Facility Condition Assessment Summary Report

This report provides a summary of the Facility Condition Index (FCI) value of a school facility and select major building systems. The FCI calculation represents the cost of needed repairs divided by the replacement value. The FCI is a numerical value of condition and helps to identify the need for renewal or replacement of specific parts of the facility. The FCI is particularly useful when comparing similar facilities within the same portfolio.

Finletter School

Governance DISTRICT Report Type Elementarymiddle

 Address
 6100 N. Front St.
 Enrollment
 749

 Philadelphia, Pa 19120
 Grade Range
 '00-08'

Phone/Fax 215-276-5265 / 215-276-5285 Admissions Category Neighborhood

Website Www.Philasd.Org/Schools/Finletter Turnaround Model N/A

Building/System FCI Tiers

Facilit				
< 15%	15 to 25%	25 to 45%	45 to 60%	> 60%
		Buildings		
Minimal Current Capital Funding Required	Refurbish Systems in building	Replace Systems in building.	Building should be considered for major renovation.	Building should be considered for closing/replacement.
		Systems		
Perform routine maintenance on system	System requires minor repairs	System should be studied to determine repair vs. replacement.	System is nearing end of its life expectancy and should be considered for replacement	System should be replaced as part of the Capital Program

Building and Grounds

	FCI	Repair Costs	Replacement Cost
Overall	38.25%	\$18,341,026	\$47,953,290
Building	54.67 %	\$17,213,080	\$31,484,979
Grounds	10.01 %	\$256,996	\$2,566,176

Major Building Systems

Duilding Contains	Custom FCI	Damain Casta	Danis sament Cost
Building System	System FCI	Repair Costs	Replacement Cost
Roof (Shows physical condition of roof)	23.70 %	\$187,586	\$791,412
Exterior Walls (Shows condition of the structural condition of the exterior facade)	09.93 %	\$230,062	\$2,316,472
Windows (Shows functionality of exterior windows)	159.49 %	\$1,802,775	\$1,130,308
Exterior Doors (Shows condition of exterior doors)	142.35 %	\$129,537	\$91,002
Interior Doors (Classroom doors)	171.14 %	\$377,002	\$220,288
Interior Walls (Paint and Finishes)	11.03 %	\$109,625	\$994,119
Plumbing Fixtures	07.87 %	\$66,795	\$848,515
Boilers	89.62 %	\$1,050,122	\$1,171,729
Chillers/Cooling Towers	162.38 %	\$2,494,726	\$1,536,365
Radiators/Unit Ventilators/HVAC	98.29 %	\$2,652,016	\$2,698,052
Heating/Cooling Controls	189.90 %	\$1,608,907	\$847,260
Electrical Service and Distribution	111.56 %	\$679,157	\$608,772
Lighting	52.76 %	\$1,148,324	\$2,176,517
Communications and Security (Cameras, Pa System and Fire Alarm)	68.82 %	\$561,084	\$815,252
Communications and Security (Cameras, Pa System and Pire Alarm)	00.02 /0	9301,004	7013,232

Facility Condition Assessment Summary Report

This report provides a summary of the Facility Condition Index (FCI) value of a school facility and select major building systems. The FCI calculation represents the cost of needed repairs divided by the replacement value. The FCI is a numerical value of condition and helps to identify the need for renewal or replacement of specific parts of the facility. The FCI is particularly useful when comparing similar facilities within the same portfolio.

Finletter LSH School

Governance DISTRICT Report Type Elementarymiddle

Address 6100 N. Front St. Enrollment

Philadelphia, Pa 19120 Grade Range '00-08'

Phone/Fax 215-276-5265 / 215-276-5285 Admissions Category Neighborhood

Website Www.Philasd.Org/Schools/Finletter Turnaround Model N/A

Building/System FCI Tiers

Facilit	y Condition Index (FCI)	_ Cost of Assess	sed Deficiencies	
raciiit	y condition index (FCI)	Replacer	nent Value	
< 15%	15 to 25%	25 to 45%	45 to 60%	> 60%
		Buildings		
Minimal Current Capital Funding Required	Refurbish Systems in building	Replace Systems in building.	Building should be considered for major renovation.	Building should be considered for closing/replacement.
		Systems		
Perform routine maintenance on system	System requires minor repairs	System should be studied to determine repair vs. replacement.	System is nearing end of its life expectancy and should be considered for replacement	System should be replaced as part of the Capital Program

Building and Grounds

	FCI	Repair Costs	Replacement Cost
Overall	38.25%	\$18,341,026	\$47,953,290
Building	06.26 %	\$870,951	\$13,902,135
Grounds	10.01 %	\$256,996	\$2,566,176

Major Building Systems

Building System	System FCI	Repair Costs	Replacement Cost
Roof (Shows physical condition of roof)	00.00 %	\$0	\$934,787
Exterior Walls (Shows condition of the structural condition of the exterior facade)	02.27 %	\$16,648	\$734,388
Windows (Shows functionality of exterior windows)	16.76 %	\$53,727	\$320,618
Exterior Doors (Shows condition of exterior doors)	10.64 %	\$4,181	\$39,283
Interior Doors (Classroom doors)	05.19 %	\$4,589	\$88,446
Interior Walls (Paint and Finishes)	00.00 %	\$0	\$395,421
Plumbing Fixtures	00.00 %	\$0	\$742,856
Boilers	00.00 %	\$0	\$439,174
Chillers/Cooling Towers	08.54 %	\$49,157	\$575,843
Radiators/Unit Ventilators/HVAC	00.00 %	\$0	\$1,011,254
Heating/Cooling Controls	132.68 %	\$421,330	\$317,561
Electrical Service and Distribution	00.00 %	\$0	\$228,173
Lighting	02.02 %	\$16,476	\$815,778
Communications and Security (Cameras, Pa System and Fire Alarm)	93.15 %	\$284,621	\$305,564

School District of Philadelphia

S727001;Finletter

Final
Site Assessment Report
January 31, 2017



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Site Executive Summary

The organization of this report, as displayed in the Table of Contents, follows the structure of the associated eCOMET database. The overall node for each school campus begins with the letter "S", which indicates the "Site" label. Each Site is comprised of separate "Building" and "Grounds" nodes; their asset names begin with the letters "B" and "G" respectively. Information rolls up to the Site node from the Building and Grounds nodes. This Site report combines facility information with subsections for the Buildings And Grounds nodes.

The basis for the evaluation of condition is the functional systems and elements of a building and grounds organized according to the UNIFORMAT II Elemental Classification. The grouping of these systems and elements and applying a current replacement value to them develops a representative building cost model. Cost Models are typically developed for similar building types and functions. Evaluation of systems and their elements takes into account their current replacement values, life cycles, installation dates and next renewal dates. Systems and their elements that are within their useful lives are further evaluated to identify current deficient conditions that may have a significant impact on a system's or element's remaining service life, and to determine if they are beyond their predicted expected life. The system's or element's current replacement value is based on RS Means Commercial Cost Data.

Following are the cost model's system details for this facility. The Replacement Value is the amount needed to replace the property of the same present value. The Current Repair Amount, also known as Condition Needs, represents the budgeted contractor installed costs plus owner's soft costs for the repair, replacement or renewal for a component or system level deficiency. It excludes contributing costs for other components or systems that might also be associated with the corrective actions due to packaging the work. Facility Condition Index (FCI) is an industry-standard measurement calculated as the ratio of the repair costs to correct a facility's deficiencies to the facility's Current Replacement Value. Condition Index (CI) for a system is calculated as the sum of a the deficiencies divided by the sum of a system's Replacement Value (both values include soft-cost) expressed as a percentage ranging from 0% 100%.

62,760

Year Built:	1931
Last Renovation:	1999
Replacement Value:	\$47,953,290
Repair Cost:	\$18,341,026.42
Total FCI:	38.25 %





Description:

Gross Area (SF):

Facility Condition Assessment July 2015

School District of Philadelphia Thomas K. Finletter School 6101 N. Front Street Philadelphia, PA 19120

62,760 SF / 676 Students / LN 07

Finletter Little School House 6101 N. Front Street Philadelphia, PA 19120

23,523sf / 239 students / LN 07

General

Thomas K. Finletter School (main building) and Little School House are located at 6101 North Front Street. The front entrance of the main (original) building faces North Front Street; the main entrance of the Little School House faces East Godfrey Avenue. The main building was constructed in 1930, has 62,760 square feet, and is 3 stories tall with a full basement. The Little School House was constructed in 1997 and has 23,523 square feet and is a one story building. There is also a precast concrete panel "Portable Building" located on the site (not included in this condition assessment). Augustus Smith ("Smitty"), the Building Engineer accompanied the team during the building inspection.

Architectural/Structural

Foundations appear to be constructed of concrete and brick. Joints are generally in good condition with the exception of one area of wall having horizontal cracks in the concrete foundation, located in the boiler room. The crack is roughly 50ft in length extending through adjacent pilasters and is cause for some concern. The horizontal cracking needs structural repairs as soon as possible, to minimize further cracking and damage with loss of bearing capacity of the wall. There is also some stepped cracking of internal concrete block walls in the area of the horizontal wall cracking. Extensive peeling paint was observed on basement walls and ceilings, mainly due to high room moisture related to excessive steam released by the boilers and a lack of general maintenance of the space. Footings were not seen and their construction type or condition could not be ascertained. There is evidence of rusting on the steel lintels above most basement windows with some localized joint cracking extending beyond the lintels which can be seen from inside the basement and outside the building. Cracks of this nature can be sources of water infiltration from outside into the basement. The Little School House foundation and footings could not be seen, however no evidence of settlement was observed at grade in the boiler room where the top of the foundation was observed. Although not part of this condition assessment, the foundation supporting the "Portable Building" is cracking at one corner location; this could prove to be a serious problem if not repaired. Vertical and horizontal cracks extend completely across the corner foundation pilaster; it should be reconstructed to minimize future damage.

Floor slabs in the basement are in good condition although covered with dirt and in need of stripping, cleaning and repainting. Upper floor slabs in the main building are also constructed of cast-in-place concrete with cast-in-place concrete beams supporting the slabs. Cracking and spalling of the concrete structure was not observed.

Roof construction over the main building is reinforced concrete beams and deck, bearing on masonry walls. The superstructure is constructed of reinforced concrete columns, beams, and floor slabs. The main building roof deck is flat with minimum overall slope; areas around roof drains are depressed for drainage. Roof access in the main building is via a door out of a masonry penthouse; a steep, narrow, dark stairway with very low headroom up from a 3rd floor stairway landing leading to a narrow, suspended wood board walkway provides access to the roof penthouse. The roof over the auditorium is constructed of heavy timber trusses with wood decking. What could be seen appeared to be in good condition as observed in the attic space. There is no roof access to the roof of the Little School House. To access that roof, an extension ladder is required, however the roof deck could be observed from the upper windows of the main building and appeared to be in good condition.

Exterior walls and penthouse structures in the main building are generally in good condition, however the lintels above most basement windows, some upper windows, and some doors are rusted with brick joint cracks extending from the lintels into the brick joints in the walls; some cracks above upper windows on the rear wall are extensive and need repair soon. Lintels should be replaced when windows are replaced. The exterior above-grade foundation wall of the main building is painted brown in some areas and reddish brown in others; the reddish brown areas need to be repainted to match the brown walls. Many brick roof-structure walls and parapets have been repointed or caulked (not a good solution) and continue to show signs of cracking and joint failure. Terra cotta coping joints are beginning to fail and should be re-grouted to maintain a water tight condition. A more detailed inspection of the main building masonry is required to repair all failing joints and ensure a watertight envelope. Masonry on the Little School House is generally in good condition with the exception of the tan brick corner, tan brick column, and the yellow brick column at the building entrance on E. Godfrey Ave. where joint cracking is evident.

Exterior windows in the main building were replaced in the 1980's with bronze anodized, aluminum frame, operable, single hung units with single thickness clear plexiglass acrylic vision panel glazing. Windows are in poor condition with oxidized frames and severely scratched single-pane plexiglass. Operable units are difficult to operate up and down or do not stay open due to broken internal counterbalance weights, accidentally slamming closed in some cases – a potential safety hazard. Single pane plexiglas units do not meet today's energy code requirements and are large sources of heat loss. Basement level windows are at grade when viewed from the outside; galvanized steel security screens attached to basement windows, the lower section of 1st floor windows, and the auditorium windows are in good condition. Windows in the Little School House (LSH) are factory painted aluminum tube frame units with insulated glass. This is one of the few if not the only LSH with glass (not plexiglass) windows; consequently, windows are still clear and in good condition. Security screens attached to the outside of the windows have factory painted frames, however they are

severely faded and have been victims of graffiti. The screens are in need of replacing.

Exterior doors on the main building are painted steel flush hollow metal units with steel frames. The main entrance and secondary main entrance on Front Street have decorative Romanesque-style tile arches around door openings. The masonry surrounding the Front Street doorways should be cleaned to highlight their style and artistic technique. Some doors have small glazing vision panels with steel security mesh. Door panels and frames are in need of refinishing to remove dents, rust, and layers of paint; they should then receive fresh coats of paint. Door hardware is generally poor condition; panic hardware and locks are broken or not functioning, and hardware is not ADA compliant. There are no handicap entrances, and no accessible ramps. All exterior hardware systems and exterior doors need to be replaced. Little School House doors and frames are painted steel. They are all severely oxidized, slightly dented, and need to be repainted; some hardware is in need of adjustment but in general appears to be functioning properly.

Roof covering on the main building flat roof is a ceramic granule impregnated, fully adhered rolled asphalt sheet system. Brick rooftop structures, brick parapets, and most ventilation fan structures are flashed with the asphalt-backed roofing membrane as flashing with copper counterflashing. The roof membrane is in fair condition with dried cracked asphalt seen along membrane joints. The membrane, flashing, and counterflashing embedded in brickwork covering the top of the flashing is weathered and is probably past its normal service life of 20 years. Roof openings include toilet room vents, ventilation ductwork, and roof drains. Flashing of the penetrations and rooftop brick structures appears to be in fair condition and also past its normal service life; although no leaks were reported at this time, there have been leaks into classrooms which would originate either from the roof, terra cotta coping, or from the windows. Glazed terracotta coping joints may have been repaired at one time, but appear to be cracking open in a number of locations, possibly allowing water to penetrate down into the walls below. Many joint cracks in the penthouse and chimney structures have been repointed and could be the source of water infiltration. New cracks are forming in various locations including the chimney. Copper counter flashing on brick rooftop structures and parapets have been repaired with excessive amounts of caulking which is now weathered, cracking, and the potential sources of future leaks. The auditorium is covered with a "residential-type, 3-tab" asphalt roofing shingles sloping to pitched metal troughs on the three low sides of the roof. Leaks along the low flat roof intersection to the main building corridor have created large water-damaged/effloresced areas in plaster walls and ceilings in backstage rooms and have been reportedly repaired. Troughs forming gutters along both eaves have been recently recaulked as they have been previous sources of leaks, but may be sources of new leaks, evident above windows and doors. The Little School House Roof is covered with a heavy, "dimensional", two-color, asphalt roofing shingle system. Gutters are painted aluminum integrated into the edge of the roof. Roofing shingles and gutters appear to be in good condition although almost 20 years old. Heavier roofing shingles of this type could last longer than 20 years. The three clerestories and the entrance canopy roof on the LSH are covered with a blue standing seam metal roof system and blue metal siding. The paint is in good condition, however one of the clerestories has been defaced with graffiti and painted over with a non-matching paint, hurting the appearance of the clerestory. Although not part of this condition assessment, the roof membrane of the Portable Building recently had serious leaks causing water damage inside and although it has been said to have been repaired, leaks still seem to persist.

Partitions in basements are mostly constructed of brick masonry. The upper 3 floors of the building have plaster on wood lath or masonry partitions. There are wood framed clerestory glass panels located in walls above classroom doors in the corridors. These panels are in generally good condition being above the reach of anyone, but the glass is not wired or fire rated. Between some classrooms are manually operated full height wood folding partions which are not used and provide little sound insulation between classrooms. Corridors in floors one through 3 have marble panel wainscot, providing good damage resistance and long durability.

Interior doors are either the original wood and plate glass (not fire rated or wired) raised panel doors with original hardware, or replacement wood doors with narrow lite wired glass vision panels and replacement hardware at least 20 years of age. Most wood doors regardless of age or type are damaged, have broken glass or broken hardware. Some interior basement doors and most interior stairway doors are hollow metal in hollow metal frames; most steel frames are rusted where coming in contact with floors. Doors are generally in poor condition throughout the building, are not ADA compliant, do not have ADA or proper locking hardware, and are not fire rated where required. Stairway doors do not positively latch as required of fire rated doors. Classroom doors do not have security locking feature from inside classrooms. Auditorium doors are raised panel wood doors that are probably original; these doors could be refinished with new hardware installed. All interior doors opening into corridors and the hardware attached to the doors need to be replaced.

Interior fittings/hardware include black slate chalkboards with oak chalk trays or bulletin boards either integral to the original dark oak folding wall partitions built into the folding panels or mounted on plaster walls. These folding wall panels are no longer opened as they are heavy and most hinges and bearings are not operable. These wall panels need to be replaced with sturdier, safer, fixed partitions. Toilet room partitions in the main building are solid plastic partitions which replaced the original partitions; most are in good condition. Toilet room accessories (toilet paper dispensers, soap, paper towel or dryers, grab bars, door latches) have been recently replaced. The Little School House toilet rooms have solid plastic floor mounted partitions and most of the required toilet room accessories; sinks areas have less space than required for full ADA compliance. These toilet rooms have been well maintained and are in good condition.

Site Assessment Report - S727001; Finletter

Stair construction in the main building consists of concrete treads, risers, and stringers with wood handrails (29" high), guards (36" high), and steel ballusters with 3" spacing. Since handrail and guard heights are not in compliance with today's codes, new handrail and guard systems are required.

Wall finishes in the old building are plaster which is cracked with surface crazing in a number of classroom and corridor locations. There is damage in most classrooms at doorways and corners. There are also many areas of water damage on upper floor plaster walls due to water penetration from coping leaks, roof leaks, or lintel leaks. Moveable partitions between some classrooms are the original dark stained oak; these partitions are heavy and no longer opened and have instead been used as tackboards and as fixed surfaces. Thus, the folding wood panels are covered with staples and small gouges. Blackboards are embedded into the wood panels but are not always used; some classrooms have smartboards which connect to the teacher's laptop computers, used for teaching in lieu of blackboards. Corridors have 48" high marble panel wainscots that are generally in good condition with isolated cracks or damages requiring repair. Stained wood trim in all rooms is damaged and worn requiring filling and refinishing. Toilet room walls on upper floors are painted plaster; most have marble wainscots. Toilet room walls in the basement are painted brick. The auditorium has a paneled wood wainscot that is worn and damaged in need of repair and refinishing. The queuing area outside the auditorium has marble columns, marble wainscot, and plaster walls with decorative plaster capitals on square marble covered columns. These historical marble and plaster decorative elements can be revitalized with some repair and new paint. There are a number of plaster wall and ceiling areas in the auditorium that have been damaged from water entering the building through the roof or steel lintels. Assuming these leaks have been addressed after roof, gutter, and lintel repairs, the plaster should be repaired. Wall finishes in the LSH consists of painted block in classrooms, corridors, toilet rooms, offices, and multi-purpose room. A small number of separation walls in classrooms are gypsum board and metal stud. All walls are in good condition with some areas requiring some paint touch-up.

Floor finishes in the original building mostly consist of dark stained oak floors in classrooms, offices, and the auditorium. Most are in good enough condition to be stripped to remove the years of built-up dirt and varnish, sanded, and refinished. There are some rooms (main office, nurse, and faculty lounge) with 12"x12" vinyl composition tile (VCT) over the original wood floors. The gymnasium which also serves as the cafeteria is finished in VCT. All 12"x12" VCT floors in the building are worn and need to be removed and replaced. Stair landing surfaces are finished in exposed concrete that have years of dirt ground into and waxed into the surfaces; stair treads and risers are painted. Stairs should be stripped, cleaned and resealed or repainted. All corridor floors are finished with 4'x4' (nominal size) concrete tiles which appear to be a highly durable monolithic system. Edges along the walls are painted; These corridor floors have not recently been stripped and cleaned and have years of dirt sealed into the surface and corners, causing their color to be very dark and dingy. There is an especially large build-up of dirt at all corners. All toilet rooms have sealed/waxed concrete as the floor finish; like the corridors there are years of sealed in dirt and grime which needs to be stripped away before resealing the floor. The room in the basement originally designated as the cafeteria is now a food prep area finished with VCT.

