

#### KING COUNTY FIRE PROTECTION DISTRICT NO.16

7220 NE 181st Street KENMORE, WA 98028

BUSINESS: 425-354-1780 FAX: 425-354-1781

MINUTES November 16, 2021

# REGULAR MEETING BOARD OF COMMISSIONERS at Northshore Fire Department's Headquarters Station 51

Virtual Meeting via Zoom

#### I. OPEN REGULAR NORTHSHORE MEETING

1.1 Roll Call

Chair Rick Webster called the meeting to order at 5:00 PM.

Persons in attendance were Commissioners Eric Adman, Josh Pratt, Milton Curtis, Rick Webster, and Dave Maehren. Also present was Chief McDonald, Advisory members Lisa Wollum, Tyler Byers, Nate Herzog, Legal Counsel Matt Paxton, Board Secretary Amy Oakley, and 20 members of the public.

#### II. PUBLIC COMMENT

2.1 No public comments.

#### III. APPROVAL OF THE AGENDA

- 3.1 Commissioner Pratt moved to add a discussion of the Deputy Chief position.

  Commissioner Maehren seconded. The Board discussed. Commissioner Pratt accepted a friendly amendment to include this discussion under the current Item 4.6 NSFD Operations Discussion. The motion passed unanimously.
- 3.2 Commissioner Adman moved to add Item 4.9 discussion of the North King County Training Consortium. Commissioner Curtis seconded. The Board discussed. The motion passed unanimously.
- 3.3 Commissioner Pratt moved to adopt the agenda as amended. Commissioner Curtis seconded. The motion passed unanimously.

#### IV. BOARD DISCUSSION AND POSSIBLE ACTION ITEMS

- 4.1 Conversation with IAFF, Local 2459
  - President, Jeremiah Ingersoll, addressed the Board with comments related to the 2022 collective bargaining process, the contract for services evaluation process, the North King County Training Consortium, and the Deputy Chief role.
- 4.2 RCL Reserve Funding Study
  - o Chief McDonald provided overview of the RCL reserve study.
  - O Chief McDonald and the Board will discuss the details of the study at the next meeting.

#### 4.3 Revisit Resolution 20-10

The Board will review this resolution in January 2022 and make any adjustments based on the RCL Reserve Study.

#### 4.4 Fire Marshal ILA Agreements

- o Chief McDonald updated the Board on the status of contracting for Fire Marshal services.
- This item will be discussed further at the next meeting.

#### 4.5 Contract for Services Update

- Consultant, Tom Broetje, presented his analysis of the Eastside Fire & Rescue and Shoreline Contract for Services proposals.
- o The Board will discuss the analysis further at the next meeting.

#### 4.6 NSFD Operations Discussion

- o Chief McDonald will be resigning from NSFD effective December 31, 2021.
- o The Board discussed the timing for selecting a contract for services.
- o The Board discussed temporarily promoting from within for the Deputy Chief role.

Commissioner Pratt moved to direct Chief McDonald to fill the position of the Deputy Chief from within. Commissioner Curtis seconded. The Board discussed. The motion failed 1-3. Commissioner Pratt voted in favor. Commissioners Webster, Maehren, and Curtis opposed. Commissioner Adman abstained from voting.

Commissioner Maehren moved to have a special meeting next week to review proposals from Chief McDonald on options to move forward upon his departure. Commissioner Webster seconded. Commissioner Maehren accepted a friendly amendment to have the meeting on Tuesday, November 23rd at 4pm. The motion passed unanimously.

- The Board discussed timing and options for filling an interim Fire Marshal position.
   Chief McDonald will provide an update at the next meeting.
- o The Board discussed administrative responsibilities that will be outside of the contract for services. This item will remain on the agenda for the next meeting.

#### 4.7 Water Rescue Program Discussion

- Chief McDonald updated the Board on the status of the purchase of a rescue watercraft.
- 4.8 Discussion of Fire Chief Performance Review
  - o The Board will not conduct a performance review for Chief McDonald.
- 4.9 North King County Training Consortium (NKCTC)
  - Chief McDonald updated the Board on the current operation and expansion of the NKCTC.

#### V. EXECUTIVE SESSION

The Board moved into Executive Session at 6:55PM until 7:25PM to discuss the performance of an employee pursuant to RCW 42.30.110(1)(g), to discuss with legal counsel representing the agency matters relating to litigation or potential litigation pursuant to RCW 42.30.110(1)(i), and

to discuss collective bargaining, the planning or adopting the strategy or position to be taken during the course of collective bargaining, or reviewing a proposal made in negotiations pursuant to RCW 42.30.140(4). The Board extended the session by 15 minutes. The Board moved back into open session at 7:40PM.

#### VI. BOARD RESOLUTIONS

6.1 None

#### VII. CONSENT AGENDA

- 7.1 Vouchers
  - o The General Fund Vouchers totaled \$68,511.74
  - o The Reserve Fund Vouchers totaled \$42,894.60
- 7.2 Meeting Minutes: 11/2/2021 and 11/9/2021
- 7.3 Commissioner Compensation

Commissioner Pratt moved to accept the consent agenda as presented. Commissioner Curtis seconded. The Board discussed. Commissioner Pratt accepted a friendly amendment to remove the Commissioner Compensation from the consent agenda. The motion passed unanimously.

o The Board discussed Commissioner compensation timesheets. Commissioner Adman will resubmit his timesheet for approval at the next meeting.

Commissioner Maehren moved to approve Commissioner Curtis compensation request as submitted. Commissioner Webster seconded. The motion passed 4-0. Commissioner Curtis abstained from voting.

#### VIII. REPORTS

- 8.1 Fire Chief Report
  - Chief McDonald updated the Board regarding the 3-month extension of NORCOM IT contract, NEMCO hiring status, firefighter hiring process, and notification from Woodinville Fire & Rescue leaving the mobile integrated health (MIH) program.
- 8.2 Commissioner Reports
  - o Commissioner Adman recognized the passing of former Commissioner Ron Gehrke.
  - Commissioner Maehren and Commissioner Adman will contact the family and coordinate with NUD.
- 8.3 Legal Counsel Reports
  - Legal Counsel Paxton updated the Board on federal vaccine mandates for Center for Medicare/Medicaid and OSHA requirements.

#### IX. UPCOMING BOARD AGENDAS

- 9.1 Setting of Future Meeting Agenda(s)
  - o For the November 23<sup>rd</sup> Special Meeting agenda items will include update on the process for the selection of an Interim Deputy Chief appointment, Commissioner Compensation, swearing in of Commissioner Tyler Byers, Fire Marshal update, Contract for Services update, discussion of the decision process for Contract for Services.

#### **ADJOURNMENT**

The meeting adjourned at 8:02PM

#### **NEXT MEETING DATE**

The next Board of Commissioners meeting is scheduled for November 23, 2021, at 4:00PM.

Attachments: Agenda, RCL Reserve Study, Resolution 20-10, Contract for Service Proposal Analysis, Vouchers, Commissioner Compensation, Meeting Minutes 11/2 and 11/9, and Chief's Report.

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Electronically Signed- Eric Adman
ERIC ADMAN, Member
,
Electronically Signed- Josh Pratt
JOSH PRATT, Member
,
Electronically Signed- Tyler Byers
TYLER BYERS, Member
,
Electronically Signed- Rick Webster
RICK WEBSTER, Member
,
Electronically Signed- David C. Maehren

**DAVID MAEHREN**, Member

#### ATTEST

Amy Oakley

Amy Oakley, Secretary

King County Fire Protection District No. 16

Adopted at a Regular Meeting of the Board of Commissioners on December 7th, 2021

 From:
 Eric Adman

 To:
 Board Secretary

Subject: Re: E-Signatures Required - 12/7/21 Meeting

Date: Wednesday, December 8, 2021 4:05:17 AM

Attachments: AP NOSHRFIR APSUPINV 20211207095646 RES Fund.pdf

AP NOSHRFIR APSUPINV 20211207095818 GEN Fund.pdf

November Payroll Approval Document.pdf November Payroll Taxes Approval Document.pdf November DRS Approval Document.pdf

October Commissioner Payroll Approval Document.pdf October Commissioner Payroll Taxes Approval Document.pdf

7.3 DRAFT Minutes RegularMtna 2021-11-16 with attachments.pdf7.3 DRAFT Minutes SpecialMtna 2021-11-23 with attachments.pdf

The following documents are Approved and Electronically Signed this 8th day of December 2021 by Commissioner Adman.

- AP\_NOSHRFIR\_APSUPINV\_20211207095646 RES Fund
- AP NOSHRFIR APSUPINV 20211207095818 GEN Fund
- November Payroll Approval Document
- November Payroll Taxes Approval Document
- November DRS Approval Document
- October Commissioner Payroll Approval Document
- · October Commissioner Payroll Taxes Approval Document
- Meeting minutes: 11/16/21 and 11/23/21

From: <u>Byers, Tyler</u>
To: <u>Board Secretary</u>

Subject: RE: Example: E-Signatures Required - 12/7/21 Meeting

Date: Thursday, December 9, 2021 7:19:14 AM

# The following documents are Approved and Electronically Signed this 9th day of December, 2021, by Commissioner Tyler Byers.

- AP\_NOSHRFIR\_APSUPINV\_20211207095646 RES Fund
- AP\_NOSHRFIR\_APSUPINV\_20211207095818 GEN Fund
- November Payroll Approval Document
- November Payroll Taxes Approval Document
- November DRS Approval Document
- October Commissioner Payroll Approval Document
- October Commissioner Payroll Taxes Approval Document
- Meeting minutes: 11/16/21 and 11/23/21

From: <u>Dave Maehren</u>
To: <u>Board Secretary</u>

Subject: RE: E-Signatures Required - 12/7/21 Meeting

Date: Wednesday, December 8, 2021 4:00:49 PM

Attachments: image001.png

# The following documents are Approved and Electronically Signed this 8th day of December, 2021, by Commissioner David C. Maehren.

- AP\_NOSHRFIR\_APSUPINV\_20211207095646 RES Fund
- AP\_NOSHRFIR\_APSUPINV\_20211207095818 GEN Fund
- November Payroll Approval Document
- November Payroll Taxes Approval Document
- November DRS Approval Document
- October Commissioner Payroll Approval Document
- October Commissioner Payroll Taxes Approval Document
- Meeting minutes: 11/16/21 and 11/23/21

 From:
 Josh Pratt

 To:
 Board Secretary

**Subject:** RE: E-Signatures Required - 12/7/21 Meeting **Date:** Wednesday, December 8, 2021 4:02:47 PM

# The following documents are Approved and Electronically Signed this 8th day of December, 2021, by Commissioner Josh Pratt.

- AP NOSHRFIR APSUPINV 20211207095646 RES Fund
- AP NOSHRFIR APSUPINV 20211207095818 GEN Fund
- November Payroll Approval Document
- November Payroll Taxes Approval Document
- November DRS Approval Document
- October Commissioner Payroll Approval Document
- October Commissioner Payroll Taxes Approval Document
- Meeting minutes: 11/16/21 and 11/23/21

From: Richard Webster
To: Board Secretary

Subject: RE: E-Signatures Required - 12/7/21 Meeting

Date: Wednesday, December 8, 2021 7:20:04 AM

# The following documents are Approved and Electronically Signed this 8th day of December, 2021, by Commissioner Rick Webster.

- AP\_NOSHRFIR\_APSUPINV\_20211207095646 RES Fund
- AP NOSHRFIR APSUPINV 20211207095818 GEN Fund
- November Payroll Approval Document
- November Payroll Taxes Approval Document
- November DRS Approval Document
- October Commissioner Payroll Approval Document
- October Commissioner Payroll Taxes Approval Document
- Meeting minutes: 11/16/21 and 11/23/21



### **Northshore Fire Department Board of Commissioners**

Headquarters Station 7220 NE 181st Street, Kenmore, WA

## Northshore Fire Department Board of Commissioners Regular Meeting Agenda

Tuesday, November 16, 2021 5:00PM

Meeting held virtually, via Zoom

To provide public comment, please see instructions at the end of the agenda.

To attend this meeting live, click the link below and enter the ID & Password provided.

A recording of this meeting will also be posted in AV Capture.

Join Zoom Meeting Online at:

https://us02web.zoom.us/j/85044713997?pwd=dW1uWDFpNldPZ1dSSU1ZYy9LSXVQQT09

Call in to Zoom Meeting at: (253) 215-8782

Meeting ID: 850 4471 3997

Passcode: 743608

- I. Open Regular Northshore Board Meeting
  - 1.1 Roll Call
- **II.** Public Comment
  - 2.1 Public Comment
- III. Approval of Agenda
  - 3.1 Approval of the Meeting Agenda
- IV. Board Discussion and Possible Action Items
  - 4.1 Conversation with IAFF, Local 2459
  - 4.2 RCL Capital Reserve Funding Study
  - 4.3 Revisit Reserve Funding Resolution 20-10
  - 4.4 Fire Marshall ILA Agreements
  - 4.5 Contract for Services Update
  - 4.6 NSFD Operations Discussion
  - 4.7 Water Rescue Program Discussion



#### 4.8 Fire Chief Performance Review Discussion

#### V. Executive Session

To discuss the performance of an employee pursuant to RCW 42.30.110(1)(g) and to discuss collective bargaining, the planning or adopting the strategy or position to be taken during the course of collective bargaining, or reviewing a proposal made in negotiations pursuant to RCW 42.30.140(4).

#### VI. Board Resolutions

None

#### VII. Consent Agenda

- 7.1 Vouchers
- 7.2 Meeting Minutes: Regular Meeting 11/2/2021 and Special Meeting 11/9/2021
- 7.3 Commissioner Compensation

#### VIII. Reports

- 8.1 Fire Chief Report
- 8.2 Commissioner Reports
- 8.3 Legal Counsel Report

#### IX. Upcoming Board Agendas

9.1 Setting of Future Meeting Agenda(s)

#### Adjournment

Next Regular Meeting: Tuesday, December 7th, 2021 at 5:00 PM

#### **Public Comment Procedures for Virtual Meetings:**

Individuals wishing to comment may comment by appearing at the virtual meeting and "raising their hand" or the equivalent. The chair shall recognize those persons and provide them the opportunity to comment. Three minutes are allowed for comment.

If you wish to provide written public comment, you may do so by submitting a written statement to <u>boardsecretary@northshorefire.com</u>. Any comments received up to one hour before the posted meeting time, will be read during the public comment period.

To ensure your written comments are received and read at the proper meeting, your email <u>must</u> include:

- Date & Time of the meeting your comments are intended for
- Your name
- Whether or not you live in the city limits of Lake Forest Park or Kenmore



• Agenda Item and/or subject your comments refer to

Emails without this information may not be read at the meeting. And, in accordance with normal procedure, messages of an overly repetitive or inappropriate (vulgarity) nature may be declined to be read at the discretion of the meeting Chair.

Please check the District's <u>AV Capture</u> for the most up-to-date information about individual meetings.

Questions? Email Board Secretary Amy Oakley at boardsecretary@northshorefire.com.





## NORTHSHORE FIRE DEPARTMENT

Lake Forest Park and Kenmore, Washington

Standard Level 3 Capital Reserve Study

#### **2022 FUNDING RECOMMENDATIONS**

Issued November, 2021

Prepared by:

Denise Dana, Reserve Specialist



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#### ABBREVIATION KEY

**EA** each

**BLDG** building(s)

**FIXT** fixture(s)

**LF** liner foot

LS lump sum

**SF** square feet

**SQ** roofing square

**SY** square yard

**ZN** zone



#### **EXECUTIVE SUMMARY**

This Capital Reserve Study was prepared by an independent Reserve Study Professional. Not all the information required for inclusion in reserve studies per RCW 64.90, RCW 64.38 or RCW 64.34 is applicable to the Northshore Fire Department. The calculations and definitions that are the basis for the report are represented in the Glossary of Terms, which refer to the appropriate RCW codes.

Northshore Fire Department has one station serving Kenmore and one station serving Lake Forest Park, Washington. Construction of Station 51 was completed in about 1995 & 2011 with construction of Station 57 finishing in about 1995. The headquarters are housed at Station 51, along with a training facility...

NORTHSHORE FIRE DEPARTMENT RESERVE FUND STATUS	
NORTHSHORE FIRE DEPARTMENT'S FISCAL YEAR	a calendar year
RESERVE ACCOUNT BALANCE ON <b>JANUARY 1, 2021</b>	\$354,070 <sup>1</sup>
FULLY FUNDED BALANCE YEAR 2021	\$1,093,546 <sup>2</sup>
PERCENT FUNDED AT TIME OF STUDY	32% <sup>3</sup>
FUNDING STATUS - RISK OF SPECIAL ASSESSMENT	Moderate Risk
2021 PLANNED OR IMPLEMENTED SPECIAL ASSESSMENT	None
COMPONENT INCLUSION THRESHOLD VALUE	\$

NORTHSHORE FIRE DEPARTMENT CURRENT AND RECOMMENDED RESERVE	E CONTRIBUTIONS
CURRENT BUDGETED ANNUAL CONTRIBUTION TO RESERVES	\$185,300
2022 RECOMMENDED ANNUAL CONTRIBUTION RATE	\$182,300
2022 RECOMMENDED CONTRIBUTION PER MONTH	\$15,192
2022 AVERAGE CONTRIBUTION PER UNIT PER YEAR	\$182,300
2022 AVERAGE CONTRIBUTION PER UNIT PER MONTH	\$15,192
2022 BASELINE FUNDING PLAN CONTRIBUTION RATE	\$152,600
2022 FULL FUNDING PLAN CONTRIBUTION RATE	\$188,000

<sup>&</sup>lt;sup>1</sup> The actual or projected total reserve fund balance presented in the Reserve Study is based on information provided by the Organization representative and was not audited by RCL.

<sup>&</sup>lt;sup>2</sup> The fully funded balance for each reserve component is calculated by multiplying the current replacement cost of that reserve component by its effective age, then dividing the result by that reserve component's useful life. The sum total of all reserve components' fully funded balances is the Organization's fully funded balance as defined in RCW 64.34.020 §24 & RCW §64.90.010 §26. The fully funded balance changes from year to year.

<sup>&</sup>lt;sup>3</sup> The percent fully funded acts as a measuring tool to assess an Organization's ability to absorb unplanned expenses. These expenses could be emergency repairs not covered by insurance, or expenses that differ from the existing Reserve Study in terms of timing or cost.

2022



#### **FINANCIAL OVERVIEW FOR 2022**

\$525,948

2022 Estimated Starting Balance 48%

2022 Estimated Percent Funded w/the Recommended Funding Plan

\$175,884

2022 Estimated Reserve Expenditures

#### RESERVE CONTRIBUTION COMPARISON 2021 VS 2022

2021

\$185,300

Organization's
Budgeted
Contribution

**BALANCE CALCULATIONS** 

\$185,300

Recommended Contribution to Reserves

100%

% of 2019 Recommended Contribution Budgeted In 2021

Recommended Contribution to Reserves

\$182,300

2%

% Reduction Between 2022 Recommended & 2021 Budgeted Contribution to Reserves

The recommended reserve contribution represents a Threshold Funding Plan to prevent special assessments over the course of the 30-year study while maintaining a minimum reserve account balance of one year's contribution to reserves and the percent funded above 48%. Washington State law requires an up to date Reserve Study with a current recommended reserve contribution rate.

#### ESTIMATED STARTING RESERVE FUND BALANCE FOR 2022

# The fiscal year for Northshore Fire Department is a calendar year. \$354,070 Reserve Fund Balance as of January 1, 2021 (\$0) Anticipated Remaining Reserve Expenses In 2021 \$0 Planned Special Assessment In 2021 \$169,858 Remaining Reserve Contributions For 2021 \$2,019 Projected Interest on the 2021 Reserve Fund Balance

\$525,948 ESTIMATED STARTING BALANCE FOR FISCAL YEAR 2022

THERE ARE NO ANTICIPATED REMAINING MAINTENANCE EXPENSES FOR 2021.



#### **ORGANIZATION OVERVIEW**

Northshore Fire Department has one station serving Kenmore and one serving Lake Forest Park in the State of Washington.

The Department headquarters are housed at Station 51, along with a training facility, in Kenmore. Construction of Station 51 was completed in 2011.

Station 57 occupies a site in Lake Forest Park and was constructed in 1995.

Images are from file photos taken at the last site visit.







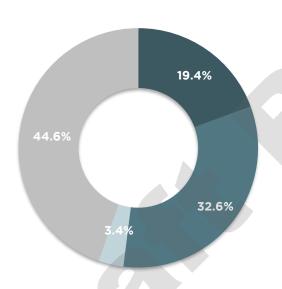


#### **COMPONENT SUMMARY**

Each reserve component is evaluated to determine the current condition, the remaining useful life, and the estimated replacement cost. Reserve studies for homeowners' associations are required to include any reserve component that would cost more than one percent of the annual budget of the association, not including the reserve account, for major maintenance, repair, or replacement (RCW 64.38.070). While the law defines the inclusion threshold to be 1% of the operating budget, or \$0, components valued less than the legal threshold may be included to better capture reserve funding for Northshore Fire Department.

## ANTICIPATED EXPENSES<sup>1</sup> ALLOCATED OVER 30 YEARS FOR NORTHSHORE FIRE DEPARTMENT

The components listed below provide examples for each category and may or may not pertain specifically to components that Northshore Fire Department is responsible for maintaining.



#### **PRIMARY EXPENSES**

**19.4% LIFE SAFETY:** plumbing, drainage, HVAC, electrical, lighting, & fire suppression

**32.6% EXTERIOR ENVELOPE:** structural components, guardrails, decks, siding, chimney chases, roofing, gutters & downspouts, doors, windows, skylights, caulking, & exterior finishes

**3.4% ELEVATOR:** dedicated equipment, interior cab refurbishment & major maintenance for the elevator

#### **SECONDARY EXPENSES - Discretionary**

**44.6% SECONDARY** including paving, docks, fencing, walkways, signage, mailboxes, kitchen & laundry equipment, interior flooring & paint, furniture, intercom, security systems, reserve studies<sup>2</sup>

The total anticipated Primary and Secondary expenses over the next 30 years are illustrated to help the community understand the ratio of obligatory and elective maintenance. The ratio for the first five years is provided later in the report to assist with budgeting refinements.

**Primary Expenses** are maintenance expenses that should not be deferred due to the potential consequences of postponing upkeep of these components.

**Secondary Expenses** are maintenance expenses that could potentially be deferred since the timing of maintenance is typically discretionary.

<sup>&</sup>lt;sup>1</sup> Not all components that are the individual unit owners' responsibility are described in the report. Items maintained with funds from the annual operating and/or individual unit owners are not included in the reserve fund analysis.

<sup>&</sup>lt;sup>2</sup> While reserve study annual updates are required by law, there is no penalty for not completing an annual update and the lack of an annual update does not necessarily pose a risk to public safety.



#### **COMPONENT LIST**

The component list is based on information provided by Northshore Fire Department. Reserve Consultants LLC does not provide legal interpretations of governing documents It is the responsibility of Northshore Fire Department to ensure that the component list is complete and complies with their governing documents. Many factors may influence the actual costs that the Organization will experience. The quality of replacement materials of items can significantly impact cost, as well as the timing between replacements. The use of Architects or independent construction managers to specify and oversee work may also cause additional expenses.

Primary Expenses	Secondary (Discretionary) Expenses

2.4.1 Concrete - Paving Repairs         Site         10         3         2024         \$18,550           2.4.2 Concrete - Repaint Stalls & Curbs         Site         10         1         2022         \$1,700           2.7.1 Prefinished Metal Fence - Replace         Site         30         19         2040         \$74,420           2.7.2 Prefinished Metal Fence & Gates - Maintenance         Site         10         3         2024         \$7,440           2.7.3 Gate Operator - Maintenance         Site         3         1         2022         \$1,680           2.8.1 Wood Benches - Maintenance         Site         10         3         2024         \$2,240           2.9.1 Landscaping - Maintenance         Site         8         6         2027         \$15,290           3.3.1 Concrete Walkways - Repair         Concrete         6         1         2022         \$5,560           3.3.2 Cast Concrete Retaining Walls - Repair         Concrete         15         4         2025         \$16,180           6.1.1 Garbage Bin Enclosure - Repair         Ext Envelope         15         4         2025         \$2,550           6.2.1 Pedestal Paver - Maintenance         Ext Envelope         30         19         2040         \$1,870           6.2.2 PVC						
2.4.2 Concrete - Repaint Stalls & Curbs         Site         10         1         2022         \$1,700           2.7.1 Prefinished Metal Fence - Replace         Site         30         19         2040         \$74,420           2.7.2 Prefinished Metal Fence & Gates - Maintenance         Site         10         3         2024         \$7,440           2.7.3 Gate Operator - Maintenance         Site         3         1         2022         \$1,680           2.8.1 Wood Benches - Maintenance         Site         8         6         2027         \$15,290           3.3.1 Concrete Walikways - Repair         Concrete         6         1         2022         \$5,560           3.3.2 Cast Concrete Retaining Walls - Repair         Concrete         15         4         2025         \$16,180           6.1.1 Garbage Bin Enclosure - Repair         Ext Envelope         15         4         2025         \$2,550           6.2.1 Pedestal Paver - Maintenance         Ext Envelope         30         19         2040         \$1,870           6.2.2 PVC Thermoplastic Membrane - Replace         Ext Envelope         30         19         2040         \$4,040           6.4.2 GMU Wall - Tuck Point         Ext Envelope         20         9         2030         \$54,800 <t< th=""><th>COMPONENT DESCRIPTION</th><th></th><th></th><th>USEFUL</th><th>MAINT.</th><th>REPLACEMENT</th></t<>	COMPONENT DESCRIPTION			USEFUL	MAINT.	REPLACEMENT
2.7.1         Prefinished Metal Fence - Replace         Site         30         19         2040         \$74,420           2.7.2         Prefinished Metal Fence & Gates - Maintenance         Site         10         3         2024         \$7,440           2.7.3         Gate Operator - Maintenance         Site         3         1         2022         \$1,680           2.8.1         Wood Benches - Maintenance         Site         8         6         2027         \$15,290           3.3.1         Concrete Walkways - Repair         Concrete         6         1         2022         \$5,560           3.3.2         Cast Concrete Retaining Walls - Repair         Concrete         15         4         2025         \$16,180           6.1.1         Garbage Bin Enclosure - Repair         Ext Envelope         15         4         2025         \$2,550           6.2.1         Pedestal Paver - Maintenance         Ext Envelope         15         4         2025         \$2,550           6.2.2         PVC Thermoplastic Membrane - Replace         Ext Envelope         30         19         2040         \$1,870           6.4.2         Brick Siding - Maintenance         Ext Envelope         20         9         2030         \$9,830	2.4.1 Concrete - Paving Repairs	Site	10	3	2024	\$18,550
2.7.2 Prefinished Metal Fence & Gates - Maintenance         Site         10         3         2024         \$7,440           2.7.3 Gate Operator - Maintenance         Site         3         1         2022         \$1,680           2.8.1 Wood Benches - Maintenance         Site         10         3         2024         \$2,240           2.9.1 Landscaping - Maintenance         Site         8         6         2027         \$15,290           3.3.1 Concrete Walkways - Repair         Concrete         6         1         2022         \$5,560           3.3.2 Cast Concrete Retaining Walls - Repair         Concrete         15         4         2025         \$16,180           6.1.1 Garbage Bin Enclosure - Repair         Ext Envelope         15         4         2025         \$2,550           6.2.1 Pedestal Paver - Maintenance         Ext Envelope         30         19         2040         \$1,870           6.2.2 PVC Thermoplastic Membrane - Replace         Ext Envelope         30         19         2040         \$4,040           6.4.1 Brick Siding - Maintenance         Ext Envelope         20         9         2030         \$9,830           6.4.2 CHU Wall - Tuck Point         Ext Envelope         20         9         2030         \$54,800	2.4.2 Concrete - Repaint Stalls & Curbs	Site	10	1	2022	\$1,700
2.7.3 Gate Operator - Maintenance         Site         3         1         2022         \$1,680           2.8.1 Wood Benches - Maintenance         Site         10         3         2024         \$2,240           2.9.1 Landscaping - Maintenance         Site         8         6         2027         \$15,290           3.3.1 Concrete Walkways - Repair         Concrete         6         1         2022         \$5,560           3.3.2 Cast Concrete Retaining Walls - Repair         Concrete         15         4         2025         \$16,180           6.1.1 Garbage Bin Enclosure - Repair         Ext Envelope         15         4         2025         \$2,550           6.2.1 Pedestal Paver - Maintenance         Ext Envelope         30         19         2040         \$1,870           6.2.2 PVC Thermoplastic Membrane - Replace         Ext Envelope         30         19         2040         \$4,040           6.4.1 Brick Siding - Maintenance         Ext Envelope         20         9         2030         \$9,830           6.4.2 CMU Wall - Tuck Point         Ext Envelope         20         9         2030         \$54,800           6.4.3 Fiber Cement Board Siding - Repair         Ext Envelope         10         1         2022         \$6,260 <t< td=""><td>2.7.1 Prefinished Metal Fence - Replace</td><td>Site</td><td>30</td><td>19</td><td>2040</td><td>\$74,420</td></t<>	2.7.1 Prefinished Metal Fence - Replace	Site	30	19	2040	\$74,420
2.8.1         Wood Benches - Maintenance         Site         10         3         2024         \$2,240           2.9.1         Landscaping - Maintenance         Site         8         6         2027         \$15,290           3.3.1         Concrete Walkways - Repair         Concrete         6         1         2022         \$5,560           3.3.2         Cast Concrete Retaining Walls - Repair         Concrete         15         4         2025         \$16,180           6.1.1         Garbage Bin Enclosure - Repair         Ext Envelope         15         4         2025         \$2,550           6.2.1         Pedestal Paver - Maintenance         Ext Envelope         30         19         2040         \$1,870           6.2.2         PVC Thermoplastic Membrane - Replace         Ext Envelope         30         19         2040         \$4,040           6.4.1         Brick Siding - Maintenance         Ext Envelope         20         9         2030         \$9,830           6.4.2         CMU Wall - Tuck Point         Ext Envelope         20         9         2030         \$54,800           6.4.3         Fiber Cement Board Siding - Repair         Ext Envelope         35         24         2045         \$41,970           7.	2.7.2 Prefinished Metal Fence & Gates - Maintenance	Site	10	3	2024	\$7,440
2.9.1 Landscaping - Maintenance       Site       8       6       2027       \$15,290         3.3.1 Concrete Walkways - Repair       Concrete       6       1       2022       \$5,560         3.3.2 Cast Concrete Retaining Walls - Repair       Concrete       15       4       2025       \$16,180         6.1.1 Garbage Bin Enclosure - Repair       Ext Envelope       15       4       2025       \$2,550         6.2.1 Pedestal Paver - Maintenance       Ext Envelope       30       19       2040       \$1,870         6.2.2 PVC Thermoplastic Membrane - Replace       Ext Envelope       30       19       2040       \$4,040         6.4.1 Brick Siding - Maintenance       Ext Envelope       20       9       2030       \$9,830         6.4.2 CMU Wall - Tuck Point       Ext Envelope       20       9       2030       \$54,800         6.4.3 Fiber Cement Board Siding - Repair       Ext Envelope       20       9       2030       \$54,800         6.4.4 Metal Siding - Replace       Ext Envelope       35       24       2045       \$41,970         7.1.1 Sealant Joints - Replace       Ext Envelope       35       24       2045       \$41,970         7.3.1 Scuppers, Gutters & Downspouts - Replace       Ext Envelope       30 <td< td=""><td>2.7.3 Gate Operator - Maintenance</td><td>Site</td><td>3</td><td>1</td><td>2022</td><td>\$1,680</td></td<>	2.7.3 Gate Operator - Maintenance	Site	3	1	2022	\$1,680
3.3.1 Concrete Walkways - Repair       Concrete       6       1       2022       \$5,560         3.3.2 Cast Concrete Retaining Walls - Repair       Concrete       15       4       2025       \$16,180         6.1.1 Garbage Bin Enclosure - Repair       Ext Envelope       15       4       2025       \$2,550         6.2.1 Pedestal Paver - Maintenance       Ext Envelope       30       19       2040       \$1,870         6.2.2 PVC Thermoplastic Membrane - Replace       Ext Envelope       30       19       2040       \$4,040         6.4.1 Brick Siding - Maintenance       Ext Envelope       20       9       2030       \$9,830         6.4.2 CMU Wall - Tuck Point       Ext Envelope       20       9       2030       \$54,800         6.4.3 Fiber Cement Board Siding - Repair       Ext Envelope       20       9       2030       \$54,800         6.4.4 Metal Siding - Replace       Ext Envelope       35       24       2045       \$41,970         7.1.1 Sealant Joints - Replace       Ext Envelope       35       24       2045       \$41,970         7.3.1 Scuppers, Gutters & Downspouts - Replace       Ext Envelope       30       19       2040       \$13,3100         7.4.1 Low Sloped Ribbed Roof - Replace       Ext Envelope <td< td=""><td>2.8.1 Wood Benches - Maintenance</td><td>Site</td><td>10</td><td>3</td><td>2024</td><td>\$2,240</td></td<>	2.8.1 Wood Benches - Maintenance	Site	10	3	2024	\$2,240
3.3.2 Cast Concrete Retaining Walls - Repair         Concrete         15         4         2025         \$16,180           6.1.1 Garbage Bin Enclosure - Repair         Ext Envelope         15         4         2025         \$2,550           6.2.1 Pedestal Paver - Maintenance         Ext Envelope         30         19         2040         \$1,870           6.2.2 PVC Thermoplastic Membrane - Replace         Ext Envelope         30         19         2040         \$4,040           6.4.1 Brick Siding - Maintenance         Ext Envelope         20         9         2030         \$9,830           6.4.2 CMU Wall - Tuck Point         Ext Envelope         20         9         2030         \$54,800           6.4.3 Fiber Cement Board Siding - Repair         Ext Envelope         10         1         2022         \$6,260           6.4.4 Metal Siding - Replace         Ext Envelope         35         24         2045         \$41,970           7.1.1 Sealant Joints - Replace         Ext Envelope         30         19         2040         \$3,640           7.4.1 Low Sloped Ribbed Roof - Replace         Ext Envelope         30         19         2040         \$13,100           7.4.2 Low Sloped Smooth Roof - Replace         Ext Envelope         30         19         2040 <td< td=""><td>2.9.1 Landscaping - Maintenance</td><td>Site</td><td>8</td><td>6</td><td>2027</td><td>\$15,290</td></td<>	2.9.1 Landscaping - Maintenance	Site	8	6	2027	\$15,290
6.1.1 Garbage Bin Enclosure - Repair  Ext Envelope  15	3.3.1 Concrete Walkways - Repair	Concrete	6	1	2022	\$5,560
6.2.1 Pedestal Paver - Maintenance         Ext Envelope         30         19         2040         \$1,870           6.2.2 PVC Thermoplastic Membrane - Replace         Ext Envelope         30         19         2040         \$4,040           6.4.1 Brick Siding - Maintenance         Ext Envelope         20         9         2030         \$9,830           6.4.2 CMU Wall - Tuck Point         Ext Envelope         20         9         2030         \$54,800           6.4.3 Fiber Cement Board Siding - Repair         Ext Envelope         10         1         2022         \$6,260           6.4.4 Metal Siding - Replace         Ext Envelope         35         24         2045         \$41,970           7.1.1 Sealant Joints - Replace         Ext Envelope         15         4         2025         \$22,870           7.3.1 Scuppers, Gutters & Downspouts - Replace         Ext Envelope         30         19         2040         \$3,640           7.4.1 Low Sloped Ribbed Roof - Replace         Ext Envelope         30         19         2040         \$127,240           7.4.2 Low Sloped Smooth Roof - Replace         Ext Envelope         30         19         2040         \$1,230           7.4.3 Tower Composition Shingles - Replace         Ext Envelope         50         39         2060 <td>3.3.2 Cast Concrete Retaining Walls - Repair</td> <td>Concrete</td> <td>15</td> <td>4</td> <td>2025</td> <td>\$16,180</td>	3.3.2 Cast Concrete Retaining Walls - Repair	Concrete	15	4	2025	\$16,180
6.2.2 PVC Thermoplastic Membrane - Replace       Ext Envelope       30       19       2040       \$4,040         6.4.1 Brick Siding - Maintenance       Ext Envelope       20       9       2030       \$9,830         6.4.2 CMU Wall - Tuck Point       Ext Envelope       20       9       2030       \$54,800         6.4.3 Fiber Cement Board Siding - Repair       Ext Envelope       10       1       2022       \$6,260         6.4.4 Metal Siding - Replace       Ext Envelope       35       24       2045       \$41,970         7.1.1 Sealant Joints - Replace       Ext Envelope       15       4       2025       \$22,870         7.3.1 Scuppers, Gutters & Downspouts - Replace       Ext Envelope       30       19       2040       \$3,640         7.4.1 Low Sloped Ribbed Roof - Replace       Ext Envelope       30       19       2040       \$193,100         7.4.2 Low Sloped Smooth Roof - Replace       Ext Envelope       30       19       2040       \$127,240         7.4.3 Tower Composition Shingles - Replace       Ext Envelope       30       19       2040       \$1,230         7.4.4 Tower Metal Roof - Replace       Ext Envelope       50       39       2060       \$5,250         7.4.5 Apparatus Bay Metal Roof - Replace       Ext Envelo	6.1.1 Garbage Bin Enclosure - Repair	Ext Envelope	15	4	2025	\$2,550
6.4.1 Brick Siding - Maintenance       Ext Envelope       20       9       2030       \$9,830         6.4.2 CMU Wall - Tuck Point       Ext Envelope       20       9       2030       \$54,800         6.4.3 Fiber Cement Board Siding - Repair       Ext Envelope       10       1       2022       \$6,260         6.4.4 Metal Siding - Replace       Ext Envelope       35       24       2045       \$41,970         7.1.1 Sealant Joints - Replace       Ext Envelope       15       4       2025       \$22,870         7.3.1 Scuppers, Gutters & Downspouts - Replace       Ext Envelope       30       19       2040       \$3,640         7.4.1 Low Sloped Ribbed Roof - Replace       Ext Envelope       30       19       2040       \$193,100         7.4.2 Low Sloped Smooth Roof - Replace       Ext Envelope       30       19       2040       \$127,240         7.4.3 Tower Composition Shingles - Replace       Ext Envelope       30       19       2040       \$1,230         7.4.4 Tower Metal Roof - Replace       Ext Envelope       50       39       2060       \$5,250         7.4.5 Apparatus Bay Metal Roof - Replace       Ext Envelope       5       3       2024       \$6,250         8.2.1 Folding Bay Doors & Hardware - Maintenance       Ext En	6.2.1 Pedestal Paver - Maintenance	Ext Envelope	30	19	2040	\$1,870
6.4.2 CMU Wall - Tuck Point	6.2.2 PVC Thermoplastic Membrane - Replace	Ext Envelope	30	19	2040	\$4,040
6.4.3 Fiber Cement Board Siding - Repair  Ext Envelope 6.4.4 Metal Siding - Replace Ext Envelope 7.1.1 Sealant Joints - Replace Ext Envelope 15 4 2025 \$22,870 7.3.1 Scuppers, Gutters & Downspouts - Replace Ext Envelope 8.2.1 Folding Bay Doors & Hardware - Replace Ext Envelope 8.2.5 Doors & Hardware - Maintenance Ext Envelope 8.2.5 Doors & Hardware - Maintenance Ext Envelope 8 30 19 2040 \$193,100 19 2040 \$193,100 19 2040 \$127,240 19 2040 \$127,240 19 2040 \$127,240 19 2040 \$1,230 19 2040 \$24,670 19 2040 \$24,670 19 2040 \$24,670 19 2040 \$24,670 19 2040 \$10,090 10 2040 \$10,090 10 2040 \$10,090 10 2040 \$10,090 10 2040 \$10,090	6.4.1 Brick Siding - Maintenance	Ext Envelope	20	9	2030	\$9,830
6.4.4 Metal Siding - Replace       Ext Envelope       35       24       2045       \$41,970         7.1.1 Sealant Joints - Replace       Ext Envelope       15       4       2025       \$22,870         7.3.1 Scuppers, Gutters & Downspouts - Replace       Ext Envelope       30       19       2040       \$3,640         7.4.1 Low Sloped Ribbed Roof - Replace       Ext Envelope       30       19       2040       \$193,100         7.4.2 Low Sloped Smooth Roof - Replace       Ext Envelope       30       19       2040       \$127,240         7.4.3 Tower Composition Shingles - Replace       Ext Envelope       30       19       2040       \$1,230         7.4.4 Tower Metal Roof - Replace       Ext Envelope       50       39       2060       \$5,250         7.4.5 Apparatus Bay Metal Roof - Replace       Ext Envelope       40       29       2050       \$16,620         7.4.6 Roof Inspection & Minor Repair       Ext Envelope       5       3       2024       \$6,250         8.2.1 Folding Bay Doors & Hardware - Maintenance       Ext Envelope       5       2       2023       \$5,610         8.2.2 Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4 Coiling Door - Maintenance	6.4.2 CMU Wall - Tuck Point	Ext Envelope	20	9	2030	\$54,800
7.1.1       Sealant Joints - Replace       Ext Envelope       15       4       2025       \$22,870         7.3.1       Scuppers, Gutters & Downspouts - Replace       Ext Envelope       30       19       2040       \$3,640         7.4.1       Low Sloped Ribbed Roof - Replace       Ext Envelope       30       19       2040       \$193,100         7.4.2       Low Sloped Smooth Roof - Replace       Ext Envelope       30       19       2040       \$127,240         7.4.3       Tower Composition Shingles - Replace       Ext Envelope       30       19       2040       \$1,230         7.4.4       Tower Metal Roof - Replace       Ext Envelope       50       39       2060       \$5,250         7.4.5       Apparatus Bay Metal Roof - Replace       Ext Envelope       40       29       2050       \$16,620         7.4.6       Roof Inspection & Minor Repair       Ext Envelope       5       3       2024       \$6,250         8.2.1       Folding Bay Doors & Hardware - Maintenance       Ext Envelope       5       2       2023       \$5,610         8.2.2       Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4       Coiling Door - Maintenance	6.4.3 Fiber Cement Board Siding - Repair	Ext Envelope	10	1	2022	\$6,260
7.3.1 Scuppers, Gutters & Downspouts - Replace       Ext Envelope       30       19       2040       \$3,640         7.4.1 Low Sloped Ribbed Roof - Replace       Ext Envelope       30       19       2040       \$193,100         7.4.2 Low Sloped Smooth Roof - Replace       Ext Envelope       30       19       2040       \$127,240         7.4.3 Tower Composition Shingles - Replace       Ext Envelope       30       19       2040       \$1,230         7.4.4 Tower Metal Roof - Replace       Ext Envelope       50       39       2060       \$5,250         7.4.5 Apparatus Bay Metal Roof - Replace       Ext Envelope       40       29       2050       \$16,620         7.4.6 Roof Inspection & Minor Repair       Ext Envelope       5       3       2024       \$6,250         8.2.1 Folding Bay Doors & Hardware - Maintenance       Ext Envelope       5       2       2023       \$5,610         8.2.2 Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4 Coiling Door - Maintenance       Ext Envelope       5       1       2040       \$10,090         8.2.5 Doors & Hardware - Maintenance       Ext Envelope       5       1       2022       \$3,650	6.4.4 Metal Siding - Replace	Ext Envelope	35	24	2045	\$41,970
7.4.1 Low Sloped Ribbed Roof - Replace       Ext Envelope       30       19       2040       \$193,100         7.4.2 Low Sloped Smooth Roof - Replace       Ext Envelope       30       19       2040       \$127,240         7.4.3 Tower Composition Shingles - Replace       Ext Envelope       30       19       2040       \$1,230         7.4.4 Tower Metal Roof - Replace       Ext Envelope       50       39       2060       \$5,250         7.4.5 Apparatus Bay Metal Roof - Replace       Ext Envelope       40       29       2050       \$16,620         7.4.6 Roof Inspection & Minor Repair       Ext Envelope       5       3       2024       \$6,250         8.2.1 Folding Bay Doors & Hardware - Maintenance       Ext Envelope       5       2       2023       \$5,610         8.2.2 Overhead Bay Doors & Hardware - Replace       Ext Envelope       30       19       2040       \$24,670         8.2.3 Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4 Coiling Door - Maintenance       Ext Envelope       5       1       2040       \$10,090         8.2.5 Doors & Hardware - Maintenance       Ext Envelope       5       1       2022       \$3,650	7.1.1 Sealant Joints - Replace	Ext Envelope	15	4	2025	\$22,870
7.4.2 Low Sloped Smooth Roof - Replace       Ext Envelope       30       19       2040       \$127,240         7.4.3 Tower Composition Shingles - Replace       Ext Envelope       30       19       2040       \$1,230         7.4.4 Tower Metal Roof - Replace       Ext Envelope       50       39       2060       \$5,250         7.4.5 Apparatus Bay Metal Roof - Replace       Ext Envelope       40       29       2050       \$16,620         7.4.6 Roof Inspection & Minor Repair       Ext Envelope       5       3       2024       \$6,250         8.2.1 Folding Bay Doors & Hardware - Maintenance       Ext Envelope       5       2       2023       \$5,610         8.2.2 Overhead Bay Doors & Hardware - Replace       Ext Envelope       30       19       2040       \$24,670         8.2.3 Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4 Coiling Door - Maintenance       Ext Envelope       5       1       2040       \$10,090         8.2.5 Doors & Hardware - Maintenance       Ext Envelope       5       1       2022       \$3,650	7.3.1 Scuppers, Gutters & Downspouts - Replace	Ext Envelope	30	19	2040	\$3,640
7.4.3 Tower Composition Shingles - Replace       Ext Envelope       30       19       2040       \$1,230         7.4.4 Tower Metal Roof - Replace       Ext Envelope       50       39       2060       \$5,250         7.4.5 Apparatus Bay Metal Roof - Replace       Ext Envelope       40       29       2050       \$16,620         7.4.6 Roof Inspection & Minor Repair       Ext Envelope       5       3       2024       \$6,250         8.2.1 Folding Bay Doors & Hardware - Maintenance       Ext Envelope       5       2       2023       \$5,610         8.2.2 Overhead Bay Doors & Hardware - Replace       Ext Envelope       30       19       2040       \$24,670         8.2.3 Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4 Coiling Door - Maintenance       Ext Envelope       30       19       2040       \$10,090         8.2.5 Doors & Hardware - Maintenance       Ext Envelope       5       1       2022       \$3,650	7.4.1 Low Sloped Ribbed Roof - Replace	Ext Envelope	30	19	2040	\$193,100
7.4.4 Tower Metal Roof - Replace       Ext Envelope       50       39       2060       \$5,250         7.4.5 Apparatus Bay Metal Roof - Replace       Ext Envelope       40       29       2050       \$16,620         7.4.6 Roof Inspection & Minor Repair       Ext Envelope       5       3       2024       \$6,250         8.2.1 Folding Bay Doors & Hardware - Maintenance       Ext Envelope       5       2       2023       \$5,610         8.2.2 Overhead Bay Doors & Hardware - Replace       Ext Envelope       30       19       2040       \$24,670         8.2.3 Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4 Coiling Door - Maintenance       Ext Envelope       30       19       2040       \$10,090         8.2.5 Doors & Hardware - Maintenance       Ext Envelope       5       1       2022       \$3,650	7.4.2 Low Sloped Smooth Roof - Replace	Ext Envelope	30	19	2040	\$127,240
7.4.5 Apparatus Bay Metal Roof - Replace       Ext Envelope       40       29       2050       \$16,620         7.4.6 Roof Inspection & Minor Repair       Ext Envelope       5       3       2024       \$6,250         8.2.1 Folding Bay Doors & Hardware - Maintenance       Ext Envelope       5       2       2023       \$5,610         8.2.2 Overhead Bay Doors & Hardware - Replace       Ext Envelope       30       19       2040       \$24,670         8.2.3 Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4 Coiling Door - Maintenance       Ext Envelope       30       19       2040       \$10,090         8.2.5 Doors & Hardware - Maintenance       Ext Envelope       5       1       2022       \$3,650	7.4.3 Tower Composition Shingles - Replace	Ext Envelope	30	19	2040	\$1,230
7.4.6 Roof Inspection & Minor Repair       Ext Envelope       5       3       2024       \$6,250         8.2.1 Folding Bay Doors & Hardware - Maintenance       Ext Envelope       5       2       2023       \$5,610         8.2.2 Overhead Bay Doors & Hardware - Replace       Ext Envelope       30       19       2040       \$24,670         8.2.3 Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4 Coiling Door - Maintenance       Ext Envelope       30       19       2040       \$10,090         8.2.5 Doors & Hardware - Maintenance       Ext Envelope       5       1       2022       \$3,650	7.4.4 Tower Metal Roof - Replace	Ext Envelope	50	39	2060	\$5,250
8.2.1 Folding Bay Doors & Hardware - Maintenance       Ext Envelope       5       2       2023       \$5,610         8.2.2 Overhead Bay Doors & Hardware - Replace       Ext Envelope       30       19       2040       \$24,670         8.2.3 Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4 Coiling Door - Maintenance       Ext Envelope       30       19       2040       \$10,090         8.2.5 Doors & Hardware - Maintenance       Ext Envelope       5       1       2022       \$3,650	7.4.5 Apparatus Bay Metal Roof - Replace	Ext Envelope	40	29	2050	\$16,620
8.2.2 Overhead Bay Doors & Hardware - Replace       Ext Envelope       30       19       2040       \$24,670         8.2.3 Overhead Bay Door Operator - Contingency       Ext Envelope       5       2       2023       \$13,010         8.2.4 Coiling Door - Maintenance       Ext Envelope       30       19       2040       \$10,090         8.2.5 Doors & Hardware - Maintenance       Ext Envelope       5       1       2022       \$3,650	7.4.6 Roof Inspection & Minor Repair	Ext Envelope	5	3	2024	\$6,250
8.2.3 Overhead Bay Door Operator - ContingencyExt Envelope522023\$13,0108.2.4 Coiling Door - MaintenanceExt Envelope30192040\$10,0908.2.5 Doors & Hardware - MaintenanceExt Envelope512022\$3,650	8.2.1 Folding Bay Doors & Hardware - Maintenance	Ext Envelope	5	2	2023	\$5,610
8.2.4 Coiling Door - Maintenance       Ext Envelope       30       19       2040       \$10,090         8.2.5 Doors & Hardware - Maintenance       Ext Envelope       5       1       2022       \$3,650	8.2.2 Overhead Bay Doors & Hardware - Replace	Ext Envelope	30	19	2040	\$24,670
8.2.5 Doors & Hardware - Maintenance Ext Envelope 5 1 2022 \$3,650	8.2.3 Overhead Bay Door Operator - Contingency	Ext Envelope	5	2	2023	\$13,010
	8.2.4 Coiling Door - Maintenance	Ext Envelope	30	19	2040	\$10,090
8.3.1 Storefront System - Maintenance Ext Envelope 15 4 2025 \$7,820	8.2.5 Doors & Hardware - Maintenance	Ext Envelope	5	1	2022	\$3,650
	8.3.1 Storefront System - Maintenance	Ext Envelope	15	4	2025	\$7,820



