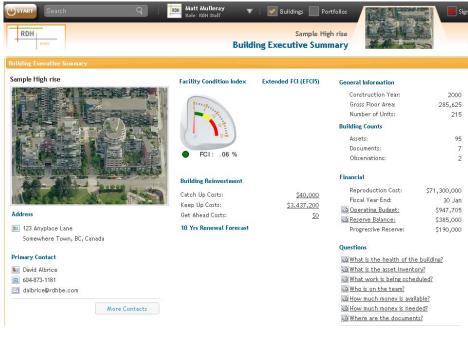


Depreciation Reports & The Strata Property Act of British Columbia

---> Matt Mulleray, P.Eng.



April 29, 2012 Nanaimo, BC



RDH

Agenda

- ---> Depreciation Reports and New BC Regulations
- --> Report Requirements
 - Types of assets
 - --> Service life estimates
 - ---> Renewal and major maintenance items
- ---> Evaluating proposals



What is a Depreciation Report?

- A depreciation report is a legislated planning requirement for strata corporations of 5 strata lots or more.
 - --- A strata can vote to decline the deprecation report (3/4 vote)
- --- Long-range financial planning tool (30 year forecast)
- --- A static document that requires updates every 3 years.
- --- An element utilized in the operation of a building







What is the purpose of a Depreciation Report?

Long term planning for maintenance and renewals for <u>common</u> property and <u>common</u> assets that a strata corporation is required to maintain and repair

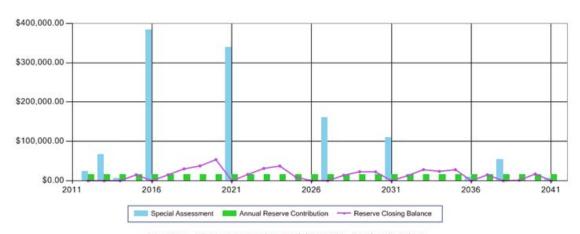
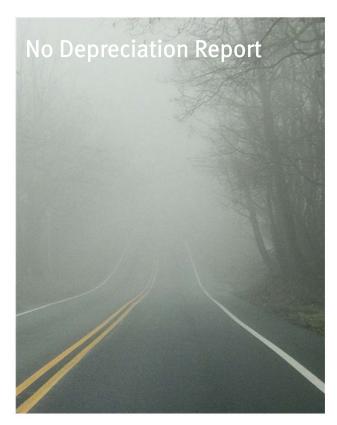


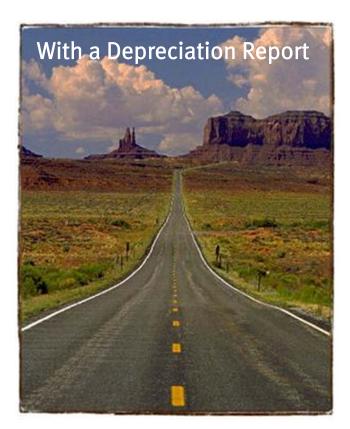
Fig. 5.2.2 Status Quo Funding Model \$16,000: Graphical Analysis



Value of a Depreciation Report



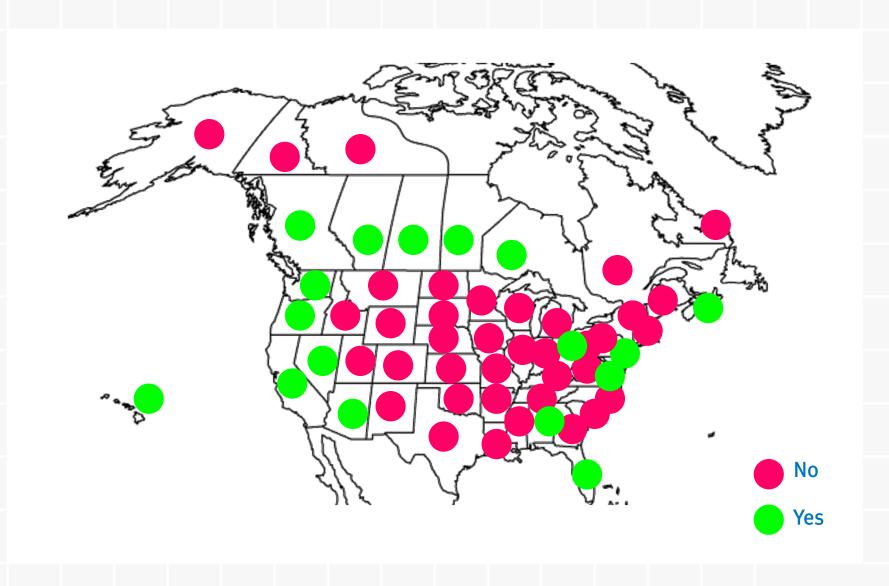
Lots of surprises; not much peace of mind "Failing to plan is planning to fail"