Basement ceilings and all toilet room ceilings are exposed painted concrete deck above, with suspended lighting fixtures. Almost all other spaces throughout the original building have 2x4 suspended acoustical tile ceiling with either recessed or surface mounted fluorescent lighting fixtures. Ceilings and lighting fixtures are old, discolored and damaged and need to be replaced. The auditorium has a plaster ceiling with incandescent suspended lighting fixtures that appear to be original. The plaster ceiling has water damages that should be repaired to bring the decorative ceiling back to life.

Furnishings in the building include the original folding wood seating in the auditorium which is still in use. Some of the seats (approx. 25%) need to be repaired to operate properly and many are scratched; at least 75% have surface damages. Repair of the seats and complete refinishing is recommended if parts can be obtained to restore the operation; otherwise, full replacement is required. Casework and storage cabinets in the classrooms and the office is damaged, worn and needs replacement.

Mechanical

Plumbing Fixtures - Many of the original plumbing fixtures remain in service, while some appear to have been replaced or upgraded in the 1970s. Fixtures in the restrooms on each floor consist of wall mounted or floor mounted water closets, wall hung urinals, and lavatories with wheel handle faucets. It is recommended to replace all water closets, urinals, and lavatories throughout the building. For the Little School House, all fixtures appear to be original, are in satisfactory condition, and should not need replacement within the next 10 years.

Drinking fountains in the corridors and at the restrooms are wall hung with some having integral refrigerated coolers. Most appear to be the original installed equipment. Replacement of all drinking fountains in the Main building is recommended. The Little School House has the original, wall hung drinking fountains and are in satisfactory condition. They should not need replacement in the next 10 years.

A service sink is available in the basement for use by the janitorial staff and appears to be the original equipment. The Cafeteria has one three compartment stainless steel sink with lever operated faucets and appropriate chemicals. The three compartment sink drains

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through a grease trap. The Little School House has the appropriate stainless steel sink with sanitizing basins and grease trap. There is a grease hood installed but is not currently in use.

The plumbing fixtures throughout the main building are beyond their serviceable life and should all be replaced, with exception of the stainless steel sink. The Little School House needs only a fire suppression system for the grease hood.

Domestic Water Distribution - Domestic water distribution piping is soldered copper. Water service enters the building in the basement, with backflow preventers (RPZA – reduced pressure zone assembly) and the water meter on the main line after entering the building. The distribution piping is leaking has been repaired in various places. An inspection of the domestic water distribution system is recommended. The Little School House water domestic water distribution is soldered copper. Water service enters the building in the mechanical room with the water meter and backflow preventers. The distribution piping in the Little School House appears to be in satisfactory condition and should not need service or replacement within the next 10 years.

One Bradford White natural gas fired vertical water heater tank is installed in the basement with appropriate piping, controls, and venting. The water heater in the main building appears to be 10-15 years old and should be replaced within the next 10 years. The Little School House has two PVI vertical gas fired water heaters. The water heaters in the Little School House appear to be original, making them almost 20 years old. Replace the water heaters in the main building and in the LSH.

Sanitary Waste - The sanitary waste piping systems are threaded cast iron. The small sewer ejector pit is located in the basement with one pump. The complete sanitary system appears to be the original installed equipment and is well beyond its serviceable life. Recommend replacement of sanitary system throughout the main building. The sanitary system in the Little School House appears to be in satisfactory condition and should not need service or replacement for the next 10 years.

Rain Water Drainage - The rain water drains from the roof are routed through mechanical chases in the building. There are no roof overflow drains. Roof overflow drains to the main building. However, the District should consider adding overflow scuppers to the building to protect the main roof from flooding. No roof access to the Little School House.

Energy Supply - Duplex fuel oil supply pumps provide the required fuel to the boilers when operating on fuel oil. The concrete fuel tank is located in the basement alongside the fuel oil pumps. The pumps appear to be beyond their serviceable life and should be replaced. Replace the concrete fuel tank with an underground tank outside the building. The Little School House primarily uses natural gas for all heat sources in the building, having the gas meter out in the mechanical yard by the chiller. There are two small No. 2 fuel oil tanks having a total capacity of approximately 500 gallons located in the mechanical room to fuel the boilers in the event of the loss of natural gas.

Heat Generating Systems - Steam is generated in the main building by two Weil McLain oil fired boilers. The boilers appear to be at the end of their serviceable life and should be replaced within the next 5 years. Hot water is generated in the Little School House by two Burnham model V1106W boilers with dual fuel Powerflame burners, each having gross output of 1069 MBH. The boilers in the Little School House appear to be in satisfactory condition and should not need replacement for the next 10 years.

Cooling Generating Systems - Chilled water is generated in the Little School House by a model 30GN-080, 80 ton Carrier air cooled chiller. This appears to be the original installed equipment and is functioning properly. The equipment operates off of R-22 refrigerant which is being phased out and will not be manufactured after 2020. Switching the unit over to a new refrigerant or replacing with a new air cooled chiller is recommended.

Distribution Systems - The boiler feed water is treated with a combination of chemicals, controlled with a Master water treatment controller. There is a condensate return tank with duplex pumps returning condensate to the boilers. Moisture issues are apparent throughout the basement as a result of the leaking steam. The steam traps are failing throughout the building. The steam and condensate return lines are only occasionally insulated and are beyond their serviceable life. The Little School House has duplex chilled water pumps and duplex hot water pumps to distribute the conditioned water to the radiators and AHUs throughout the building. The pumps and distribution systems at the Little School House appear to be in satisfactory condition and should not need replacement for the next 10 years.

Ventilation and additional heating for the main building was provided by a house fan in the basement which is operational. The air is pushed into the various rooms of the building through ducts built into the walls. The air is exhausted from other ducts built into the walls, up through the attic space, and out through roof mounted vents. Fresh air is also available through the use of operable windows throughout the building. The Little School House receives ventilation through outside air ducted in through the AHUs in the ceiling throughout the building. The ventilation in the Little School House is satisfactory and should not need replacement for the next 10 years.

Terminal & Package Units - Approximately 1/5 of the rooms in the main building have window air conditioning units. The Little School House does not have terminal or packaged units.

Controls & Instrumentation – In the main building, there are some pneumatic thermostats on the walls that are not in service. The pneumatic control valves on the radiators are not in service. Most of the heating radiators are flowing 100% flow when the steam is on. This results in an "on-off" control for the whole building, i.e. when the boilers are on, the whole building has heat. And when the boilers are off, the whole building is without heat. Add a new DDC system to the main building. The Little School House has a BMS that was originally installed in 1997. This system is not working properly and ultimately is not functional. It is recommended to integrate a new control system for both buildings and re-commissioning the system for the Little School House.

Sprinklers - There are no sprinklers in the main building, a new sprinkler system is recommended. The LSH has sprinklers throughout, with the fire water supply entering the building in the mechanical room. There is adequate pressure from the municipal water system - no fire pump is required. There is a grease hood installed in the kitchen area but is not currently in use. The grease hood requires a chemical agent fire suppression system but one is not installed. Installing fire suppression system for the grease hood in the Little School House is recommended. The existing sprinkler system appears to be in satisfactory condition and should not need replacement for the next 10 years.

Electrical

Site Electrical Service for the main building comes from medium voltage overhead lines on wooden poles along Front St. Two pole-mounted power transformers with medium voltage primary (Voltage level unknown at this time) and 120/240VAC secondary and an estimated available power of 150KVA are installed, supplying power to facility.

The service entrance to the facility consists of a disconnect switch and utility meter located in a closet in the Multipurpose Room, and a 225A service switchboard located in the Boiler Room in the basement. The switchboard is of an open bus, open switch type. This type of existing service entrance is obsolete, unsafe, does not meet current codes, and needs to be replaced.

Power distribution is achieved through corridor located lighting/receptacle panel boards. Panel boards, two on each floor, are flush mounted. It appears that panel boards and branch circuit breakers have out-lived their useful lives should be replaced. There is one 75KVA phase converter transformer for converting 240VAC to 120/208VAC and to three phase for powering the 208-volts required loads.

In general for the Main Building, there are not enough receptacles installed in the classrooms. It is recommended to have a minimum of two receptacles on each classroom wall. The computer room should have receptacles at three feet on center on each wall.

Receptacles in the LSH are not tamper-resistant type. This is in violation of the national electrical code, which states that receptacles that are subject to child access shall be of either tamper proof or GFCI type. Receptacles should be replaced.

Lighting in the Main Building is provided by fluorescent fixtures with T-12 lamps. Classrooms and corridors utilize 1x4, (2) lamp or 2x4, (4) lamp lay-in or surface mounted fixtures. Lighting levels in the gymnasium, auditorium, and boiler room do not meet IES (Illuminating Engineering Society) standards. Lighting in the LSH classrooms is provided by suspended 1x4 fluorescent lighting fixtures. Lighting in offices and corridors are provided by recessed 2x4 fluorescent lighting fixtures. All are relatively in good condition with some minor maintenance and repairs needed to some of the fixtures. The lighting fixtures in portable building are provided by 1x4 surface/pendent fluorescent lighting fixtures with T8 bulbs; fixtures are in need maintenance and repair.

Fire Alarm System in main building consists of a 120V manual fire alarm system made by Couch Company. The company has been out of business since 1985 and spare parts have not been available since 2003. The existing system does not meet current fire alarm codes and must be replaced. Fire Alarm System in LSH and portable building is inadequate and does not comply with the current codes; for example, there are no horn/strobes provided in classrooms. The fire alarm system for the both facilities should be controlled by a central control panel.

Telephone and /LAN equipment/devices in main building is located in Room 206. The air circulation in this room is not adequate and should be provided to avoid shortening the equipment life and overheating. The communication system of both LSH and temporary building (not included in this FAC) are connected to main building telephone and LAN (Local Area Networking) systems and are all working properly.

Public address / music systems are not provided in the facility. The telephone system is used for public announcements.

Intercom and paging systems in all the buildings are functional. The paging system is a one way communication system from the

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office to each classroom. Two way communications is obtained through wall mounted phones in classrooms and other areas.

Clock and Program systems in the main building, LSH and portable building are not functioning properly.

Television system is not provided in any of the buildings.

Security Systems, access control, and video surveillance systems are provided in main building, however an insufficient number of cameras provides inadequate coverage for exit doors, corridors and other critical areas. When provided, they should be connected to the Closed Circuit Television system (CCTV). This CCTV system is installed and is working properly. In the Little School House, there is inadequate video surveillance coverage and there are no motion sensors.

Emergency power systems (backup power generator) are not provided in this facility.

Uninterruptible Power System (UPS) is provided for the IT racks in the main building.

Emergency lighting system, including exit lights do not provide adequate coverage in the main building. There are insufficient numbers of emergency lights in corridors, the library, and stairways. Adequate numbers of emergency battery-pack lighting fixtures are provided in LSH corridor

Lightning Protection System is adequate on the main building. It is accomplished with air terminals mounted on the chimney, however, some repairs are needed to make the system fully operational. A study needs to be conducted to verify that the air terminals provide the proper coverage. No lightning protection is need on LSH and temporary portable building.

Grounding is present and is adequate.

Elevator is not provided in either building.

Theatrical Lighting and dimming controls in the Main Building is old and not a code compliant installation; lights are turned on and off by circuit breakers.

Site Lighting System is adequate. Exterior lighting fixtures are installed at exit doors.

Site paging system is provided and operating adequately.

Grounds

Paving from sidewalks to front doors is constructed of 4'x4' (nominal) concrete panels; roughly half are in need of replacement and although they are not all contiguous, it may be possible to replace only those that are failing. The side and rear are paved with asphalt which serves as the combined playground and parking area. The entire parking and playground area is filled with cracks. Some of the cracks are large enough that the and students could trip on some of the uneven paving. Parking and play area striping is worn and almost invisible. Clear separation of play area and parking, to provide a safe area for the children to play, is lacking. The number of required parking spaces for school staff is unknown. Repaving of the entire asphalt area is required. Restriping of parking areas and better designation of play and parking areas are required. Granite block stairways into the building are need resetting and regrouting. New handrails and guards are required at all stairs.

Wrought iron fencing is generally in good condition. There are some damaged and bent fence panels in need of replacement. Most of the fence is rusted and requires repainting. The gates providing street and pedestrian access are either missing or inoperative and require replacement.

Landscaping is in need of trimming and maintenance along Front Avenue.

RECOMMENDATIONS

Architectural

Main Bldg

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- Strip and repaint concrete foundation (basement) walls in mechanical rooms (5,000sf)
- Repair spalling concrete ceilings (landing platforms) in 2 exterior exit stairways all 3 floors (600sf)
- Clean and repaint basement floor in mechanical rooms; clean and reseal concrete floors in hallways and stairways (350x10x3 +750=11.000+5000sf=16.000sf)
- Remove and replace all lintels and cracked masonry at basement windows and grade exit doorways and rooftop structures (80)
- Repair structural crack in foundation wall -chase out concrete, patch with concrete (100ft)
- Repair structural crack in Portable Building foundation wall -chase out concrete, patch with concrete (50ft)
- Replace all exterior windows with insulated single hung units (300)3.5x8
- Replace all exterior doors with ADA and code compliant exit hardware; repaint doors and frames.(16)3x7
- Powerwash front entrance and elevation facing Front Street (6000sf)
- Repair metal gutter trough over auditorium (250lf)
- Recaulk copper flashing and repair (1000ft)
- Provide new aluminum coping on top of terra cotta coping (1500ft)
- Replace roof on portable building (1500sf)
- Repoint cracked brickwork on roof top structures and attic level windows (1500sf)
- Remove non-rated glass panels between classrooms and corridors; fill with fire rated gyp bd sys. (30 @ 6sf)
- Remove and replace all wood interior doors, frames and hardware in classrooms, closets, offices, etc. (80)
- Provide security hardware for classrooms and offices, locking from inside classroom. (50)
- Remove and replace all basement steel doors, frames, and hardware in mechanical rooms and stairways (18 3x7 doors)
- Remove folding wood partitions; replace with gypsum board and metal stud walls (9) @300sf ea =2700sf
- Provide toilet room accessories (6 sets)
- Repair water damage, cracks, and repaint all interior plaster walls (10,000sf)
- Remove and replace stairway handrails and guards and guards at auditorium entrance with code compliant systems (3) 4 story;=50x12=600lf
- Reset treads and regrout all joints between limestone block tread/risers at exterior stairs (50 treads)
- Replace handrails at reconstructed exterior stairs (100lf)
- Strip, sand, repair and refinish all wood floors in classrooms and in auditorium (7000sf x 3.5 + 6000 = 30000sf)
- Remove and replace all 12"x12" VCT floors in gymnasium and other rooms (10,000sf)
- Replace all 2x4 acoustical tile ceilings (35,000sf)
- Repair and refinish damaged folding wood auditorium chairs (400)
- Repair and refinish wood panels (wainscot) in auditorium (1000sf)
- Replace rusted rooftop security railing and railing at window wells(16x16ft + 50 x 5ft)
- Add elevator (4 stop)

Architectural

Little School House

- Repair brick posts and building corner at Godfrey St entrance (200sf)
- Replace security screens (oxidized frames) 12 4x8 screens
- Repaint exterior doors and graffiti clerestory (5) 3x7 + 100sf
- Repair cracks in VCT (250lf)
- Provide security hardware for classrooms and offices (20 sets)
- Repair Gyp bd under clerestory that had leaked (100sf)

Mechanical

Main Building

- Replace all lavatories in the building with lower flow fixtures, as the fixtures are original in the Main building.
- Replace all water closets in the building with lower flow fixtures, as the fixtures are original in the Main building.
- Replace all urinals in the building with lower flow fixtures, as the fixtures are original in the Main building.
- Replace of all drinking fountains in the Main building. These units are well beyond their service life and most are NOT
 accessible type.
- Hire a qualified contractor to perform a detailed examination of the sanitary waste piping using visual inspection and video cameras to locate and replace any damaged piping and to further quantify the extent of potential failures.
- Install new hot water heaters in the main building.
- Replace duplex fuel oil pumps and skid.
- Demolish existing fuel oil tank and install an underground fuel oil tank.

- Provide a new building automation system in the main building (BAS) with communication interface to the preferred system in use throughout the District.
- Install a fire protection sprinkler system with quick response type heads to reduce insurance costs by providing protection for the property in the main building. A fire pump may be required depending on the available city water pressure.
- Remove existing steam boilers and steam distribution system. Install hot water boilers and hot water distribution system.
- Install chiller and chilled water distribution system.
- Install unit ventilators in all classrooms. Replace the existing unit ventilators throughout the building with new units designed to provide adequate ventilation per ASHRAE Std. 62. The new units shall be equipped with hot water / chilled water coils and integral heat recovery wheels. Install steam converters in the existing boiler room with circulating pumps, distribution piping and controls to provide heating hot water for the new coils.
- Install AHUs to condition the cafeteria. Provide ventilation, heating and cooling for the Cafeteria by removing the electric convection heaters and installing a package rooftop constant volume air handling unit with distribution ductwork and registers for supply and return air.
- Install AHUs to condition the gymnasium. Provide ventilation, heating and cooling for the Auditorium by installing a package rooftop constant volume air handling unit with distribution ductwork and registers.
- Install AHUs to condition the auditorium. Provide ventilation, heating and cooling for the Auditorium by installing a package rooftop constant volume air handling unit with distribution ductwork and registers.

Little School House

- Convert the chiller over to a new refrigerant or replace with a new air cooled chiller.
- Install a new DDC system, re-commission, and provide training for maintenance personnel.
- Install chemical sprinkler system for kitchen hood

Electrical

Main Building

- Upgrade the existing electrical service entrance. Replace the existing incoming and distribution switchboard with new 1200A, 480/277, 3PH, 4 wire switchboards.
- Replace the entire distribution system with new panel boards and new feeders. Provide arc flash labels on the all panel boards. Estimated, 16 panel boards.
- Install a minimum two receptacles in each wall of classrooms. It is recommend that surface mounted raceways with two-compartment, (data and power) cavities, be installed in the computer lab room.
- Replace all lighting fixtures with new fluorescent lighting fixtures with T-5 lamps.
- Replace existing fire alarm system with a new automatic Fire Alarm System including control panel, initiated devices in corridors, air ducts, electrical and LAN rooms, library, and computer rooms. Provide notification devices in classrooms, offices, auditorium, corridors, other areas as recommended by codes.
- Replace existing master clock system.
- Provide lightning protection studies to ascertain adequacy of existing systems.
- Provide new stage lighting and controller in Auditorium.
- Provide new sound system including a freestanding 19" rack backstage with mixer per 3amplifiers, CD player, cassette player, AM-FM radio, graphic or parametric equalizer, and receivers for wireless microphone.
- Provide sufficient number of cameras on portable building exterior wall and connect them to the main building CCTV system.
 Estimated 3 each
- Replace existing receptacles with GFIC receptacles in the areas subject to child access in the portable building. Estimated 10 each.

Electrical

Little School House

- Replace existing receptacles with GFIC receptacle in the areas subject to child access. Estimated 100 each.
- Replace existing master clock system.
- Replace existing fire alarm system of the building.
- Provide sufficient number of cameras on LSH exterior wall and connect them to main building CCTV system. Estimated 3 each.

Grounds

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- Repave parking / playground with asphalt(45,000sf)Repaint damaged wrought iron fencing (500lf)
- Replace rusted rooftop security railing and railing at window wells (50lf)
- Add handicap ramp to front door (up 30") including railings
- Repave cracking concrete sidewalk panels in front of the building (300sf)

Attributes:

General Attributes:

Active: Open Bldg Lot Tm: Lot 1 / Tm 2

Status: Accepted by SDP Team: Tm 2

S727001 Site ID:

Site Condition Summary

The Table below shows the CI and FCI for each major system shown at the UNIFORMAT classification Level II. Note that Systems with lower FCIs require less investment than systems with higher FCIs.