COMPONENT DESCRIPTION		MAINT. CYCLE	REMAINING USEFUL LIFE	NEXT MAINT. YEAR	CURRENT REPLACEMENT COST
8.3.2 Storefront System - Replace	Ext Envelope	60	50	2071	\$39,090
8.5.1 Aluminum Windows - Replace	Ext Envelope	40	29	2050	\$176,280
9.8.1 Cedar Wood Siding - Maintenance	Ext Envelope	6	1	2022	\$22,300
9.8.2 Concrete Siding - Maintenance	Ext Envelope	12	1	2022	\$5,160
9.8.3 Exterior Steel - Maintenance	Ext Envelope	6	4	2025	\$8,160
9.8.4 Fiber Cement Board Siding - Caulk & Paint	Ext Envelope	8	1	2022	\$21,630
10.4.1 Exterior Signage - Refurbish	Specialties	10	2	2023	\$2,550
10.5.1 Exterior Mail Pedestal Unit - Replace	Specialties	25	14	2035	\$2,240
11.1.1 Propane Forklift - Replace	Equipment	20	8	2029	\$22,430
11.4.1 Admin Kitchen Equipment - Contingency	Equipment	10	6	2027	\$5,100
11.4.2 Duty Crew Kitchen Equipment - Contingency	Equipment	5	3	2024	\$15,290
11.6.1 Laundry Equipment - Contingency	Equipment	5	3	2024	\$3,810
11.6.2 Unimac Gear Extractor - Replace	Equipment	12	1	2022	\$8,970
11.6.3 Ramair Gear Dryer - Replace	Equipment	12	1	2022	\$11,210
11.8.1 Air Compressor System - Replace	Equipment	15	4	2025	\$8,970
12.1.1 Apparatus Bay - Refurbish	Finishes/Furnishings	25	14	2035	\$70,190
12.1.2 Admin Common Areas - Repaint	Finishes/Furnishings	16	5	2026	\$17,610
12.1.3 Exercise Room - Refurbish	Finishes/Furnishings	20	9	2030	\$3,060
12.1.4 Bunk Gear Storage - Refurbish	Finishes/Furnishings	10	3	2024	\$8,160
12.1.5 Admin Offices - Refurbish	Finishes/Furnishings	16	5	2026	\$25,480
12.1.6 Lobby - Refurbish	Finishes/Furnishings	15	6	2027	\$20,390
12.1.7 Public Meeting Room - Refurbish	Finishes/Furnishings	12	1	2022	\$15,290
12.1.8 Public & Admin Restrooms - Refurbish	Finishes/Furnishings	20	9	2030	\$19,620
12.2.1 Duty Crew Common Areas - Full Repaint	Finishes/Furnishings	16	7	2028	\$14,000
12.2.2 Duty Crew Common Areas - Touchup Paint	Finishes/Furnishings	16	15	2036	\$14,000
12.2.3 Duty Crew Sleep Room Interiors - Refurbish	Finishes/Furnishings	10	3	2024	\$25,230
12.2.4 Duty Crew Kitchen Interiors - Refurbish	Finishes/Furnishings	10	9	2030	\$10,190
12.2.5 Duty Crew Laundry Interiors - Refurbish	Finishes/Furnishings	10	2	2023	\$2,040
12.2.6 Duty Crew Office/Training Areas - Refurbish	Finishes/Furnishings	15	4	2025	\$6,120
12.2.7 Duty Crew Restrooms - Refurbish	Finishes/Furnishings	10	. 2	2023	\$16,820



12.4.1   Ist Floor Interior Carpet Flooring - Replace   Finishes/Furnishings   24   13   2034   \$34,740   12.4.2 2nd Floor Interior Carpet Flooring - Replace   Finishes/Furnishings   16   5   2026   \$25,020   12.4.3   Ist Floor Resilient Flooring - Replace   Finishes/Furnishings   20   9   2030   \$2,350   12.4.4 2nd Floor Resilient Flooring - Replace   Finishes/Furnishings   15   4   2025   \$2,760   12.4.5   Ist Floor Sheet Flooring - Replace   Finishes/Furnishings   15   4   2025   \$32,810   12.4.5   Ist Floor Sheet Flooring - Replace   Finishes/Furnishings   15   4   2025   \$42,230   12.4.7   Ist Floor Sheet Flooring - Replace   Finishes/Furnishings   15   4   2025   \$42,230   12.4.7   Ist Floor Stained Concrete - Refurbish   Finishes/Furnishings   12   1   2022   \$15,440   12.6.1   Elevator Cab Interior - Remodel   Finishes/Furnishings   12   1   2022   \$15,440   12.6.1   Elevator - Major Upgrades   Elevator   40   29   2050   \$6,120   14.1.1   Elevator - Major Upgrades   Elevator   5   5   2026   \$5,610   15.2.1   Plumbing System - Contingency   Life Safety   5   3   2024   \$5,100   15.2.2   Plumbing System - Contingency   Life Safety   5   3   2024   \$5,100   15.3.1   Irrigation System - Contingency   Life Safety   3   1   2022   \$5,100   15.4.1   Fire Detection System - Maintenance   Life Safety   5   3   2024   \$2,550   15.4.2   Fire Sprinkler System - Maintenance   Life Safety   5   3   2024   \$2,550   15.4.2   Fire Sprinkler System - Maintenance   Life Safety   20   9   2030   \$16,600   15.6.1   Heat Recovery Unit - Replace   Life Safety   20   9   2030   \$16,600   15.6.2   Indirect Makeup AHU - Replace   Life Safety   20   9   2030   \$10,090   15.6.5   HVAC System - Contingency   Life Safety   20   9   2030   \$13,400   15.6.5   HVAC System - Contingency   Life Safety   5   3   2024   \$5,100   15.6.5   HVAC System - Contingency   Life Safety   5   3   2024   \$5,100   15.6.5   HVAC System - Contingency   Life Safety   5   3   2024   \$5,100   15.6.5   HVAC System - Contingency   Life Safety   5   3   2	COMPONENT DESCRIPTION		MAINT. CYCLE	REMAINING USEFUL LIFE	NEXT MAINT. YEAR	CURRENT REPLACEMENT COST
12.4.3 1st Floor Resilient Flooring - Replace         Finishes/Furnishings         20         9         2030         \$2,350           12.4.4 2nd Floor Resilient Flooring - Replace         Finishes/Furnishings         15         4         2025         \$2,760           12.4.5 1st Floor Sheet Flooring - Replace         Finishes/Furnishings         20         9         2030         \$32,810           12.4.6 2nd Floor Sheet Flooring - Replace         Finishes/Furnishings         15         4         2025         \$42,230           12.4.7 1st Floor Stained Concrete - Refurbish         Finishes/Furnishings         12         1         2022         \$15,440           12.6.1 Elevator Cab Interior - Remodel         Finishes/Furnishings         40         29         2050         \$6,120           14.1.1 Elevator - Major Upgrades         Elevator         40         29         2050         \$5,612           15.2.1 Plumbing System - Condingency         Life Safety         5         3         2024         \$5,100           15.2.2 Plumbing System - Contingency         Life Safety         60         49         2070         \$61,160           15.3.1 Irrigation System - Contingency         Life Safety         3         1         2022         \$5,100           15.4.2 Fire Sprinkler System - Maintenance	12.4.1 1st Floor Interior Carpet Flooring - Replace	Finishes/Furnishings	24	13	2034	\$34,740
12.4.4 2nd Floor Resilient Flooring - Replace       Finishes/Furnishings       15       4       2025       \$2,760         12.4.5 1st Floor Sheet Flooring - Replace       Finishes/Furnishings       20       9       2030       \$32,810         12.4.6 2nd Floor Sheet Flooring - Replace       Finishes/Furnishings       15       4       2025       \$42,230         12.4.7 1st Floor Stained Concrete - Refurbish       Finishes/Furnishings       12       1       2022       \$15,440         12.6.1 Elevator Cab Interior - Remodel       Finishes/Furnishings       40       29       2050       \$6,120         14.1.1 Elevator - Major Upgrades       Elevator       40       29       2050       \$127,420         14.1.2 Elevators - S Year Load Test       Elevator       5       5       2026       \$5,610         15.2.1 Plumbing System - Contingency       Life Safety       5       3       2024       \$5,100         15.2.2 Plumbing Supply Lines - Replace       Life Safety       60       49       2070       \$61,160         15.3.1 Irrigation System - Contingency       Life Safety       10       8       2029       \$10,500         15.4.2 Fire Sprinkler System - Maintenance       Life Safety       5       3       2024       \$2,550         15.5.1 Wa	12.4.2 2nd Floor Interior Carpet Flooring - Replace	Finishes/Furnishings	16	5	2026	\$25,020
12.4.5 1st Floor Sheet Flooring - Replace	12.4.3 1st Floor Resilient Flooring - Replace	Finishes/Furnishings	20	9	2030	\$2,350
12.4.6 2nd Floor Sheet Flooring - Replace	12.4.4 2nd Floor Resilient Flooring - Replace	Finishes/Furnishings	15	4	2025	\$2,760
12.4.7 1st Floor Stained Concrete - Refurbish         Finishes/Furnishings         12         1         2022         \$15,440           12.6.1 Elevator Cab Interior - Remodel         Finishes/Furnishings         40         29         2050         \$6,120           14.1.1 Elevator - Major Upgrades         Elevator         40         29         2050         \$127,420           14.1.2 Elevators - 5 Year Load Test         Elevator         5         5         2026         \$5,610           15.2.1 Plumbing System - Contingency         Life Safety         5         3         2024         \$5,100           15.2.2 Plumbing Supply Lines - Replace         Life Safety         60         49         2070         \$61,160           15.3.1 Irrigation System - Contingency         Life Safety         10         8         2029         \$10,500           15.3.2 Storm Water System - Contingency         Life Safety         3         1         2022         \$5,100           15.4.1 Fire Detection System - Maintenance         Life Safety         5         3         2024         \$2,550           15.4.2 Fire Sprinkler System - Maintenance         Life Safety         5         3         2024         \$2,550           15.5.1 Water Heater - Contingency         Life Safety         20         9	12.4.5 1st Floor Sheet Flooring - Replace	Finishes/Furnishings	20	9	2030	\$32,810
12.6.1 Elevator Cab Interior - Remodel   Finishes/Furnishings   40   29   2050   \$6,120     14.1.1 Elevator - Major Upgrades   Elevator   40   29   2050   \$127,420     14.1.2 Elevators - 5 Year Load Test   Elevator   5   5   2026   \$5,610     15.2.1 Plumbing System - Contingency   Life Safety   5   3   2024   \$5,100     15.2.2 Plumbing Supply Lines - Replace   Life Safety   60   49   2070   \$61,160     15.3.1 Irrigation System - Contingency   Life Safety   10   8   2029   \$10,500     15.3.2 Storm Water System - Contingency   Life Safety   3   1   2022   \$5,100     15.3.3 Irrigation System - Contingency   Life Safety   5   3   2024   \$2,550     15.3.2 Fire Detection System - Maintenance   Life Safety   5   3   2024   \$2,550     15.4.2 Fire Sprinkler System - Maintenance   Life Safety   5   4   2025   \$8,160     15.5.1 Water Heater - Contingency   Life Safety   20   9   2030   \$16,600     15.6.1 Heat Recovery Unit - Replace   Life Safety   25   14   2035   \$13,460     15.6.2 Indirect Makeup AHU - Replace   Life Safety   20   9   2030   \$10,090     15.6.3 Furnace - Replace   Life Safety   20   9   2030   \$2,240     15.6.4 VRF Heat Pump - Contingency   Life Safety   5   3   2024   \$5,100     15.6.6 Infrared Heaters - Replace   Life Safety   5   3   2024   \$5,100     15.7.1 Exhaust Fans - Contingency   Life Safety   5   3   2024   \$7,770     16.3.1 Electrical System - Contingency   Life Safety   5   3   2024   \$7,770     16.3.1 Electrical System - Contingency   Life Safety   5   3   2024   \$7,770     16.3.2 Generator Fuel Tank - Replace   Life Safety   30   19   2040   \$8,970     16.6.3 Exterior Light Fixtures - Replace   Life Safety   10   9   2030   \$10,190     16.6.1 Exterior Light Fixtures - Replace   Life Safety   20   9   2030   \$3,810     16.6.1 Exterior Light Fixtures - Replace   Life Safety   20   9   2030   \$3,810     16.6.1 Exterior Light Fixtures - Replace   Life Safety   20   9   2030   \$3,810     16.6.1 Exterior Light Fixtures - Replace   Life Safety   20   9   2030   \$3,810     16.6.1 Exterior Light	12.4.6 2nd Floor Sheet Flooring - Replace	Finishes/Furnishings	15	4	2025	\$42,230
14.1.1   Elevator - Major Upgrades	12.4.7 1st Floor Stained Concrete - Refurbish	Finishes/Furnishings	12	1	2022	\$15,440
14.1.2 Elevators - 5 Year Load Test         Elevator         5         2026         \$5,610           15.2.1 Plumbing System - Contingency         Life Safety         5         3         2024         \$5,100           15.2.2 Plumbing Supply Lines - Replace         Life Safety         60         49         2070         \$61,160           15.3.1 Irrigation System - Contingency         Life Safety         10         8         2029         \$10,500           15.3.2 Storm Water System - Contingency         Life Safety         3         1         2022         \$5,100           15.4.1 Fire Detection System - Maintenance         Life Safety         5         3         2024         \$2,550           15.4.2 Fire Sprinkler System - Maintenance         Life Safety         15         4         2025         \$8,160           15.5.1 Water Heater - Contingency         Life Safety         20         9         2030         \$16,600           15.6.1 Heat Recovery Unit - Replace         Life Safety         25         14         2035         \$13,460           15.6.2 Indirect Makeup AHU - Replace         Life Safety         20         9         2030         \$10,090           15.6.3 Furnace - Replace         Life Safety         20         9         2030         \$2,240	12.6.1 Elevator Cab Interior - Remodel	Finishes/Furnishings	40	29	2050	\$6,120
15.2.1 Plumbing System - Contingency         Life Safety         5         3         2024         \$5,100           15.2.2 Plumbing Supply Lines - Replace         Life Safety         60         49         2070         \$61,160           15.3.1 Irrigation System - Contingency         Life Safety         10         8         2029         \$10,500           15.3.2 Storm Water System - Contingency         Life Safety         3         1         2022         \$5,100           15.4.1 Fire Detection System - Maintenance         Life Safety         5         3         2024         \$2,550           15.4.2 Fire Sprinkler System - Maintenance         Life Safety         15         4         2025         \$8,160           15.5.1 Water Heater - Contingency         Life Safety         20         9         2030         \$16,600           15.6.1 Heat Recovery Unit - Replace         Life Safety         25         14         2035         \$13,460           15.6.2 Indirect Makeup AHU - Replace         Life Safety         20         9         2030         \$10,090           15.6.3 Furnace - Replace         Life Safety         20         9         2030         \$2,240           15.6.4 VRF Heat Pump - Contingency         Life Safety         6         4         2025         \$19,7	14.1.1 Elevator - Major Upgrades	Elevator	40	29	2050	\$127,420
15.2.2 Plumbing Supply Lines - Replace         Life Safety         60         49         2070         \$61,160           15.3.1 Irrigation System - Contingency         Life Safety         10         8         2029         \$10,500           15.3.2 Storm Water System - Contingency         Life Safety         3         1         2022         \$5,100           15.4.1 Fire Detection System - Maintenance         Life Safety         5         3         2024         \$2,550           15.4.2 Fire Sprinkler System - Maintenance         Life Safety         15         4         2025         \$8,160           15.5.1 Water Heater - Contingency         Life Safety         20         9         2030         \$16,600           15.6.1 Heat Recovery Unit - Replace         Life Safety         20         9         2030         \$13,460           15.6.2 Indirect Makeup AHU - Replace         Life Safety         20         9         2030         \$10,090           15.6.3 Furnace - Replace         Life Safety         20         9         2030         \$2,240           15.6.4 VRF Heat Pump - Contingency         Life Safety         6         4         2025         \$19,700           15.6.5 HVAC System - Contingency         Life Safety         5         3         2024         \$5,100 <td>14.1.2 Elevators - 5 Year Load Test</td> <td>Elevator</td> <td>5</td> <td>5</td> <td>2026</td> <td>\$5,610</td>	14.1.2 Elevators - 5 Year Load Test	Elevator	5	5	2026	\$5,610
15.3.1 Irrigation System - Contingency       Life Safety       10       8       2029       \$10,500         15.3.2 Storm Water System - Contingency       Life Safety       3       1       2022       \$5,100         15.4.1 Fire Detection System - Maintenance       Life Safety       5       3       2024       \$2,550         15.4.2 Fire Sprinkler System - Maintenance       Life Safety       15       4       2025       \$8,160         15.5.1 Water Heater - Contingency       Life Safety       20       9       2030       \$16,600         15.6.1 Heat Recovery Unit - Replace       Life Safety       25       14       2035       \$13,460         15.6.2 Indirect Makeup AHU - Replace       Life Safety       20       9       2030       \$10,090         15.6.3 Furnace - Replace       Life Safety       20       9       2030       \$2,240         15.6.4 VRF Heat Pump - Contingency       Life Safety       6       4       2025       \$19,700         15.6.5 HVAC System - Contingency       Life Safety       5       3       2024       \$5,100         15.6.6 Infrared Heaters - Replace       Life Safety       5       3       2024       \$7,770         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3 <td>15.2.1 Plumbing System - Contingency</td> <td>Life Safety</td> <td>5</td> <td>3</td> <td>2024</td> <td>\$5,100</td>	15.2.1 Plumbing System - Contingency	Life Safety	5	3	2024	\$5,100
15.3.2 Storm Water System - Contingency       Life Safety       3       1       2022       \$5,100         15.4.1 Fire Detection System - Maintenance       Life Safety       5       3       2024       \$2,550         15.4.2 Fire Sprinkler System - Maintenance       Life Safety       15       4       2025       \$8,160         15.5.1 Water Heater - Contingency       Life Safety       20       9       2030       \$16,600         15.6.1 Heat Recovery Unit - Replace       Life Safety       25       14       2035       \$13,460         15.6.2 Indirect Makeup AHU - Replace       Life Safety       20       9       2030       \$10,090         15.6.3 Furnace - Replace       Life Safety       20       9       2030       \$2,240         15.6.4 VRF Heat Pump - Contingency       Life Safety       6       4       2025       \$19,700         15.6.5 HVAC System - Contingency       Life Safety       5       3       2024       \$5,100         15.6.6 Infrared Heaters - Replace       Life Safety       5       3       2024       \$7,770         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.5.1 Emergency Generator - Replace       Life Safety       30       19	15.2.2 Plumbing Supply Lines - Replace	Life Safety	60	49	2070	\$61,160
15.4.1 Fire Detection System - Maintenance       Life Safety       5       3       2024       \$2,550         15.4.2 Fire Sprinkler System - Maintenance       Life Safety       15       4       2025       \$8,160         15.5.1 Water Heater - Contingency       Life Safety       20       9       2030       \$16,600         15.6.1 Heat Recovery Unit - Replace       Life Safety       25       14       2035       \$13,460         15.6.2 Indirect Makeup AHU - Replace       Life Safety       20       9       2030       \$10,090         15.6.3 Furnace - Replace       Life Safety       20       9       2030       \$2,240         15.6.4 VRF Heat Pump - Contingency       Life Safety       6       4       2025       \$19,700         15.6.5 HVAC System - Contingency       Life Safety       5       3       2024       \$5,100         15.6.6 Infrared Heaters - Replace       Life Safety       20       9       2030       \$15,470         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19 <td>15.3.1 Irrigation System - Contingency</td> <td>Life Safety</td> <td>10</td> <td>8</td> <td>2029</td> <td>\$10,500</td>	15.3.1 Irrigation System - Contingency	Life Safety	10	8	2029	\$10,500
15.4.2 Fire Sprinkler System - Maintenance       Life Safety       15       4       2025       \$8,160         15.5.1 Water Heater - Contingency       Life Safety       20       9       2030       \$16,600         15.6.1 Heat Recovery Unit - Replace       Life Safety       25       14       2035       \$13,460         15.6.2 Indirect Makeup AHU - Replace       Life Safety       20       9       2030       \$10,090         15.6.3 Furnace - Replace       Life Safety       20       9       2030       \$2,240         15.6.4 VRF Heat Pump - Contingency       Life Safety       6       4       2025       \$19,700         15.6.5 HVAC System - Contingency       Life Safety       5       3       2024       \$5,100         15.6.6 Infrared Heaters - Replace       Life Safety       20       9       2030       \$15,470         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9 <td>15.3.2 Storm Water System - Contingency</td> <td>Life Safety</td> <td>3</td> <td>1</td> <td>2022</td> <td>\$5,100</td>	15.3.2 Storm Water System - Contingency	Life Safety	3	1	2022	\$5,100
15.5.1 Water Heater - Contingency       Life Safety       20       9       2030       \$16,600         15.6.1 Heat Recovery Unit - Replace       Life Safety       25       14       2035       \$13,460         15.6.2 Indirect Makeup AHU - Replace       Life Safety       20       9       2030       \$10,090         15.6.3 Furnace - Replace       Life Safety       20       9       2030       \$2,240         15.6.4 VRF Heat Pump - Contingency       Life Safety       6       4       2025       \$19,700         15.6.5 HVAC System - Contingency       Life Safety       5       3       2024       \$5,100         15.6.6 Infrared Heaters - Replace       Life Safety       20       9       2030       \$15,470         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9	15.4.1 Fire Detection System - Maintenance	Life Safety	5	3	2024	\$2,550
15.6.1 Heat Recovery Unit - Replace       Life Safety       25       14       2035       \$13,460         15.6.2 Indirect Makeup AHU - Replace       Life Safety       20       9       2030       \$10,090         15.6.3 Furnace - Replace       Life Safety       20       9       2030       \$2,240         15.6.4 VRF Heat Pump - Contingency       Life Safety       6       4       2025       \$19,700         15.6.5 HVAC System - Contingency       Life Safety       5       3       2024       \$5,100         15.6.6 Infrared Heaters - Replace       Life Safety       20       9       2030       \$15,470         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.1 Emergency Generator - Replace       Life Safety       30       19       2040       \$20,180         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9	15.4.2 Fire Sprinkler System - Maintenance	Life Safety	15	4	2025	\$8,160
15.6.2 Indirect Makeup AHU - Replace       Life Safety       20       9       2030       \$10,090         15.6.3 Furnace - Replace       Life Safety       20       9       2030       \$2,240         15.6.4 VRF Heat Pump - Contingency       Life Safety       6       4       2025       \$19,700         15.6.5 HVAC System - Contingency       Life Safety       5       3       2024       \$5,100         15.6.6 Infrared Heaters - Replace       Life Safety       20       9       2030       \$15,470         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.1 Emergency Generator - Replace       Life Safety       30       19       2040       \$20,180         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9       2030       \$3,810	15.5.1 Water Heater - Contingency	Life Safety	20	9	2030	\$16,600
15.6.3 Furnace - Replace       Life Safety       20       9       2030       \$2,240         15.6.4 VRF Heat Pump - Contingency       Life Safety       6       4       2025       \$19,700         15.6.5 HVAC System - Contingency       Life Safety       5       3       2024       \$5,100         15.6.6 Infrared Heaters - Replace       Life Safety       20       9       2030       \$15,470         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.1 Emergency Generator - Replace       Life Safety       30       19       2040       \$20,180         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9       2030       \$3,810	15.6.1 Heat Recovery Unit - Replace	Life Safety	25	14	2035	\$13,460
15.6.4 VRF Heat Pump - Contingency       Life Safety       6       4       2025       \$19,700         15.6.5 HVAC System - Contingency       Life Safety       5       3       2024       \$5,100         15.6.6 Infrared Heaters - Replace       Life Safety       20       9       2030       \$15,470         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.1 Emergency Generator - Replace       Life Safety       30       19       2040       \$20,180         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9       2030       \$3,810	15.6.2 Indirect Makeup AHU - Replace	Life Safety	20	9	2030	\$10,090
15.6.5 HVAC System - Contingency       Life Safety       5       3       2024       \$5,100         15.6.6 Infrared Heaters - Replace       Life Safety       20       9       2030       \$15,470         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.1 Emergency Generator - Replace       Life Safety       30       19       2040       \$20,180         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9       2030       \$3,810	15.6.3 Furnace - Replace	Life Safety	20	9	2030	\$2,240
15.6.6 Infrared Heaters - Replace       Life Safety       20       9       2030       \$15,470         15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.1 Emergency Generator - Replace       Life Safety       30       19       2040       \$20,180         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9       2030       \$3,810	15.6.4 VRF Heat Pump - Contingency	Life Safety	6	4	2025	\$19,700
15.7.1 Exhaust Fans - Contingency       Life Safety       5       3       2024       \$7,770         16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.1 Emergency Generator - Replace       Life Safety       30       19       2040       \$20,180         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9       2030       \$3,810	15.6.5 HVAC System - Contingency	Life Safety	5	3	2024	\$5,100
16.3.1 Electrical System - Contingency       Life Safety       10       8       2029       \$5,100         16.5.1 Emergency Generator - Replace       Life Safety       30       19       2040       \$20,180         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9       2030       \$3,810	15.6.6 Infrared Heaters - Replace	Life Safety	20	9	2030	\$15,470
16.5.1 Emergency Generator - Replace       Life Safety       30       19       2040       \$20,180         16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9       2030       \$3,810	15.7.1 Exhaust Fans - Contingency	Life Safety	5	3	2024	\$7,770
16.5.2 Generator Fuel Tank - Replace       Life Safety       30       19       2040       \$8,970         16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9       2030       \$3,810	16.3.1 Electrical System - Contingency	Life Safety	10	8	2029	\$5,100
16.6.1 Exterior Light Fixtures - Replace       Life Safety       10       9       2030       \$10,190         16.8.1 Fire Control Panel - Replace       Life Safety       20       9       2030       \$3,810	16.5.1 Emergency Generator - Replace	Life Safety	30	19	2040	\$20,180
16.8.1 Fire Control Panel - Replace Life Safety 20 9 2030 \$3,810	16.5.2 Generator Fuel Tank - Replace	Life Safety	30	19	2040	\$8,970
	16.6.1 Exterior Light Fixtures - Replace	Life Safety	10	9	2030	\$10,190
16.9.1 Audio/Visual Equipment - Upgrades Life Safety 15 4 2025 \$78,490	16.8.1 Fire Control Panel - Replace	Life Safety	20	9	2030	\$3,810
	16.9.1 Audio/Visual Equipment - Upgrades	Life Safety	15	4	2025	\$78,490



COMPONENT DESCRIPTION		MAINT. CYCLE	REMAINING USEFUL LIFE	NEXT MAINT. YEAR	CURRENT REPLACEMENT COST
17.1.1 Fireblast 451 - Maintenance	Life Safety	10	9	2030	\$10,190
18.1.1 Security / Surveillance System - Replace	Security	10	1	2022	\$16,310
2.6.1 Asphalt Paving - Repair	Site	6	1	2022	\$4,120
2.6.2 Asphalt Pavement- Seal Coat & Restripe	Site	6	1	2022	\$5,150
2.7.4 Privacy Wood Fence - Replace	Site	15	8	2029	\$6,190
2.7.5 Chain-link Fence - Repair	Site	40	18	2039	\$4,360
2.9.2 Landscaping - Maintenance	Site	8	6	2027	\$5,100
2.9.3 Wetland - Maintenance	Site	15	13	2034	\$10,190
3.3.3 Exterior Concrete Paving - Repair	Concrete	6	2	2023	\$3,260
6.1.2 Garbage Bin Enclosure - Contingency	Ext Envelope	20	18	2039	\$1,530
6.4.5 Brick Siding - Maintenance	Ext Envelope	20	8	2029	\$13,080
7.3.2 Gutters & Downspouts - Replace	Ext Envelope	20	11	2032	\$3,220
7.4.7 Metal Roof - Replace	Ext Envelope	40	11	2032	\$61,220
7.4.8 Roof Inspection & Minor Repair	Ext Envelope	5	5	2026	\$3,060
8.2.8 Common Doors & Hardware - Maintenance	Ext Envelope	10	10	2031	\$3,380
8.2.6 Overhead Bay Door - Replace	Ext Envelope	20	8	2029	\$5,810
8.2.7 Bay Door Operator - Contingency	Ext Envelope	20	18	2039	\$56,070
8.3.3 Storefront System - Maintenance	Ext Envelope	10	8	2029	\$19,620
8.5.2 Aluminum Framed Windows - Replace	Ext Envelope	45	16	2037	\$30,580
9.8.5 Front Entry Steel Framed Structure - Paint	Ext Envelope	10	2	2023	\$2,290
10.4.2 Exterior Signage - Refurbish	Specialties	15	1	2022	\$2,550
11.4.3 Kitchen Equipment - Contingency	Equipment	5	6	2027	\$14,020
11.6.4 Laundry Equipment - Contingency	Equipment	5	3	2024	\$3,360
11.6.5 Station Extractor - Bunker Gear Washer	Equipment	12	5	2026	\$8,970
11.8.2 Air Compressor - Replace	Equipment	12	11	2032	\$40,840
12.3.1 Interior Concrete Floor - Refurbish	Finishes/Furnishings	25	24	2045	\$8,050
12.3.2 Apparatus Bay - Refurbish	Finishes/Furnishings	10	10	2031	\$13,770
12.3.3 Hallway & Stairwell Walls & Ceiling - Paint	Finishes/Furnishings	25	10	2031	\$7,140
12.3.4 Front Reception Desk & Office - Remodel	Finishes/Furnishings	10	11	2032	\$25,480
12.3.5 Kitchen - Remodel	Finishes/Furnishings	10	10	2031	\$10,190



COMPONENT DESCRIPTION		MAINT. CYCLE	REMAINING USEFUL LIFE	NEXT MAINT. YEAR	CURRENT REPLACEMENT COST
12.3.6 Day / Dining Room - Remodel	Finishes/Furnishings	15	10	2031	\$15,290
12.3.7 Duty Crew Sleep Rooms - Refurbish	Finishes/Furnishings	20	8	2029	\$5,100
12.3.8 Exercise Room - Refurbish	Finishes/Furnishings	15	14	2035	\$30,580
12.3.9 Locker & Restroom - Refurbish	Finishes/Furnishings	15	5	2026	\$2,040
12.3.10 Laundry & Utility Room - Refurbish	Finishes/Furnishings	10	8	2029	\$10,190
15.2.3 Plumbing System - Contingency	Life Safety	10	4	2025	\$5,100
15.3.3 Irrigation System - Contingency	Life Safety	5	2	2023	\$2,550
15.4.3 Fire Detection System - Maintenance	Life Safety	15	5	2026	\$5,100
15.4.4 Wet & Dry Fire Sprinkler System - Contingency	Life Safety	10	8	2029	\$5,610
15.5.2 Water Heater - Replace	Life Safety	15	2	2023	\$8,070
15.6.7 HVAC Units - Replace	Life Safety	15	6	2027	\$11,210
15.6.8 Furnace - Replace	Life Safety	10	4	2025	\$14,020
15.6.9 Infrared Overhead Heaters - Replace	Life Safety	10	8	2029	\$5,100
15.7.2 Exhaust Fans - Contingency	Life Safety	5	3	2024	\$4,440
16.3.2 Electrical System - Contingency	Life Safety	20	8	2029	\$6,730
16.5.3 Emergency Generator - Contingency	Life Safety	20	18	2039	\$8,970
16.6.2 Exterior Light Fixtures - Replace	Life Safety	15	1	2022	\$2,800
16.8.2 Fire Control Panel - Replace	Life Safety	20	8	2029	\$3,920
18.1.2 Security / Surveillance System - Upgrade	Security	10	1	2022	\$15,290



#### COMPONENTS EXCLUDED FROM THIS STUDY

#### **OPERATING BUDGET**

The following components may qualify for inclusion in the Reserve Study, but are excluded because the Organization elects to maintain them with funds from the operating budget:

- acoustic ceiling tiles
- asphalt walkway repairs
- BBQ grill
- diesel tank @ Station 57
- · glazing replacement

- gym equipment
- interior light fixtures
- IT equipment
- tower wood trim & metal shutters
- rubber stair treads @ Station 57

#### ADJUSTMENTS TO COMPONENT RESERVE RECOMMENDATIONS

This reserve study provides updated information on the components from prior reserve studies. All cost estimates were adjusted to reflect the actual inflation rate for construction work in Washington State, and costs actually experienced by Northshore Fire Department or others in the area. To complete the report, we were provided with a record of recent expenditures on reserve components.

We use those figures, where applicable, for updating component cost projections, applying an appropriate inflation factor. Where updated figures from actual work performed are not available, cost projections from the previous reserve study are updated for inflation and rounded to the nearest \$10, using the RS Means 2019 to 2021 inflation figure of 1.94% for construction work.



#### **FIVE YEARS AT A GLANCE (2022 - 2026)**

The following reserve funded expenses are expected to occur in the next five years at Northshore Fire Department.

2022 (YEAR 1) ANTICIPATED MAINT	ENANCE	Е	STIMATED COST
Stn.51 2.4.2 Concrete - Repaint	Stalls & Curbs		\$1,768
Stn.51 2.7.3 Gate Operator - Ma	intenance		\$1,747
Stn.51 3.3.1 Concrete Walkways	- Repair		\$5,782
Stn.51 6.4.3 Fiber Cement Board	d Siding - Repair		\$6,510
Stn.51 8.2.5 Doors & Hardware	- Maintenance		\$3,796
Stn.51 9.8.1 Cedar Wood Siding	- Maintenance		\$23,192
Stn.51 9.8.2 Concrete Siding - M	1aintenance		\$5,366
Stn.51 9.8.4 Fiber Cement Boar	d Siding - Caulk & Pain	t	\$22,495
Stn.51 11.6.2 Unimac Gear Extra	ctor - Replace		\$9,329
Stn.51 11.6.3 Ramair Gear Dryer	- Replace		\$11,658
Stn.51 12.1.7 Public Meeting Roo	m - Refurbish		\$15,902
Stn.51 12.2.4 Duty Crew Kitchen	Interiors - Refurbish		\$1,560
Stn.51 12.4.7 1st Floor Stained C	oncrete - Refurbish		\$16,058
Stn.51 15.3.2 Storm Water Syste	em - Contingency		\$5,304
Stn.51 18.1.1 Security / Surveillar	nce System - Replace		\$16,962
Stn.57 2.6.1 Asphalt Paving - Re	epair		\$4,285
Stn.57 2.6.2 Asphalt Pavement-	Seal Coat & Restripe		\$5,356
Stn.57 16.6.2 Exterior Light Fixt	ures - Replace		\$2,912
Stn.57 18.1.2 Security / Surveilla	nce System - Upgrade		\$15,902
<b>Total Estimated Expenses for 2</b>	2022 (YEAR 1)		\$175,884
Primary Expenses	\$69,575	40%	
Secondary Expenses	\$106,309	60%	

2023 (YEAR 2) ANTICIPATED MA	INTENANCE		ESTIMATED COST
Stn.51 8.2.1 Folding Bay Door	rs & Hardware - Mainte	nance	\$6,009
Stn.51 8.2.3 Overhead Bay D	oor Operator - Conting	ency	\$13,936
Stn.51 10.4.1 Exterior Signage	e - Refurbish		\$2,732
Stn.51 12.2.5 Duty Crew Laun	dry Interiors - Refurbis	h	\$2,185
Stn.51 12.2.7 Duty Crew Rest	rooms - Refurbish		\$18,018
Stn.57 3.3.3 Exterior Concre	te Paving - Repair		\$3,492
Stn.57 9.8.5 Front Entry Stee	el Framed Structure - P	aint	\$2,453
Stn.57 15.3.3 Irrigation Syste	m - Contingency		\$2,732
Stn.57 15.5.2 Water Heater -	Replace		\$8,645
<b>Total Estimated Expenses fo</b>	or 2023 (YEAR 2)		\$60,202
Primary Expenses	\$33,775	56%	
Secondary Expenses	\$26,427	44%	



2024	(YEAR 3) ANTICIPATED MAINTEN	ANCE	EST	IMATED COST
	Stn.51 2.4.1 Concrete - Paving Repai	rs		\$20,467
	Stn.51 2.7.2 Prefinished Metal Fence	& Gates - Maintenand	ce	\$8,209
	Stn.51 2.8.1 Wood Benches - Mainter	nance		\$2,471
	Stn.51 7.4.6 Roof Inspection & Minor	Repair		\$6,896
	Stn.51 11.4.2 Duty Crew Kitchen Equ	ipment - Contingency	′	\$16,870
	Stn.51 11.6.1 Laundry Equipment - Co	ontingency		\$4,204
	Stn.51 12.1.4 Bunk Gear Storage - Re	furbish		\$9,003
	Stn.51 12.2.3 Duty Crew Sleep Room	Interiors - Refurbish		\$27,837
	Stn.51 15.2.1 Plumbing System - Con	tingency		\$5,627
	Stn.51 15.4.1 Fire Detection System -	Maintenance		\$2,814
	Stn.51 15.6.5 HVAC System - Conting	gency		\$5,627
	Stn.51 15.7.1 Exhaust Fans - Continge	ency		\$8,573
	Stn.57 11.6.4 Laundry Equipment - C	Contingency		\$3,707
	Stn.57 15.7.2 Exhaust Fans - Conting	gency		\$4,899
	<b>Total Estimated Expenses for 2024</b>	(YEAR 3)		\$127,204
	Primary Expenses	\$31.136	27%	



2025 (YEAR 4) ANTICIPATED MA	INTENANCE	E	ESTIMATED COST					
Stn.51 2.7.3 Gate Operator - N	Maintenance		\$1,909					
Stn.51 3.3.2 Cast Concrete Re	etaining Walls - Repair		\$18,388					
Stn.51 6.1.1 Garbage Bin Enclo	Stn.51 6.1.1 Garbage Bin Enclosure - Repair							
Stn.51 7.1.1 Sealant Joints - Re	eplace		\$25,990					
Stn.51 8.3.1 Storefront System	n - Maintenance		\$8,887					
Stn.51 9.8.3 Exterior Steel - M	Stn.51 9.8.3 Exterior Steel - Maintenance							
Stn.51 11.8.1 Air Compressor S	Stn.51 11.8.1 Air Compressor System - Replace							
Stn.51 12.2.6 Duty Crew Office	Stn.51 12.2.6 Duty Crew Office/Training Areas - Refurbish							
Stn.51 12.4.4 2nd Floor Resilie	Stn.51 12.4.4 2nd Floor Resilient Flooring - Replace							
Stn.51 12.4.6 2nd Floor Sheet	Flooring - Replace		\$47,992					
Stn.51 15.3.2 Storm Water Sys	stem - Contingency		\$5,796					
Stn.51 15.4.2 Fire Sprinkler Sy	stem - Maintenance		\$9,273					
Stn.51 15.6.4 VRF Heat Pump	- Contingency		\$22,388					
Stn.51 16.9.1 Audio/Visual Equ	uipment - Upgrades		\$89,199					
Stn.57 15.2.3 Plumbing Syster	m - Contingency		\$5,796					
Stn.57 15.6.8 Furnace - Repla	ce		\$15,933					
<b>Total Estimated Expenses fo</b>	Total Estimated Expenses for 2025 (YEAR 4)							
Primary Expenses	\$195,433	69%						
Secondary Expenses	\$88,575	31%						

2026	(YEAR 5) ANTICIPATED MAINTEN	ANCE	E	STIMATED COST
	Stn.51 12.1.2 Admin Common Areas	- Repaint		\$20,613
	Stn.51 12.1.5 Admin Offices - Refurb		\$29,825	
	Stn.51 12.4.2 2nd Floor Interior Carp	е	\$29,287	
	Stn.51 14.1.2 Elevators - 5 Year Load		\$6,567	
	Stn.57 7.4.8 Roof Inspection & Mind		\$3,582	
	Stn.57 11.6.5 Station Extractor - Bur	nker Gear Washer		\$10,500
	Stn.57 12.3.9 Locker & Restroom - F	Refurbish		\$2,388
	Stn.57 15.4.3 Fire Detection System	n - Maintenance		\$5,970
	<b>Total Estimated Expenses for 202</b>		\$108,732	
	Primary Expenses	\$16,119	15%	
	Secondary Expenses	\$92,613	85%	



#### PROJECTED RESERVE ACCOUNT BALANCES

FOR EACH FUNDING PLAN OVER NEXT 5 YEARS

\$182,300 REC	OMMENDED (T	HRESHOLD) F	UNDING PLAN		
YEAR	ANNUAL RESERVE CONTRIBUTION	SPECIAL ASSESSMENT	YEAR END RESERVE BALANCE	PERCENT FUNDED	SPECIAL ASSESSMENT RISK LEVEL
1 (2022)	\$182,300	\$0	\$535,010	48%	Moderate Risk
2 (2023)	\$187,769	\$0	\$674,552	54%	Moderate Risk
3 (2024)	\$193,402	\$0	\$754,903	57%	Moderate Risk
4 (2025)	\$199,204	\$0	\$684,350	54%	Moderate Risk
5 (2026)	\$205,180	\$0	\$795,449	58%	Moderate Risk
\$185,300 CUF	RRENT FUNDING	G PLAN			
YEAR	ANNUAL RESERVE CONTRIBUTION	SPECIAL ASSESSMENT	YEAR END RESERVE BALANCE	PERCENT FUNDED	SPECIAL ASSESSMENT RISK LEVEL
1 (2022)	\$185,300	\$0	\$538,016	48%	Moderate Risk
2 (2023)	\$190,859	\$0	\$680,741	54%	Moderate Risk
3 (2024)	\$196,585	\$0	\$764,430	57%	Moderate Risk
4 (2025)	\$202,482	\$0	\$697,379	55%	Moderate Risk
5 (2026)	\$208,557	\$0	\$812,152	59%	Moderate Risk
\$152,600 BAS	ELINE FUNDIN	G PLAN			
\$152,600 BAS	ELINE FUNDING ANNUAL RESERVE CONTRIBUTION	G PLAN  SPECIAL ASSESSMENT	YEAR END RESERVE BALANCE	PERCENT FUNDED	SPECIAL ASSESSMENT RISK LEVEL
	ANNUAL RESERVE	SPECIAL	RESERVE		
YEAR	ANNUAL RESERVE CONTRIBUTION	SPECIAL ASSESSMENT	RESERVE BALANCE	FUNDED	RISK LEVEL
YEAR 1 (2022)	ANNUAL RESERVE CONTRIBUTION \$152,600	SPECIAL ASSESSMENT \$0	RESERVE BALANCE \$505,234	FUNDED 45%	RISK LEVEL  Moderate Risk
YEAR 1 (2022) 2 (2023)	ANNUAL RESERVE CONTRIBUTION \$152,600 \$157,178	SPECIAL ASSESSMENT \$0 \$0	RESERVE BALANCE \$505,234 \$613,285	<b>FUNDED</b> 45% 49%	RISK LEVEL  Moderate Risk  Moderate Risk
YEAR 1 (2022) 2 (2023) 3 (2024)	ANNUAL RESERVE CONTRIBUTION \$152,600 \$157,178 \$161,893	SPECIAL ASSESSMENT \$0 \$0 \$0	\$505,234 \$613,285 \$660,588	45% 49% 50%	Moderate Risk Moderate Risk Moderate Risk
1 (2022) 2 (2023) 3 (2024) 4 (2025) 5 (2026)	ANNUAL RESERVE CONTRIBUTION \$152,600 \$157,178 \$161,893 \$166,750	SPECIAL ASSESSMENT  \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$505,234 \$613,285 \$660,588 \$555,370	45% 49% 50% 44%	Moderate Risk Moderate Risk Moderate Risk Moderate Risk Moderate Risk
1 (2022) 2 (2023) 3 (2024) 4 (2025) 5 (2026)	ANNUAL RESERVE CONTRIBUTION \$152,600 \$157,178 \$161,893 \$166,750 \$171,753	SPECIAL ASSESSMENT  \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$505,234 \$613,285 \$660,588 \$555,370	45% 49% 50% 44%	Moderate Risk Moderate Risk Moderate Risk Moderate Risk Moderate Risk
1 (2022) 2 (2023) 3 (2024) 4 (2025) 5 (2026) \$188,000 FUL	ANNUAL RESERVE CONTRIBUTION \$152,600 \$157,178 \$161,893 \$166,750 \$171,753 LL FUNDING PLANNUAL RESERVE	SPECIAL ASSESSMENT  \$0 \$0 \$0 \$0 \$0 AN	\$505,234 \$613,285 \$660,588 \$555,370 \$630,130 YEAR END RESERVE	45% 49% 50% 44% 46%	Moderate Risk Moderate Risk Moderate Risk Moderate Risk Moderate Risk Moderate Risk
1 (2022) 2 (2023) 3 (2024) 4 (2025) 5 (2026) \$188,000 FULL YEAR	ANNUAL RESERVE CONTRIBUTION \$152,600 \$157,178 \$161,893 \$166,750 \$171,753  LL FUNDING PL. ANNUAL RESERVE CONTRIBUTION	SPECIAL ASSESSMENT  \$0 \$0 \$0 \$0 \$0 \$0 AN  SPECIAL ASSESSMENT	\$505,234 \$613,285 \$660,588 \$555,370 \$630,130 YEAR END RESERVE BALANCE	45% 49% 50% 44% 46% PERCENT FUNDED	Moderate Risk Moderate Risk Moderate Risk Moderate Risk Moderate Risk Moderate Risk SPECIAL ASSESSMENT RISK LEVEL
1 (2022) 2 (2023) 3 (2024) 4 (2025) 5 (2026) \$188,000 FUI YEAR	ANNUAL RESERVE CONTRIBUTION \$152,600 \$157,178 \$161,893 \$166,750 \$171,753  LL FUNDING PL ANNUAL RESERVE CONTRIBUTION \$188,000	SPECIAL ASSESSMENT  \$0 \$0 \$0 \$0 \$0 \$0 AN  SPECIAL ASSESSMENT \$0	\$505,234 \$613,285 \$660,588 \$555,370 \$630,130 YEAR END RESERVE BALANCE \$540,723	45% 49% 50% 44% 46% PERCENT FUNDED	Moderate Risk
1 (2022) 2 (2023) 3 (2024) 4 (2025) 5 (2026) \$188,000 FUL YEAR 1 (2022) 2 (2023)	ANNUAL RESERVE CONTRIBUTION \$152,600 \$157,178 \$161,893 \$166,750 \$171,753  LL FUNDING PL ANNUAL RESERVE CONTRIBUTION \$188,000 \$193,640	SPECIAL ASSESSMENT  \$0 \$0 \$0 \$0 \$0 \$0 AN SPECIAL ASSESSMENT \$0 \$0	\$505,234 \$613,285 \$660,588 \$555,370 \$630,130 YEAR END RESERVE BALANCE \$540,723 \$686,310	FUNDED  45% 49% 50% 44% 46%  PERCENT FUNDED  48% 55%	Moderate Risk



#### PERCENT FUNDED

The "percent funded" is a measure of how much the Organization should have saved in their reserve account compared to the projected cost for all the components the Organization is responsible for, and relates to the level of deterioration compared to the cost to repair or replace the component.

We typically recommend a contribution rate to meet a minimum reserve account balance (threshold) goal instead of a 100% funded rate.

We usually recommend that an Organization consider a threshold equal to the recommended annual reserve contribution because this is the average maintenance expense over the thirty years. However, each Organization must judge their unique risk tolerance.

The Fully Funded Balance for Northshore Fire Department is \$1,093,546. The actual current funding is \$354,070. The Organization is approximately 32% funded.

This means that based on a straight-line savings for each reserve component, the Organization saved 32% of the accumulated depreciation of the reserve components.



At 32%, Northshore Fire Department is considered to be at moderate risk for a special assessment.

#### EXAMPLE OF PERCENT FUNDED FOR ROOF REPLACEMENT

#### **SCENARIO**

## For a roof that lasts 10 years and costs \$100,000 to replace:

- Save \$10,000 each year, for 10 years
- Year 2, the roof has deteriorated 20%.
  - If you have \$20,000 saved it is fully funded.
  - o If you have \$10,000 saved it is 50% funded.
- Year 8, the roof has deteriorated 80%.
  - o If you have \$80,000 saved it is fully funded.
  - If you have \$20,000 saved it is 25% funded. If you have \$10,000 saved it is 13% funded.

#### **ANALYSIS**

- A. In effect, the percent funded is a measure of how well an Organization can withstand the risk of unexpected expenses. Such unexpected expenses include: emergency expenses not covered by insurance, expenses that are higher than predicted, and expenses that are required earlier than anticipated.
- B. A higher percent funded means more money is in the bank which lowers the risk of special assessment if something unexpected occurs. A poorly funded Organization has less cash on hand, therefore much higher risk of special assessment for unplanned expenses.
- C. By analyzing deterioration cycles and cash flow needs, we determine how much money should be steadily contributed, over a 30 year period, to fund the repair and replacement needs of the components included in the study. Budgeting to maintain a minimum balance, or threshold, helps to ensure that a special assessment will not be required if an unexpected expense arises.



