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1.0 OVERVIEW

The Community Safety Stations (Fire & EMS) portfolio is made up of twenty-four (24) single and two storey buildings with an average age of forty-six (46) years. The majority of the buildings have gross floor areas of less than 9,000 square feet (sf). The 2018 Building Condition Assessments (BCA's) performed by McIntosh Perry Limited (MPL) concluded that the majority of buildings share common conditional and functional deficiencies including:

- Limited site area to allow for expansion;
- Growing back log of required component repairs/replacements;
- Older building envelope components (windows, doors, sealants, roofing) that have surpassed or are approaching the end of their expected life cycle;
- Poor thermal efficiencies (building envelope and HVAC);
- Aging sanitary plumbing systems;
- Lack of direct capture exhaust systems for vehicles;
- Lack of HVAC monitoring/balancing;
- Small apparatus bays and shortage of sufficient storage areas for PPE;
- Little to no compliance to barrier-free regulations (parking, entrances, interior circulation, and washrooms);
- Little to no compliance to separate sex washrooms and locker rooms, etc.;
- Presence of designated substances (hazardous materials) in areas being renovated;
- Aging site and building infrastructure;
- Deteriorated hard landscaping components.

It is estimated at over the next ten years (2018 to 2027) that the anticipated total portfolio expenditures are in the range of \$36 million dollars which is equivalent to the 2018 replacement value estimate for these buildings (refer to Section 6.0 Table). The primary reason is that engineered renovation costs to rectify the deficiencies are typically higher than new-builds. Costs will continue to increase as years pass, presuming a status quo position, as other components outside the 10-year window become added into the capital expenditure plan.

The underlying theme of the assessments is that the buildings require substantial renovation for compliance to current standards (*Ontario Building Code, Ontario Fire Code, NFPA 1 Uniform Fire Code, NFPA 1500 Standard on Fire Department Occupational Safety and Health Program and NFPA 1581 Standard on Fire Department Infection Control Program*) as well as bringing them into a state-of-good repair over the short term. This will aid in mitigating or eliminating deterioration of the assets and providing a safe working environment for the men and women who reside at these locations.

2.0 COMPANY PROFILE

McIntosh Perry is a national multi-disciplinary engineering and related professional services firm. We employ over 600 full time professional and technical staff members, operating throughout Ontario, Quebec, Alberta, and British Columbia. Our company assists projects from the conceptual design stage through to administration of construction contracts. Our work in civil engineering, administration and inspection services has earned us a reputation as a company with the ability to get things completed in a cost-effective and timely manner.

In October 2016, McIntosh Perry merged with CCI Group (CCIG, Kleinfeldt Consultants), a consulting engineering firm specializing in building science, structural engineering, and geotechnical engineering. In April 2017, OEL Projects Ltd., an Alberta based engineering firm that primarily provides services to the oil and gas industry, joined McIntosh Perry.

John Kirkpatrick heads the Corporate Projects Department with primary responsibility of leading and conducting building condition assessments and expenditure planning for large portfolio public and private sector clients. He has been in this role for thirty-four (34) years.

3.0 STATE-OF-GOOD REPAIR DEFINITION

State-of-Good Repair is defined as "A condition in which the existing physical assets, both individually and as a system, are functioning as designed within their useful life's and are sustained through regular maintenance and replacement programs." (Law Insider). In terms of buildings, this can be expanded to mean all items are in good condition and are compliant with all applicable standards, codes and guidelines and there is minimal backlog of capital repairs or replacements due. Simply stated, state-of-good repair means that the building systems and components are not extended unreasonably beyond the end of their expected life cycle, which may increase the risk of unexpected failure, service disruptions and/or liability.

4.0 COSTING

The 2018 BCA Reports prepared by MPL included a current replacement value (CRV) for each of the buildings. This was derived using the 2018 RS Means costing handbooks for the particular building type, adjusted for the City of Greater Sudbury locale. These are not appraisal values but are considered industry standard for developing replacement values. The cost per square foot (\$/sf) ranged from \$201/sf to \$330/sf. These numbers are considered rudimentary and exclude site costs. The cost of fire stations is really dependent on the space needs of the fire department, the location and condition of the site and also any needed improvements. It is not uncommon to have cost per square feet rise well over the \$330/sf threshold.

