Mirrored glass with structural fasteners to the substrate.

Install Year: 2014
Next Event Year: 2039

Finish 06 - Paint



Location

Interior common areas.

Information

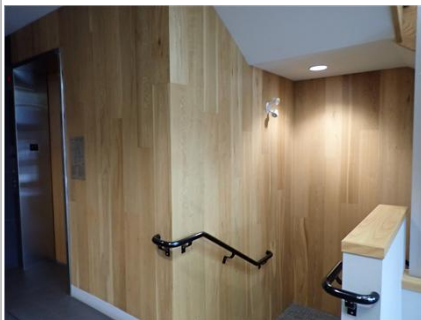
Service Life: 10
Chronological Age: 7
Effective Age: 7

Description

Primers and multiple pigmented coating finishes applied to interior gypsum wallboard.

Install Year: 2014
Next Event Year: 2024

Finish 07 - Wood Paneling



Location

Residential lobby, amenity room, and residential suite doors.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Description

Wood veneer on substrate sheathing and structural framing.

Install Year: 2014
Next Event Year: 2039

Architectural Woodwork

Finish 08 - Carpentry and Millwork



Location

Amenity room and residential lobby.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

Description

Shop fabricated custom casework, counters, and shelves.

Install Year: 2014
Next Event Year: 2044

Doors

Finish 09 - Interior Swing Door - General



Location

Throughout the building.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

Description

Solid or hollow core wood or hollow metal swing door hung in framed opening including hardware.

Install Year: 2014
Next Event Year: 2044

Amenities

Equipment

Amen 01 - Fitness Equipment



Location

Amenity room.

Information

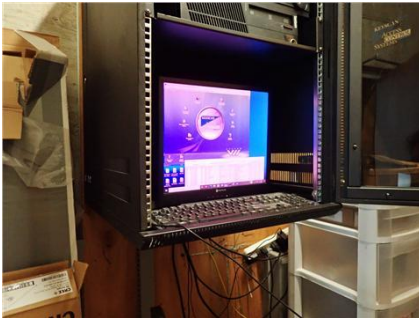
Service Life: 10
Chronological Age: 7
Effective Age: 7

Description

Various fitness machines and equipment.

Install Year: 2014
Next Event Year: 2024

Amen 02 - Computer Equipment



Location

Service room adjacent to residential lobby.

Information

Service Life: 6
Chronological Age: 2
Effective Age: 2

Description

Computer, monitor, keyboard and associated electronic devices required for general operations and management of the building.

Install Year: 2019
Next Event Year: 2025

Furnishings

Amen 03 - Central Mailboxes



Location

Residential lobby and mounted to wall on the south elevation for commercial.

Information

Service Life: 30
Chronological Age: 7
Effective Age: 7

Description

Front loading, brushed aluminum finish, and extruded aluminum trim.

Install Year: 2014
Next Event Year: 2044

Amen 04 - Public Signage



Location

Throughout the building.

Information

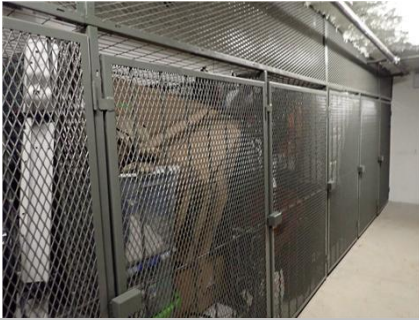
Service Life: 25
Chronological Age: 7
Effective Age: 7

Description

Variety of permanently displayed information placards in the common areas of the building.

Install Year: 2014
Next Event Year: 2039

Amen 05 - Metal Storage Locker



Location

Storage rooms and common changeroom.

Description

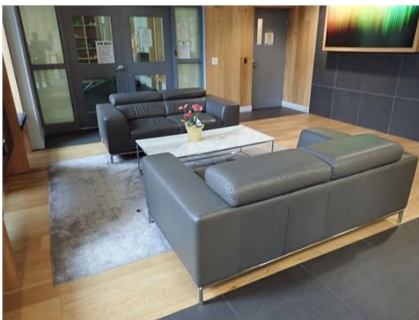
Metal storage locker and ganged locker set with doors and hardware.

Information

Service Life: 25
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2039

Amen 06 - Lobby Furniture



Location

Residential lobby.

Description

Sofas, coffee table, rug, etc.

Information

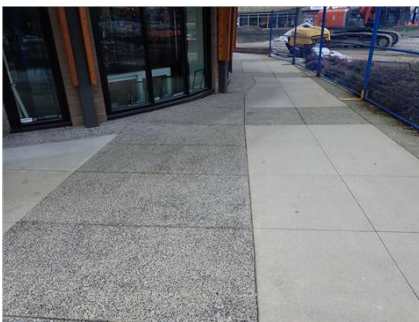
Service Life: 15
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2029

Sitework

Hard Landscaping

Site 01 - Concrete Walkways



Location

Perimeter of the building.

Description

Concrete walkways, cast with control and construction joints, onto compacted gravel base. Concrete finish consists of combination of exposed aggregate and broom finish.

Information

Service Life: 40
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2054

Site 02 - Water Feature



Location

Water feature on the south elevation.

Description

Water feature without membrane in basin and river rock adhered to shotcrete on wall. Circulation & filtration system as a separate asset.

Information

Service Life: 20
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2034

Site 03 - Water Feature Circulation & Filtration



Location

Water feature mechanical room.

Description

Recirculating pump, skimmer, PVC piping, valves, and UV filtration. Pump was last serviced in 2021.

Information

Service Life: 10
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2024

Site 04 - Wood Pergola



Location

Podium on Level 2.

Description

Timber frame pergola with columns, beams, and rafters.

Information

Service Life: 15
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2029

Site 05 - Metal Fencing and Trellis



Location

Adjacent to parkade ramp, entrances to commercial parade and the podium on Level 2.

Description

Prefinished metal fencing and trellises.

Information

Service Life: 40
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2054

Soft Landscaping

Site 06 - Irrigation System



Location

Controller in water feature mechanical room.

Description

Rainbird controller with time clock, network of pipes, valves, and irrigation heads distributed around the soft landscaping.

Information

Service Life: 15
Chronological Age: 7
Effective Age: 7

Install Year: 2014
Next Event Year: 2029

Site 07 - Soft Landscaping



Location

Perimeter of the building and podium on Level 2.

Information

Service Life: 15
Chronological Age: 7
Effective Age: 7

Description

Lawn, ground cover, shrubs, perennials, and small trees (up to 30').

Install Year: 2014
Next Event Year: 2029

Site Services

Site 08 - Electrical Site Services [PLACEHOLDER]



Location

North elevation.

Information

Service Life: 50
Chronological Age: 7
Effective Age: 7

Description

Underground secondary distribution conduits and services from individual pad mounted transformers to building electrical rooms. Property of BCHydro.

Install Year: 2014
Next Event Year: 2064

Site 09 - Underground Drainage Services - Storm



Location

Concealed asset, north elevation.

Information

Service Life: 80
Chronological Age: 7
Effective Age: 7

Description

Storm sewer from buildings and catch basins to property line.

Install Year: 2014
Next Event Year: 2094

Site 10 - Underground Sewer Services - Sewer



Location

Concealed asset, north elevation.

Information

Service Life: 80
Chronological Age: 7
Effective Age: 7

Description

Sanitary sewer system from the buildings to the property line, including all appurtenances.

Install Year: 2014
Next Event Year: 2094

Site 11 - Underground Natural Gas Service [PLACEHOLDER]



Location

North elevation.

Information

Service Life: 50
Chronological Age: 7
Effective Age: 7

Description

Natural gas pipe installed underground from the property line to the building. Property of gas provider.

Install Year: 2014
Next Event Year: 2064

Site 12 - Underground Water Services with PVC/Copper and Ductile Piping



Location

Concealed asset, north elevation.

Information

Service Life: 50
Chronological Age: 7
Effective Age: 7

Description

Fire/domestic water supplies, from the property line to the building.

Install Year: 2014
Next Event Year: 2064

Appendix C

Asset Service Life Summary

| Remix | | | |
|----------------------------|---|-------------------|------------------------|
| Asset Service Life Summary | | | |
| Report evaluated for 2021 | | | |
| Asset Ref | Asset Name | Chronological Age | Estimated Remaining SL |
| Structural | | | |
| Struct 01 | CIP Concrete Foundation and Basement Construction | 7 | 68 |
| Struct 02 | CIP Concrete Walls, Columns, and Slab | 7 | 68 |
| Struct 03 | Wood Structure | 7 | 68 |
| Enclosure | | | |
| Encl 01 | Exposed SBS Membrane Roof | 7 | 13 |
| Encl 02 | Protected SBS Membrane Deck (Conventional Assembly) | 7 | 23 |
| Encl 03 | Protected Liquid-Applied Membrane Podium | 7 | 23 |
| Encl 04 | Protected Liquid-Applied Membrane At-Grade | 7 | 23 |
| Encl 05 | Wood Soffit | 7 | 33 |
| Encl 06 | Glazed Aluminum Frame Divider | 7 | 23 |
| Encl 07 | Guardrail Glazed Aluminum | 7 | 23 |
| Encl 08 | Coated Concrete Wall | 7 | 68 |
| Encl 09 | Thin Brick Veneer Wall | 7 | 33 |
| Encl 10 | Fibre Cement Wall - Drained | 7 | 33 |
| Encl 11 | Wood Siding Wall - Drained | 7 | 28 |
| Encl 12 | Wood Trim | 7 | 23 |
| Encl 13 | Aluminum Storefront | 7 | 33 |
| Encl 14 | Operable Skylight | 7 | 18 |
| Encl 15 | Vinyl Framed Window | 7 | 23 |
| Encl 16 | Steel Swing Door | 7 | 18 |
| Encl 17 | Vinyl Frame Glazed Swing Door | 7 | 18 |
| Encl 18 | Aluminum Frame Glazed Swing Door | 7 | 18 |
| Encl 19 | Aluminum Frame Lobby Door | 7 | 13 |
| Encl 20 | Aluminum Framed Double Sliding Entrance Door | 7 | 13 |
| Encl 21 | Vinyl Framed Sliding Glass Door | 7 | 23 |
| Encl 22 | Exposed Urethane Canopy Membrane - Concrete Substrate | 7 | 18 |
| Encl 23 | Exposed Vinyl Balcony Membrane | 7 | 8 |
| Encl 24 | Open-grid Overhead Parkade Gate | 7 | 18 |
| Encl 25 | Parking Slab with Traffic-bearing Membrane | 7 | 68 |

| | | | | | |
|-------------------|---|---|--|----|--|
| Encl 26 | Slab-on-Grade | 7 | | 68 | |
| Encl 27 | Sealant | 7 | | 3 | |
| Encl 28 | General & Inspections | 7 | | 68 | |
| Electrical | | | | | |
| Elec 01 | Electrical Distribution | 7 | | 33 | |
| Elec 02 | Exterior Light Fixtures | 7 | | 13 | |
| Elec 03 | Interior Light Fixtures | 7 | | 13 | |
| Elec 04 | Enterphone System | 7 | | 18 | |
| Elec 05 | Proximity Access Control | 7 | | 5 | |
| Elec 06 | Security Surveillance | 7 | | 7 | |
| Mechanical | | | | | |
| Mech 01 | Controls - Direct Digital | 7 | | 8 | |
| Mech 02 | Controls - HVAC Instrumentation - Gym HVAC | 7 | | 13 | |
| Mech 03 | Gas Detection - Parkade | 7 | | 3 | |
| Mech 04 | Heat Tracing - Freeze Protection | 7 | | 8 | |
| Mech 05 | Controls - Electronic Actuators | 7 | | 3 | |
| Mech 06 | Drainage - Perimeter and Foundation | 7 | | 33 | |
| Mech 07 | Drainage - Storm - Internal | 7 | | 33 | |
| Mech 08 | Drainage - Sanitary | 7 | | 43 | |
| Mech 09 | Interceptor - Oil | 7 | | 43 | |
| Mech 10 | Interceptor - Sediment | 7 | | 43 | |
| Mech 11 | Pumps - Sanitary Lift and Control Panel | 7 | | 8 | |
| Mech 12 | Pumps - Storm Lift and Control Panel | 7 | | 8 | |
| Mech 13 | Piping - Domestic Water Distribution | 7 | | 21 | |
| Mech 14 | Valves - Cross Connection & Backflow Prevention | 7 | | 13 | |
| Mech 15 | Valves - Plumbing Flow Control and Directional | 7 | | 5 | |
| Mech 16 | Pump - DHW - Circulation and Recirculation | 7 | | 3 | |
| Mech 17 | Tank - DHW - Storage | 3 | | 5 | |
| Mech 18 | Tank - Expansion -DHW - Diaphragm | 7 | | 13 | |
| Mech 19 | Piping - Gas Distribution | 7 | | 43 | |
| Mech 20 | Fixtures - Plumbing | 7 | | 18 | |
| Mech 21 | Heat Exchanger - LEC [PLACEHOLDER] | 0 | | 13 | |
| Mech 22 | Heat Exchanger - Plate & Frame | 3 | | 17 | |
| Mech 23 | Piping - Hydronic Distribution | 7 | | 23 | |
| Mech 24 | Valves - HVAC Flow Control and Directional | 7 | | 13 | |