Few surprises; peace of mind "Plan the work and work the plan"

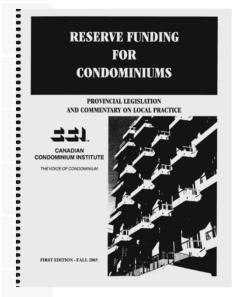


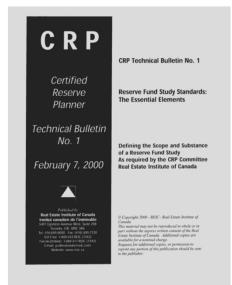
Are Mandatory Depreciation Reports Common?

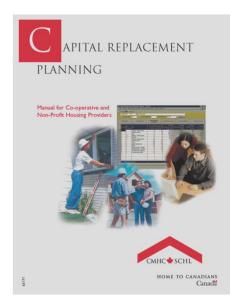


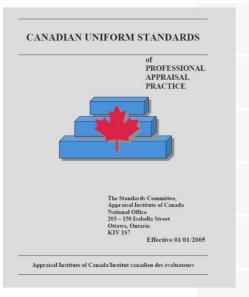


Standards & Best Practices









CCI,2003 REIC, 2000 CMHC, 2005 AIC, 2005

Reserve Fund Study, Capital Replacement Plan, Depreciation Report (?)



Required Content within Depreciation Report

- --> Physical component inventory of **commonly owned assests**
- ---> Evaluation based on an on-site visual inspection
- All repair, renewal, and <u>maintenance costs</u> (> 1 year frequency) anticipated for each asset for a 30-year planning horizon
- ---> Factors used to calculate costs (ie. inflation, tax rate, interest rate)
- --- Current balance of CRF and minimum of 3 cash flow funding models

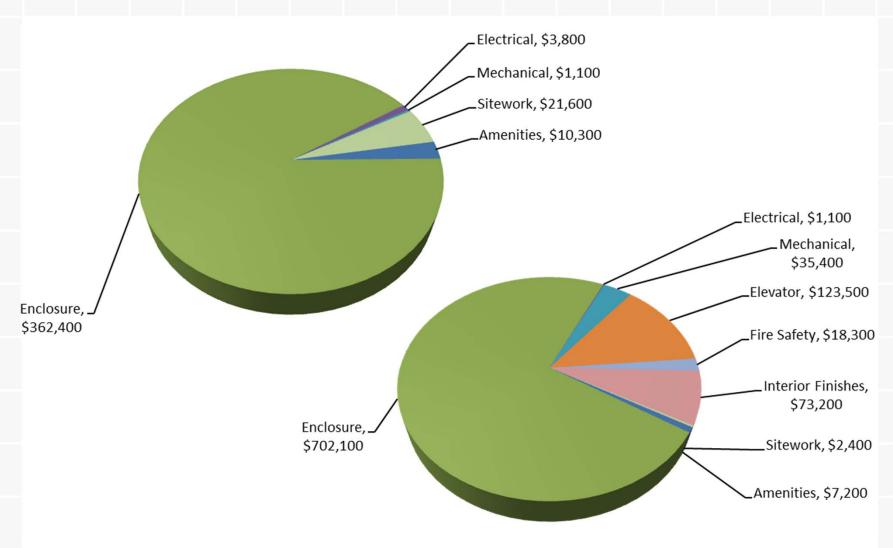


Who is a Qualified Person?

- Legislation requires depreciation report to be completed by a "qualified person"
- Why are Building Envelope Engineers leading the completion of many of the reports within the current market?