The anticipated capital expenditure costs are considered the estimated cost of replacing or providing major repairs to a component at current prices including factors such as demolition, disposal, material, labour and contractor's overhead and profit. The item excludes HST. This is the calculated dollar value (2018 dollars) to complete the described work based on quantity measurement and acceptable costs for various replacement, repair and renovation work. It is the single occurrence cost for the item and not the cumulative total over the 10-year period.

The cost basis is that work is being replaced/repaired with similar materials and not upgraded unless stated. The costs developed for this project are for renovation work as opposed to new work. When renovation occurs, additional costs are incurred for demolition and difficulty. Other times, not all components for the assembly would need repair/replacement. In these cases, reductions in cost usually are negated by other factors such as unforeseen conditions.

Costs were developed using 2018 RS Means Repair & Remodelling Cost Data, adjusted to a Sudbury index, with a 10% Design Contingency and a 20% General Contingency. In some cases, unit rates from RS Means cannot be easily applied. In this case, we have either applied allowances to cover for the repair/replacement based on our experience in similar situations or have unit rates that were derived from previous restoration projects of a similar nature, e.g. concrete repairs. Costs have been rounded up to the nearest \$1,000. These are standard industry methods for deriving probable costs for replacements or repairs.

Opinions of probable costs are only to be construed as preliminary budgets. As defined in the ASTM E-2018-01 Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process, "Opinions of probable costs should only be construed as preliminary budgets. Actual costs most probably will vary from the consultant's opinions of probable costs depending on such matters as type and design of suggested remedy, Quality of materials and installation, manufacturer and type of equipment or system selected, field conditions, whether a physical deficiency is repaired or replaced in whole, phasing of work (if applicable), quality of contractor, quality of project management exercised, market conditions and whether competitive pricing is solicited, etc."

All probable cost estimates provided are based on the American Society of Testing and Materials (ASTM) Standard E-2516 for Class 5 type and are not to be considered quotations. This is a high level estimate based on a conceptual design or replacing like with like with no upgrades. Designs and specifications are to be prepared prior to obtaining quotations for most work.

Class	Description	Purpose	Method	Level of Project Definition	Expected Estimate Accuracy
5	Indicative/ Conceptual	Screening/ Feasibility	Historical Info/ Judgment	0% - 2%	-30% - +50%
4	Feasibility/ OOM	Concept Study or Feasibility	Parametric Ratios	1% - 15%	-20% - +30%
3	Preliminary	Budget Authorization/ Control -NB*	Equipment/ Factored/ Semi-detailed	10% - 40%	-15% - +20%
2	Definitive	Control or Bid/ Tender	Detail - Quantity Based	30% - 70%	-10% - +15%
1	Pre-tender	Check Estimate/ Bid - NB*	Detail - Quantity & Full Spec Based	50% - 100%	-5% - +10%

5.0 BUILDING CONDITION ASSESSMENT PROCESS

The building condition assessment process generally follows ASTM E-2018-01 Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process. In summary, this includes:

Review of Historical Documentation – request and review all available documentation including construction, as-built, and renovation drawings, past BCAs, roof reports, designated substance surveys/asbestos surveys, etc.

Questionnaire – requested prior to the site visits for each facility to document past work, current concerns, and upcoming work.

Site Visit – Walk-through of all accessible building and sites areas, look above ceiling tiles and behind access panels and hatched in random locations, assess roofs where accessible by roof hatch or ladder or assess from grade, record measurements of handrails, guards, door widths, washroom accessories, photograph all accessible components, record model and serial numbers of equipment.