#### **FULLY FUNDED BALANCE CALCUATIONS**



FULLY FUNDED BALANCE = THE SUM OF USEFUL LIFE FOR ALL RESERVE COMPONENTS

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		COMPONENT DESCRIPTION	QTY	UNIT	MAINT. CYCLE (USEFUL LIFE)	REMAINING USEFUL LIFE	EFFECTIVE AGE	CURRENT REPLACEMENT COST	FULLY FUNDED BALANCE
3%	2.4.1	Concrete - Paving Repairs	65610	SF	10	3	7	\$18,550	\$12,985
100%	2.4.2	Concrete - Repaint Stalls & Curbs	76	EA	10	1	9	\$1,700	\$1,530
100%	2.7.1	Prefinished Metal Fence - Replace	885	LF	30	19	11	\$74,420	\$27,287
10%	2.7.2	Prefinished Metal Fence & Gates - Maintenance	885	LF	10	3	7	\$7,440	\$5,208
100%	2.7.3	Gate Operator - Maintenance	1	EA	3	1	2	\$1,680	\$1,120
100%	2.8.1	Wood Benches - Maintenance	4	EA	10	3	7	\$2,240	\$1,568
100%	2.9.1	Landscaping - Maintenance	1	LS	8	6	2	\$15,290	\$3,823
10%	3.3.1	Concrete Walkways - Repair	5700	SF	6	1	5	\$5,560	\$4,633
5%	3.3.2	Cast Concrete Retaining Walls - Repair	740	LF	15	4	11	\$16,180	\$11,865
100%	6.1.1	Garbage Bin Enclosure - Repair	1	EA	15	4	11	\$2,550	\$1,870
25%	6.2.1	Pedestal Paver - Maintenance	180	SF	30	19	11	\$1,870	\$686
100%	6.2.2	PVC Thermoplastic Membrane - Replace	180	SF	30	19	11	\$4,040	\$1,481
5%	6.4.1	Brick Siding - Maintenance	7010	SF	20	9	11	\$9,830	\$5,407
100%	6.4.2	CMU Wall - Tuck Point	6515	SF	20	9	11	\$54,800	\$30,140
3%	6.4.3	Fiber Cement Board Siding - Repair	6420	SF	10	1	9	\$6,260	\$5,634
100%	6.4.4	Metal Siding - Replace	2340	SF	35	24	11	\$41,970	\$13,191
100%	7.1.1	Sealant Joints - Replace	1700	LF	15	4	11	\$22,870	\$16,771
100%	7.3.1	Scuppers, Gutters & Downspouts - Replace	560	LF	30	19	11	\$3,640	\$1,335
100%	7.4.1	Low Sloped Ribbed Roof - Replace	101	SQ	30	19	11	\$193,100	\$70,803
100%	7.4.2	Low Sloped Smooth Roof - Replace	95	SQ	30	19	11	\$127,240	\$46,655
100%	7.4.3	Tower Composition Shingles - Replace	2	SQ	30	19	11	\$1,230	\$451
100%	7.4.4	Tower Metal Roof - Replace	6	SQ	50	39	11	\$5,250	\$1,155
100%	7.4.5	Apparatus Bay Metal Roof - Replace	19	SQ	40	29	11	\$16,620	\$4,571
5%	7.4.6	Roof Inspection & Minor Repair	223	SQ	5	3	2	\$6,250	\$2,500
10%	8.2.1	Folding Bay Doors & Hardware - Maintenance	5	EA	5	2	3	\$5,610	\$3,366
100%	8.2.2	Overhead Bay Doors & Hardware - Replace	4	EA	30	19	11	\$24,670	\$9,046
100%	8.2.3	Overhead Bay Door Operator - Contingency	4	EA	5	2	3	\$13,010	\$7,806
100%	8.2.4	Coiling Door - Maintenance	2	EA	30	19	11	\$10,090	\$3,700
100%	8.2.5	Doors & Hardware - Maintenance	5	EA	5	1	4	\$3,650	\$2,920
20%	8.3.1	Storefront System - Maintenance	420	SF	15	4	11	\$7,820	\$5,735



\$1,093,546

Current Fully Funder Balance

\$354,070

urrent Reserve Fun Balance

32%

Current Percent Fully Funded

FULLY FUNDED BALANCE = THE SUM OF REPLACEMENT COST X EFFECTIVE AGE FOR ALL RESERVE COMPONENTS **USEFUL LIFE** 

		COMPONENT DESCRIPTION	QTY	UNIT	MAINT. CYCLE (USEFUL LIFE)	REMAINING USEFUL LIFE	EFFECTIVE AGE	CURRENT REPLACEMENT COST	FULLY FUNDED BALANCE
100%	8.3.2	Storefront System - Replace	420	SF	60	50	10	\$39,090	\$6,515
100%	8.5.1	Aluminum Windows - Replace	2620	SF	40	29	11	\$176,280	\$48,477
100%	9.8.1	Cedar Wood Siding - Maintenance	1530	SF	6	1	5	\$22,300	\$18,583
100%	9.8.2	Concrete Siding - Maintenance	920	SF	12	1	11	\$5,160	\$4,730
100%	9.8.3	Exterior Steel - Maintenance	1	LS	6	4	2	\$8,160	\$2,720
100%	9.8.4	Fiber Cement Board Siding - Caulk & Paint	6420	SF	8	1	7	\$21,630	\$18,926
100%	10.4.1	Exterior Signage - Refurbish	1	LS	10	2	8	\$2,550	\$2,040
100%	10.5.1	Exterior Mail Pedestal Unit - Replace	1	EA	25	14	11	\$2,240	\$986
100%	11.1.1	Propane Forklift - Replace	1	EA	20	8	12	\$22,430	\$13,458
100%	11.4.1	Admin Kitchen Equipment - Contingency	1	LS	10	6	4	\$5,100	\$2,040
100%	11.4.2	Duty Crew Kitchen Equipment - Contingency	1	LS	5	3	2	\$15,290	\$6,116
100%	11.6.1	Laundry Equipment - Contingency	4	EA	5	3	2	\$3,810	\$1,524
100%	11.6.2	Unimac Gear Extractor - Replace	1	EA	12	1	11	\$8,970	\$8,223
100%	11.6.3	Ramair Gear Dryer - Replace	1	EA	12	1	11	\$11,210	\$10,276
100%	11.8.1	Air Compressor System - Replace	1	EA	15	4	11	\$8,970	\$6,578
100%	12.1.1	Apparatus Bay - Refurbish	12525	SF	25	14	11	\$70,190	\$30,884
100%	12.1.2	Admin Common Areas - Repaint	12115	SF	16	5	11	\$17,610	\$12,107
100%	12.1.3	Exercise Room - Refurbish	1	LS	20	9	11	\$3,060	\$1,683
100%	12.1.4	Bunk Gear Storage - Refurbish	1	LS	10	3	7	\$8,160	\$5,712
100%	12.1.5	Admin Offices - Refurbish	1	LS	16	5	11	\$25,480	\$17,518
100%	12.1.6	Lobby - Refurbish	1	LS	15	6	9	\$20,390	\$12,234
100%	12.1.7	Public Meeting Room - Refurbish	1	LS	12	1	11	\$15,290	\$14,016
100%	12.1.8	Public & Admin Restrooms - Refurbish	7	EA	20	9	11	\$19,620	\$10,791
100%	12.2.1	Duty Crew Common Areas - Full Repaint	9630	SF	16	7	9	\$14,000	\$7,875
100%	12.2.2	Duty Crew Common Areas - Touchup Paint	9630	SF	16	15	1	\$14,000	\$875
100%	12.2.3	Duty Crew Sleep Room Interiors - Refurbish	9	EA	10	3	7	\$25,230	\$17,661
100%	12.2.4	Duty Crew Kitchen Interiors - Refurbish	1	LS	10	9	1	\$10,190	\$1,019
100%	12.2.5	Duty Crew Laundry Interiors - Refurbish	1	LS	10	2	8	\$2,040	\$1,632
100%	12.2.6	Duty Crew Office/Training Areas - Refurbish	1	LS	15	4	11	\$6,120	\$4,488
100%	12.2.7	Duty Crew Restrooms - Refurbish	6	EA	10	2	8	\$16,820	\$13,456



\$1,093,546

Current Fully Funder Balance

\$354,070

urrent Reserve Fung

32%

Current Percent Fully Funded

FULLY FUNDED BALANCE = THE SUM OF REPLACEMENT COST X EFFECTIVE AGE FOR ALL RESERVE COMPONENTS **USEFUL LIFE** 

		COMPONENT DESCRIPTION	QTY	UNIT	M AINT. CYCLE (USEFUL LIFE)	REMAINING USEFUL LIFE	EFFECTIVE AGE	CURRENT REPLACEMENT COST	FULLY FUNDED BALANCE
100%	12.4.1	1st Floor Interior Carpet Flooring - Replace	704	SY	24	13	11	\$34,740	\$15,923
100%	12.4.2	2nd Floor Interior Carpet Flooring - Replace	507	SY	16	5	11	\$25,020	\$17,201
100%	12.4.3	1st Floor Resilient Flooring - Replace	655	SF	20	9	11	\$2,350	\$1,293
100%	12.4.4	2nd Floor Resilient Flooring - Replace	770	SF	15	4	11	\$2,760	\$2,024
100%	12.4.5	1st Floor Sheet Flooring - Replace	1950	SF	20	9	11	\$32,810	\$18,046
100%	12.4.6	2nd Floor Sheet Flooring - Replace	2510	SF	15	4	11	\$42,230	\$30,969
100%	12.4.7	1st Floor Stained Concrete - Refurbish	510	SF	12	1	11	\$15,440	\$14,153
100%	12.6.1	Elevator Cab Interior - Remodel	1	LS	40	29	11	\$6,120	\$1,683
100%	14.1.1	Elevator - Major Upgrades	1	EA	40	29	11	\$127,420	\$35,041
100%	14.1.2	Elevators - 5 Year Load Test	1	LS	5	5	-	\$5,610	\$0
100%	15.2.1	Plumbing System - Contingency	1	LS	5	3	2	\$5,100	\$2,040
100%	15.2.2	Plumbing Supply Lines - Replace	1	LS	60	49	11	\$61,160	\$11,213
100%	15.3.1	Irrigation System - Contingency	12	ZN	10	8	2	\$10,500	\$2,100
100%	15.3.2	Storm Water System - Contingency	1	LS	3	1	2	\$5,100	\$3,400
100%	15.4.1	Fire Detection System - Maintenance	1	LS	5	3	2	\$2,550	\$1,020
100%	15.4.2	Fire Sprinkler System - Maintenance	1	LS	15	4	11	\$8,160	\$5,984
100%	15.5.1	Water Heater - Contingency	2	EA	20	9	11	\$16,600	\$9,130
100%	15.6.1	Heat Recovery Unit - Replace	1	EA	25	14	11	\$13,460	\$5,922
100%	15.6.2	Indirect Makeup AHU - Replace	1	EA	20	9	11	\$10,090	\$5,550
100%	15.6.3	Furnace - Replace	1	EA	20	9	11	\$2,240	\$1,232
33%	15.6.4	VRF Heat Pump - Contingency	40	EA	6	4	2	\$19,700	\$6,567
100%	15.6.5	HVAC System - Contingency	1	LS	5	3	2	\$5,100	\$2,040
100%	15.6.6	Infrared Heaters - Replace	6	EA	20	9	11	\$15,470	\$8,509
33%	15.7.1	Exhaust Fans - Contingency	14	EA	5	3	2	\$7,770	\$3,108
100%	16.3.1	Electrical System - Contingency	1	LS	10	8	2	\$5,100	\$1,020
100%	16.5.1	Emergency Generator - Replace	1	EA	30	19	11	\$20,180	\$7,399
100%	16.5.2	Generator Fuel Tank - Replace	1	EA	30	19	11	\$8,970	\$3,289
100%	16.6.1	Exterior Light Fixtures - Replace	1	LS	10	9	1	\$10,190	\$1,019
100%	16.8.1	Fire Control Panel - Replace	1	EA	20	9	11	\$3,810	\$2,096
100%	16.9.1	Audio/Visual Equipment - Upgrades	1	LS	15	4	11	\$78,490	\$57,559





FULLY FUNDED BALANCE = THE SUM OF REPLACEMENT COST X EFFECTIVE AGE FOR ALL RESERVE COMPONENTS USEFUL LIFE

		COMPONENT DESCRIPTION	QTY	UNIT	M AINT. CYCLE (USEFUL LIFE)	REMAINING USEFULLIFE	EFFECTIVE AGE	CURRENT REPLACEMENT COST	FULLY FUNDED BALANCE
100%	17.1.1	Fireblast 451 - Maintenance	1	EA	10	9	1	\$10,190	\$1,019
100%	18.1.1	Security / Surveillance System - Replace	1	LS	10	1	9	\$16,310	\$14,679
5%	2.6.1	Asphalt Paving - Repair	9180	SF	6	1	5	\$4,120	\$3,433
100%	2.6.2	Asphalt Pavement- Seal Coat & Restripe	9180	SF	6	1	5	\$5,150	\$4,292
100%	2.7.4	Privacy Wood Fence - Replace	120	LF	15	8	7	\$6,190	\$2,889
100%	2.7.5	Chain-link Fence - Repair	205	LF	40	18	22	\$4,360	\$2,398
100%	2.9.2	Landscaping - Maintenance	1	LS	8	6	2	\$5,100	\$1,275
100%	2.9.3	Wetland - Maintenance	1	LS	15	13	2	\$10,190	\$1,359
20%	3.3.3	Exterior Concrete Paving - Repair	1730	SF	6	2	4	\$3,260	\$2,173
100%	6.1.2	Garbage Bin Enclosure - Contingency	1	LS	20	18	2	\$1,530	\$153
10%	6.4.5	Brick Siding - Maintenance	4860	SF	20	8	12	\$13,080	\$7,848
100%	7.3.2	Gutters & Downspouts - Replace	511	LF	20	11	9	\$3,220	\$1,449
100%	7.4.7	Metal Roof - Replace	70	SQ	40	11	29	\$61,220	\$44,385
5%	7.4.8	Roof Inspection & Minor Repair	70	sQ	5	5	-	\$3,060	\$0
15%	8.2.8	Common Doors & Hardware - Maintenance	31	EA	10	10	-	\$3,380	\$0
100%	8.2.6	Overhead Bay Door - Replace	5	EA	20	8	12	\$5,810	\$3,486
100%	8.2.7	Bay Door Operator - Contingency	5	EA	20	18	2	\$56,070	\$5,607
100%	8.3.3	Storefront System - Maintenance	5	EA	10	8	2	\$19,620	\$3,924
100%	8.5.2	Aluminum Framed Windows - Replace	1	LS	45	16	29	\$30,580	\$19,707
100%	9.8.5	Front Entry Steel Framed Structure - Paint	128	LF	10	2	8	\$2,290	\$1,832
100%	10.4.2	Exterior Signage - Refurbish	1	LS	15	10	5	\$2,550	\$850
50%	11.4.3	Kitchen Equipment - Contingency	5	EA	5	6	-	\$14,020	\$0
100%	11.6.4	Laundry Equipment - Contingency	2	EA	5	3	2	\$3,360	\$1,344
100%	11.6.5	Station Extractor - Bunker Gear Washer	1	EA	12	5	7	\$8,970	\$5,233
100%	11.8.2	Air Compressor - Replace	3640	SF	12	11	1	\$40,840	\$3,403
25%	12.3.1	Interior Concrete Floor - Refurbish	5748	SF	25	24	1	\$8,050	\$322
100%	12.3.2	Apparatus Bay - Refurbish	5844	SF	10	10	-	\$13,770	\$0
100%	12.3.3	Hallway & Stairwell Walls & Ceiling - Paint	1	LS	25	10	15	\$7,140	\$4,284
100%	12.3.4	Front Reception Desk & Office - Remodel	1	LS	10	11	-	\$25,480	\$0
100%	12.3.5	Kitchen - Remodel	1	LS	10	10	-	\$10,190	\$0





FULLY FUNDED BALANCE = THE SUM OF REPLACEMENT COST X EFFECTIVE AGE FOR ALL RESERVE COMPONENTS USEFUL LIFE

		COMPONENT DESCRIPTION	QTY	UNIT	M A INT. CYCLE (USEFUL LIFE)	REMAINING USEFUL LIFE	EFFECTIVE AGE	CURRENT REPLACEMENT COST	FULLY FUNDED BALANCE
100%	12.3.6	Day / Dining Room - Remodel	1	LS	15	10	5	\$15,290	\$5,097
100%	12.3.7	Duty Crew Sleep Rooms - Refurbish	1	LS	20	8	12	\$5,100	\$3,060
100%	12.3.8	Exercise Room - Refurbish	1	LS	15	14	1	\$30,580	\$2,039
100%	12.3.9	Locker & Restroom - Refurbish	1	LS	15	5	10	\$2,040	\$1,360
100%	12.3.10	Laundry & Utility Room - Refurbish	1	LS	10	8	2	\$10,190	\$2,038
100%	15.2.3	Plumbing System - Contingency	1	LS	10	4	6	\$5,100	\$3,060
100%	15.3.3	Irrigation System - Contingency	1	LS	5	2	3	\$2,550	\$1,530
100%	15.4.3	Fire Detection System - Maintenance	1	LS	15	5	10	\$5,100	\$3,400
100%	15.4.4	Wet & Dry Fire Sprinkler System - Contingency	1	LS	10	8	2	\$5,610	\$1,122
100%	15.5.2	Water Heater - Replace	3	EA	15	2	13	\$8,070	\$6,994
100%	15.6.7	HVAC Units - Replace	1	EA	15	6	9	\$11,210	\$6,726
100%	15.6.8	Furnace - Replace	5	EA	10	4	6	\$14,020	\$8,412
100%	15.6.9	Infrared Overhead Heaters - Replace	1	LS	10	8	2	\$5,100	\$1,020
33%	15.7.2	Exhaust Fans - Contingency	8	EA	5	3	2	\$4,440	\$1,776
100%	16.3.2	Electrical System - Contingency	1	EA	20	8	12	\$6,730	\$4,038
100%	16.5.3	Emergency Generator - Contingency	1	EA	20	18	2	\$8,970	\$897
100%	16.6.2	Exterior Light Fixtures - Replace	5	EA	15	1	14	\$2,800	\$2,613
100%	16.8.2	Fire Control Panel - Replace	1	EA	20	8	12	\$3,920	\$2,352
100%	18.1.2	Security / Surveillance System - Upgrade	1	LS	10	1	9	\$15,290	\$13,761
				FULL	Y FUNDED	BALANCE		Total	\$1,093,546

CURRENT RESERVE BALANCE = \$354,070

PERCENT FULLY FUNDED = 32%

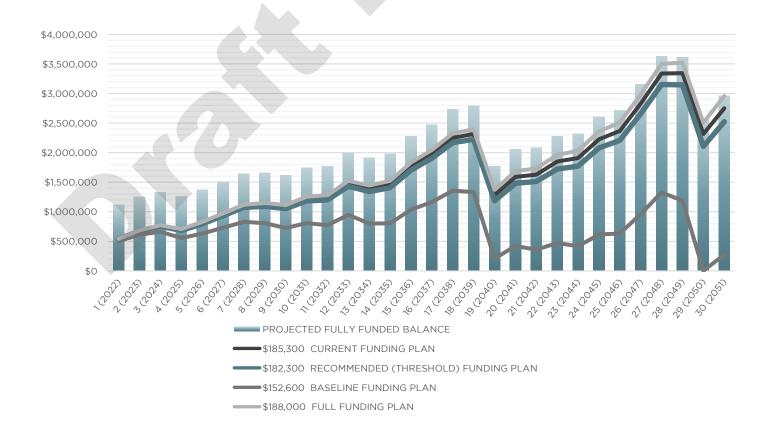


#### **FUNDING PLANS**

THRESHOLD FUNDING PLAN \$182,300	ELINE FUNDING PLAN \$152,600	FULL FUNDING PLAN \$188,000
RECOMMENDED	OPTIONAL STRATEGY	100% FUNDED BY YEAR 30
initial annual contribution of \$182,300	initial annual contribution of \$152,600	initial annual contribution of \$188,000
meets yearly projected reserve expenses	meets annual reserve expenses with no minimum balance requirement	most flexibility for cost variables and unplanned expenses
maintains minimum reserve balance equal to annual contribution amount	less flexibility with cost variables and unplanned expenses	lowest risk for special assessment

The Threshold Funding Plan is the **RECOMMENDED FUNDING PLAN** for Northshore Fire Department, balancing cashflow and anticipated expenses over 30 years while maintaining a minimum reserve account balance of one year's contribution to reserves and the percent funded above 48%. Cost projection accuracy decreases into the distant future. Assumptions should be reconsidered and updated with each revision of the study.

#### COMPARISON OF FULLY FUNDED BALANCE AND FUNDING PLANS





#### PROJECTED RESERVE ACCOUNT BALANCES

FOR FUNDING PLANS OVER 30 YEARS

The projected reserve account balance for each of the funding plans over the next 30 years is provided, along with the current funding plan projections.

FISCAL YEAR END	\$182,300 RECOMMENDED (THRESHOLD) FUNDING PLAN	\$185,300 CURRENT FUNDING PLAN	\$152,600 BASELINE FUNDING PLAN	\$188,000 FULL FUNDING PLAN
1 (2022)	\$535,010	\$538,016	\$505,234	\$540,723
2 (2023)	\$674,552	\$680,741	\$613,285	\$686,310
3 (2024)	\$754,903	\$764,430	\$660,588	\$773,005
4 (2025)	\$684,350	\$697,379	\$555,370	\$709,105
5 (2026)	\$795,449	\$812,152	\$630,130	\$827,181
6 (2027)	\$933,772	\$954,321	\$730,372	\$972,812
7 (2028)	\$1,073,117	\$1,097,693	\$829,829	\$1,119,810
8 (2029)	\$1,093,261	\$1,122,054	\$808,213	\$1,147,967
9 (2030)	\$1,051,801	\$1,085,007	\$723,052	\$1,114,893
10 (2031)	\$1,182,011	\$1,219,835	\$807,549	\$1,253,877
11 (2032)	\$1,199,279	\$1,242,368	\$772,675	\$1,281,151
12 (2033)	\$1,429,541	\$1,478,222	\$947,598	\$1,522,035
13 (2034)	\$1,340,872	\$1,395,485	\$800,228	\$1,444,634
14 (2035)	\$1,406,957	\$1,467,856	\$804,080	\$1,522,663
15 (2036)	\$1,704,912	\$1,772,471	\$1,036,093	\$1,833,273
16 (2037)	\$1,903,316	\$1,977,931	\$1,164,666	\$2,045,082
17 (2038)	\$2,169,662	\$2,251,743	\$1,357,092	\$2,325,613
18 (2039)	\$2,224,512	\$2,314,495	\$1,333,737	\$2,395,475
19 (2040)	\$1,184,055	\$1,282,393	\$210,574	\$1,370,892
20 (2041)	\$1,482,330	\$1,589,499	\$421,422	\$1,685,946
21 (2042)	\$1,511,680	\$1,628,179	\$358,393	\$1,733,024
22 (2043)	\$1,723,271	\$1,849,627	\$472,412	\$1,963,342
23 (2044)	\$1,772,603	\$1,909,366	\$418,727	\$2,032,446
24 (2045)	\$2,078,953	\$2,226,698	\$616,348	\$2,359,663
25 (2046)	\$2,208,710	\$2,368,045	\$631,392	\$2,511,438
26 (2047)	\$2,660,011	\$2,831,569	\$961,705	\$2,985,961
27 (2048)	\$3,153,293	\$3,337,736	\$1,327,420	\$3,503,725
28 (2049)	\$3,146,321	\$3,344,349	\$1,185,994	\$3,522,562
29 (2050)	\$2,103,347	\$2,315,684	\$1,339	\$2,506,777
30 (2051)	\$2,525,238	\$2,752,651	\$273,986	\$2,957,311

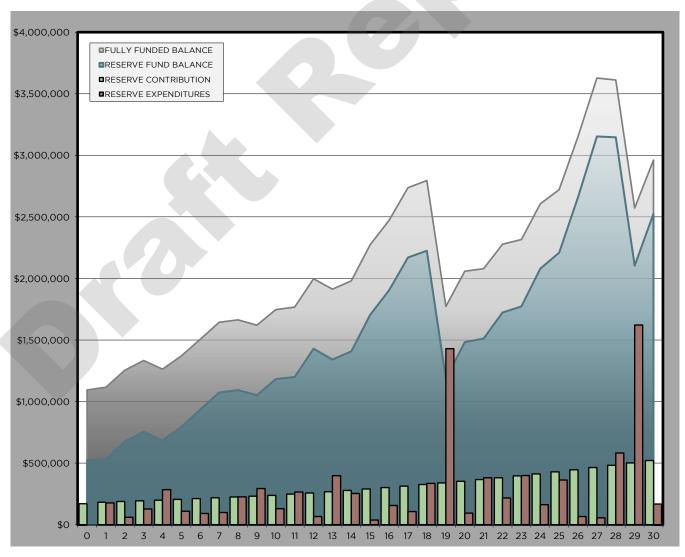


## RESERVE STUDY PROJECTIONS USING INFLATED DOLLAR VALUES

The recommended contribution to reserves is primarily based on cashflow over thirty years to ensure a that there will be enough funds in reserves to cover anticipated expenses without the need of a special assessment. Monitoring the Fully Funded Balance helps anticipate future financial liabilities and the community's potential risk for a special assessment. The inflated scenario includes annual increases in the reserve contribution to keep up with inflation.

- **Teal Area Graph:** The fiscal year-end running reserve fund balance is shown as a line graph in teal.
- Grey Area Graph: The anticipated fully funded balance is shown as a line graph in grey.
- Mint Green Bars: The annual reserve fund contributions are shown as mint green bars.
- Brick Red Bars: The anticipated yearly reserve expenditures are shown as brick red bars, depicting the anticipated expenses over the next 30 years.

#### RECOMMENDED FUNDING PLAN STARTING AT \$182,300





## RESERVE 30 YEAR SUMMARY AT THE RECOMMENDED FUNDING PLAN STARTING AT \$182,300

INFLATION & INTEREST ASSUMPTIONS <sup>1</sup>							
		COMPONENT	INTEREST				
	INFLATION	INFLATION	IIVIEREST				
Years 0-1	0%	4%	0.5%				
Years 2-10	3%	3%	2%				
Years 11-30	4%	4%	3%				

SPECIAL AS	SSESSMENT RISK	
Nominal Ris Low Ris Moderate Ris Highest Ris	70% to 99% sk 25% to 69%	

FISCAL YEAR END	FISCAL YEAR BEGINNING RESERVE BALANCE	RECOMMMENDED ANNUAL RESERVE CONTRIBUTION <sup>2</sup>	AVERAGE CONTRIBUTION PER UNIT PER MONTH <sup>3</sup>	PROJECTED RESERVE EXPENDITURES	SPECIAL ASSESSMENT	PROJECTED INTEREST EARNED	FISCAL YEAR END RESERVE BALANCE	PROJECTED FULLY FUNDED BALANCE	PERCENT FUNDED
1 (2022)	\$525,948	\$182,300	\$15,192	(\$175,884)	\$0	\$2,646	\$535,010	\$1,116,507	48%
2 (2023)	\$535,010	\$187,769	\$15,647	(\$60,202)	\$0	\$11,976	\$674,552	\$1,253,683	54%
3 (2024)	\$674,552	\$193,402	\$16,117	(\$127,204)	\$0	\$14,153	\$754,903	\$1,332,889	57%
4 (2025)	\$754,903	\$199,204	\$16,600	(\$284,008)	\$0	\$14,250	\$684,350	\$1,262,732	54%
5 (2026)	\$684,350	\$205,180	\$17,098	(\$108,732)	\$0	\$14,651	\$795,449	\$1,370,963	58%
6 (2027)	\$795,449	\$211,336	\$17,611	(\$90,134)	\$0	\$17,121	\$933,772	\$1,506,409	62%
7 (2028)	\$933,772	\$217,676	\$18,140	(\$98,201)	\$0	\$19,870	\$1,073,117	\$1,643,383	65%
8 (2029)	\$1,073,117	\$224,206	\$18,684	(\$225,511)	\$0	\$21,449	\$1,093,261	\$1,662,857	66%
9 (2030)	\$1,093,261	\$230,932	\$19,244	(\$293,631)	\$0	\$21,238	\$1,051,801	\$1,620,666	65%
10 (2031)	\$1,051,801	\$237,860	\$19,822	(\$129,767)	\$0	\$22,117	\$1,182,011	\$1,747,121	68%
11 (2032)	\$1,182,011	\$247,375	\$20,615	(\$265,298)	\$0	\$35,191	\$1,199,279	\$1,767,612	68%
12 (2033)	\$1,199,279	\$257,270	\$21,439	(\$65,857)	\$0	\$38,850	\$1,429,541	\$1,997,003	72%
13 (2034)	\$1,429,541	\$267,560	\$22,297	(\$397,171)	\$0	\$40,942	\$1,340,872	\$1,913,238	70%
14 (2035)	\$1,340,872	\$278,263	\$23,189	(\$252,786)	\$0	\$40,608	\$1,406,957	\$1,979,845	71%
15 (2036)	\$1,406,957	\$289,393	\$24,116	(\$37,427)	\$0	\$45,988	\$1,704,912	\$2,274,191	75%
16 (2037)	\$1,704,912	\$300,969	\$25,081	(\$155,888)	\$0	\$53,324	\$1,903,316	\$2,471,955	77%
17 (2038)	\$1,903,316	\$313,008	\$26,084	(\$106,854)	\$0	\$60,192	\$2,169,662	\$2,737,168	79%
18 (2039)	\$2,169,662	\$325,528	\$27,127	(\$335,616)	\$0	\$64,939	\$2,224,512	\$2,795,157	80%
19 (2040)	\$2,224,512	\$338,549	\$28,212	(\$1,429,380)	\$0	\$50,373	\$1,184,055	\$1,773,068	67%
20 (2041)	\$1,184,055	\$352,091	\$29,341	(\$93,220)	\$0	\$39,405	\$1,482,330	\$2,058,071	72%
21 (2042)	\$1,482,330	\$366,175	\$30,515	(\$381,072)	\$0	\$44,246	\$1,511,680	\$2,078,914	73%
22 (2043)	\$1,511,680	\$380,822	\$31,735	(\$217,037)	\$0	\$47,807	\$1,723,271	\$2,277,410	76%
23 (2044)	\$1,723,271	\$396,055	\$33,005	(\$398,386)	\$0	\$51,663	\$1,772,603	\$2,315,794	77%
24 (2045)	\$1,772,603	\$411,897	\$34,325	(\$162,467)	\$0	\$56,920	\$2,078,953	\$2,605,457	80%
25 (2046)	\$2,078,953	\$428,373	\$35,698	(\$361,980)	\$0	\$63,364	\$2,208,710	\$2,721,577	81%
26 (2047)	\$2,208,710	\$445,508	\$37,126	(\$66,158)	\$0	\$71,952	\$2,660,011	\$3,153,117	84%
27 (2048)	\$2,660,011	\$463,328	\$38,611	(\$55,957)	\$0	\$85,911	\$3,153,293	\$3,627,671	87%
28 (2049)	\$3,153,293	\$481,861	\$40,155	(\$581,931)	\$0	\$93,098	\$3,146,321	\$3,611,414	87%
29 (2050)	\$3,146,321	\$501,135	\$41,761	(\$1,621,690)	\$0	\$77,581	\$2,103,347	\$2,571,562	82%
30 (2051)	\$2,103,347	\$521,181	\$43,432	(\$167,693)	\$0	\$68,403	\$2,525,238	\$2,961,613	85%

<sup>&</sup>lt;sup>1</sup>The long term nature of this study requires that certain assumptions and predictions be made about future events. Since there can be no guarantee that these future events will occur as assumed, this analysis must be viewed in light of the circumstances under which it was conducted. Reasonable effort has been made to ensure that the conclusions of this report are based on reliable information and sound reasoning.

 $<sup>^{2}</sup>$  The Recommended Annual Reserve Contribution includes inflation and any applicable recommended adjustments.

<sup>&</sup>lt;sup>3</sup>The Average Contribution Per Unit Per Month reflects the Recommended Annual Reserve Contribution divided by the total number of units in the community.



## **PURPOSE OF A RESERVE STUDY**

The purpose of a Reserve Study is to recommend a reasonable annual reserve contribution rate made by an organization to its reserve account. Reserve accounts are established to fund major maintenance, repair, and replacement of common elements, including limited common elements, expected within the next thirty years. A Reserve Study is intended to project availability of adequate funds for the replacement or major repair of any significant component of the property as it becomes necessary without relying on special assessments. It is a budget planning tool which identifies the current status of the reserve account and a stable and equitable Funding Plan to offset the anticipated future major shared expenditures. Each reserve component is

evaluated to determine the current condition, the remaining useful life, and the estimated replacement cost. This information is combined into a spreadsheet to determine funding requirements and establish the annual contribution rate needed to minimize the potential for special assessments. All costs and annual reserve fund balances are shown with adjustments for annual inflation and interest earned. Ideally, an even level of contributions is established that maintains a positive balance in the reserve account over the timeline the study examines. Annual updates are key to keeping up with current trends in component pricing, inflation and interest rates, actual timing of maintenance experienced and the community's risk tolerance.

A Reserve Study also calculates a theoretical "Fully Funded Balance". Fully Funded Balance is the sum total of the reserve components' depreciated value using a straight-line depreciation method.

To calculate each component's depreciated value:

$$\textit{Depreciated Value} = \textit{Current Replacement Cost} \times \frac{\textit{Effective Age}}{\textit{Expected Useful Life}}$$

By comparing the actual current reserve fund balance, to the theoretical Fully Funded Balance a Percent Fully Funded is derived.

## **OUR APPROACH TO A RESERVE STUDY**

Reserve Consultants LLC employs a "Reasonable Approach" when evaluating reserve components in order to draft a study that is of greatest value to our clients. This means we attempt to predict, based on the costs involved and the client's objectives, what a reasonable person will decide to have done when maintenance, repairs, or replacement become necessary. For example, a reasonable person will not replace a fence when

it only needs to be repainted. The benefit of this is that reserve contributions are minimized to allow for what is most likely to occur. Our studies are not based on a worst-case scenario, but rather on what we expect is most likely to occur. Our approach assumes minor problems will be corrected as they occur, before they become major problem.



## **LEVELS OF RESERVE STUDIES**

As defined by Washington State Law for Common Interest Communities:

**Level 1:** The first level, an initial Reserve Study, must be based upon a visual site inspection conducted by a Reserve Study Professional. This is also known as a full Level 1 Reserve Study with a site visit.

**Level 2:** Thereafter at least every three years, an updated Reserve Study must be prepared, which again is based upon a visual site inspection conducted by a Reserve Study Professional. This is also known as a Level 2 update with a site visit.

**Level 3:** As noted earlier, the Association is required to update its Reserve Study every year. However, in two of the three years, the annual updates do not require a site visit. This is also known as a Level 3 update without a site visit.

This study is a <u>Level 3</u>
Reserve Study update without a site visit.

## SOURCES USED IN COMPILING THIS REPORT

Reserve Consultants LLC has provided reserve studies and construction services since 1992 and base component repair and replacement costs on this extensive experience and information provided by the Organization. Sources used include:

- Review of previous reserve study report(s);
- Input provided by the organization's representatives;
- Review of a list of components the organization is responsible for;
- Generally accepted construction, maintenance, and repair guidelines

The current replacement cost is an estimate and actual costs may vary. Material selection, timing of the work, and requirements for Architectural services or construction management can impact cost projections. All estimates assume that a licensed and bonded contractor will be utilized to complete the work due to liability issues. Regional cost factors are applied as appropriate.

## **DISCLOSURE**

While this report is not in compliance with RCW 64.90, following disclosure is required to be included in every Reserve Study per RCW 64.90.550 § 3 and provides further consideration regarding components that are not included in the report:

"This reserve study should be reviewed carefully. It may not include all common and limited common element components that will require major maintenance, repair, or replacement in future years, and may not include regular contributions to a reserve account for the cost of such maintenance, repair, or replacement. The failure to include a component in a reserve study, or to provide contributions to a reserve account for a component, may, under some circumstances, require the association to (1) defer major maintenance, repair, or replacement, (2) increase future reserve contributions, (3) borrow funds to pay for major maintenance, repair, or replacement, or (4) impose special assessments for the cost of major maintenance, repair, or replacement."



## LIMITATIONS AND ASSUMPTIONS OF A RESERVE STUDY

This Reserve Study is not a report on the condition of the assets maintained by Northshore Fire Department, or a detailed report of necessary maintenance to the assets. It is also not an investigation into or comment on the quality of construction of the reserve components, or whether the construction complies with the building code.

The component list is based on information provided by Northshore Fire Department. Reserve Consultants LLC does not provide legal interpretations of governing documents or auditing services on account information provided.

The observations made by Reserve Consultants LLC are limited to a visual inspection of a sample of the reserve components. Unless informed otherwise, our assumption is that the components are constructed in substantial compliance with the building code and to industry standards, and that it will receive ordinary and reasonable maintenance and repair by Northshore Fire Department. These assumptions include that most reserve components will achieve their normal useful lives for similar components in the Pacific Northwest, and that they will be replaced when necessary to prevent damage to other reserve components.

This Reserve Study assumes that the assets will be maintained to keep a good level of appearance, with a special emphasis on retaining the original appearance of the assets to the greatest possible extent. The analysis also assumes that Northshore Fire Department will replace materials as they are required with good quality materials, installed by qualified, licensed, contractors. We further assume that the assets will experience the full typical useful life for the new materials installed.

The long-term nature of this study requires that certain assumptions and predictions be made about future events. Since there can be no guarantee that these future events will occur as assumed, this analysis must be viewed in light of the circumstances under which it was conducted. Reasonable effort has been made to ensure that the conclusions of this report are based on reliable information and sound reasoning.

Ideally, this report would be updated annually with actual repair costs, reserve fund balances, etc. We recommend that the updated include a site inspection and professional review every three years; a site visit is required by Washington State Law at least once every three years for Common Interest Communities. Regular updating will allow changes based on actual occurrences and adjustments for the cost of repairs to be incorporated into the annual reserve contributions. This will allow any savings or additional costs to be properly allocated.



# **INFLATION AND INTEREST RATE PROJECTIONS**

When making estimates on the future inflation and interest rates, we use a staggered approach to more accurately reflect future economic projections.

For inflation, we use the construction industry inflation rates published by RS Means, which differ from the consumer inflation index. The average annual construction inflation increase since 1990 is 3.07%. We do not apply inflation to the annual reserve contribution in Year 0. Likewise, we do not apply inflation to the recommended reserve contribution in Year 1 since this is the first year at the recommended contribution rate. Inflation applied to the components on the inflated spreadsheet is compounded annually; the values are listed for each year at the bottom of the inflated spreadsheet.

For interest rates, we analyze the historical data provided by the Board of Governors of the Federal Reserve. The average annual interest rate since 1990 is 2.82%. The interest for organizations is typically lower than average due to conservative investing options that are usually employed by organizations.

## INFLATION AND INTEREST RATE PROJECTIONS

YEARS APPLIED	RESERVE CONTRIBUTION INFLATION	RESERVE EXPENSE INFLATION	INTEREST RATE
Year 0 (2021)	0%	0%	0.5%
Year 1 (2022)	0%	4%	0.5%
Year 2 (2023) through Year 10 (2031)	3%	3%	2%
Year 11 (2032) through Year 30 (2051)	4%	4%	3%



## **DISCLOSURES**

- Reserve Consultants LLC also provides construction inspection services for condominiums and does design and construction oversight for major repair projects, including roofing, decks and building envelope replacement.
- 2. No shareholder or employee of Reserve Consultants LLC has any interest in, or obligation to, any construction company, management company, or development entity that creates condominiums; nor is there any involvement with Northshore Fire Department which could result in a conflict of interest.
- 3. Reserve Consultants LLC has been a member of the Community Associations Institute since about 1993, and has worked with a variety of management companies, associations and other types of clients in Washington State.
- 4. This report and analysis is based upon observations of the visible and apparent condition of the building and its major components on the date of the inspection. Although care has been taken in the performance of this inspection, Reserve Consultants LLC (and/or its representatives) make no representations regarding latent or concealed defects which may exist and no warranty or guarantee is expressed or implied. This report is made only in the best exercise of our ability and judgment. Conclusions in this report are based on estimates of the age and normal working life of various items of equipment and appliances. Predictions of life expectancy and the balance of useful life are necessarily based on industry and/or statistical comparisons. It is essential to understand that actual conditions can alter the useful life of any item. The previous use or misuse, irregularity of servicing, faulty manufacture, unfavorable conditions, acts of god, and unforeseen circumstances make it impossible to state precisely when each item would require replacement. The client herein should be aware that certain components within the above referenced property may function consistent with their purpose at the time of inspection, but due to their nature, are subject to deterioration without notice.
- 5. Unless otherwise noted, all reserve components are assumed to meet the building code requirements in force at the time of construction. Any on-site inspection should not be considered a project audit or quality inspection.
- 6. Conclusions reached in this report assume responsible ownership and competent management of the property. Information provided by others is believed to be reliable. Information provided by others was not audited; we assume no responsibility for accuracy thereof. Any on-site inspection should not be considered a project audit or quality inspection.
- 7. The reserve study is a reflection of information provided to the consultant and assembled for the Organization's use, not for the purpose of performing an audit, quality/forensic analyses or background checks of historical record.



# **EVALUATOR'S CREDENTIALS**

## Denise Dana

## Principal

Reserve Consultants LLC

B.S. Education, M. Architecture

Washington Registered Architect, #8702

LEED Accredited Professional Reserve Specialist, #291

Denise Dana first obtained licensure as an Architect and became a LEED accredited professional in 2003. She is currently a licensed Architect in the State of Washington and is certified by the National Council of Architectural Registration Boards. With over twenty years of experience in architecture, her resume includes a variety of project types ranging from residential to corporate. She has worked through all phases of construction including design development, construction documentation and construction administration with project budgets varying from a few thousand dollars to over sixty million dollars. Denise has been conducting reserve studies since joining Reserve Consultants in 2008; in 2011 she was recognized as a 'Reserve Specialist' by the Community Associations Institute.





# **Glossary of Terms**

**Allocated Interests** - the following interests allocated to each unit: (a) In a condominium, the undivided interest in the common elements, the common expense liability, and votes in the association; (b) In a cooperative, the common expense liability, the ownership interest, and votes in the association; and (c) In a plat community and miscellaneous community, the common expense liability and the votes in the association, and also the undivided interest in the common elements if owned in common by the unit owners rather than an association. RCW 64.90.010 §2.

Assessment - all sums chargeable by the association against a unit, including any assessments levied pursuant to RCW 64.90.480, fines or fees levied or imposed by the association pursuant to this chapter or the governing documents, interest and late charges on any delinquent account, and all costs of collection incurred by the association in connection with the collection of a delinquent owner's account, including reasonable attorneys' fees. RCW 64.90.010 §3.

Association or Unit Owners Association - the unit owners association organized under RCW 64.90.400 of WUCIOA and, to the extent necessary to construe sections of this chapter made applicable to common interest communities pursuant to RCW64.90.085, 64.90.095, or 64.90.100 of WUCIOA, the association organized or created to administer such common interest communities. RCW \$64.90.010 \$4)

**Baseline Funding Plan** – A reserve contribution rate that is constant, increasing with inflation, to provide funds for all anticipated reserve expenses so that no special assessments are required for 30 years, but with no excess funds some years.

**Board** - the body, regardless of name, designated in the declaration, map, or organizational documents, with primary authority to manage the affairs of the association. RCW \$64.90.010 \$6.

Building Codes - Nationally recognized standards used to gauge the acceptability of a particular material or building procedure. Typically, if something is built to "code," it is acceptable to all concerned. Some often used codes are International Building Code (IBC) (applicable to most multifamily housing), International Residential Code (IRC) (applicable to one and two family structures), Washington Energy Code, National Electric Code (NEC), Uniform Plumbing Code (UPC), and the National Fire Protection Association Standards (NFPA).

These are usually amended slightly by each city or county.

**Building Component** – see "Reserve Component".

**Component Number** - A number assigned to each building component that allows grouping of like components. The numbers are based roughly on the Construction Specification Institute system.

Common Elements - (a) In a condominium or cooperative, all portions of the common interest community other than the units; (b) In a plat community or miscellaneous community, any real estate other than a unit within a plat community or miscellaneous community that is owned or leased either by the association or in common by the unit owners rather than an association; and (c) In all common interest communities, any other interests in real estate for the benefit of any unit owners that are subject to the declaration. RCW §64.90.010 §7.

**Common Expense** - any expense of the association, including allocations to reserves, allocated to all of the unit owners in accordance with common expense liability. RCW \$64.90.010 §8.

**Common Expense Liability** - the liability for common expenses allocated to each unit pursuant to RCW64.90.040of RCW. RCW \$64.90.010 §9.

Common Interest Community - real estate described in a declaration with respect to which a person, by virtue of the person's ownership of a unit, is obligated to pay for a share of real estate taxes, insurance premiums, maintenance, or improvement of, or services or other expenses related to, common elements, other units, or other real estate described in the declaration. "Common interest community" does not include an arrangement described in RCW 64.90.110 or RCW 64.90.115. A common interest community may be a part of another common interest community. RCW §64.90.010 §10.

**Contribution Rate** - in a Reserve Study as described in RCW 64.34, the amount contributed to the reserve account so that the association will have cash reserves to pay major maintenance, repair, or replacement costs without the need of a special assessment. RCW 64.34.020 (10)

**Constant Dollars** - costs and contributions are provided in today's dollars, no matter how far in the future they occur. Inflation and interest are not factored in.



**Effective Age** - the difference between the useful life and the remaining useful life. RCW 64.34.020 §19 & RCW §64.90.010 §21.

Full Funding Plan - a reserve funding goal of achieving one hundred percent fully funded reserves by the end of the thirty-year study period described under RCW64.90.550 of WUCIOA, in which the reserve account balance equals the sum of the estimated costs required to maintain, repair, or replace the deteriorated portions of all reserve components. RCW \$64.90.010 \$25.

**Fully Funded Balance** - the current value of the deteriorated portion, not the total replacement value, of all the reserve components. The fully funded balance for each reserve component is calculated by multiplying the current replacement cost of that reserve component by its effective age, then dividing the result by that reserve component's useful life. The sum total of all reserve components' fully funded balances is the association's fully funded balance. RCW 64.34.020 \$22 & RCW \$64.90.010 \$26.

**Inflated Dollars** - as opposed to constant dollars, inflated dollars recognize that costs in the future will probably be higher than today because each dollar will buy fewer goods and services. A rate of inflation must be assumed and applied to all future costs. Also referred to as future cost.

**Inflation Multiplier** - 100% plus the assumed rate of inflation. Thus, for an assumed yearly inflation rate of 5%, the "multiplier" would be 105% or 1.05 if expressed as a decimal number rather than as a percentage. Each successive year the previous year's "multiplier" is multiplied by this number to arrive at the next year's "multiplier."

Interest Rate Multiplier - The assumed rate of interest earned on the average annual reserve bank account balance. Thus, 4% interest would be 0.04 expressed as a decimal number. A rate of interest earned must be assumed for all future years. Typically this is lower than the rate of inflation.

**Limited Common Element** - a portion of the common elements allocated by the declaration or by operation of RCW 64.90.210 \$1(b) or \$2 for the exclusive use of one or more, but fewer than all, of the unit owners. RCW \$64.90.010 \$30.

Unit owners may be responsible for the cost to repair and maintain limited common elements, so those costs may not appear in a Reserve Study.

Maintenance Cycle – the frequency of maintenance on a component to reach or extend its Useful Life. Often shorter than the full "Useful Life" for repairs that occur in lieu of complete replacement.

**Next Repair** - the next time the "Repair Cycle" starts with work on a component.

Nominal Reserve Costs – the current estimated total replacement costs of the reserve components are less than fifty percent of the annual budgeted expense of the association, excluding contributions to the reserve funds, for a condominium or cooperative containing horizontal unit boundaries and less than seventy five percent of the annual budgeted expenses of the association, excluding contributions to the reserve fund for all other common interest communities. RCW §64.90.010 §34.

**Percent Fully Funded** – The percentage of the "Fully Funded Balance" which the current condominium Reserve Account actually has in it.

**RCW** - the Revised Code of Washington. RCW 64.34 is the **Washington Condominium Act**, the statute that governs 'New Act' condominiums formed between July 1, 1990 and June 30, 2018.

RCW 64.90 is the Uniform Common Interest Ownership Act (**WUCIOA**) and governs common interest properties formed after July 1, 2018 and requires all common interest properties in Washington State to comply with RCW 64.90.525.

**Remaining useful life** - the estimated time, in years, that a reserve component can be expected to continue to serve its intended function. RCW 64.34.020 §31.

Or the estimated time before a reserve component will require major maintenance, repair or replacement to perform its intended function. RCW \$64.90.010 \$44.

**Replacement Cost** - the current cost of replacing, repairing, or restoring a reserve component to its original functional condition. RCW 64.34.020 §32.

Or the estimated total cost to maintain, repair, or replace a reserve component to its original functional condition. RCW \$64.90.010 \$45.

**Reserve Account** - Money set aside for future repair and replacement projects. For condominiums, the RCW requires a separate Reserve Account be maintained to hold reserves to fund repair or replacement of Reserve Components.



**Reserve Component** - common elements whose cost of maintenance, repair, or replacement is infrequent, significant, and impractical to include in an annual budget. RCW 64.34.020 §34.

Or a physical component of the common interest community which the association is obligated to maintain, repair, or replace, which has an estimated useful life of less than thirty years, and for which the cost of such maintenance, repair or replacement is infrequent, significant, and impractical to include in an annual budget. RCW §64.90.010 §46.

**Reserve Contribution Rate** - The amount of money saved to fund replacement costs for maintenance and repairs of common elements. See "Contribution Rate". Current contributions and Recommended contributions may be different.

**Reserve Specialist** – A designation for those professionals who have met the standards established by Community Associations Institute (<a href="www.caionline.org">www.caionline.org</a>) for Reserve Study providers.