Example Breakdowns of Typical Building Renewal Costs



5-yr Building Renewal Costs



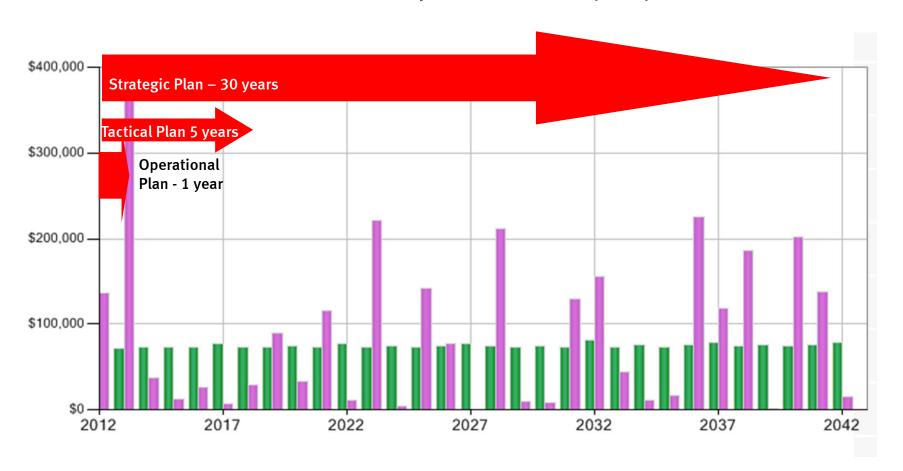
E&O Insurance

How does E&O insurance affect the depreciation planner and the strata corporation?

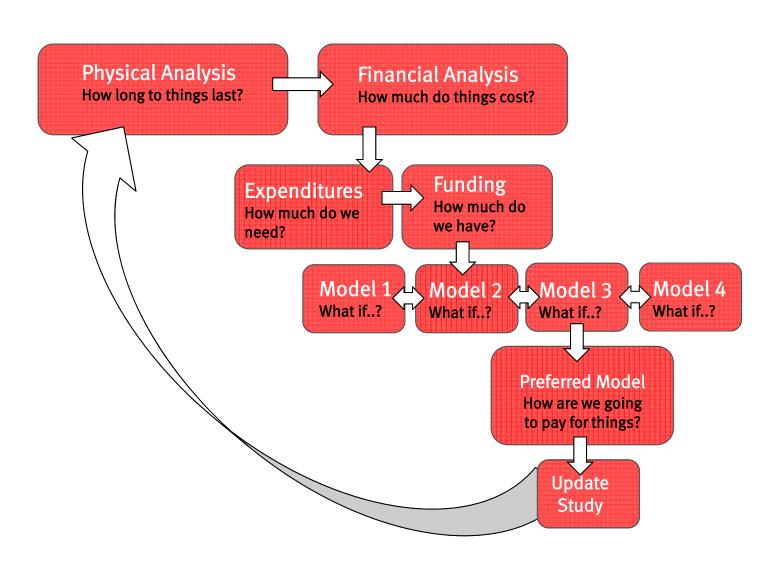
Errors and Omissions insurance, if carried by the depreciation planner, is basically carried for the purpose of protection of the consumer and planner in the event there is a material error in the report that results in a loss or claim against the strata corporation.

How long is a Depreciation Report Valid For?

30 Year timeline to be updated every 3 years



Process to Complete a Depreciation Report





Documents Required for a Depreciation Report

Financial Documents

- Operating budget
- --- Balance sheet
- General ledger
- Copies of invoices
- Insurance certificate/appraisal

Legal Documents

- --> Reciprocal easements
- Service agreements
- Air Parcel Agreements
- --> Leases and Licenses