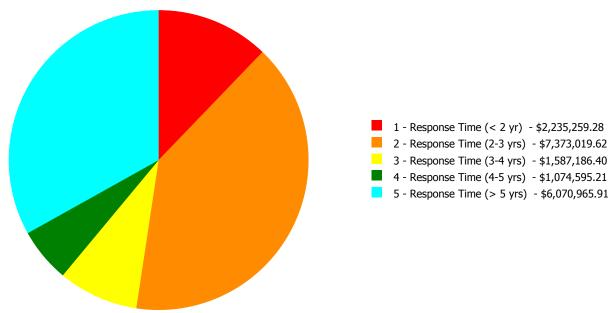
Current Investment Requirement and Condition by Uniformat Classification

UNIFORMAT Classification	RSLI%	FCI %	Current Repair
A10 - Foundations	52.09 %	0.00 %	\$0.00
A20 - Basement Construction	54.40 %	1.76 %	\$36,176.43
B10 - Superstructure	50.45 %	0.58 %	\$48,651.21
B20 - Exterior Enclosure	62.29 %	48.29 %	\$2,236,930.27
B30 - Roofing	37.31 %	10.87 %	\$187,586.45
C10 - Interior Construction	41.10 %	22.67 %	\$470,754.73
C20 - Stairs	32.01 %	172.22 %	\$204,258.15
C30 - Interior Finishes	88.66 %	26.01 %	\$1,156,456.41
D10 - Conveying	77.14 %	400.36 %	\$997,521.79
D20 - Plumbing	80.10 %	19.60 %	\$438,688.78
D30 - HVAC	102.55 %	86.23 %	\$8,276,257.73
D40 - Fire Protection	88.84 %	121.91 %	\$875,066.57
D50 - Electrical	92.60 %	58.41 %	\$2,962,400.33
E10 - Equipment	38.18 %	6.61 %	\$90,802.49
E20 - Furnishings	24.09 %	55.76 %	\$102,479.58
G20 - Site Improvements	42.07 %	12.51 %	\$256,995.50
G40 - Site Electrical Utilities	40.00 %	0.00 %	\$0.00
Totals:	70.53 %	38.25 %	\$18,341,026.42

Condition Deficiency Priority

Facility Name	Gross Area (S.F.)	FCI %	1 - Response Time (< 2 yr)	2 - Response Time (2-3 yrs)	3 - Response Time (3-4 yrs)	the state of the s	
B727001;Finletter	62,760	54.67	\$2,034,494.42	\$6,829,332.65	\$1,269,588.66	\$1,074,595.21	\$6,005,068.77
B727002;Finletter LSH	23,523	6.26	\$155,407.63	\$503,479.09	\$146,167.35	\$0.00	\$65,897.14
G727001;Grounds	117,600	10.01	\$45,357.23	\$40,207.88	\$171,430.39	\$0.00	\$0.00
Total:		38.25	\$2,235,259.28	\$7,373,019.62	\$1,587,186.40	\$1,074,595.21	\$6,070,965.91

Deficiencies By Priority



Budget Estimate Total: \$18,341,026.42

Executive Summary

Building condition is evaluated based on the functional systems and elements of a building and organized according to the UNIFORMAT II Elemental Classification. The grouping of these systems and elements and applying a current replacement value to them develops a representative building cost model. Cost Models are developed for similar building types and functions. Systems and their elements are evaluated based on their current replacement values, life cycles, installation dates and next renewal dates. Systems and their elements that are within their useful lives are further evaluated to identify current deficient conditions that may have a significant impact on a system's or element's remaining service life, and to determine if they are beyond their predicted expected life. The system's or element's current replacement value is based on RS Means Commercial Cost Data.

Following are the cost model's system details for this facility. The Replacement Value is the amount needed to replace the property of the same present value. The Current Repair Amount, also known as Condition Needs, represents the budgeted contractor installed costs plus owner's soft costs for the repair, replacement or renewal for a component or system level deficiency. It excludes contributing costs for other components or systems that might also be associated with the corrective actions due to packaging the work. Facility Condition Index (FCI) FCI is an industry-standard measurement of facility condition calculated as the ratio of the costs to correct a facility's deficiencies to the facility's Current Replacement Value. It ranges from 0% (new) to 100% (very poor). Condition Index (CI) is calculated as the sum of a renewable system's Remaining Service Life (RSL) divided by the sum of a system's Replacement Value (both values exclude soft-cost to simplify calculation updates) expressed as a percentage ranging from 100% (new) to 0% (expired).

Function: **Elementary School** Gross Area (SF): 62,760 Year Built: 1930 Last Renovation: 1999 Replacement Value: \$31,484,979 Repair Cost: \$17,213,079.71 Total FCI: 54.67 % Total RSLI: 77.85 %



Description:

Attributes:

General Attributes:

Active: Open Bldg ID: B727001

Sewage Ejector: No Status: Accepted by SDP

Site ID: S727001

Condition Summary

The Table below shows the CI and FCI for each major building system shown at the UNIFORMAT classification Level II. Note that Systems with lower FCIs require less investment than systems with higher FCIs.

UNIFORMAT Classification	RSLI %	FCI %	Current Repair Cost
A10 - Foundations	35.00 %	0.00 %	\$0.00
A20 - Basement Construction	35.00 %	2.99 %	\$36,176.43
B10 - Superstructure	35.00 %	0.87 %	\$48,651.21
B20 - Exterior Enclosure	59.24 %	61.12 %	\$2,162,374.17
B30 - Roofing	51.35 %	23.70 %	\$187,586.45
C10 - Interior Construction	30.10 %	30.27 %	\$466,166.00
C20 - Stairs	15.00 %	230.82 %	\$204,258.15
C30 - Interior Finishes	106.46 %	35.42 %	\$1,152,973.33
D10 - Conveying	77.14 %	400.36 %	\$997,521.79
D20 - Plumbing	106.34 %	34.23 %	\$438,688.78
D30 - HVAC	123.23 %	111.81 %	\$7,805,770.49
D40 - Fire Protection	105.71 %	169.68 %	\$858,326.79
D50 - Electrical	110.11 %	72.14 %	\$2,661,304.05
E10 - Equipment	34.29 %	9.09 %	\$90,802.49
E20 - Furnishings	12.50 %	76.66 %	\$102,479.58
Totals:	77.85 %	54.67 %	\$17,213,079.71

Condition Detail

This section of the report contains results of the Facility Condition Assessment. The building is separated into system components based on UNIFORMAT II classification. The columns in the System Listing table below represent the following:

- 1. System Code: A code that identifies the system.
- 2. System Description: A brief description of a system present in the building.
- 3. Unit Price \$: The unit price of the system.
- 4. UoM: The unit of measure for of the system.
- 5. Qty: The quantity for the system
- 6. Life: anticipated service life for the system based on Building Owners and Managers Association (BOMA) recommendations.
- 7. Year Installed: The date of system installation.
- 8. Calc Next Renewal Year: The date of system expiration based on the life, NR stands for non renewable.
- 9. Next Renewal Year: The suggested system expiration date by the assessor based on visual inspection.
- 10. CI: The Condition Index of the system.
- 11. FCI: The Facility Condition Index of the system.
- 12. RSL: Remaining Service Life.
- 13. eCR: eCOMET Condition Rating (not used).
- 14. Deficiency \$: The financial investment to repair/replace system.

System Listing

The System Listing table below lists each of the systems organized by their UNIFORMAT II classification. The assessment team was tasked with recording the most recent replacement year of each system, determining the remaining service life based on the theoretical life, and evaluating the condition to confirm the forecast next replacement year. The system listing is the basis for all data contained in the Building Assessment Report.

Additionally, a condition rating (eCR) based on the following guidelines is provided as observed at the time of the assessment.

- Excellent (E) No noticeable distress or damage. The entire system is free from observable defect.
- Very Good (VG) Overall no serviceability reduction for the entire system. No degradation of critical components and minor distress and defect noticeable for some but not non critical components within the system.
- Good (G) Slight or no serviceability reduction for the entire system. There may be noticeable defects for some non critical components and slight noticeable degradation of the critical components.
- Fair (F) Overall serviceability is degraded but adequate. There may be moderate deterioration for very few of the critical components and few of the non critical components may have severe degradation.
- Marginal (MA) Overall serviceability and reliability loss. Most if not all of the non critical components suffer from severe degradation and a few of the critical component may have severe degradation.
- Moderate (MO) Overall a significant serviceability loss. Most if not all the components have severe degradation with the reminder of the component showing visible distress.
- Very Poor (VP) Overall the system is barely functional. All of the components are severely degraded.
- Non-Functional (NF) Overall the system does not function with all the components having no serviceability and suffer from severe degradation.

System Code	System Description	Unit Price \$	UoM	Qty	Life	Year Installed	Calc Next Renewal Year	Next Renewal Year	RSLI%	FCI%	RSL	eCR	Deficiency \$	Replacement Value \$
A1010	Standard Foundations	\$18.40	S.F.	62,760	100	1930	2030	2050	35.00 %	0.00 %	35			\$1,154,784
A1030	Slab on Grade	\$7.73	S.F.	62,760	100	1930	2030	2050	35.00 %	0.00 %	35			\$485,135
A2010	Basement Excavation	\$6.55	S.F.	62,760	100	1930	2030	2050	35.00 %	0.00 %	35			\$411,078
A2020	Basement Walls	\$12.70	S.F.	62,760	100	1930	2030	2050	35.00 %	4.54 %	35		\$36,176.43	\$797,052
B1010	Floor Construction	\$75.10	S.F.	62,760	100	1930	2030	2050	35.00 %	1.03 %	35		\$48,651.21	\$4,713,276
B1020	Roof Construction	\$13.88	S.F.	62,760	100	1930	2030	2050	35.00 %	0.00 %	35			\$871,109
B2010	Exterior Walls	\$36.91	S.F.	62,760	100	1930	2030	2050	35.00 %	9.93 %	35		\$230,061.89	\$2,316,472
B2020	Exterior Windows	\$18.01	S.F.	62,760	40	1980	2020	2057	105.00 %	159.49 %	42		\$1,802,774.99	\$1,130,308
B2030	Exterior Doors	\$1.45	S.F.	62,760	25	1985	2010	2042	108.00 %	142.35 %	27		\$129,537.29	\$91,002
B3010105	Built-Up	\$37.76	S.F.	14,500	20	1985	2005	2028	65.00 %	32.73 %	13		\$179,208.88	\$547,520
B3010120	Single Ply Membrane	\$38.73	S.F.		20				0.00 %	0.00 %				\$0
B3010130	Preformed Metal Roofing	\$54.22	S.F.		30				0.00 %	0.00 %				\$0
B3010140	Shingle & Tile	\$38.73	S.F.	6,200	25	1985	2010	2020	20.00 %	3.49 %	5		\$8,377.57	\$240,126
B3020	Roof Openings	\$0.06	S.F.	62,760	20	1930	1950	2028	65.00 %	0.00 %	13			\$3,766
C1010	Partitions	\$17.91	S.F.	62,760	100	1930	2030		15.00 %	6.42 %	15		\$72,188.36	\$1,124,032
C1020	Interior Doors	\$3.51	S.F.	62,760	40	1930	1970	2057	105.00 %	171.14 %	42		\$377,001.70	\$220,288
C1030	Fittings	\$3.12	S.F.	62,760	40	1930	1970	2028	32.50 %	8.67 %	13		\$16,975.94	\$195,811
C2010	Stair Construction	\$1.41	S.F.	62,760	100	1930	2030		15.00 %	230.82 %	15		\$204,258.15	\$88,492

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System Code	System Description	Unit Price \$	UoM	Qty	Life	Year Installed	Calc Next Renewal Year	Next Renewal Year	RSLI%	FCI%	RSL	eCR	Deficiency \$	Replacement Value \$
C3010230	Paint & Covering	\$13.21	S.F.	62,760	10	1930	1940	2027	120.00 %	13.22 %	12		\$109,625.27	\$829,060
C3010231	Vinyl Wall Covering	\$0.97	S.F.		15				0.00 %	0.00 %				\$0
C3010232	Wall Tile	\$2.63	S.F.	62,760	30	1930	1960	2020	16.67 %	0.00 %	5			\$165,059
C3020411	Carpet	\$7.30	S.F.		10				0.00 %	0.00 %				\$0
C3020412	Terrazzo & Tile	\$75.52	S.F.		50				0.00 %	0.00 %				\$0
C3020413	Vinyl Flooring	\$9.68	S.F.	9,400	20	1930	1950	2037	110.00 %	132.07 %	22		\$120,175.32	\$90,992
C3020414	Wood Flooring	\$22.27	S.F.	37,650	25	1930	1955	2042	108.00 %	39.81 %	27		\$333,775.14	\$838,466
C3020415	Concrete Floor Finishes	\$0.97	S.F.	15,710	50	1930	1980	2067	104.00 %	403.65 %	52		\$61,512.54	\$15,239
C3030	Ceiling Finishes	\$20.97	S.F.	62,760	25	1985	2010	2042	108.00 %	40.11 %	27		\$527,885.06	\$1,316,077
D1010	Elevators and Lifts	\$3.97	S.F.	62,760	35			2042	77.14 %	400.36 %	27		\$997,521.79	\$249,157
D2010	Plumbing Fixtures	\$13.52	S.F.	62,760	35	1930	1965	2052	105.71 %	7.87 %	37		\$66,795.05	\$848,515
D2020	Domestic Water Distribution	\$1.68	S.F.	62,760	25	1930	1955	2042	108.00 %	23.21 %	27		\$24,473.55	\$105,437
D2030	Sanitary Waste	\$2.90	S.F.	62,760	25	1930	1955	2042	108.00 %	162.13 %	27		\$295,080.85	\$182,004
D2040	Rain Water Drainage	\$2.32	S.F.	62,760	30	1930	1960	2047	106.67 %	35.95 %	32		\$52,339.33	\$145,603
D3020	Heat Generating Systems	\$18.67	S.F.	62,760	35	1930	1965	2052	105.71 %	89.62 %	37		\$1,050,121.66	\$1,171,729
D3030	Cooling Generating Systems	\$24.48	S.F.	62,760	30	1930	1960	2047	106.67 %	162.38 %	32		\$2,494,725.70	\$1,536,365
D3040	Distribution Systems	\$42.99	S.F.	62,760	25	1930	1955	2052	148.00 %	98.29 %	37		\$2,652,016.28	\$2,698,052
D3050	Terminal & Package Units	\$11.60	S.F.	62,760	20	1930	1950	2037	110.00 %	0.00 %	22			\$728,016
D3060	Controls & Instrumentation	\$13.50	S.F.	62,760	20	1930	1950	2037	110.00 %	189.90 %	22		\$1,608,906.85	\$847,260
D4010	Sprinklers	\$7.05	S.F.	62,760	35	1930	1965	2052	105.71 %	193.99 %	37		\$858,326.79	\$442,458
D4020	Standpipes	\$1.01	S.F.	62,760	35	1930	1965	2052	105.71 %	0.00 %	37			\$63,388
D5010	Electrical Service/Distribution	\$9.70	S.F.	62,760	30	1930	1960	2047	106.67 %	111.56 %	32		\$679,156.83	\$608,772
D5020	Lighting and Branch Wiring	\$34.68	S.F.	62,760	20	1930	1950	2037	110.00 %	52.76 %	22		\$1,148,324.35	\$2,176,517
D5030	Communications and Security	\$12.99	S.F.	62,760	15	1930	1945	2032	113.33 %	68.82 %	17		\$561,084.07	\$815,252
D5090	Other Electrical Systems	\$1.41	S.F.	62,760	30	1930	1960	2047	106.67 %	308.21 %	32		\$272,738.80	\$88,492
E1020	Institutional Equipment	\$4.82	S.F.	62,760	35	1930	1965	2027	34.29 %	30.02 %	12		\$90,802.49	\$302,503
E1090	Other Equipment	\$11.10	S.F.	62,760	35	1930	1965	2027	34.29 %	0.00 %	12			\$696,636
E2010	Fixed Furnishings	\$2.13	S.F.	62,760	40	1930	1970	2020	12.50 %	76.66 %	5		\$102,479.58	\$133,679
								Total	77.85 %	54.67 %			\$17,213,079.71	\$31,484,979

System Notes

The facility description in the site executive summary contains an overview of each system. The notes listed below provide additional information on select systems found within the facility.

System:	B3010 - Roof Coverings		This system contains no images
Note:	built up roof 70% shingles 30%		
System:	C3010 - Wall Finishes		This system contains no images
Note:	p	90% 9% 3% 1%	
System:	C3020 - Floor Finishes		This system contains no images
Note:	vinyl floor 15% wood floor 60% concrete 25%		
System:	D5010 - Electrical Service/Distribution		This system contains no images
Note:	75KVA Phase converter transformer		

Renewal Schedule

eCOMET forecasts future Capital Renewal funding needed to address expiring systems based on the Next Renewal year found in the Cost Models. A 3% annual inflation factor is applied to the costs for systems expiring in future years. The table below reflects recommended Capital Renewal funding needs over the next 10 years. Note: Cells with a zero value indicate systems for which renewal is not scheduled in that year.

Inflation Rate: 3%

System	Current Deficiencies	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
Total:	\$17,213,080	\$0	\$0	\$0	\$0	\$687,161	\$0	\$0	\$0	\$0	\$0	\$17,900,241
* A - Substructure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A10 - Foundations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A1010 - Standard Foundations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A1030 - Slab on Grade	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A20 - Basement Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A2010 - Basement Excavation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A2020 - Basement Walls	\$36,176	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$36,176
B - Shell	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B10 - Superstructure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B1010 - Floor Construction	\$48,651	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48,651
B1020 - Roof Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B20 - Exterior Enclosure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B2010 - Exterior Walls	\$230,062	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$230,062
B2020 - Exterior Windows	\$1,802,775	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,802,775
B2030 - Exterior Doors	\$129,537	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$129,537
B30 - Roofing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010 - Roof Coverings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010105 - Built-Up	\$179,209	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$179,209
B3010120 - Single Ply Membrane	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010130 - Preformed Metal Roofing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010140 - Shingle & Tile	\$8,378	\$0	\$0	\$0	\$0	\$306,209	\$0	\$0	\$0	\$0	\$0	\$314,587
B3020 - Roof Openings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C - Interiors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C10 - Interior Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C1010 - Partitions	\$72,188	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$72,188

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C1020 - Interior Doors	\$377,002	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$377,002
C1030 - Fittings	\$16,976	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,976
C20 - Stairs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C2010 - Stair Construction	\$204,258	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$204,258
C30 - Interior Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3010 - Wall Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3010230 - Paint & Covering	\$109,625	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$109,625
C3010231 - Vinyl Wall Covering	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3010232 - Wall Tile	\$0	\$0	\$0	\$0	\$0	\$210,484	\$0	\$0	\$0	\$0	\$0	\$210,484
C3020 - Floor Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020411 - Carpet	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020412 - Terrazzo & Tile	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020413 - Vinyl Flooring	\$120,175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$120,175
C3020414 - Wood Flooring	\$333,775	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$333,775
C3020415 - Concrete Floor Finishes	\$61,513	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$61,513
C3030 - Ceiling Finishes	\$527,885	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$527,885
D - Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D10 - Conveying	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D1010 - Elevators and Lifts	\$997,522	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$997,522
D20 - Plumbing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D2010 - Plumbing Fixtures	\$66,795	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$66,795
D2020 - Domestic Water Distribution	\$24,474	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,474
D2030 - Sanitary Waste	\$295,081	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$295,081
D2040 - Rain Water Drainage	\$52,339	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$52,339
D30 - HVAC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D3020 - Heat Generating Systems	\$1,050,122	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,050,122
D3030 - Cooling Generating Systems	\$2,494,726	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,494,726
D3040 - Distribution Systems	\$2,652,016	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,652,016
D3050 - Terminal & Package Units	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D3060 - Controls & Instrumentation	\$1,608,907	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,608,907
D40 - Fire Protection	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D4010 - Sprinklers	\$858,327	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$858,327
D4020 - Standpipes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

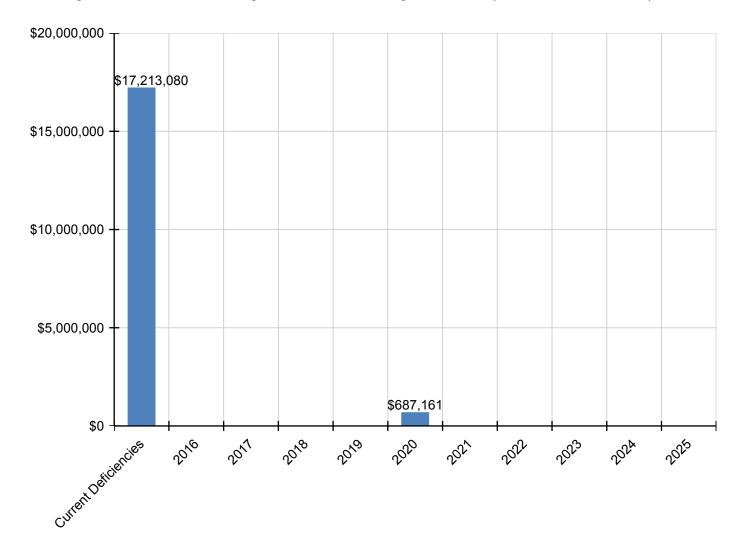
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D50 - Electrical	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D5010 - Electrical Service/Distribution	\$679,157	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$679,157
D5020 - Lighting and Branch Wiring	\$1,148,324	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,148,324
D5030 - Communications and Security	\$561,084	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$561,084
D5090 - Other Electrical Systems	\$272,739	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$272,739
E - Equipment & Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E10 - Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E1020 - Institutional Equipment	\$90,802	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90,802
E1090 - Other Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E20 - Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E2010 - Fixed Furnishings	\$102,480	\$0	\$0	\$0	\$0	\$170,468	\$0	\$0	\$0	\$0	\$0	\$272,947

^{*} Indicates non-renewable system

Forecasted Sustainment Requirement

The following chart shows the current building deficiencies and forecasting sustainment requirements over the next ten years.