Reserve Study - A physical assessment of a building and a subsequent report which estimates the anticipated major maintenance, repair, and replacement costs, whose infrequent and significant nature make them impractical to be included in an annual budget, which will need to be repaired or replaced over the next 30 years. It provides estimates of these replacement costs and details expected annual expenditures. It is used to calculate the Reserve Contribution Rate required to maintain a facility in good condition both functionally and cosmetically. The Washington Condominium Act sets out requirements for annual reserve studies.

Reserve Study Professional means an independent person suitably qualified by knowledge, skill, experience, training, or education to prepare a reserve study in accordance with RCW 64.34, RCW 64.34.020 §35, RCW 64.90.545 and RCW 64.90.550. For the purposes of WUCIOA, "independent" means a person who is not an employee, officer, or director, and has no pecuniary interest in the declarant, association, or any other party for whom the reserve study is prepared. RCW §64.90.010 §47.

**Special Assessment** - A levy against all unit owners that is necessary when a needed repair/replacement/upgrade has not been planned for, and for which insufficient money has been saved.

Threshold Funding (contribution rate) – A Reserve Contribution Rate that is constant, increasing with inflation, to provide funds for all anticipated Reserve Expenses for the life of the study, but leaving a minimum level of Reserves (the "threshold") at all times. Our default minimum threshold is one year's contribution.

**Typ.** - Abbreviation for 'typical'; used on photographs and in text to refer to a problem that is shown or described once, but applies to many locations.

**Typical Life** - An average expected life for an average building component. As in any statistical average, there is a range of years over which each individual item might fall. This is the same as "Useful life".

**Useful life** means the estimated time, in years, that a reserve component can be expected to serve its intended function. RCW 64.34.020 \$40 or the estimated time during which a reserve component is expected to perform its intended function without major maintenance, repair or replacement. RCW \$64.90.010 \$59.

Year End Reserve Balance or Reserve Fund Balance - What is projected to be left in the reserve account after the expected yearly expenses and contributions are added to the prior year's carryover balance. Assumes that the reserve contributions and expenses occur as predicted.

**Yearly Expenses** - The total labor and material costs associated with all of the repairs/maintenance that are scheduled in that particular year.

**30 Year Spreadsheet** - A summary listing each building component and its yearly cost to maintain/repair over the next 30 years. It also lists the annual reserve fund balance, reserve contributions, reserve expenses and bank interest earned on any reserve fund balance.



30-YEAR RESERVE STUDY PROJECTIONS
WITH STARTING RECOMMENDED FUNDING OF \$182,300
AND COMPOUND INFLATION

		ANNUAL F	TING RESERV RESERVE CON ATED INTERE	ITRIBUTION	\$525,948 \$182,300 \$2,646	\$535,010 \$187,769 \$11,976	\$674,552 \$193,402 \$14,153	\$754,903 \$199,204 \$14,250	<b>16-Nov-21</b> \$684,350 \$205,180 \$14,651
				SSESSMENT	\$0 <b>\$710,894</b>	\$0 <b>\$734,754</b>	\$0 \$882,107	\$0 <b>\$968,358</b>	\$0 \$904,181
	#	COMPONENT NAME	MAINT. CYCLE	NEXT MAINT.	1 2022	2 <b>2023</b>	3 2024	4 <b>2025</b>	5 <b>2026</b>
Stn.51	2.4.1	Concrete - Paving Repairs	10	3	2022	2023	\$20,467	2025	2020
Stn.51	2.4.2	Concrete - Repaint Stalls & Curbs	10	1	\$1,768				
Stn.51	2.7.1	Prefinished Metal Fence - Replace	30	19					
Stn.51	2.7.2	Prefinished Metal Fence & Gates - Maintenance	10	3			\$8,209		
Stn.51	2.7.3	Gate Operator - Maintenance	3	1	\$1,747			\$1,909	
Stn.51	2.8.1	Wood Benches - Maintenance	10	3			\$2,471		
Stn.51	2.9.1	Landscaping - Maintenance	8	6					
Stn.51	3.3.1	Concrete Walkways - Repair	6	1	\$5,782			¢10.700	
Stn.51	3.3.2 6.1.1	Cast Concrete Retaining Walls - Repair	15 15	4				\$18,388	
Stn.51 Stn.51	6.2.1	Garbage Bin Enclosure - Repair Pedestal Paver - Maintenance	30	19				\$2,898	
Stn.51	6.2.2	PVC Thermoplastic Membrane - Replace	30	19					
Stn.51	6.4.1	Brick Siding - Maintenance	20	9					
Stn.51	6.4.2	CMU Wall - Tuck Point	20	9					
Stn.51	6.4.3	Fiber Cement Board Siding - Repair	10	1	\$6,510				
Stn.51	6.4.4	Metal Siding - Replace	35	24					
Stn.51	7.1.1	Sealant Joints - Replace	15	4				\$25,990	
Stn.51	7.3.1	Scuppers, Gutters & Downspouts - Replace	30	19					
Stn.51	7.4.1	Low Sloped Ribbed Roof - Replace	30	19					
Stn.51	7.4.2	Low Sloped Smooth Roof - Replace	30	19	Ť				
Stn.51	7.4.3	Tower Composition Shingles - Replace	30	19					
Stn.51	7.4.4	Tower Metal Roof - Replace	50	39					
Stn.51	7.4.5	Apparatus Bay Metal Roof - Replace	40	29					
Stn.51	7.4.6	Roof Inspection & Minor Repair	5	3		****	\$6,896		
Stn.51	8.2.1	Folding Bay Doors & Hardware - Maintenance	5	2		\$6,009			
Stn.51	8.2.2 8.2.3	Overhead Bay Doors & Hardware - Replace Overhead Bay Door Operator - Contingency	30 5	19 2		\$13,936			
Stn.51 Stn.51	8.2.4	Coiling Door - Maintenance	30	19		\$13,930			
Stn.51	8.2.5	Doors & Hardware - Maintenance	5	1	\$3,796				
Stn.51	8.3.1	Storefront System - Maintenance	15	4	7-,			\$8,887	
Stn.51	8.3.2	Storefront System - Replace	60	50					
Stn.51	8.5.1	Aluminum Windows - Replace	40	29					
Stn.51	9.8.1	Cedar Wood Siding - Maintenance	6	1	\$23,192				
Stn.51	9.8.2	Concrete Siding - Maintenance	12	1	\$5,366				
Stn.51	9.8.3	Exterior Steel - Maintenance	6	4				\$9,273	
Stn.51	9.8.4	Fiber Cement Board Siding - Caulk & Paint	8	1	\$22,495	40.770			
Stn.51	10.4.1	Exterior Signage - Refurbish	10	2		\$2,732			
Stn.51	10.5.1 11.1.1	Exterior Mail Pedestal Unit - Replace Propane Forklift - Replace	25 20	14 8					
Stn.51 Stn.51	11.4.1	Admin Kitchen Equipment - Contingency	10	6					
Stn.51	11.4.2	Duty Crew Kitchen Equipment - Contingency	5	3			\$16,870		
Stn.51	11.6.1	Laundry Equipment - Contingency	5	3			\$4,204		
Stn.51	11.6.2	Unimac Gear Extractor - Replace	12	1	\$9,329				
Stn.51	11.6.3	Ramair Gear Dryer - Replace	12	1	\$11,658				
Stn.51	11.8.1	Air Compressor System - Replace	15	4				\$10,194	
Stn.51	12.1.1	Apparatus Bay - Refurbish	25	14					
Stn.51	12.1.2	Admin Common Areas - Repaint	16	5					\$20,613
Stn.51	12.1.3	Exercise Room - Refurbish	20	9					
Stn.51	12.1.4	Bunk Gear Storage - Refurbish	10	3			\$9,003		***
Stn.51	12.1.5	Admin Offices - Refurbish Lobby - Refurbish	16 15	5 6					\$29,825
Stn.51 Stn.51	12.1.6 12.1.7	Public Meeting Room - Refurbish	12	1	\$15,902				
Stn.51	12.1.7	Public & Admin Restrooms - Refurbish	20	9	Ψ13,302				
Stn.51	12.2.1	Duty Crew Common Areas - Full Repaint	16	7					
Stn.51	12.2.2	Duty Crew Common Areas - Touchup Paint	16	15					
Stn.51	12.2.3		10	3			\$27,837		
Stn.51	12.2.4	Duty Crew Kitchen Interiors - Refurbish	10	9	\$1,560				
Stn.51	12.2.5	Duty Crew Laundry Interiors - Refurbish	10	2		\$2,185			
Stn.51	12.2.6	Duty Crew Office/Training Areas - Refurbish	15	4				\$6,955	
Stn.51	12.2.7	Duty Crew Restrooms - Refurbish	10	2		\$18,018			
Stn.51	12.4.1		24	13					***
Stn.51	12.4.2	2nd Floor Interior Carpet Flooring - Replace	16	5					\$29,287
Stn.51	12.4.3	1st Floor Resilient Flooring - Replace	20 15	9				\$3,137	
Stn.51	12.4.4	2nd Floor Resilient Flooring - Replace 1st Floor Sheet Flooring - Replace	20	9				φ3,13/	
Stn.51	12.4.5	ist Floor Sheet Flooring - Replace	20	Э	l				

2.5.   2.5.   Enter Stained Concrete - Refurbish   12					i	1	1				
Section   Proceedings			2nd Floor Sheet Flooring - Replace		15	4	440.050			\$47,992	
100   101   Elevator - Major Degrades   40   29   101   10							\$16,058				
Section   Sect											
Section   Sect											¢6 567
State   19.22   Flumming Supply Lines - Replace   60   69	-					-			\$5,627		\$0,507
19.50   19.51   Irrigation System - Contingency   10									ψ3,027		
Section   Sect											
Social Fire Detection System - Naintenance   5							\$5,304			\$5,796	
Side   Mater Researce - Contingency	Stn.51					3			\$2,814		
Since   Mest Recovery Unit - Replace	Stn.51	15.4.2	Fire Sprinkler System - Maintenance		15	4				\$9,273	
Sis   Sis   Indirect Makeup AHU - Replace   20   9	Stn.51	15.5.1	Water Heater - Contingency		20	9					
16.05   16.05   Formace - Replace	Stn.51	15.6.1	Heat Recovery Unit - Replace		25	14					
Stad   Visit   Heat Pump - Contingency   6	Stn.51	15.6.2	Indirect Makeup AHU - Replace		20	9					
Sist   Sist   MAC System - Contingency   S   S   S   S   S   S   S   S   S	Stn.51	15.6.3									
## 1866   Inflared Hesters - Replace										\$22,388	
8.72   Exhaust Fans - Contingency   5   3   8.27   Exhaust Fans - Contingency   10   8   8   8.27   Exhaust Fans - Contingency   10   10   10   10   10   10   10   1									\$5,627		
16.53   16.51   Electrical System - Contingency   10   8			•						¢0.533		
Social   Social   Common   Social   S									\$8,573		
Section   Sect	-								4		
### 16.61 Exterior Light Fixtures - Replace  10. 9  10.18   Fisco Control Pean E - Replace  10. 9  10.18   Fisco Control Pean E - Replace  10. 9  10.18   Fisco Control Pean E - Replace  10. 9  10.18   Fisco Control Pean E - Replace  10. 9  10.18   Fisco Control Pean E - Replace  10. 9  10.18   Fisco Control Pean E - Replace  10. 10   Fisco E - Replace  10. 10   Fisco E - Replace  10. 10   Fisco E - Replace  10. 11   Fisco E - Replace  10. 12   Fisco E - Replace  10. 13   Fisco E - Replace  10. 14   Fisco E - Replace  10. 15   Fisco E - Replace  10. 16   Fisco E - Replace  10. 17   Fisco E - Replace  10. 18   Fisco E - Replace  10. 19   Fi											
Sin   Sin   Fire Control Panel - Replace											
16.91   Audio/Visual Equipment - Upgrades											
Security   Surveillance   10   9   1   1   1   1   1   1   1   1   1			·							\$89.199	
Sin   Security   Surveillance System - Replace   10	-									,	
Section   Sect							\$16,962				
Section   Sect											
2.74   Privacy Wood Fence - Replace   15   8   8   8   8   8   8   8   8   8	Stn.57	2.6.2			6	1					
Section   Sect	Stn.57	2.7.4			15	8					
Sin 57   31.3   Sterior Concrete Paying - Repair   6   2   53.492	Stn.57	2.7.5	Chain-link Fence - Repair		40	18					
Simple   State   Sta											
Sin 57   61.2   Garbage Bin Enclosure - Contingency   20   18	Stn.57										
Sin 57   6.45   Brick Siding - Maintenance   20   8								\$3,492			
Sin 57   7.3.2   Gulter's & Downspouts - Replace	-										
Sin57   7.47   Metal Roof - Replace   40   11   5   5   5   5   5   5   5   5			_								
Sin 57   7.48   Roof Inspection & Minor Repair   5   5   5   5   5   5   5   5   5											
Sin 57   22.6   Common Doors & Hardware - Maintenance   10   10   10   10   10   10   10   1											¢7 E00
San 57   23.6   Overhead Bay Door - Replace   20   8   8   8   8   8   8   8   8   8											\$3,362
Sin 57   82.5   Bay Door Operator - Contingency   20.   8	-										
Shi-57   8.5.3   Storefront System - Maintenance   10											
Sin 57   10.2   Aluminum Framed Windows - Replace   45   16											
Sin.57   10.42   Exterior Signage - Refurbish   15   10   10   10   10   10   10   10					1						
Sin.57   11.43   Kitchen Equipment - Contingency   5   6   6		9.8.5				2		\$2,453			
Stn.57   16.4   Laundry Equipment - Contingency   5   3   \$   \$   \$   \$   \$   \$   \$   \$   \$	Stn.57	10.4.2	-		15	10					
Sin.57   16.5   Station Extractor - Bunker Gear Washer   12   5   5   5   5   5   5   5   5   5	Stn.57	11.4.3	Kitchen Equipment - Contingency		5	6					
Sh   18.2   Air Compressor - Replace   12   11   11   12   12   12   13   12   14   14   14   14   14   14   14	Stn.57	11.6.4	Laundry Equipment - Contingency		5	3			\$3,707		
Stn.57   12.31   Interior Concrete Floor - Refurbish   25   24	Stn.57	11.6.5	Station Extractor - Bunker Gear Washer		12	5					\$10,500
Stn.57   12.32   Apparatus Bay - Refurbish   10   10   10   10   10   11   11   1	Stn.57	11.8.2									
Stn.57   12.3.3   Hallway & Stairwell Walls & Celling - Paint   25   10   11   10   11   10   11   10   11   10	Stn.57	12.3.1									
Stn.57   12.3.4   Front Reception Desk & Office - Remodel   10   11   10   11   10   11   10   11   10   11   10   11   10   11   10			11								
Stn.57   12.3.5   Kitchen - Remodel   10   10   10   10   10   10   10   1											
Stn.57   12.36   Day / Dining Room - Remodel   15   10   15   10   15   10   15   10   15   10   15   10   15   10   15   10   10											
Stn.57   12.3.7   Duty Crew Sleep Rooms - Refurbish   20   8	-										
Stn.57   12.3.8   Exercise Room - Refurbish   15   14     15   14											
Stn.57   12.3.9   Locker & Restroom - Refurbish   15   5   5   8											
Stn.57   12.3.10   Laundry & Utility Room - Refurbish   10   8											\$2,388
Stn.57   15.2.3   Plumbing System - Contingency   10   4											ΨΖ,500
Stn.57   15.3.3   Irrigation System - Contingency   5   2   \$2,732   \$2,559   \$3,595   \$3,5	-									\$5.796	
Stn.57   15.4.3   Fire Detection System - Maintenance   15   5   5   5   5   5   5   5   5								\$2,732		+ 5,, 5 0	
Stn.57   15.4.4   Wet & Dry Fire Sprinkler System - Contingency   10   8											\$5,970
Stn.57   15.5.2   Water Heater - Replace   15   2   \$8,645											
Stn.57   15.6.7   HVAC Units - Replace   15   6     6		15.5.2	Water Heater - Replace		15	2	<u> </u>	\$8,645			
Stn.57   15.6.9   Infrared Overhead Heaters - Replace   10   8	Stn.57	15.6.7	HVAC Units - Replace		15	6		<u> </u>		<u> </u>	
Stn.57   15.7.2   Exhaust Fans - Contingency   5   3   \$4,899	Stn.57				10	4				\$15,933	
Stn.57   16.3.2   Electrical System - Contingency   20   8			·								
Stn.57   16.5.3   Emergency Generator - Contingency   20   18									\$4,899		
Stn.57   16.6.2   Exterior Light Fixtures - Replace   15   1   \$2,912		-									
Stn.57   16.8.2   Fire Control Panel - Replace   20   8   10   1     1     1     1     1     1   1		~					**				
Stn.57   18.12   Security   Surveillance System - Upgrade   10   1   \$15,902							\$2,912				
TOTAL ANTICIPATED ANNUAL RESERVE EXPENSES   \$175,884   \$60,202   \$127,204   \$284,008   \$108,7   \$108			•				¢1F 000				
ACCUMULATED CREDITS	Stn.5/	ıö.1.2		EVDENCES	IU	I		¢60.202	¢127 204	\$204.000	¢100 770
ACCUMULATED DEBITS YEAR-END BALANCE  \$175,884 \$60,202 \$127,204 \$284,008 \$108,7  \$75,490 \$674,552 \$754,903 \$684,350 \$795,4  YEARS  CONTRIBUTION INFLATION COMPONENT COMPOUND INFLATION 4% 3% 4% 104% 107% 110% 114% 1											\$108,732
YEAR-END BALANCE         \$535,010         \$674,552         \$754,903         \$684,350         \$795,4           YEARS         1         2-10         11-30         1 (2022)         2 (2023)         3 (2024)         4 (2025)         5 (2022)           CONTRIBUTION INFLATION         0%         3%         4%         0%         3%         3%         3%           COMPONENT COMPOUND INFLATION         4%         3%         4%         104%         107%         110%         114%         1											\$108,732
CONTRIBUTION INFLATION         0%         3%         4%         0%         3%         3%           COMPONENT COMPOUND INFLATION         4%         3%         4%         104%         107%         110%         114%         1											\$795,449
COMPONENT COMPOUND INFLATION 4% 3% 4% 104% 107% 110% 114% 1			YEARS	1	2-10	11-30	1(2022)	2 (2023)	3 (2024)	4 (2025)	5 (2026)
											3%
<u> </u>							1				117% 2%
			ENEOT MATE PIOETIFEIEN	0.5/0	2/0	370	] 170	∠70	∠70	∠70	∠%

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30-YEAR RESERVE STUDY PROJECTIONS WITH STARTING RECOMMENDED FUNDING OF \$182,300 AND COMPOUND INFLATION

		ANNUAL F	TING RESERV RESERVE CON ATED INTERE	ITRIBUTION ST EARNED	\$795,449 \$211,336 \$17,121	\$933,772 \$217,676 \$19,870	\$1,073,117 \$224,206 \$21,449	\$1,093,261 \$230,932 \$21,238	<b>16-Nov-21</b> \$1,051,801 \$237,860 \$22,117
			SPECIAL AS ACCUMULATI	SSESSMENT  CREDITS	\$0 \$1,023,906	\$0 <b>\$1,171,318</b>	\$0 <b>\$1,318,772</b>	\$0 <b>\$1,345,432</b>	\$0 <b>\$1,311,778</b>
	#	COMPONENT NAME	MAINT. CYCLE	NEXT MAINT.	6 <b>2027</b>	7 <b>2028</b>	8 <b>2029</b>	9 <b>2030</b>	10 <b>2031</b>
Stn.51	2.4.1	Concrete - Paving Repairs	10	3	2027	2020	2029	2030	2031
Stn.51	2.4.2	Concrete - Repaint Stalls & Curbs	10	1					
Stn.51	2.7.1	Prefinished Metal Fence - Replace	30	19					
Stn.51	2.7.2	Prefinished Metal Fence & Gates - Maintenance	10	3		<b>#0.005</b>			<b>#0.000</b>
Stn.51	2.7.3	Gate Operator - Maintenance Wood Benches - Maintenance	3 10	3		\$2,086			\$2,280
Stn.51 Stn.51	2.9.1	Landscaping - Maintenance	8	6	\$18,434				
Stn.51	3.3.1	Concrete Walkways - Repair	6	1	\$10,434	\$6,904			
Stn.51	3.3.2	Cast Concrete Retaining Walls - Repair	15	4		15,52			
Stn.51	6.1.1	Garbage Bin Enclosure - Repair	15	4					
Stn.51	6.2.1	Pedestal Paver - Maintenance	30	19					
Stn.51	6.2.2	PVC Thermoplastic Membrane - Replace	30	19					
Stn.51	6.4.1	Brick Siding - Maintenance	20	9				\$12,950	
Stn.51	6.4.2	CMU Wall - Tuck Point	20	9				\$72,196	
Stn.51	6.4.3	Fiber Cement Board Siding - Repair	10 35	1 24					
Stn.51 Stn.51	6.4.4 7.1.1	Metal Siding - Replace Sealant Joints - Replace	15	4					
Stn.51	7.3.1	Scuppers, Gutters & Downspouts - Replace	30	19					
Stn.51	7.4.1	Low Sloped Ribbed Roof - Replace	30	19					
Stn.51	7.4.2	Low Sloped Smooth Roof - Replace	30	19					
Stn.51	7.4.3	Tower Composition Shingles - Replace	30	19					
Stn.51	7.4.4	Tower Metal Roof - Replace	50	39					
Stn.51	7.4.5	Apparatus Bay Metal Roof - Replace	40	29					
Stn.51	7.4.6	Roof Inspection & Minor Repair	5	3			\$7,994		
Stn.51	8.2.1	Folding Bay Doors & Hardware - Maintenance	5	2		\$6,967			
Stn.51	8.2.2 8.2.3	Overhead Bay Door Operator - Contingency	30 5	19 2		\$16,156			
Stn.51 Stn.51	8.2.4	Overhead Bay Door Operator - Contingency Coiling Door - Maintenance	30	19		\$10,130			
Stn.51	8.2.5	Doors & Hardware - Maintenance	5	1	\$4,401				
Stn.51	8.3.1	Storefront System - Maintenance	15	4					
Stn.51	8.3.2	Storefront System - Replace	60	50					
Stn.51	8.5.1	Aluminum Windows - Replace	40	29					
Stn.51	9.8.1	Cedar Wood Siding - Maintenance	6	1		\$27,692			
Stn.51	9.8.2	Concrete Siding - Maintenance	12	1					*** 077
Stn.51	9.8.3	Exterior Steel - Maintenance	6 8	1				¢20.400	\$11,073
Stn.51 Stn.51	9.8.4 10.4.1	Fiber Cement Board Siding - Caulk & Paint Exterior Signage - Refurbish	10	2				\$28,496	
Stn.51	10.5.1	Exterior Mail Pedestal Unit - Replace	25	14					
Stn.51	11.1.1	Propane Forklift - Replace	20	8			\$28,690		
Stn.51	11.4.1	Admin Kitchen Equipment - Contingency	10	6	\$6,149				
Stn.51	11.4.2	Duty Crew Kitchen Equipment - Contingency	5	3			\$19,557		
Stn.51	11.6.1	Laundry Equipment - Contingency	5	3			\$4,873		
Stn.51	11.6.2	Unimac Gear Extractor - Replace	12	1					
Stn.51	11.6.3	Ramair Gear Dryer - Replace	12	1					
Stn.51 Stn.51	11.8.1	Air Compressor System - Replace Apparatus Bay - Refurbish	15 25	14	<del> </del>				
Stn.51	12.1.2		16	5					
Stn.51	12.1.3	Exercise Room - Refurbish	20	9				\$4,031	
Stn.51	12.1.4	Bunk Gear Storage - Refurbish	10	3					
Stn.51	12.1.5	Admin Offices - Refurbish	16	5					
Stn.51	12.1.6	Lobby - Refurbish	15	6	\$24,583				
Stn.51	12.1.7	Public Meeting Room - Refurbish	12	1					
Stn.51	12.1.8	Public & Admin Restrooms - Refurbish	20	9		¢17.705		\$25,848	
Stn.51 Stn.51	12.2.1 12.2.2	Duty Crew Common Areas - Full Repaint Duty Crew Common Areas - Touchup Paint	16 16	7 15		\$17,385			
Stn.51	12.2.3		10	3	1				
Stn.51	12.2.4	Duty Crew Kitchen Interiors - Refurbish	10	9				\$13,425	
Stn.51	12.2.5	Duty Crew Laundry Interiors - Refurbish	10	2				, -=3	
Stn.51	12.2.6	Duty Crew Office/Training Areas - Refurbish	15	4					
Stn.51	12.2.7	Duty Crew Restrooms - Refurbish	10	2					
Stn.51	12.4.1		24	13					
Stn.51	12.4.2	2nd Floor Interior Carpet Flooring - Replace	16	5				¢7.000	
Stn.51	12.4.3	1st Floor Resilient Flooring - Replace	20 15	9				\$3,096	
Stn.51 Stn.51		2nd Floor Resilient Flooring - Replace 1st Floor Sheet Flooring - Replace	20	9				\$43,225	
0011.01	12.4.3	ist not onest nothing replace	20	9	I			Ψ-13,443	

					ii.	1				
Stn.51	12.4.6	2nd Floor Sheet Flooring - Replace		15	4					
Stn.51	12.4.7	1st Floor Stained Concrete - Refurbish		12	1					
Stn.51	12.6.1	Elevator Cab Interior - Remodel		40	29					
Stn.51	14.1.1	Elevator - Major Upgrades		40	29					A7.617
Stn.51 _ Stn.51	14.1.2 15.2.1	Elevators - 5 Year Load Test Plumbing System - Contingency		5 5	5			\$6,523		\$7,613
Stn.51		Plumbing System - Contingency Plumbing Supply Lines - Replace		60	49			ψ0,323		
Stn.51	15.3.1	Irrigation System - Contingency		10	8			\$13,430		
Stn.51	15.3.2			3	1		\$6,333	ψ10,100		\$6,921
Stn.51	15.4.1	Fire Detection System - Maintenance		5	3		+ =,===	\$3,262		+-,
Stn.51	15.4.2	Fire Sprinkler System - Maintenance		15	4			1.27		
Stn.51	15.5.1	Water Heater - Contingency		20	9				\$21,870	
Stn.51	15.6.1	Heat Recovery Unit - Replace		25	14					
Stn.51	15.6.2	Indirect Makeup AHU - Replace		20	9				\$13,293	
Stn.51	15.6.3	Furnace - Replace		20	9				\$2,951	
Stn.51	15.6.4	VRF Heat Pump - Contingency		6	4					\$26,732
Stn.51	15.6.5	HVAC System - Contingency		5	3			\$6,523		
Stn.51	15.6.6	Infrared Heaters - Replace		20	9			40.070	\$20,381	
Stn.51	15.7.1	Exhaust Fans - Contingency		5	3			\$9,938		
Stn.51	16.3.1	Electrical System - Contingency		10	8			\$6,523		
Stn.51 Stn.51	16.5.1 16.5.2	Emergency Generator - Replace Generator Fuel Tank - Replace		30 30	19 19					
Stn.51	16.6.1	Exterior Light Fixtures - Replace		10	9				\$13,425	
Stn.51	16.8.1	Fire Control Panel - Replace		20	9				\$5,019	
Stn.51	16.9.1	Audio/Visual Equipment - Upgrades		15	4				ψ3,013	
Stn.51	17.1.1	Fireblast 451 - Maintenance		10	9				\$13,425	
Stn.51	18.1.1	Security / Surveillance System - Replace		10	1				, -,	
Stn.57	2.6.1	Asphalt Paving - Repair		6	1		\$5,116			
Stn.57	2.6.2	Asphalt Pavement- Seal Coat & Restripe		6	1		\$6,395			
Stn.57	2.7.4	Privacy Wood Fence - Replace		15	8			\$7,917		
Stn.57	2.7.5	Chain-link Fence - Repair		40	18					
Stn.57	2.9.2	Landscaping - Maintenance		8	6	\$6,149				
Stn.57	2.9.3	Wetland - Maintenance		15	13					
Stn.57	3.3.3	Exterior Concrete Paving - Repair		6	2			\$4,170		
Stn.57	6.1.2	Garbage Bin Enclosure - Contingency		20	18					
Stn.57	6.4.5	Brick Siding - Maintenance		20	8			\$16,730		
Stn.57	7.3.2	Gutters & Downspouts - Replace		20	11					
Stn.57	7.4.7	Metal Roof - Replace		40	11					¢ 4 1E 0
Stn.57	7.4.8 8.2.8	Roof Inspection & Minor Repair Common Doors & Hardware - Maintenance		5	5 10					\$4,152 \$4,587
Stn.57 Stn.57	8.2.6	Overhead Bay Door - Replace		20	8			\$7,431		\$4,567
Stn.57	8.2.7	Bay Door Operator - Contingency		20	18			Ψ7,431		
Stn.57	8.3.3	Storefront System - Maintenance		10	8			\$25,095		
Stn.57	8.5.2	Aluminum Framed Windows - Replace		45	16			7,		
Stn.57	9.8.5	Front Entry Steel Framed Structure - Paint		10	2					
Stn.57	10.4.2			15	10					\$3,460
Stn.57	11.4.3	Kitchen Equipment - Contingency		5	6	\$16,903				
Stn.57	11.6.4	Laundry Equipment - Contingency		5	3			\$4,298		
Stn.57	11.6.5	Station Extractor - Bunker Gear Washer		12	5					
Stn.57	11.8.2	Air Compressor - Replace		12	11					
Stn.57	12.3.1	Interior Concrete Floor - Refurbish		25	24					#10 COF
Stn.57	12.3.2	Apparatus Bay - Refurbish		10 25	10 10					\$18,685 \$9,689
Stn.57	12.3.3	Hallway & Stairwell Walls & Ceiling - Paint			11					\$9,009
Stn.57 Stn.57	12.3.4 12.3.5	Front Reception Desk & Office - Remodel Kitchen - Remodel		10 10	10					\$13,827
Stn.57 _	12.3.6	Day / Dining Room - Remodel		15	10					\$20,748
Stn.57	12.3.7			20	8			\$6,523		Ψ20,7 TO
Stn.57	12.3.8	Exercise Room - Refurbish		15	14			,		
Stn.57	12.3.9			15	5					
Stn.57	12.3.10	Laundry & Utility Room - Refurbish		10	8			\$13,034		
Stn.57	15.2.3	Plumbing System - Contingency	<u> </u>	10	4					
Stn.57		Irrigation System - Contingency		5	2		\$3,167			
Stn.57	15.4.3	Fire Detection System - Maintenance		15	5					
Stn.57		Wet & Dry Fire Sprinkler System - Contingency		10	8			\$7,176		
Stn.57	$\overline{}$	Water Heater - Replace		15	2	¢17 F1F				
Stn.57	15.6.7	•		15 10	6	\$13,515				
Stn.57 Stn.57		Furnace - Replace Infrared Overhead Heaters - Replace		10	8			\$6,523		
Stn.57		Exhaust Fans - Contingency		5	3			\$6,523 \$5,679		
Stn.57		Electrical System - Contingency		20	8			\$8,608		
	-	Emergency Generator - Contingency		20	18			+-,		
Stn.57	~	Exterior Light Fixtures - Replace		15	1					
Stn.57		Fire Control Panel - Replace		20	8			\$5,014		
Stn.57	18.1.2	Security / Surveillance System - Upgrade		10	1					
		TOTAL ANTICIPATED ANNUAL RESERVE	EXPENSES			\$90,134	\$98,201	\$225,511	\$293,631	\$129,767
		ACCUMULATE				\$1,023,906	\$1,171,318	\$1,318,772	\$1,345,432	\$1,311,778
		ACCUMULATI <b>YEAR-END</b>				\$90,134 <b>\$933,772</b>	\$98,201 <b>\$1,073,117</b>	\$225,511 <b>\$1,093,261</b>	\$293,631 <b>\$1,051,801</b>	\$129,767 <b>\$1,182,011</b>
		_		2 10	11.70					
		YEARS CONTRIBUTION INFLATION	<b>1</b> 0%	<b>2-10</b> 3%	11-30 4%	6 (2027 ) 3%	7 (2028 ) 3%	8 (2029 ) 3%	9 (2030 ) 3%	10 (2031)
		COMPONENT COMPOUND INFLATION	4%	3%	4%	121%	124%	128%	132%	136%
		INTEREST RATE MULTIPLIER	0.5%	2%	3%	2%	2%	2%	2%	2%

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30-YEAR RESERVE STUDY PROJECTIONS WITH STARTING RECOMMENDED FUNDING OF \$182,300 AND COMPOUND INFLATION

## APPLICATE RESERVE CONTRESS TO \$277.20 \$277.				NG RESERV		\$1,182,011	\$1,199,279	\$1,429,541	\$1,340,872	<b>16-Nov-21</b> \$1,406,957
COMPONENT NUMBE				TED INTERE	ST EARNED					
Bar			A							
\$2.41   Concrete - Peywing Repairs   10   3   \$2.599   \$32,335   \$32,835   \$32,835   \$32,935	· ·	#	COMPONENT NAME							
## 272   Perfinished Metal Fence - Replace   30   19   ## 273   Carle Operator - Maintenance   3   1   2,2564   ## 273   Carle Operator - Maintenance   3   1   2,2564   ## 274   Carle Operator - Maintenance   3   1   2,2564   ## 275   Carle Operator - Maintenance   3   1   3,2564   ## 276   Carle Operator - Maintenance   3   1   3,2564   ## 277   Carle Operator - Maintenance   4   6   6   8,3477   ## 278   Carle Operator - Maintenance   5   6   6   8,3477   ## 278   Carle Operator - Maintenance   5   6   6   8,3477   ## 278   Carle Operator - Maintenance   7   7   7   ## 278   Carle Operator - Maintenance   7   7   7   ## 278   Carle Operator - Maintenance   7   7   7   ## 278   Carle Operator - Maintenance   7   7   7   ## 278   Carle Operator - Maintenance   7   7   7   ## 278   Carle Operator - Maintenance   7   7   7   ## 278   Carle Operator - Maintenance   7   7   7   ## 278   Carle Operator - Maintenance   7   7   7   ## 278   Carle Operator - Maintenance   7   7   7   ## 278   Carle Operator - Maintenance   7   7   7   ## 278   Carle Operator - Maintenance   7   7   7   ## 279   Carle Operator - Maintenance   7   7   7   7   ## 270   Carle Operator - Maintenance   7   7   7   7   ## 271   Carle Operator - Maintenance   7   7   7   7   7   ## 272   Carle Operator - Maintenance   7   7   7   7   7   7   7   7   7	Stn.51					2032	2033		2033	2030
272   Prefinished Metal Fence & Gates - Maintenance   10   3   1   1   1   1   1   1   1   1   1	Stn.51	2.4.2	Concrete - Repaint Stalls & Curbs	10	1	\$2,399				
23   3   3   3   3   3   3   3   3   3			•							
1965   201   Wood Banches - Haintenance										
Section   Sect	-				· ·					
stn.58         33.3         Concrete Walkways - Repair         6         1           51.93         52.0         Card Concrete Refaining Walls - Repair         15         4           51.95         6.11         Garbage Bin Enclosure - Repair         15         4           51.70         6.21         POR Charmoplastic Membrane - Replace         30         19           51.70         6.21         POK Charmoplastic Membrane - Replace         20         9           51.70         6.21         POK Charmoplastic Membrane - Replace         20         9           51.70         6.21         POK U Wall - Tuck Point         20         9           51.72         Louis Siding Membrane         35         4           51.72         Louis Siding Membrane         35         4           51.72         Louis Siding Membrane         30         19           51.73         Lou Sloped Ribbed Rod - Replace         30         19           51.74         Low Sloped Ribbed Rod - Replace         30         19           51.73         Jan Say Andreas Ray Metal Rod - Replace         30         19           51.74         Jan Say Andreas Ray Metal Rod - Replace         30         19           51.75         Jan Say Andreas Ray Metal								\$3,419	\$24 272	
Sins   3.12   Cast Concrete Retaining Walls - Repair   15			, -					\$8.487	ΨΖΨ,Ζ/Ζ	
Section   Sect					4					
SASS   CALP   Mick Siding - Maintenance	Stn.51	6.1.1	Garbage Bin Enclosure - Repair	15	4					
Sin	Stn.51	6.2.1	Pedestal Paver - Maintenance	30	19					
Section   Sect	Stn.51	6.2.2	PVC Thermoplastic Membrane - Replace	30						
Section   Sect	Stn.51	6.4.1								
Stand   Stand   Metal Siding - Replace   55   24										
Stand   131	-					\$8,834				
Simple   Sculppers, Gutters & Downspouts - Replace   30   19										
Simple   1,41   Low Sloped Ribbed Roof - Replace   50   19										
Simple   1.42   Low Sloped Smooth Roof - Replace   30   19										
Sn5    7.4.3   Tower Composition Shingles - Replace   50   19										
Simple   S	-									
San   1.46   Roof Inspection & Minor Repair   5   3   \$9,540	Stn.51	7.4.4								
Section   Sect	Stn.51	7.4.5	Apparatus Bay Metal Roof - Replace	40	29					
Section   Sect	Stn.51	7.4.6	Roof Inspection & Minor Repair	5	3			\$9,540		
Sins   2.3   Overhead Bay Door Operator - Contingency   5	-						\$8,234			
Sh.5  8.25   Colling Door - Maintenance   30   19										
Sh.5    2.5    Doors & Hardware - Maintenance   5							\$19,095			
Simple   Simple   Store   St			-			¢E 1E1				
Sin.5  8.5  8.5  Aluminum Windows - Replace						φ5,151				
Sin.51	-			1						
Sh.5    9.8.2   Concrete Stiding - Maintenance   12   1										
Str.5    9.8.3   Exterior Steel - Maintenance   6   4	Stn.51	9.8.1	Cedar Wood Siding - Maintenance	6	1			\$34,039		
Stn.5    9.84   Fiber Cement Board Siding - Caulk & Paint   10   2   \$3,743	Stn.51	9.8.2	Concrete Siding - Maintenance	12	1			\$7,876		
Stn.5    10.41   Exterior Signage - Refurblsh   10   2   \$3,743	-									
Stn.5  10.5  Exterior Mail Pedestal Unit - Replace			_		· ·					
Stn.5  11.11   Propane Forklift - Replace   20   8							\$3,743		<b>\$7.55</b>	
Stn.5    11.4.1   Admin Kitchen Equipment - Contingency   10   6									\$3,556	
Stn.5    11.42   Duty Crew Kitchen Equipment - Contingency   5   3   \$23,339   \$1.61.5   11.61.5   Laundry Equipment - Contingency   5   3   \$5,816   \$1.62.5   Unimac Gear Extractor - Replace   12   1   \$13,692   \$1.63.5   \$										
Stn.51   11.6.1   Laundry Equipment - Contingency   5   3   \$5,816     Stn.51   11.6.2   Unlmac Gear Extractor - Replace   12   1   \$13,692     Stn.51   11.6.3   Ramair Gear Dryer - Replace   12   1   \$17,111     Stn.51   11.8.1   Air Compressor System - Replace   15   4     Stn.51   12.1.1   Apparatus Bay - Refurbish   25   14   \$111,424     Stn.51   12.1.2   Admin Common Areas - Repaint   16   5     Stn.51   12.1.3   Exercise Room - Refurbish   20   9     Stn.51   12.1.4   Bunk Gear Storage - Refurbish   10   3   \$12,455     Stn.51   12.1.5   Admin Offices - Refurbish   16   5     Stn.51   12.1.5   Admin Offices - Refurbish   15   6     Stn.51   12.1.7   Public Meeting Room - Refurbish   12   1   \$23,339     Stn.51   12.1.8   Public & Admin Restrooms - Refurbish   20   9     Stn.51   12.2.2   Duty Crew Common Areas - Full Repaint   16   7     Stn.51   12.2.2   Duty Crew Common Areas - Touchup Paint   16   15   \$23,113     Stn.51   12.2.3   Duty Crew Sleep Room Interiors - Refurbish   10   9     Stn.51   12.2.4   Duty Crew Kitchen Interiors - Refurbish   10   9     Stn.51   12.2.5   Duty Crew Mestrooms - Refurbish   10   2   \$2,994     Stn.51   12.2.7   Duty Crew Restrooms - Refurbish   10   2   \$2,994     Stn.51   12.2.7   Duty Crew Restrooms - Refurbish   10   2   \$2,094     Stn.51   12.2.7   Duty Crew Restrooms - Refurbish   10   2   \$2,094     Stn.51   12.2.7   Duty Crew Restrooms - Refurbish   10   2   \$2,094     Stn.51   12.2.7   Duty Crew Restrooms - Refurbish   10   2   \$2,094     Stn.51   12.2.8   Duty Crew Selient Flooring - Replace   24   13   \$5,007     Stn.51   12.4.3   Ist Floor Interior Carpet Flooring - Replace   16   5     Stn.51   12.4.3   Ist Floor Resilient Flooring - Replace   16   5     Stn.51   12.4.4   2nd Floor Resilient Flooring - Replace   15   4	-							\$23,339		
Stn.51   11.6.3   Ramair Gear Dryer - Replace   12   1   \$17,111	Stn.51	11.6.1		5	3					
Stn.51   18.1   Air Compressor System - Replace   15   4	Stn.51	11.6.2		12	1			\$13,692		
Stn.51   12.11   Apparatus Bay - Refurbish   25   14   \$111,424   \$11,424   \$111,424	Stn.51	11.6.3	Ramair Gear Dryer - Replace	12	1			\$17,111		
Stn.51   12.12   Admin Common Areas - Repaint   16   5     Stn.51   12.13   Exercise Room - Refurbish   20   9     Stn.51   12.14   Bunk Gear Storage - Refurbish   10   3   \$12,455     Stn.51   12.15   Admin Offices - Refurbish   16   5     Stn.51   12.15   Admin Offices - Refurbish   16   5     Stn.51   12.16   Lobby - Refurbish   15   6     Stn.51   12.17   Public Meeting Room - Refurbish   12   1   \$23,339     Stn.51   12.18   Public & Admin Restrooms - Refurbish   20   9     Stn.51   12.21   Duty Crew Common Areas - Full Repaint   16   7     Stn.51   12.22   Duty Crew Common Areas - Touchup Paint   16   15   \$23,113     Stn.51   12.23   Duty Crew Sleep Room Interiors - Refurbish   10   3   \$38,511     Stn.51   12.24   Duty Crew Kitchen Interiors - Refurbish   10   9     Stn.51   12.25   Duty Crew Laundry Interiors - Refurbish   10   2   \$2,994     Stn.51   12.26   Duty Crew Restrooms - Refurbish   10   2   \$2,994     Stn.51   12.27   Duty Crew Restrooms - Refurbish   10   2   \$2,994     Stn.51   12.27   Duty Crew Restrooms - Refurbish   10   2   \$2,994     Stn.51   12.27   Duty Crew Restrooms - Refurbish   10   2   \$2,994     Stn.51   12.28   Duty Crew Restrooms - Refurbish   10   2   \$2,994     Stn.51   12.29   Duty Crew Restrooms - Refurbish   10   2   \$2,994     Stn.51   12.24   St Floor Interior Carpet Flooring - Replace   16   5     Stn.51   12.24   St Floor Resilient Flooring - Replace   16   5     Stn.51   12.24   2nd Floor Resilient Flooring - Replace   20   9     Stn.51   12.24   2nd Floor Resilient Flooring - Replace   15   4	-									
Stn.51   12.13   Exercise Room - Refurbish   20   9									\$111,424	
Stn.51   12.14   Bunk Gear Storage - Refurbish   10   3   \$12,455										
Stn.51         12.15         Admin Offices - Refurbish         16         5           Stn.51         12.16         Lobby - Refurbish         15         6           Stn.51         12.17         Public Meeting Room - Refurbish         12         1         \$23,339           Stn.51         12.18         Public & Admin Restrooms - Refurbish         20         9           Stn.51         12.21         Duty Crew Common Areas - Full Repaint         16         7           Stn.51         12.22         Duty Crew Common Areas - Touchup Paint         16         15         \$23,113           Stn.51         12.23         Duty Crew Sleep Room Interiors - Refurbish         10         3         \$38,511           Stn.51         12.24         Duty Crew Kitchen Interiors - Refurbish         10         9           Stn.51         12.25         Duty Crew Laundry Interiors - Refurbish         15         4           Stn.51         12.26         Duty Crew Restrooms - Refurbish         15         4           Stn.51         12.27         Duty Crew Restrooms - Refurbish         10         2         \$24,687           Stn.51         12.41         1st Floor Interior Carpet Flooring - Replace         24         13         \$53,027           Stn.51 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>¢12 /55</th> <th></th> <th></th>								¢12 /55		
Stn.51   12,16   Lobby - Refurbish   15   6     5   6     Stn.51   12,17   Public Meeting Room - Refurbish   12   1     \$23,339     Stn.51   12,18   Public & Admin Restrooms - Refurbish   20   9     Stn.51   12,21   Duty Crew Common Areas - Full Repaint   16   7     Stn.51   12,22   Duty Crew Common Areas - Touchup Paint   16   15   \$23,113     Stn.51   12,23   Duty Crew Sleep Room Interiors - Refurbish   10   3   \$38,511     Stn.51   12,24   Duty Crew Kitchen Interiors - Refurbish   10   9     Stn.51   12,25   Duty Crew Laundry Interiors - Refurbish   10   2   \$2,994     Stn.51   12,26   Duty Crew Restrooms - Refurbish   15   4     Stn.51   12,27   Duty Crew Restrooms - Refurbish   10   2   \$24,687     Stn.51   12,27   Duty Crew Restrooms - Refurbish   10   2   \$24,687     Stn.51   12,41   Ist Floor Interior Carpet Flooring - Replace   24   13   \$53,027     Stn.51   12,43   Ist Floor Resilient Flooring - Replace   20   9     Stn.51   12,44   2nd Floor Resilient Flooring - Replace   15   4     Stn.51   12,44   2nd Floor Resilient Flooring - Replace   15   4     Stn.51   12,44   2nd Floor Resilient Flooring - Replace   15   4			_					Ψ12,433		
Stn.51   12.17   Public Meeting Room - Refurbish   12   1   \$23,339	_									
Stn.51   12.21   Duty Crew Common Areas - Full Repaint   16   7			-					\$23,339		
Stn.51         12.2.2         Duty Crew Common Areas - Touchup Paint         16         15         \$23,113           Stn.51         12.2.3         Duty Crew Sleep Room Interiors - Refurbish         10         3         \$38,511           Stn.51         12.2.4         Duty Crew Kitchen Interiors - Refurbish         10         9           Stn.51         12.2.5         Duty Crew Laundry Interiors - Refurbish         10         2         \$2,994           Stn.51         12.2.6         Duty Crew Restrooms - Refurbish         15         4           Stn.51         12.2.7         Duty Crew Restrooms - Refurbish         10         2         \$24,687           Stn.51         12.4.1         1st Floor Interior Carpet Flooring - Replace         24         13         \$53,027           Stn.51         12.4.2         2nd Floor Interior Carpet Flooring - Replace         16         5           Stn.51         12.4.3         1st Floor Resilient Flooring - Replace         20         9           Stn.51         12.4.4         2nd Floor Resilient Flooring - Replace         15         4	Stn.51	12.1.8	Public & Admin Restrooms - Refurbish	20	9					
Stn.51   12.2.3   Duty Crew Sleep Room Interiors - Refurbish   10   3   \$38,511	Stn.51		·							
Stn.51         12.24         Duty Crew Kitchen Interiors - Refurbish         10         9           Stn.51         12.25         Duty Crew Laundry Interiors - Refurbish         10         2         \$2,994           Stn.51         12.26         Duty Crew Office/Training Areas - Refurbish         15         4           Stn.51         12.2.7         Duty Crew Restrooms - Refurbish         10         2         \$24,687           Stn.51         12.4.1         Ist Floor Interior Carpet Flooring - Replace         24         13         \$53,027           Stn.51         12.4.2         2nd Floor Interior Carpet Flooring - Replace         16         5           Stn.51         12.4.3         1st Floor Resilient Flooring - Replace         20         9           Stn.51         12.4.4         2nd Floor Resilient Flooring - Replace         15         4	-									\$23,113
Stn.51         12.2.5         Duty Crew Laundry Interiors - Refurbish         10         2         \$2,994           Stn.51         12.2.6         Duty Crew Office/Training Areas - Refurbish         15         4           Stn.51         12.2.7         Duty Crew Restrooms - Refurbish         10         2         \$24,687           Stn.51         12.4.1         1st Floor Interior Carpet Flooring - Replace         24         13         \$53,027           Stn.51         12.4.2         2nd Floor Resilient Flooring - Replace         16         5           Stn.51         12.4.3         1st Floor Resilient Flooring - Replace         20         9           Stn.51         12.4.4         2nd Floor Resilient Flooring - Replace         15         4			· ·					\$38,511		
Stn.51         12.2.6         Duty Crew Office/Training Areas - Refurbish         15         4           Stn.51         12.2.7         Duty Crew Restrooms - Refurbish         10         2         \$24,687           Stn.51         12.4.1         1st Floor Interior Carpet Flooring - Replace         24         13         \$53,027           Stn.51         12.4.2         2nd Floor Interior Carpet Flooring - Replace         16         5           Stn.51         12.4.3         1st Floor Resilient Flooring - Replace         20         9           Stn.51         12.4.4         2nd Floor Resilient Flooring - Replace         15         4							¢2.004			
Stn.51         12.2.7         Duty Crew Restrooms - Refurbish         10         2         \$24,687           Stn.51         12.4.1         1st Floor Interior Carpet Flooring - Replace         24         13         \$53,027           Stn.51         12.4.2         2nd Floor Interior Carpet Flooring - Replace         16         5           Stn.51         12.4.3         1st Floor Resilient Flooring - Replace         20         9           Stn.51         12.4.4         2nd Floor Resilient Flooring - Replace         15         4							\$2,994			
Stn.51         12.4.1         1st Floor Interior Carpet Flooring - Replace         24         13         \$53,027           Stn.51         12.4.2         2nd Floor Interior Carpet Flooring - Replace         16         5           Stn.51         12.4.3         1st Floor Resilient Flooring - Replace         20         9           Stn.51         12.4.4         2nd Floor Resilient Flooring - Replace         15         4							\$24 687			
Stn.51         12.4.2         2nd Floor Interior Carpet Flooring - Replace         16         5           Stn.51         12.4.3         1st Floor Resilient Flooring - Replace         20         9           Stn.51         12.4.4         2nd Floor Resilient Flooring - Replace         15         4	-						Ψ2-7,007	\$53.027		
Stn.51         12.4.3         1st Floor Resilient Flooring - Replace         20         9           Stn.51         12.4.4         2nd Floor Resilient Flooring - Replace         15         4								,,,		
Stn.51 12.4.4 2nd Floor Resilient Flooring - Replace 15 4										
Stn.51 12.4.5 1st Floor Sheet Flooring - Replace 20 9	Stn.51	12.4.4	2nd Floor Resilient Flooring - Replace							
	Stn.51	12.4.5	1st Floor Sheet Flooring - Replace	20	9					