Technical Documents

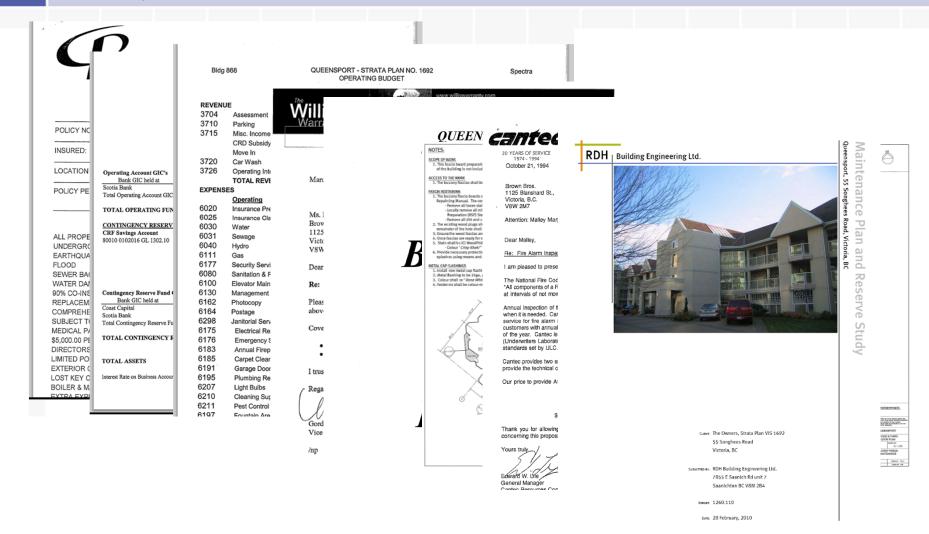
- Drawings
- ---> Prior investigation reports
- Annual fire inspection report
- ··· Maintenance manuals
- Maintenance logs
- --- Other

Governance Documents

- ---> Strata Plan
- ---> Bylaws



Examples of Provided Documents



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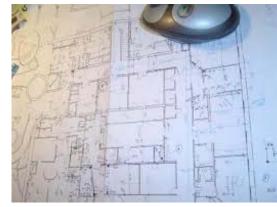
Physical Analysis

- Inventory all assets
- ---> Estimate remaining service life or major maintenance for all assets