| | | | | | |
|---------|--|---|--------------------------|----|--------------------------|
| Mech 25 | Pump - Hydronic Loop - Vertical Inline/Basemount | 7 | <input type="checkbox"/> | 8 | <input type="checkbox"/> |
| Mech 26 | Pump - Hydronic Loop - Vertical Inline/Basemount VFD | 7 | <input type="checkbox"/> | 8 | <input type="checkbox"/> |
| Mech 27 | Cartridge Filter - Hydronic | 3 | <input type="checkbox"/> | 5 | <input type="checkbox"/> |
| Mech 28 | Glycol/Chem Treatment Fill Station | 7 | <input type="checkbox"/> | 1 | <input type="checkbox"/> |
| Mech 29 | Air Separator | 7 | <input type="checkbox"/> | 13 | <input type="checkbox"/> |
| Mech 30 | Tank - Expansion - Hydronic - Diaphragm | 7 | <input type="checkbox"/> | 13 | <input type="checkbox"/> |
| Mech 31 | Condensing Unit - Outdoor Section - AC Cooling only | 7 | <input type="checkbox"/> | 8 | <input type="checkbox"/> |
| Mech 32 | Fan Coil Unit | 7 | <input type="checkbox"/> | 8 | <input type="checkbox"/> |
| Mech 33 | Baseboard - Electric | 7 | <input type="checkbox"/> | 33 | <input type="checkbox"/> |
| Mech 34 | Electric Cadet Heater | 7 | <input type="checkbox"/> | 13 | <input type="checkbox"/> |
| Mech 35 | Fireplace - Electric | 7 | <input type="checkbox"/> | 23 | <input type="checkbox"/> |
| Mech 36 | Make Up Air Unit - Hydronic | 7 | <input type="checkbox"/> | 18 | <input type="checkbox"/> |
| Mech 37 | Exhaust Fan - Parkade | 7 | <input type="checkbox"/> | 13 | <input type="checkbox"/> |
| Mech 38 | Coil - Electric - Duct Heater | 7 | <input type="checkbox"/> | 10 | <input type="checkbox"/> |
| Mech 39 | Fan - Small Service - Cabinet | 7 | <input type="checkbox"/> | 5 | <input type="checkbox"/> |
| Mech 40 | Overhead Gate Motor | 7 | <input type="checkbox"/> | 1 | <input type="checkbox"/> |

Elevator



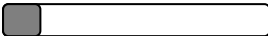
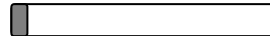
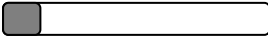
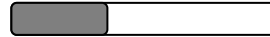
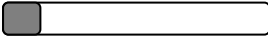

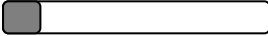

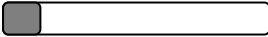
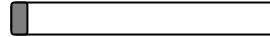
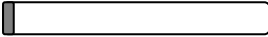
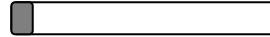












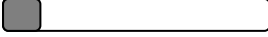
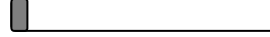
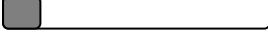
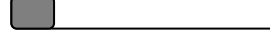
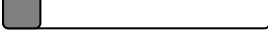

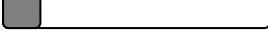
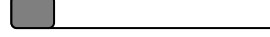
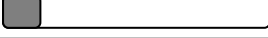
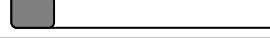
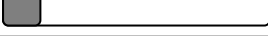

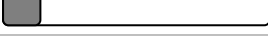

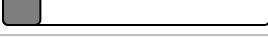

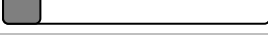

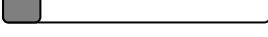

| | | | | | |
|---------|--|---|--------------------------|----|--------------------------|
| Elev 01 | Hydraulic Elevator, Holeless Twin Post | 7 | <input type="checkbox"/> | 17 | <input type="checkbox"/> |
| Elev 02 | Elevator Cabs & Hoistway | 7 | <input type="checkbox"/> | 17 | <input type="checkbox"/> |

Fire Safety

| | | | | | |
|---------|--------------------------------|---|--------------------------|----|--------------------------|
| Fire 01 | Fire Alarm Panel - Addressable | 7 | <input type="checkbox"/> | 13 | <input type="checkbox"/> |
| Fire 02 | Fire Detection & Alarm | 7 | <input type="checkbox"/> | 3 | <input type="checkbox"/> |
| Fire 03 | Sprinkler & Standpipe - Wet | 7 | <input type="checkbox"/> | 93 | <input type="checkbox"/> |
| Fire 04 | Dry Sprinklers - Wet System | 7 | <input type="checkbox"/> | 23 | <input type="checkbox"/> |
| Fire 05 | Sprinkler System - Dry | 7 | <input type="checkbox"/> | 93 | <input type="checkbox"/> |
| Fire 06 | Sprinkler Valve Assembly - Dry | 7 | <input type="checkbox"/> | 33 | <input type="checkbox"/> |
| Fire 07 | Dry Sprinkler Compressor | 7 | <input type="checkbox"/> | 7 | <input type="checkbox"/> |
| Fire 08 | Portable Fire Extinguisher | 7 | <input type="checkbox"/> | 5 | <input type="checkbox"/> |
| Fire 09 | Emergency Egress Equipment | 7 | <input type="checkbox"/> | 13 | <input type="checkbox"/> |

Interior Finishes

| | | | | | |
|-----------|---------------|---|--------------------------|----|--------------------------|
| Finish 01 | Floor Tile | 7 | <input type="checkbox"/> | 33 | <input type="checkbox"/> |
| Finish 02 | Tile Carpet | 7 | <input type="checkbox"/> | 3 | <input type="checkbox"/> |
| Finish 03 | Wood Flooring | 7 | <input type="checkbox"/> | 13 | <input type="checkbox"/> |
| Finish 04 | Gym Flooring | 7 | <input type="checkbox"/> | 13 | <input type="checkbox"/> |

| | | | | | |
|------------------|---|---|--|----|---|
| Finish 05 | Mirror | 7 |  | 18 |  |
| Finish 06 | Paint | 7 |  | 3 |  |
| Finish 07 | Wood Paneling | 7 |  | 18 |  |
| Finish 08 | Carpentry and Millwork | 7 |  | 23 |  |
| Finish 09 | Interior Swing Door - General | 7 |  | 23 |  |
| Amenities | | | | | |
| Amen 01 | Fitness Equipment | 7 |  | 3 |  |
| Amen 02 | Computer Equipment | 2 |  | 4 |  |
| Amen 03 | Central Mailboxes | 7 |  | 23 |  |
| Amen 04 | Public Signage | 7 |  | 18 |  |
| Amen 05 | Metal Storage Locker | 7 |  | 18 |  |
| Amen 06 | Lobby Furniture | 7 |  | 8 |  |
| Sitework | | | | | |
| Site 01 | Concrete Walkways | 7 |  | 33 |  |
| Site 02 | Water Feature | 7 |  | 13 |  |
| Site 03 | Water Feature Circulation & Filtration | 7 |  | 3 |  |
| Site 04 | Wood Pergola | 7 |  | 8 |  |
| Site 05 | Metal Fencing and Trellis | 7 |  | 33 |  |
| Site 06 | Irrigation System | 7 |  | 8 |  |
| Site 07 | Soft Landscaping | 7 |  | 8 |  |
| Site 08 | Electrical Site Services [PLACEHOLDER] | 7 |  | 43 |  |
| Site 09 | Underground Drainage Services - Storm | 7 |  | 73 |  |
| Site 10 | Underground Sewer Services - Sewer | 7 |  | 73 |  |
| Site 11 | Underground Natural Gas Service [PLACEHOLDER] | 7 |  | 43 |  |
| Site 12 | Underground Water Services with PVC/Copper and Ductile Piping | 7 |  | 43 |  |

Appendix D

Disclosures and Disclaimers

Disclosures and Disclaimers

Condition of the Assets

The method of determining the physical condition of the assets is based on a visual review of a representative sampling of the assets in readily accessible locations, discussions with facility representatives, and review of readily available reference documents. No destructive testing or exploratory openings are carried out on any of the assets and the equipment is not disassembled, operated, or subject to re-commissioning tests. The physical review is not a full “condition assessment” since operating, testing, or exploratory openings are excluded from the scope of services.

Cost Estimating for Assets

- All estimates of costs are provided in future year dollars.
- All estimates of costs are Class D estimates intended for planning purposes and not for accounting or tender use. See Glossary of Terms for definition of Class D estimates.
- Actual costs will vary depending on several factors. The estimates assume economies of scale will be achieved by bundling work tasks together into larger renewal, repair, or rehabilitation projects. Small tasks performed individually may exceed the estimates presented.
- Soft costs, such as consulting services and contingency allowances are not included in the budget estimates. When developing cost estimates for projects in greater detail for budgeting, each project should include appropriate soft costs - such as Owner contingency, permit fees, engineering fees, etc. Depending on the sizes, scope and timing of individual projects, the magnitude of the soft costs will vary.
- Construction costs are subject to the vagaries of the marketplace. At the time of tender, costs may vary depending on the time of the year, contractor availability, and other factors.
- The estimates must be updated over time, further developed for scope of work and confirmed by competitive tender before any contracts are awarded.
- Detailed repair specifications are required to be prepared in order to confirm scopes of work and costs.
- The estimates do not include allowances for site specific access requirements or environmental concerns, which should be addressed on a project-by-project basis.
- Consideration may sometimes need to be given to costs arising from the impact of projects on occupancy use and facility operations.
- Replacement costs are typically based on like-for-like with a similar asset unless code or other circumstances require the replacement cost to include an upgrade.

Maintenance of the Assets:

The maintenance checklists are not exhaustive and are intended as a framework for the ongoing refinement of the maintenance program.

- Work must only be carried out by appropriately qualified personnel who have the necessary and sufficient knowledge about the maintenance tasks and maintenance intervals.
- The manufacturers' latest printed instructions should take precedence in the event of any conflict with the maintenance checklists.
- The Owners' maintenance staff and/or service contractors are responsible to verify what is contained in the manufacturers' documentation regarding recommended maintenance procedures and intervals.
- The maintenance checklists and maintenance intervals should be reviewed annually and adjusted, as required, to reflect the service environment, feedback from contractors, etc.

Specialist and Non-Specialist Reviews

Our personnel collect the asset inventory data for all the different systems, including mechanical, plumbing, fire safety, elevator, electrical, interior finishes, and sitework. Our scope of services is to identify the assets within each system, determine their age and report on their reasonable service life-cycles according to accepted industry standards. RDH personnel do not make observations with regard to specialty building system conditions unless specifically addressed in our proposal.

Forecasting the Useful Service Life of Assets

The service life of assets can be affected by a variety of circumstances, including the following:

- The quality of the maintenance conducted on an asset will affect the service life of the asset. Poor maintenance can lead to a reduced service life and may result in the premature failure of an asset.
- Insurable losses (force majeure), such as earthquakes, fires, and floods can shorten the life of an asset. These events are not considered in a Depreciation Report.
- Asset service life in a Depreciation Report is determined according to accepted industry standards.

Funding Models

The funding models for Depreciation Reports are based on a 30-year horizon and use "future year dollars termed" methodology. This methodology projects the costs (in future year dollars) over the planning horizon and not beyond the terminus year of the planning horizon. The current year is the starting year of the planning horizon. The term,

therefore, matches the initial horizon and does not respect a shifting horizon. This means that in year 1 the funding scenarios will look forward for 30 years.

For example, in 2012 the model looks forward to 2042. In year two, it will be accurate for 29 years, as it is only looking forward to year 2042. When an update study is performed in three years, the revised funding scenarios will look forward 30 years from 2015 to 2045. Renewal and major maintenance projects that occur beyond the 30-year planning horizon are not considered in the scenarios; that is, those projects that occur beyond 30 years are unfunded in the funding scenarios.