Stn.51	12.4.6	2nd Floor Sheet Flooring - Replace		15	4	ĺ				
Stn.51	12.4.7	1st Floor Stained Concrete - Refurbish		12	1			\$23,568		
Stn.51	12.6.1	Elevator Cab Interior - Remodel		40	29					
Stn.51	14.1.1	Elevator - Major Upgrades		40	29					
Stn.51	14.1.2	Elevators - 5 Year Load Test		5	5			47.705		\$9,262
Stn.51 Stn.51	15.2.1 15.2.2	Plumbing System - Contingency		5 60	3 49			\$7,785		
Stn.51	15.3.1	Plumbing Supply Lines - Replace Irrigation System - Contingency		10	8					
Stn.51		Storm Water System - Contingency		3	1			\$7,785		
Stn.51	15.4.1	Fire Detection System - Maintenance		5	3			\$3,892		
Stn.51	15.4.2	Fire Sprinkler System - Maintenance		15	4					
Stn.51	15.5.1	Water Heater - Contingency		20	9					
Stn.51	15.6.1	Heat Recovery Unit - Replace		25	14				\$21,367	
Stn.51 Stn.51	15.6.2 15.6.3	Indirect Makeup AHU - Replace Furnace - Replace		20 20	9					
Stn.51	15.6.4			6	4					
Stn.51		HVAC System - Contingency		5	3			\$7,785		
Stn.51	15.6.6	Infrared Heaters - Replace		20	9					
Stn.51	15.7.1	Exhaust Fans - Contingency		5	3			\$11,860		
Stn.51	16.3.1	Electrical System - Contingency		10	8			$\triangle$		
Stn.51 Stn.51	16.5.1 16.5.2	Emergency Generator - Replace Generator Fuel Tank - Replace		30 30	19 19					
Stn.51	16.6.1	Exterior Light Fixtures - Replace		10	9					
Stn.51	16.8.1	Fire Control Panel - Replace		20	9					
Stn.51	16.9.1	Audio/Visual Equipment - Upgrades		15	4					
Stn.51	17.1.1	Fireblast 451 - Maintenance	<u> </u>	10	9					
Stn.51	18.1.1	Security / Surveillance System - Replace		10	1	\$23,017		40.000		
Stn.57	2.6.1	Asphalt Paving - Repair		6	1			\$6,289		
Stn.57 Stn.57	2.6.2 2.7.4	Asphalt Pavement- Seal Coat & Restripe Privacy Wood Fence - Replace		6 15	1 8			\$7,861		
Stn.57	2.7.5	Chain-link Fence - Repair		40	18					
Stn.57	2.9.2	Landscaping - Maintenance		8	6				\$8,096	
Stn.57	2.9.3	Wetland - Maintenance		15	13			\$15,554		
Stn.57	3.3.3	Exterior Concrete Paving - Repair		6	2				\$5,175	
Stn.57	6.1.2	Garbage Bin Enclosure - Contingency		20	18					
Stn.57 Stn.57	6.4.5 7.3.2	Brick Siding - Maintenance Gutters & Downspouts - Replace		20 20	8 11	\$4,544				
Stn.57	7.4.7	Metal Roof - Replace		40	11	\$86,396				
Stn.57	7.4.8	Roof Inspection & Minor Repair		5	5	ψου,υσο				\$5,052
Stn.57	8.2.8	Common Doors & Hardware - Maintenance		10	10					
Stn.57	8.2.6	Overhead Bay Door - Replace		20	8					
Stn.57	8.2.7	Bay Door Operator - Contingency		20	18					
Stn.57	8.3.3	Storefront System - Maintenance		10	8					
Stn.57 Stn.57	8.5.2 9.8.5	Aluminum Framed Windows - Replace Front Entry Steel Framed Structure - Paint		45 10	16 2		\$3,361			
Stn.57		Exterior Signage - Refurbish		15	10		ψ3,301			
Stn.57	11.4.3	Kitchen Equipment - Contingency		5	6	\$19,786				
Stn.57	11.6.4	Laundry Equipment - Contingency		5	3			\$5,129		
Stn.57	11.6.5	Station Extractor - Bunker Gear Washer		12	5					
Stn.57	11.8.2	Air Compressor - Replace		12	11	\$57,635				
Stn.57 Stn.57	12.3.1 12.3.2	Interior Concrete Floor - Refurbish Apparatus Bay - Refurbish		25 10	24 10					
Stn.57		Hallway & Stairwell Walls & Ceiling - Paint		25	10					
Stn.57	12.3.4	Front Reception Desk & Office - Remodel		10	11	\$35,958				
Stn.57	12.3.5	Kitchen - Remodel		10	10					
Stn.57	12.3.6	Day / Dining Room - Remodel		15	10					
Stn.57	12.3.7			20	8					
Stn.57		Exercise Room - Refurbish		15	14				\$48,544	
Stn.57 Stn.57		Locker & Restroom - Refurbish Laundry & Utility Room - Refurbish		15 10	5 8					
Stn.57		Plumbing System - Contingency		10	4				\$8,096	
Stn.57		Irrigation System - Contingency		5	2		\$3,743		+-,000	
Stn.57	15.4.3	Fire Detection System - Maintenance		15	5					
Stn.57		Wet & Dry Fire Sprinkler System - Contingency		10	8					
Stn.57	_	Water Heater - Replace		15	2					
Stn.57 Stn.57		HVAC Units - Replace Furnace - Replace		15 10	6				\$22,256	
Stn.57		Infrared Overhead Heaters - Replace		10	8				ψ <b>∠∠</b> , <b>∠</b> JU	
Stn.57		Exhaust Fans - Contingency		5	3			\$6,777		
Stn.57		Electrical System - Contingency		20	8					
	~	Emergency Generator - Contingency		20	18					
Stn.57		Exterior Light Fixtures - Replace		15	1					
Stn.57		Fire Control Panel - Replace		20	8	¢21 F70				
Stn.57	18.1.2	Security / Surveillance System - Upgrade TOTAL ANTICIPATED ANNUAL RESERVE	EXDENSES	10	1	\$21,578 <b>\$265,298</b>	\$65,857	\$397,171	\$252,786	\$37,427
-		ACCUMULATEI				\$1,464,577	\$1,495,398	\$1,738,043	\$1,659,743	\$1,742,339
		ACCUMULATI	ED DEBITS			\$265,298	\$65,857	\$397,171	\$252,786	\$37,427
		YEAR-END				\$1,199,279	\$1,429,541	\$1,340,872	\$1,406,957	\$1,704,912
		YEARS CONTRIBUTION INFLATION	<b>1</b>	<b>2-10</b> 3%	11-30 4%	11 (2032 ) 4%	12 (2033 ) 4%	13 (2034 ) 4%	14 (2035 ) 4%	15 (2036 ) 4%
		COMPONENT COMPOUND INFLATION	4%	3%	4%	141%	147%	153%	159%	165%
		INTEREST RATE MULTIPLIER	0.5%	2%	3%	3%	3%	3%	3%	3%

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30-YEAR RESERVE STUDY PROJECTIONS WITH STARTING RECOMMENDED FUNDING OF \$182,300 AND COMPOUND INFLATION

		ANNUAL RE	NG RESERVI ESERVE CON	ITRIBUTION	\$1,704,912 \$300,969	\$1,903,316 \$313,008	\$2,169,662 \$325,528	\$2,224,512 \$338,549	<b>16-Nov-21</b> \$1,184,055 \$352,091
			TED INTERES	SSESSMENT	\$53,324 \$0	\$60,192 \$0	\$64,939 \$0	\$50,373 \$0	\$39,405 \$0
		A	MAINT.	NEXT	<b>\$2,059,204</b>	<b>\$2,276,516</b>	<b>\$2,560,128</b>	<b>\$2,613,435</b>	<b>\$1,575,550</b>
C1 - F1	#	COMPONENT NAME	CYCLE	MAINT.	2037	2038	2039	2040	2041
Stn.51 Stn.51	2.4.1	Concrete - Paving Repairs Concrete - Repaint Stalls & Curbs	10 10	3					
Stn.51	2.7.1	Prefinished Metal Fence - Replace	30	19				\$143,734	
Stn.51		Prefinished Metal Fence & Gates - Maintenance	10	3				ψ. 10,70 .	
Stn.51		Gate Operator - Maintenance	3	1	\$2,885			\$3,245	
Stn.51	2.8.1	Wood Benches - Maintenance	10	3					
Stn.51	2.9.1	Landscaping - Maintenance	8	6					
Stn.51	3.3.1	Concrete Walkways - Repair	6	1				\$10,738	
Stn.51		Cast Concrete Retaining Walls - Repair	15	4				\$31,250	
Stn.51 Stn.51	6.1.1	Garbage Bin Enclosure - Repair Pedestal Paver - Maintenance	15 30	4 19				\$4,925 \$3,612	
Stn.51		PVC Thermoplastic Membrane - Replace	30	19				\$7,803	
Stn.51		Brick Siding - Maintenance	20	9				ψ7,003	
Stn.51		CMU Wall - Tuck Point	20	9					
Stn.51		Fiber Cement Board Siding - Repair	10	1					
Stn.51	6.4.4	Metal Siding - Replace	35	24					
Stn.51		Sealant Joints - Replace	15	4				\$44,171	
Stn.51	7.3.1	Scuppers, Gutters & Downspouts - Replace	30	19				\$7,030	
Stn.51	7.4.1	Low Sloped Ribbed Roof - Replace	30	19				\$372,950	
Stn.51 Stn.51	7.4.2	Low Sloped Smooth Roof - Replace	30	19				\$245,749	
Stn.51	7.4.3 7.4.4	Tower Composition Shingles - Replace Tower Metal Roof - Replace	30 50	19 39				\$2,376	
Stn.51	7.4.5	Apparatus Bay Metal Roof - Replace	40	29					
Stn.51	7.4.6	Roof Inspection & Minor Repair	5	3			\$11,607		
Stn.51	8.2.1	Folding Bay Doors & Hardware - Maintenance	5	2		\$10,018			
Stn.51	8.2.2	Overhead Bay Doors & Hardware - Replace	30	19				\$47,647	
Stn.51	8.2.3	Overhead Bay Door Operator - Contingency	5	2		\$23,232			
Stn.51		Coiling Door - Maintenance	30	19				\$19,488	
Stn.51		Doors & Hardware - Maintenance	5	1	\$6,267			¢1F 1O7	
Stn.51 Stn.51		Storefront System - Maintenance Storefront System - Replace	15 60	4 50				\$15,103	
Stn.51		Aluminum Windows - Replace	40	29					
Stn.51		Cedar Wood Siding - Maintenance	6	1				\$43,070	
Stn.51		Concrete Siding - Maintenance	12	1				, -,-	
Stn.51	9.8.3	Exterior Steel - Maintenance	6	4	\$14,011				
Stn.51	9.8.4	Fiber Cement Board Siding - Caulk & Paint	8	1		\$38,624			
Stn.51		Exterior Signage - Refurbish	10	2					
Stn.51		Exterior Mail Pedestal Unit - Replace	25	14					
Stn.51	11.1.1 11.4.1	Propane Forklift - Replace	20 10	8	\$8,757				
Stn.51 Stn.51		Admin Kitchen Equipment - Contingency  Duty Crew Kitchen Equipment - Contingency	5	3	φ0,737		\$28,395		
Stn.51	11.6.1	Laundry Equipment - Contingency	5	3			\$7,076		
Stn.51	11.6.2	Unimac Gear Extractor - Replace	12	1					
Stn.51		Ramair Gear Dryer - Replace	12	1					
Stn.51	11.8.1	Air Compressor System - Replace	15	4				\$17,325	
Stn.51		Apparatus Bay - Refurbish	25	14					
Stn.51	12.1.2	Admin Common Areas - Repaint	16	5					
Stn.51		Exercise Room - Refurbish	20	9					
Stn.51 Stn.51		Bunk Gear Storage - Refurbish Admin Offices - Refurbish	10 16	3 5					
Stn.51		Lobby - Refurbish	15	6					
Stn.51		Public Meeting Room - Refurbish	12	1					
Stn.51		Public & Admin Restrooms - Refurbish	20	9					
Stn.51	12.2.1	Duty Crew Common Areas - Full Repaint	16	7					
Stn.51	12.2.2	Duty Crew Common Areas - Touchup Paint	16	15					
Stn.51		Duty Crew Sleep Room Interiors - Refurbish	10	3				***	
Stn.51		Duty Crew Kitchen Interiors - Refurbish	10	9				\$19,681	
Stn.51 Stn.51	12.2.5	Duty Crew Laundry Interiors - Refurbish Duty Crew Office/Training Areas - Refurbish	10 15	2				\$11,820	
Stn.51		Duty Crew Restrooms - Refurbish	10	2				ψ11,020	
Stn.51		1st Floor Interior Carpet Flooring - Replace	24	13					
Stn.51		2nd Floor Interior Carpet Flooring - Replace	16	5					
Stn.51	12.4.3	1st Floor Resilient Flooring - Replace	20	9					
Stn.51		2nd Floor Resilient Flooring - Replace	15	4				\$5,331	
Stn.51	12.4.5	1st Floor Sheet Flooring - Replace	20	9					

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Stn.51	12.4.6	2nd Floor Sheet Flooring - Replace		15	4				\$81,562	
Stn.51	12.4.7	1st Floor Stained Concrete - Refurbish		12	1					
Stn.51	12.6.1	Elevator Cab Interior - Remodel		40	29					
Stn.51	14.1.1	Elevator - Major Upgrades		40	29					¢11.200
Stn.51	14.1.2	Elevators - 5 Year Load Test Plumbing System - Contingency		5 5	5			\$9,471		\$11,268
Stn.51 Stn.51	15.2.1 15.2.2			60	49			\$9,471		
Stn.51		Irrigation System - Contingency		10	8			\$19,500		
Stn.51		Storm Water System - Contingency		3	1	\$8,757		ψ15,500	\$9,850	
Stn.51	15.4.1			5	3	ψ0,737		\$4,736	Ψ3,030	
Stn.51	15.4.2	-		15	4			ψ4,730	\$15,760	
Stn.51	15.5.1			20	9				ψ.ο,, σσ	
Stn.51	15.6.1	Heat Recovery Unit - Replace		25	14					
Stn.51	15.6.2	Indirect Makeup AHU - Replace		20	9					
Stn.51	15.6.3	Furnace - Replace		20	9					
Stn.51	15.6.4			6	4	\$33,825				
Stn.51		HVAC System - Contingency		5	3			\$9,471		
Stn.51	15.6.6	Infrared Heaters - Replace		20	9				<b>&gt;</b>	
Stn.51	15.7.1	Exhaust Fans - Contingency		5	3			\$14,430		
Stn.51	16.3.1	Electrical System - Contingency		10	8			\$9,471		
Stn.51	16.5.1	Emergency Generator - Replace		30	19				\$38,975	
Stn.51	16.5.2	Generator Fuel Tank - Replace		30	19				\$17,325	
Stn.51	16.6.1	Exterior Light Fixtures - Replace		10	9				\$19,681	
Stn.51	16.8.1	Fire Control Panel - Replace		20	9					
Stn.51	16.9.1	Audio/Visual Equipment - Upgrades		15	4				\$151,594	
Stn.51	17.1.1	Fireblast 451 - Maintenance		10	9				\$19,681	
Stn.51	18.1.1	Security / Surveillance System - Replace		10	1			_		
Stn.57	2.6.1	Asphalt Paving - Repair		6	1				\$7,957	
Stn.57	2.6.2	Asphalt Pavement- Seal Coat & Restripe		6	1				\$9,947	
Stn.57	2.7.4	Privacy Wood Fence - Replace		15	8			*****		
Stn.57	2.7.5	Chain-link Fence - Repair		40	18			\$8,097		
Stn.57	2.9.2	Landscaping - Maintenance		8	6					
Stn.57	2.9.3	Wetland - Maintenance		15	13					¢C F 40
Stn.57	3.3.3	Exterior Concrete Paving - Repair		6 20	2			¢2.041		\$6,548
Stn.57 Stn.57	6.1.2	Garbage Bin Enclosure - Contingency Brick Siding - Maintenance		20	18			\$2,841		
Stn.57	7.3.2	Gutters & Downspouts - Replace		20	11					
Stn.57	7.4.7	Metal Roof - Replace		40	-11					
Stn.57	7.4.8	Roof Inspection & Minor Repair		5	5					\$6,146
Stn.57	8.2.8	Common Doors & Hardware - Maintenance		10	10					\$6,789
Stn.57	8.2.6	Overhead Bay Door - Replace		20	8					ψο,, σο
Stn.57	8.2.7	Bay Door Operator - Contingency		20	18			\$104,128		
Stn.57	8.3.3	Storefront System - Maintenance		10	8			\$36,436		
Stn.57	8.5.2	Aluminum Framed Windows - Replace		45	16	\$52,506		,		
Stn.57	9.8.5	Front Entry Steel Framed Structure - Paint		10	2					
Stn.57	10.4.2	Exterior Signage - Refurbish		15	10					
Stn.57	11.4.3	Kitchen Equipment - Contingency		5	6	\$24,072				
Stn.57	11.6.4	Laundry Equipment - Contingency		5	3			\$6,240		
Stn.57	11.6.5	Station Extractor - Bunker Gear Washer		12	5		\$16,017			
Stn.57	11.8.2	Air Compressor - Replace		12	11					
Stn.57	12.3.1	Interior Concrete Floor - Refurbish		25	24					
Stn.57	12.3.2	Apparatus Bay - Refurbish		10	10					\$27,659
Stn.57		Hallway & Stairwell Walls & Ceiling - Paint		25	10					
Stn.57	12.3.4	Front Reception Desk & Office - Remodel		10	11					¢00 :00
Stn.57	12.3.5	Kitchen - Remodel		10	10					\$20,468
Stn.57	12.3.6	Day / Dining Room - Remodel		15	10					
Stn.57	12.3.7	•		20	8					
Stn.57 Stn.57	12.3.8 12.3.9	Exercise Room - Refurbish Locker & Restroom - Refurbish		15 15	14 5					\$4,000
Stn.57		Laundry & Utility Room - Refurbish		10	8			\$18,924		\$4,098
Stn.57		Plumbing System - Contingency		10	4			Ψ10,3∠4		
Stn.57		Irrigation System - Contingency		5	2		\$4,553			
Stn.57		Fire Detection System - Maintenance		15	5		Ψ-1,000			\$10,244
Stn.57		Wet & Dry Fire Sprinkler System - Contingency		10	8			\$10,418		↓.∪,∠¬¬
Stn.57		Water Heater - Replace		15	2		\$14,410	,		
Stn.57	15.6.7			15	6					
Stn.57		Furnace - Replace		10	4					
Stn.57	15.6.9	Infrared Overhead Heaters - Replace		10	8			\$9,471		
Stn.57	15.7.2	Exhaust Fans - Contingency		5	3			\$8,246		
Stn.57	16.3.2	Electrical System - Contingency		20	8					
Stn.57	16.5.3	Emergency Generator - Contingency		20	18			\$16,658		
Stn.57	16.6.2			15	1	\$4,808				
Stn.57		Fire Control Panel - Replace		20	8					
Stn.57	18.1.2	Security / Surveillance System - Upgrade		10	1					
		TOTAL ANTICIPATED ANNUAL RESERVE				\$155,888	\$106,854	\$335,616	\$1,429,380	\$93,220
		ACCUMULATE ACCUMULAT				\$2,059,204 \$155,888	\$2,276,516 \$106,854	\$2,560,128 \$335,616	\$2,613,435 \$1,429,380	\$1,575,550 \$93,220
			BALANCE			\$1,903,316	\$2,169,662	\$2,224,512	\$1,429,360 \$1,184,055	\$1,482,330
		YEARS	1	2-10	11-30	16 (2037 )	17 (2038 )	18 (2039 )	19 (2040 )	20 (2041)
		CONTRIBUTION INFLATION	0%	3%	4%	4%	17 (2038 )	4%	4%	4%
		COMPONENT COMPOUND INFLATION	4%	3%	4%	172%	179%	186%	193%	201%
		INTEREST RATE MULTIPLIER	0.5%	2%	3%	3%	3%	3%	3%	3%

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30-YEAR RESERVE STUDY PROJECTIONS WITH STARTING RECOMMENDED FUNDING OF \$182,300 AND COMPOUND INFLATION

		ANNUAL F ESTIM		ITRIBUTION ST EARNED SSESSMENT	\$1,482,330 \$366,175 \$44,246 \$0	\$1,511,680 \$380,822 \$47,807 \$0	\$1,723,271 \$396,055 \$51,663 \$0	\$1,772,603 \$411,897 \$56,920 \$0	16-Nov-21 \$2,078,953 \$428,373 \$63,364 \$0
			ACCUMULATI		\$1,892,752	\$1,940,308	\$2,170,989	\$2,241,420	\$2,570,690
	#	COMPONENT NAME	MAINT. CYCLE	NEXT MAINT.	21 <b>2042</b>	22 <b>2043</b>	23 <b>2044</b>	24 <b>2045</b>	25 <b>2046</b>
Stn.51	2.4.1	Concrete - Paving Repairs	10	3	2042	2040	\$41,913	2043	2040
Stn.51	2.4.2	Concrete - Repaint Stalls & Curbs	10	1	\$3,551				
Stn.51	2.7.1	Prefinished Metal Fence - Replace	30	19					
Stn.51	2.7.2	Prefinished Metal Fence & Gates - Maintenance	10	3			\$16,810		
Stn.51	2.7.3	Gate Operator - Maintenance	3	1		\$3,650			\$4,106
Stn.51	2.8.1	Wood Benches - Maintenance	10	3			\$5,061		
Stn.51	2.9.1	Landscaping - Maintenance	8	6		\$33,218			
Stn.51	3.3.1	Concrete Walkways - Repair	6	1					\$13,588
Stn.51	3.3.2	Cast Concrete Retaining Walls - Repair	15	4					
Stn.51 Stn.51	6.1.1	Garbage Bin Enclosure - Repair Pedestal Paver - Maintenance	15 30	19					
Stn.51	6.2.2	PVC Thermoplastic Membrane - Replace	30	19					
Stn.51	6.4.1	Brick Siding - Maintenance	20	9					
Stn.51	6.4.2	CMU Wall - Tuck Point	20	9					
Stn.51	6.4.3	Fiber Cement Board Siding - Repair	10	1	\$13,077				
Stn.51	6.4.4	Metal Siding - Replace	35	24				\$98,622	
Stn.51	7.1.1	Sealant Joints - Replace	15	4					
Stn.51	7.3.1	Scuppers, Gutters & Downspouts - Replace	30	19					
Stn.51	7.4.1	Low Sloped Ribbed Roof - Replace	30	19					
Stn.51	7.4.2	Low Sloped Smooth Roof - Replace	30	19					
Stn.51	7.4.3	Tower Composition Shingles - Replace	30	19					
Stn.51	7.4.4	Tower Metal Roof - Replace	50	39					
Stn.51	7.4.5	Apparatus Bay Metal Roof - Replace	40	29			¢1.4.122		
Stn.51 Stn.51	7.4.6 8.2.1	Roof Inspection & Minor Repair	5 5	2		\$12,188	\$14,122		
Stn.51	8.2.2	Folding Bay Doors & Hardware - Maintenance Overhead Bay Doors & Hardware - Replace	30	19		\$12,100			
Stn.51	8.2.3	Overhead Bay Door Operator - Contingency	5	2		\$28,265			
Stn.51	8.2.4		30	19					
Stn.51	8.2.5	Doors & Hardware - Maintenance	5	1	\$7,625				
Stn.51	8.3.1	Storefront System - Maintenance	15	4					
Stn.51	8.3.2	Storefront System - Replace	60	50					
Stn.51	8.5.1	Aluminum Windows - Replace	40	29					
Stn.51 Stn.51	9.8.1 9.8.2	Cedar Wood Siding - Maintenance Concrete Siding - Maintenance	6 12	1					\$54,497
Stn.51	9.8.3	Exterior Steel - Maintenance	6	4		\$17,728			\$12,610
Stn.51	9.8.4		8	1		ψ17,720			\$52,860
Stn.51	10.4.1		10	2		\$5,540			
Stn.51	10.5.1	Exterior Mail Pedestal Unit - Replace	25	14					
Stn.51	11.1.1	Propane Forklift - Replace	20	8					
Stn.51	11.4.1	Admin Kitchen Equipment - Contingency	10	6					
Stn.51	11.4.2	Duty Crew Kitchen Equipment - Contingency	5	3			\$34,547		
Stn.51	11.6.1	Laundry Equipment - Contingency	5	3			\$8,608		<b>#01.001</b>
Stn.51 Stn.51	11.6.2 11.6.3	Unimac Gear Extractor - Replace Ramair Gear Dryer - Replace	12 12	1					\$21,921 \$27,395
Stn.51	11.8.1	Air Compressor System - Replace	15	4					ΨΖ1,395
Stn.51	12.1.1	Apparatus Bay - Refurbish	25	14					
Stn.51		Admin Common Areas - Repaint	16	5	\$36,787				
Stn.51		Exercise Room - Refurbish	20	9					
Stn.51	12.1.4	Bunk Gear Storage - Refurbish	10	3			\$18,437		
Stn.51	12.1.5		16	5	\$53,227				
Stn.51	12.1.6	Lobby - Refurbish	15	6	\$42,594				
Stn.51	12.1.7	Public Meeting Room - Refurbish	12	1					\$37,366
Stn.51	12.1.8		20	9 7			¢71.670		
Stn.51 Stn.51	12.2.1	Duty Crew Common Areas - Full Repaint  Duty Crew Common Areas - Touchup Paint	16 16	15			\$31,632		
Stn.51	12.2.3		10	3			\$57,006		
Stn.51		Duty Crew Kitchen Interiors - Refurbish	10	9			70.,000		
Stn.51		Duty Crew Laundry Interiors - Refurbish	10	2		\$4,432			
Stn.51		Duty Crew Office/Training Areas - Refurbish	15	4					
Stn.51	12.2.7	Duty Crew Restrooms - Refurbish	10	2		\$36,542			
Stn.51	12.4.1		24	13					
Stn.51		2nd Floor Interior Carpet Flooring - Replace	16	5	\$52,266				
Stn.51		1st Floor Resilient Flooring - Replace	20	9					
C: =-									
Stn.51 Stn.51	12.4.4	2nd Floor Resilient Flooring - Replace 1st Floor Sheet Flooring - Replace	15 20	4 9					

Stn.51	12.4.6	2nd Floor Sheet Flooring - Replace		15	4					
Stn.51	12.4.7	1st Floor Stained Concrete - Refurbish		12	1					\$37,733
Stn.51	12.6.1	Elevator Cab Interior - Remodel		40	29					
Stn.51	14.1.1	Elevator - Major Upgrades		40	29					
Stn.51	14.1.2	Elevators - 5 Year Load Test		5	5					\$13,710
Stn.51	15.2.1	Plumbing System - Contingency		5	3			\$11,523		
Stn.51	15.2.2	Plumbing Supply Lines - Replace		60	49					
Stn.51	15.3.1	Irrigation System - Contingency		10	8					
Stn.51	15.3.2	Storm Water System - Contingency		3	1		\$11,080			\$12,463
Stn.51	15.4.1	Fire Detection System - Maintenance		5	3			\$5,762		
Stn.51	15.4.2	Fire Sprinkler System - Maintenance		15	4					
Stn.51	15.5.1	Water Heater - Contingency		20	9					
Stn.51	15.6.1	Heat Recovery Unit - Replace		25	14					
Stn.51	15.6.2	Indirect Makeup AHU - Replace		20	9					
Stn.51	15.6.3	Furnace - Replace		20	9					
Stn.51	15.6.4	VRF Heat Pump - Contingency		6	4		\$42,799			
Stn.51	15.6.5	HVAC System - Contingency		5	3			\$11,523		
Stn.51	15.6.6	Infrared Heaters - Replace		20	9					
Stn.51	15.7.1	Exhaust Fans - Contingency		5	3			\$17,556		
Stn.51	16.3.1	Electrical System - Contingency		10	8					
Stn.51	16.5.1	Emergency Generator - Replace		30	19					
Stn.51	16.5.2	Generator Fuel Tank - Replace		30	19					
Stn.51	16.6.1	Exterior Light Fixtures - Replace		10	9					
Stn.51	16.8.1	Fire Control Panel - Replace		20	9					
Stn.51	16.9.1	Audio/Visual Equipment - Upgrades		15	4					
Stn.51	17.1.1	Fireblast 451 - Maintenance		10	9					
Stn.51	18.1.1	Security / Surveillance System - Replace		10	1	\$34,071				
Stn.57	2.6.1	Asphalt Paving - Repair		6	1	72 ,,07.				\$10,069
Stn.57	2.6.2	Asphalt Pavement- Seal Coat & Restripe		6	1					\$12,586
Stn.57	2.7.4	Privacy Wood Fence - Replace		15	8			\$13.986		Ψ.Σ,500
Stn.57	2.7.5	Chain-link Fence - Repair		40	18			ψ10,000		
Stn.57	2.9.2	Landscaping - Maintenance		8	6		\$11,080			
Stn.57	2.9.3	Wetland - Maintenance		15	13		ψ11,000			
Stn.57	3.3.3	Exterior Concrete Paving - Repair		6	2					
Stn.57	6.1.2	Garbage Bin Enclosure - Contingency		20	18					
Stn.57	6.4.5			20	8					
		Brick Siding - Maintenance								
Stn.57	7.3.2	Gutters & Downspouts - Replace		20	11					
Stn.57	7.4.7	Metal Roof - Replace		40	11					¢7.470
Stn.57	7.4.8	Roof Inspection & Minor Repair		5	5					\$7,478
Stn.57	8.2.8	Common Doors & Hardware - Maintenance		10	10					
Stn.57	8.2.6	Overhead Bay Door - Replace		20	8					
Stn.57	8.2.7	Bay Door Operator - Contingency		20	18					
Stn.57	8.3.3	Storefront System - Maintenance		10	8					
Stn.57	8.5.2	Aluminum Framed Windows - Replace		45	16					
Stn.57	9.8.5	Front Entry Steel Framed Structure - Paint		10	2		\$4,975			
Stn.57	10.4.2	Exterior Signage - Refurbish		15	10					\$6,232
Stn.57	11.4.3	Kitchen Equipment - Contingency		5	6	\$29,288				
Stn.57	11.6.4	Laundry Equipment - Contingency		5	3			\$7,592		
Stn.57	11.6.5	Station Extractor - Bunker Gear Washer		12	5					
Stn.57	11.8.2	Air Compressor - Replace		12	11			\$92,276		
Stn.57	12.3.1	Interior Concrete Floor - Refurbish		25	24				\$18,916	
Stn.57	12.3.2	Apparatus Bay - Refurbish		10	10					
Stn.57	12.3.3	Hallway & Stairwell Walls & Ceiling - Paint		25	10					
Stn.57	12.3.4	Front Reception Desk & Office - Remodel		10	11	\$53,227				
Stn.57	12.3.5	Kitchen - Remodel		10	10					
Stn.57	12.3.6	Day / Dining Room - Remodel		15	10					\$37,366
Stn.57	12.3.7			20	8					
Stn.57	12.3.8	Exercise Room - Refurbish		15	14					
Stn.57	12.3.9	Locker & Restroom - Refurbish		15	5					
Stn.57		Laundry & Utility Room - Refurbish		10	8					
Stn.57	15.2.3	Plumbing System - Contingency		10	4				\$11,984	
Stn.57		Irrigation System - Contingency		5	2		\$5,540		. ,	
Stn.57	15.4.3	Fire Detection System - Maintenance		15	5		+=,5.0			
Stn.57		Wet & Dry Fire Sprinkler System - Contingency		10	8					
Stn.57		Water Heater - Replace		15	2					
Stn.57	15.6.7	HVAC Units - Replace		15	6	\$23,418				
Stn.57		Furnace - Replace		10	4	\$20,710			\$32,945	
Stn.57		Infrared Overhead Heaters - Replace		10	8				Ψ32,343	
Stn.57		Exhaust Fans - Contingency		5	3			\$10,032		
Stn.57	16.3.2	Electrical System - Contingency		20	8			ψ10,032		
		Emergency Generator - Contingency		20	18					
	~									
Stn.57	16.6.2			15	1					
Stn.57		Fire Control Panel - Replace		20	8	¢71 O 41				
Stn.57	18.1.2	Security / Surveillance System - Upgrade	EVBENCES	10	1	\$31,941	¢017.077	¢700 700	¢160 467	¢701000
		TOTAL ANTICIPATED ANNUAL RESERVE				\$381,072	\$217,037	\$398,386	\$162,467	\$361,980
		ACCUMULATE ACCUMULAT				\$1,892,752 \$381,072	\$1,940,308 \$217,037	\$2,170,989 \$398,386	\$2,241,420 \$162,467	\$2,570,690 \$361,980
			D BALANCE			\$1,511,680	\$1,723,271	\$1,772,603	\$2,078,953	\$2,208,710
		YEARS	1	2-10	11-30	21 (2042 )	22 (2043 )	23 (2044 )	24 (2045 )	25 (2046 )
		CONTRIBUTION INFLATION	0%	3%	4%	21 (2042 )	22 (2043 ) 4%	23 (2044 )	24 (2045)	25 (2046 ) 4%
		COMPONENT COMPOUND INFLATION	4%	3%	4%	209%	217%	226%	235%	244%
		INTEREST RATE MULTIPLIER	0.5%	2%	3%	3%	3%	3%	3%	3%

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30-YEAR RESERVE STUDY PROJECTIONS WITH STARTING RECOMMENDED FUNDING OF \$182,300 AND COMPOUND INFLATION

			CTADTIN	IC DECEDI/I	E BALANCE	\$2,208,710	\$2,660,011	\$3,153,293	\$3,146,321	<b>16-Nov-2</b> \$2,103,347
			NUAL RES	SERVE CON	TRIBUTION	\$445,508	\$463,328	\$481,861	\$501,135	\$521,181
					ST EARNED SSESSMENT	\$71,952 \$0	\$85,911 \$0	\$93,098 \$0	\$77,581 \$0	\$68,403 \$0
					D CREDITS	\$2,726,169	\$3,209,250	\$3,728,252	\$3,725,037	\$2,692,931
		COMPONENT NAME		MAINT.	NEXT	26	27	28	29	30
Stn.51	2.4.1	COMPONENT NAME Concrete - Paving Repairs		CYCLE 10	MAINT.	2047	2048	2049	2050	2051
Stn.51	2.4.2	Concrete - Repaint Stalls & Curbs		10	1					
Stn.51	2.7.1	Prefinished Metal Fence - Replace		30	19					
Stn.51	2.7.2	Prefinished Metal Fence & Gates - Maintenance		10	3					
Stn.51	2.7.3	Gate Operator - Maintenance		3	1			\$4,618		
Stn.51	2.8.1	Wood Benches - Maintenance		10	3					
Stn.51	2.9.1	Landscaping - Maintenance		8 6	6 1					\$45,46
Stn.51 Stn.51	3.3.1 3.3.2	Concrete Walkways - Repair Cast Concrete Retaining Walls - Repair		15	4					
Stn.51	6.1.1	Garbage Bin Enclosure - Repair		15	4					
Stn.51	6.2.1	Pedestal Paver - Maintenance		30	19					
Stn.51	6.2.2	PVC Thermoplastic Membrane - Replace		30	19					
Stn.51	6.4.1	Brick Siding - Maintenance		20	9				\$28,103	
Stn.51	6.4.2	CMU Wall - Tuck Point		20	9				\$156,669	
Stn.51	6.4.3	Fiber Cement Board Siding - Repair		10	1		<u> </u>			
Stn.51	6.4.4	Metal Siding - Replace		35 15	24					
Stn.51	7.1.1	Scuppers Gutters & Downspouts - Peplace		15 30	4 19					
Stn.51 Stn.51	7.3.1 7.4.1	Scuppers, Gutters & Downspouts - Replace Low Sloped Ribbed Roof - Replace		30	19					
Stn.51	7.4.2	Low Sloped Smooth Roof - Replace		30	19					
Stn.51	7.4.3	Tower Composition Shingles - Replace		30	19					
Stn.51	7.4.4	Tower Metal Roof - Replace		50	39					
Stn.51	7.4.5	Apparatus Bay Metal Roof - Replace		40	29				\$47,515	
Stn.51	7.4.6	Roof Inspection & Minor Repair		5	3			\$17,181		
Stn.51	8.2.1	Folding Bay Doors & Hardware - Maintenance		5	2		\$14,829			
Stn.51	8.2.2	Overhead Bay Doors & Hardware - Replace		30	19		¢74700			
Stn.51 Stn.51	8.2.3 8.2.4	Overhead Bay Door Operator - Contingency Coiling Door - Maintenance		5 30	2 19		\$34,388			
Stn.51	8.2.5	Doors & Hardware - Maintenance		5	1	\$9,277				
Stn.51	8.3.1	Storefront System - Maintenance		15	4	40,2,7				
Stn.51	8.3.2	Storefront System - Replace		60	50					
Stn.51	8.5.1	Aluminum Windows - Replace		40	29				\$503,970	
Stn.51	9.8.1	Cedar Wood Siding - Maintenance		6	1					
Stn.51	9.8.2	Concrete Siding - Maintenance		12	1					
Stn.51 Stn.51	9.8.3	Exterior Steel - Maintenance		6 8	1			\$22,432		
Stn.51	10.4.1	Fiber Cement Board Siding - Caulk & Paint Exterior Signage - Refurbish		10	2					
Stn.51	10.5.1	Exterior Mail Pedestal Unit - Replace		25	14					
Stn.51	11.1.1	Propane Forklift - Replace		20	8			\$61,659		
Stn.51	11.4.1	Admin Kitchen Equipment - Contingency		10	6	\$12,962				
Stn.51	11.4.2	Duty Crew Kitchen Equipment - Contingency		5	3			\$42,032		
Stn.51	11.6.1	Laundry Equipment - Contingency		5	3			\$10,474		
Stn.51	11.6.2	Unimac Gear Extractor - Replace		12	1					
Stn.51 Stn.51	11.6.3	Ramair Gear Dryer - Replace		12 15	1 4					
Stn.51	12.1.1	Air Compressor System - Replace Apparatus Bay - Refurbish		25	14					
Stn.51	12.1.2	Admin Common Areas - Repaint		16	5					
Stn.51	12.1.3	Exercise Room - Refurbish		20	9				\$8,748	
Stn.51	12.1.4	Bunk Gear Storage - Refurbish		10	3					
Stn.51	12.1.5	Admin Offices - Refurbish		16	5					
Stn.51	12.1.6	Lobby - Refurbish		15	6					
Stn.51	12.1.7	Public Meeting Room - Refurbish		12	1				¢EC 000	
Stn.51 Stn.51	12.1.8 12.2.1	Public & Admin Restrooms - Refurbish Duty Crew Common Areas - Full Repaint		20 16	9 7				\$56,092	
Stn.51 Stn.51	12.2.1	Duty Crew Common Areas - Full Repaint  Duty Crew Common Areas - Touchup Paint		16	15					
Stn.51	12.2.3	Duty Crew Sleep Room Interiors - Refurbish		10	3					
Stn.51	12.2.4	Duty Crew Kitchen Interiors - Refurbish		10	9				\$29,132	
Stn.51	12.2.5	Duty Crew Laundry Interiors - Refurbish		10	2				•	
Stn.51	12.2.6	Duty Crew Office/Training Areas - Refurbish		15	4					
Stn.51	12.2.7	Duty Crew Restrooms - Refurbish		10	2					
Stn.51	12.4.1	1st Floor Interior Carpet Flooring - Replace		24	13					
Stn.51	12.4.2	2nd Floor Interior Carpet Flooring - Replace		16	5				¢C 710	
Stn.51	12.4.3	1st Floor Resilient Flooring - Replace 2nd Floor Resilient Flooring - Replace		20 15	9				\$6,718	
Stn.51 Stn.51	12.4.4	1st Floor Sheet Flooring - Replace		20	9				\$93,801	
301.31	12.4.3	ist i foot sheet Flooring - Replace	J	20	3				ψυυ,ου1	

				_						
Stn.51	12.4.6	2nd Floor Sheet Flooring - Replace		15	4					
Stn.51	12.4.7	1st Floor Stained Concrete - Refurbish		12	1					
Stn.51	12.6.1	Elevator Cab Interior - Remodel		40	29				\$17,497	
Stn.51	14.1.1			40	29				\$364,283	¢10 000
Stn.51 _ Stn.51	14.1.2 15.2.1	Elevators - 5 Year Load Test Plumbing System - Contingency		5 5	5			\$14,020		\$16,680
Stn.51		Plumbing Supply Lines - Replace		60	49			Ψ14,020		
Stn.51	15.3.1	Irrigation System - Contingency		10	8			\$28,864		
Stn.51		Storm Water System - Contingency		3	1			\$14,020		
Stn.51	15.4.1	Fire Detection System - Maintenance		5	3			\$7,010		
Stn.51	15.4.2	Fire Sprinkler System - Maintenance		15	4					
Stn.51	15.5.1	Water Heater - Contingency		20	9				\$47,458	
Stn.51	15.6.1	Heat Recovery Unit - Replace		25	14					
Stn.51	15.6.2	Indirect Makeup AHU - Replace		20	9				\$28,846	
Stn.51	15.6.3	Furnace - Replace		20	9				\$6,404	
Stn.51	15.6.4	VRF Heat Pump - Contingency		6	4			\$54,155		
Stn.51		HVAC System - Contingency		5	3			\$14,020		
Stn.51	15.6.6	Infrared Heaters - Replace		20	9			404 750	\$44,227	
Stn.51	15.7.1	Exhaust Fans - Contingency		5	3			\$21,359		
Stn.51	16.3.1	Electrical System - Contingency		10 30	8 19			\$14,020		
Stn.51 Stn.51	16.5.1 16.5.2	Emergency Generator - Replace Generator Fuel Tank - Replace		30	19					
Stn.51	16.6.1	· · · · · · · · · · · · · · · · · · ·		10	9				\$29,132	
Stn.51	16.8.1			20	9				\$10.892	
Stn.51	16.9.1	Audio/Visual Equipment - Upgrades		15	4				ψ10,032	
Stn.51	17.1.1	Fireblast 451 - Maintenance		10	9				\$29,132	
Stn.51	18.1.1	Security / Surveillance System - Replace		10	1				, -, -	
Stn.57	2.6.1	Asphalt Paving - Repair		6	1					
Stn.57	2.6.2	Asphalt Pavement- Seal Coat & Restripe		6	1					
Stn.57	2.7.4	Privacy Wood Fence - Replace		15	8					
Stn.57	2.7.5	Chain-link Fence - Repair		40	18					
Stn.57	2.9.2	Landscaping - Maintenance		8	6					\$15,164
Stn.57	2.9.3	Wetland - Maintenance		15	13			\$28,012		
Stn.57	3.3.3	Exterior Concrete Paving - Repair		6	2	\$8,286				
Stn.57	6.1.2	Garbage Bin Enclosure - Contingency		20	18					
Stn.57	6.4.5	Brick Siding - Maintenance		20	8			\$35,956		
Stn.57	7.3.2	Gutters & Downspouts - Replace		20	11					
Stn.57	7.4.7	Metal Roof - Replace		40	11					\$0.000
Stn.57	7.4.8 8.2.8	Roof Inspection & Minor Repair Common Doors & Hardware - Maintenance		5 10	5 10	4				\$9,098 \$10,050
Stn.57 Stn.57	8.2.6	Overhead Bay Door - Replace		20	8			\$15,971		\$10,050
Stn.57	8.2.7	Bay Door Operator - Contingency		20	18			ψ15,571		
Stn.57	8.3.3	Storefront System - Maintenance		10	8			\$53,935		
Stn.57	8.5.2	Aluminum Framed Windows - Replace		45	16			,,,,,,,		
Stn.57	9.8.5	Front Entry Steel Framed Structure - Paint		10	2					
Stn.57	10.4.2	-		15	10					
Stn.57	11.4.3	Kitchen Equipment - Contingency		5	6	\$35,633				
Stn.57	11.6.4	Laundry Equipment - Contingency		5	3			\$9,237		
Stn.57	11.6.5	Station Extractor - Bunker Gear Washer		12	5				\$25,645	
Stn.57	11.8.2	Air Compressor - Replace		12	11					
Stn.57	12.3.1	Interior Concrete Floor - Refurbish		25	24					A 40 0 40
Stn.57	12.3.2			10 25	10 10					\$40,942
Stn.57 Stn.57	12.3.3	Hallway & Stairwell Walls & Ceiling - Paint Front Reception Desk & Office - Remodel		10	11					
Stn.57	12.3.4 12.3.5	Kitchen - Remodel		10	10					\$30,298
Stn.57 _	12.3.6	Day / Dining Room - Remodel		15	10					ψ30,230
Stn.57	12.3.7			20	8			\$14,020		
Stn.57	12.3.8	Exercise Room - Refurbish		15	14			. ,	\$87,426	
Stn.57	12.3.9			15	5				-	
Stn.57	12.3.10	Laundry & Utility Room - Refurbish		10	8			\$28,012		
Stn.57	15.2.3	Plumbing System - Contingency	-	10	4		<del> </del>		<del></del>	
Stn.57		Irrigation System - Contingency		5	2		\$6,740			
Stn.57	15.4.3	Fire Detection System - Maintenance		15	5					
Stn.57		Wet & Dry Fire Sprinkler System - Contingency		10	8			\$15,422		
Stn.57	$\overline{}$	Water Heater - Replace		15	2					
Stn.57	15.6.7	·		15 10	6 4					
Stn.57 Stn.57		Furnace - Replace Infrared Overhead Heaters - Replace		10	8			\$14.020		
Stn.57		Exhaust Fans - Contingency		5	3			\$14,020 \$12,205		
Stn.57		Electrical System - Contingency		20	8			\$12,205		
_	-	Emergency Generator - Contingency		20	18			Ψ10,301		
Stn.57	16.6.2			15	1					
Stn.57		Fire Control Panel - Replace		20	8			\$10,776		
Stn.57	18.1.2	Security / Surveillance System - Upgrade		10	1					
		TOTAL ANTICIPATED ANNUAL RESERVE	EXPENSES			\$66,158	\$55,957	\$581,931	\$1,621,690	\$167,693
		ACCUMULATE				\$2,726,169	\$3,209,250	\$3,728,252	\$3,725,037	\$2,692,931
		ACCUMULAT YEAR-END	BALANCE			\$66,158 <b>\$2,660,011</b>	\$55,957 <b>\$3,153,293</b>	\$581,931 <b>\$3,146,321</b>	\$1,621,690 <b>\$2,103,347</b>	\$167,693 <b>\$2,525,238</b>
				0.10	11 70	_				
		YEARS CONTRIBUTION INFLATION	<b>1</b> 0%	<b>2-10</b> 3%	11-30 4%	26 (2047 ) 4%	27 (2048 ) 4%	28 (2049 ) 4%	29 (2050 ) 4%	30 (2051) 4%
		COMPONENT COMPOUND INFLATION	4%	3%	4%	254%	264%	275%	286%	297%
		INTEREST RATE MULTIPLIER	0.5%	2%	3%	3%	3%	3%	3%	3%

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COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

16-Nov-21

#### Stn.51 2.4.1 Concrete - Paving Repairs

Site

Maintenance Cycle: 10 years

Next Maintenance: Year 3 (2024)

Quantity: 65,610 Square Feet

**Unit Cost:** \$8.56 / SF

**Estimate:** 65,610 SF X 3% X \$8.56/SF = \$16,849 + tax = \$18,550

2021 Notes: The Station feels the pavers are not yet in need of repairs and predicts this will be needed in 2024.

**FUTURE MAINTENANCE** YEAR COST 3 (2024) \$20,467 13 (2034) \$28,315 23 (2044) \$41,913

Previous Notes: There is a large paved area adjacent to Station 51 providing public parking, secured access parking, entry to the Apparatus Bay and a significant paved area around the training tower. Due to the brittle nature of concrete, periodic repairs will be necessary. Funds are budgeted in conjunction with repainting since the same contractor can often complete both projects. It was reported that there are a few areas of concern that will likely be addressed in the near future.

Stn.51 2.4.2 Concrete - Repaint Stalls & Curbs

Site

Maintenance Cycle: 10 years

Next Maintenance: Year 1 (2022) Unit Cost: \$20.32 / EA

Quantity: 76 Each

**Estimate:** 76 EA X 100% X \$20.32/EA = \$1,544 + tax = \$1,700

2021 Notes: The Station requests the maintenance cycle be moved to 2022.

Previous Notes: Periodic deep cleaning and restriping of the stalls and curbs will be necessary as the concrete is exposed to the elements. We understand that the Station power washes the concrete as needed. The striping in the parking area is coming to the end of its useful life.