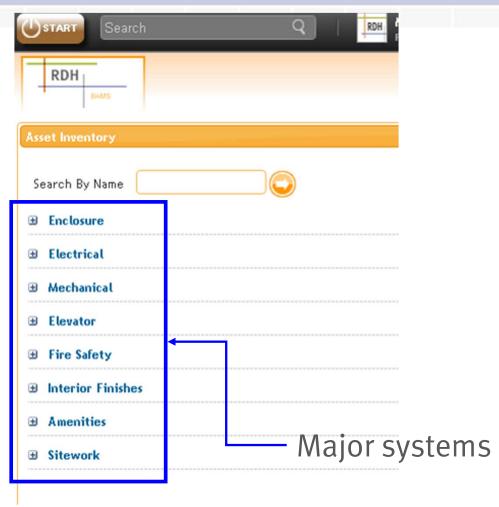






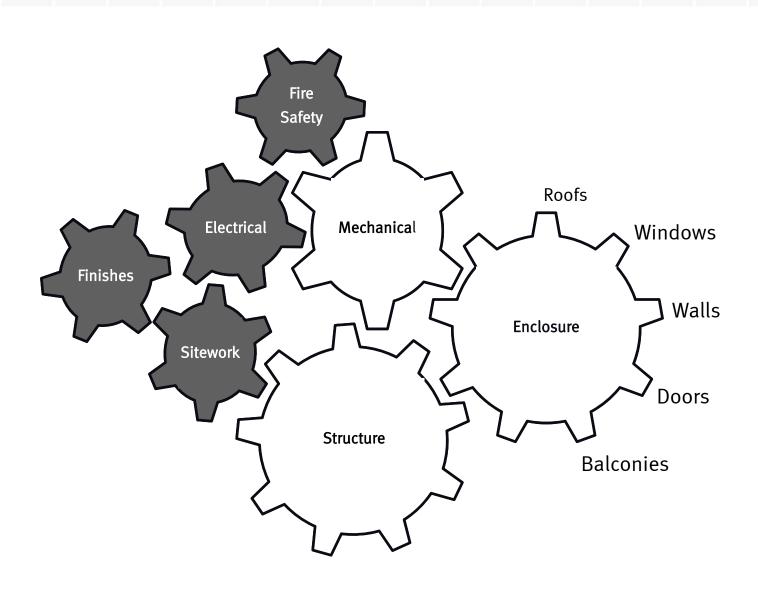


Major Building Systems





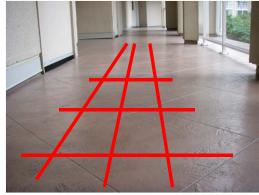
Interconnected Systems in Buildings





Samples of Building Assets





Roofs

Enterphone

Floor finishes







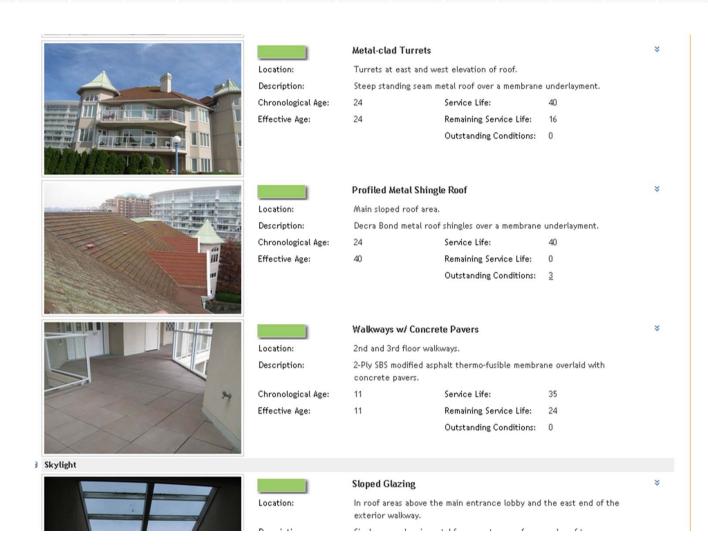
Sensors

Fire sprinkler system

Guardrails



Asset Inventory - Enclosure





Asset Inventory - Electrical



Electrical Distribution Elec 02

Location:

Main electrical room on parkade level.

Description: Commander switchgear, distribution boards, panelboards and metering

Chronological Age: 24 Service Life: 50 Effective Age: 24 Remaining Service Life:

Outstanding Conditions: 0



Exterior Light Fixtures Elec 03

Location: Mounted to walls and soffits; buried amongst the soft landcaping.

Description: A varitey of fixture types, including recessed pot lamps, wall mounted

fixtures, and landscape lighting.

Chronological Age: 14 Service Life: 20 14 Remaining Service Life: Effective Age:

Outstanding Conditions: 0



Interior Light Fixtures Elec 04

Location: Parkade, hallways, service rooms.

Description: A variety of fixture types, including incandescent and fluorescent, wall

mounted, recessed ceiling pot lights, pendant fixtures, compact

fluorescents, and strip fluorescent fixtures.

Chronological Age: Service Life: 25 Effective Age: Remaining Service Life:

Outstanding Conditions: 0

■ Security



Enterphone System Elec 05

Location: Mounted beside lobby door.

Description: Enterpone 2000 panel, control cabinet, wiring, electric door release and

ancilliary devices for security access at the primary point of pedestrian

entry the building.

Chronological Age: Service Life: 25



Asset Inventory - Mechanical

■ Controls



Parkade Gas Detection Mech 01

Location: Mounted to walls on parkade level.

CET series electronic devices for detection of dangerous carbon monoxide (CO), produced by vehicles and to activ fans accordingly.

Chronological Age: 12 Service Life: 12

Remaining Service Life: Outstanding Conditions: 0

12



Mech 02 Location:

Description:

Effective Age:

Description:

Valves & Cross Connection

Parkade level, suite interiors. Backflow preventor at carw

Various types and sizes of valves, including shut off valves, preventer, check valves and balancing valves to regulate t

water through domestic systems.

Chronological Age: Service Life: 25 Effective Age: 22 Remaining Service Life:

Outstanding Conditions: 0

■ Plumbing & Drainage



Mech 03

Plumbing Distribution

Location: Throughout the building.

Description: Type K copper risers and branch lines of various sizes, wit

and accessories for the water supply to various appliance:

components.

24 Chronological Age: Service Life: 24 Remaining Service Life: Effective Age:

Outstanding Conditions: 0



Mech 04

Plumbing Fixtures

Location: Janitors room. Description: Janitors mop sink.

Chronological Age: 25 24 Service Life: Effective Age: 22 Remaining Service Life:



Asset Inventory – Interior Finishes

∃ Floors



Finish 01

Carpet Flooring

Location: Stairwells.

Description: 30 oz. cutpile nylon tex border colour schemes,

undercushion.

Chronological Age: 11 Effective Age:



Finish 02

Tiled Flooring

Location: Lobby entrance.