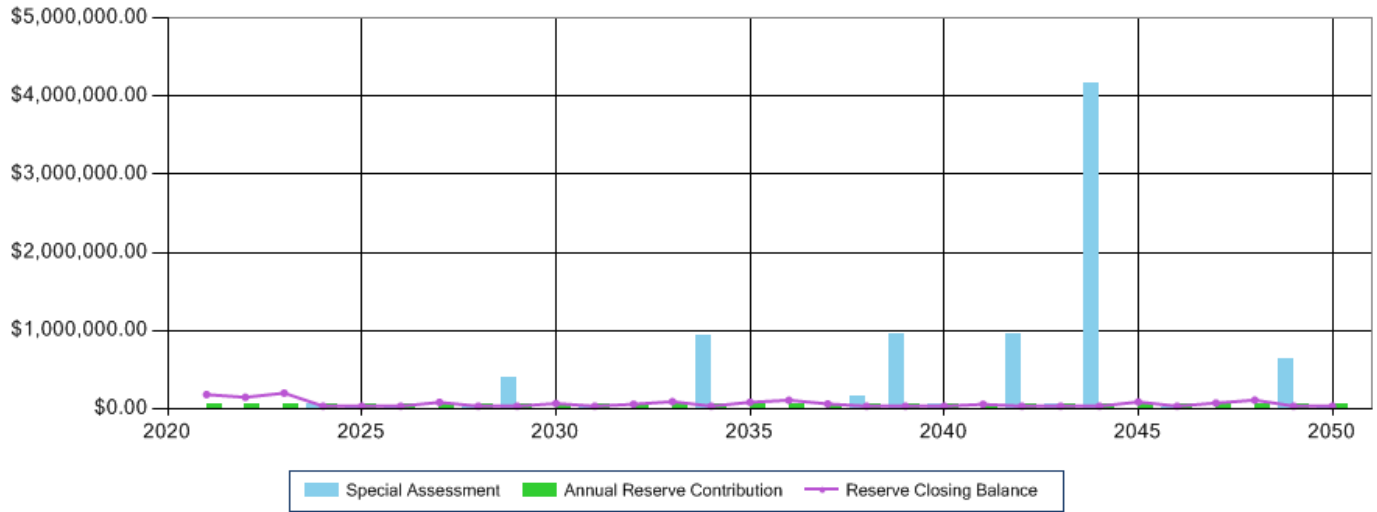
Appendix E

Funding Scenario Cash Flow Tables



| | | | |
|---------------------------------|---|--------------------------------|-----------|
| Name | 2021 Fixed Annual Funding: \$53,600 (Current) | | |
| Type | Basic | Init Catchup Cost | \$0 |
| Regarding | Remix | Operating Budget | |
| Start Year | 2021 | Starting Reserve Balance | \$161,706 |
| Interest/Investment Rate | 2.0% | Reserve Contribution Threshold | \$500,000 |
| Estimated Contingency Allowance | \$1,000 | Contribution Below Threshold | \$53,600 |
| Tax Rate | 0.0% | Contribution Above Threshold | \$53,600 |
| Planning Horizon | 30 | Reserve Contribution Increase | 0.00 % |
| Number Of Units | 70 | Monthly Avg. Unit Contribution | \$64 |

| Year | Opening Balance | Reserve Contribution | Special Assessment | Reserve Income | Renewal Costs | Contingency Costs | Tax Liability | Closing Balance | Percent Funded |
|------|-----------------|----------------------|--------------------|----------------|---------------|-------------------|---------------|-----------------|----------------|
| 2021 | \$161,706 | \$53,600 | \$0 | \$3,234 | \$35,000 | \$1,000 | \$0 | \$182,540 | 12.77 % |
| 2022 | \$182,540 | \$53,600 | \$0 | \$3,651 | \$90,900 | \$1,000 | \$0 | \$147,891 | 9.14 % |
| 2023 | \$147,891 | \$53,600 | \$0 | \$2,958 | \$2,100 | \$1,000 | \$0 | \$201,349 | 10.55 % |
| 2024 | \$201,349 | \$53,600 | \$60,044 | \$4,027 | \$283,020 | \$1,000 | \$0 | \$35,000 | 1.82 % |
| 2025 | \$35,000 | \$53,600 | \$29,500 | \$700 | \$82,800 | \$1,000 | \$0 | \$35,000 | 1.62 % |
| 2026 | \$35,000 | \$53,600 | \$23,530 | \$700 | \$76,830 | \$1,000 | \$0 | \$35,000 | 1.46 % |
| 2027 | \$35,000 | \$53,600 | \$0 | \$700 | \$5,600 | \$1,000 | \$0 | \$82,700 | 3.03 % |
| 2028 | \$82,700 | \$53,600 | \$13,546 | \$1,654 | \$115,500 | \$1,000 | \$0 | \$35,000 | 1.18 % |
| 2029 | \$35,000 | \$53,600 | \$398,680 | \$700 | \$451,980 | \$1,000 | \$0 | \$35,000 | 1.22 % |
| 2030 | \$35,000 | \$53,600 | \$0 | \$700 | \$20,500 | \$1,000 | \$0 | \$67,800 | 2.12 % |
| 2031 | \$67,800 | \$53,600 | \$43,144 | \$1,356 | \$129,900 | \$1,000 | \$0 | \$35,000 | 1.01 % |
| 2032 | \$35,000 | \$53,600 | \$0 | \$700 | \$28,720 | \$1,000 | \$0 | \$59,580 | 1.56 % |
| 2033 | \$59,580 | \$53,600 | \$0 | \$1,192 | \$21,000 | \$1,000 | \$0 | \$92,372 | 2.20 % |
| 2034 | \$92,372 | \$53,600 | \$943,601 | \$1,847 | \$1,055,420 | \$1,000 | \$0 | \$35,000 | 0.99 % |
| 2035 | \$35,000 | \$53,600 | \$0 | \$700 | \$3,900 | \$1,000 | \$0 | \$84,400 | 2.16 % |
| 2036 | \$84,400 | \$53,600 | \$0 | \$1,688 | \$28,700 | \$1,000 | \$0 | \$109,988 | 2.58 % |
| 2037 | \$109,988 | \$53,600 | \$0 | \$2,200 | \$102,000 | \$1,000 | \$0 | \$62,788 | 1.37 % |
| 2038 | \$62,788 | \$53,600 | \$149,856 | \$1,256 | \$231,500 | \$1,000 | \$0 | \$35,000 | 0.73 % |
| 2039 | \$35,000 | \$53,600 | \$945,400 | \$700 | \$998,700 | \$1,000 | \$0 | \$35,000 | 0.84 % |
| 2040 | \$35,000 | \$53,600 | \$59,200 | \$700 | \$112,500 | \$1,000 | \$0 | \$35,000 | 0.79 % |
| 2041 | \$35,000 | \$53,600 | \$0 | \$700 | \$30,500 | \$1,000 | \$0 | \$57,800 | 1.21 % |
| 2042 | \$57,800 | \$53,600 | \$959,044 | \$1,156 | \$1,035,600 | \$1,000 | \$0 | \$35,000 | 0.84 % |
| 2043 | \$35,000 | \$53,600 | \$62,000 | \$700 | \$115,300 | \$1,000 | \$0 | \$35,000 | 0.80 % |
| 2044 | \$35,000 | \$53,600 | \$4,156,040 | \$700 | \$4,209,340 | \$1,000 | \$0 | \$35,000 | 8.08 % |
| 2045 | \$35,000 | \$53,600 | \$0 | \$700 | \$0 | \$1,000 | \$0 | \$88,300 | 15.93 % |
| 2046 | \$88,300 | \$53,600 | \$23,134 | \$1,766 | \$130,800 | \$1,000 | \$0 | \$35,000 | 6.42 % |
| 2047 | \$35,000 | \$53,600 | \$0 | \$700 | \$13,400 | \$1,000 | \$0 | \$74,900 | 11.75 % |
| 2048 | \$74,900 | \$53,600 | \$0 | \$1,498 | \$17,300 | \$1,000 | \$0 | \$111,698 | 15.36 % |
| 2049 | \$111,698 | \$53,600 | \$632,168 | \$2,234 | \$763,700 | \$1,000 | \$0 | \$35,000 | 56.45 % |
| 2050 | \$35,000 | \$53,600 | \$19,290 | \$700 | \$72,590 | \$1,000 | \$0 | \$35,000 | 100.00 % |
| | | \$1,608,000 | \$8,518,178 | | \$10,265,100 | | | | |

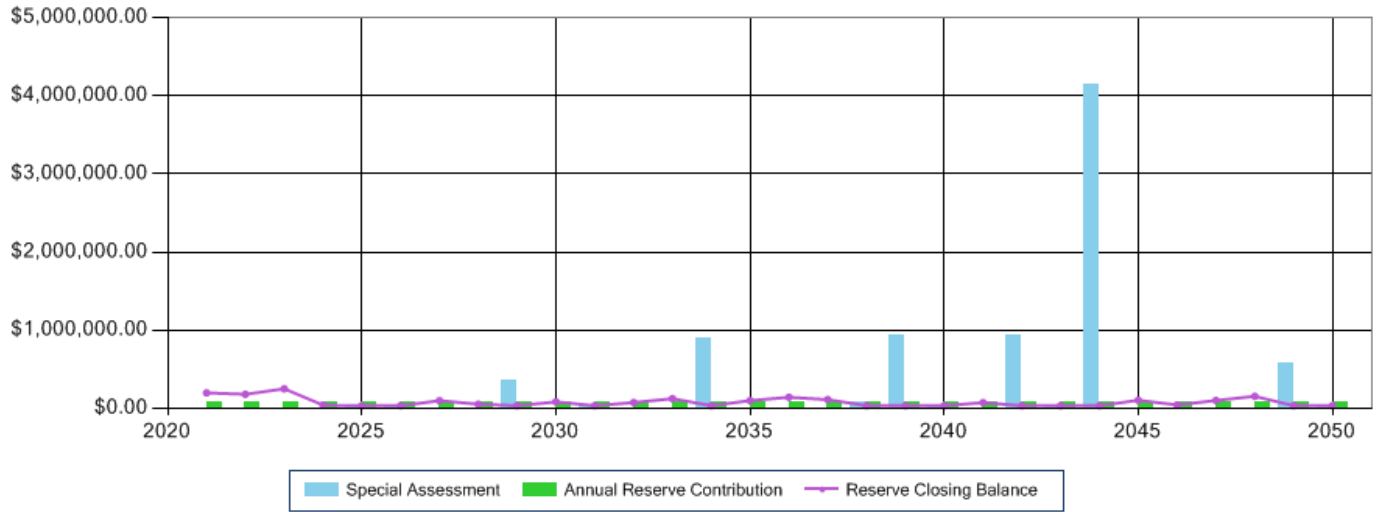




| | |
|---------------------------------|--|
| Name | 2021 Fixed Annual Funding: \$70,000 (Alternative 1) |
| Type | Basic |
| Regarding | Remix |
| Start Year | 2021 |
| Interest/Investment Rate | 2.0% |
| Estimated Contingency Allowance | \$1,000 |
| Tax Rate | 0.0% |
| Planning Horizon | 30 |
| Number Of Units | 70 |

| | |
|--------------------------------|-----------|
| Init Catchup Cost | \$0 |
| Operating Budget | |
| Starting Reserve Balance | \$161,706 |
| Reserve Contribution Threshold | \$500,000 |
| Contribution Below Threshold | \$70,000 |
| Contribution Above Threshold | \$70,000 |
| Reserve Contribution Increase | 0.00 % |
| Monthly Avg. Unit Contribution | \$83 |