FUTURE MAINTENANCE			
YEAR	COST		
1 (2022)	\$1,768		
11 (2032)	\$2,399		
21 (2042)	\$3,551		

### Stn.51 2.7.1 Prefinished Metal Fence - Replace

Site

Maintenance Cycle: 30 years

Next Maintenance: Year 19 (2040)

Quantity: 885 Linear Feet

Unit Cost: \$76.38 / LF

**Estimate:** 885 LF X 100% X \$76.38/LF = \$67,596 + tax = \$74,420

2021 Notes: No new updates were reported.

Previous Notes: The fencing is factory finished metal and should require minimal maintenance. The budget provides funds to replace the fencing, three walk through gates and one swing gate at the end of its anticipated useful life. The fence and gates were in good condition overall.

FUTURE MAINTENANCE			
YEAR	COST		
19 (2040)	\$143,734		

## Stn.51 2.7.2 Prefinished Metal Fence & Gates - Maintenance

Site

Maintenance Cycle: 10 years

Next Maintenance: Year 3 (2024)

Quantity: 885 Linear Feet

Unit Cost: \$76.36 / LF

**Estimate:** 885 LF X 10% X \$76.36/LF = \$6,758 + tax = \$7,440

2021 Notes: No new updates were reported.

Previous Notes: This component budgets funds for periodic repairs to the fencing and gates. including touch up painting, as needed. No areas of concern were noted.

FUTURE MAINTENANCE			
YEAR	COST		
3 (2024)	\$8,209		
13 (2034)	\$11,356		
23 (2044)	\$16,810		



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

16-Nov-21

Site

#### Stn.51 2.7.3 Gate Operator - Maintenance

Next Maintenance: Year 1 (2022)

Maintenance Cycle: 3 years Quantity: 1 Each

Unit Cost: \$1,525.89 / EA

**Estimate:** 1 EA X 100% X \$1,525.89/EA = \$1,526 + tax = \$1,680

2021 Notes: No new updates were reported.

Previous Notes: A hydraulic swing gate with photo eyes controls access to the upper section of the parking lot. It was reported that the in-ground sensors had approximately \$1,500 worth of work completed in the recent past. The photo eyes were out of service at the time of our site visit. The budget is intended to fund periodic repairs to the various components of the gate operator. The next maintenance is budgeted in three years since it is assumed that the sensors will be fixed this vear.

FUTURE MAINTENANCE				
YEAR	COST			
1 (2022)	\$1,747			
4 (2025)	\$1,909			
7 (2028)	\$2,086			
10 (2031)	\$2,280			
13 (2034)	\$2,564			
Repeat Every 3 Years				

### Stn.51 2.8.1 Wood Benches - Maintenance

Site

Maintenance Cycle: 10 years

Next Maintenance: Year 3 (2024)

Quantity: 4 Each

Unit Cost: \$508.63 / EA

**Estimate:** 4 EA X 100% X \$508.63/EA = \$2,035 + tax = \$2,240

2021 Notes: No new updates were reported.

Previous Notes: Wood benches are built into the cast in place concrete and will require periodic maintenance. The benches were weathering well and were in use while we were on site.

FUTURE MAINTENANCE		
YEAR	COST	
3 (2024)	\$2,471	
13 (2034)	\$3,419	
23 (2044)	\$5,061	

### Stn.51 2.9.1 Landscaping - Maintenance

Site

Maintenance Cycle: 8 years

Next Maintenance: Year 6 (2027)

**Quantity: 1 Lump Sum Estimate:** \$15,290

**Unit Cost:** \$15,290.00 / LS

2021 Notes: No new updates were reported.

Previous Notes: Approximately \$11,000 was spent in 2019 on landscaping. The landscaping budget provides funds for major updates to the landscaping as plants mature, outgrow their beds and/or for tree maintenance.

FUTURE MAINTENANCE			
YEAR	COST		
6 (2027)	\$18,434		
14 (2035)	\$24,272		
22 (2043)	\$33,218		
30 (2051)	\$45,461		

# Stn.51 3.3.1 Concrete Walkways - Repair

Concrete

Maintenance Cycle: 6 years

Next Maintenance: Year 1 (2022)

Quantity: 5,700 Square Feet

**Unit Cost:** \$8.86 / SF

**Estimate:** 5,700 SF X 10% X \$8.86/SF = \$5,050 + tax = \$5,560

2021 Notes: No new updates were reported.

Previous Notes: While the City of Kenmore owns the sidewalks, the responsibility for repairing sidewalks typically rests on the property owner. No trip hazards were noted while on site. We budget to repair up to 3% of the concrete walkways, curbs and pavement each repair cycle. We recommend grinding or cutting the concrete to resolve trip hazards where possible. Cracks, spalling and/or damaged areas that cannot be corrected by grinding are intended to be covered by this budget.

FUTURE MAINTENANCE			
YEAR	COST		
1 (2022)	\$5,782		
7 (2028)	\$6,904		
13 (2034)	\$8,487		
19 (2040)	\$10,738		
25 (2046)	\$13,588		



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

16-Nov-21

Concrete

#### Stn.51 3.3.2 Cast Concrete Retaining Walls - Repair

Next Maintenance: Year 4 (2025)

Maintenance Cycle: 15 years Quantity: 740 Linear Feet

Unit Cost: \$397.18 / LF

**Estimate:** 740 LF X 5% X \$397.18/LF = \$14,696 + tax = \$16,180

2021 Notes: No new updates were reported.

Previous Notes: We do not anticipate that the concrete retaining walls will need to be replaced within the next 30 years. This component budgets funds for inspections and repairs to ensure the integrity of the walls flanking the perimeter of the parking lot. The walls appeared to be performing well.

FUTURE MAINTENANCE		
YEAR	COST	
4 (2025)	\$18,388	
19 (2040)	\$31,250	

## Stn.51 6.1.1 Garbage Bin Enclosure - Repair

Ext Envelope

Maintenance Cycle: 15 years **Quantity:** 1 Lump Sum Next Maintenance: Year 4 (2025) **Unit Cost:** \$2,550.00 / LS

**Estimate:** \$2,550

2021 Notes: No new updates were reported.

Previous Notes: The garbage bin enclosure is constructed of cast in place concrete walls with steel framed gates with wood infill. Periodic repairs will be necessary, as will maintenance to the wood to keep the gates in optimal condition. The gates appeared to be serviceable and weathering well.

FUTURE MAINTENANCE		
YEAR	COST	
4 (2025)	\$2,898	
19 (2040)	\$4,925	

#### Stn.51 6.2.1 Pedestal Paver - Maintenance

**Ext Envelope** 

Maintenance Cycle: 30 years

Next Maintenance: Year 19 (2040)

Quantity: 180 Square Feet

Unit Cost: \$37.74 / SF

**Estimate:** 180 SF X 25% X \$37.74/SF = \$1,698 + tax = \$1,870

2021 Notes: No new updates were reported.

Previous Notes: The 2nd floor outdoor patio has concrete pavers on pedestals which will need to be removed to replace the waterproofing membrane underneath. This component provides funds to replace up to 25% of the pavers if needed. The pavers appeared to be wearing well, with no obvious cracks or staining noted.

FUTURE MAINTENANCE			
YEAR	COST		
19 (2040)	\$3,612		

## Stn.51 6.2.2 PVC Thermoplastic Membrane - Replace

**Ext Envelope** 

Maintenance Cycle: 30 years

Next Maintenance: Year 19 (2040) Unit Cost: \$20.39 / SF

Quantity: 180 Square Feet **Estimate:** 180 SF X 100% X \$20.39/SF = \$3,670 + tax = \$4,040

2021 Notes: No new updates were reported.

Previous Notes: A PVC thermoplastic membrane was specified as the waterproofing membrane under the patio pedestal pavers. The membrane will need to be periodically replaced as the material degrades to ensure it keeps out moisture as designed. The Station is likely to realize savings if the deck's membrane is replaced in conjunction with the roofing membrane to safe on contractor mobilization fees. We were not able to observe the membrane during the site visit, but understand that there are no outstanding issues.

FUTURE MAINTENANCE			
YEAR	COST		
19 (2040)	\$7,803		



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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### Stn.51 6.4.1 Brick Siding - Maintenance

**Ext Envelope** 

Maintenance Cycle: 20 years

Next Maintenance: Year 9 (2030)

Quantity: 7,010 Square Feet

Unit Cost: \$25.47 / SF

**Estimate:** 7,010 SF X 5% X \$25.47/SF = \$8,927 + tax = \$9,830

2021 Notes: No new updates were reported.

YEAR COST 9 (2030) \$12,950 \$28,103

**FUTURE MAINTENANCE** 

Previous Notes: Two types of brick provide texture to the exterior of the building. We do not anticipate that the brick will need replacement over the next 30 years. This component budgets funds for periodic tuck pointing and/or steam cleaning to keep the building in optimal condition. At 29 (2050) this time there is not a budget for sealing the brick and do not recommend doing so unless a specific water intrusion issue arises.

Stn.51 6.4.2 CMU Wall - Tuck Point

Ext Envelope

Maintenance Cycle: 20 years

Next Maintenance: Year 9 (2030)

Quantity: 6,515 Square Feet

**Unit Cost:** \$7.64 / SF

**Estimate:** 6,515 SF X 100% X \$7.64/SF = \$49,775 + tax = \$54,800

2021 Notes: No new updates were reported.

Previous Notes: The training tower is constructed of split face and smooth face CMU. We anticipate that the CMU will not need to be replaced within the next 30 years. Periodic tuck pointing of the mortar joints may be needed in the future, which this component is intended to fund.

FUTURE MAINTENANCE	
YEAR	COST
9 (2030)	\$72,196
29 (2050)	\$156,669

Stn.51 6.4.3 Fiber Cement Board Siding - Repair

**Ext Envelope** 

Maintenance Cycle: 10 years

Next Maintenance: Year 1 (2022)

Quantity: 6,420 Square Feet

Unit Cost: \$29.52 / SF

**Estimate:** 6,420 SF X 3% X \$29.52/SF = \$5,686 + tax = \$6,260

2021 Notes: The Station requests the next maintenance cycle be moved to 2022.

Previous Notes: Some areas of Station 51 have fiber cement board, which appears to be weathering well overall. A few cracked boards were noted in the HVAC well area, which we recommend be replaced with the next repainting.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$6,510
11 (2032)	\$8,834
21 (2042)	\$13,077

## Stn.51 6.4.4 Metal Siding - Replace

**Ext Envelope** 

Maintenance Cycle: 35 years Quantity: 2,340 Square Feet

Next Maintenance: Year 24 (2045) Unit Cost: \$16.29 / SF

**Estimate:** 2,340 SF X 100% X \$16.29/SF = \$38,119 + tax = \$41,970

2021 Notes: No new updates were reported.

Previous Notes: The metal siding is located along the apparatus bay exterior and above some windows. The factory finished panels are weathering as expected and are expected to require minimal maintenance. This component budgets for replacement of the panels at the end of their anticipated useful life.

FUTURE MAINTENANCE	
YEAR	COST
24 (2045)	\$98,622



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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### Stn.51 7.1.1 Sealant Joints - Replace

**Ext Envelope** 

Maintenance Cycle: 15 years

Quantity: 1,700 Linear Feet

Next Maintenance: Year 4 (2025)

Unit Cost: \$12.22 / LF

**Estimate:** 1,700 LF X 100% X \$12.22/LF = \$20,774 + tax = \$22,870

2021 Notes: No new updates were reported.

Previous Notes: Sealant joints will need to be periodically inspected and replaced. Areas that are failing should be removed and recaulked to maintain an effective barrier against moisture. As the building ages, it is likely that not all of the sealant will need to be replaced at once; areas with the most weather exposure will have the shortest useful life. The budgets reflects total replacement until the pattern of wear is determined. This component focuses on sealant joints in areas with masonry, specifically around doors and windows. Sealant joints in the areas with fiber cement board should be addressed with each paint cycle.

A FUTURE MAINTENANCE		
FUTURE MAINTENANCE		
YEAR	COST	
4 (2025)	\$25,990	
19 (2040)	\$44,171	

#### Stn.51 7.3.1 Scuppers, Gutters & Downspouts - Replace

Ext Envelope

Maintenance Cycle: 30 years

**Quantity:** 560 Linear Feet

Unit

**Unit Cost:** \$5.90 / LF

Next Maintenance: Year 19 (2040)

**Estimate:** 560 LF X 100% X \$5.90/LF = \$3,304 + tax = \$3,640

2021 Notes: No new updates were reported.

Previous Notes: The building has a combination of scuppers, downspouts and gutters. All appeared to be functioning as expected and attached appropriately. We budget for replacing these components in conjunction with the roof replacement since the two systems are integrated.

FUTURE MAINTENANCE	
YEAR	COST
19 (2040)	\$7,030

#### Stn.51 7.4.1 Low Sloped Ribbed Roof - Replace

**Ext Envelope** 

Maintenance Cycle: 30 years

Next Maintenance: Year 19 (2040)

Quantity: 101 Roofing Squares

Unit Cost: \$1,731.35 / SQ

**Estimate:** 101 SQ X 100% X \$1,731.35/SQ = \$175,386 + tax = \$193,100

2021 Notes: No new updates were reported.

Previous Notes: Visible sections of the roof have a Sika Sarnafil Décor membrane system, giving the roof the appearance of a standing metal seam roof. The system is a thermoplastic PVC membrane. No issues were reported and the roof was clean with no concerns noted.

FUTURE MAINTENANCE	
YEAR	COST
19 (2040)	\$372,950

## Stn.51 7.4.2 Low Sloped Smooth Roof - Replace

**Ext Envelope** 

Maintenance Cycle: 30 years

Next Maintenance: Year 19 (2040)

Quantity: 95 Roofing Squares

Unit Cost: \$1,222.16 / SQ

**Estimate:** 95 SQ X 100% X \$1,222.16/SQ = \$115,567 + tax = \$127,240

2021 Notes: No new updates were reported.

Previous Notes: Sections of the roof that are not visible from the ground have a smooth Sika Sarnafil thermoplastic PVC membrane system. The roof has good slope and no concerns were noted while on site. The HVAC well area had some water ponding, which is to be expected in an area with little slope. This area in particular should be monitored for issues with the membrane, especially after severe weather events.

FUTURE MAINTENANCE	
YEAR	COST
19 (2040)	\$245,749



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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#### Stn.51 7.4.3 Tower Composition Shingles - Replace

**Ext Envelope** 

Maintenance Cycle: 30 years

Next Maintenance: Year 19 (2040)

**Quantity:** 2 Roofing Squares

Unit Cost: \$558.58 / SQ

**Estimate:** 2 SQ X 100% X \$558.58/SQ = \$1,117 + tax = \$1,230

2021 Notes: No new updates were reported.

**FUTURE MAINTENANCE** YEAR COST 19 (2040) \$2,376

Previous Notes: The Tower has a small section of roofing with asphalt composition shingles. Since the shingles are not over occupied space, the useful life is longer than normally budgeted. The shingles appeared to be wearing as anticipated.

Stn.51 7.4.4 Tower Metal Roof - Replace

Ext Envelope

Maintenance Cycle: 50 years

**Quantity:** 6 Roofing Squares

Next Maintenance: Year 39 (2060) Unit Cost: \$794.73 / SQ

**Estimate:** 6 SQ X 100% X \$794.73/SQ = \$4,768 + tax = \$5,250

2021 Notes: No new updates were reported.

**FUTURE MAINTENANCE** YEAR COST

Previous Notes: The tallest roof on the Tower is metal standing seam. We were not able to observe the top of the roof directly, but since it is not located over occupied space the anticipated useful life has been extended. From the ground the roof appeared to be functioning as expected.

## Stn.51 7.4.5 Apparatus Bay Metal Roof - Replace

**Ext Envelope** 

Maintenance Cycle: 40 years

Next Maintenance: Year 29 (2050) Unit Cost: \$794.49 / SQ

**Quantity:** 19 Roofing Squares

**Estimate:** 19 SQ X 100% X \$794.49/SQ = \$15,095 + tax = \$16,620

2021 Notes: No new updates were reported.

**FUTURE MAINTENANCE YEAR** COST 29 (2050) \$47,515

Previous Notes: The support areas adjacent to the Apparatus Bay have a standing metal seam roof. The roof was clean and was weathering as expected. This component budgets for replacing the roof at the end of its typical useful life.

# Stn.51 7.4.6 Roof Inspection & Minor Repair

**Ext Envelope** 

Maintenance Cycle: 5 years

Next Maintenance: Year 3 (2024)

**Quantity:** 223 Roofing Squares

**Unit Cost:** \$509.44 / SQ

Estimate: 223 SQ X 5% X \$509.44/SQ = \$5,677 + tax = \$6,250

2021 Notes: No new updates were reported.

Previous Notes: We have allocated up to 5% cost of replacing the PVC roof to for repairs to any of the roofs and associated components, such as flashing. Due to the considerable damage potential a leaking roof can cause, we recommend regular cleanings and inspections to maintain the integrity of the weatherproof membrane, flashing and joints.

FUTURE MAINTENANCE	
YEAR	COST
3 (2024)	\$6,896
8 (2029)	\$7,994
13 (2034)	\$9,540
18 (2039)	\$11,607
23 (2044)	\$14,122
Repeat Every 5 Years	



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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#### Stn.51 8.2.1 Folding Bay Doors & Hardware - Maintenance

**Ext Envelope** 

Maintenance Cycle: 5 years

Quantity: 5 Each

Next Maintenance: Year 2 (2023)

Unit Cost: \$10,190.74 / EA

**Estimate:** 5 EA X 10% X \$10,190.74/EA = \$5,095 + tax = \$5,610

2021 Notes: No new updates were reported.

Previous Notes: The folding bay doors facing 73rd Ave NE have integrated opening hardware and are reportedly operating well. We have budgeted a contingency for maintenance since we do not anticipate that the doors will need total replacement within the next 30 years.

FUTURE MAINTENANCE	
YEAR	COST
2 (2023)	\$6,009
7 (2028)	\$6,967
12 (2033)	\$8,234
17 (2038)	\$10,018
22 (2043)	\$12,188
Repeat Eve	ery 5 Years

## Stn.51 8.2.2 Overhead Bay Doors & Hardware - Replace

Ext Envelope

Maintenance Cycle: 30 years

Quantity: 4 Each

Next Maintenance: Year 19 (2040)

Unit Cost: \$5,601.73 / EA

**Estimate:** 4 EA X 100% X \$5,601.73/EA = \$22,407 + tax = \$24,670

2021 Notes: No new updates were reported.

Previous Notes: The Apparatus Bay sectional overhead doors facing the parking area have a metal exterior face and fiberglass interior with glass insets. We budget for periodic replacement of the doors to ensure they are operational at all times. We anticipate that funds for regular maintenance, such as spring replacement, will be paid for out of the operating budget.

FUTURE MAINTENANCE	
YEAR	COST
19 (2040)	\$47,647

## Stn.51 8.2.3 Overhead Bay Door Operator - Contingency

**Ext Envelope** 

Maintenance Cycle: 5 years

Quantity: 4 Each

Next Maintenance: Year 2 (2023)

Unit Cost: \$2,954.13 / EA

**Estimate:** 4 EA X 100% X \$2,954.13/EA = \$11,817 + tax = \$13,010

2021 Notes: No new updates were reported.

Previous Notes: The sectional overhead Apparatus Bay doors facing the parking area each have gearhead trolley-style operators. A regular maintenance budget has been set to address issues that may arise, or replace the units as needed. We understand that there have been some issues with the operators, which is not uncommon for these devices.

	FUTURE MAINTENANCE	
ı	YEAR	COST
	2 (2023)	\$13,936
	7 (2028)	\$16,156
	12 (2033)	\$19,095
	17 (2038)	\$23,232
	22 (2043)	\$28,265
	Repeat Eve	erv 5 Years

## Stn.51 8.2.4 Coiling Door - Maintenance

**Ext Envelope** 

Maintenance Cycle: 30 years

Quantity: 2 Each

Next Maintenance: Year 19 (2040)

Unit Cost: \$4,582.20 / EA

**Estimate:** 2 EA X 100% X \$4,582.20/EA = \$9,164 + tax = \$10,090

2021 Notes: No new updates were reported.

Previous Notes: Overhead coiling doors are located at the Tower and on the north end of the Apparatus Bay. We did not see the doors in use, but no problems were reported. We budget for total replacement at the end of their anticipated life span.

FUTURE MAINTENANCE	
YEAR	COST
19 (2040)	\$19,488



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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#### Stn.51 8.2.5 Doors & Hardware - Maintenance

Ext Envelope

Maintenance Cycle: 5 years

Quantity: 5 Each

Next Maintenance: Year 1 (2022)

Unit Cost: \$663.03 / EA

**Estimate:** 5 EA X 100% X \$663.03/EA = \$3,315 + tax = \$3,650

2021 Notes: No new updates were reported.

Previous Notes: We do not anticipate that all of the doors will need to be replaced at once. Instead, the budget provides a contingency to address up to five doors and hardware sets at Station 51 and the Tower every five years. The doors leading to the exterior are steel, while the interior doors are wood. Aluminum storefront doors are addressed in a separate component.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$3,796
6 (2027)	\$4,401
11 (2032)	\$5,151
16 (2037)	\$6,267
21 (2042)	\$7,625
Repeat Every 5 Years	

## Stn.51 8.3.1 Storefront System - Maintenance

Ext Envelope

Maintenance Cycle: 15 years

Quantity: 420 Square Feet

Next Maintenance: Year 4 (2025)

Unit Cost: \$84.56 / SF

**Estimate:** 420 SF X 20% X \$84.56/SF = \$7,103 + tax = \$7,820

2021 Notes: No new updates were reported.

Previous Notes: An aluminum storefront system is found at the entries to the Station. Depending on the frequency of use, major maintenance will periodically be required. This component budgets up to 20% of the replacement cost for periodic repairs to the doors, gaskets and glazing within the system.

FUTURE MAINTENANCE	
COST	
\$8,887	
\$15,103	

#### Stn.51 8.3.2 Storefront System - Replace

Ext Envelope

Maintenance Cycle: 60 years

Quantity: 420 Square Feet

Next Maintenance: Year 50 (2071)

Unit Cost: \$84.53 / SF

**Estimate:** 420 SF X 100% X \$84.53/SF = \$35,503 + tax = \$39,090

2021 Notes: No new updates were reported.

Previous Notes: Depending on the frequency of use, the cost for replacing the aluminum storefront system at the entries of the Station will outweigh the cost for repairs and/or the finish on the system may deteriorate to the point of needing replacement. This component budgets for total replacement of the storefront system.

FUTURE MAINTENANCE	
YEAR	COST

## Stn.51 8.5.1 Aluminum Windows - Replace

**Ext Envelope** 

Maintenance Cycle: 40 years

Quantity: 2,620 Square Feet

Next Maintenance: Year 29 (2050)

Unit Cost: \$61.11 / SF

Estimate: 2,620 SF X 100% X \$61.11/SF = \$160,108 + tax = \$176,280

2021 Notes: No new updates were reported.

Previous Notes: The windows on the exterior of the building are aluminum frame, which should require little maintenance. Windows are typically replaced because they are not operating properly, to update their appearance and/or to capture better energy efficiency. We expect that failed insulated glazing units will be replaced as needed with funds from the operating budget.

FUTURE MAINTENANCE	
YEAR	COST
29 (2050)	\$503,970



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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#### Stn.51 9.8.1 Cedar Wood Siding - Maintenance

**Ext Envelope** 

Maintenance Cycle: 6 years

Quantity: 1,530 Square Feet

Next Maintenance: Year 1 (2022)

Unit Cost: \$13.24 / SF

**Estimate:** 1,530 SF X 100% X \$13.24/SF = \$20,257 + tax = \$22,300

2021 Notes: No new updates were reported.

Previous Notes: It was reported that the exterior cedar wood siding was refinished in 2017 for approximately \$5,000. We recommend a penetrating stain for maximum results. The finish was weathering well at the time of our site visit. We budget for future maintenance cycles.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$23,192
7 (2028)	\$27,692
13 (2034)	\$34,039
19 (2040)	\$43,070
25 (2046)	\$54,497

## Stn.51 9.8.2 Concrete Siding - Maintenance

Ext Envelope

Maintenance Cycle: 12 years

Next Maintenance: Year 1 (2022)

**Quantity: 920 Square Feet** 

**Unit Cost:** \$5.09 / SF

**Estimate:** 920 SF X 100% X \$5.09/SF = \$4,683 + tax = \$5,160 2021 Notes: No new updates were reported.

Previous Notes: Low concrete walls are located around the base of the building, as are cast in place concrete planting beds. The durable surface should require minimal maintenance. Funds are budgeted for periodic professional cleaning. We do not recommend painting the surfaces due to the future maintenance requirements.

FUTURE MAINTENANCE	
COST	
\$5,366	
\$7,876	
\$12,610	

#### Stn.51 9.8.3 Exterior Steel - Maintenance

Ext Envelope

Maintenance Cycle: 6 years

Quantity: 1 Lump Sum

Next Maintenance: Year 4 (2025)

Unit Cost: \$8,160.00 / LS

Estimate: \$8,160

2021 Notes: No new updates were reported.

Previous Notes: This component budgets funds to paint the steel components found on the exterior of the facility, including the stairs on the Tower, handrails along the walkways, exterior doors, canopies and steel members on the Station building. Maintaining a regular paint cycle will help protect the steel from moisture, which could lead to corrosion, shortening the useful life of these components. The paint overall was weathering as expected with no areas of corrosion noted.

FUTURE MAINTENANCE	
YEAR	COST
4 (2025)	\$9,273
10 (2031)	\$11,073
16 (2037)	\$14,011
22 (2043)	\$17,728
28 (2049)	\$22,432
, ,	

## Stn.51 9.8.4 Fiber Cement Board Siding - Caulk & Paint

**Ext Envelope** 

Maintenance Cycle: 8 years

Quantity: 6,420 Square Feet

Next Maintenance: Year 1 (2022)

Unit Cost: \$3.06 / SF

**Estimate:** 6,420 SF X 100% X \$3.06/SF = \$19,645 + tax = \$21,630

2021 Notes: This work was not completed as planned in 2020 and is now slated for 2022.

Previous Notes: The paint on the fiber cement board around the HVAC well is coming to the end of its useful life. Verify that all exposed (cut) ends of the boards have adequate paint coverage to achieve a full useful life of the fiber cement board. The estimated cost includes funds for caulking with each paint cycle.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$22,495
9 (2030)	\$28,496
17 (2038)	\$38,624
25 (2046)	\$52,860



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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### Stn.51 10.4.1 Exterior Signage - Refurbish

Specialties
Next Maintenance: Year 2 (2023)

Maintenance Cycle: 10 years

**Unit Cost:** \$2,550.00 / LS

**Quantity:** 1 Lump Sum **Estimate:** \$2,550

2021 Notes: The Station did not feel the exterior signage required refurbishment and requests the next maintenance cycle be moved to 2023.

Previous Notes: Exterior signage is located on the low concrete walls along NE 181st Street and 73rd Ave NE. A large "51" is adjacent to the Apparatus Bay doors along 73rd Ave NE with back lighting. The signage is constructed from durable materials and will not likely need replacement within the next 30 years. This budget provides funds from periodic repairs, including to the lighting elements, to keep the high visibility signage in optimal condition.

FUTURE MAINTENANCE	
YEAR	COST
2 (2023)	\$2,732
12 (2033)	\$3,743
22 (2043)	\$5,540

## Stn.51 10.5.1 Exterior Mail Pedestal Unit - Replace

**Specialties** 

Maintenance Cycle: 25 years

Quantity: 1 Each

Next Maintenance: Year 14 (2035) Unit Cost: \$2,034.51 / EA

**Estimate:** 1 EA X 100% X \$2,034.51/EA = \$2,035 + tax = \$2,240

2021 Notes: No new updates were reported.

Previous Notes: An exterior mail pedestal unit is located along NE 181st Street. No issues were reported. This budget provides funds for replacing the unit at the approximate end of useful life.

FUTURE MAINTENANCE	
YEAR	COST
14 (2035)	\$3,556

#### Stn.51 11.1.1 Propane Forklift - Replace

Equipment

Maintenance Cycle: 20 years

Quantity: 1 Each

Next Maintenance: Year 8 (2029)

Unit Cost: \$20,372.39 / EA

**Estimate:** 1 EA X 100% X \$20,372.39/EA = \$20,372 + tax = \$22,430

2021 Notes: No new updates were reported.

Previous Notes: A used propane forklift was donated to the Station in 2017. The forklift is a useful piece of equipment, so we have budgeted for replacement with a used model in approximately 10 years.

FUTURE MAINTENANCE	
YEAR	COST
8 (2029)	\$28,690
28 (2049)	\$61,659

## Stn.51 11.4.1 Admin Kitchen Equipment - Contingency

**Equipment** 

Maintenance Cycle: 10 years

Quantity: 1 Lump Sum

Next Maintenance: Year 6 (2027)

Unit Cost: \$5,100.00 / LS

**Estimate:** \$5,100

2021 Notes: No new updates were reported.

Previous Notes: The Admin Kitchen is located on the first floor and receives moderate use. Equipment includes a 30" gas range, vent hood, microwave, dishwasher, and refrigerator. It is unlikely that all of the equipment will need to be replaced at once, so we budget a repair contingency to periodically replace equipment as needed.

FUTURE MAINTENANCE	
YEAR	COST
6 (2027)	\$6,149
16 (2037)	\$8,757
26 (2047)	\$12,962



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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## Stn.51 11.4.2 Duty Crew Kitchen Equipment - Contingency

Equipment

Maintenance Cycle: 5 years

Next Maintenance: Year 3 (2024)

**Quantity:** 1 Lump Sum **Estimate:** \$15,290

**Unit Cost:** \$15,290.00 / LS

2021 Notes: No new updates were reported.

Previous Notes: The Duty Crew Kitchen is located on the second floor and is heavily used. Equipment includes a 60" Wolf gas range with six burners, 66" vent hood with a 1500 CFM hood ventilator, Kitchenaid counter top microwave, Bosch undercounter dishwasher, and four Kitchenaid stainless steel refrigerators. It is unlikely that all of the equipment will need to be replaced at once, so we budget a repair contingency to periodically replace equipment as needed. Since the Duty Crew Kitchen is larger and used more frequently, the budget is larger and the maintenance cycle is more frequent than the Admin Kitchen's budget.

FUTURE MAINTENANCE	
YEAR	COST
3 (2024)	\$16,870
8 (2029)	\$19,557
13 (2034)	\$23,339
18 (2039)	\$28,395
23 (2044)	\$34,547
Repeat Every 5 Years	

## Stn.51 11.6.1 Laundry Equipment - Contingency

Equipment

Maintenance Cycle: 5 years

Quantity: 4 Each

Next Maintenance: Year 3 (2024) Unit Cost: \$865.12 / EA

**Estimate:** 4 EA X 100% X \$865.12/EA = \$3,460 + tax = \$3,810

2021 Notes: No new updates were reported.

Previous Notes: The Duty Crew Laundry room has a Whirlpool Front Load Washer & Dryer and a Maytag Front Load washer & dryer which reportedly are constantly used. We have provided a frequent replacement cycle based on the number of loads, rather than the number of years in service. All machines were operational at the time of our site visit.

FUTURE MAINTENANCE	
YEAR	COST
3 (2024)	\$4,204
8 (2029)	\$4,873
13 (2034)	\$5,816
18 (2039)	\$7,076
23 (2044)	\$8,608
Repeat Every 5 Years	

#### Stn.51 11.6.2 Unimac Gear Extractor - Replace

Equipment

Maintenance Cycle: 12 years

Quantity: 1 Each

Next Maintenance: Year 1 (2022)

Unit Cost: \$8,147.14 / EA

Estimate: 1 EA X 100% X \$8,147.14/EA = \$8,147 + tax = \$8,970

2021 Notes: No new updates were reported.

Previous Notes: The Unimac commercial washer is located near the Apparatus Bay to wash gear and reportedly receives constant use. We budget for periodic replacement or major repairs of the unit, which was functioning well at the time of our site visit.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$9,329
13 (2034)	\$13,692
25 (2046)	\$21,921

## Stn.51 11.6.3 Ramair Gear Dryer - Replace

**Equipment** 

Maintenance Cycle: 12 years

Quantity: 1 Each

Next Maintenance: Year 1 (2022)

Unit Cost: \$10,181.65 / EA

**Estimate:** 1 EA X 100% X \$10,181.65/EA = \$10,182 + tax = \$11,210

2021 Notes: No new updates were reported.

Previous Notes: A heavy duty gear dryer is located near the Apparatus Bay. We understand that it was in good working order. We budget for periodic replacement of the unit which receives consistent use.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$11,658
13 (2034)	\$17,111
25 (2046)	\$27,395

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Equipment

Maintenance Cycle: 15 years

Quantity: 1 Each

Next Maintenance: Year 4 (2025) Unit Cost: \$8,147.14 / EA



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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**Estimate:** 1 EA X 100% X \$8,147.14/EA = \$8,147 + tax = \$8,970

2021 Notes: No new updates were reported.

Previous Notes: An industrial air compressor system is utilized to maintain the fire equipment. We understand that it was functioning as expected. The budget provides funds for replacement at the end of its typical useful life.

FUTURE MAINTENANCE	
COST	
\$10,194	
\$17,325	

#### Stn.51 12.1.1 Apparatus Bay - Refurbish

Maintenance Cycle: 25 years

Quantity: 12,525 Square Feet

**Estimate:** 12,525 SF X 100% X \$5.09/SF = \$63,752 + tax = \$70,190

2021 Notes: No new updates were reported.

Previous Notes: This component budgets funds to refurbish the approximately 7,380 sf Apparatus Bay and adjoining Comp Room, Disaster Storage, Equip Decon, Hose/Equip Stor, SCBA Maint, and Shop. Funds will most likely be focused on replacing ceiling tiles, updating the FRP wall panels, and resealing concrete flooring. This component is discretionary and should be updated in terms of timing and budget to meet the needs of the Station.

FUTURE MAINTENANCE	
YEAR	COST
14 (2035)	\$111,424

Finishes/Furnishings

## Stn.51 12.1.2 Admin Common Areas - Repaint

Maintenance Cycle: 16 years

Quantity: 12,115 Square Feet

**Estimate:** 12,115 SF X 100% X \$1.32/SF = \$15,992 + tax = \$17,610

Finishes/Furnishings

Next Maintenance: Year 5 (2026) **Unit Cost:** \$1.32 / SF

Next Maintenance: Year 9 (2030)

Next Maintenance: Year 14 (2035) Unit Cost: \$5.09 / SF

2021 Notes: No new updates were reported.

Previous Notes: For the sake of the report, we refer to common areas on the first level as the EMS Exam & Storage, Hallways, Admin Kitchen, Storage, and Stairways since these areas will most likely be painted at the same time. The paint was in good overall condition.

FUTURE MAINTENANCE	
YEAR	COST
5 (2026)	\$20,613
21 (2042)	\$36,787

## Stn.51 12.1.3 Exercise Room - Refurbish

Maintenance Cycle: 20 years

**Quantity: 1 Lump Sum Estimate:** \$3,060

**Unit Cost:** \$3,060.00 / LS

2021 Notes: No new updates were reported.

Previous Notes: This budget provides funds to periodically refurbish the exercise room finishes, including painting, mirrors, television monitors and rubberized flooring. We understand that equipment is maintained and purchased with funds from the maintenance budget. The 1300 sf room was clean and in good condition at the time of our site visit.

FUTURE MAINTENANCE	
YEAR	COST
9 (2030)	\$4,031
29 (2050)	\$8,748

Finishes/Furnishings

#### Stn.51 12.1.4 Bunk Gear Storage - Refurbish

Maintenance Cycle: 10 years

**Quantity:** 1 Lump Sum

RESERVE CONSULTANTS LLC 2021 Notes: No new updates were reported.

Finishes/Furnishings

Next Maintenance: Year 3 (2024) Unit Cost: \$8,160.00 / LS

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**FUTURE MAINTENANCE** 



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Previous Notes: The Bunk Gear Storage room is just off the Apparatus Bay and receives frequent traffic, but is well maintained. This component budgets funds to update finishes, storage furnishings, and to update the configuration of the 645 sf Bunk Gear Storage and Dry Closet area as needed.

YEAR	COST
3 (2024)	\$9,003
13 (2034)	\$12,455
23 (2044)	\$18,437

## Stn.51 12.1.5 Admin Offices - Refurbish

Finishes/Furnishings

Maintenance Cycle: 16 years

Quantity: 1 Lump Sum

Next Maintenance: Year 5 (2026)

Unit Cost: \$25,480.00 / LS

**Estimate:** \$25,480

2021 Notes: No new updates were reported.

Previous Notes: For the purposes of this report, the 10,330 sf of administrative spaces on the first floor are referred to as the Admin Offices, including the Comp Systems, Conference Room, FP Conference, FP Workroom, 9 Offices, Reception, Records, Uniform Storage and the Workroom. This component budgets funds for repainting the trim and walls and for updating the furnishings.

FUTURE MAINTENANCE	
YEAR	COST
5 (2026)	\$29,825
21 (2042)	\$53,227

### Stn.51 12.1.6 Lobby - Refurbish

Finishes/Furnishings

Maintenance Cycle: 15 years

Next Maintenance: Year 6 (2027)

Quantity: 1 Lump Sum

Unit Cost: \$20,390.00 / LS

**Estimate:** \$20.390

2021 Notes: No new updates were reported.

Previous Notes: This component budgets funds for updating finishes and furnishings in the Lobby, including the adjacent hallways and Vending Room, a total of approximately 3,595 sf. Funds are for refinishing the interior wood surfaces, updating the reception millwork facing the Lobby, painting the walls, as well as updating the art and furniture.

FUTURE MAINTENANCE	
YEAR	COST
6 (2027)	\$24,583
21 (2042)	\$42,594

### Stn.51 12.1.7 Public Meeting Room - Refurbish

Finishes/Furnishings

Maintenance Cycle: 12 years

Quantity: 1 Lump Sum

Next Maintenance: Year 1 (2022)

Unit Cost: \$15,290.00 / LS

**Estimate:** \$15,290

2021 Notes: No new updates were reported.

Previous Notes: A large public meeting room includes room partitioning doors which allows the space to be divided into two. This component budgets funds for periodic updates to the kitchenettes, paint and furniture. Also included is maintenance to the partition doors, which we do not anticipate will need to be replaced in the next 30 years. The funds are not specifically allocated so that they may be applied to the greatest need. The room was in serviceable condition, though we understand that there have been some issues with furniture in the recent past. Updating the AV equipment is funded in a separate component, are the flooring updates.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$15,902
13 (2034)	\$23,339
25 (2046)	\$37,366

### Stn.51 12.1.8 Public & Admin Restrooms - Refurbish

Finishes/Furnishings

Maintenance Cycle:20 yearsNext Maintenance:Year 9 (2030)Quantity:7 EachUnit Cost:\$2,545.74 / EA

**Estimate:** 7 EA X 100% X \$2,545.74/EA = \$17,820 + tax = \$19,620

2021 Notes: No new updates were reported.

FUTURE MAINTENANCE	
YEAR	COST
9 (2030)	AGE 13 of 34 \$25,848
29 (2050)	\$56,092

RESERVE CONSULTANTS LLC estrooms are located on the first floor and receive moderate use. The restrooms were clean and well maintained. This budget provides funds for replacing fixtures, updating finishes and making major repairs. The flooring updates are budgeted in



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a separate component.

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Stn.51 12.2.1 Duty Crew Common Areas - Full Repaint

Finishes/Furnishings

Maintenance Cycle: 16 years

Next Maintenance: Year 7 (2028) Unit Cost: \$1.32 / SF

**Quantity:** 9,630 Square Feet

**Estimate:** 9,630 SF X 100% X \$1.32/SF = \$12,712 + tax = \$14,000

2021 Notes: No new updates were reported.

Previous Notes: The common areas on the second floor include the hallways, Storage, Workroom, Stair and Quiet Area. All areas were in good condition overall. This component budgets for full repainting of these areas.

FUTURE MAINTENANCE	
YEAR	COST
7 (2028)	\$17,385
23 (2044)	\$31,632

Stn.51 12.2.2 Duty Crew Common Areas - Touchup Paint

Maintenance Cycle: 16 years

Quantity: 9,630 Square Feet

**Estimate:** 9,630 SF X 100% X \$1.32/SF = \$12,712 + tax = \$14,000

Next Maintenance: Year 15 (2036) Unit Cost: \$1.32 / SF

2021 Notes: No new updates were reported.

Previous Notes: The common areas on the second floor include the hallways, Storage, Workroom, Stair and Quiet Area. All areas were in good condition overall. Due to the heavy use in the Duty Crew areas, this component provides funds for touch up painting in these areas.

FUTURE MAINTENANCE	
YEAR	COST
15 (2036)	\$23,113

Finishes/Furnishings

Stn.51 12.2.3 Duty Crew Sleep Room Interiors - Refurbish

Finishes/Furnishings

Maintenance Cycle: 10 years

Next Maintenance: Year 3 (2024)

Quantity: 9 Each

Unit Cost: \$2,546.17 / EA

**Estimate:** 9 EA X 100% X \$2,546.17/EA = \$22,916 + tax = \$25,230

2021 Notes: No new updates were reported.

Previous Notes: Nine sleep rooms are available for the Duty Crews' use. The rooms are simply furnished and were in good condition overall. This component budgets funds to repaint the walls and update the furnishings. The flooring replacement is budgeted in a separate component.

FUTURE MAINTENANCE	
YEAR	COST
3 (2024)	\$27,837
13 (2034)	\$38,511
23 (2044)	\$57,006

Stn.51 12.2.4 Duty Crew Kitchen Interiors - Refurbish

Finishes/Furnishings

Maintenance Cycle: 10 years

Next Maintenance: Year 9 (2030)

Quantity: 1 Lump Sum

**Unit Cost:** \$10,190.00 / LS

**Estimate:** \$10,190

2021 Notes: Refurbishing was completed in 2020 at a cost of \$10,000. More improvements totaling \$1500 are expected for 2022.

Previous Notes: This component provides funds to periodically update the walls, furniture, counters and cabinets in the Duty Crew kitchen, which we understand gets heavy use. The 980 sf area was clean and well maintained. Replacement of kitchen equipment is budgeted in a separate

FUTURE MAINTENANCE	
YEAR	COST
9 (2030)	\$13,425
19 (2040)	\$19,681
29 (2050) <sub>p</sub>	\$29,132 AGE 14 of 34

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FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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#### Stn.51 12.2.5 Duty Crew Laundry Interiors - Refurbish

Finishes/Furnishings

Maintenance Cycle: 10 years

**Next Maintenance:** Year 2 (2023)

Quantity: 1 Lump Sum

Unit Cost: \$2,040.00 / LS

**Estimate:** \$2,040

2021 Notes: Per the Station, the refurbishing planned for 2020 will be moved to 2023.

Previous Notes: A 345 sf laundry area is available on the second floor in the Duty Crew area. The budget is intended for replacing utility sinks, counters and cabinets, as well as painting wall surfaces. A separate component budgets funds for replacing the washing and drying equipment.

FUTURE MAINTENANCE	
YEAR	COST
2 (2023)	\$2,185
12 (2033)	\$2,994
22 (2043)	\$4,432

## Stn.51 12.2.6 Duty Crew Office/Training Areas - Refurbish

Finishes/Furnishings

Maintenance Cycle: 15 years

Next Maintenance: Year 4 (2025)

**Quantity:** 1 Lump Sum **Estimate:** \$6,120

**Unit Cost:** \$6,120.00 / LS

2021 Notes: No new updates were reported.

Previous Notes: The second floor has Duty Crew office and training area which will need periodic refurbishment of the wall paint and furniture. The areas are about 2,620 sf total.

FUTURE MAINTENANCE	
YEAR	COST
4 (2025)	\$6,955
19 (2040)	\$11,820

## Stn.51 12.2.7 Duty Crew Restrooms - Refurbish

Finishes/Furnishings

Maintenance Cycle: 10 years

Next Maintenance: Year 2 (2023)

Quantity: 6 Each

**Unit Cost:** \$2,546.17 / EA

**Estimate:** 6 EA X 100% X \$2,546.17/EA = \$15,277 + tax = \$16,820

2021 Notes: Per the Station, next maintenance will be moved from 2020 to 2023.

Previous Notes: The second floor has two single occupant restrooms and a four stall shower/toilet adjacent to a double sink Lavatory Area. Similar to the first floor, the restrooms were found to be clean and well maintained. This budget provides funds for replacing fixtures, updating finishes and making major repairs. The flooring updates are budgeted in a separate component.

FUTURE MAINTENANCE	
YEAR	COST
2 (2023)	\$18,018
12 (2033)	\$24,687
22 (2043)	\$36,542

## Stn.51 12.4.1 1st Floor Interior Carpet Flooring - Replace

Finishes/Furnishings

Maintenance Cycle: 24 years

Next Maintenance: Year 13 (2034)

**Quantity:** 704 Square Yards

**Unit Cost:** \$44.81 / SY

**Estimate:** 704 SY X 100% X \$44.81/SY = \$31,551 + tax = \$34,740

2021 Notes: No new updates were reported.

Previous Notes: There are twenty four rooms with carpet on the first floor of Station 51. We budget for replacement of the carpeting on a less frequent cycle than the Duty Crew areas due to less wear and tear these areas experience. Timing of the next replacement should be adjusted to meet the needs of the Station and tolerance to wear.

FUTURE MAINTENANCE	
YEAR	COST
13 (2034)	\$53,027

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FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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Maintenance Cycle: 16 years

Quantity: 507 Square Yards

**Estimate:** 507 SY X 100% X \$44.81/SY = \$22,724 + tax = \$25,020

2021 Notes: No new updates were reported.

Previous Notes: A total of nineteen rooms have carpet on the 2nd floor, including hallways, workrooms, the classroom, sleep rooms and support areas. We budget to replace all of the carpet at once on the second floor for continuity of appearance.

FUTURE MAINTENANCE	
YEAR	COST
5 (2026)	\$29,287
21 (2042)	\$52,266

Next Maintenance: Year 5 (2026)

Next Maintenance: Year 9 (2030)

Next Maintenance: Year 4 (2025)

Next Maintenance: Year 9 (2030) Unit Cost: \$15.28 / SF

**Unit Cost:** \$3.26 / SF

Unit Cost: \$3.26 / SF

Unit Cost: \$44.81 / SY

#### Stn.51 12.4.3 1st Floor Resilient Flooring - Replace

Maintenance Cycle: 20 years

**Quantity:** 655 Square Feet

**Estimate:** 655 SF X 100% X \$3.26/SF = \$2,135 + tax = \$2,350

2021 Notes: No new updates were reported.

Previous Notes: The restrooms closest to the Public Meeting room have resilient flooring. The flooring was wearing well; this component budgets funds for replacing the flooring at the end of its typical useful life.

FUTURE MAINTENANCE	
YEAR	COST
9 (2030)	\$3,096
29 (2050)	\$6,718

Finishes/Furnishings

#### Stn.51 12.4.4 2nd Floor Resilient Flooring - Replace

Maintenance Cycle: 15 years

Quantity: 770 Square Feet

**Stantity.** 770 Square reet

**Estimate:** 770 SF X 100% X \$3.26/SF = \$2,510 + tax = \$2,760

2021 Notes: No new updates were reported.

Previous Notes: The restrooms, shower area and laundry room on the second floor have resilient flooring. We have budgeted for replacement on a shorter maintenance cycle than the restrooms on the first floor due to the higher use in the Duty Crew areas. The flooring in these areas appeared to be regularly maintained, with no issues reported.

FUTURE MAINTENANCE	
YEAR	COST
4 (2025)	\$3,137
19 (2040)	\$5,331

#### Stn.51 12.4.5 1st Floor Sheet Flooring - Replace

Maintenance Cycle: 20 years

**Quantity:** 1,950 Square Feet

**Estimate:** 1,950 SF X 100% X \$15.28/SF = \$29,796 + tax = \$32,810

2021 Notes: No new updates were reported.

Previous Notes: Welded seam rubber sheet flooring was specified in eleven rooms on the first level, including the EMS Exam room, workroom and support areas. Rubber treads are located on the stairwell treads. This component budgets funds for periodic replacement of these surfaces, which were in good condition.

FUTURE MAINTENANCE	
YEAR	COST
9 (2030)	\$43,225
29 (2050)	\$93,801

Finishes/Furnishings

Finishes/Furnishings

#### Stn.51 12.4.6 2nd Floor Sheet Flooring - Replace

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Next Maintenance: Year 4 (2025)
Unit Cost: \$15.28 / SFPAGE 16 of 34

**Estimate:** 2,510 SF X 100% X \$15.28/SF = \$38,353 + tax = \$42,230



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2021 Notes: No new updates were reported.

Previous Notes: Welded seam rubber sheet flooring was specified in eight rooms on the second level, including the Kitchen, hallways, and support areas. Rubber treads are located on the stairwell treads. This component budgets funds for periodic replacement of these surfaces more frequently than areas with the same type of flooring on the first floor because they are more heavily trafficked. The areas observed appeared to be regularly maintained.

FUTURE MAINTENANCE	
YEAR	COST
4 (2025)	\$47,992
19 (2040)	\$81,562

#### Stn.51 12.4.7 1st Floor Stained Concrete - Refurbish

Maintenance Cycle: 12 years

**Quantity:** 510 Square Feet

**Estimate:** 510 SF X 100% X \$27.50/SF = \$14,025 + tax = \$15,440

2021 Notes: No new updates were reported.

Previous Notes: Stained concrete surfaces are located in the Lobby, some hallways and in front of the kitchenettes in the Public Meeting Room. This component provides funds to refurbish the flooring surface to keep these high use areas in optimal condition. They were wearing well, with no issues reported.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$16,058
13 (2034)	\$23,568
25 (2046)	\$37,733

Finishes/Furnishings

#### Stn.51 12.6.1 Elevator Cab Interior - Remodel

Maintenance Cycle: 40 years

Quantity: 1 Lump Sum **Estimate: \$6,120** 

Next Maintenance: Year 29 (2050) **Unit Cost:** \$6,120.00 / LS

Next Maintenance: Year 1 (2022) Unit Cost: \$27.50 / SF

2021 Notes: No new updates were reported.

Previous Notes: Remodeling the elevator cab is reportedly a low priority for the Station. We budget funds for updating the cab interiors in conjunction with major elevator maintenance. The finishes inside the cab are wearing well.