Description: Ceramic tiles and grout

Chronological Age: 24

Effective Age: 20

∃ Walls



Finish 03

Interior Painting

Location: Corridors, parkade, stai Description: Primers and multiple pig

gypsum wallboard, millw

10 Chronological Age:

Effective Age:

∃ Furnishings



Finish 04

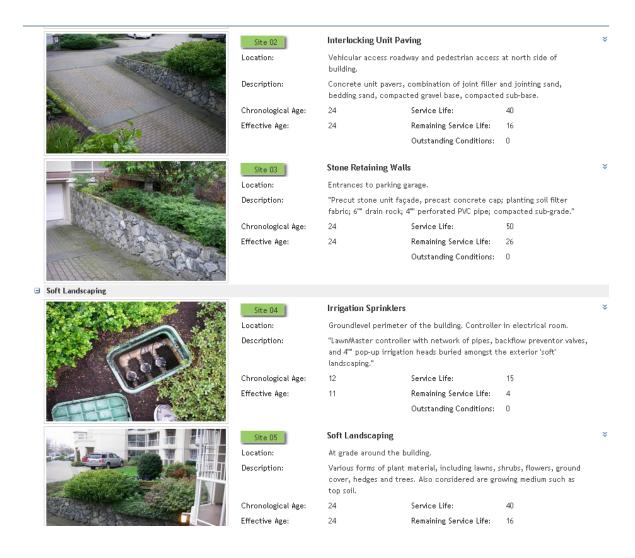
Interior Swing Doors

Location: Stainwells, service room Description:

Variety of hollow core, openings. Exterior door enclosure system.



Asset Inventory – Site Work



Maintenance & Renewal of Assets



They require periodic maintenance...

- Cleaning
- Lubricating
- Adjusting
- Inspecting



They deteriorate over time...

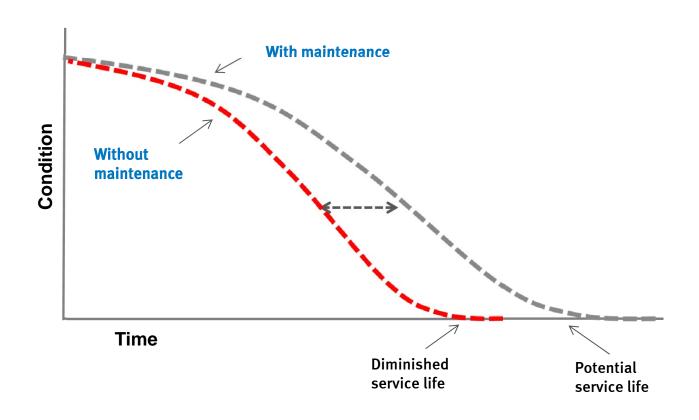
- Cracking
- Staining
- Splintering
- Corroding



They eventually need to be replaced...

- Balcony fascia improvements
- Re-roofing
- Carpet replacement
- Elevator modernization

Impact of Maintenance on the Life of Assets





Service Life, Chronological & Effective Ages



Encl 04	Profiled Metal Shing	le Roof	
Location:	Main sloped roof area		
Description:	Decra Bond metal roof shingles over a membrane underlayment.		
Chronological Age:	24	Service Life:	40
Effective Age:	39	Remaining Service Life:	1

Outstanding Conditions: 1



	Stucco Cladding - Face Seal			
Location:	Non-rehabilitated walkway suite walls and chimneys.			
Description:	Face-sealed stucco applied to protect exterior wall assemblies.			
Chronological Age:	24	Service Life:	45	
Effective Age:	13	Remaining Service Life:	32	