10 Year FCI Forecast by Investment Scenario

The chart below illustrates the effect of various investment levels on the building FCI for the next 10 years. The levels of investment shown below include:

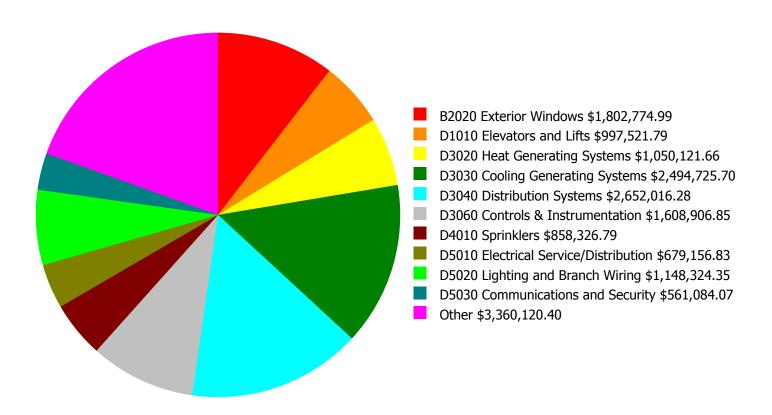
- Current FCI: a variable investment amount based on renewing expired systems to maintain the current FCI for the building
- 2% Investment: an annual investment of 2% of the replacement value of the building, escalated for inflation
- 4% Investment: an annual investment of 4% of the replacement value of the building, escalated for inflation

Facility Investment vs. FCI Forecast \$20,000,000 110.0 % 100.0 % \$15,000,000 90.0 % Investment Amount \$10,000,000 80.0 % 70.0 % \$5,000,000 60.0 % 50.0 % \$0 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 Current Investment Amount/FCI 2% Investment Amount/FCI 4% Investment Amount/FCI

	Investment Amount	2% Investm	ent	4% Investment			
Year	Current FCI - 54.67%	Amount	FCI	Amount	FCI		
2016	\$0	\$648,591.00	52.67 %	\$1,297,181.00	50.67 %		
2017	\$16,677,731	\$668,048.00	100.60 %	\$1,336,097.00	96.60 %		
2018	\$0	\$688,090.00	98.60 %	\$1,376,179.00	92.60 %		
2019	\$0	\$708,732.00	96.60 %	\$1,417,465.00	88.60 %		
2020	\$687,161	\$729,994.00	96.48 %	\$1,459,989.00	86.48 %		
2021	\$0	\$751,894.00	94.48 %	\$1,503,788.00	82.48 %		
2022	\$0	\$774,451.00	92.48 %	\$1,548,902.00	78.48 %		
2023	\$0	\$797,685.00	90.48 %	\$1,595,369.00	74.48 %		
2024	\$0	\$821,615.00	88.48 %	\$1,643,230.00	70.48 %		
2025	\$0	\$846,264.00	86.48 %	\$1,692,527.00	66.48 %		
Total:	\$17,364,892	\$7,435,364.00		\$14,870,727.00			

Deficiency Summary by System

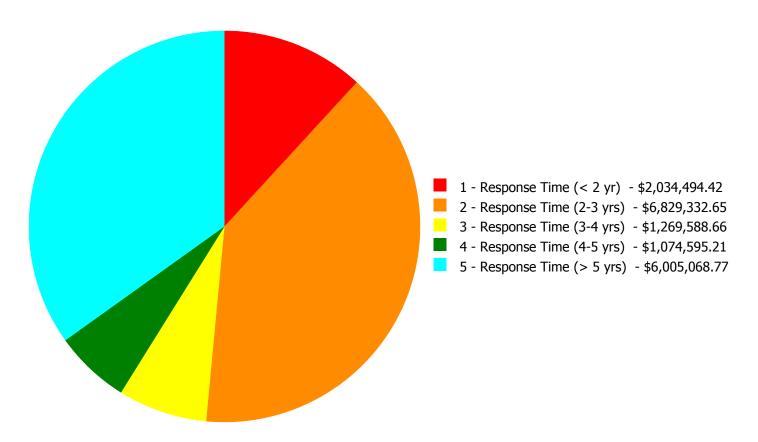
Current deficiencies included assemblies that have reached or exceeded their design life or components of the assemblies that are in need of repair. Assemblies that have reached their design life are identified as current deficiencies and assigned the distress 'Beyond Useful Life'. The following chart lists all current deficiencies associated with this facility.



Budget Estimate Total: \$17,213,079.71

Deficiency Summary by Priority

The following chart shows the total repair costs broken down by priority. Assessors assigned deficiencies within eCOMET to one of the following priority categories:



Budget Estimate Total: \$17,213,079.71

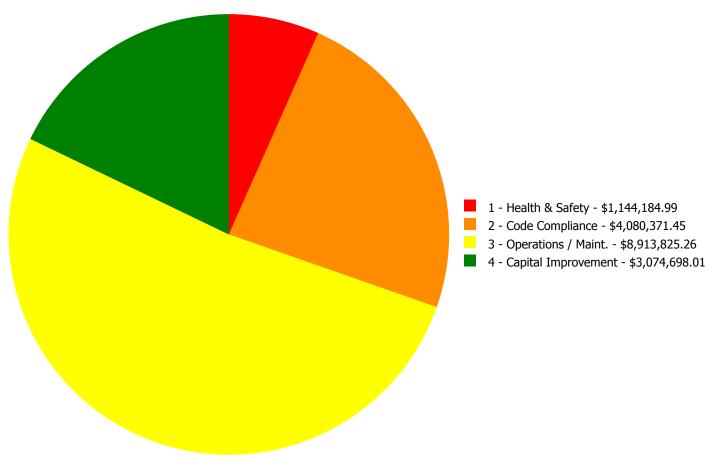
Deficiency By Priority Investment Table

The table below shows the current investment cost grouped by deficiency priority and building system.

System Code	System Description	1 - Response Time (< 2 yr)	2 - Response Time (2-3 yrs)	3 - Response Time (3-4 yrs)	4 - Response Time (4-5 yrs)	5 - Response Time (> 5 yrs)	Total
A2020	Basement Walls	\$1,814.50	\$34,361.93	\$0.00	\$0.00	\$0.00	\$36,176.43
B1010	Floor Construction	\$0.00	\$48,651.21	\$0.00	\$0.00	\$0.00	\$48,651.21
B2010	Exterior Walls	\$0.00	\$230,061.89	\$0.00	\$0.00	\$0.00	\$230,061.89
B2020	Exterior Windows	\$0.00	\$1,802,774.99	\$0.00	\$0.00	\$0.00	\$1,802,774.99
B2030	Exterior Doors	\$0.00	\$129,537.29	\$0.00	\$0.00	\$0.00	\$129,537.29
B3010105	Built-Up	\$50,823.04	\$128,385.84	\$0.00	\$0.00	\$0.00	\$179,208.88
B3010140	Shingle & Tile	\$0.00	\$8,377.57	\$0.00	\$0.00	\$0.00	\$8,377.57
C1010	Partitions	\$0.00	\$72,188.36	\$0.00	\$0.00	\$0.00	\$72,188.36
C1020	Interior Doors	\$0.00	\$377,001.70	\$0.00	\$0.00	\$0.00	\$377,001.70
C1030	Fittings	\$0.00	\$16,975.94	\$0.00	\$0.00	\$0.00	\$16,975.94
C2010	Stair Construction	\$204,258.15	\$0.00	\$0.00	\$0.00	\$0.00	\$204,258.15
C3010230	Paint & Covering	\$0.00	\$109,625.27	\$0.00	\$0.00	\$0.00	\$109,625.27
C3020413	Vinyl Flooring	\$0.00	\$120,175.32	\$0.00	\$0.00	\$0.00	\$120,175.32
C3020414	Wood Flooring	\$0.00	\$333,775.14	\$0.00	\$0.00	\$0.00	\$333,775.14
C3020415	Concrete Floor Finishes	\$0.00	\$61,512.54	\$0.00	\$0.00	\$0.00	\$61,512.54
C3030	Ceiling Finishes	\$0.00	\$527,885.06	\$0.00	\$0.00	\$0.00	\$527,885.06
D1010	Elevators and Lifts	\$0.00	\$997,521.79	\$0.00	\$0.00	\$0.00	\$997,521.79
D2010	Plumbing Fixtures	\$0.00	\$66,795.05	\$0.00	\$0.00	\$0.00	\$66,795.05
D2020	Domestic Water Distribution	\$0.00	\$0.00	\$0.00	\$24,473.55	\$0.00	\$24,473.55
D2030	Sanitary Waste	\$0.00	\$0.00	\$295,080.85	\$0.00	\$0.00	\$295,080.85
D2040	Rain Water Drainage	\$0.00	\$52,339.33	\$0.00	\$0.00	\$0.00	\$52,339.33
D3020	Heat Generating Systems	\$0.00	\$0.00	\$0.00	\$1,050,121.66	\$0.00	\$1,050,121.66
D3030	Cooling Generating Systems	\$0.00	\$0.00	\$0.00	\$0.00	\$2,494,725.70	\$2,494,725.70
D3040	Distribution Systems	\$0.00	\$0.00	\$0.00	\$0.00	\$2,652,016.28	\$2,652,016.28
D3060	Controls & Instrumentation	\$0.00	\$1,608,906.85	\$0.00	\$0.00	\$0.00	\$1,608,906.85
D4010	Sprinklers	\$0.00	\$0.00	\$0.00	\$0.00	\$858,326.79	\$858,326.79
D5010	Electrical Service/Distribution	\$679,156.83	\$0.00	\$0.00	\$0.00	\$0.00	\$679,156.83
D5020	Lighting and Branch Wiring	\$419,327.38	\$0.00	\$728,996.97	\$0.00	\$0.00	\$1,148,324.35
D5030	Communications and Security	\$561,084.07	\$0.00	\$0.00	\$0.00	\$0.00	\$561,084.07
D5090	Other Electrical Systems	\$27,227.96	\$0.00	\$245,510.84	\$0.00	\$0.00	\$272,738.80
E1020	Institutional Equipment	\$90,802.49	\$0.00	\$0.00	\$0.00	\$0.00	\$90,802.49
E2010	Fixed Furnishings	\$0.00	\$102,479.58	\$0.00	\$0.00	\$0.00	\$102,479.58
	Total:	\$2,034,494.42	\$6,829,332.65	\$1,269,588.66	\$1,074,595.21	\$6,005,068.77	\$17,213,079.71

Deficiency Summary by Category

The following chart shows the total repair costs broken down by deficiency categories. Assessors assigned deficiencies to one of the following categories:



Budget Estimate Total: \$17,213,079.71

Deficiency Details by Priority

The deficiency detail notes listed below provide additional information on identified deficiencies found within the facility.

Priority 1 - Response Time (< 2 yr):

System: A2020 - Basement Walls



Location: basement

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Repair cracks in foundation walls - pick the

appropriate repair and insert the LF

Qty: 100.00

Unit of Measure: L.F.

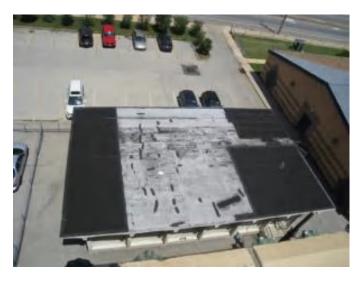
Estimate: \$1,814.50

Assessor Name: System

Date Created: 09/03/2015

Notes: Repair structural crack in foundation wall -chase out concrete, patch with concrete (100ft)

System: B3010105 - Built-Up



Location: portable building

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Remove and Replace Built Up Roof

Qty: 1,500.00

Unit of Measure: S.F.

Estimate: \$50,823.04

Assessor Name: System

Date Created: 09/03/2015

Notes: Replace roof on portable building (1500sf)

System: C2010 - Stair Construction



Location: stairways auditorium lobby

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 1 - Response Time (< 2 yr)

Correction: Replace inadequate or install proper stair railing

- select appropriate material

Qty: 300.00

Unit of Measure: L.F.

Estimate: \$140,427.23

Assessor Name: System

Date Created: 09/03/2015

Notes: Remove and replace stairway handrails and guards and guards and guards at auditorium entrance with code compliant systems (3) 4 story;=25x12=300lf wall mounted handrails and center mounted rails and balustrade; + 50ft @ auditorium

System: C2010 - Stair Construction



Location: exterior stairs

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Repair exterior stairs

Qty: 50.00

Unit of Measure: Riser

Estimate: \$48,238.22

Assessor Name: System

Date Created: 09/03/2015

Notes: Reset treads, regrout all joints between limestone block tread/risers, repair brick on sides of stairs at exterior stairs (50 treads)

System: C2010 - Stair Construction



Location: exterior stairs

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Replace inadequate or install proper stair railing

- select appropriate material

Qty: 100.00

Unit of Measure: L.F.

Estimate: \$15,592.70

Assessor Name: System

Date Created: 09/03/2015

Notes: Replace handrails at reconstructed exterior stairs (1000lf)

System: D5010 - Electrical Service/Distribution



Location: Boiler Room in the basement

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Replace Switchboard

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$365,053.68

Assessor Name: System

Date Created: 08/13/2015

Notes: Upgrade the existing electrical service entrance. Replace the existing incoming and distribution switchboard with new 1200A, 480/277, 3PH, 4 wire switchboards.

System: D5010 - Electrical Service/Distribution



Location: Entire Building

Distress: Building / MEP Codes

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Replace Electrical Distribution System (U)

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$314,103.15

Assessor Name: System

Date Created: 08/13/2015

Notes: Replace the entire distribution system with new panel boards and new feeders. Provide arc flush label on the all panel boards. Estimated, 16 panel boards.

System: D5020 - Lighting and Branch Wiring



Location: Entire Building

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 1 - Response Time (< 2 yr)

Correction: Replace Wiring Devices (SF) - surface mounted

conduit and boxes

Qty: 1.00

Unit of Measure: S.F.

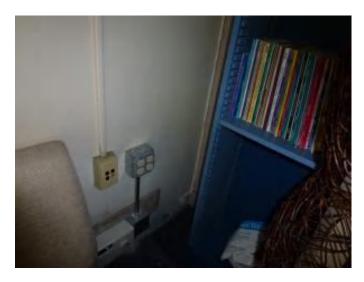
Estimate: \$417,679.81

Assessor Name: System

Date Created: 08/13/2015

Notes: Install minimum two receptacles in each wall of class rooms. It is recommend that surface mounted raceway with tow-compartment, for data and power, be installed in the computer lab room.

System: D5020 - Lighting and Branch Wiring



Location: Portable Building

Distress: Life Safety / NFPA / PFD

Category: 1 - Health & Safety

Priority: 1 - Response Time (< 2 yr)

Correction: Replace Wiring Device

Qty: 10.00

Unit of Measure: Ea.

Estimate: \$1,647.57

Assessor Name: System

Date Created: 08/13/2015

Notes: Replace existing receptacle with GFIC receptacle in the areas subject to kid access in portable building. Estimated 10 each.

System: D5030 - Communications and Security



Location: Entire Building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Replace fire alarm system

Qty: 1.00

Unit of Measure: S.F.

Estimate: \$324,719.29

Assessor Name: System

Date Created: 08/13/2015

Notes: Replace existing fire alarm system with a new automatic Fire Alarm System including control panel, initiated devices in corridors, air ducts, electrical and LAN rooms, library, and computer rooms. Provide notification devices in class rooms, offices, auditorium, corridors, other area recommended by codes.

System: D5030 - Communications and Security



Notes: Replace existing master clock system.

Location: Entire Building

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Add/Replace Clock System or Components

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$164,874.77

Assessor Name: System

Date Created: 08/13/2015

System: D5030 - Communications and Security

This deficiency has no image.

Location: Auditorium

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 1 - Response Time (< 2 yr)

Correction: Add/Replace Sound System

Qty: 1.00

Unit of Measure: LS

Estimate: \$44,392.64

Assessor Name: System

Date Created: 08/13/2015

Notes: Provide new sound system including a freestanding 19" rack backstage with mixer per 3amplifiers, CD player, cassette player, AM-FM radio, graphic or parametric equalizer, and receivers for wireless microphone.

System: D5030 - Communications and Security



Location: Exterior Building

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 1 - Response Time (< 2 yr)

Correction: Add/Replace Video Surveillance System

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$27,097.37

Assessor Name: System

Date Created: 08/13/2015

Notes: Provide sufficient number of cameras on portable building exterior wall and connect them to main building CCTV system. Estimated 3each

System: D5090 - Other Electrical Systems



Location: Roof

Distress: Life Safety / NFPA / PFD

Category: 1 - Health & Safety

Priority: 1 - Response Time (< 2 yr)

Correction: Repair Lightning Protection System

Qty: 1.00

Unit of Measure: Job

Estimate: \$27,227.96

Assessor Name: System

Date Created: 08/13/2015

Notes: Provide lightning protection studies to ascertain adequacy of existing systems.

System: E1020 - Institutional Equipment



Location: Auditorium

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 1 - Response Time (< 2 yr)

Correction: Add/Replace Stage Theatrical Lighting System

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$90,802.49

Assessor Name: System

Date Created: 08/13/2015

Notes: Provide new stage lighting and controller in Auditorium.

Priority 2 - Response Time (2-3 yrs):

System: A2020 - Basement Walls



Location: basement

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Repair concrete wall in poor condition including

rebar dowelling - insert the SF of wall area

Qty: 100.00

Unit of Measure: S.F.

Estimate: \$22,907.96

Assessor Name: System

Date Created: 09/03/2015

Notes: Repair structural crack in foundation wall -chase out concrete, patch with concrete (100ft)

System: A2020 - Basement Walls



Location: portable building

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Repair concrete wall in poor condition including

rebar dowelling - insert the SF of wall area

Qty: 50.00

Unit of Measure: S.F.

Estimate: \$11,453.97

Assessor Name: System

Date Created: 09/03/2015

Notes: Repair structural crack in Portable Building foundation wall -chase out concrete, patch with concrete (50ft)

System: B1010 - Floor Construction



Location: exterior stair towers

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Repair rebar and epoxy grout exposed rebar on

the underside of floors and floor beams

Qty: 600.00

Unit of Measure: S.F.

Estimate: \$48,651.21

Assessor Name: System

Date Created: 09/03/2015

Notes: Repair spalling concrete ceilings (landing platforms) in 2 exterior exit stairways all 3 floors (600sf)

System: B2010 - Exterior Walls



Location: basement windows and doorways

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replacing failing steel lintels in

brick wall construction

Qty: 400.00

Unit of Measure: L.F.

Estimate: \$191,210.01

Assessor Name: System

Date Created: 09/03/2015

Notes: Remove and replace all lintels and cracked masonry at basement windows and grade exit doorways and rooftop structures (80)

System: B2010 - Exterior Walls



Location: brick exterior walls

Distress: Building Envelope Integrity

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Repair cracks in masonry - replace missing

mortar and repoint - SF of wall area

Qty: 1,000.00

Unit of Measure: S.F.