FUTURE MAINTENANCE	
YEAR	COST
29 (2050)	\$17,497

Finishes/Furnishings

#### Stn.51 14.1.1 Elevator - Major Upgrades

Maintenance Cycle: 40 years

Quantity: 1 Lump Sum Estimate: \$127,420

Next Maintenance: Year 29 (2050) Unit Cost: \$127,420.00 / LS

2021 Notes: No new updates were reported.

Previous Notes: The elevator is on a full service contract that keeps it operational at all times. The allowance is intended to cover the cost of major repairs and replacements not covered under a typical full service contract, such as control replacement, pump replacement and hydraulic cylinder replacement. During our visit the elevator's mechanical equipment was in proper working order with no problems being noted. We recommend that the Station discuss future maintenance needs with the elevator service provider to better understand the timing and cost of future major maintenance that is outside the regular maintenance contract.

FUTURE MAINTENANCE	
YEAR	COST
29 (2050)	\$364,283

**Elevator** 

Elevator

#### Stn.51 14.1.2 Elevators - 5 Year Load Test

Maintenance Cycle: 5 years

**Quantity:** 1 Lump Sum **Estimate:** \$5,610

Next Maintenance: Year 5 (2026) Unit Cost: \$5,610.00 / LS

2021 Natas. The work was completed in 2021 RESERVE CONSULTANTS LLC

**FUTURE MAINTENANCE** COST YEAR 5 (2026) \$6,567

Previous Notes: This component budgets for the Five-Year Safety Test for elevators mandated by the Washington State Department of Labor and Industries. The test evaluates the overspeed



COMPONENT SUMMARY

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rupture valve and the plunger gripper per code requirements. This test is not typically covered under maintenance contracts and has an average cost of about \$5,000 per elevator cab to complete.

10 (2031) \$7,613 15 (2036) \$9,262 20 (2041) \$11,268 25 (2046) \$13,710 Repeat Every 5 Years

## Stn.51 15.2.1 Plumbing System - Contingency

Life Safety

Maintenance Cycle: 5 years

Next Maintenance: Year 3 (2024)

Quantity: 1 Lump Sum

Unit Cost: \$5,100.00 / LS

**Estimate:** \$5,100

2021 Notes: No new updates were reported.

Previous Notes: The supply plumbing is copper; its useful life should exceed the scope of this report. The Station has experienced some issues with pin hole leaks, which is not uncommon with copper plumbing. We carry a contingency to deal with periodic plumbing supply and drain line issues as they arise.

FUTURE MAINTENANCE	
YEAR	COST
3 (2024)	\$5,627
8 (2029)	\$6,523
13 (2034)	\$7,785
18 (2039)	\$9,471
23 (2044)	\$11,523
Repeat Every 5 Years	

#### Stn.51 15.2.2 Plumbing Supply Lines - Replace

Life Safety

Maintenance Cycle: 60 years

Quantity: 1 Lump Sum

Next Maintenance: Year 49 (2070)

Unit Cost: \$61,160.00 / LS

**Estimate:** \$61,160

2021 Notes: No new updates were reported.

Previous Notes: It was reported that some pin hole leaks have been experienced by the Station since construction was completed in 2011. It is our understanding that the quality of contemporary copper supply lines is not as high as that of copper used in the past. In addition, the circulating hot water system could promote a shorter useful life of the supply system. Therefore, a budget to replace the supply lines with PEX, or its equivalent, is budgeted once the system has been in service for 60 years. The cost will vary greatly on what supply lines are used at the time of replacement, accessibility to the lines, etc. This component is intended to help financially prepare the Station for the future expense, with the intention that the pricing will be refined as replacement is in a 5 - 10 year frame.

FUTURE MAINTENANCE	
YEAR	COST

#### Stn.51 15.3.1 Irrigation System - Contingency

Life Safety

Maintenance Cycle: 10 years

Quantity: 12 Zones

Next Maintenance: Year 8 (2029)

Unit Cost: \$794.73 / ZN

**Estimate:** 12 ZN X 100% X \$794.73/ZN = \$9,537 + tax = \$10,500

2021 Notes: No new updates were reported.

Previous Notes: There are approximately twelve zones associated with the drip system. In 2019 one controller was replaced. This component allocates funds for major maintenance of the irrigation system, beyond what is handled by the landscaping maintenance crew and/or from funds from the operating budget, such as selective repairs to sections of plumbing, replacing controllers or timers. The estimated costs would not be sufficient to replace the entire system.

FUTURE MAINTENANCE	
YEAR	COST
8 (2029)	\$13,430
18 (2039)	\$19,500
28 (2049)	\$28,864

#### Stn.51 15.3.2 Storm Water System - Contingency

Maintenance Cycle: 3 years

Quantity: 1 Lump Sum

Next Maintenance: Year 1 (2022)

Unit Cost: \$5,100.00 / LS

**Estimate:** \$5,100

2021 Notes: No new updates were reported.

Previous Notes: It was reported that there are nine organic filters that need periodic replacement. This budget covers the cost to replace the filters and complete other maintenance to the RESERVE CONSULTANTS LLC tions to site drainage and upkeep of the detention as needed.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$5,304
4 (2025)	\$5,796 AGE 18 of 34 \$6,333
7 (2028) P	\$6,333
10 (2031)	\$6,921



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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13 (2034) \$7.785 Repeat Every 3 Years

Stn.51 15.4.1 Fire Detection System - Maintenance

**Life Safety** 

Maintenance Cycle: 5 years

Next Maintenance: Year 3 (2024)

**Quantity:** 1 Lump Sum

Unit Cost: \$2,550.00 / LS

**Estimate:** \$2,550

2021 Notes: No new updates were reported.

Previous Notes: The fire detection system repair allowance is intended to financially prepare the Station to maintain the fire detection and related systems, including smoke and CO sensors, alarms, exit signage and emergency egress fixtures.

FUTURE MAINTENANCE		
Y	EAR	COST
3 (2	(024)	\$2,814
8 (2	2029)	\$3,262
13 (2	2034)	\$3,892
18 (2	2039)	\$4,736
23 (	2044)	\$5,762
_	. –	

Repeat Every 5 Years

Stn.51 15.4.2 Fire Sprinkler System - Maintenance

**Life Safety** 

Maintenance Cycle: 15 years Quantity: 1 Lump Sum

Next Maintenance: Year 4 (2025) Unit Cost: \$8,160.00 / LS

**Estimate:** \$8,160

2021 Notes: No new updates were reported.

Previous Notes: The building has a wet sprinkler system throughout the occupied building. The system will occasionally need piping and sprinkler head repairs. This component provides a maintenance contingency for such repairs, though no issues were reported at the time of our site

FUTURE MAINTENANCE	
YEAR	COST
4 (2025)	\$9,273
19 (2040)	\$15,760

#### Stn.51 15.5.1 Water Heater - Contingency

Life Safety

Maintenance Cycle: 20 years Quantity: 2 Each

Next Maintenance: Year 9 (2030)

Unit Cost: \$7,538.60 / EA

**Estimate:** 2 EA X 100% X \$7,538.60/EA = \$15,077 + tax = \$16,600

2021 Notes: No new updates were reported.

Previous Notes: The Station has two Phoenix 80 gallon direct vent ultra-high efficiency gas hot water heaters on a circulating water system to provide hot water on demand. We anticipate that necessary repairs to the circulating pumps will be infrequent and inexpensive enough to handle through the operating budget. It was reported that the circulating pumps were replaced in 2019. This component provides funds for periodic replacement of the hot water heaters and associated expansion tanks.

FUTURE MAINTENANCE		
COST		
\$21,870		
\$47,458		

#### Stn.51 15.6.1 Heat Recovery Unit - Replace

Life Safety

Maintenance Cycle: 25 years Next Maintenance: Year 14 (2035) Unit Cost: \$12,225.25 / EA Quantity: 1 Each

**Estimate:** 1 EA X 100% X \$12,225.25/EA = \$12,225 + tax = \$13,460

2021 Notes: No new updates were reported.

Previous Notes: A gas Aaon Bunker Gear heat recovery rooftop unit was specified for Station 51. Since the unit is located on the rooftop, replacement of the unit will require extra effort, with the possibility that a crane may be necessary to remove and replace the equipment. We budget for total replacement of the unit at the end of its typical useful life, when major repairs are no longer feasible.

FUTURE MAINTENANCE		
YEAR	COST	
14 (2035)	\$21,367	



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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Life Safety

#### Stn.51 15.6.2 Indirect Makeup AHU - Replace

Next Maintenance: Year 9 (2030)

Maintenance Cycle: 20 years Quantity: 1 Each

Unit Cost: \$9,164.40 / EA

**Estimate:** 1 EA X 100% X \$9,164.40/EA = \$9,164 + tax = \$10,090

2021 Notes: No new updates were reported.

Previous Notes: Aaon RN-016 indirect makeup air handling unit is located in the rooftop HVAC well. Since the unit is located on the rooftop, replacement of the unit will require extra effort, with the possibility that a crane may be necessary to remove and replace the equipment. We budget for total replacement of the unit at the end of its typical useful life, when major repairs are no longer

FUTURE MAINTENANCE		
YEAR	COST	
9 (2030)	\$13,293	
29 (2050)	\$28,846	

#### Stn.51 15.6.3 Furnace - Replace

**Life Safety** 

Maintenance Cycle: 20 years

Next Maintenance: Year 9 (2030)

Quantity: 1 Each

Unit Cost: \$2,034.51 / EA

**Estimate:** 1 EA X 100% X \$2,034.51/EA = \$2,035 + tax = \$2,240

2021 Notes: No new updates were reported.

Previous Notes: A Reznor SDH-100 furnace was specified for the Station. The system was operational at the time of our visit. We budget for major repairs or replacement of the system at the end of its anticipated useful life.

FUTURE MAINTENANCE	
YEAR	COST
9 (2030)	\$2,951
29 (2050)	\$6,404

#### Stn.51 15.6.4 VRF Heat Pump - Contingency

Life Safety

Maintenance Cycle: 6 years Next Maintenance: Year 4 (2025) Quantity: 40 Each Unit Cost: \$1,355.52 / EA

**Estimate:** 40 EA X 33% X \$1,355.52/EA = \$17,893 + tax = \$19,700

2021 Notes: No new updates were reported.

Previous Notes: A Mitsubishi VRF heat pump split system with 35 interior units and five exterior units was specified for the Station. It was reported that the system has not been functioning as expected, though a solution was not known at the time of the report. Three motherboards have been replaced; approximately \$3,500 has been spent in 2019 on miscellaneous repairs. This component budgets funds to replace up to 33% of the units each maintenance cycle since it is unlikely that all of the units will be replaced at once.

FUTURE MAINTENANCE	
YEAR	COST
4 (2025)	\$22,388
10 (2031)	\$26,732
16 (2037)	\$33,825
22 (2043)	\$42,799
28 (2049)	\$54,155

#### Stn.51 15.6.5 HVAC System - Contingency

Life Safety

Maintenance Cycle: 5 years Next Maintenance: Year 3 (2024) Unit Cost: \$5,100.00 / LS Quantity: 1 Lump Sum

**Estimate:** \$5,100

2021 Notes: No new updates were reported.

Previous Notes: This component provides a contingency for HVAC components not specifically listed, such as the Markel H3483 ceiling electric heater, five branch circuit controllers, eight electric duct heaters, and two Markle P-125 Radiant ceiling heat panels in the EMS storage room that were specified for the Station. It was reported that the HVAC system has not been performing as expected, and that two blowers were replaced in 2019 at a cost of \$1,200.

FUTURE MAINTENANCE		
YEAR	COST	
3 (2024)	\$5,627	
8 (2029)	\$6,523	
13 (2034)	\$7,785	
18 (2039)	\$9,471	
23 (2044)	\$11,523	
Repeat Every 5 Years		

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Next Maintenance: Year 9 (2030)

maintenance Cycle: 20 years Quantity: 6 Each

Unit Cost: \$2,341.81 / EA



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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Life Safety

Estimate: 6 EA X 100% X \$2,341.81/EA = \$14,051 + tax = \$15,470

2021 Notes: No new updates were reported.

Previous Notes: There are six Roberts Gordon Vantage II infrared heaters in the Apparatus Bay. No issues were reported; the budget provides funds for total replacement at the end of their typical useful life.

FUTURE MAINTENANCE		
YEAR	COST	
9 (2030)	\$20,381	
29 (2050)	\$44,227	

#### Stn.51 15.7.1 Exhaust Fans - Contingency

Next Maintenance: Year 3 (2024)

Maintenance Cycle: 5 years Quantity: 14 Each

Unit Cost: \$1,527.54 / EA

**Estimate:** 14 EA X 33% X \$1,527.54/EA = \$7,057 + tax = \$7,770

2021 Notes: No new updates were reported.

Previous Notes: There are thirteen exhaust fans located throughout Station 51 and a specialized exhaust removal system is in the Apparatus Bay. This budget establishes a repair contingency to ensure that the system has funding to keep it in optimal condition. The budget reflects anticipated costs to repair up to 33% of the system each maintenance cycle, including vent hoods on the exterior of the building. Typically, exhaust systems are maintained, rather than removed and replaced within a 30 year timeframe.

FUTURE MAINTENANCE	
YEAR	COST
3 (2024)	\$8,573
8 (2029)	\$9,938
13 (2034)	\$11,860
18 (2039)	\$14,430
23 (2044)	\$17,556
Repeat Every 5 Years	

#### Stn.51 16.3.1 Electrical System - Contingency

Life Safety

Maintenance Cycle: 10 years Next Maintenance: Year 8 (2029) **Quantity: 1 Lump Sum** 

**Estimate:** \$5,100

Unit Cost: \$5,100.00 / LS

2021 Notes: No new updates were reported.

Previous Notes: Once the electrical system has been in service 20 years we typically recommend an electrical preventative maintenance inspection and service on all panels every three years. This component provides a contingency to address future preventative maintenance inspections, and any other electrical system issue that may arise. The electrical meter bases are housed on the interior of the building, so we do not anticipate that they will need to be replaced in the next 30 vears.

FUTURE MAINTENANCE	
YEAR	COST
8 (2029)	\$6,523
18 (2039)	\$9,471
28 (2049)	\$14,020

#### Stn.51 16.5.1 Emergency Generator - Replace

Life Safety

Maintenance Cycle: 30 years Next Maintenance: Year 19 (2040) Quantity: 1 Each Unit Cost: \$18,328.79 / EA

**Estimate:** 1 EA X 100% X \$18,328.79/EA = \$18,329 + tax = \$20,180

2021 Notes: No new updates were reported.

Previous Notes: A Detroit diesel generator with a 1,000 gallon fuel tank provides the Station with power in the event of a power failure. The system is reportedly tested regularly and has engaged during power outages in the past. Since the generator provides power to a critical emergency service, we budget for replacement once the generator has been in service 30 years. The system may remain serviceable longer with regular maintenance and intermittent use.

FUTURE MAINTENANCE		
YEAR	COST	
19 (2040)	\$38,975	

#### Stn.51 16.5.2 Generator Fuel Tank - Replace

Life Safety

Maintenance Cycle: 30 years Next Maintenance: Year 19 (2040) Quantity: 1 Each Unit Cost: \$8,147.14 / EA

RESERVE CONSULTANTS LLC /EA = \$8,147 + tax = \$8,970

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COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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Previous Notes: The fuel tank for the generator is located in the elements and will periodically need to be replaced. Since it is a critical component of the emergency generator system, we have budgeted for its replacement when it has been in service 30 years.

YEAR	COST
19 (2040)	\$17,325

#### Stn.51 16.6.1 Exterior Light Fixtures - Replace

Life Safety

Maintenance Cycle: 10 years

Quantity: 1 Lump Sum

Estimate: \$10,190

Next Maintenance: Year 9 (2030)

Unit Cost: \$10,190.00 / LS

2021 Notes: The exterior light fixtures were replaced in 2020, inluding an upgrade, totaling \$32,000. Future replacements will likely not include this same upgrade and therefore, the cost will remain unchanged for future planning.

Previous Notes: There are a variety of exterior light fixtures associated with Station 51, including light bollards, stair lighting (which we understand is not currently functioning), building mounted fixtures and pole mounted fixtures in the parking area. It was reported that some of the lamps needed for some of the building mounted fixtures are no longer available; these fixtures will need to be replaced within the next year or so. Since all of the fixtures will not be replaced at once, we budget a lump sum each repair cycle to address the lighting fixtures that need to be updated or replaced. There are approximately 40 exterior light fixtures total.

FUTURE MAINTENANCE	
YEAR	COST
9 (2030)	\$13,425
19 (2040)	\$19,681
29 (2050)	\$29,132

#### Stn.51 16.8.1 Fire Control Panel - Replace

**Life Safety** 

Maintenance Cycle: 20 years

Quantity: 1 Each

Next Maintenance: Year 9 (2030)

Unit Cost: \$3,460.49 / EA

**Estimate:** 1 EA X 100% X \$3,460.49/EA = \$3,460 + tax = \$3,810

2021 Notes: No new updates were reported.

Previous Notes: The Station has one EST fire alarm control panel that is regularly inspected. We do not anticipate that any major maintenance will be required. The budget is for replacement of the panel at the end of its useful life.

FUTURE MAINTENANCE	
YEAR	COST
9 (2030)	\$5,019
29 (2050)	\$10,892

#### Stn.51 16.9.1 Audio/Visual Equipment - Upgrades

**Life Safety** 

Maintenance Cycle: 15 years

Quantity: 1 Lump Sum

Next Maintenance: Year 4 (2025)

Unit Cost: \$78,490.00 / LS

**Estimate:** \$78,490

2021 Notes: No new updates were reported.

Previous Notes: An estimate was provided for upgrades to the current system, which is not up to current standards. The bid includes costs for "Head End" equipment at \$42,641.37 and projection system replacement at \$18,329.07, with an additional \$16,000 needed to upgrade the upstairs training room. We understand that this work will likely be completed by the end of 2020.

FUTURE MAINTENANCE		
YEAR	COST	
4 (2025)	\$89,199	
19 (2040)	\$151,594	

#### Stn.51 17.1.1 Fireblast 451 - Maintenance

**Life Safety** 

Maintenance Cycle: 10 years

Quantity: 1 Lump Sum

Next Maintenance: Year 9 (2030)

Unit Cost: \$10,190.00 / LS

**Estimate:** \$10,190

2021 Notes: This was completed in 2020.

**YEAR**9 (2030)
PAGE 22 of 3 \$13,425 3 \$19 (2040)
\$19,681

**RESERVE CONSULTANTS** LLC | live fire burn prop that utilizes a propane tank for training drills. This component provides funds for major repairs and periodic upgrades as needed.



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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29 (2050)

\$29,132

Stn.51 18.1.1 Security / Surveillance System - Replace

Security

Maintenance Cycle: 10 years

Next Maintenance: Year 1 (2022)

**Quantity:** 1 Lump Sum

Unit Cost: \$16,310.00 / LS

**Estimate:** \$16,310

2021 Notes: At the request of the station, the next maintenance will be planned for 2022.

Previous Notes: This year or next there are plans to install one additional keypad and 7 cameras, as well as upgrades to the software and hardware. There are currently six keypads on site. We maintain a budget for future upgrades to the system as components wear out and/or become obsolete.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$16,962
11 (2032)	\$23,017
21 (2042)	\$34,071

#### Stn.57 2.6.1 Asphalt Paving - Repair

Site

Maintenance Cycle: 6 years

Next Maintenance: Year 1 (2022)

Quantity: 9,180 Square Feet

**Unit Cost:** \$8.15 / SF

**Estimate:** 9,180 SF X 5% X \$8.15/SF = \$3,741 + tax = \$4,120

2021 Notes: At the request of the station, the next maintenance will be planned for 2022.

Previous Notes: The asphalt pavement of the parking areas and driveway appeared to be in good condition overall, with no broken or sunken areas of asphalt noted. The asphalt walkway along Brookside Blvd NE seemed even with no visible root intrusion damage causing trip hazards. The budget provides funds to repair up to 5% of the total asphalt pavement. Considering the current condition of the asphalt pavement we do not include a budget for asphalt overlay.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$4,285
7 (2028)	\$5,116
13 (2034)	\$6,289
19 (2040)	\$7,957
25 (2046)	\$10,069

FUTURE MAINTENANCE

#### Stn.57 2.6.2 Asphalt Pavement- Seal Coat & Restripe

Site

Maintenance Cycle: 6 years

Next Maintenance: Year 1 (2022)

Quantity: 9,180 Square Feet

**Unit Cost:** \$0.51 / SF

**Estimate:** 9,180 SF X 100% X \$0.51/SF = \$4,682 + tax = \$5,150

2021 Notes: At the request of the station, the next maintenance will be planned for 2022.

Previous Notes: Last seal coated and restriped in 2012, the seal coat seemed to be performing well and the striping was clearly visible. We recommend that the Station regularly repair and seal coat the asphalt to help prevent water intrusion, which could degrade the subgrade. Over a period of time water intrusion can lead to "alligatoring" and delamination of the asphalt surface. The budget provides funds to seal coat and restripe the asphalt pavement every six years in conjunction with asphalt paving repairs.

FUTURE MAINTENANCE	
YEAR	COST
1 (2022)	\$5,356
7 (2028)	\$6,395
13 (2034)	\$7,861
19 (2040)	\$9,947
25 (2046)	\$12,586

#### Stn.57 2.7.4 Privacy Wood Fence - Replace

Site

Maintenance Cycle: 15 years

Next Maintenance: Year 8 (2029) Unit Cost: \$46.85 / LF

**Quantity:** 120 Linear Feet

**Estimate:** 120 LF X 100% X \$46.85/LF = \$5,622 + tax = \$6,190

2021 Notes: No new updates were reported.

Previous Notes: The privacy wood fence sits atop a concrete retaining wall located at the north side of the property. Another wood fence section creates a privacy screen around the back-patio area. Both fences appeared to be stable and in good condition. The budget maintains funds to replace the wood fence sections when they have reached the approximate end of their useful life. We do **RESERVE CONSULTANTS** LLC will need to be replaced within the next 30 years.

FUTURE MAINTENANCE	
YEAR	COST
8 (2029)	\$7,917
23 (2044)	\$13,986

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COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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#### Stn.57 2.7.5 Chain-link Fence - Repair

Site

Site

Site

Maintenance Cycle: 40 years

Quantity: 205 Linear Feet

**Estimate:** 205 LF X 100% X \$19.32/LF = \$3,961 + tax = \$4,360

**Estimate:** 203 Li × 100% × \$19.32/ Li = \$3,301 + ta/

2021 Notes: No new updates were reported.

Previous Notes: A vinyl coated six foot chain-link fence secures the Lyon Creek wetland area located at the northeast side of the property. The fence appeared to be stable and in good condition. The budget saves for replacing the chain-link fence when it has reached the approximate end of its useful life. Repairs should be paid with funds from the operating budget.

FUTURE MAINTENANCE	
YEAR	COST
18 (2039)	\$8,097

Next Maintenance: Year 18 (2039)

Next Maintenance: Year 6 (2027)

Next Maintenance: Year 13 (2034)

Next Maintenance: Year 2 (2023)

**Unit Cost:** \$8.56 / SF

Unit Cost: \$10,190.00 / LS

Unit Cost: \$5,100.00 / LS

Unit Cost: \$19.32 / LF

#### Stn.57 2.9.2 Landscaping - Maintenance

Maintenance Cycle: 8 years

**Quantity:** 1 Lump Sum

**Estimate:** \$5,100

2021 Notes: No new updates were reported.

Previous Notes: This component provides funds for periodic large landscaping projects, such as removing and replacing overgrown plants or large tree pruning. Regular landscaping maintenance is paid for with funds from the operating budget. The budget saves a lump sum amount to be drawn from as needed.

	FUTURE MAINTENANCE	
	YEAR	COST
s	6 (2027)	\$6,149
	14 (2035)	\$8,096
	22 (2043)	\$11,080
	30 (2051)	\$15,164

#### Stn.57 2.9.3 Wetland - Maintenance

Maintenance Cycle: 15 years

**Quantity:** 1 Lump Sum **Estimate:** \$10,190

2021 Notes: No new updates were reported.

Previous Notes: Wetlands are protected environments that require specialized maintenance. Qualified professionals are required to inspect and repair critical structural features such as embankments, outlets, pipes and risers. Other considerations include removing accumulated sediment, removal of trash and invasive plants. This component budgets funds for periodic inspections, permits and maintenance of the wetland area adjacent to Station 57.

FUTURE MAINTENANCE	
YEAR	COST
13 (2034)	\$15,554
28 (2049)	\$28,012

## Stn.57 3.3.3 Exterior Concrete Paving - Repair

Concrete

Maintenance Cycle: 6 years

**Quantity:** 1,730 Square Feet

**Estimate:** 1,730 SF X 20% X \$8.56/SF = \$2,962 + tax = \$3,260

2021 Notes: No new updates were reported.

Previous Notes: The concrete pavement of the walkways and patio seemed to be in good condition. In 2017 concrete sections were slab jacked to remove trip hazards. We budget to repair up to 20% of the concrete walkways and curbs each repair cycle. We recommend grinding or cutting the concrete to resolve trip hazards where possible. Cracks, spalling and/or damaged areas that cannot be corrected by grinding are intended to be covered by this component.

FUTURE MAINTENANCE	
YEAR	COST
2 (2023)	\$3,492
8 (2029)	\$4,170
14 (2035)	\$5,175
20 (2041)	\$6,548
26 (2047)	\$8,286

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COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

Maintenance Cycle: 20 years

Quantity: 1 Lump Sum **Estimate:** \$1,530

2021 Notes: No new updates were reported.

Previous Notes: The dumpster enclosure has three six-foot brick walls with a front-closing wood gate. The budget allocates funds to replace the wood gate only. Brick repairs of the dumpster walls may be addressed as needed in conjunction with the brick siding maintenance.

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**FUTURE MAINTENANCE** 

Next Maintenance: Year 18 (2039)

Next Maintenance: Year 8 (2029)

**Unit Cost:** \$24.44 / SF

Unit Cost: \$1,530.00 / LS

YEAR COST 18 (2039) \$2,841

#### Stn.57 6.4.5 Brick Siding - Maintenance

Maintenance Cycle: 20 years

Quantity: 4,860 Square Feet

**Estimate:** 4,860 SF X 10% X \$24.44/SF = \$11,878 + tax = \$13,080

2021 Notes: No new updates were reported.

Previous Notes: The brick siding of the station building appeared to be in good condition, with no visible staining, efflorescence or cracking noted. The reserve allowance is intended for periodic repairs and tuck-pointing of the brick façades with a budget to address up to 10% of the maintenance each repair cycle.

FUTURE MAINTENANCE	
YEAR	COST
8 (2029)	\$16,730
28 (2049)	\$35,956

**Ext Envelope** 

#### Stn.57 7.3.2 Gutters & Downspouts - Replace

Maintenance Cycle: 20 years

Quantity: 511 Linear Feet

**Estimate:** 511 LF X 100% X \$5.72/LF = \$2,923 + tax = \$3,220

**Ext Envelope** 

Next Maintenance: Year 11 (2032) Unit Cost: \$5.72 / LF

Next Maintenance: Year 11 (2032) **Unit Cost:** \$794.34 / SQ

2021 Notes: No new updates were reported.

Previous Notes: The component saves for replacing the gutters and downspouts when they have reached the approximate end of their useful life. The facility representative indicated the gutters are covered by screens.

FUTURE MAINTENANCE	
YEAR	COST
11 (2032)	\$4,544

#### Stn.57 7.4.7 Metal Roof - Replace

Maintenance Cycle: 40 years

**Quantity:** 70 Roofing Squares

**Estimate:** 70 SQ X 100% X \$794.34/SQ = \$55,604 + tax = \$61,220

2021 Notes: No new updates were reported.

Previous Notes: The metal roof appeared to be clean and in good condition overall. The roof is original to the building with an install date of 1992. We budget for a complete roof replacement. As the roof nears the end of its useful life the year for replacement may be adjusted according to how well the roof is performing

FUTURE MAINTENANCE	
YEAR	COST
11 (2032)	\$86,396

Ext Envelope

**Ext Envelope** 

#### Stn.57 7.4.8 Roof Inspection & Minor Repair

Next Maintenance: Year 5 (2026)

**Unit Cost:** \$794.08 / \$QGE 25 of 34

Estimate: 70 SQ X 5% X \$794.08/SQ = \$2,779 + tax = \$3,060



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

2021 Notes: This work was completed as planned in 2021.

Previous Notes: We include a budget for regular roof inspections and repairs as needed with a budget equal to 5% of the total replacement. Due to the considerable damage potential a leaking roof can cause, we recommend regular cleanings and inspections to maintain the integrity of the weatherproof membrane, flashing and joints.

FUTURE MAINTENANCE	
YEAR	COST
5 (2026)	\$3,582
10 (2031)	\$4,152
15 (2036)	\$5,052
20 (2041)	\$6,146
25 (2046)	\$7.478

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#### Stn.57 8.2.8 Common Doors & Hardware - Maintenance

Ext Envelope

Maintenance Cycle: 10 years

Next Maintenance: Year 10 (2031)

Quantity: 31 Each

Unit Cost: \$660.20 / EA

**Estimate:** 31 EA X 15% X \$660.20/EA = \$3,070 + tax = \$3,380

2021 Notes: The Station feels the common doors and hardware are in good working order and therefore maintenance will be moved from 2024 to 2031.

Previous Notes: Since is it unlikely that the station will need to replace all of the common doors and hardware at once, we budget a maintenance contingency to replace about four doors and hardware sets every maintenance cycle. We anticipate that the funds will be used as needed to keep the doors secure and operational at all times.

FUTURE MAINTENANCE	
YEAR	COST
10 (2031)	\$4,587
20 (2041)	\$6,789
30 (2051)	\$10,050

#### Stn.57 8.2.6 Overhead Bay Door - Replace

Ext Envelope

Maintenance Cycle: 20 years

Quantity: 5 Each

Next Maintenance: Year 8 (2029)

Unit Cost: \$1,055.40 / EA

**Estimate:** 5 EA X 100% X \$1,055.40/EA = \$5,277 + tax = \$5,810

2021 Notes: No new updates were reported.

Previous Notes: The Apparatus Bay is secured by five 14-foot tall sectional overhead bay doors with pane windows. The budget provides funds to replace the doors when they have reached the approximate end of their useful life. Funds may be drawn from as needed to keep the doors and associated hardware, such as springs, functional at all times.

FUTURE MAINTENANCE	
YEAR	COST
8 (2029)	\$7,431
28 (2049)	\$15,971

# Stn.57 8.2.7 Bay Door Operator - Contingency

Ext Envelope

Maintenance Cycle: 20 years

Quantity: 5 Each

Next Maintenance: Year 18 (2039)

Unit Cost: \$10,185.29 / EA

**Estimate:** 5 EA X 100% X \$10,185.29/EA = \$50,926 + tax = \$56,070

2021 Notes: No new updates were reported.

Previous Notes: The Apparatus Bay sectional overhead doors are operated by gearhead trolley-style operators. The operators were reported to be functioning properly. The budget provides funds to replace five bay door operators.

FUTURE MAINTENANCE	
YEAR	COST
18 (2039)	\$104,128

#### Stn.57 8.3.3 Storefront System - Maintenance

**Ext Envelope** 

Maintenance Cycle: 10 years

Quantity: 5 Each

Next Maintenance: Year 8 (2029)

Unit Cost: \$3,564.03 / EA

Estimate: 5 EA X 100% X \$3,564.03/EA = \$17,820 + tax = \$19,620

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YEAR 8 (2029) \$25,095

Previous Notes: The aluminum framed glass entry door and windows seemed to be sturdy and in good condition. No issues with functionality were reported. The budget provides funds to repair or



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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18 (2039) 28 (2049) \$36,436 \$53,935

replace sections of the system and replace door hardware as needed.

Stn.57 8.5.2 Aluminum Framed Windows - Replace

**Ext Envelope** 

Next Maintenance: Year 16 (2037) Maintenance Cycle: 45 years Unit Cost: \$30,580.00 / LS **Quantity:** 1 Lump Sum

Estimate: \$30,580

2021 Notes: No new updates were reported.

Previous Notes: The component provides funds for window glazing and frame replacement once the fifteen windows on the building have been in service approximately 45 years. The Station has about five windows that are over eight feet wide. We have allocated additional funds for the replacement of the oversized windows. Windows are typically replaced because they are not operating properly, to update their appearance and/or to capture better energy efficiency. We expect that failed insulated glazing units will be replaced as needed with funds from the operating budget.

FUTURE MAINTENANCE	
YEAR	COST
16 (2037)	\$52,506

#### Stn.57 9.8.5 Front Entry Steel Framed Structure - Paint

**Ext Envelope** 

Maintenance Cycle: 10 years Next Maintenance: Year 2 (2023) **Quantity:** 128 Linear Feet Unit Cost: \$16.25 / LF

**Estimate:** 128 LF X 100% X \$16.25/LF = \$2,080 + tax = \$2,290

2021 Notes: No new updates were reported.

Previous Notes: The paint of the front entry steel framed structure seemed to be in good condition. The budget allows for painting the exterior metal periodically. We recommend maintaining a regular paint cycle to protect the exterior metal from moisture damage, which should help the structure achieve its expected useful life. The glazing panes at the top of the structure should be maintained with funds from the operating budget.

FUTURE MAINTENANCE	
YEAR	COST
2 (2023)	\$2,453
12 (2033)	\$3,361
22 (2043)	\$4,975

#### Stn.57 10.4.2 Exterior Signage - Refurbish

**Specialties** 

Next Maintenance: Year 10 (2031) Maintenance Cycle: 15 years **Quantity: 1 Lump Sum** 

**Estimate: \$2,550** 

Unit Cost: \$2,550.00 / LS

2021 Notes: No new updates were reported.

Previous Notes: The large metal station number signage was installed in 2016. The budget provides funds to clean and repaint the numbers and lettering periodically.

FUTURE MAINTENANCE	
COST	
\$3,460	
\$6,232	

#### Stn.57 11.4.3 Kitchen Equipment - Contingency

**Equipment** 

Next Maintenance: Year 6 (2027) Maintenance Cycle: 5 years Unit Cost: \$5,093.55 / EA Quantity: 5 Each

**Estimate:** 5 EA X 50% X \$5,093.55/EA = \$12,734 + tax = \$14,020

2021 Notes: No new updates were reported.

Previous Notes: The Station kitchen equipment includes a Viking four burner gas range, an undercounter dishwasher, and three refrigerators. The budget allows for the purchase of up to two RESERVE CONSULTANTS LLC re reported to be functioning properly at the time of

FUTURE MAINTENANCE		
YEAR	COST	
6 (2027)	\$16,903	
11 (2032) 16 (2037)	\$19,786 AGE 27 of 34 \$24,072	
16 (2037)	\$24,072	
21 (2042)	\$29,288	



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

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26 (2047)

\$35,633

**Equipment** 

Stn.57 11.6.4 Laundry Equipment - Contingency

Next Maintenance: Year 3 (2024)

Quantity: 2 Each

Maintenance Cycle: 5 years

Unit Cost: \$1,525.89 / EA

**Estimate:** 2 EA X 100% X \$1,525.89/EA = \$3,052 + tax = \$3,360

2021 Notes: No new updates were reported.

Previous Notes: The Laundry Room provides a super capacity top load washer and a super capacity front load dryer. Funds are allocated to replace the washer and dryer set with a similar quality appliance each maintenance cycle.

FUTURE MAINTENANCE	
YEAR	COST
3 (2024)	\$3,707
8 (2029)	\$4,298
13 (2034)	\$5,129
18 (2039)	\$6,240
23 (2044)	\$7,592

Stn.57 11.6.5 Station Extractor - Bunker Gear Washer

Equipment

Maintenance Cycle: 12 years

Quantity: 1 Each

Next Maintenance: Year 5 (2026) Unit Cost: \$8,147.14 / EA

**Estimate:** 1 EA X 100% X \$8,147.14/EA = \$8,147 + tax = \$8,970

2021 Notes: No new updates were reported.

Previous Notes: A Unimac washer extractor that is responsible for cleaning the firemen's gear is located in the Shop Room next to the Apparatus Bay. After the remodel project in 2020 the shop area will be converted to a Locker Room. The budget provides funds to replace the washer extractor with a similar high-performance industrial washer extractor.

FUTURE MAINTENANCE	
YEAR	COST
5 (2026)	\$10,500
17 (2038)	\$16,017
29 (2050)	\$25,645

#### Stn.57 11.8.2 Air Compressor - Replace

Equipment

Maintenance Cycle: 12 years

Next Maintenance: Year 11 (2032) Unit Cost: \$10.19 / SF

**Quantity:** 3,640 Square Feet

Estimate: 3,640 SF X 100% X \$10.19/SF = \$37,092 + tax = \$40,840

2021 Notes: No new updates were reported.

Previous Notes: The component maintains funds to replace the fire station utility air compressor. The equipment was reported as functional at the time of our site visit, with no issues noted.

FUTURE MAINTENANCE	
YEAR	COST
11 (2032)	\$57,635
23 (2044)	\$92,276

#### Stn.57 12.3.1 Interior Concrete Floor - Refurbish

Next Maintenance: Year 24 (2045)

Maintenance Cycle: 25 years

Next Maintenance: Year 24 (2045)

**Quantity:** 5,748 Square Feet

**Unit Cost:** \$5.09 / SF

**Estimate:** 5,748 SF X 25% X \$5.09/SF = \$7,314 + tax = \$8,050

2021 Notes: No new updates were reported.

Previous Notes: The Station remodel project planned for 2020 includes removing the interior flooring and replacing it with polished concrete flooring throughout the Station. This component provides funds to refurbish the concrete flooring regularly to keep the surface in optimal condition.

FUTURE MAINTENANCE	
YEAR	COST
24 (2045)	\$18,916

Finishes/Furnishings



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

16-Nov-21

#### Stn.57 12.3.2 Apparatus Bay - Refurbish

Finishes/Furnishings

Maintenance Cycle: 10 years

Next Maintenance: Year 10 (2031)

**Unit Cost:** \$2.14 / SF

Quantity: 5,844 Square Feet

**Estimate:** 5,844 SF X 100% X \$2.14/SF = \$12,506 + tax = \$13,770

2021 Notes: The Station has requested the next maintenance to be moved from 2024 to 2031.

Previous Notes: The bid drawings indicate the Apparatus Bay fiberglass reinforced plastic (FRP) wall panels and ceiling tiles will be replaced. This component maintains funds to refurbish the apparatus bay FRP panels, and ceiling tile 25 year after the new materials have been installed.

FUTURE MAINTENANCE	
YEAR	COST
10 (2031)	\$18,685
20 (2041)	\$27,659
30 (2051)	\$40,942

#### Stn.57 12.3.3 Hallway & Stairwell Walls & Ceiling - Paint

Finishes/Furnishings

Maintenance Cycle: 25 years

Next Maintenance: Year 10 (2031)

**Quantity:** 1 Lump Sum

**Unit Cost:** \$7,140.00 / LS

**Estimate:** \$7,140

2021 Notes: The Station has requested the next maintenance to be moved from 2024 to 2031.

Previous Notes: The hallways and stairwell leading to the mezzanine level seem to be in good condition. These areas are not being updated during the remodel project planned for 2020. The budget provides funds to paint the walls and ceiling of the hallways and stairwell.

FUTURE MAINTENANCE	
YEAR	COST
10 (2031)	\$9,689

#### Stn.57 12.3.4 Front Reception Desk & Office - Remodel

Finishes/Furnishings

Maintenance Cycle: 10 years

Next Maintenance: Year 11 (2032)

**Quantity: 1 Lump Sum** 

Unit Cost: \$25,480.00 / LS

Estimate: \$25,480

2021 Notes: The Station has requested the next maintenance to be moved from 2022 to 2032.

Previous Notes: Remodeling the front reception desk and offices is an aesthetic consideration and my be updated at the discretion of the management to fit the needs of the Station.

FUTURE MAINTENANCE	
YEAR	COST
11 (2032)	\$35,958
21 (2042)	\$53,227

#### Stn.57 12.3.5 Kitchen - Remodel

Finishes/Furnishings

Maintenance Cycle: 10 years

Next Maintenance: Year 10 (2031)

**Quantity:** 1 Lump Sum

**Unit Cost:** \$10,190.00 / LS

Estimate: \$10,190

2021 Notes: The Station has requested the next maintenance to be moved from 2024 to 2031.

Previous Notes: The Kitchen walls, furniture, counters and cabinets seemed to be in good condition. The kitchen area is not included in the 2020 remodel project. The budget provides fund to update the kitchen area within the next five years. This component is also a discretionary expense and may be adjusted as needed. Replacement of kitchen equipment is budgeted in a separate component.

FUTURE MAINTENANCE	
COST	
\$13,827	
\$20,468	
\$30,298	

RESERVE CONSULTANTS LLC

Finishes/Furnishings

maintenance Cycle: 15 years Quantity: 1 Lump Sum Next Maintenance: Year 10 (2031) Unit Cost: \$15,290.00 / LS



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

**Estimate:** \$15,290

2021 Notes: The Station has requested the next maintenance to be moved from 2024 to 2031.

Previous Notes: The budget provides funds to update the Day Room and Dining Area. The areas appeared to be in good condition overall. The budget amount and timing may be adjusted to better fit the needs of the Station.

FUTURE MAINTENANCE	
YEAR	COST
10 (2031)	\$20,748
25 (2046)	\$37,366

16-Nov-21

#### Stn.57 12.3.7 Duty Crew Sleep Rooms - Refurbish

Maintenance Cycle: 20 years

**Quantity:** 1 Lump Sum **Estimate:** \$5,100

2021 Notes: No new updates were reported.

Previous Notes: We include a budget a contingency for refurbishing the six sleep rooms in the Station. Funds may be drawn from as needed to paint wall surfaces and replace furnishings.

FUTURE MAINTENANCE	
YEAR	COST
8 (2029)	\$6,523
28 (2049)	\$14,020

Finishes/Furnishings

Next Maintenance: Year 8 (2029)

Next Maintenance: Year 14 (2035)

Unit Cost: \$30,580.00 / LS

Unit Cost: \$5,100.00 / LS

#### Stn.57 12.3.8 Exercise Room - Refurbish

Maintenance Cycle: 15 years

**Quantity:** 1 Lump Sum **Estimate:** \$30,580

2021 Notes: No new updates were reported.

Previous Notes: The exercise room seemed to be in good condition. The lump sum budget provides funds to replace the rubberized flooring, mirrors, and paint walls. Replacing exercise equipment is funded through the operating budget.

FUTURE MAINTENANCE	
YEAR	COST
14 (2035)	\$48,544
29 (2050)	\$87,426

Finishes/Furnishings

#### Stn.57 12.3.9 Locker & Restroom - Refurbish

Maintenance Cycle: 15 years

**Quantity:** 1 Lump Sum **Estimate:** \$2,040

2021 Notes: No new updates were reported.

Previous Notes: The Station plans to remodel the restrooms and create a Locker Room in 2020. This component maintains funds to refurbish the restrooms and Locker Room fifteen years after the rooms have been in service.

Finishes/Furnishings
Year 5 (2026)
\$2,040.00 / LS

COST	
\$2,388	
\$4,098	

ELITLIDE MAINTENANCE

#### Stn.57 12.3.10 Laundry & Utility Room - Refurbish

Maintenance Cycle: 10 years

**Quantity:** 1 Lump Sum

Next Maintenance: Year 8 (2029) Unit Cost: \$10,190.00 / LS

**Next Maintenance:** 

**Unit Cost:** 

**RESERVE CONSULTANTS** LLC 2021 Notes: No new updates were reported.

FUTURE MAINTENANCE

PAGE 30 of 34

Finishes/Furnishings



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

16-Nov-21

Previous Notes: The Laundry and Utility rooms appeared to be in good condition. The budget is intended for replacing utility sinks, counters and cabinets, as well as painting wall surfaces. A separate component budgets funds for replacing the washing and drying equipment.

YEAR	COST
8 (2029)	\$13,034
18 (2039)	\$18,924
28 (2049)	\$28,012

#### Stn.57 15.2.3 Plumbing System - Contingency

Life Safety

Maintenance Cycle: 10 years
Quantity: 1 Lump Sum

Next Maintenance: Year 4 (2025) Unit Cost: \$5,100.00 / LS

**Estimate:** \$5,100

2021 Notes: No new updates were reported.

Previous Notes: The plumbing repair allowance is intended to help financially prepare the Station for any unforeseen problems with the common supply and drain plumbing lines, typically the sections running from the utility connection to the buildings. The allowance may be drawn from as needed. We have identified most supply lines to be copper with additional PEX lines.

FUTURE MAINTENANCE	
YEAR	COST
4 (2025)	\$5,796
14 (2035)	\$8,096
24 (2045)	\$11,984

#### Stn.57 15.3.3 Irrigation System - Contingency

Life Safety

Maintenance Cycle: 5 years

Quantity: 1 Lump Sum

Next Maintenance: Year 2 (2023)
Unit Cost: \$2,550.00 / LS

**Estimate:** \$2.550

2021 Notes: the Station has requested the next maintenance to be moved from 2024 to 2023.

Previous Notes: The irrigation system was reported to be in working condition. The number of zones operating the system was unknown at the time of our site visit. The component provides a lump sum amount to repair or replace as needed sections of irrigation piping, controllers, sprinkler heads, and valves.

FUTURE MAINTENANCE	
YEAR	COST
2 (2023)	\$2,732
7 (2028)	\$3,167
12 (2033)	\$3,743
17 (2038)	\$4,553
22 (2043)	\$5,540

#### Stn.57 15.4.3 Fire Detection System - Maintenance

Life Safety

Maintenance Cycle: 15 years

Next Maintenance: Year 5 (2026)

**Quantity:** 1 Lump Sum **Estimate:** \$5,100

Unit Cost: \$5,100.00 / LS

2021 Notes: No new updates were reported.

Previous Notes: The fire detection system repair allowance is intended to financially prepare the Station to maintain the fire detection and related systems, including smoke and CO sensors, alarms, exit signage and emergency egress fixtures.

FUTURE MAINTENANCE	
YEAR	COST
5 (2026)	\$5,970
20 (2041)	\$10,244

#### Stn.57 15.4.4 Wet & Dry Fire Sprinkler System - Contingency

Life Safety

Maintenance Cycle: 10 years

Quantity: 1 Lump Sum

Next Maintenance: Year 8 (2029)

Unit Cost: \$5,610.00 / LS

**Estimate:** \$5,610

2021 Notes: No new updates were reported.

YEAR COST 4 (2029) S7,176 18 (2039) \$10,418

RESERVE CONSULTANTS LLC regularly with no issues noted. The budget provide	des
tunds to maintain components of the wet and dry fire suppression system including replacing tl	he
compressor, piping, sensor and valves.	



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

16-Nov-21

28 (2049)

\$15,422

Stn.57 15.5.2 Water Heater - Replace

**Life Safety** 

Maintenance Cycle: 15 years

Next Maintenance: Year 2 (2023)

Quantity: 3 Each

Unit Cost: \$2,443.23 / EA

**Estimate:** 3 EA X 100% X \$2,443.23/EA = \$7,330 + tax = \$8,070

2021 Notes: No new updates were reported.

Previous Notes: The 100 gallon water heater has an expected 10-year useful life. The budget allows for replacing the heater with a product of the same kind.

FUTURE MAINTENANCE	
YEAR	COST
2 (2023)	\$8,645
17 (2038)	\$14,410

Repeat Every Years

Stn.57 15.6.7 HVAC Units - Replace

**Life Safety** 

Maintenance Cycle: 15 years

Next Maintenance: Year 6 (2027) Unit Cost: \$10,181.65 / EA

**Quantity:** 1 Each **Estimate:** 1 EA X 100% X \$10,181.65/EA = \$10,182 + tax = \$11,210

2021 Notes: No new updates were reported.

Previous Notes: The three Lennox HVAC units located outside are original to the facility. The units were reported to be functional with no further issues noted. We allocate reserve funds for major repairs or replacement of three HVAC units.

FUTURE MAINTENANCE	
YEAR	COST
6 (2027)	\$13,515
21 (2042)	\$23,418

Stn.57 15.6.8 Furnace - Replace

Life Safety

Maintenance Cycle: 10 years

Next Maintenance: Year 4 (2025)

Quantity: 5 Each

**Unit Cost:** \$2,546.78 / EA

**Estimate:** 5 EA X 100% X \$2,546.78/EA = \$12,734 + tax = \$14,020

2021 Notes: No new updates were reported.

Previous Notes: The Carrier brand furnace located in the equipment room on the second floor was replaced about 5-7 years ago. The unit was reported to be functional at the time of the site visit. We budget for replacing the unit when it has reached the approximate end of its useful life.

FUTURE MAINTENANCE	
YEAR	COST
4 (2025)	\$15,933
14 (2035)	\$22,256
24 (2045)	\$32,945

Stn.57 15.6.9 Infrared Overhead Heaters - Replace

Life Safety

Maintenance Cycle: 10 years

Quantity: 1 Lump Sum

Next Maintenance: Year 8 (2029)

Estimate: \$5,100

**Unit Cost:** \$5,100.00 / LS

2021 Notes: No new updates were reported.

Previous Notes: The reserve contingency saves for replacing the five Reznor infrared overhead heaters located in the apparatus bay. No issues were noted.

FUTURE MAINTENANCE	
YEAR	COST
8 (2029)	\$6,523
18 (2039)	\$9,471
28 (2049) <sub>P</sub>	\$14,020 AGE 32 of 34



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

16-Nov-21

Repeat Every Years

#### Stn.57 15.7.2 Exhaust Fans - Contingency

Life Safety

Maintenance Cycle: 5 years

Quantity: 8 Each

Next Maintenance: Year 3 (2024)

Unit Cost: \$1,527.54 / EA

**Estimate:** 8 EA X 33% X \$1,527.54/EA = \$4,033 + tax = \$4,440

2021 Notes: No new updates were reported.

Previous Notes: There are exhaust fans for the kitchen and restrooms, as well as a specialized exhaust removal system is in the Apparatus Bay at Station 57. This budget establishes a repair contingency to ensure that the system has funding to keep it in optimal condition. The exact number of exhausts was not provided; we estimate that there are approximately eight for the facility. The budget reflects anticipated costs to repair up to 33% of the system each maintenance cycle, including vent hoods on the exterior of the building. Typically, exhaust systems are maintained, rather than removed and replaced within a 30 year timeframe.