Outstanding Conditions: 0



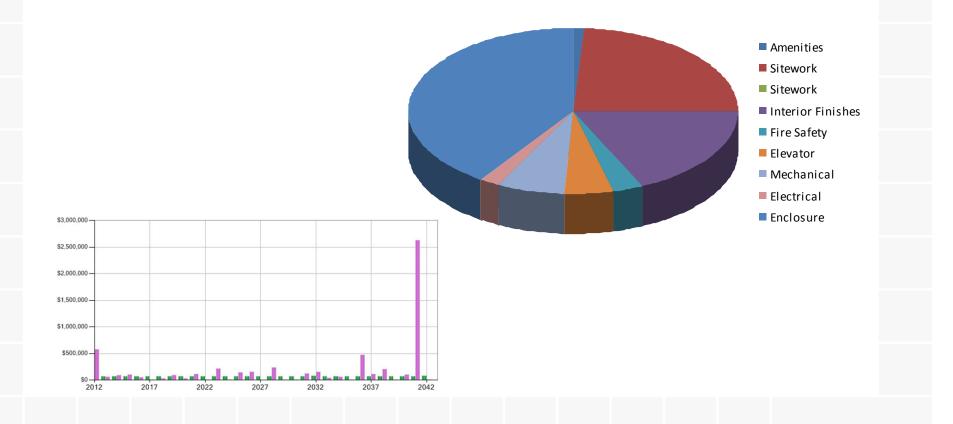
Service Life, Chronological & Effective Ages





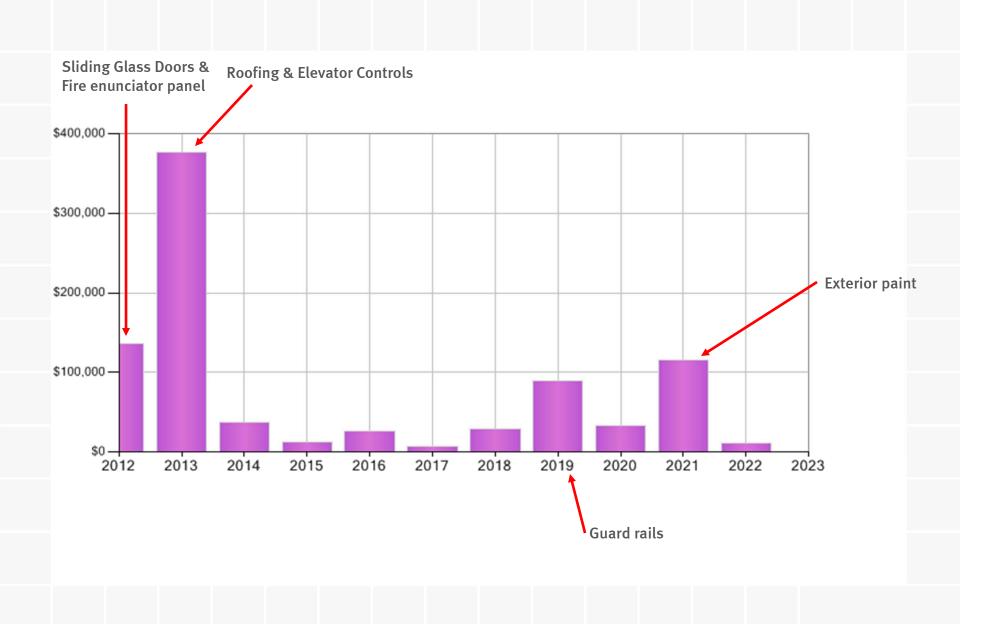
Financial Analysis

- ---> Contingency Reserve Fund
- --- Cash Flow Models



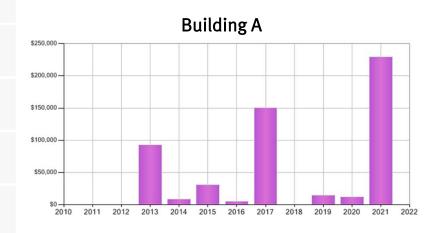


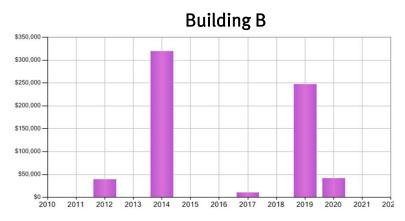
10-Year Forecast – Major Maintenance & Renewals