Analysis – All data (quantity, year installed, description, etc.) is entered into the spreadsheet template and summarized in the front end report. All components are rated as good, fair, poor or very poor (as defined below) based on their visual condition, observed or reported defects, and estimated life. Estimating the age (in years) of the building element, from date of installation or date of major repair, if it is known from data plates or work orders. In most instances the actual age of a repair or the date of installation is unknown due to the change in process of paper based archived storage versus computerized work tracking methods, and a reasonable age estimate has been provided by MPL.

Good Condition	Minor defects, superficial wear and tear, some deterioration to finishes, major maintenance not required, and not requiring capital expenditure.			
Fair Condition	Average condition, significant defects are evident, worn finishes require maintenance, services are functional but need attention, likely to become "poor" within a few years if not addressed.			
Poor Condition	Badly deteriorated, potential structural problems, inferior appearance, major defects, components fail frequently, observable deterioration requiring capital repair and the component failing			
Very Poor Condition	Building or component has failed, not operational, not viable, and unfit for occupancy or normal use, environmental/contamination/pollution issues exist.			

All capital requirements are given Priority Ranking as defined by the City of Greater Sudbury:

Must (10)	Fire Safety, Life, OHS, address dangerous situations.				
Critical (9)	Legislated, health and welfare.				
Urgent (8)	Items that threaten the operation of the facility/shutdown, loss of service, etc.				
Essential (7)	Projects that are not urgent but cannot be postponed due to building integrity.				
Necessary (6)	Barrier free access related items and commitments from previous years as warranted as public need.				
Highly Desirable (5)	Energy conservation, projects for external funding is available.				
Strategic (4)	Items that have worn out, are of high maintenance cost and requires replacement to prevent costly further repair.				
Enhancement (3)	Modification, addition, renovation to improve operational needs of facility.				
Aesthetic (2)	Items that are an aesthetic nature (painting, landscaping, asphalt).				
Deferrable (1)	Items that are in working order but have surpassed their useful life expectancy. Projects that can be postponed with detriment effect to present operation.				

6.0 BCA SUMMARY TABLE

BUILDING CONDITION ASSESSMENT SUMMARY						
	Year Constructed	Age	Square Feet	Estimated Replacement Cost	Estimated 10 Year Capital	
Location				(2018)	Requirements	
Capreol EMS Station	1958	62	7,487	\$1,978,000	\$1,286,574	
Van Horne	1975	45	18,000	\$4,600,000	\$4,755,400	
Minnow Lake	1981	39	5,862	\$1,610,000	\$1,471,990	
New Sudbury (Leon Street)	1974	46	5,000	\$1,351,250	\$1,578,210	
Long Lake	1976	44	6,762	\$2,029,750	\$1,569,750	
Copper Cliff	1973	47	3,511	\$845,250	\$1,346,899	
Waters/Black Lake	1969	51	6,970	\$1,725,000	\$1,560,553	
Lively	1953	67	2,065	\$506,000	\$840,593	
Whitefish	1965	55	6,332	\$1,512,250	\$1,613,950	
Beaver Lake	1977	43	2,768	\$690,000	\$1,376,700	
Azilda (LEL)	2006	14	11,486	\$2,875,000	\$983,870	
Chelmsford	1970	50	13,651	\$3,243,000	\$1,631,890	
Dowling	1965	55	4,992	\$1,265,000	\$1,350,668	
Vermillion	1974	46	1,331	\$362,250	\$819,910	
Levack	1971	49	3,740	\$951,050	\$1,156,691	
Val Caron	1985	35	4,092	\$1,035,000	\$974,805	
Val Therese	1993	27	8,480	\$1,960,750	\$1,439,458	
Hanmer	1958	62	3,036	\$805,000	\$1,511,511	
Capreol	1983	37	10,495	\$2,426,500	\$1,882,920	
Garson	1955	65	6,400	\$1,776,750	\$1,709,923	
Falconbridge	1977	43	2,200	\$586,500	\$1,168,850	
Skead	1979	41	2,255	\$598,000	\$1,150,240	
Coniston	1985	35	2,000	\$546,250	\$1,165,528	
Wahnapitae	1974	46	2,008	\$546,250	\$1,192,126	
TOTAL				\$35,824,800	\$35,539,009	