FUTURE MAINTENANCE	
YEAR	COST
3 (2024)	\$4,899
8 (2029)	\$5,679
13 (2034)	\$6,777
18 (2039)	\$8,246
23 (2044)	\$10,032
Repeat Ev	ery Years

#### Stn.57 16.3.2 Electrical System - Contingency

Life Safety

Maintenance Cycle: 20 years

Quantity: 1 Each

Next Maintenance: Year 8 (2029)

Unit Cost: \$6,112.62 / EA

**Estimate:** 1 EA X 100% X \$6,112.62/EA = \$6,113 + tax = \$6,730

2021 Notes: No new updates were reported.

Previous Notes: We budget for preventative maintenance of the Station's interior electrical equipment. This budget is not intended to replace large scale electrical equipment. Since the electrical system is located inside the Station and is well protected from the elements, we expect the equipment to outlast the 30-year timeframe of this study.

FUTURE MAINTENANCE	
YEAR	COST
8 (2029)	\$8,608
28 (2049)	\$18,501
, ,	. ,

#### Stn.57 16.5.3 Emergency Generator - Contingency

**Life Safety** 

Maintenance Cycle: 20 years

Quantity: 1 Each

Next Maintenance: Year 18 (2039)

Unit Cost: \$8,147.14 / EA

**Estimate:** 1 EA X 100% X \$8,147.14/EA = \$8,147 + tax = \$8,970

2021 Notes: No new updates were reported.

Previous Notes: The emergency generator is tested frequently and reported to be functional. The budget provides funds to complete major repairs as needed to keep the equipment functional at all times.

FUTURE MAINTENANCE	
YEAR	COST
18 (2039)	\$16,658

#### Stn.57 16.6.2 Exterior Light Fixtures - Replace

**Life Safety** 

Maintenance Cycle:15 yearsNext Maintenance:Year 1 (2022)Quantity:5 EachUnit Cost:\$508.63 / EA

**Estimate:** 5 EA X 100% X \$508.63/EA = \$2,543 + tax = \$2,800

2021 Notes: Replacement of the light fixtures is planned for 2022.

Previous Notes: The exterior light fixtures were reported to be functional. The timing system controlling the building security lights was not working properly and may need repair to restore the system. The budget provides funds to replace four exterior bollard light fixtures and four building security light fixtures.

FUTURE MAINTENANCE						
YEAR	COST					
1 (2022)	\$2,912					
16 (2037)	\$4,808					

RESERVE CONSULTANTS LLC

PAGE 33 of 34



COMPONENT SUMMARY

FUTURE MAINTENANCE WITH INFLATED ESTIMATES

Next Maintenance: Year 8 (2029)

Maintenance Cycle: 20 years

Quantity: 1 Each

Unit Cost: \$3,560.40 / EA

**Estimate:** 1 EA X 100% X \$3,560.40/EA = \$3,560 + tax = \$3,920

2021 Notes: No new updates were reported.

Previous Notes: The installation date of the current fire alarm control panel is not known, so we have assumed that it is half way through its typical life cycle. No issues were reported. The budget allows for future replacement of the fire control panel.

FUTURE MAINTENANCE					
YEAR	COST				
8 (2029)	\$5,014				
28 (2049)	\$10,776				

#### Stn.57 18.1.2 Security / Surveillance System - Upgrade

Security

16-Nov-21

Maintenance Cycle: 10 years

**Quantity:** 1 Lump Sum **Estimate:** \$15,290

Next Maintenance: Year 1 (2022)

Unit Cost: \$15,290.00 / LS

2021 Notes: This component did not require an upgrade in 2020 and is now planned for 2022.

Previous Notes: The Station's security system is reportedly outdated and the Department was obtaining bids at the time of our site visit to upgrade the system within the next year. The budget provides funds to upgrade the existing security system and surveillance system in 2020 in conjunction with Station 51.

FUTURE MAINTENANCE						
YEAR	COST					
1 (2022)	\$15,902					
11 (2032)	\$21,578					
21 (2042)	\$31,941					





# KING COUNTY FIRE PROTECTION DISTRICT NO.16

7220 NE 181st Street KENMORE, WA 98028

BUSINESS: 425-354-1780 FAX: 425-354-1781

## **RESOLUTION NO. 20-10**

# SUPERSEDING RESOLUTION 17-02 RESOLUTION DEFINING FUND POLICIES

**WHEREAS**, on June 6, 2017, the Board of Fire Commissioners ("Board") of King County Fire Protection District No. 16 (the "District") approved Resolution 17-02 Defining Fund Policies; and

**WHEREAS**, the Board desires to redefine the District's fund policies by approving this Resolution 20-10 which shall supersede Resolution 17-02; and

WHEREAS, the financial affairs of the District are managed by the Board; and

**WHEREAS**, pursuant to RCW 52.14.100 the Board has the power to adopt reasonable rules to govern the District and to generally perform all such acts as may be necessary to carry out the objects of the creation of the District; and

**WHEREAS**, an integral part of financial planning is establishing General Expense and Reserve Funds to cover the costs of general operating expenses, facility maintenance and improvements, apparatus and equipment financing, employee benefits, and insurance obligations; and

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Fire Commissioners of King County Fire Protection District No. 16 that a General Expense and Reserve Fund Plan is established as follows:

#### I. GENERAL EXPENSE FUND

The General Expense Fund balance at year end shall be a minimum of four months of expenses excluding reserve fund contributions. This shall be calculated by determining the average monthly expense for as many full months available of the current year and multiplying that number by four. For example: In November, there are ten full months of the year and expenses total \$8,150,000. The average monthly expense is \$815,000. The minimum amount required in the General Expense Fund at the end of the year is \$3,260,000 (\$815,000 x 4 months). This balance in the General Expense Fund is meant to pay expenses incurred by the District during the first four to five months of the following year before the first revenue is received in late April/early May.

#### II. RESERVE FUND

# A. Reserve Fund Categories, Purpose, and Funding Levels

The Reserve Fund shall be organized into six main sub-categories to facilitate clear intent and accurate accounting. The level of funding of each category shall be no less than a minimum of the values stated below. Utilization of reserve funding shall be consistent with the associated purpose statements provided for each category.

#### 1. Natural Disaster

Purpose: To provide funding for overtime costs, casual labor,

temporary facilities, food and equipment for extended emergency operations lasting a minimum of 14 days.

Fund Level: \$250,000

# 2. <u>Insurance Contingency</u>

Purpose: To provide funding for losses normally covered by

insurance but exceeding coverage, such as: deductibles, non-insured loss, loss greater than insurance coverage, fines or uninsured litigation costs, labor relations litigation costs, unplanned attorney or consultant fees, court costs, penalties, judgments, and unemployment

claims.

Fund Level: \$200,000

# 3. <u>Loss of Revenue</u>

Purpose: To provide funding to allow for the continuation of

services in the event of an unanticipated and immediate

loss of revenue.

Fund Level: Three months of expenses based on the most recent

available calculation of average monthly expenses.

# 4. <u>Employee Benefit</u>

# Purpose:

A. To provide funding for LEOFF 1 medical insurance premiums, long-term healthcare premiums, and other approved medical and dental expenses.

B. To provide funding for post-employment benefits such as sick leave and vacation payouts. Replenishment of this fund may be spread out over several years or pre-funded if a significant number of retirements were known in advance.

#### Fund Level:

- A. Funded at 100 percent of the GASB recommendation for LEOFF 1 retirees.
- B. Funded at 50 percent of the maximum potential sick leave and vacation payouts as determined annually on the District's financial statement.

## 5. Apparatus and Equipment Replacement

Purpose: To provide funding for the replacement of apparatus,

vehicles, and equipment that are designated for replacement at specific intervals and have a calculated replacement cost

that would be difficult to fund through the annual

budgeting process.

Fund Level: Funded at 100 percent of the recommended amount shown

in the capital asset replacement plan for vehicles, apparatus,

and equipment.

# 6. <u>Facilities Improvement</u>

Purpose: To provide funding for the maintenance and improvement

of District facilities. This fund would be used for capital

improvement items such as roof repairs, HVAC replacement, etc. and not a substitution for annual

budgeting of normal facility maintenance.

Fund Level: Funded at 100 percent of the recommended annual

contributions shown in the facility reserve study conducted

in 2019 by Reserve Consultants LLC.

- B. Transactions expensed from the General Expense and Reserve Funds shall comply with the accounting principles established by King County Finance and Business Operations, the Washington State Auditor, and the RCW.
- C. The Fire Chief shall provide quarterly reports reflecting Reserve Fund activity in the BARS format as required by the Washington State Auditor and the RCW.

D. The Fire Chief shall submit Reserve Fund allocation recommendations to the Board of Fire Commissioners each year as required to maintain funding levels as established by this Resolution.

**BOARD OF FIRE COMMISSIONERS** 

**BE IT FURTHER RESOLVED**, that Resolution 17-02 is hereby repealed.

**ADOPTED** at a regular meeting of the Board of Fire Commissioners of King County Fire Protection District No. 16 on this 3<sup>rd</sup> day of November 2020.

# DAVID MAEHREN, Chair RICK VERLINDA, Member JOSH PRATT, Member DON ELLIS, Member RICK WEBSTER, Vice-Chair ATTEST:

From: <u>Dave Maehren</u>
To: <u>Dawn Killion</u>

Subject: RE: Electronic Signatures - Documents Approved 11/3/2020

Date: Wednesday, November 4, 2020 1:08:43 PM

Attachments: <u>image005.png</u>

image006.png image007.png image008.png image009.png

The following documents are Approved and Electronically Signed this 4th day of November, 2020, by Commissioner David C. Maehren.

- AP\_NOSHRFIR\_APSUPINV\_20201103161040 RES Fund
- AP NOSHRFIR APSUPINV 20201103161359 GEN Fund
- Resolution 20-10 Defining Fund Policies
- Resolution 20-08 Benefit Charge Resolution
- Resolution 20-09 Annual Property Tax Levy
- Resolution 20-07 Limit Factor Increase
- Minutes 2020-10-20
- GEN to RES Fun Facilities Reserve Fund Transfer Approval Document
- HRA Funds Transfer Approval Document
- October Payroll Approval Document
- October Payroll DRS Approval Document
- October Payroll Taxes Approval Document
- September Commissioner Payroll Approval Document
- September Commissioner Payroll Taxes Approval Document

David Maehren Fire Commissioer – Board Chair Northshore Fire Department Business Office 425.354.1780 Cell 206 604-3683



#### Proudly Serving the Citizens of Kenmore and Lake Forest Park

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From: Dawn Killion

Sent: Wednesday, November 4, 2020 9:06 AM

**To:** Commissioners <e-mailcommissioners@northshorefire.com> **Subject:** Electronic Signatures - Documents Approved 11/3/2020

Good morning Commissioners,

Attached please find the documents approved at last night's regular meeting. Also included are payroll approval documents (regular October monthly, September Commissioner Compensation Claims approved @ 10/6 meeting) and a couple of transfers done (Term Payout to HRA and Facility Reserve Monies Transfer).

At your earliest availability today, please respond with your electronic signature using the following verbiage:

The following documents are Approved and Electronically Signed this day of 2020, by Commissioner \_\_\_\_\_.

- AP NOSHRFIR APSUPINV 20201103161040 RES Fund
- AP NOSHRFIR APSUPINV 20201103161359 GEN Fund
- Resolution 20-10 Defining Fund Policies
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Thank you,

# Dawn Killion

Finance Specialist / Interim Board Secretary **Public Records Officer** 

#### **Northshore Fire Department**

7220 NE 181st ST, Kenmore, WA 98028

DIRECT: 425.354.1778 FAX: 425.354.1781 MAIN: 425.354.1780 www.northshorefire.com dkillion@northshorefire.com







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From: Rick Verlinda

To: Dawn Killion

Subject: RE: Electronic Signatures - Documents Approved 11/3/2020

Date: Wednesday, November 4, 2020 11:10:18 AM

Attachments: image001.png

image002.png image003.png image004.png

The following documents are Approved and Electronically Signed this 4th day of November, 2020, by Commissioner Verlinda.

- AP\_NOSHRFIR\_APSUPINV\_20201103161040 RES Fund
- AP\_NOSHRFIR\_APSUPINV\_20201103161359 GEN Fund
- Resolution 20-10 Defining Fund Policies
- Resolution 20-08 Benefit Charge Resolution
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- September Commissioner Payroll Approval Document
- September Commissioner Payroll Taxes Approval Document

#### **Rick Verlinda**

From: Dawn Killion < dkillion@northshorefire.com> Sent: Wednesday, November 4, 2020 9:06 AM

**To:** Commissioners <e-mailcommissioners@northshorefire.com> **Subject:** Electronic Signatures - Documents Approved 11/3/2020

Good morning Commissioners,

Attached please find the documents approved at last night's regular meeting. Also included are payroll approval documents (regular October monthly, September Commissioner Compensation Claims approved @ 10/6 meeting) and a couple of transfers done (Term Payout to HRA and Facility Reserve Monies Transfer).

At your earliest availability today, please respond with your electronic signature using the following verbiage:

- AP\_NOSHRFIR\_APSUPINV\_20201103161040 RES Fund
- AP\_NOSHRFIR\_APSUPINV\_20201103161359 GEN Fund
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- September Commissioner Payroll Taxes Approval Document

Thank you,

# Dawn Killion

Finance Specialist / Interim Board Secretary Public Records Officer

**Northshore Fire Department** 

7220 NE 181st ST, Kenmore, WA 98028

DIRECT: 425.354.1778 FAX: 425.354.1781 MAIN: 425.354.1780 www.northshorefire.com dkillion@northshorefire.com



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From: Josh Pratt

To: Dawn Killion

Subject: RE: Electronic Signatures - Documents Approved 11/3/2020

Date: Wednesday, November 4, 2020 6:27:05 PM

Attachments: image001.png

image002.png image003.png image004.png

The following documents are Approved and Electronically Signed this 4th day of November, 2020, by Commissioner Josh Pratt.

- AP\_NOSHRFIR\_APSUPINV\_20201103161040 RES Fund
- AP\_NOSHRFIR\_APSUPINV\_20201103161359 GEN Fund
- Resolution 20-10 Defining Fund Policies
- Resolution 20-08 Benefit Charge Resolution
- Resolution 20-09 Annual Property Tax Levy
- Resolution 20-07 Limit Factor Increase
- Minutes 2020-10-20
- GEN to RES Fun Facilities Reserve Fund Transfer Approval Document
- HRA Funds Transfer Approval Document
- October Payroll Approval Document
- October Payroll DRS Approval Document
- October Payroll Taxes Approval Document
- September Commissioner Payroll Approval Document
- September Commissioner Payroll Taxes Approval Document

From: Dawn Killion

Sent: Wednesday, November 4, 2020 9:06 AM

**To:** Commissioners <e-mailcommissioners@northshorefire.com> **Subject:** Electronic Signatures - Documents Approved 11/3/2020

Good morning Commissioners,

Attached please find the documents approved at last night's regular meeting. Also included are payroll approval documents (regular October monthly, September Commissioner Compensation Claims approved @ 10/6 meeting) and a couple of transfers done (Term Payout to HRA and Facility Reserve Monies Transfer).

At your earliest availability today, please respond with your electronic signature using the following verbiage:

The following documents are Approved and Electronically Signed this	day of <i>,</i>
2020, by Commissioner	

- AP\_NOSHRFIR\_APSUPINV\_20201103161040 RES Fund
- AP\_NOSHRFIR\_APSUPINV\_20201103161359 GEN Fund
- Resolution 20-10 Defining Fund Policies
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- October Payroll Taxes Approval Document
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- September Commissioner Payroll Taxes Approval Document

Thank you,

# Dawn Killion

Finance Specialist / Interim Board Secretary Public Records Officer

**Northshore Fire Department** 

7220 NE 181st ST, Kenmore, WA 98028 DIRECT: 425.354.1778

FAX: 425.354.1781 MAIN: 425.354.1780 www.northshorefire.com dkillion@northshorefire.com



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From: Richard Webster
To: Dawn Killion

Subject: RE: Electronic Signatures - Documents Approved 11/3/2020

**Date:** Thursday, November 5, 2020 12:43:04 PM

Attachments: image001.png

image002.png image003.png image004.png

The following documents are Approved and Electronically Signed this 5th day of November, 2020, by Commissioner Rick Webster.

- AP\_NOSHRFIR\_APSUPINV\_20201103161040 RES Fund
- AP\_NOSHRFIR\_APSUPINV\_20201103161359 GEN Fund
- Resolution 20-10 Defining Fund Policies
- Resolution 20-08 Benefit Charge Resolution
- Resolution 20-09 Annual Property Tax Levy
- Resolution 20-07 Limit Factor Increase
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- HRA Funds Transfer Approval Document
- October Payroll Approval Document
- October Payroll DRS Approval Document
- October Payroll Taxes Approval Document
- September Commissioner Payroll Approval Document
- September Commissioner Payroll Taxes Approval Document

From: Dawn Killion < dkillion@northshorefire.com> Sent: Wednesday, November 4, 2020 9:06 AM

**To:** Commissioners <e-mailcommissioners@northshorefire.com> **Subject:** Electronic Signatures - Documents Approved 11/3/2020

Good morning Commissioners,

Attached please find the documents approved at last night's regular meeting. Also included are payroll approval documents (regular October monthly, September Commissioner Compensation Claims approved @ 10/6 meeting) and a couple of transfers done (Term Payout to HRA and Facility Reserve Monies Transfer).

At your earliest availability today, please respond with your electronic signature using the following verbiage:

The following documents are Appr	oved and Electronically Signed this	day of _	
2020, by Commissioner			

AP\_NOSHRFIR\_APSUPINV\_20201103161040 RES Fund

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Thank you,

# Dawn Killion

Finance Specialist / Interim Board Secretary Public Records Officer

Northshore Fire Department

7220 NE 181st ST, Kenmore, WA 98028 DIRECT: 425.354.1778

FAX: 425.354.1781 MAIN: 425.354.1780 www.northshorefire.com dkillion@northshorefire.com



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	NSDF 2022 Budget	Eastside Proposal	Difference	Notes
Labor & Benefits (w/o admin labor) (a)	8,586,987	6,933,218	1,653,769	Exhibit 2 - Personnel Costs - Includes \$255,432.27 in est overtime
Operating Costs (b)	1,211,977	1,046,946	165,031	Exhibit 1 - Operational Costs
Administration (c)	1,034,121	783,016	251,105	10% of labor and operating costs Less \$15,000 facility credit
Commissioners & non-departmental expenses	190,945		190,945	
Capital Facilities Maintenance Charge		50,000	(50,000)	Payment for Services 4.1(C)
Equipment Replacement Charge		135,189	(135,189)	Payment for Services 4.1 (d)
Less insurance billing for transport		(750,000)		Per Eastside response to proposal #6
Total annual expense	11,024,031	8,198,369	2,075,662	
Start up Costs (one time expense)		412,936		100% vacation, 25% sick plus retirement eligible employee replacement cost

# **Comments re Eastside Proposal**

- (a) Labor and benefits will be adjusted to actual. The difference will be assessed by February of the following year
- (b)Operating costs is subject to annual 3% inflationary adjustment
- (c)Administration costs are based on 10% of the annual budget of labor & benefits and operating costs less \$15,000 facility credit
- (d) Equipment replacement charge is subject to annual adjustments 2023 expense is \$139,244 a 3% increase

	NSFD 2022 Budget	Shoreline Proposal	Difference	Notes
				Appendix B Labor (\$7,066,831) less admin less 10% of inspector less \$174,721 per Shoreline responses 3a, add \$596,009 in overtime less
Labor & Benefits	8,586,987	6,647,634	1,939,353	transport revenue \$245,178 (see SFD proposal page 26)
Operating Costs	1,211,977	852,981	358,996	Appendix C costs (\$1,137,309) less administration expenses (\$276,047 * 1.03) - Includes NEMCO \$38,173
Administration	1,034,121	1,247,110	(212,989)	Appendix B - NFD portion of Shoreline Admin (606,102) plus NFD admin (\$356,680) plus admin costs (\$276,047*1.03) (appendix C)
Commissioners & non-departmental expenses	190,945		190,945	Continuing expenses to be paid by NSFD
Capital Apparatus	-		-	Exhibit B in contract agreement - Reserve for apparatus, aid cars, support vehicles \$220,000 deleted per SFD response Reserves 2d
Capital Equipment		56,231		Items such as hose, SCBA, radios , etc - see capital equipment per SFD response questions
Total annual expense	11,024,031	8,803,957	2,276,305	
Employee Benefit Transfer		631,545		Transfer from reserves - Page 29 of SFD proposal

# **Comments re Shoreline Proposal**

- (1) Payments will be made in quarterly installments expenses will be reviewed quarterly, reforecasted and payment adjusted quarterly
- (2) SFD has implemented a Post-Employment Medical Benefits (PEMB). SFD estimates the additional cost of this program is offset by lower labor cost due to retirement
- (3) SFD contract says NFD shall pay SFD \$8,925,377 in quarterly installments. Should be changed to \$8,925,377 annual cost payable in 4 quarterly installments of \$2,231,344
- (4) SFD proposal mentions additional funding from GEMT. There is no credit included in the proposal for GEMT funding.

Contract Options (bracketed = benefit, no brackets = additional expense)	Eastside Proposal	Shoreline Proposal	
Reduce number of Battalion Chiefs	(460,089.81)	(432,500.00)	Per SFD response 3c. To be comparable I project the savings for 2 BC's based on 2022 salary cost
Reduce Aid 151 to 12 hour Response	(673,734.76)		
Add Dedicated Technical Rescue to Engine 151	116,486.00	18,503.00	
Add dedicated Hazardous Material Cap to 157	116,486.00		
Cost of administrating LEOFF1 Expenditures		3,979.00	Per SFD response #2
No transfer of Admin Personnel		(578,005.00)	Per SFD response 3b. Amount should only be \$356,680 as SFD is picking up a portion in the proposal
Not staffing peak-hour Aid 157 overtime reduction	on	(284,700.00)	Per SFD response 3d.
Not billing for Transport		292,742.00	Per SFD response 3d. Amount per Appendix B is \$245,178.18
Delete Division/District Chief for 2022		(223,197.00)	Per SFD response 3e. Included in "no transfer of Admin Personnel"

# **WARRANT/CHECK REGISTER**

Northshore Fire Department

Time: 12:41:52 Date: 11/15/2021

11/22/2021 To: 11/22/2021 Page: 1

					,,, ,,,		
Trans	Date	Туре	Acct #	War#	Claimant	Amount	Memo
1837	11/22/2021	Claims	1	0	ARAMARK UNIFORM SERVICES	16.52	Lobby Mats
1839	11/22/2021	Claims	1	0	CDW GOVERNMENT	4,572.67	New CISCO Firewall
1840	11/22/2021	Claims	1	0	CDW GOVERNMENT	•	Docking Station Parts
1841	11/22/2021	Claims	1	0	CENTURY LINK		Phones - St 57
1842	11/22/2021	Claims	1	0	CFO SELECTIONS LLC	660.00	Q3 Reconciliation
1843	11/22/2021	Claims	1	0	CITY OF BOTHELL FIRE AND EMS		Fire Marshal Services - October
1844	11/22/2021	Claims	1	0	CITY OF BOTHELL FIRE AND EMS	•	Reimbursment - Burn Prop Training
1845	11/22/2021	Claims	1	0	EASTSIDE FIRE & RESCUE		Reimbursement for WFR - Burn
1015	,,	Cidiiiis	•	· ·	ENSISIBLI INC & NESCOL	750.07	Prop Training
1846	11/22/2021	Claims	1	0	EASTSIDE PUBLIC SAFETY COMM. AGENCY	1,061.55	Nov 2021 - Radio Access Fees
1847	11/22/2021	Claims	1	0	EASTSIDE PUBLIC SAFETY COMM. AGENCY	489.44	Nov 2021 - Maintenance Agreement
1848	11/22/2021	Claims	1	0	ECMS ENSEMBLE CARE MAINTENANCE SERVICE	615.30	PPE Repair - Bracket & Pritchett
1849	11/22/2021	Claims	1	0	ELEVATOR PROGRAM	140.90	Elevator Annual Operating Certificate
1850	11/22/2021	Claims	1	0	FIRE DEPT SAFETY OFFICERS ASSOC	525.00	Health & Safety Office Certification - Heilman
1851	11/22/2021	Claims	1	0	JAYMARC - AV	330.30	Audio Fix in Bay
1838	11/22/2021	Claims	1	0	JOHN A BURROW	464.37	Per Diem & Travel - Training
1852	11/22/2021	Claims	1	0	KINIC COUNTY FINIANICE	1 067 00	Workshop Idaho I-Net October
1032	11/22/2021	Claims	Į	0	KING COUNTY FINANCE DIVISION	1,667.00	1-Net October
1853	11/22/2021	Claims	1	0	LIFE ASSIST	275.25	COVID Supplies - St 51
1854	11/22/2021	Claims	1	0	LIFE ASSIST		COVID Supplies - St 57
1855	11/22/2021	Claims	1	0	LIFE ASSIST	261.89	EMS Supplies
1856	11/22/2021	Claims	1	0	LIFE ASSIST	275.25	COVID Supplies - St 57
1857	11/22/2021	Claims	1	0	LINDE GAS & EQUIPMENT INC.	35.51	Oxygen
1858	11/22/2021	Claims	1	0	NATURAL CONCEPT LANDSCAPE	515.63	Landscaping - St 51
1859	11/22/2021	Claims	1	0	NATURAL CONCEPT LANDSCAPE	137.63	Irrigation Winterization - St 51
1860	11/22/2021	Claims	1	0	NORCOM	7,413.08	IT Services - October
1861	11/22/2021	Claims	1	0	NORTH LAKE MARINA	50.57	Fuel
1862	11/22/2021	Claims	1	0	NORTHSHORE UTILITY DISTRICT (NUD)	3,724.68	Fuel & Maintenance - October
1863	11/22/2021	Claims	1	0	O'REILLY AUTO PARTS	146.29	Mixed Gas/Fuel & Fluids
1864	11/22/2021	Claims	1	0	REPUBLIC SERVICES #172	414.96	Garbage/Recycle - St 51
1865	11/22/2021	Claims	1	0	REPUBLIC SERVICES #172	155.71	Garbage - St 57
1866	11/22/2021	Claims	1	0	SHORELINE FIRE DEPARTMENT		Reimbursement - Burn Prop Training
1867	11/22/2021	Claims	1	0	SOFTWARE ONE	24,430.28	Office Licensing Renewals
1868	11/22/2021	Claims	1	0	UNIVERSITY OF WASHINGTON -		Leadership Academy - Burrow
	, , ·				CLST	,	
1869	11/22/2021	Claims	1	0	US BANK	5,249.16	Charges for cards ending 4689, 5507 & 6729
1870	11/22/2021	Claims	1	0	VERIZON BUSINESS	720.59	VOIP - St 51
1871	11/22/2021	Claims	1	0	VERIZON BUSINESS	744.41	VOIP - St 51
1872	11/22/2021	Claims	1	0	WALTER E NELSON CO OF WESTERN WA	39.81	Janitorial Supplies
1873	11/22/2021	Claims	1	0	WESTLAKE HARDWARE	8.80	Fasteners

001 General Fund 10-016-0010

68,511.74 Claims:

68,511.74

WARRANT/CHECK REGISTER

Northshore Fire Department Time: 12:41:52 Date: 11/15/2021

11/22/2021 To: 11/22/2021

Page:

2

Туре War# Claimant Trans Date Acct # Amount Memo

**WARRANT/CHECK REGISTER** 

Northshore Fire Department Time: 12:41:00 Date: 11/15/2021

11/22/2021 To: 11/22/2021 Page: 1

Trans Date Type Acct # War# Claimant Amount Memo 653.60 LEOFF I 1835 Claims 11/22/2021 4 0 GARY PEDERSEN 42,241.00 Half down for 2 new watercraft 1836 11/22/2021 Claims 4 0 RP ADVANCED MOBILE SYSTEMS

004 Reserve Fund 10-016-6010 42,894.60

Claims: 42,894.60

42,894.60

# Northshore Fire Department Fire Commissioner Request for Compensation

Month:	Oct	Year:	2021	Name:	Milton Curtis	
Date		Description of Activity			Hours	
10/4/21					lar Board Meeting	1.75
10/5/21					ar Board Meeting	2.0
10/8/21			N:	S FD Speci	al Board Meeting	0.5
10/11/21		Analyze Shoreline Proposal and prepare document for Board discussion			2.5	
10/14/21			Budg	get Meeting	with FC McDonald	1.75
10/	18/21		Pre	p for Regu	lar Board Meeting	1.5
10/19/21			NS	S FD Regul	ar Board Meeting	3.5

I certify by signing this request for compensation that I have acted on behalf of the Northshore Fire Department in the fulfillment of my duties as an elected Fire Commissioner and that this request for compensation is in compliance with the Northshore Fire Department policy and State Law.

Signature Nov 1, 2021

# Northshore Fire Department Fire Commissioner Request for Compensation

Month:	Octob	Year:	2021	Name:	Adman	
Date			Г	escriptio	n of Activity	Hours
5					neeting	3
	6			FC con	tract review	1
	7			FC con	ract review	1
	8			Special	FC meeting	2
	12			Budget me	eting with chief	2
	13	Review m	eeting minute	es and reply t	o email correspondence, budget review	1
	18			Mee	ting prep	11
	19			FC	meeting	3.5
	20		Rev	iew proposa	clarification memos	1
	22		Rev	riew proposa	clarification memos	1
	24		Rev	riew proposa	clarification memos	3
	25		Rev	riew proposa	clarification memos	2
					aft minutes, email correspondence	
					(3)	

I certify by signing this request for compensation that I have acted on behalf of the Northshore Fire Department in the fulfillment of my duties as an elected Fire Commissioner and that this request for compensation is in compliance with the Northshore Fire Department policy and State Law.

Eric Adman	Digitally signed by Eric Adman Date: 2021.11.02 15:15:07 -07'00'		
Signature		Date	



# KING COUNTY FIRE PROTECTION DISTRICT NO.16

7220 NE 181st Street KENMORE, WA 98028

BUSINESS: 425-354-1780 FAX: 425-354-1781

MINUTES November 2, 2021

# REGULAR MEETING BOARD OF COMMISSIONERS at Northshore Fire Department's Headquarters Station 51 Virtual Meeting via Zoom

#### I. OPEN REGULAR NORTHSHORE MEETING

1.1 Roll Call

Chair Rick Webster called the meeting to order at 5:00 PM.

Persons in attendance were Commissioners Eric Adman, Milton Curtis, Rick Webster, and Dave Maehren. Also present was Chief McDonald, Legal Counsel Matt Paxton, Board Secretary Amy Oakley, and 15 members of the public. Commissioner Pratt was absent.

#### II. PUBLIC COMMENT

2.1 No public comments.

#### III. APPROVAL OF THE AGENDA

- 3.1 Commissioner Maehren moved to add Item 4.8 Discussion of Fire Chief Performance Review.
- 3.2 Commissioner Maehren moved to adopt the agenda as amended. Commissioner Curtis seconded. The motion passed unanimously.

# IV. BOARD DISCUSSION AND POSSIBLE ACTION ITEMS

- 4.1 Conversation with IAFF, Local 2459
  - o President, Jeremiah Ingersoll, had no comments for the Board.
- 4.2 Continuation of Public Hearing on 2022 Proposed Budget

Commissioner Webster moved to open the public hearing to review and establish the District's benefit charge to be imposed in 2022; and, the public hearing to review and establish the District's 2022 budget.

- 4.2.1 2022 Budget Update Report
- o Chief McDonald presented an overview of the updated proposed 2022 budget.
- The Board discussed the levy limit worksheet, time schedule, HVAC system at Station 57, and facility reserve fund.
- 4.2.2 Public Comment

Commissioner Webster moved to open the public testimony portion of the public hearing to review and establish the District's benefit charge to be imposed in 2022; and, the public hearing to review and establish the District's 2022 budget.

- The Board of Commissioners heard public comment from Lake Forest Park resident, Mike Dee.
- 4.2.3 Close Public Comment

Commissioner Webster moved to close the public testimony portion of the public hearing to review and establish the District's benefit charge to be imposed in 2022; and, the public hearing to review and establish the District's 2022 budget. Commissioner Maehren seconded. The motion passed unanimously.

- 4.2.4 Board Discussion
- O Commissioner Maehren suggested revisiting Resolution 20-10 at a future special meeting.
- 4.2.5 Board Direction to Staff for 2022 Budget

Commissioner Maehren moved to accept the expense, revenue, and reserve budgets as presented. Commissioner Curtis seconded. The motion passed unanimously.

- 4.3 RCL Reserve Funding Study- Revisit Resolution 20-10
  - o The study was not available.
- 4.4 Updated Policy 1400- Board Meetings
  - o Commissioner Maehren presented changes to the updated version of Policy 1400.

Commissioner Maehren moved to adopt Policy 1400 as presented. Commissioner Webster seconded. The Board discussed. The motion passed unanimously.

- o The Board welcomed Advisory members candidates Lisa Wollum and Nate Herzog.
- 4.5 Review Policy 2733- Optional Time Off
  - o Chief McDonald presented changes proposed to Policy 2733.

Commissioner Curtis moved to adopt Policy 2733 as presented. Commissioner Adman seconded. The motion passed unanimously.

- 4.6 Contract for Services Update
  - o The Board reviewed the memos sent to Chief Clark and Chief Cowan.
  - The Board reviewed and discussed clarifying questions with Chief Cowan.
- 4.7 Discussion of Potential Future Special Meetings
  - The Board discussed having a special meeting on November 9<sup>th</sup> to discuss Reserve Fund Resolution 20-10, Reserve Funding Study, extension the NORCOM agreement, extension of Bothell Fire Marshall services, Chief's review process, Contract for Services update

Commissioner Maehren moved to have a special meeting Tuesday November 9<sup>th</sup> at 5pm. Commissioner Webster seconded. The Board Discussed. Commissioner amended the motion to start meeting at 4pm. The motion passed unanimously.

4.8 Discussion of Fire Chief Performance Review

o The Board discussed the process for Fire Chief's performance review.

# V. BOARD RESOLUTIONS

5.1 Resolution 21-04, 2022 Fund Allocation for NORCOM

Commissioner Maehren moved to accept the Resolution 21-04 as presented. Commissioner Curtis seconded. The motion passed unanimously.

5.2 Resolution 21-05, 2022 Fire Benefit Charge

Commissioner Maehren moved to accept the Resolution 21-05 as presented. Commissioner Adman seconded. The motion passed unanimously.

5.3 Resolution 21-06, 2022 Property Tax Levy

Commissioner Maehren moved to accept the Resolution 21-06 as presented. Commissioner Adman seconded. The motion passed unanimously.

#### VI. CONSENT AGENDA

- 6.1 Vouchers
  - o The General Fund Vouchers totaled \$134,061.64
  - o The Reserve Fund Vouchers totaled \$2,399.45
- 6.2 Commissioner Compensation
- 6.3 Meeting Minutes: 10/19/2021

Commissioner Curtis moved to accept the consent agenda as presented. Commissioner Webster seconded. The Board discussed. The motion passed unanimously.

#### VII. REPORTS

- 7.1 Fire Chief Report
  - Chief McDonald updated the Board regarding and upcoming insurance onsite review to interview Chief McDonald.
  - Chief McDonald updated the Board on the pilot procedure for masking and testing at Station 51 to accommodate non-vaccinated members at the North King County Training Consortium.
- 7.2 <u>Commissioner Reports</u>
  - o Commissioner Webster will invite the commissioner candidates and City Councils to participate in non-voting Advisory Board.
  - o The Board Secretary will include Advisory members in emails for the board meetings.
- 7.3 <u>Legal Counsel Reports</u>
  - o Legal Counsel Paxton updated the Board on the Washington State Fire Commissioners Annual Conference.

# VIII. UPCOMING BOARD AGENDAS

- 8.1 Setting of Future Meeting Agenda(s)
  - Special meeting Nov. 9<sup>th</sup> to discuss Reserve Fund Resolution 20-10, Reserve Funding Study, extension the NORCOM agreement, extension of Bothell Fire Marshall services, Chief's review process, Contract for Services update.

 November 16<sup>th</sup>- IT update, update reimbursement mileage policy, meeting times, Commissioner Curtis parting thoughts. FD16 Operations discussion, Fire Chief Performance Review process.

# **ADJOURNMENT**

The meeting adjourned at 6:55PM

# **NEXT MEETING DATE**

The next Board of Commissioners meeting is scheduled for November 19, 2021.

Attachments: Agenda, 2022 Budget, 2022 King County Assessor Levy Form, Resolution 20-10, Policy 1400, Policy 2733, Contract Clarification letters to ESF&R and Shoreline, Resolution 21-04, Resolution 21-05, Resolution 21-06, Vouchers, Commissioner Compensation, Meeting Minutes 10/19, Chief's Report, Pilot Program for non-vaccinated.

	BOARD OF COMMISSIONERS
	ERIC ADMAN, Member
	JOSH PRATT, Member
	MILTON CURTIS M.D., Member
	RICK WEBSTER, Member
	DAVID MAEHREN, Member
ATTEST	
Amy Oakley, Secretary	
King County Fire Protection District No. 16	
Adopted at a Regular Meeting of the Board of Com	missioners on November 16 <sup>th</sup> , 2021



# KING COUNTY FIRE PROTECTION DISTRICT NO.16

7220 NE 181st Street KENMORE, WA 98028

BUSINESS: 425-354-1780 FAX: 425-354-1781

MINUTES November 9, 2021

# SPECIAL MEETING BOARD OF COMMISSIONERS at Northshore Fire Department's Headquarters Station 51

Virtual Meeting via Zoom

#### I. OPEN SPECIAL NORTHSHORE MEETING

1.1 Roll Call

Chair Rick Webster called the meeting to order at 4:00 PM.

Persons in attendance were Commissioners Eric Adman, Josh Pratt, Milton Curtis, Rick Webster, and Dave Maehren. Also present was Chief McDonald, Legal Counsel Matt Paxton, Advisory Board member Nate Herzog, and Board Secretary Amy Oakley, and 11 members of the public.

#### II. PUBLIC COMMENT

2.1 No public comments.

#### III. APPROVAL OF THE AGENDA

3.1 Commissioner Adman moved to adopt the agenda as presented. Commissioner Pratt seconded. The motion passed unanimously.

#### IV. BOARD DISCUSSION AND POSSIBLE ACTION ITEMS

- 4.1 Conversation with IAFF, Local 2459
  - o Vice President, Brian Ford, had no comments for the Board.
- 4.2 RCL Capital Reserve Funding Study
  - o The updated study was not available. The study is expected to be completed in the next couple of weeks.
  - o The Board will continue to discuss this item at the next meeting.
- 4.3 Revisit Reserve Funding Resolution 20-10
  - o The Board will carry this item forward to the next meeting.
  - Chief McDonald provided an update on the amount of reserve dedicated to facilities in the 2022 budget.
  - o The Board will continue to discuss this item at the next meeting.
- 4.4 Fire Marshall and IT ILA Agreements
  - o Chief McDonald updated the Board on the progress of an addendum to extend the NORCOM IT contract through the first quarter of 2022.

- Chief McDonald provided an update that the City of Bothell will not extend their ILA to provide Fire Marshall services after December 31, 2021.
- o The Board discussed options for covering Fire Marshall duties in the first quarter of 2022.
- o The Board will continue to discuss this item at the next meeting.
- 4.5 Contract for Services Update
  - o Chair Webster updated the Board that consultant Tom Broetje will review the materials and provide a briefing at the next meeting.
  - o The Board will continue to discuss this item at the next meeting.

#### **EXECUTIVE SESSION**

The Board moved into Executive Session at 4:27PM until 4:42PM to discuss with legal counsel representing the agency matters relating to litigation or potential litigation pursuant to RCW 42.30.110(1)(i), and to discuss the performance of an employee pursuant to RCW 42.30.110(1)(g). The Board extended the session by five minutes. The Board moved back into open session at 4:50PM.

- 4.6 Fire Chief Performance Review Discussion
  - o The Board will prepare a draft performance review for Chief McDonald and will discuss further at a future meeting.

#### V. UPCOMING BOARD AGENDAS

5.1 In addition to the standard items, the November 16<sup>th</sup> meeting agenda will include RCL Reserve Funding Study, Reserve Funding Resolution 20-10, Fire Marshall ILA Agreements, NSFD operations discussion, Fire Chief Performance Review process, report out from Tom Broetje on the Contract for Services Proposals, and Water Rescue Program overview.

# **ADJOURNMENT**

The meeting adjourned at 4:55PM

# NEXT MEETING DATE

The next Board of Commissioners meeting is scheduled for November 16, 2021.

Attachments: Agenda, NSFD 2019 Capital Reserve Study, Resolution 20-10, Fire Marshall ILA, Contract Clarification and Responses from Eastside Fire & Rescue and Shoreline Fire Department.

e and Shoreline F	Fire Department.
BOARD OF CO	OMMISSIONERS
ERIC ADMAN	, Member
JOSH PRATT,	Member

	MILTON CURTIS M.D., Member
	RICK WEBSTER, Member
	DAVID MAEHREN, Member
ATTEST	
Amy Oakley, Secretary	
King County Fire Protection District No. 16	
Adopted at a Regular Meeting of the Board of Co	ommissioners on November 16 <sup>th</sup> , 2021



# KING COUNTY FIRE PROTECTION DISTRICT NO.16

7220 NE 181st Street KENMORE, WA 98028

BUSINESS: 425-354-1780 FAX: 425-354-1781

#### **MEMORANDUM**

DATE: November 12, 2021

TO: Board of Fire Commissioners

FROM: Doug McDonald, Interim Fire Chief

RE: Chief's Report

Please see the Chief's report submitted for November 16, 2021.

- 1. Captain John Burrow will continue as the NSFD Training Captain in 2022. This will be year 3 of his appointment. He is doing an outstanding job and we are excited to see what 2022 will bring with his continued leadership in that position.
- 2. Our recruit is progressing, they completed week 11 of the academy on October 29<sup>th</sup>. Currently there are 22 recruits progressing through the academy. They had a state Hazmat Operations exam this last week we are awaiting the results.
- 3. Along with Kirkland Fire, NSFD has ordered our (2) new watercraft for our water rescue program. Anticipated arrival date will be March 2022. The vendor required 50% down. This was accomplished through funds from the apparatus reserve that will be replenished upon receipt of 2022 budget dollars.
- 4. All NSFD apparatus is operational. In collaboration with Zone 1 Tech Rescue and UASI Rescue 151 is being equipped with state of art structural collapse equipment identical to the other ladder trucks in the zone. Big thanks to Anders Hansson, Brian Ford, and FF Randy Hart from the Bellevue Fire Department for making this happen. We have also place battery powered nail guns and circular saws in service on Rescue 151. This will assist in noise reduction due to the need for an air compressor or generator and assist in remote location use without a air hose or extension power cord.
- We currently have 3 Operations members off on disability, FMLA. Overtime expenses are anticipated to be well over current budgeted amounts. Consideration to utilize disaster funds to help offset overage.
- 6. We are scheduling monthly Labor/Management meetings to ensure we address any issues at the lowest level. At our most recent L/M meeting, we signed a MOU regarding the BC list 1

year extension and have a policy update on time off that will be coming to the board for approval.

- 7. The NKCTC will be conducting two academies in 2022. This involves the use of Station 51's facility for most of the year by recruits/instructors and associated staff. We anticipate have recruits in both along with an instructor from the NSFD.
- 8. NSFD was contacted by the Washington Survey Rating Bureau on September 30. They advised us that we will be up for a review in 2022. Our current WSRB rating is a Class 3. We moved from a 4 to a 3 in December of 2017. We have 4 members participating in an online webinar to help prepare us for the upcoming evaluation. Chief McDonald and Inspector Booth both attended a online webinar on how to properly prepare for a WSRB review on November 3, 2021.
- 9. The district received a memo from DC/FM Noble on November 3, 2021, stating that he will not be able to extend his duties as our Fire Marshal past December 31, 2021. Administration has begun to look at other options including looking at retired FM/Plans reviewers to fill in or contracting out until a determination is made as to a contract for service.
- 10. Chief McDonald has contacted NORCOM, and they are willing to extend the IT contract through the 1<sup>st</sup> qtr. of 2022.
- 11. The districts insurance company VFIS will be onsite with Chief McDonald on November 18<sup>th</sup> to conduct an in-person review of the districts insurance needs and evaluate our driving, training, and other risk related items. Chief McDonald has met via phone with the VFIS, and we have all compiled records required ready to go for this visit.
- 12. The district is currently gathering information on 4 Public Records Request, plus preparing for a 5th Public Records Request. The district is following the recommendation of legal, and we believe all timelines have been met as of October 1,2021. We are also in the process of hiring a temporary administrative person to deal specifically with the PRR. I will provide you an update as we progress.

HR Manager and members of our staff conducted rapid interviews (10) minutes long and 3 different panels to determine candidates that will move forward to the full oral board. Our team interviewed 61 candidates and have approx. 21 candidates moving forward to the oral board. The district had over 1000 people apply for NSFD through National Testing Network. Big thank you to HR Manager Moore, Kathy Walsh, BC Hochstein, Lt. Pritchett, ALT Ross, FF Wilkinson for their work during these long days.

- 13. Electrical work at 51 is complete, lighting around the drill ground, parking lot and station has been upgraded based on the request from facility program manager BC Morris.
- 14. DC/FM Noble reported that previous Northshore Fire Commissioner Ron Gehrke passed away over the weekend. We have his family in our thoughts.

# **HR Report/Hiring Update**

• FF Hiring Update: Applicants were reviewed and top candidates were invited to participate in rapid assessment interviews with three groups of District personnel. Candidates have been chosen from the participants and invited to interview with our oral board panel

and complete a cognitive skills assessment the week of November 15. Selected candidates will move forward to a Chief interview.

- AS Kunkel passed her Inspector 1 exam.
- AS Kunkel is preparing information for Fire Benefit Charge deadlines.
- 2022 shift assignments were distributed to members.
- Open enrollment has begun. Communications have been sent out, with required annual notices following soon.
- Performance evaluation season continues. HRM Moore continues to work with supervisors to complete. AS Kunkel and HRM Moore continue to support staff with any technical support needed.
- HRM Moore created and distributed monthly newsletter.
- HRM Moore has begun review of job descriptions to ensure up-to-date.
- HRM Moore continues work with neighboring agencies to support the recruitment efforts to fill the NEMCo Emergency Manager vacancy.

# **TRAINING UPDATE**

- NKCTC Training Officer's assisted the NKCTC Academy with Live Fire training at North Bend Washington State Patrol Fire Academy.
- NKCTC Training Officer's assisted the NKCTC Academy with Live Fire at Renton Station 14.
- NKCTC Training Officer's delivered tactical training to crews with the area of focus on: Initial Radio Reports, Follow-up Radio Reports, and creating Divisions and Groups.
- NKCTC Training Officer's finalized the curriculum for the fourth quarter Tactical Training
- The NKCTC Academy 21-1 is currently in Week 12 (week of November 15).

# FIRE PREVENTION/PIO/PUBLIC OUTREACH

FM issued 6 single family resident fire sprinkler permits

FM assessed 2 short plat reviews for the City of Kenmore

Inspector Booth conducted 19 code enforcement inspections

Inspector Booth conducted 4 sprinkler/fire alarm inspections

Inspector Booth issued 1 tank permit

Inspector Booth followed up on several outstanding permits

Inspector Booth worked with a local business on a fire alarm issue and establishing a Fire Watch

Inspector Booth worked with the Northshore School District and City of Kenmore on new security fencing around schools

Inspector Booth worked with 3 businesses to update keys in knoxboxes

Inspector Booth attended a workshop webinar for WSRB

Inspector Booth continued work with Sybatech (CodePAL inspection software company) to resolve an issue on the Surface Tablet

Inspector Booth is working on CodePAL (inspection program) to clear corrected violations from the database

Inspector Booth working with LFPPD/NEMCo Steering Committee on a CERT Final on 11/20

Inspector Booth continuing to work through an ongoing TCE (The Compliance Engine) database issue—managing deficiencies in fire and life safety systems in district

Inspector Booth pushed out power outage & fall back (change your clock/change your smoke alarm batteries) information on Facebook.

Reaction time 51	Reaction Time 57	Response Time Avg	Response Time 90%
90% Fractile	90% Fractile	Call received to O/S	Call received to O/S
A shift 1:45	A shift 2:27	5:32	9:03
B shift 1:51	B shift 2:20		
C shift 2:42	C shift 2:02		
D shift 2:10	D shift 1:45		
<mark>11/12</mark>	<mark>11/12</mark>		

Call Types of	Number of Calls -Nov 3-Nov 12, 2021
Rescue	1
Structure Fire	0
Natural Vegetation	0
EMS	73
Odor Smoke	0
Electrical wiring	2
Flammable Liquid spill	2
Public Service	6
Dispatched and cancelled	10
Water problem	1
False alarm/system malfunction	4
Other	0
Total calls	99

# COVID-19 Update as of 10/25/2021

- 1. 165164 total cases all (King County)
- 2. 8471 total hospitalizations all (King County)
- 3. 2012 total fatalities all (King County)
- 4. Kenmore 1159 total cases,74 hospitalizations and 19 fatalities,
- 5. LFP 554 total cases, 22 hospitalizations and 5 fatalities
- 6. King County Vaccination rate 83% completely vaccinated
- 7. NSFD will be participating in a pilot program authorized by Dr. Rea. Document is attached. NO positive cases identified
- 8. Boosters are now approved for all three vaccines for folks over 65, under 65 if high risk and health care workers
- 9. Reminder that the proof of vaccination is now required in King County KC Public Health is monitoring compliance

# Auto Aid IN to Assist NSFD (All Call Types)

Kirkland	0	11-3-11-12
Bothell	1	
Shoreline	4	

# **Auto Aid OUT of District (All Call Types)**

Kirkland	6	11-2-11-12
Bothell	4	
Shoreline	4	