Estimate: \$32,289.47

Assessor Name: System

Date Created: 09/03/2015

Notes: Repoint cracked brickwork on roof top structures and attic level windows (1500sf)

System: B2010 - Exterior Walls



Location: Front Street side of bldg

Distress: Appearance

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Sooty and dirty walls - powerwash

Qty: 6,000.00

Unit of Measure: S.F.

Estimate: \$6,562.41

Assessor Name: System

Date Created: 09/04/2015

Notes: Powerwash front entrance and elevation facing Front Street (6000sf)

System: B2020 - Exterior Windows



Location: exterior walls

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace aluminum windows - pick

the appropriate size and style and insert the

number of units

Qty: 300.00

Unit of Measure: Ea.

Estimate: \$1,802,774.99

Assessor Name: System

Date Created: 09/03/2015

Notes: Replace all exterior windows with insulated single hung units (300)3.5x8 ave size

System: B2030 - Exterior Doors



Location: exterior walls

Distress: Building Envelope Integrity

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace exterior doors - per leaf

Qty: 16.00

Unit of Measure: Ea.

Estimate: \$129,537.29

Assessor Name: System

Date Created: 09/03/2015

Notes: Replace all exterior doors with ADA and code compliant exit hardware; repaint doors and frames.(16)3x7

System: B3010105 - Built-Up



Location: building roof - coping

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace or replace parapet caps -

BUR

Qty: 1,500.00

Unit of Measure: L.F.

Estimate: \$128,385.84

Assessor Name: System

Date Created: 09/03/2015

Notes: Provide new aluminum coping on top of terra cotta coping (1500ft)

System: B3010140 - Shingle & Tile



Location: auditorium roof

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Rain gutter replacment - select the type of

material and number of mitres

Qty: 250.00

Unit of Measure: L.F.

Estimate: \$8,377.57

Assessor Name: System

Date Created: 09/03/2015

Notes: Repair metal gutter trough over auditorium (250lf)

System: C1010 - Partitions



Location: classrooms

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove folding wood partitions; replace with

metal studs and gypsum board painted

Qty: 3,000.00

Unit of Measure: S.F.

Estimate: \$66,838.49

Assessor Name: System

Date Created: 09/03/2015

Notes: Remove folding wood partitions; replace with gypsum board and metal stud walls (9) @300sf ea =2700sf

System: C1010 - Partitions



Location: corridors, above classroom doors

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove non-rated interior glass panels and

replace with studs, gypsum board, paint (E)

wall

Qty: 200.00

Unit of Measure: S.F.

Estimate: \$5,349.87

Assessor Name: System

Date Created: 09/03/2015

Notes: Remove non-rated glass panels between classrooms and corridors; fill with fire rated gyp bd sys. (30 @ 6sf)

System: C1020 - Interior Doors



Location: classrooms and offices

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace interior doors - wood

doors with wood frame - per leaf

Qty: 50.00

Unit of Measure: Ea.

Estimate: \$232,716.95

Assessor Name: System

Date Created: 09/03/2015

Notes: Remove and replace all wood interior doors, frames and hardware in classrooms and offices, etc. with fire rated doors with fire rated glazing (50)

System: C1020 - Interior Doors



Location: basement

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace hollow metal frames and

doors

Qty: 18.00

Unit of Measure: Ea.

Estimate: \$91,403.77

Assessor Name: System

Date Created: 09/03/2015

Notes: Remove and replace all basement steel doors, frames, and hardware in mechanical rooms and stairways (18 3x7 doors)

System: C1020 - Interior Doors



Location: interior rooms

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Refinish interior doors

Qty: 50.00

Unit of Measure: Ea.

Estimate: \$41,409.15

Assessor Name: System

Date Created: 12/14/2015

Notes: Refinish worn closet and other interior classroom doors (50 doors)

System: C1020 - Interior Doors



Location: classrooms and offices

Distress: Security Issue

Category: 1 - Health & Safety

Priority: 2 - Response Time (2-3 yrs)

Correction: Provide security hardware for classroom and

office doors

Qty: 50.00

Unit of Measure: Ea.

Estimate: \$11,471.83

Assessor Name: System

Date Created: 09/03/2015

Notes: Provide security hardware on classrooms and offices (50sets)

System: C1030 - Fittings



Location: toilet rooms (upstairs)

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Replace toilet accessories - select accessories

and quantity

Qty: 6.00

Unit of Measure: Ea.

Estimate: \$16,975.94

Assessor Name: System

Date Created: 09/03/2015

Notes: Provide toilet room accessories (6 sets)

System: C3010230 - Paint & Covering



Location: interior walls

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Repair substrate and repaint interior walls - SF

of wall surface

Qty: 10,000.00

Unit of Measure: S.F.

Estimate: \$72,115.26

Assessor Name: System

Date Created: 09/03/2015

Notes: Repair water damage, cracks, and repaint all interior plaster walls and ceilings (10,000sf)

System: C3010230 - Paint & Covering



Location: basement - boiler room

Distress: Appearance

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Repair substrate and repaint interior concrete

or CMU walls - SF of wall surface

Qty: 5,000.00

Unit of Measure: S.F.

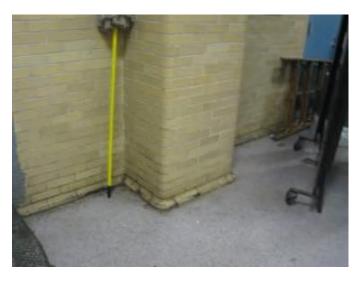
Estimate: \$37,510.01

Assessor Name: System

Date Created: 09/03/2015

Notes: Strip and repaint concrete foundation (basement) walls in mechanical rooms (5,000sf)

System: C3020413 - Vinyl Flooring



Location: misc rooms and gym

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace VCT

Qty: 10,000.00

Unit of Measure: S.F.

Estimate: \$120,175.32

Assessor Name: System

Date Created: 09/03/2015

Notes: Remove and replace all 12"x12" VCT floors in gymnasium and other rooms (10,000sf)

System: C3020414 - Wood Flooring



Location: classrooms and offices

Distress: Appearance

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Refinish wood floors

Qty: 30,000.00

Unit of Measure: S.F.

Estimate: \$323,008.20

Assessor Name: System

Date Created: 09/03/2015

Notes: Strip, sand, repair and refinish all wood floors in classrooms and in auditorium (7000sf x 3.5 + 6000 = 30000sf)

System: C3020414 - Wood Flooring



Location: auditorium walls

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Refinish wood floors

Qty: 1,000.00

Unit of Measure: S.F.

Estimate: \$10,766.94

Assessor Name: System

Date Created: 09/03/2015

Notes: Repair and refinish wood panels (wainscot) in auditorium (1000sf)

System: C3020415 - Concrete Floor Finishes



Location: all floors

Distress: Appearance

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Clean and reseal concrete floors

Qty: 16,000.00

Unit of Measure: S.F.

Estimate: \$61,512.54

Assessor Name: System

Date Created: 09/03/2015

Notes: Clean and repaint basement floor in mechanical rooms; clean and reseal concrete floors in hallways and stairways (16000sf)

System: C3030 - Ceiling Finishes



Location: entire building except basement and auditorium

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace suspended acoustic

ceilings - lighting not included

Qty: 35,000.00

Unit of Measure: S.F.

Estimate: \$527,885.06

Assessor Name: System

Date Created: 09/03/2015

Notes: Replace all 2x4 acoustical tile ceilings (45,000sf)

System: D1010 - Elevators and Lifts

This deficiency has no image. Location: corridor

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 2 - Response Time (2-3 yrs)

Correction: Add external 5 stop elevator - adjust the

electrical run lengths to hook up the elevator

Qty: 1.00

Unit of Measure: Ea.

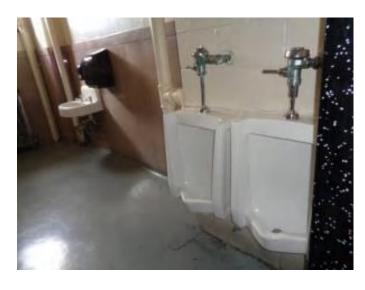
Estimate: \$997,521.79

Assessor Name: System

Date Created: 09/03/2015

Notes: add elevator (4-5 stop); provide access to 3 floors, basement, and auditorium

System: D2010 - Plumbing Fixtures



Location: Throughout the building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace or replace wall hung

urinals

Qty: 12.00

Unit of Measure: Ea.

Estimate: \$39,829.00

Assessor Name: System

Date Created: 10/12/2015

Notes: Replace all urinals in the building with lower flow fixtures, as the fixtures are original in the Main building.

System: D2010 - Plumbing Fixtures



Location: Throughout the building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace water fountains to meet

ADA - includes high and low fountains and new

recessed alcove

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$15,692.89

Assessor Name: System

Date Created: 10/12/2015

Notes: Replace of all drinking fountains in the Main building. These units are well beyond their service life and most are NOT

accessible type.

System: D2010 - Plumbing Fixtures



Location: Throughout the building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace or replace water closet -

quantify additional units

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$7,462.15

Assessor Name: System

Date Created: 10/12/2015

Notes: Replace all water closets in the building with lower flow fixtures, as the fixtures are original in the Main building.

System: D2010 - Plumbing Fixtures



Location: Throughout the building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace or replace lavatory -

quantify accessible if required

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$3,811.01

Assessor Name: System

Date Created: 10/12/2015

Notes: Replace all lavatories in the building with lower flow fixtures, as the fixtures are original in the Main building.

System: D2040 - Rain Water Drainage



Location: Roof

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 2 - Response Time (2-3 yrs)

Correction: Create new overflow scupper through a parapet

with up to 100' downspout

Qty: 5.00

Unit of Measure: Ea.

Estimate: \$52,339.33

Assessor Name: System

Date Created: 10/12/2015

Notes: Add roof overflow drains to the main building to provide a secondary means of drainage.

System: D3060 - Controls & Instrumentation



Location: Throughout the building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Replace pneumatic controls with DDC (75KSF)

Qty: 75,000.00

Unit of Measure: S.F.

Estimate: \$1,608,906.85

Assessor Name: System

Date Created: 10/12/2015

Notes: Provide a new building automation system in the main building (BAS) with communication interface to the preferred system in use throughout the District.

System: E2010 - Fixed Furnishings



Location: auditorium

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Replace auditorium seating - add tablet arms if

required. Veneer seating is an option.

Qty: 400.00

Unit of Measure: Ea.

Estimate: \$102,479.58

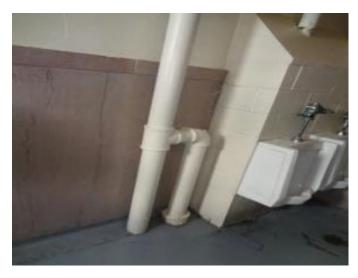
Assessor Name: System

Date Created: 09/03/2015

Notes: Repair operation and refinish (sand, stain, varnish) damaged folding wood auditorium chairs (400);

Priority 3 - Response Time (3-4 yrs):

System: D2030 - Sanitary Waste



Location: Throughout the building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 3 - Response Time (3-4 yrs)

Correction: Inspect sanitary waste piping and replace

damaged sections. (+50KSF)

Qty: 60,150.00

Unit of Measure: S.F.

Estimate: \$295,080.85

Assessor Name: System

Date Created: 10/12/2015

Notes: Hire a qualified contractor to perform a detailed examination of the sanitary waste piping using visual inspection and video cameras to locate and replace any damaged piping and to further quantify the extent of potential failures.

System: D5020 - Lighting and Branch Wiring



Location: Entire Building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 3 - Response Time (3-4 yrs)

Correction: Replace Lighting Fixtures (SF)

Qty: 1.00

Unit of Measure: S.F.

Estimate: \$728,996.97

Assessor Name: System

Date Created: 08/13/2015

Notes: Replace all lighting fixtures with new fluorescent lighting fixtures with T-5 lamp.

System: D5090 - Other Electrical Systems

This deficiency has no image. Location: B727001; Finletter

Distress: Life Safety / NFPA / PFD

Category: 1 - Health & Safety

Priority: 3 - Response Time (3-4 yrs)

Correction: Add Standby Generator System

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$245,510.84

Assessor Name: System

Date Created: 09/24/2015

Notes: Install a new emergency power system including 100KW diesel generator and respective transfer switch.

Priority 4 - Response Time (4-5 yrs):

System: D2020 - Domestic Water Distribution



Location: Boiler Mechanical Equipment Room

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 4 - Response Time (4-5 yrs)

Correction: Replace instantaneous water heater

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$24,473.55

Assessor Name: System

Date Created: 10/12/2015

Notes: Install new hot water heaters in the main building.

System: D3020 - Heat Generating Systems



Location: Boiler Mechanical Equipment Room

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 4 - Response Time (4-5 yrs)

Correction: Replace boiler, cast iron sectional (150 HP)

Qty: 2.00

Unit of Measure: Ea.

Estimate: \$1,050,121.66

Assessor Name: System

Date Created: 10/12/2015

Notes: Remove existing steam boilers.

Priority 5 - Response Time (> 5 yrs):

System: D3030 - Cooling Generating Systems

This deficiency has no image.

Location: Main building

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 5 - Response Time (> 5 yrs)

Correction: Install chilled water system with distribution

piping and pumps. (+150KSF)

Qty: 150,000.00

Unit of Measure: S.F.

Estimate: \$2,494,725.70

Assessor Name: System

Date Created: 10/12/2015

Notes: Install chiller and chilled water distribution system.

System: D3040 - Distribution Systems



Location: Throughout the building

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 5 - Response Time (> 5 yrs)

Correction: Provide classroom FC units and dedicated OA

ventilation system. (20 clsrms)

Qty: 20.00

Unit of Measure: C

Estimate: \$1,661,219.77

Assessor Name: System

Date Created: 10/12/2015

Notes: Install unit ventilators in all classrooms. Replace the existing unit ventilators throughout the building with new units designed to provide adequate ventilation per ASHRAE Std. 62. The new units shall be equipped with hot water / chilled water coils and integral heat recovery wheels. Install steam converters in the existing boiler room with circulating pumps, distribution piping and controls to provide heating hot water for the new coils.

System: D3040 - Distribution Systems



Location: Cafeteria

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 5 - Response Time (> 5 yrs)

Correction: Install HVAC unit for Cafeteria (850 students).

Qty: 850.00

Unit of Measure: Pr.

Estimate: \$397,410.06

Assessor Name: System

Date Created: 10/12/2015

Notes: Install AHUs to condition the cafeteria. Provide ventilation, heating and cooling for the Cafeteria by removing the electric convection heaters and installing a package rooftop constant volume air handling unit with distribution ductwork and registers for supply and return air.

System: D3040 - Distribution Systems

This deficiency has no image. **Location:** Gymnasium

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 5 - Response Time (> 5 yrs)

Correction: Install HVAC unit for Gymnasium (single

station).

Qty: 6,000.00

Unit of Measure: Ea.

Estimate: \$308,301.04

Assessor Name: System

Date Created: 10/12/2015

Notes: Install AHUs to condition the gymnasium. Provide ventilation, heating and cooling for the Auditorium by installing a package rooftop constant volume air handling unit with distribution ductwork and registers.

System: D3040 - Distribution Systems



Location: Auditorium

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 5 - Response Time (> 5 yrs)

Correction: Install HVAC unit for Auditorium (200 seat).

Qty: 200.00

Unit of Measure: Seat

Estimate: \$285,085.41

Assessor Name: System

Date Created: 10/12/2015

Notes: Install AHUs to condition the auditorium. Provide ventilation, heating and cooling for the Auditorium by installing a package rooftop constant volume air handling unit with distribution ductwork and registers.

System: D4010 - Sprinklers



Location: Throughout the building

Distress: Life Safety / NFPA / PFD

Category: 1 - Health & Safety

Priority: 5 - Response Time (> 5 yrs)

Correction: Install a fire protection sprinkler system

Qty: 60,000.00

Unit of Measure: S.F.

Estimate: \$858,326.79

Assessor Name: System

Date Created: 10/12/2015

Notes: Install a fire protection sprinkler system with quick response type heads to reduce insurance costs by providing protection for the property in the main building. A fire pump may be required depending on the available city water pressure.

Equipment Inventory

The following table represents the inventory details of the inventory found in the building, which fall under the following subsystems:

Subsystem	Inventory	Qty	UoM	Location	Manufacturer	Model Number	Serial Number	Barcode	Life	Install Date	Next Renewal	Raw Cost	Inventory Cost
Systems	Boiler, oil fired, flame retention burner, cast iron, steam, gross output, 4940 MBH, includes standard controls and insulated flush jacket, packaged	2.00		Boiler Mechanical Equipment Room	Weil McLain	1994			35			\$103,881.00	\$228,538.20
Systems	Boiler, oil fired, flame retention burner, cast iron, steam, gross output, 4940 MBH, includes standard controls and insulated flush jacket, packaged	2.00	-	Boiler Mechanical Equipment Room	Weil McLain	1994			35			\$103,881.00	\$228,538.20
	Panelboards, 3 pole 3 wire, main circuit breaker, 240 V, 225 amp	1.00	Ea.						30	1930	2017	\$3,105.00	\$3,415.50
												Total:	\$460,491.90

Executive Summary

Building condition is evaluated based on the functional systems and elements of a building and organized according to the UNIFORMAT II Elemental Classification. The grouping of these systems and elements and applying a current replacement value to them develops a representative building cost model. Cost Models are developed for similar building types and functions. Systems and their elements are evaluated based on their current replacement values, life cycles, installation dates and next renewal dates. Systems and their elements that are within their useful lives are further evaluated to identify current deficient conditions that may have a significant impact on a system's or element's remaining service life, and to determine if they are beyond their predicted expected life. The system's or element's current replacement value is based on RS Means Commercial Cost Data.

Following are the cost model's system details for this facility. The Replacement Value is the amount needed to replace the property of the same present value. The Current Repair Amount, also known as Condition Needs, represents the budgeted contractor installed costs plus owner's soft costs for the repair, replacement or renewal for a component or system level deficiency. It excludes contributing costs for other components or systems that might also be associated with the corrective actions due to packaging the work. Facility Condition Index (FCI) FCI is an industry-standard measurement of facility condition calculated as the ratio of the costs to correct a facility's deficiencies to the facility's Current Replacement Value. It ranges from 0% (new) to 100% (very poor). Condition Index (CI) is calculated as the sum of a renewable system's Remaining Service Life (RSL) divided by the sum of a system's Replacement Value (both values exclude soft-cost to simplify calculation updates) expressed as a percentage ranging from 100% (new) to 0% (expired).

Function: Little School House
Gross Area (SF): 23,523
Year Built: 1997
Last Renovation:

 Replacement Value:
 \$13,902,135

 Repair Cost:
 \$870,951.21

 Total FCI:
 6.26 %

 Total RSLI:
 59.30 %



Description:

Attributes:

General Attributes:

Active: Open Bldg ID: B727002

Sewage Ejector: No Status: Accepted by SDP

Site ID: S727001

Condition Summary

The Table below shows the CI and FCI for each major building system shown at the UNIFORMAT classification Level II. Note that Systems with lower FCIs require less investment than systems with higher FCIs.