| Year | Opening Balance | Reserve Contribution | Special Assessment | Reserve Income | Renewal Costs | Contingency Costs | Tax Liability | Closing Balance | Percent Funded |
|------|-----------------|----------------------|--------------------|----------------|---------------|-------------------|---------------|-----------------|----------------|
| 2021 | \$161,706 | \$70,000 | \$0 | \$3,234 | \$35,000 | \$1,000 | \$0 | \$198,940 | 13.92 % |
| 2022 | \$198,940 | \$70,000 | \$0 | \$3,979 | \$90,900 | \$1,000 | \$0 | \$181,019 | 11.18 % |
| 2023 | \$181,019 | \$70,000 | \$0 | \$3,620 | \$2,100 | \$1,000 | \$0 | \$251,539 | 13.19 % |
| 2024 | \$251,539 | \$70,000 | \$0 | \$5,031 | \$283,020 | \$1,000 | \$0 | \$42,550 | 2.21 % |
| 2025 | \$42,550 | \$70,000 | \$5,399 | \$851 | \$82,800 | \$1,000 | \$0 | \$35,000 | 1.62 % |
| 2026 | \$35,000 | \$70,000 | \$7,130 | \$700 | \$76,830 | \$1,000 | \$0 | \$35,000 | 1.46 % |
| 2027 | \$35,000 | \$70,000 | \$0 | \$700 | \$5,600 | \$1,000 | \$0 | \$99,100 | 3.63 % |
| 2028 | \$99,100 | \$70,000 | \$0 | \$1,982 | \$115,500 | \$1,000 | \$0 | \$54,582 | 1.85 % |
| 2029 | \$54,582 | \$70,000 | \$362,306 | \$1,092 | \$451,980 | \$1,000 | \$0 | \$35,000 | 1.22 % |
| 2030 | \$35,000 | \$70,000 | \$0 | \$700 | \$20,500 | \$1,000 | \$0 | \$84,200 | 2.63 % |
| 2031 | \$84,200 | \$70,000 | \$10,016 | \$1,684 | \$129,900 | \$1,000 | \$0 | \$35,000 | 1.01 % |
| 2032 | \$35,000 | \$70,000 | \$0 | \$700 | \$28,720 | \$1,000 | \$0 | \$75,980 | 1.99 % |
| 2033 | \$75,980 | \$70,000 | \$0 | \$1,520 | \$21,000 | \$1,000 | \$0 | \$125,500 | 3.00 % |
| 2034 | \$125,500 | \$70,000 | \$893,410 | \$2,510 | \$1,055,420 | \$1,000 | \$0 | \$35,000 | 0.99 % |
| 2035 | \$35,000 | \$70,000 | \$0 | \$700 | \$3,900 | \$1,000 | \$0 | \$100,800 | 2.58 % |
| 2036 | \$100,800 | \$70,000 | \$0 | \$2,016 | \$28,700 | \$1,000 | \$0 | \$143,116 | 3.36 % |
| 2037 | \$143,116 | \$70,000 | \$0 | \$2,862 | \$102,000 | \$1,000 | \$0 | \$112,978 | 2.47 % |
| 2038 | \$112,978 | \$70,000 | \$82,262 | \$2,260 | \$231,500 | \$1,000 | \$0 | \$35,000 | 0.73 % |
| 2039 | \$35,000 | \$70,000 | \$929,000 | \$700 | \$998,700 | \$1,000 | \$0 | \$35,000 | 0.84 % |
| 2040 | \$35,000 | \$70,000 | \$42,800 | \$700 | \$112,500 | \$1,000 | \$0 | \$35,000 | 0.79 % |
| 2041 | \$35,000 | \$70,000 | \$0 | \$700 | \$30,500 | \$1,000 | \$0 | \$74,200 | 1.55 % |
| 2042 | \$74,200 | \$70,000 | \$925,916 | \$1,484 | \$1,035,600 | \$1,000 | \$0 | \$35,000 | 0.84 % |
| 2043 | \$35,000 | \$70,000 | \$45,600 | \$700 | \$115,300 | \$1,000 | \$0 | \$35,000 | 0.80 % |
| 2044 | \$35,000 | \$70,000 | \$4,139,640 | \$700 | \$4,209,340 | \$1,000 | \$0 | \$35,000 | 8.08 % |
| 2045 | \$35,000 | \$70,000 | \$0 | \$700 | \$0 | \$1,000 | \$0 | \$104,700 | 18.89 % |
| 2046 | \$104,700 | \$70,000 | \$0 | \$2,094 | \$130,800 | \$1,000 | \$0 | \$44,994 | 8.25 % |
| 2047 | \$44,994 | \$70,000 | \$0 | \$900 | \$13,400 | \$1,000 | \$0 | \$101,494 | 15.93 % |
| 2048 | \$101,494 | \$70,000 | \$0 | \$2,030 | \$17,300 | \$1,000 | \$0 | \$155,224 | 21.35 % |
| 2049 | \$155,224 | \$70,000 | \$571,372 | \$3,104 | \$763,700 | \$1,000 | \$0 | \$35,000 | 56.45 % |
| 2050 | \$35,000 | \$70,000 | \$2,890 | \$700 | \$72,590 | \$1,000 | \$0 | \$35,000 | 100.00 % |
| | | \$2,100,000 | \$8,017,742 | | \$10,265,100 | | | | |

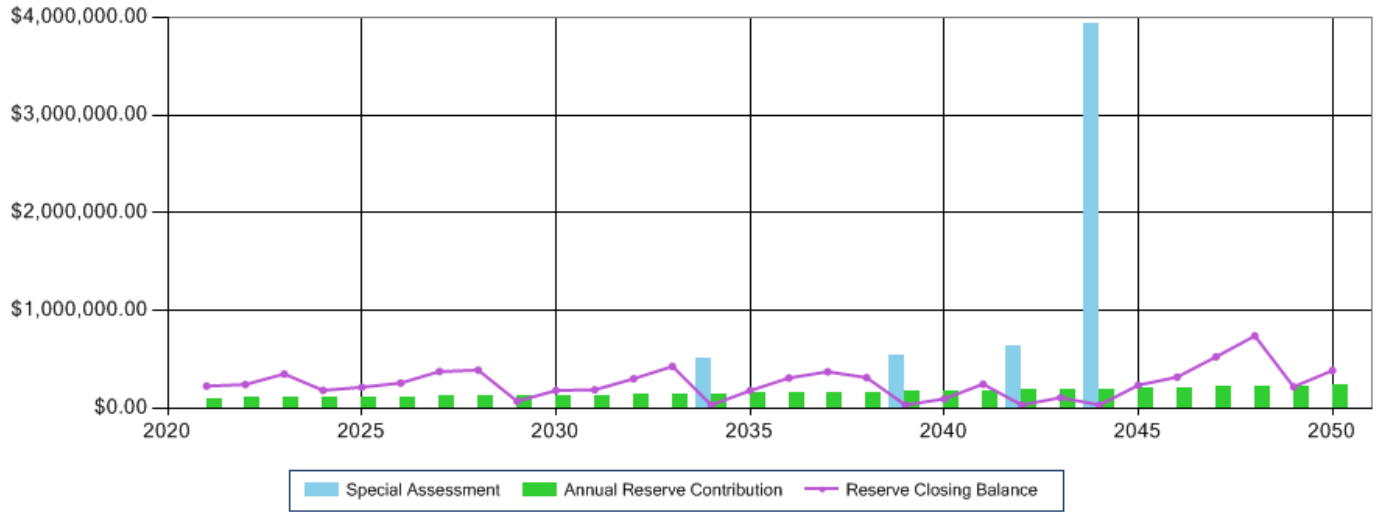




| | |
|---------------------------------|--|
| Name | 2021 Incre. Annual Funding: \$100,000 + 3% (Alternative 2) |
| Type | Basic |
| Regarding | Remix |
| Start Year | 2021 |
| Interest/Investment Rate | 2.0% |
| Estimated Contingency Allowance | \$1,000 |
| Tax Rate | 0.0% |
| Planning Horizon | 30 |
| Number Of Units | 70 |

| | |
|--------------------------------|-----------|
| Init Catchup Cost | \$0 |
| Operating Budget | |
| Starting Reserve Balance | \$161,706 |
| Reserve Contribution Threshold | \$500,000 |
| Contribution Below Threshold | \$100,000 |
| Contribution Above Threshold | \$100,000 |
| Reserve Contribution Increase | 3.00 % |
| Monthly Avg. Unit Contribution | \$119 |

| Year | Opening Balance | Reserve Contribution | Special Assessment | Reserve Income | Renewal Costs | Contingency Costs | Tax Liability | Closing Balance | Percent Funded |
|------|-----------------|----------------------|--------------------|----------------|---------------|-------------------|---------------|-----------------|----------------|
| 2021 | \$161,706 | \$100,000 | \$0 | \$3,234 | \$35,000 | \$1,000 | \$0 | \$228,940 | 16.02 % |
| 2022 | \$228,940 | \$103,000 | \$0 | \$4,579 | \$90,900 | \$1,000 | \$0 | \$244,619 | 15.11 % |
| 2023 | \$244,619 | \$106,090 | \$0 | \$4,892 | \$2,100 | \$1,000 | \$0 | \$352,501 | 18.48 % |
| 2024 | \$352,501 | \$109,273 | \$0 | \$7,050 | \$283,020 | \$1,000 | \$0 | \$184,804 | 9.63 % |
| 2025 | \$184,804 | \$112,551 | \$0 | \$3,696 | \$82,800 | \$1,000 | \$0 | \$217,251 | 10.10 % |
| 2026 | \$217,251 | \$115,927 | \$0 | \$4,345 | \$76,830 | \$1,000 | \$0 | \$259,693 | 10.84 % |
| 2027 | \$259,693 | \$119,405 | \$0 | \$5,194 | \$5,600 | \$1,000 | \$0 | \$377,693 | 13.87 % |
| 2028 | \$377,693 | \$122,987 | \$0 | \$7,554 | \$115,500 | \$1,000 | \$0 | \$391,734 | 13.27 % |
| 2029 | \$391,734 | \$126,677 | \$0 | \$7,835 | \$451,980 | \$1,000 | \$0 | \$73,265 | 2.57 % |
| 2030 | \$73,265 | \$130,477 | \$0 | \$1,465 | \$20,500 | \$1,000 | \$0 | \$183,708 | 5.74 % |
| 2031 | \$183,708 | \$134,392 | \$0 | \$3,674 | \$129,900 | \$1,000 | \$0 | \$190,874 | 5.54 % |
| 2032 | \$190,874 | \$138,423 | \$0 | \$3,817 | \$28,720 | \$1,000 | \$0 | \$303,395 | 7.97 % |
| 2033 | \$303,395 | \$142,576 | \$0 | \$6,068 | \$21,000 | \$1,000 | \$0 | \$430,038 | 10.28 % |
| 2034 | \$430,038 | \$146,853 | \$505,928 | \$8,601 | \$1,055,420 | \$1,000 | \$0 | \$35,000 | 0.99 % |
| 2035 | \$35,000 | \$151,259 | \$0 | \$700 | \$3,900 | \$1,000 | \$0 | \$182,059 | 4.67 % |
| 2036 | \$182,059 | \$155,797 | \$0 | \$3,641 | \$28,700 | \$1,000 | \$0 | \$311,797 | 7.32 % |
| 2037 | \$311,797 | \$160,471 | \$0 | \$6,236 | \$102,000 | \$1,000 | \$0 | \$375,503 | 8.23 % |
| 2038 | \$375,503 | \$165,285 | \$0 | \$7,510 | \$231,500 | \$1,000 | \$0 | \$315,798 | 6.65 % |
| 2039 | \$315,798 | \$170,243 | \$542,343 | \$6,316 | \$998,700 | \$1,000 | \$0 | \$35,000 | 0.84 % |
| 2040 | \$35,000 | \$175,351 | \$0 | \$700 | \$112,500 | \$1,000 | \$0 | \$97,551 | 2.21 % |
| 2041 | \$97,551 | \$180,611 | \$0 | \$1,951 | \$30,500 | \$1,000 | \$0 | \$248,613 | 5.20 % |
| 2042 | \$248,613 | \$186,029 | \$631,986 | \$4,972 | \$1,035,600 | \$1,000 | \$0 | \$35,000 | 0.84 % |
| 2043 | \$35,000 | \$191,610 | \$0 | \$700 | \$115,300 | \$1,000 | \$0 | \$111,010 | 2.54 % |
| 2044 | \$111,010 | \$197,359 | \$3,934,751 | \$2,220 | \$4,209,340 | \$1,000 | \$0 | \$35,000 | 8.08 % |
| 2045 | \$35,000 | \$203,279 | \$0 | \$700 | \$0 | \$1,000 | \$0 | \$237,979 | 42.95 % |
| 2046 | \$237,979 | \$209,378 | \$0 | \$4,760 | \$130,800 | \$1,000 | \$0 | \$320,317 | 58.77 % |
| 2047 | \$320,317 | \$215,659 | \$0 | \$6,406 | \$13,400 | \$1,000 | \$0 | \$527,982 | 82.88 % |
| 2048 | \$527,982 | \$222,129 | \$0 | \$10,560 | \$17,300 | \$1,000 | \$0 | \$742,370 | 102.11 % |
| 2049 | \$742,370 | \$228,793 | \$0 | \$14,847 | \$763,700 | \$1,000 | \$0 | \$221,310 | 356.95 % |
| 2050 | \$221,310 | \$235,656 | \$0 | \$4,426 | \$72,590 | \$1,000 | \$0 | \$387,803 | 100.00 % |
| | | \$4,757,539 | \$5,615,007 | | \$10,265,100 | | | | |