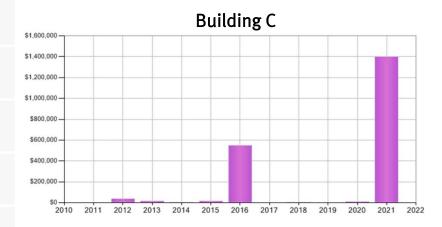


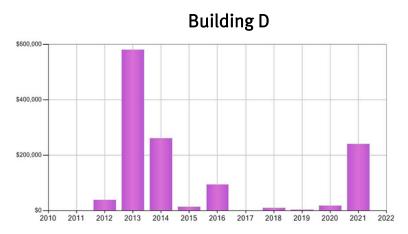


Every Building has its Own Pulse - Different Forecasts









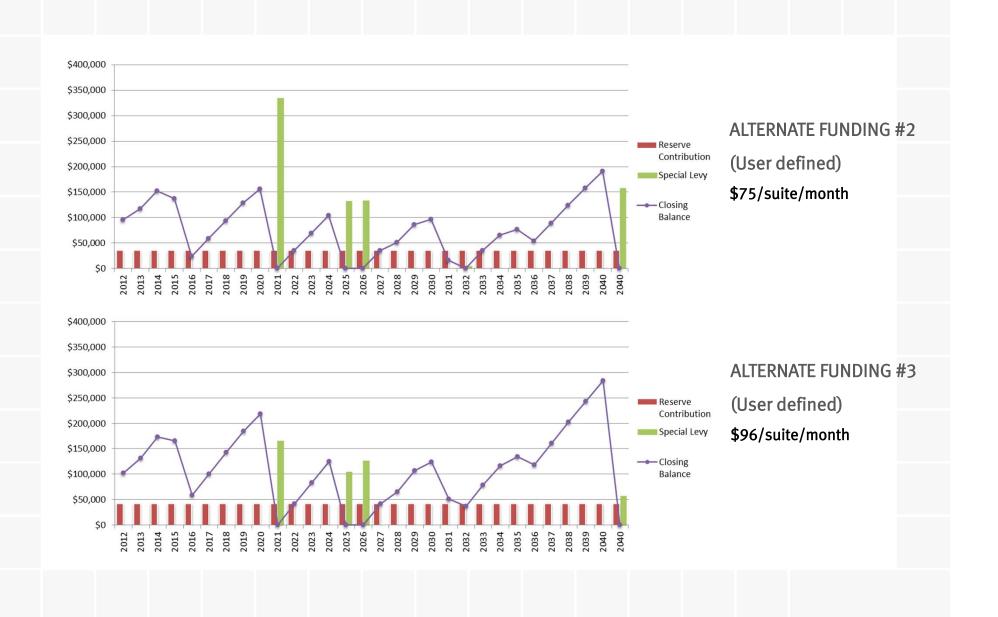


Example Building – Funding Models





Example Building – Funding Models





BAM Software – Review of Funding Models





Discussion on Legislated Minimum Funding

- --- Legislation mandates a minimum level of funding for the CRF.
 - --- Based on value of operating budget
- "> If CRF balance is less than 25% of operating budget the strata must contribute the lesser of:
 - ** 10% of operating budget value

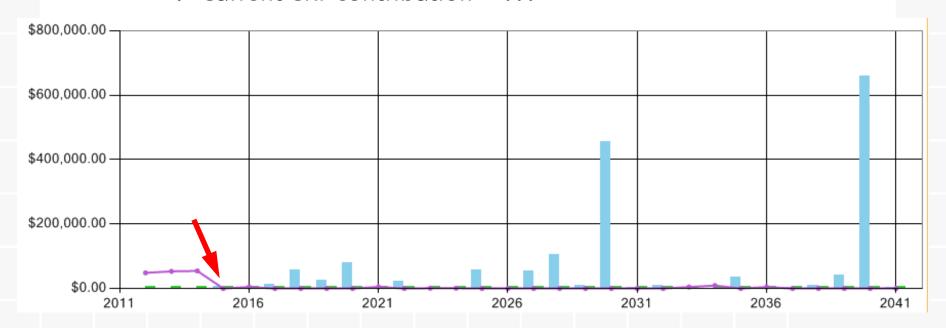
OR

Sufficient funds to raise CRF balance to 25% of operating budget



Funding Models - Discussion on Minimum Funding

- --- Operating budget = \$60,000
- --- 25% of operating budget = \$15,000
- --- 10% of operating budget = \$6,000
- ---> Current CRF contribution = ???





Other Funding Options

- Alternate monthly contributions?
- Minimum/maximum CRF balances?
- ---> Inflation of contributions?
- Phasing of projects?
- Bundling of projects?



Questions & Discussion