UNIFORMAT Classification	RSLI %	FCI %	Current Repair Cost
A10 - Foundations	82.00 %	0.00 %	\$0.00
A20 - Basement Construction	82.00 %	0.00 %	\$0.00
B10 - Superstructure	82.00 %	0.00 %	\$0.00
B20 - Exterior Enclosure	72.15 %	6.81 %	\$74,556.10
B30 - Roofing	25.44 %	0.00 %	\$0.00
C10 - Interior Construction	72.67 %	0.86 %	\$4,588.73
C20 - Stairs	82.00 %	0.00 %	\$0.00
C30 - Interior Finishes	40.04 %	0.29 %	\$3,483.08
D20 - Plumbing	44.94 %	0.00 %	\$0.00
D30 - HVAC	47.38 %	17.98 %	\$470,487.24
D40 - Fire Protection	48.57 %	7.90 %	\$16,739.78
D50 - Electrical	45.89 %	21.78 %	\$301,096.28
E10 - Equipment	48.57 %	0.00 %	\$0.00
E20 - Furnishings	55.00 %	0.00 %	\$0.00
Totals:	59.30 %	6.26 %	\$870,951.21

Condition Detail

This section of the report contains results of the Facility Condition Assessment. The building is separated into system components based on UNIFORMAT II classification. The columns in the System Listing table below represent the following:

- 1. System Code: A code that identifies the system.
- 2. System Description: A brief description of a system present in the building.
- 3. Unit Price \$: The unit price of the system.
- 4. UoM: The unit of measure for of the system.
- 5. Qty: The quantity for the system
- 6. Life: anticipated service life for the system based on Building Owners and Managers Association (BOMA) recommendations.
- 7. Year Installed: The date of system installation.
- 8. Calc Next Renewal Year: The date of system expiration based on the life, NR stands for non renewable.
- 9. Next Renewal Year: The suggested system expiration date by the assessor based on visual inspection.
- 10. CI: The Condition Index of the system.
- 11. FCI: The Facility Condition Index of the system.
- 12. RSL: Remaining Service Life.
- 13. eCR: eCOMET Condition Rating (not used).
- 14. Deficiency \$: The financial investment to repair/replace system.

System Listing

The System Listing table below lists each of the systems organized by their UNIFORMAT II classification. The assessment team was tasked with recording the most recent replacement year of each system, determining the remaining service life based on the theoretical life, and evaluating the condition to confirm the forecast next replacement year. The system listing is the basis for all data contained in the Building Assessment Report.

Additionally, a condition rating (eCR) based on the following guidelines is provided as observed at the time of the assessment.

- Excellent (E) No noticeable distress or damage. The entire system is free from observable defect.
- Very Good (VG) Overall no serviceability reduction for the entire system. No degradation of critical components and minor distress and defect noticeable for some but not non critical components within the system.
- Good (G) Slight or no serviceability reduction for the entire system. There may be noticeable defects for some non critical components and slight noticeable degradation of the critical components.
- Fair (F) Overall serviceability is degraded but adequate. There may be moderate deterioration for very few of the critical components and few of the non critical components may have severe degradation.
- Marginal (MA) Overall serviceability and reliability loss. Most if not all of the non critical components suffer from severe degradation and a few of the critical component may have severe degradation.
- Moderate (MO) Overall a significant serviceability loss. Most if not all the components have severe degradation with the reminder of the component showing visible distress.
- Very Poor (VP) Overall the system is barely functional. All of the components are severely degraded.
- Non-Functional (NF) Overall the system does not function with all the components having no serviceability and suffer from severe degradation.

System Code	System Description	Unit Price \$	UoM	Qty	Life	Year Installed	Calc Next Renewal Year	Next Renewal Year	RSLI%	FCI%	RSL	eCR	Deficiency \$	Replacement Value \$
A1010	Standard Foundations	\$24.32	S.F.	23,523	100	1997	2097		82.00 %	0.00 %	82			\$572,079
A1030	Slab on Grade	\$15.51	S.F.	23,523	100	1997	2097		82.00 %	0.00 %	82			\$364,842
A2010	Basement Excavation	\$13.07	S.F.	23,523	100	1997	2097		82.00 %	0.00 %	82			\$307,446
A2020	Basement Walls	\$23.02	S.F.	23,523	100	1997	2097		82.00 %	0.00 %	82			\$541,499
B1010	Floor Construction	\$92.20	S.F.	23,523	100	1997	2097		82.00 %	0.00 %	82			\$2,168,821
B1020	Roof Construction	\$24.11	S.F.	23,523	100	1997	2097		82.00 %	0.00 %	82			\$567,140
B2010	Exterior Walls	\$31.22	S.F.	23,523	100	1997	2097		82.00 %	2.27 %	82		\$16,648.09	\$734,388
B2020	Exterior Windows	\$13.63	S.F.	23,523	40	1997	2037		55.00 %	16.76 %	22		\$53,727.22	\$320,618
B2030	Exterior Doors	\$1.67	S.F.	23,523	25	1997	2022		28.00 %	10.64 %	7		\$4,180.79	\$39,283
B3010105	Built-Up	\$37.76	S.F.		20				0.00 %	0.00 %				\$0
B3010120	Single Ply Membrane	\$38.73	S.F.		20				0.00 %	0.00 %				\$0
B3010130	Preformed Metal Roofing	\$54.22	S.F.	500	30	1997	2027		40.00 %	0.00 %	12			\$27,110
B3010140	Shingle & Tile	\$38.73	S.F.	23,023	20	1997	2017	2020	25.00 %	0.00 %	5			\$891,681
B3020	Roof Openings	\$0.68	S.F.	23,523	20	1997	2017	2020	25.00 %	0.00 %	5			\$15,996
C1010	Partitions	\$14.93	S.F.	23,523	100	1997	2097		82.00 %	0.00 %	82			\$351,198
C1020	Interior Doors	\$3.76	S.F.	23,523	40	1997	2037		55.00 %	5.19 %	22		\$4,588.73	\$88,446
C1030	Fittings	\$4.12	S.F.	23,523	40	1997	2037		55.00 %	0.00 %	22			\$96,915
C2010	Stair Construction	\$1.28	S.F.	23,523	100	1997	2097		82.00 %	0.00 %	82			\$30,109

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System Code	System Description	Unit Price \$	UoM	Qty	Life	Year Installed	Calc Next Renewal Year	Next Renewal Year	RSLI%	FCI%	RSL	eCR	Deficiency \$	Replacement Value \$
C3010230	Paint & Covering	\$13.21	S.F.	23,523	10	1997	2007	2020	50.00 %	0.00 %	5			\$310,739
C3010231	Vinyl Wall Covering	\$0.97	S.F.	23,523	15				0.00 %	0.00 %				\$22,817
C3010232	Wall Tile	\$2.63	S.F.	23,523	30				0.00 %	0.00 %				\$61,865
C3020411	Carpet	\$7.30	S.F.	6,000	10	1997	2007	2027	120.00 %	0.00 %	12			\$43,800
C3020412	Terrazzo & Tile	\$75.52	S.F.	1,500	50	1997	2047		64.00 %	0.00 %	32			\$113,280
C3020413	Vinyl Flooring	\$9.68	S.F.	15,000	20	1997	2017	2023	40.00 %	2.07 %	8		\$3,004.38	\$145,200
C3020414	Wood Flooring	\$22.27	S.F.		25				0.00 %	0.00 %				\$0
C3020415	Concrete Floor Finishes	\$0.97	S.F.	1,023	50	1997	2047		64.00 %	0.00 %	32			\$992
C3030	Ceiling Finishes	\$20.97	S.F.	23,523	25	1997	2022		28.00 %	0.10 %	7		\$478.70	\$493,277
D2010	Plumbing Fixtures	\$31.58	S.F.	23,523	35	1997	2032		48.57 %	0.00 %	17			\$742,856
D2020	Domestic Water Distribution	\$2.90	S.F.	23,523	25	1997	2022		28.00 %	0.00 %	7			\$68,217
D2030	Sanitary Waste	\$2.90	S.F.	23,523	25	1997	2022		28.00 %	0.00 %	7			\$68,217
D2040	Rain Water Drainage	\$3.29	S.F.	23,523	30	1997	2027		40.00 %	0.00 %	12			\$77,391
D3020	Heat Generating Systems	\$18.67	S.F.	23,523	35	1997	2032		48.57 %	0.00 %	17			\$439,174
D3030	Cooling Generating Systems	\$24.48	S.F.	23,523	30	1997	2027		40.00 %	8.54 %	12		\$49,157.36	\$575,843
D3040	Distribution Systems	\$42.99	S.F.	23,523	25	1997	2022		28.00 %	0.00 %	7			\$1,011,254
D3050	Terminal & Package Units	\$11.60	S.F.	23,523	20	1997	2017	2027	60.00 %	0.00 %	12			\$272,867
D3060	Controls & Instrumentation	\$13.50	S.F.	23,523	20	1997	2017	2037	110.00 %	132.68 %	22		\$421,329.88	\$317,561
D4010	Sprinklers	\$8.02	S.F.	23,523	35	1997	2032		48.57 %	8.87 %	17		\$16,739.78	\$188,654
D4020	Standpipes	\$0.99	S.F.	23,523	35	1997	2032		48.57 %	0.00 %	17			\$23,288
D5010	Electrical Service/Distribution	\$9.70	S.F.	23,523	30	1997	2027	2027	40.00 %	0.00 %	12			\$228,173
D5020	Lighting and Branch Wiring	\$34.68	S.F.	23,523	20	1997	2017	2022	35.00 %	2.02 %	7		\$16,475.74	\$815,778
D5030	Communications and Security	\$12.99	S.F.	23,523	15	1997	2012	2027	80.00 %	93.15 %	12		\$284,620.54	\$305,564
D5090	Other Electrical Systems	\$1.41	S.F.	23,523	30	1997	2027	2027	40.00 %	0.00 %	12			\$33,167
E1020	Institutional Equipment	\$4.82	S.F.	23,523	35	1997	2032		48.57 %	0.00 %	17			\$113,381
E1090	Other Equipment	\$11.10	S.F.	23,523	35	1997	2032		48.57 %	0.00 %	17			\$261,105
E2010	Fixed Furnishings	\$2.13	S.F.	23,523	40	1997	2037		55.00 %	0.00 %	22			\$50,104
								Total	59.30 %	6.26 %			\$870,951.21	\$13,902,135

System Notes

The facility description in the site executive summary contains an overview of each system. The notes listed below provide additional information on select systems found within the facility.

System: C3010 - Wall Finishes This system contains no images

Note: paint 100%

System: C3020 - Floor Finishes This system contains no images

Note: concrete: 1,023 - 4%

carpet: 6,000 - 25% VCT: 15,000 - 65% CT: 1,500 - 6%

Renewal Schedule

eCOMET forecasts future Capital Renewal funding needed to address expiring systems based on the Next Renewal year found in the Cost Models. A 3% annual inflation factor is applied to the costs for systems expiring in future years. The table below reflects recommended Capital Renewal funding needs over the next 10 years. Note: Cells with a zero value indicate systems for which renewal is not scheduled in that year.

Inflation Rate: 3%

System	Current Deficiencies	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
Total:	\$870,951	\$0	\$0	\$0	\$0	\$1,553,725	\$0	\$3,376,775	\$202,329	\$0	\$0	\$6,003,780
* A - Substructure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
* A10 - Foundations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A1010 - Standard Foundations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A1030 - Slab on Grade	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
* A20 - Basement Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A2010 - Basement Excavation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
A2020 - Basement Walls	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B - Shell	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B10 - Superstructure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B1010 - Floor Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B1020 - Roof Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B20 - Exterior Enclosure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B2010 - Exterior Walls	\$16,648	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,648
B2020 - Exterior Windows	\$53,727	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$53,727
B2030 - Exterior Doors	\$4,181	\$0	\$0	\$0	\$0	\$0	\$0	\$53,145	\$0	\$0	\$0	\$57,326
B30 - Roofing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010 - Roof Coverings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010105 - Built-Up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010120 - Single Ply Membrane	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010130 - Preformed Metal Roofing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B3010140 - Shingle & Tile	\$0	\$0	\$0	\$0	\$0	\$1,137,073	\$0	\$0	\$0	\$0	\$0	\$1,137,073
B3020 - Roof Openings	\$0	\$0	\$0	\$0	\$0	\$20,397	\$0	\$0	\$0	\$0	\$0	\$20,397
C - Interiors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C10 - Interior Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C1010 - Partitions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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C1020 - Interior Doors	\$4,589	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,589
C1030 - Fittings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C20 - Stairs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C2010 - Stair Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C30 - Interior Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3010 - Wall Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3010230 - Paint & Covering	\$0	\$0	\$0	\$0	\$0	\$396,255	\$0	\$0	\$0	\$0	\$0	\$396,255
C3010231 - Vinyl Wall Covering	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3010232 - Wall Tile	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020 - Floor Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020411 - Carpet	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020412 - Terrazzo & Tile	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020413 - Vinyl Flooring	\$3,004	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$202,329	\$0	\$0	\$205,333
C3020414 - Wood Flooring	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3020415 - Concrete Floor Finishes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C3030 - Ceiling Finishes	\$479	\$0	\$0	\$0	\$0	\$0	\$0	\$667,336	\$0	\$0	\$0	\$667,814
D - Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D20 - Plumbing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D2010 - Plumbing Fixtures	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D2020 - Domestic Water Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$92,287	\$0	\$0	\$0	\$92,287
D2030 - Sanitary Waste	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$92,287	\$0	\$0	\$0	\$92,287
D2040 - Rain Water Drainage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D30 - HVAC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D3020 - Heat Generating Systems	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D3030 - Cooling Generating Systems	\$49,157	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$49,157
D3040 - Distribution Systems	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,368,086	\$0	\$0	\$0	\$1,368,086
D3050 - Terminal & Package Units	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D3060 - Controls & Instrumentation	\$421,330	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$421,330
D40 - Fire Protection	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D4010 - Sprinklers	\$16,740	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,740
D4020 - Standpipes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D50 - Electrical	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D5010 - Electrical Service/Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

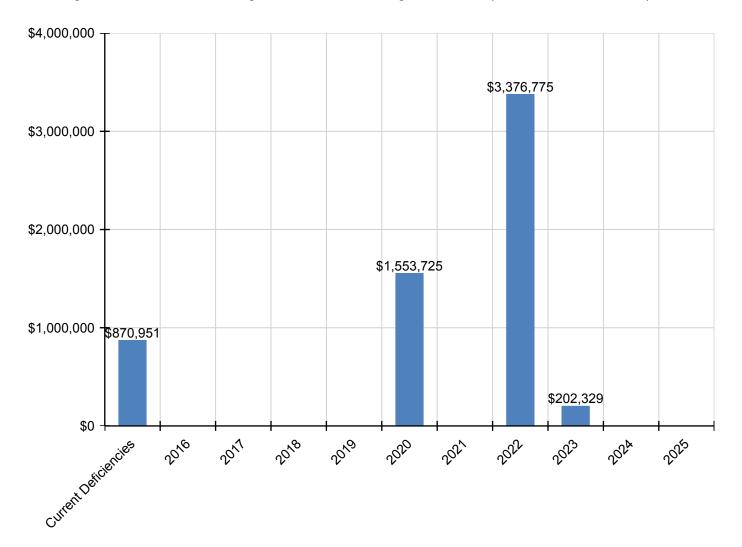
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D5020 - Lighting and Branch Wiring	\$16,476	\$0	\$0	\$0	\$0	\$0	\$0	\$1,103,633	\$0	\$0	\$0	\$1,120,109
D5030 - Communications and Security	\$284,621	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$284,621
D5090 - Other Electrical Systems	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E - Equipment & Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E10 - Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E1020 - Institutional Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E1090 - Other Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E20 - Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
E2010 - Fixed Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

^{*} Indicates non-renewable system

Forecasted Sustainment Requirement

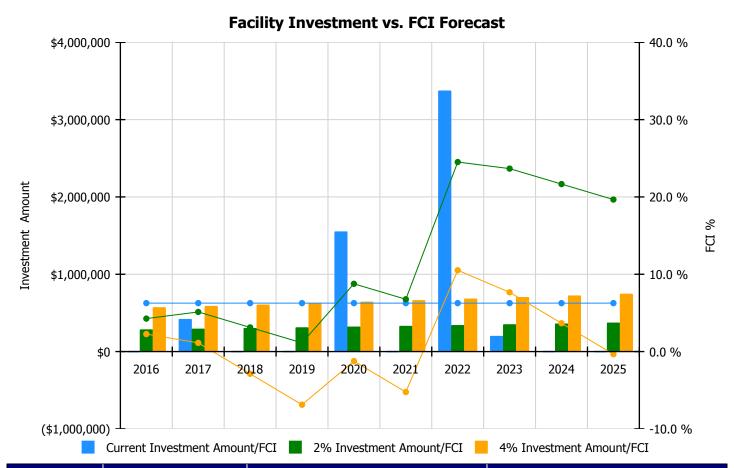
The following chart shows the current building deficiencies and forecasting sustainment requirements over the next ten years.



10 Year FCI Forecast by Investment Scenario

The chart below illustrates the effect of various investment levels on the building FCI for the next 10 years. The levels of investment shown below include:

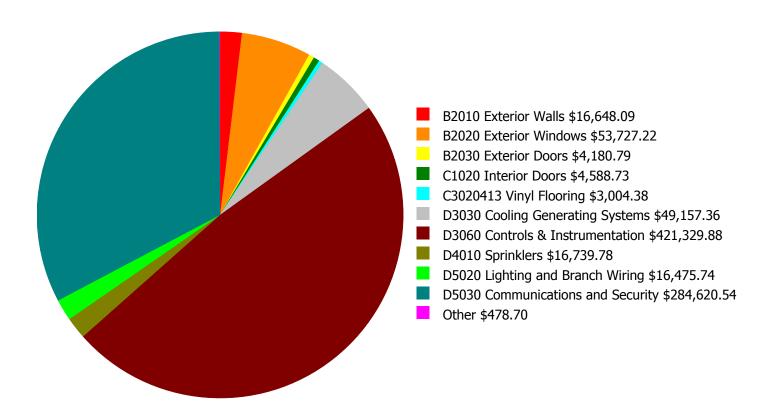
- Current FCI: a variable investment amount based on renewing expired systems to maintain the current FCI for the building
- 2% Investment: an annual investment of 2% of the replacement value of the building, escalated for inflation
- 4% Investment: an annual investment of 4% of the replacement value of the building, escalated for inflation



	Investment Amount	2% Investm	ent	4% Investment			
Year	Current FCI - 6.26%	Amount	FCI	Amount	FCI		
2016	\$0	\$286,384.00	4.26 %	\$572,768.00	2.26 %		
2017	\$421,705	\$294,976.00	5.12 %	\$589,951.00	1.12 %		
2018	\$0	\$303,825.00	3.12 %	\$607,650.00	-2.88 %		
2019	\$0	\$312,940.00	1.12 %	\$625,879.00	-6.88 %		
2020	\$1,553,725	\$322,328.00	8.76 %	\$644,655.00	-1.24 %		
2021	\$0	\$331,998.00	6.76 %	\$663,995.00	-5.24 %		
2022	\$3,376,775	\$341,957.00	24.51 %	\$683,915.00	10.51 %		
2023	\$202,329	\$352,216.00	23.66 %	\$704,432.00	7.66 %		
2024	\$0	\$362,783.00	21.66 %	\$725,565.00	3.66 %		
2025	\$0	\$373,666.00	19.66 %	\$747,332.00	-0.34 %		
Total:	\$5,554,533	\$3,283,073.00		\$6,566,142.00			

Deficiency Summary by System

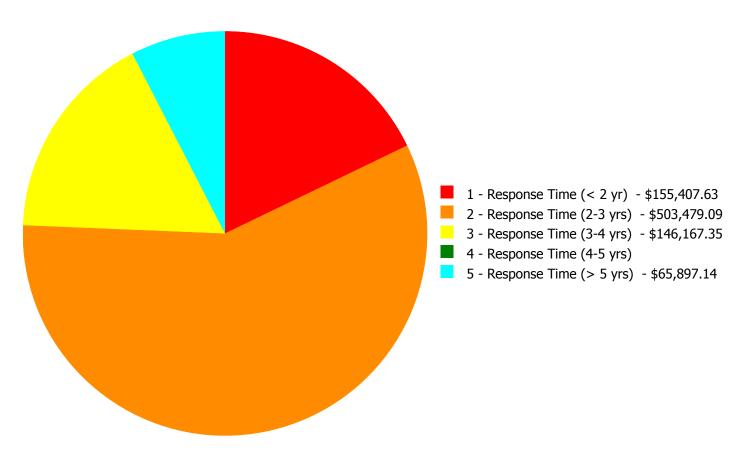
Current deficiencies included assemblies that have reached or exceeded their design life or components of the assemblies that are in need of repair. Assemblies that have reached their design life are identified as current deficiencies and assigned the distress 'Beyond Useful Life'. The following chart lists all current deficiencies associated with this facility.