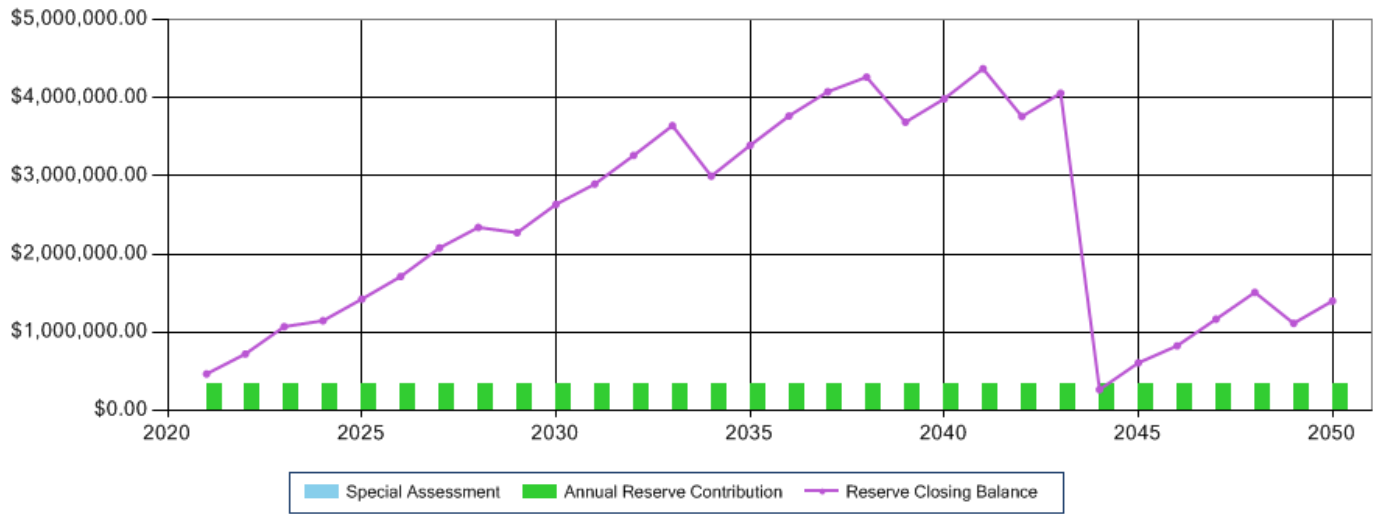




| | |
|---------------------------------|---|
| Name | 2021 Fixed Annual Funding: \$338,000 (Progressive) |
| Type | Basic |
| Regarding | Remix |
| Start Year | 2021 |
| Interest/Investment Rate | 2.0% |
| Estimated Contingency Allowance | \$1,000 |
| Tax Rate | 0.0% |
| Planning Horizon | 30 |
| Number Of Units | 70 |

| | |
|--------------------------------|-----------|
| Init Catchup Cost | \$0 |
| Operating Budget | |
| Starting Reserve Balance | \$161,706 |
| Reserve Contribution Threshold | \$500,000 |
| Contribution Below Threshold | \$338,000 |
| Contribution Above Threshold | \$338,000 |
| Reserve Contribution Increase | 0.00 % |
| Monthly Avg. Unit Contribution | \$402 |

| Year | Opening Balance | Reserve Contribution | Special Assessment | Reserve Income | Renewal Costs | Contingency Costs | Tax Liability | Closing Balance | Percent Funded |
|------|-----------------|----------------------|--------------------|----------------|---------------|-------------------|---------------|-----------------|----------------|
| 2021 | \$161,706 | \$338,000 | \$0 | \$3,234 | \$35,000 | \$1,000 | \$0 | \$466,940 | 32.67 % |
| 2022 | \$466,940 | \$338,000 | \$0 | \$9,339 | \$90,900 | \$1,000 | \$0 | \$722,379 | 44.64 % |
| 2023 | \$722,379 | \$338,000 | \$0 | \$14,448 | \$2,100 | \$1,000 | \$0 | \$1,071,727 | 56.19 % |
| 2024 | \$1,071,727 | \$338,000 | \$0 | \$21,435 | \$283,020 | \$1,000 | \$0 | \$1,147,141 | 59.77 % |
| 2025 | \$1,147,141 | \$338,000 | \$0 | \$22,943 | \$82,800 | \$1,000 | \$0 | \$1,424,284 | 66.27 % |
| 2026 | \$1,424,284 | \$338,000 | \$0 | \$28,486 | \$76,830 | \$1,000 | \$0 | \$1,712,940 | 71.55 % |
| 2027 | \$1,712,940 | \$338,000 | \$0 | \$34,259 | \$5,600 | \$1,000 | \$0 | \$2,078,598 | 76.33 % |
| 2028 | \$2,078,598 | \$338,000 | \$0 | \$41,572 | \$115,500 | \$1,000 | \$0 | \$2,341,671 | 79.37 % |
| 2029 | \$2,341,671 | \$338,000 | \$0 | \$46,833 | \$451,980 | \$1,000 | \$0 | \$2,273,524 | 79.80 % |
| 2030 | \$2,273,524 | \$338,000 | \$0 | \$45,470 | \$20,500 | \$1,000 | \$0 | \$2,635,495 | 82.46 % |
| 2031 | \$2,635,495 | \$338,000 | \$0 | \$52,710 | \$129,900 | \$1,000 | \$0 | \$2,895,305 | 84.04 % |
| 2032 | \$2,895,305 | \$338,000 | \$0 | \$57,906 | \$28,720 | \$1,000 | \$0 | \$3,261,491 | 85.76 % |
| 2033 | \$3,261,491 | \$338,000 | \$0 | \$65,230 | \$21,000 | \$1,000 | \$0 | \$3,642,720 | 87.10 % |
| 2034 | \$3,642,720 | \$338,000 | \$0 | \$72,854 | \$1,055,420 | \$1,000 | \$0 | \$2,997,155 | 85.17 % |
| 2035 | \$2,997,155 | \$338,000 | \$0 | \$59,943 | \$3,900 | \$1,000 | \$0 | \$3,390,198 | 87.03 % |
| 2036 | \$3,390,198 | \$338,000 | \$0 | \$67,804 | \$28,700 | \$1,000 | \$0 | \$3,766,302 | 88.43 % |
| 2037 | \$3,766,302 | \$338,000 | \$0 | \$75,326 | \$102,000 | \$1,000 | \$0 | \$4,076,628 | 89.38 % |
| 2038 | \$4,076,628 | \$338,000 | \$0 | \$81,533 | \$231,500 | \$1,000 | \$0 | \$4,263,661 | 89.89 % |
| 2039 | \$4,263,661 | \$338,000 | \$0 | \$85,273 | \$998,700 | \$1,000 | \$0 | \$3,687,234 | 89.08 % |
| 2040 | \$3,687,234 | \$338,000 | \$0 | \$73,745 | \$112,500 | \$1,000 | \$0 | \$3,985,478 | 90.39 % |
| 2041 | \$3,985,478 | \$338,000 | \$0 | \$79,710 | \$30,500 | \$1,000 | \$0 | \$4,371,688 | 91.57 % |
| 2042 | \$4,371,688 | \$338,000 | \$0 | \$87,434 | \$1,035,600 | \$1,000 | \$0 | \$3,760,521 | 91.14 % |
| 2043 | \$3,760,521 | \$338,000 | \$0 | \$75,210 | \$115,300 | \$1,000 | \$0 | \$4,057,432 | 92.95 % |
| 2044 | \$4,057,432 | \$338,000 | \$0 | \$81,149 | \$4,209,340 | \$1,000 | \$0 | \$266,240 | 61.48 % |
| 2045 | \$266,240 | \$338,000 | \$0 | \$5,325 | \$0 | \$1,000 | \$0 | \$608,565 | 109.84 % |
| 2046 | \$608,565 | \$338,000 | \$0 | \$12,171 | \$130,800 | \$1,000 | \$0 | \$826,936 | 151.73 % |
| 2047 | \$826,936 | \$338,000 | \$0 | \$16,539 | \$13,400 | \$1,000 | \$0 | \$1,167,075 | 183.21 % |
| 2048 | \$1,167,075 | \$338,000 | \$0 | \$23,341 | \$17,300 | \$1,000 | \$0 | \$1,510,116 | 207.71 % |
| 2049 | \$1,510,116 | \$338,000 | \$0 | \$30,202 | \$763,700 | \$1,000 | \$0 | \$1,113,619 | 1,796.15 % |
| 2050 | \$1,113,619 | \$338,000 | \$0 | \$22,272 | \$72,590 | \$1,000 | \$0 | \$1,400,301 | 100.00 % |
| | | \$10,140,000 | \$0 | | \$10,265,100 | | | | |



Appendix F

RDH Qualifications



Maintenance and Planning (MaP)

Our Maintenance and Planning (MaP) group works with your owner group to plan and develop strategies for the long- and short-term needs of your building—everything from roof maintenance to boiler replacement. As the acronym suggests, our services are designed so that we can provide you with a comprehensive roadMaP for the management of your assets.

RDH staff have broad practical experience assisting building owners with all aspects of planning for the long term stewardship of their building(s). Our reserve fund analysts, engineers, architects, and technologists have a wide variety of formal training—including building science, structural engineering, and mechanical engineering. We believe that by using a team approach, we can ensure an appropriate level of thoroughness and quality. We have prepared hundreds of Depreciation Reports and are recognized as industry leaders.

Depreciation Reports

A Depreciation Report is a long-range financial planning tool. It's used to identify funding requirements for costs associated with future repair, renewal, and replacement projects. The report establishes where you need to focus resources and is a good place to start developing your roadMaP.

The first step in preparing the report is to compile an inventory of all of your building's assets (roofs, boilers, carpets, etc.). Using the inventory as a foundation, we estimate the remaining life of each asset, forecast the replacement costs in future-year dollars, and display the financial analysis with graphs and cash flow tables.

Building Asset Management Software (BAMS)

All of this information is accessible through our propriety online BAM Software—we do the groundwork and provide the critical information so that you can leverage the Software to track and report on maintenance, repair, and renewal activities. Alternatively, we can follow up and manage the activities on your behalf.

The Software tool also empowers you to create your own funding scenarios so you can evaluate different funding levels and find a solution that works specifically for your building. Where a Depreciation Report identifies what items you need to spend money on and when you need to spend it, this tool helps you optimize the way you spend your money. Ultimately, we can help you track what work is completed versus what is outstanding so that you are better able to produce reports and make informed decisions.



Principals



Mark Will | B.A. Econ.
Principal, Vancouver Regional Manager

- B.A., Economics
- Has worked in project management since 1997
- Member of the Board of Directors, Condominium Home Owner's Association (CHOA)
- Member of Professional Association of Managing Agents (PAMA)



Jason Dunn | B.Arch.Sc., CCCA
Principal, Senior Project Manager

- B.Arch.Sc., Building Science Option
- Certified Construction Contract Administrator, CSC
- Has worked in building science consulting since 2004

Associates and Project Managers



Brandon Carreira | Dipl.T.
Project Manager

- MaP Service Area Leader
- Dipl.T., Architectural & Building Engineering Technology (Building Science Option)
- Has worked in maintenance and planning consulting since 2011
- Prepared 150+ Depreciation Reports and has been involved with 200+ MaP projects



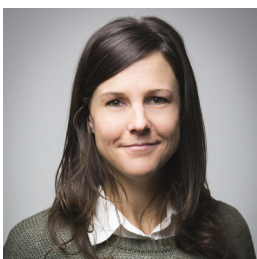
Jesse Listoen | Dipl.T.
Associate, Project Manager

- Dipl.T., Architectural & Building Engineering Technology (Building Science Option)
- 5+ years' experience in maintenance and planning consulting and has been involved in the preparation 70+ depreciation reports
- Has worked in maintenance and planning



David Taguchi | Eng.L., RRO
Associate, Building Science Specialist

- Eng.L., Engineers & Geoscientists of British Columbia
- RRO, Roofing Consultants Institute Inc.
- Member of Applied Science Technologists and Technicians of British Columbia
- Has 19 years of Building Science Experience



Heather Reid | P.Eng.
Associate, Building Science Engineer

- B.A.Sc., Civil Engineering
- Diploma, Advanced Civil Engineering Technology
- Diploma, Civil Engineering Technology, Structural Option
- Has worked in maintenance and planning consulting since 2017
- Registered Professional Engineer, Engineers and Geoscientists of BC



Michael Grummett | P.Eng.
Associate, Building Science Engineer

- B.Eng., Structural Engineering
- Has worked in maintenance and planning consulting since 2015
- Registered Professional Engineer, Engineers and Geoscientists of BC