Budget Estimate Total: \$870,951.21

Deficiency Summary by Priority

The following chart shows the total repair costs broken down by priority. Assessors assigned deficiencies within eCOMET to one of the following priority categories:



Budget Estimate Total: \$870,951.21

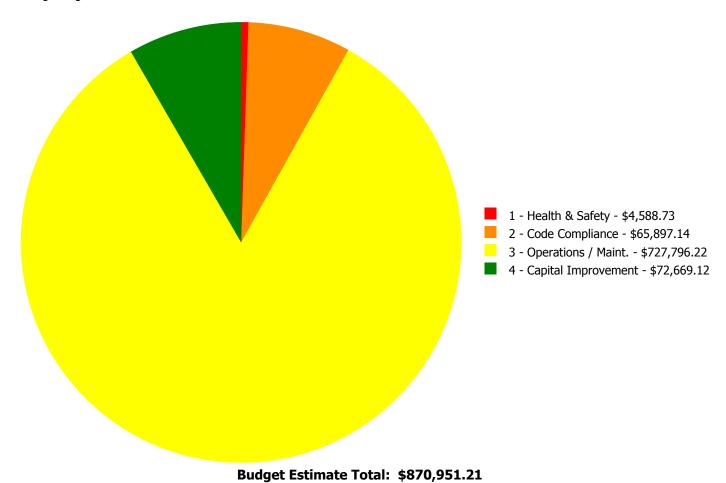
Deficiency By Priority Investment Table

The table below shows the current investment cost grouped by deficiency priority and building system.

System Code	System Description	1 - Response Time (< 2 yr)	2 - Response Time (2-3 yrs)	3 - Response Time (3-4 yrs)	4 - Response Time (4-5 yrs)	5 - Response Time (> 5 yrs)	Total
B2010	Exterior Walls	\$0.00	\$16,648.09	\$0.00	\$0.00	\$0.00	\$16,648.09
B2020	Exterior Windows	\$0.00	\$53,727.22	\$0.00	\$0.00	\$0.00	\$53,727.22
B2030	Exterior Doors	\$0.00	\$4,180.79	\$0.00	\$0.00	\$0.00	\$4,180.79
C1020	Interior Doors	\$0.00	\$4,588.73	\$0.00	\$0.00	\$0.00	\$4,588.73
C3020413	Vinyl Flooring	\$0.00	\$3,004.38	\$0.00	\$0.00	\$0.00	\$3,004.38
C3030	Ceiling Finishes	\$0.00	\$0.00	\$478.70	\$0.00	\$0.00	\$478.70
D3030	Cooling Generating Systems	\$0.00	\$0.00	\$0.00	\$0.00	\$49,157.36	\$49,157.36
D3060	Controls & Instrumentation	\$0.00	\$421,329.88	\$0.00	\$0.00	\$0.00	\$421,329.88
D4010	Sprinklers	\$0.00	\$0.00	\$0.00	\$0.00	\$16,739.78	\$16,739.78
D5020	Lighting and Branch Wiring	\$16,475.74	\$0.00	\$0.00	\$0.00	\$0.00	\$16,475.74
D5030	Communications and Security	\$138,931.89	\$0.00	\$145,688.65	\$0.00	\$0.00	\$284,620.54
	Total:	\$155,407.63	\$503,479.09	\$146,167.35	\$0.00	\$65,897.14	\$870,951.21

Deficiency Summary by Category

The following chart shows the total repair costs broken down by deficiency categories. Assessors assigned deficiencies to one of the following categories:



Deficiency Details by Priority

The deficiency detail notes listed below provide additional information on identified deficiencies found within the facility.

Priority 1 - Response Time (< 2 yr):

System: D5020 - Lighting and Branch Wiring



Location: LSH - Classrooms

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 1 - Response Time (< 2 yr)

Correction: Replace Wiring Device

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$16,475.74

Assessor Name: Craig Anding

Date Created: 08/13/2015

Notes: Replace existing receptacles with GFCI receptacle in the areas subject to kid access. Estimated 100 each.

System: D5030 - Communications and Security

This deficiency has no image.

Location: LSH - Entire Building

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Add/Replace Clock System or Components

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$82,738.51

Assessor Name: Craig Anding

Date Created: 08/13/2015

Notes: Replace existing master clock system.

System: D5030 - Communications and Security



Location: LSH - Exterior Building

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 1 - Response Time (< 2 yr)

Correction: Add/Replace Video Surveillance System

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$56,193.38

Assessor Name: Craig Anding

Date Created: 08/13/2015

Notes: Provide sufficient number of cameras on LSH exterior wall and connect them to main building CCTV system. Estimated 3each.

Priority 2 - Response Time (2-3 yrs):

System: B2010 - Exterior Walls



Location: LSH - Godfrey St entrance

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Rebuild brick parapets at original building roof

perimeter; re-set stone coping - change qty. for

LF of coping if necessary

Qty: 100.00

Unit of Measure: S.F.

Estimate: \$16,648.09

Assessor Name: Craig Anding

Date Created: 09/03/2015

Notes: Repair brick posts and building corner at Godfrey St entrance (200sf)

System: B2020 - Exterior Windows



Location: LSH - exterior windows

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Replace security screens

Qty: 350.00

Unit of Measure: S.F.

Estimate: \$53,727.22

Assessor Name: Craig Anding

Date Created: 09/03/2015

Notes: Replace security screens (oxidized frames) - 12 4x8 screens

System: B2030 - Exterior Doors



Location: LSH - exterior

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Refinish and repaint exterior doors - per leaf

Qty: 7.00

Unit of Measure: Ea.

Estimate: \$4,180.79

Assessor Name: Craig Anding

Date Created: 09/03/2015

Notes: Repaint exterior doors and graffiti clerestory (5) 3x7 + 100sf (clerestory, similar to 2 doors in size)

System: C1020 - Interior Doors



Location: LSH - all classrooms and office doors

Distress: Security Issue

Category: 1 - Health & Safety

Priority: 2 - Response Time (2-3 yrs)

Correction: Provide security hardware for classroom and

office doors

Qty: 20.00

Unit of Measure: Ea.

Estimate: \$4,588.73

Assessor Name: Craig Anding

Date Created: 09/03/2015

Notes: Provide security hardware for classrooms and offices (20 sets)

System: C3020413 - Vinyl Flooring



Priority: 2 - Response Time (2-3 yrs)

Location: LSH - corridors and multipurpose rm

Correction: Remove and replace VCT

Damaged

Category: 3 - Operations / Maint.

Qty: 250.00

Unit of Measure: S.F.

Distress:

Estimate: \$3,004.38

Assessor Name: Craig Anding

Date Created: 09/03/2015

Notes: Repair cracks in VCT (200lf)

System: D3060 - Controls & Instrumentation



Location: LSH - Throughout the building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Replace pneumatic controls with DDC (150KSF)

Qty: 23,523.00

Unit of Measure: S.F.

Estimate: \$421,329.88

Assessor Name: Craig Anding

Date Created: 10/12/2015

Notes: Install a new DDC system, re-commission, and provide training for maintenance personnel.

Priority 3 - Response Time (3-4 yrs):

System: C3030 - Ceiling Finishes



Location: LSH - clerestory interior

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 3 - Response Time (3-4 yrs)

Correction: Re-paint ceilings - SF of ceilings

Qty: 100.00

Unit of Measure: S.F.

Estimate: \$478.70

Assessor Name: Craig Anding

Date Created: 09/03/2015

Notes: Repair Gyp bd under clerestory that had leaked (100sf)

System: D5030 - Communications and Security



Notes: Replace existing fire alarm system of the building.

Location: LSH - Entire Building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 3 - Response Time (3-4 yrs)

Correction: Replace fire alarm system

Qty: 1.00

Unit of Measure: S.F.

Estimate: \$145,688.65

Assessor Name: Craig Anding

Date Created: 08/13/2015

Priority 5 - Response Time (> 5 yrs):

System: D3030 - Cooling Generating Systems

This deficiency has no image. LSH - mechanical area

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 5 - Response Time (> 5 yrs)

Correction: Convert air-cooled chiller to alternative

refrigerant (80T)

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$49,157.36

Assessor Name: Craig Anding

Date Created: 10/12/2015

Notes: Convert the chiller over to a new refrigerant or replace with a new air cooled chiller.

System: D4010 - Sprinklers



Location: LSH - Kitchen

Distress: Building / MEP Codes

Category: 2 - Code Compliance

Priority: 5 - Response Time (> 5 yrs)

Correction: Provide kitchen hood fire suppression system (8

FT)

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$16,739.78

Assessor Name: Craig Anding

Date Created: 10/12/2015

Notes: Install chemical sprinkler system for kitchen hood.

Equipment Inventory

The following table represents the inventory details of the inventory found in the building, which fall under the following subsystems:

Subsystem	Inventory	Qty	UoM	Location	Manufacturer	Model Number	Serial Number	Barcode	Life	Install Date	Next Renewal	Raw Cost	Inventory Cost
D3020 Heat Generating Systems	Boiler, gas/oil combination, cast iron, steam, gross output, 1084 MBH, includes burners, controls and insulated jacket, packaged	2.00		Boiler Mechanical Equipment Room	Burnham	V1106W			35	1997	2032	\$29,823.90	\$65,612.58
D3020 Heat Generating Systems	Boiler, gas/oil combination, cast iron, steam, gross output, 1084 MBH, includes burners, controls and insulated jacket, packaged	2.00	-	Boiler Mechanical Equipment Room	Burnham	V1106W			35	1997	2032	\$29,823.90	\$65,612.58
D3030 Cooling Generating Systems	Water chiller, reciprocating, packaged, air cooled, 85 ton cooling, includes standard controls, excludes remote air cooled condensers	1.00	Ea.		Carrier	30GN-080			30	1997	2027	\$66,495.00	\$73,144.50
D5010 Electrical Service/Distribution	Switchgear installation, incl switchboard, panels & circuit breaker, 120/208 V, 800 A	1.00	Ea.	Electrical Room					30	1997	2027	\$21,766.05	\$23,942.66
												Total:	\$228,312.32

Executive Summary

Building condition is evaluated based on the functional systems and elements of a building and organized according to the UNIFORMAT II Elemental Classification. The grouping of these systems and elements and applying a current replacement value to them develops a representative building cost model. Cost Models are developed for similar building types and functions. Systems and their elements are evaluated based on their current replacement values, life cycles, installation dates and next renewal dates. Systems and their elements that are within their useful lives are further evaluated to identify current deficient conditions that may have a significant impact on a system's or element's remaining service life, and to determine if they are beyond their predicted expected life. The system's or element's current replacement value is based on RS Means Commercial Cost Data.

Following are the cost model's system details for this facility. The Replacement Value is the amount needed to replace the property of the same present value. The Current Repair Amount, also known as Condition Needs, represents the budgeted contractor installed costs plus owner's soft costs for the repair, replacement or renewal for a component or system level deficiency. It excludes contributing costs for other components or systems that might also be associated with the corrective actions due to packaging the work. Facility Condition Index (FCI) FCI is an industry-standard measurement of facility condition calculated as the ratio of the costs to correct a facility's deficiencies to the facility's Current Replacement Value. It ranges from 0% (new) to 100% (very poor). Condition Index (CI) is calculated as the sum of a renewable system's Remaining Service Life (RSL) divided by the sum of a system's Replacement Value (both values exclude soft-cost to simplify calculation updates) expressed as a percentage ranging from 100% (new) to 0% (expired).

Function:

Gross Area (SF): 117,600

Year Built: 1930

Last Renovation:

Replacement Value: \$2,566,176

Repair Cost: \$256,995.50

Total FCI: 10.01 %

Total RSLI: 41.66 %



Description:

Attributes:

General Attributes:

Bldg ID: S727001 Site ID: S727001

Condition Summary

The Table below shows the CI and FCI for each major building system shown at the UNIFORMAT classification Level II. Note that Systems with lower FCIs require less investment than systems with higher FCIs.

UNIFORMAT Classification	RSLI %	FCI %	Current Repair Cost
G20 - Site Improvements	42.07 %	12.51 %	\$256,995.50
G40 - Site Electrical Utilities	40.00 %	0.00 %	\$0.00
Totals:	41.66 %	10.01 %	\$256,995.50

Condition Detail

This section of the report contains results of the Facility Condition Assessment. The building is separated into system components based on UNIFORMAT II classification. The columns in the System Listing table below represent the following:

- 1. System Code: A code that identifies the system.
- 2. System Description: A brief description of a system present in the building.
- 3. Unit Price \$: The unit price of the system.
- 4. UoM: The unit of measure for of the system.
- 5. Qty: The quantity for the system
- 6. Life: anticipated service life for the system based on Building Owners and Managers Association (BOMA) recommendations.
- 7. Year Installed: The date of system installation.
- 8. Calc Next Renewal Year: The date of system expiration based on the life, NR stands for non renewable.
- 9. Next Renewal Year: The suggested system expiration date by the assessor based on visual inspection.
- 10. CI: The Condition Index of the system.
- 11. FCI: The Facility Condition Index of the system.
- 12. RSL: Remaining Service Life.
- 13. eCR: eCOMET Condition Rating (not used).
- 14. Deficiency \$: The financial investment to repair/replace system.

System Listing

The System Listing table below lists each of the systems organized by their UNIFORMAT II classification. The assessment team was tasked with recording the most recent replacement year of each system, determining the remaining service life based on the theoretical life, and evaluating the condition to confirm the forecast next replacement year. The system listing is the basis for all data contained in the Building Assessment Report.

Additionally, a condition rating (eCR) based on the following guidelines is provided as observed at the time of the assessment.

- Excellent (E) No noticeable distress or damage. The entire system is free from observable defect.
- Very Good (VG) Overall no serviceability reduction for the entire system. No degradation of critical components and minor distress and defect noticeable for some but not non critical components within the system.
- Good (G) Slight or no serviceability reduction for the entire system. There may be noticeable defects for some non critical components and slight noticeable degradation of the critical components.
- Fair (F) Overall serviceability is degraded but adequate. There may be moderate deterioration for very few of the critical components and few of the non critical components may have severe degradation.
- Marginal (MA) Overall serviceability and reliability loss. Most if not all of the non critical components suffer from severe degradation and a few of the critical component may have severe degradation.
- Moderate (MO) Overall a significant serviceability loss. Most if not all the components have severe degradation with the reminder of the component showing visible distress.
- Very Poor (VP) Overall the system is barely functional. All of the components are severely degraded.
- Non-Functional (NF) Overall the system does not function with all the components having no serviceability and suffer from severe degradation.

System						Year	Calc Next Renewal	Next Renewal						Replacement
Code	System Description	Unit Price \$	UoM	Qty	Life	Installed	Year	Year	RSLI%	FCI%	RSL	eCR	Deficiency \$	Value \$
G2010	Roadways	\$11.52	S.F.	10,000	30	1997	2027		40.00 %	0.00 %	12			\$115,200
G2020	Parking Lots	\$7.65	S.F.	60,000	30	1997	2027		40.00 %	37.35 %	12		\$171,430.39	\$459,000
G2030	Pedestrian Paving	\$11.52	S.F.	84,000	40	1997	2037		55.00 %	5.13 %	22		\$49,672.08	\$967,680
G2040	Site Development	\$4.36	S.F.	117,600	25	1954	1979	2020	20.00 %	7.00 %	5		\$35,893.03	\$512,736
G2050	Landscaping & Irrigation	\$3.78	S.F.		15				0.00 %	0.00 %				\$0
G4020	Site Lighting	\$3.58	S.F.	117,600	30	1954	1984	2027	40.00 %	0.00 %	12			\$421,008
G4030	Site Communications & Security	\$0.77	S.F.	117,600	30	1954	1984	2027	40.00 %	0.00 %	12		·	\$90,552
								Total	41.66 %	10.01 %			\$256,995.50	\$2,566,176

System Notes

The facility description in the site executive summary contains an overview of each system. The notes listed below provide additional information on select systems found within the facility.

No data found for this asset

Renewal Schedule

eCOMET forecasts future Capital Renewal funding needed to address expiring systems based on the Next Renewal year found in the Cost Models. A 3% annual inflation factor is applied to the costs for systems expiring in future years. The table below reflects recommended Capital Renewal funding needs over the next 10 years. Note: Cells with a zero value indicate systems for which renewal is not scheduled in that year.

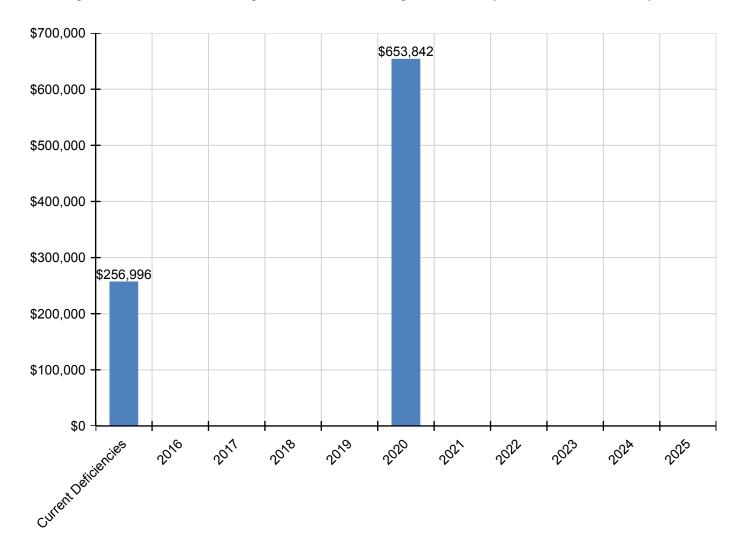
Inflation Rate: 3%

System	Current Deficiencies	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
Total:	\$256,996	\$0	\$0	\$0	\$0	\$653,842	\$0	\$0	\$0	\$0	\$0	\$910,838
G - Building Sitework	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G20 - Site Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G2010 - Roadways	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G2020 - Parking Lots	\$171,430	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$171,430
G2030 - Pedestrian Paving	\$49,672	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$49,672
G2040 - Site Development	\$35,893	\$0	\$0	\$0	\$0	\$653,842	\$0	\$0	\$0	\$0	\$0	\$689,735
G2050 - Landscaping & Irrigation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G40 - Site Electrical Utilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G4020 - Site Lighting	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
G4030 - Site Communications & Security	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

^{*} Indicates non-renewable system

Forecasted Sustainment Requirement

The following chart shows the current building deficiencies and forecasting sustainment requirements over the next ten years.



10 Year FCI Forecast by Investment Scenario

The chart below illustrates the effect of various investment levels on the building FCI for the next 10 years. The levels of investment shown below include:

- · Current FCI: a variable investment amount based on renewing expired systems to maintain the current FCI for the building
- 2% Investment: an annual investment of 2% of the replacement value of the building, escalated for inflation
- 4% Investment: an annual investment of 4% of the replacement value of the building, escalated for inflation

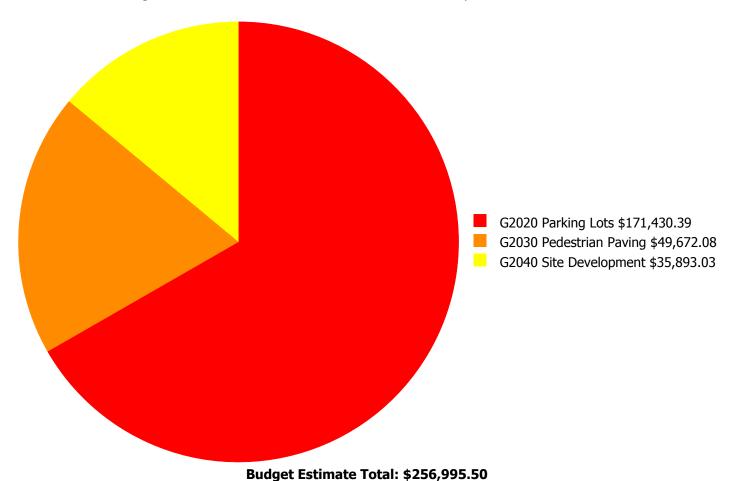
Facility Investment vs. FCI Forecast



	Investment Amount	2% Investm	ent	4% Investment			
Year	Current FCI - 10.01%	Amount	FCI	Amount	FCI		
2016	\$0	\$52,863.00	8.01 %	\$105,726.00	6.01 %		
2017	\$0	\$54,449.00	6.01 %	\$108,898.00	2.01 %		
2018	\$0	\$56,083.00	4.01 %	\$112,165.00	-1.99 %		
2019	\$0	\$57,765.00	2.01 %	\$115,530.00	-5.99 %		
2020	\$653,842	\$59,498.00	21.99 %	\$118,996.00	11.99 %		
2021	\$0	\$61,283.00	19.99 %	\$122,566.00	7.99 %		
2022	\$0	\$63,121.00	17.99 %	\$126,243.00	3.99 %		
2023	\$0	\$65,015.00	15.99 %	\$130,030.00	-0.01 %		
2024	\$0	\$66,966.00	13.99 %	\$133,931.00	-4.01 %		
2025	\$0	\$68,975.00	11.99 %	\$137,949.00	-8.01 %		
Total:	\$653,842	\$606,018.00		\$1,212,034.00			

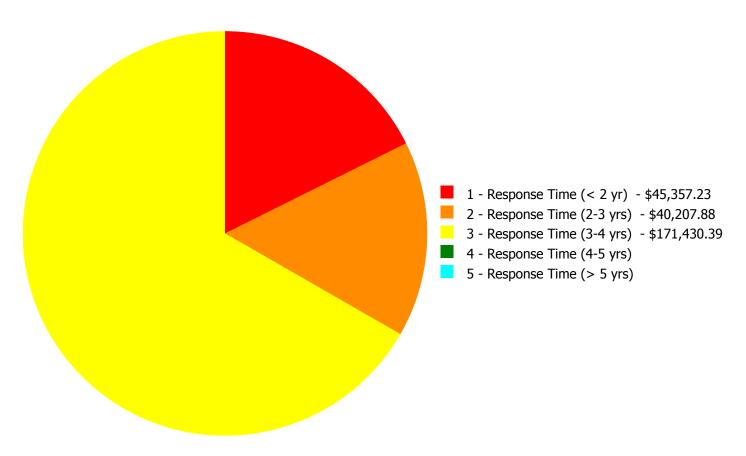
Deficiency Summary by System

Current deficiencies included assemblies that have reached or exceeded their design life or components of the assemblies that are in need of repair. Assemblies that have reached their design life are identified as current deficiencies and assigned the distress 'Beyond Useful Life'. The following chart lists all current deficiencies associated with this facility.



Deficiency Summary by Priority

The following chart shows the total repair costs broken down by priority. Assessors assigned deficiencies within eCOMET to one of the following priority categories:



Budget Estimate Total: \$256,995.50

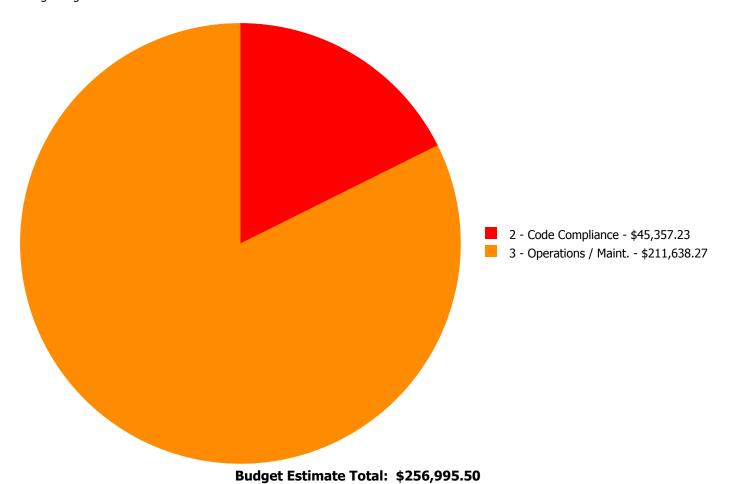
Deficiency By Priority Investment Table

The table below shows the current investment cost grouped by deficiency priority and building system.

System Code	System Description		2 - Response Time (2-3 yrs)			5 - Response Time (> 5 yrs)	Total
G2020	Parking Lots	\$0.00	\$0.00	\$171,430.39	\$0.00	\$0.00	\$171,430.39
G2030	Pedestrian Paving	\$45,357.23	\$4,314.85	\$0.00	\$0.00	\$0.00	\$49,672.08
G2040	Site Development	\$0.00	\$35,893.03	\$0.00	\$0.00	\$0.00	\$35,893.03
	Total:	\$45,357.23	\$40,207.88	\$171,430.39	\$0.00	\$0.00	\$256,995.50

Deficiency Summary by Category

The following chart shows the total repair costs broken down by deficiency categories. Assessors assigned deficiencies to one of the following categories:



Deficiency Details by Priority

The deficiency detail notes listed below provide additional information on identified deficiencies found within the facility.

Priority 1 - Response Time (< 2 yr):

System: G2030 - Pedestrian Paving

This deficiency has no image. **Location:** front entrance

Distress: Accessibility

Category: 2 - Code Compliance

Priority: 1 - Response Time (< 2 yr)

Correction: Install an exterior ADA ramp - based on 5' wide

by the linear foot - up to a 48" rise - per LF of

ramp - figure 1 LF per inch of rise

Qty: 40.00

Unit of Measure: L.F.

Estimate: \$45,357.23

Assessor Name: Craig Anding

Date Created: 09/03/2015

Notes: Add handicap ramp to front door (up 30") including railings

Priority 2 - Response Time (2-3 yrs):

System: G2030 - Pedestrian Paving



Location: Front Street (front door)

Distress: Damaged

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Remove and replace concrete sidewalk or

concrete paving - 4" concrete thickness

Qty: 300.00

Unit of Measure: S.F.

Estimate: \$4,314.85

Assessor Name: Craig Anding

Date Created: 09/04/2015

Notes: Repave cracking concrete sidewalk panels in front of the building (300sf)

System: G2040 - Site Development



Notes: Repaint damaged wrought iron fencing (500lf)

Location: site fence

Distress: Appearance

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Paint steel picket fence - LF of fence 6' high

Qty: 500.00

Unit of Measure: L.F.

Estimate: \$32,630.03

Assessor Name: Craig Anding

Date Created: 09/03/2015

System: G2040 - Site Development



Location: low roof over boiler room

Distress: Appearance

Category: 3 - Operations / Maint.

Priority: 2 - Response Time (2-3 yrs)

Correction: Paint steel picket fence - LF of fence 6' high

Qty: 50.00

Unit of Measure: L.F.

Estimate: \$3,263.00

Assessor Name: Craig Anding

Date Created: 09/03/2015

Notes: Replace rusted rooftop security railing and railing at window wells(500sf)

Priority 3 - Response Time (3-4 yrs):

System: G2020 - Parking Lots



Location: parking lot / playground

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

Priority: 3 - Response Time (3-4 yrs)

Correction: Resurface parking lot - grind and resurface

including striping

Qty: 45,000.00

Unit of Measure: S.F.

Estimate: \$171,430.39

Assessor Name: Craig Anding

Date Created: 09/03/2015

Notes: Repave parking / playground with asphalt(45,000sf)

Equipment Inventory

The following table represents the inventory details of the inventory found in the building, which fall under the following subsystems:

No data found for this asset

Glossary

ABMA American Boiler Manufacturers Association http://www.abma.com/

ACEEE American Council for an Energy-Efficient Economy

ACGIH American Council of Governmental and Industrial Hygienists

AEE Association of Energy Engineers

AFD Adjustable Frequency Drive

AFTC After Tax Cash Flow

AGA American Gas Association

AHU Air Handling Unit

Amp Ampere

ANSI American National Standards Institute

ARI Air Conditioning and Refrigeration Institute

ASD Adjustable Speed Drive

ASHRAE American Society of Heating Refrigerating and Air-Conditioning Engineers Inc.

ASME American Society of Mechanical Engineers

Assessment Visual survey of a facility to determine its condition. It involves looking at the age of systems

reviewing information from local sources and visual evidence of potential problems to assign a condition rating. It does not include destructive testing of materials or testing of systems or

equipment for functionality.

ATS After Tax Savings

AW Annual worth

BACNET Building Automation Control Network

BAS Building Automation System

BCR Benefit Cost Ratio

BEP Business Energy Professional (AEE)

BF Ballast Factor

BHP Boiler Horsepower (boilers)

BHP Brake Horsepower (motors)

BLCC Building Life Cycle Cost analysis program (FEMP)

BOCA Building Officials and Code Administrators

BTCF Before Tax Cash Flow

BTS Before Tax Savings

Btu British thermal unit

Building Addition An area space or component of a building added to a building after the original building's year

built date.

CAA Clean Air Act

CAAA-90 Clean Air Act Amendments of 1990

CABO Council of American Building Officials

CAC Conventional Air Conditioning

CADDET Center for the Analysis and Dissemination of Demonstrated Energy Technologies

Calculated Next Renewal The year a system or element would be expected to expire based solely on the date it was

installed and the expected useful lifetime for that kind of system.

Capital Renewal Capital renewal is condition work (excluding suitability and energy audit work) that includes the

replacement of building systems or elements (as they become obsolete or beyond their useful life) not normally included in an annual operating budget. Calculated next renewal The year a system or element would be expected to expire based solely on the date it was installed and the expected useful lifetime for that kind of system. Next renewal The assessor adjusted expected useful life

of a system or element based on on-site inspection.

CDD Cooling Degree Days

CDGP Certified Distributed Generation Professional

CEC California Energy Commission

CEM Certified Energy Manager

CEP Certified Energy Procurement Professional

CFC Chlorofluorocarbon

CFD Cash Flow Diagram

CFL Compact Fluorescent Light

CFM cfm Cubic Feet per Minute

CHP Combined Heat and Power (a.k.a. cogeneration)

CHW Chilled Water

Condition Condition refers to the state of physical fitness or readiness of a facility system or system element

for its intended use.

COP Coefficient of Performance

Cp Heat Capacity of Material

CPUC California Public Utility Commission

CRI Color Rendering Index

CRT Cathode Ray Tube VDT HMI

CTC Competitive Transition Charge

Cu Coefficient of Utilization

Current Replacement

Value (CRV)

CRV represents the hypothetical total cost of rebuilding or replacing an existing facility in current dollars to its optimal condition (excluding auxiliary facilities) under current codes and construction

standards.

Cv Value Coefficient

CWS Chilled Water System

D d Distance (usually feet)

DB Dry Bulb

DCV Demand Control Ventilation

DD Degree Day

DDB Double Declining Balance

DDC Direct Digital Controls

Deferred maintenance Deferred maintenance is condition work (excluding suitability and energy audit needs) deferred on

a planned or unplanned basis to a future budget cycle or postponed until funds are available.

Deficiency A deficiency is a repair item that is damaged missing inadequate or insufficient for an intended

purpose.

Delta Difference

Delta P Pressure Difference

Delta T Temperature Difference

DG Distributed Generation

DOE Department of Energy

DP Dew Point

DR Demand Response

DX Direct Expansion Air Conditioner

EA Energy Audit

EBITDA Earnings before Interest Taxes Depreciation and Amortization

ECI Energy Cost Index

ECM Energy Conservation Measure

ECO Energy Conservation Opportunity

ECPA Energy Conservation and Production Act

ECR Energy Conservation Recommendation

ECS Energy Control System

EER Energy Efficiency Ratio

EERE Energy Efficiency and Renewable Energy division of US DOE

EIA Energy Information Agency

EIS Energy Information System

EMCS Energy Management Computer System

EMO Energy Management Opportunity

EMP Energy Management Project

EMR Energy Management Recommendation

EMS Energy Management System

Energy Utilization Index

(EUI)

EUI is the measure of total energy consumed in the cooling or heating of a building in a period

expressed as British thermal unit (BTU) per (cooled or heated) gross square foot.

EO Executive Order

EPA Environmental Protection Agency

EPACT Energy Policy Act of 1992

EPCA Energy Production and Conservation Act of 1975

EPRI Electric Power Research Institute

EREN Efficiency and Renewable Energy (Division of USDOE)

ERV Energy Recovery Ventilator

ESCO Energy Service Company

ESPC Energy Savings Performance Contract

EUI Energy Use Index

EWG Exempt Wholesale Generators

Extended Facility
Condition Index (EFCI)

EFCI is calculated as the condition needs for the current year plus facility system renewal needs

going out to a set time in the future divided by Current Replacement Value.

f Frequency

⁼ Fahrenheit

Facility A facility refers to site(s) building(s) or building addition(s) or combinations thereof that provide a

particular service.

Facility Condition Assessment (FCA) FCA is a process for evaluating the condition of buildings and facilities for programming and

budgetary purposes through an on site inspection and evaluation process.

Facility Condition Index

(FCI)

FCI is an industry-standard measurement of a facility's condition that is the ratio of the cost to correct a facility's deficiencies to the Current Replacement Value of the facilities. The higher the

FCI the poorer the condition of a facility. After an FCI is established for all buildings within a portfolio a building's condition can be ranked relative to other buildings. The FCI may also represent the condition of a portfolio based on the cumulative FCIs of the portfolio's facilities.

FC Footcandle

FCA Fuel Cost Adjustment

FEMIA Federal Energy Management Improvement Act of 1988

FEMP Federal Energy Management Program

FERC Federal Energy Regulatory Commission

FESR Fuel Energy Savings Ratio

FLA Full Load Amps

FLF Facility Load Factor (usually monthly)

FLRPM Full Load Revolutions per Minute

FMS Facility Management System

FPM fpm Feet per Minute (velocity)

FSEC Florida Solar Energy Center

Ft Foot

GPM gpm Gallons per Minute

GRI Gas Research Institute

Gross Square Feet (GSF) The size of the enclosed floor space of a building in square feet measured to the outside face of

the enclosing wall.

GUI Graphical User Interface

H h Enthalpy Btu/lb

HCFC Hydrochlorofluorocarbons

HDD Heating Degree days

HFC Hydrofluorocarbons

HHV Higher Heating Value

HID High Intensity Discharge (lamp)

HMI Human Machine Interface

HMMI Human Man Machine Interface

HO High Output (lamp)

HP Hp hp Horsepower

HPS High Pressure Sodium (lamp)

HR Humidity Ratio

Hr hr Hour

HRU Heat Recovery Unit

HVAC Heating Ventilation and Air-Conditioning

Hz Hertz

I Intensity (lumen output of lamp)

I i Interest rate or Discount rate

IAQ Indoor Air Quality

ICA International Cogeneration Alliance

ICBO International Conference of Buildings Officials

ICC International Code Council

ICP Institutional Conservation Program

IECC International Energy Conservation Code

IEEE Institute of Electrical and Electronic Engineers

IESNA Illuminating Engineering Society of North America

Install year The year a building or system was built or the most recent major renovation date (where a

minimum of 70 of the system?s Current Replacement Value (CRV) was replaced).

IRP Integrated Resource Planning

IRR Internal Rate of Return

ISO Independent System Operator

ITA Independent Tariff Administrator

k Kilo multiple of thousands in SI system

K Kelvins (color temperature of lamp)

K k Thermal Conductivity of Material

KVA Kilovolt Ampere

KVAR Kilovolt Ampere Reactive

kW kiloWatt

kWh kiloWatt hour

Length (usually feet)

LCC Life Cycle Costing

LDC Local Distribution Company

LEED Leadership in Energy and Environmental Design

LEED EB LEED for Existing Buildings

LEED NC LEED for new construction

LF Load Factor

LHV Lower Heating Value

Life cycle The period of time that a building or site system or element can be expected to adequately serve

its intended function.

LPS Low Pressure Sodium (lamp)

Lumen Output of a Lamp or Fixture

M Mega multiple of millions in SI system

M&V Measurement and Verification

MACRS Modified Accelerated Cost Recovery System

MARR Minimum Attractive Rate of Return

Mbtu Thousand Btu

MCF Thousand Cubic Feet (usually of gas)

MEC Model Energy Code

Mm Multiple of Thousands in I/P System

MMBtu Million Btu

MMCS Maintenance Management Computer System

MMI Man Machine Interface

MMS Maintenance Management System

MSE 2000 Management System for Energy 2000 (ANSI Georgia Tech Univ)

MW MegaWatt

MWH MWh MegaWatt hour

NAAQS National Ambient Air Quality Standards

NAESCO National Association of Energy Service Companies

NAIMA North American Insulation Manufacturers Association

NEA National Energy Act of 1978

NECPA National Energy Conservation Policy Act

NEMA National Electrical Manufacturer's Association

NERC North American Electric Reliability Council

Next Renewal The Next Renewal date is an override of the 'Calculated Next Renewal' date and is based upon the

assessor?s visual inspection.

NFPA National Fire Protection Association

NGPA National Gas Policy Act of 1978

NLRPM No Load Revolutions per Minute (speed)

Nn Equipment or Project lifetime in economic analysis

NOPR Notice of Proposed Rule Making from FERC

NOx Nitrogen Oxide Compounds

NPV Net present value in economic analysis

NREL National Renewable Energy Laboratory

NUG Non-Utility Generator

O&M Operation and Maintenance

OA Outside Air

ODP Ozone Depletion Potential

OPAC Off-Peak Air Conditioning

P Present value in economic analysis

PBR Performance Based Rates

PEA Preliminary Energy Audit

PF Power Factor

PID Proportional plus integral plus derivative (control system)

PM Portfolio Manager in Energy Star rating system

PM Preventive Maintenance

PoolCo Power Pool Company or Organization

POU Point of Use

PQ Power Quality

PSC Public Service Commission

PSIA psia Pounds per square inch absolute (pressure)

PSIG psig Pounds per square inch gauge (pressure)

PUC Public Utility Commission

PUHCA Public Utilities Holding Company Act of 1935

PURPA Public Utilities Regulatory Policies of 1978

PV Photovotaic system

PV Present Value

PW Present Worth

PX Power Exchange

q Rate of heat flow in Btu per hour

Q Heat load due to conduction using degree days

QF Qualifying Facility

R Electrical resistance

R Thermal Resistance

RC Remote controller

RCR Room Cavity Ratio

RCRA Resource Conservation and Recovery Act

Remaining Service Life

(RSL)

RSL is the number of years service remaining for a system or equipment item. It is automatically calculated based on the difference between the current year and the 'Calculated Next Renewal'

date or the 'Next Renewal' date whichever one is the later date.

Remaining Service Life

Index (RSLI)

RSLI is defined as a percentage ratio of the remaining service life of a system. It usually ranges

from 0 to 100

REMR Repair Evaluation Maintenance Rehabilitation (REMR) is a scale used to objectively rank systems

based on their condition

Renewal Schedule A timeline that provides the items that need repair the year in which the repair is needed and the

estimated price of the renewal.

RH Relative Humidity

RLA Running Load Amps

RMS Root Mean Square

RO Reverse Osmosis

ROI Return on Investment

RPM Revolutions Per Minute

RTG Regional Transmission Group

RTO Regional Transmission Organization

RTP Real Time Pricing

SBCCI Southern Building Code Congress International

SC Scheduling Coordinator

SC Shading Coefficient

SCADA Supervisory Control and Data Acquisition Systems

SEER Seasonal Energy Efficiency Ratio

SHR Sensible Heat Ratio

Site The grounds and utilities roadways landscaping fencing and other typical land improvements

needed to support the facility.

Soft Cost An expense item that is not considered direct construction cost. Soft cost includes architectural

engineering financing legal fees and other pre-and-post construction expenses.

SOx Sulfur Oxide Compounds

SP Static Pressure

SP SPB Simple Payback

SPP Simple Payback Period

SPP Small Power Producers

STR Stack Temperature Rise

SV Specific Volume

System System refers to building and related site work elements as described by ASTM Uniformat II

Classification for Building Elements (E1557-97) a format for classifying major facility elements common to most buildings. Elements usually perform a given function regardless of the design

specification construction method or materials used. See also Uniformat II.

T Temperature

T Tubular (lamps)

TAA Technical Assistance Audit

TCP/IP Transmission Control Protocol/Internet Protocol

TES Thermal Energy Storage

THD Total Harmonic Distortion

TOD Time of Day

TOU Time of Use

TQM Total Quality Management

TransCo Transmission Company

U Thermal Conductance

UDC Utility Distribution Company

UL Underwriters Laboratories

UNIFORMAT II The ASTM UNIFORMAT II Classification for Building Elements (E1557-97) a format for classifying

major facility components common to most buildings.

USGBC US Green Building Council

v Specific Volume

V Volts Voltage

V Volume

VAV Variable Air Volume

VDT Video Display Terminal

VFD Variable Frequency Drive

VHO Very High Output

VSD Variable Speed Drive

W Watts W Width

WB Wet bulb

WH Wh Watt Hours

Year built The year that a building or addition was originally built based on substantial completion or

occupancy.

Z Electrical Impedance