Robyn Edgar | P.Eng.
Associate, Building Science Engineer

- Associate Certificate (hons), Project Management
- B.A.Sc.(with Distinction), Civil Engineering
- Has worked in maintenance and planning consulting since 2019
- Hold 10 years of Building Science experience
- Registered Professional Engineer, Engineers and Geoscientists of BC



Len Sakurgi | P.Eng.
Associate, Building Science Engineer

- B.A.Sc., Mechanical Engineering
- Has worked in maintenance and planning consulting since 2020
- Registered Professional Engineer, Engineers and Geoscientists of BC



Ryan McNamara | M.A.Sc., P.Eng.
Building Science Engineer

- M.A.Sc., Mechanical Engineering
- Has specialized in building energy performance and sustainable design since 2016
- Conducts building energy simulations and utility data analysis
- Registered Professional Engineer, Engineers and Geoscientists of BC



Talen Springer | EIT
Building Science Engineer (EIT)

- B.A.Sc., Civil Engineering
- Has worked in maintenance and planning consulting since 2016
- Engineer in Training, Engineers and Geoscientists of BC



Kasra Vahidi | B.A.Sc., EIT
Building Science Engineer (EIT)

- B.A.Sc., Civil Engineering, Minor in Commerce
- Has worked in maintenance and planning consulting since 2018
- Engineer in Training, Engineers and Geoscientists of BC



Josh Chambers | RSE, RRO
Project Manager

- B.Tech., Construction Management Program
- Red Seal Endorsement (RSE), Industry Training Authority
- Registered Roof Observer (RRO), Roofing Consultants Institute
- Has worked in maintenance and planning consulting since 2021
- Joined RDH as a Building Science Technologist in 2015

Technical Staff



Alex Seto | Dipl.T.
Building Science Technologist

- Dipl.T., Architectural & Building Engineering Technology (Building Science Option)
- Has worked in maintenance and planning consulting since 2012



Jackie Wong | Dipl.T.
Building Science Technologist

- Dipl.T., Architectural & Building Engineering Technology (Building Science Option)
- Has worked in maintenance and planning consulting since 2016



Preston Wu | Dipl.T.
Building Science Technologist

- Dipl.T., Architectural & Building Engineering Technology (Building Science Option)
- Has worked in maintenance and planning consulting since 2016



Cameron Skoglund | GradTech.
Building Science Technologist

- GradTech., ASTTBC
- Has worked in maintenance and planning consulting since 2017



Torrance Beamish | B.F.A., Dipl.T.
Building Science Technologist

- Dipl.T., Architectural & Building Engineering Technology (Building Science Option)
- Has worked in maintenance and planning consulting since 2017



Yan Marineau-Brachmann | B.A.Sc.

Building Science Engineer (EIT)

- B.A.Sc., Civil Engineering
- Has worked in maintenance and planning consulting since 2018



Joseph Hildebrandt | B.A.Sc., EIT

Building Science Engineer (EIT)

- B.A.Sc., Mechanical Engineering (Thermofluids Option)
- Has worked in maintenance and planning consulting since 2020



Joshua Villanueva

Building Science Technologist

- Diploma in Architectural and Building Technology
- Has worked in maintenance and planning consulting since 2021

Administrators and Client Support



Vanessa Jumawan

Maintenance and Planning Coordinator

- Has worked in administration within engineering/architecture since 2008
- Preparation of Depreciation Report estimates and proposals



Anna Qiu

Maintenance and Planning Project Assistant

- Certificate, Business Administration
- Has worked in administration within engineering/architecture firms since 2004

Software Support and Programmer



Matthew Branch | P.Eng.

Software Developer

- B.Sc., Civil Engineering
- Registered Professional Engineer, Engineers and Geoscientists of BC
- Has worked in engineering data analysis since 2000

Acknowledgements



Serge Desmarais | B.Arch. Architect AIBC, CP
Principal (In Memoriam), Senior Building Science Specialist

RDH gratefully acknowledges the contributions of Serge Desmarais as the building science technical lead for the MaP group.

- Registered Architect AIBC, Certified Professional
- 30+ years' experience in building design and construction capital renewal projects
- RDH 2004 - 2017

Appendix G

Insurance Certificate

Ref. No. 320008778690

CERTIFICATE OF INSURANCE

Aon Reed Stenhouse Inc.
401 West Georgia Street, Suite 1200
PO Box 3228 STN. TERMINAL
Vancouver BC V6B 3X8
tel 604-688-4442 fax 604-682-4026

Re: Evidence of Insurance:

To Whom It May Concern
Suite 400, 4333 Still Creek Drive
Burnaby, BC V5C 6S6

Insurance as described herein has been arranged on behalf of the Insured named herein under the following policy(ies) and as more fully described by the terms, conditions, exclusions and provisions contained in the said policy(ies) and any endorsements attached thereto.

Insured

RDH Building Science Inc.
Suite 400, 4333 Still Creek Drive
Burnaby, BC V5C 6S6

Coverage

| | | | |
|--|---|------------------------------|-------------|
| Commercial General Liability | Insurer | Zurich Insurance Company Ltd | |
| ----- | ----- | ----- | ----- |
| Policy # | 8850746 | | |
| ----- | ----- | ----- | ----- |
| Effective | 02-May-2021 | Expiry | 01-Jul-2022 |
| ----- | ----- | ----- | ----- |
| Limits of Liability | Bodily Injury & Property Damage, Each Occurrence \$1,000,000 Products and Completed Operations, Aggregate \$2,000,000 Non-Owned Automobile Liability \$1,000,000 Legal Liability for Damage to Hired Automobiles \$100,000 Policy may be subject to a general aggregate and other aggregates where applicable | | |
| ----- | ----- | | |
| Architects & Engineers Professional Liability | Insurer | Lloyd's Underwriters | |
| ----- | ----- | ----- | ----- |
| Policy # | PSDEF2100249 | | |
| ----- | ----- | ----- | ----- |
| Effective | 02-May-2021 | Expiry | 01-Jul-2022 |
| ----- | ----- | ----- | ----- |
| | Subject to aggregate where applicable | | |
| ----- | ----- | | |

Terms and / or Additional Coverage

Commercial General Liability includes:
General Aggregate: \$2,000,000

Professional Liability
Limit: \$1,000,000 Per Claim Limit / \$2,000,000 Aggregate Limit

THE POLICY CONTAINS A CLAUSE THAT MAY LIMIT THE AMOUNT PAYABLE
OR, IN THE CASE OF AUTOMOBILE INSURANCE,

THE POLICY CONTAINS A PARTIAL PAYMENT OF LOSS CLAUSE
THIS CERTIFICATE DOES NOT AMEND, EXTEND, OR ALTER THE COVERAGE AFFORDED BY THE POLICY



Ref. No. 320008778690

CERTIFICATE OF INSURANCE

THIS CERTIFICATE CONSTITUTES A STATEMENT OF THE FACTS AS OF THE DATE OF ISSUANCE AND ARE SO REPRESENTED AND WARRANTED ONLY TO THE INSURED. OTHER PERSONS RELYING ON THIS CERTIFICATE DO SO AT THEIR OWN RISK.

Dated : 04-May-2021

Aon Reed Stenhouse Inc

THE POLICY CONTAINS A CLAUSE THAT MAY LIMIT THE AMOUNT PAYABLE
OR, IN THE CASE OF AUTOMOBILE INSURANCE,

THE POLICY CONTAINS A PARTIAL PAYMENT OF LOSS CLAUSE
THIS CERTIFICATE DOES NOT AMEND, EXTEND, OR ALTER THE COVERAGE AFFORDED BY THE POLICY

Appendix H

Strategic Plan

Remix Strategic Plan

Accuracy of Budget Cost Estimates:

- Budget costs in this report are provided in both current year dollars (without inflation or escalation factors) and future year dollars (with inflation or escalation factors).
- All budget costs are preliminary estimates intended for planning purposes and not for accounting use.
- Actual costs will vary depending on several factors. The budget estimates assume economies of scale will be achieved by bundling work items together into larger projects. Small projects done individually may exceed the budget estimates.
- Each project should include appropriate cost line-items when developing an overall project budget.
- Labour and material costs are subject to the vagaries of the marketplace. At the time of tender, costs may vary depending on the time of the year and/or contractor availability.
- The budget estimates must be updated over time and confirmed by competitive tender before any contracts are awarded.
- Detailed repair specifications are required to be prepared in order to confirm scopes of work and costs.
- Soft costs, such as consulting services and contingency allowances are not included in the budget estimates. Depending on the sizes, scope and timing of individual projects, the magnitude of the soft costs will vary.
- Cost savings may be realized depending on the use of in-house labor or 3rd party-contractors.
- The estimates do not include allowances for site specific access requirements and environmental concerns, which should be addressed on a project-by-project basis.
- Consideration may sometimes need to be given to costs arising from the impact of projects on occupancy use and facility operations.

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | |
|----------------------------|---------------|--|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| STRUCTURAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOUNDATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Struct 01 | R01 | Provided maintenance and repairs are completed to adjacent assets, the concrete foundation is not likely to require renewal. | 75 Yrs | \$0 | 2089 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WALLS & COLUMNS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Struct 02 | J01 | Review concrete walls and columns for signs of distress, such as cracking, spalling, and delamination. | 3 Yrs | \$0 | 2023 | \$0 | | | • | | • | | • | | | • | | | • | | | • | | | • | | | • | | | • | | | • | | | • |
| Struct 02 | R02 | Provided maintenance and repairs are completed to adjacent assets, structural assets are not likely to require renewal | 75 Yrs | \$0 | 2089 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Struct 03 | R01 | Provided maintenance and repairs are completed to surrounding systems, structural assets are not likely to require renewal. | 75 Yrs | \$0 | 2089 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | | |
|--------------------------|---------------|---|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|---|
| ENCLOSURE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROOFS & DECKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Encl 01 | R01 | Complete localized roof, deck, and podium repairs per BC Roofing Roof Evaluation Report (2021), as required. | 10 Yrs | \$35,000 | 2021 | \$35,000 | • | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | |
| Encl 01 | R02 | Replace SBS membrane roof assembly and associated component such as drains and flashing. | 20 Yrs | \$271,200 | 2034 | \$350,000 | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | |
| Encl 02 | J01 | Review traffic surface for signs of distress. Replace damaged pavers as required. | 2 Yrs | \$0 | 2022 | \$0 | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Encl 02 | J02 | Locally remove pavers to visually review the surface of the underlying membrane, paying close attention to all penetration locations for signs of distress, such as ridges, cracks, and delamination. Review to include sealants and flashings. | 2 Yrs | \$0 | 2022 | \$0 | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 |
|------------------------|---------------|---|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ENCLOSURE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Encl 08 | R02 | Concrete wall is durable and not deemed a renewable asset. Maintenance of the concrete substrate is required for the asset to achieve longevity. | 75 Yrs | \$0 | 2089 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Encl 09 | J01 | Clean exterior surfaces of thin brick veneer cladding to remove vegetation growth and other atmospheric staining. | 3 Yrs | \$0 | 2022 | \$0 | | • | | | • | | | • | | | • | | | • | | | • | | | • | | | • | | | • | | | • | |
| Encl 09 | J02 | Repoint mortar joints in thin brick masonry veneer wall, as required. | 5 Yrs | \$2,840 | 2024 | \$3,000 | | | | • | | | | • | | | | | • | | | | | • | | | | | • | | | | | | • | |
| Encl 09 | R01 | Replace thin brick veneer cladding along with associated flashing and sealants as required. | 40 Yrs | \$340,800 | 2054 | \$660,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Encl 10 | J01 | Clean exterior fiber cement board surfaces to remove atmospheric dirt, vegetative growth, and other stains. | 3 Yrs | \$0 | 2022 | \$0 | | • | | | • | | | • | | | • | | | • | | | • | | | • | | | • | | | • | | | • | |
| Encl 10 | J02 | Review fiber cement cladding for signs of distress, such as delamination and discoloration. | 2 Yrs | \$0 | 2022 | \$0 | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Encl 10 | R01 | Repaint fibre cement cladding. | 10 Yrs | \$142,000 | 2029 | \$170,000 | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | • |
| Encl 10 | R02 | Replace fibre cement cladding along with associated flashing and sealants. Consideration should be given to replacement of vent hoods and other accessories that penetrated the cladding at the time of cladding replacement. | 40 Yrs | \$1,065,000 | 2054 | \$2,000,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Encl 11 | J03 | Review wood siding for signs of distress, such as delamination and discoloration. | 2 Yrs | \$0 | 2022 | \$0 | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Encl 11 | R01 | Restain wood siding and associated wood trim. | 3 Yrs | \$36,600 | 2022 | \$37,000 | | • | | | • | | • | | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Encl 11 | R02 | Replace wood siding along with associated flashing and sealants. Consideration should be given to replacement of vent hoods and other accessories that penetrated the cladding at the time of cladding replacement. | 35 Yrs | \$158,600 | 2049 | \$280,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • |
| Encl 12 | R01 | Recoat roof fascia boards. | 6 Yrs | \$7,500 | 2024 | \$8,000 | | | | • | | | | | • | | | | | | • | | | | | | • | | | | | | | | • | |
| Encl 12 | R02 | Restain wood trim on balcony columns and underside of Level 2 canopies. | 3 Yrs | \$30,000 | 2022 | \$31,000 | | • | | | • | | • | | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Encl 12 | R03 | Replace wood trim on balcony columns and underside of Level 2 canopies, as required. | 30 Yrs | \$50,000 | 2044 | \$79,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • |
| GLAZING SYSTEMS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Encl 13 | J02 | Replace or repair gasket and weatherstripping, as required. | 2 Yrs | \$0 | 2026 | \$0 | | | | | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Encl 13 | R01 | Replace insulating glazing units (IGUs) with condensation or misting between panes of glass. Refer to manufacturer's warranty if applicable. Cost included in vinyl frame windows. | 2 Yrs | \$0 | 2026 | \$0 | | | | | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Encl 13 | R02 | Replace storefront window system. | 40 Yrs | \$178,500 | 2054 | \$340,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Encl 14 | J03 | Replace any failed insulating glazing units (IGUs) with condensation or misting between the panes of glass. Refer to manufacturer's warranty if applicable. Cost included in vinyl frame windows. | 2 Yrs | \$0 | 2026 | \$0 | | | | | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Encl 14 | R01 | Replace unit skylights and associated components. | 25 Yrs | \$140,000 | 2039 | \$200,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • |
| Encl 15 | J02 | Replace or repair gasket and weatherstripping, as required. | 2 Yrs | \$0 | 2026 | \$0 | | | | | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Encl 15 | J05 | Replace insulating glazing units (IGUs) with condensation or misting between panes of glass. Refer to manufacturer's warranty if applicable. | 2 Yrs | \$6,100 | 2026 | \$6,700 | | | | | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Encl 15 | R01 | Replace vinyl windows and associated components. | 30 Yrs | \$396,500 | 2044 | \$630,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • |

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | | |
|-----------------------|---------------|--|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|
| ENCLOSURE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DOORS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Encl 16 | J01 | Replace or repair gasket and weatherstripping, as required. | 2 Yrs | \$0 | 2026 | \$0 | | | | | • | | • | | • | | • | | • | | • | | • | | | | | | | | | | | • | | | | |
| Encl 16 | J03 | Replace insulating glazing units (IGUs) with condensation or misting between panes of glass. Refer to manufacturer's warranty if applicable. Cost included in vinyl frame windows. | 2 Yrs | \$0 | 2026 | \$0 | | | | | • | | • | | • | | • | | • | | • | | • | | | | | | | | | | | | • | | | |
| Encl 16 | R01 | Repaint steel door finish. | 10 Yrs | \$1,350 | 2026 | \$1,500 | | | | | • | | | | | | | | | | • | | | | | | | | | | | | | | • | | | |
| Encl 16 | R04 | Replace steel swing doors and frames. | 25 Yrs | \$14,400 | 2039 | \$21,000 | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | |
| Encl 17 | J01 | Replace or repair gasket and weatherstripping, as required. | 2 Yrs | \$0 | 2026 | \$0 | | | | | • | | • | | • | | • | | • | | • | | • | | | | | | | | | | | | | • | | |
| Encl 17 | J02 | Replace insulating glazing units (IGUs) with condensation or misting between panes of glass. Refer to manufacturer's warranty if applicable. Cost included in vinyl frame windows. | 2 Yrs | \$0 | 2026 | \$0 | | | | | • | | • | | • | | • | | • | | • | | • | | | | | | | | | | | | | • | | |
| Encl 17 | R01 | Replace vinyl frame swing doors. | 25 Yrs | \$19,500 | 2039 | \$28,000 | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | |
| Encl 18 | J01 | Replace or repair gasket and weatherstripping, as required. | 2 Yrs | \$0 | 2026 | \$0 | | | | | • | | • | | • | | • | | • | | • | | • | | | | | | | | | | | | | • | | |
| Encl 18 | J02 | Replace insulating glazing units (IGUs) with condensation or misting between panes of glass. Refer to manufacturer's warranty if applicable. Cost included in vinyl frame windows. | 2 Yrs | \$0 | 2026 | \$0 | | | | | • | | • | | • | | • | | • | | • | | • | | | | | | | | | | | | | | • | |
| Encl 18 | R01 | Replace aluminum frame swing doors. | 25 Yrs | \$33,600 | 2039 | \$48,000 | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | |
| Encl 19 | J01 | Replace insulating glazing units (IGUs) with condensation or misting between panes of glass. Refer to manufacturer's warranty if applicable. Cost included in vinyl frame windows. | 2 Yrs | \$0 | 2026 | \$0 | | | | | • | | • | | • | | • | | • | | • | | • | | | | | | | | | | | | • | | • | |
| Encl 19 | R02 | Replace aluminum frame lobby doors. | 20 Yrs | \$4,000 | 2034 | \$5,200 | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | |
| Encl 20 | J03 | Replace insulating glazing units (IGUs) with condensation or misting between panes of glass. Refer to manufacturer's warranty if applicable. Cost included in vinyl frame windows. | 2 Yrs | \$0 | 2026 | \$0 | | | | | • | | • | | • | | • | | • | | • | | • | | | | | | | | | | | | | • | | • |
| Encl 20 | R01 | Replace sliding glass doors and associated components. | 20 Yrs | \$40,000 | 2034 | \$52,000 | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | |
| Encl 21 | J03 | Check weatherstripping and gasket seals prior to the onset of the winter season. Repair as required. | 2 Yrs | \$0 | 2026 | \$0 | | | | | • | | • | | • | | • | | • | | • | | • | | • | | | | | | | | | | | | | |
| Encl 21 | J04 | Replace insulating glazing units (IGUs) with condensation or misting between panes of glass. Refer to manufacturer's warranty if applicable. Cost included in vinyl frame windows. | 2 Yrs | \$0 | 2026 | \$0 | | | | | • | | • | | • | | • | | • | | • | | • | | • | | | | | | | | | | | | | |
| Encl 21 | R01 | Replace sliding glass doors and associated components. | 30 Yrs | \$103,500 | 2044 | \$160,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BALCONIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Encl 22 | J01 | Repair locally damaged and delaminated canopy membrane prior to re-application of top coat. Refer to membrane warranty if applicable. | 5 Yrs | \$2,600 | 2024 | \$2,800 | | | | • | | | | | • | | | | | • | | | | | | | | | | | | | | | | • | | • |
| Encl 22 | R01 | Prepare and re-apply canopy membrane top coat. | 10 Yrs | \$20,800 | 2024 | \$22,000 | | | | • | | | | | | | | | | • | | | | | | | | | | | | | | | | | | • |
| Encl 22 | R02 | Replace exposed urethane canopy membrane and associated components. | 25 Yrs | \$41,600 | 2039 | \$59,000 | | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | |
| Encl 23 | R01 | Replace vinyl balcony membrane and associated components. | 15 Yrs | \$73,600 | 2029 | \$86,000 | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | |
| PARKING GARAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Encl 24 | J01 | Locally touch up paint at overhead gate, as required. | 2 Yrs | \$1,500 | 2022 | \$1,500 | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | |

| ELECTRICAL | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-----|---|--------|----------|------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DISTRIBUTION | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elec 01 | J01 | Check for any exposed wiring and visually inspect wiring, where accessible, for signs of distress. Repair as required. | 2 Yrs | \$0 | 2022 | \$0 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 01 | J02 | Check raceways and cables for proper mechanical support, check insulation for abrasion or cracks at support points, examine raceway joints for clean and tight connections. Check busducts connections for proper tightness and evidence of overheating, corrosion, arcing or other deterioration. Clean and torque dirty and loose connections. | 2 Yrs | \$0 | 2022 | \$0 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 01 | R01 | Clean and maintain all electrical distribution equipment (reference subsequent maintenance tasks). Vacuum to remove accumulated dust. Check oil levels of oil filled equipment. | 5 Yrs | \$2,000 | 2024 | \$2,100 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 01 | R02 | Conduct infrared thermography and ultrasonic scanning tests on all switchgear, distribution panels, cable and bus connections, and other critical equipment. Results may diagnose hidden hazards; contractor should provide certificate for insurance purposes. To be coordinated prior to planned maintenance to identify areas that require immediate attention. Tests should be conducted on energized equipment during peak demand periods if possible. | 5 Yrs | \$3,000 | 2024 | \$3,200 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 01 | R03 | Cyclical replacement of components of the electrical distribution equipment, as required. | 40 Yrs | \$30,000 | 2054 | \$58,000 | | | | | | | | | | | | | | | | | | | |
| LIGHT FIXTURES | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elec 02 | J01 | Perform survey of actual lighting use and lighting levels to determine lighting needs. Consider updating fixtures or lighting controls to optimize light levels and energy costs. | 3 Yrs | \$0 | 2023 | \$0 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 02 | R02 | Cyclical replacement of lighting controls (timers, motion sensors, etc.) as required. | 6 Yrs | \$0 | 2026 | \$0 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 02 | R05 | Replace exterior light fixtures, as required, for aesthetic purposes, to match ballast replacement cycles, or technological obsolescence. | 20 Yrs | \$8,600 | 2034 | \$11,000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 03 | J01 | Perform survey of actual lighting use and lighting levels to determine lighting needs. Consider updating fixtures, lighting controls or interior finishes (e.g. painting) to optimize light levels and energy costs. | 3 Yrs | \$0 | 2023 | \$0 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 03 | R02 | Cyclical replacement of lighting controls (timers, motion sensors, etc.) as required. | 6 Yrs | \$0 | 2026 | \$0 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 03 | R05 | Replace interior light fixtures, as required, for aesthetic purposes, to match ballast replacement cycles, or technological obsolescence. | 20 Yrs | \$35,100 | 2034 | \$45,000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| SECURITY | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elec 04 | R01 | Replace enterphone panels, excluding field wiring. | 25 Yrs | \$18,000 | 2039 | \$26,000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 05 | R01 | Replace media in recording device to maintain continuous records from proximity access control devices. Retain records in secure archive for period determined by policy. | 6 Yrs | \$500 | 2026 | \$550 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 05 | R02 | Install or modernize components of the proximity access control system, excluding field wiring, as required by technological obsolescence. | 15 Yrs | \$17,500 | 2026 | \$19,000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Elec 06 | R01 | Service the multiplex unit, update software, and install additional cameras, as required. | 5 Yrs | \$5,000 | 2022 | \$5,100 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | | | | | | |
|---|---------------|---|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|---|--|---|--|---|
| MECHANICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mech 26 | R01 | Replace VFD circulating pumps for hydronic heating loop. | 15 Yrs | \$30,000 | 2029 | \$35,000 | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mech 27 | R01 | Replacement of components of filter assembly. | 8 Yrs | \$1,000 | 2026 | \$1,100 | | | | | | • | | | | | | | | • | | | | | | | • | | | | | | | | | | | | | | | |
| Mech 28 | R01 | Cyclical replacement of components of water treatment equipment. | 8 Yrs | \$2,000 | 2022 | \$2,000 | • | | | | | | | | • | | | | | | | | • | | | | | | | | | | | | | | | | | | | |
| Mech 29 | R01 | Cyclic replacement of air separator, as required. | 20 Yrs | \$2,000 | 2034 | \$2,600 | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | |
| Mech 30 | R01 | Cyclic replacement of diaphragm heating expansion tanks, as required. | 20 Yrs | \$3,000 | 2034 | \$3,900 | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | |
| Mech 31 | R01 | Replacement of condensing unit for amenity room fan coil unit. | 15 Yrs | \$4,000 | 2029 | \$4,700 | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mech 32 | R01 | Replacement of amenity room fan coil unit. | 15 Yrs | \$5,500 | 2029 | \$6,400 | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mech 33 | J01 | Check that circuit breakers for electric baseboard heaters are properly labeled for maintenance and servicing. | 3 Yrs | \$0 | 2023 | \$0 | | | • | | | • | | | • | | | | • | | | | • | | | • | | | | | | | | | | | | | | | | |
| Mech 33 | J02 | Inspect baseboard heaters for signs of distress, such as detachment from the wall substrate, impact damage, loose connections, and potential hazards. | 2 Yrs | \$0 | 2022 | \$0 | • | | | • | | • | | • | | • | | | • | | | • | | • | | • | | • | | | | | | | | | | | | | | |
| Mech 33 | R01 | Cyclical replacement of electric baseboard heaters, as required. | 40 Yrs | \$2,250 | 2054 | \$4,300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mech 34 | R01 | Cyclic replacement of cadet heaters, as required. | 20 Yrs | \$1,200 | 2034 | \$1,600 | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | |
| Mech 35 | R01 | Replace electric fireplace. | 30 Yrs | \$1,000 | 2044 | \$1,600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VENTILATION AND AIR-CONDITIONING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mech 36 | J01 | Motor mount - Inspect for damage, cracks, or corrosion. | 2 Yrs | \$0 | 2022 | \$0 | • | | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |
| Mech 36 | J02 | Conduct measurements and assessment of indoor air quality (IAQ) to ensure that desirable levels are being attained. | 5 Yrs | \$0 | 2024 | \$0 | | | | • | | | | | • | | | | | • | | | | | • | | | | | | | | | | | | | | | | | |
| Mech 36 | R01 | Cyclical replacement of pulleys and motors and vibration isolation, as required. | 8 Yrs | \$0 | 2022 | \$0 | • | | | | | | | | • | | | | | | | | • | | | | | | | | | | | | | | | | | | | |
| Mech 36 | R02 | Cyclical rebuild or replacement of make-up air units. | 15 Yrs | \$40,000 | 2039 | \$57,000 | | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | |
| Mech 37 | R01 | Cyclical replacement of motors, fan blades and bearings on supply and exhaust fans, as required. | 3 Yrs | \$0 | 2023 | \$0 | | | • | | | • | | • | | | | | • | | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | |
| Mech 37 | R02 | Rebuild of fans, as required. | 20 Yrs | \$4,000 | 2034 | \$5,200 | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | |
| Mech 38 | R01 | Replacement of electric duct heater. | 17 Yrs | \$1,000 | 2031 | \$1,200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mech 39 | R01 | Cyclical replacement of failed or damaged general purpose fans, as required. | 12 Yrs | \$2,500 | 2026 | \$2,800 | | | | | | • | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | |
| OTHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mech 40 | R01 | Replace motor and drive unit. | 7 Yrs | \$5,000 | 2022 | \$5,100 | • | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ELEVATOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HYDRAULIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elev 01 | J01 | Check and test overload device. | 2 Yrs | \$0 | 2022 | \$0 | • | | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • |

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | |
|----------------------|---------------|---|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| ELEVATOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elev 01 | J02 | Conduct full load performance test. | 2 Yrs | \$0 | 2022 | \$0 | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | |
| Elev 01 | R01 | Replace elevator controls, tank/pump unit and control valve. Note: Fire alarm upgrades may be required if this asset is implemented. The budget for fire alarm upgrade is not included in the estimate. | 25 Yrs | \$60,000 | 2038 | \$84,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAR INTERIORS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elev 02 | R01 | Replace elevator operating and signal fixtures, replace door operator, upgrade cab interior (to be completed in conjunction with asset 1). | 25 Yrs | \$55,000 | 2038 | \$77,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | | |
|--------------------|---------------|---|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| FIRE SAFETY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONTROLS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 01 | J01 | Replace battery packs for fire alarm control panels. | 5 Yrs | \$0 | 2024 | \$0 | | | | • | | | | | • | | | | | • | | | | | | | | | | | | | | | | | | |
| Fire 01 | R02 | Replace fire alarm annunciator panels and control panel, excluding field wiring and field devices. | 30 Yrs | \$20,000 | 2034 | \$26,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETECTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 02 | R01 | Cyclical replacement of speakers, heat detectors, smoke detectors and related modules, excluding field wiring. | 10 Yrs | \$14,400 | 2024 | \$15,000 | | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUPPRESSION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 03 | J01 | Conduct flow test and pipe line condition (flushing) test to NFPA25. | 5 Yrs | \$500 | 2024 | \$530 | | | | • | | | | | • | | | | | • | | | | | | | | | | | | | | | | | | |
| Fire 03 | J02 | Sprinkler Heads - Test extra high temperature on sprinkler heads. | 5 Yrs | \$500 | 2024 | \$530 | | | | • | | | | | • | | | | | • | | | | | | | | | | | | | | | | | | |
| Fire 03 | R01 | Phased replacement of sprinkler zone control valves, as required. | 20 Yrs | \$2,500 | 2034 | \$3,200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 03 | R02 | Renew compromised portions of piping, gaskets, connections, valves, devices and trim to maintain required function. | 5 Yrs | \$6,700 | 2034 | \$8,700 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 03 | R03 | Replace all heads, or submit representative sample of heads for testing by a recognized testing agency at the 50th anniversary, to the satisfaction of the authority having jurisdiction, in accordance with NFPA 25. | 10 Yrs | \$20,100 | 2064 | \$47,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 03 | R04 | Replace entire system including risers, branch piping, valves, heads, swaybracing, and all related trim, back to Sprinkler Room. | 100 Yrs | \$67,000 | 2114 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 04 | R01 | Replace all heads, or submit a representative sample of heads for testing by a recognized testing agency, to the satisfaction of the authority having jurisdiction, in accordance with NFPA 25. | 10 Yrs | \$1,500 | 2034 | \$1,900 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 04 | R02 | Replace all heads, or submit a representative sample of heads for testing by a recognized testing agency, to the satisfaction of the authority having jurisdiction, in accordance with NFPA 25. | 30 Yrs | \$9,000 | 2044 | \$14,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | | |
|--------------------------|---------------|---|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| FIRE SAFETY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 05 | J01 | Sprinkler Piping - Conduct flow test and pipe line condition (flushing) test to NFPA25. | 5 Yrs | \$500 | 2024 | \$530 | | | | • | | | | | • | | | | | • | | | | | | | | | | | | | | | | | | |
| Fire 05 | J02 | Sprinkler Heads - Test extra high temperature on sprinkler heads. | 5 Yrs | \$500 | 2024 | \$530 | | | • | | | | | | • | | | | | • | | | | | | | | | | | | | | | | | | |
| Fire 05 | R01 | Replace all heads, or submit representative sample of heads for testing by recognized testing agency at the 50th anniversary, to the satisfaction of the authority having jurisdiction, in accordance with NFPA 25. | 10 Yrs | \$11,100 | 2064 | \$26,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 05 | R02 | Replace damaged sprinkler heads, hangers and leaking gaskets, cages, sway-braces, drains, etc. as required. | 5 Yrs | \$185 | 2024 | \$200 | | | • | | | | | | • | | | | | • | | | | | | | | | | | | | | | | | | |
| Fire 05 | R03 | Replace entire system including risers, branch piping, valves, heads, swaybracing, and all related trim, back to Sprinkler Room. | 100 Yrs | \$37,000 | 2114 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 06 | R01 | Phased replacement of sprinkler zone control valves, as required. | 20 Yrs | \$2,500 | 2034 | \$3,200 | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | |
| Fire 06 | R02 | Replace gaskets in dry sprinkler valves. | 20 Yrs | \$600 | 2034 | \$780 | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | |
| Fire 06 | R03 | Rebuild dry sprinkler valves. | 20 Yrs | \$4,000 | 2034 | \$5,200 | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | |
| Fire 06 | R04 | Replace sprinkler valves, as required. | 40 Yrs | \$8,000 | 2054 | \$15,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 07 | R01 | Replace fire sprinkler compressor. | 14 Yrs | \$2,000 | 2028 | \$2,300 | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 08 | J01 | Conduct hydrotest on fire extinguishers. | 12 Yrs | \$2,000 | 2032 | \$2,500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 08 | R01 | Cyclical replacement of fire extinguishers. | 12 Yrs | \$4,000 | 2026 | \$4,400 | | | | | | • | | | | | | | | | | | | | • | | | | | | | | | | | | | |
| EGRESS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire 09 | R01 | Cyclical replacement of batteries and lamps in DC battery packs. | 5 Yrs | \$0 | 2024 | \$0 | | | • | | | | | | • | | | | | • | | | | | | | | | | | | | | | | | | |
| Fire 09 | R02 | Cyclical replacement of LED exit signs. | 15 Yrs | \$4,500 | 2034 | \$5,800 | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | |
| INTERIOR FINISHES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FLOORS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish 01 | J01 | Recolour or replace tile grout as required. | 12 Yrs | \$800 | 2026 | \$880 | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish 01 | R01 | Renew porcelain tile floor. | 40 Yrs | \$17,600 | 2054 | \$34,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish 02 | R01 | Renew carpet tiles. | 10 Yrs | \$40,810 | 2024 | \$43,000 | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish 03 | R01 | Replace wood flooring, as required. | 20 Yrs | \$7,800 | 2034 | \$10,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish 04 | R01 | Replace gym flooring. | 20 Yrs | \$5,000 | 2034 | \$6,500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WALLS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish 05 | R01 | Replace mirrored wall, as required. | 25 Yrs | \$7,500 | 2039 | \$11,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish 06 | R01 | Repaint interior wall in high traffic area, as required. | 10 Yrs | \$3,875 | 2034 | \$0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | | | | | |
|-------------------------------|---------------|---|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|
| INTERIOR FINISHES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish 06 | R02 | Repaint wall surface including preparation of substrate. | 10 Yrs | \$23,250 | 2024 | \$25,000 | | | | • | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | |
| Finish 07 | R01 | Replace wood paneling. | 25 Yrs | \$28,000 | 2039 | \$40,000 | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | |
| ARCHITECTURAL WOODWORK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish 08 | R01 | Replace damaged components of carpentry and millwork, as required. | 30 Yrs | \$3,000 | 2044 | \$4,700 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DOORS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish 09 | J01 | Lubricate and adjust doors and moving parts. Tighten mechanical parts and screws. Adjust door swing arms and hardware as required. Replace broken hardware. | 3 Yrs | \$0 | 2023 | \$0 | | | • | | • | | | | • | | | • | | | • | | | • | | | • | | | | | | | | | | | | | | |
| Finish 09 | J02 | On wood doors, apply a thin coat of sanding sealer to promote uniform appearance and to avoid sharp contrasts in color or a blotchy appearance. | 5 Yrs | \$0 | 2024 | \$0 | | | | • | | | | | • | | | | | • | | | | | • | | | | | | | | | | | | | | | | |
| Finish 09 | J03 | Repaint door and frame in high-traffic locations as required. | 8 Yrs | \$0 | 2024 | \$0 | | | | • | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | |
| Finish 09 | J04 | Rekey master door cylinders and issue new master keys to facility staff. | 10 Yrs | \$0 | 2024 | \$0 | | | | • | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | |
| Finish 09 | R01 | Replace interior swing door as required. | 30 Yrs | \$7,500 | 2044 | \$12,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | | | | | |
|--------------------|---------------|---|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|
| AMENITIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amen 01 | R01 | Replace components of fitness equipment, as required. | 10 Yrs | \$3,000 | 2024 | \$3,200 | | | | • | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | |
| Amen 02 | R01 | Replace components of electronic equipment. | 6 Yrs | \$3,000 | 2025 | \$3,200 | | | | | • | | | | | | • | | | | | • | | | | | | | | | | | | | | | | | | | |
| FURNISHINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amen 03 | J01 | Lubricate locks and hinges. | 2 Yrs | \$0 | 2022 | \$0 | | • | | • | | • | | | • | | | | | • | | • | | | • | | | • | | | | | | | | | | | | | |
| Amen 03 | J02 | Rekey cylinder on master lock. | 5 Yrs | \$0 | 2024 | \$0 | | | | • | | | | | • | | | | | • | | | | | • | | | | | | | | | | | | | | | | |
| Amen 03 | R01 | Replace central mail boxes as required. | 30 Yrs | \$5,000 | 2044 | \$7,900 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amen 04 | R01 | Replace damaged and outdated signage, as required. | 25 Yrs | \$3,000 | 2039 | \$4,300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amen 05 | R01 | Replace metal storage lockers, as required. | 25 Yrs | \$6,800 | 2039 | \$9,700 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amen 06 | R01 | Replace lobby furniture and associated component. | 15 Yrs | \$5,000 | 2029 | \$5,900 | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Asset Ref ID | Maint. Ref ID | Maintenance Description | Frequency | Current Cost | Next Event | Future Cost | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 |
|--------------|---------------|-------------------------|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|--------------|---------------|-------------------------|-----------|--------------|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

