

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.

Gideon School

| | | | |
|------------|---|---------------------|------------------|
| Governance | DISTRICT | Report Type | Elementarymiddle |
| Address | 2817 W. Glenwood Ave. Philadelphia, Pa 19121 | Enrollment | 284 |
| Phone/Fax | 215-684-5072 / 215-684-8917 | Grade Range | '00-08' |
| Website | Www.Philasd.Org/Schools/Gideon | Admissions Category | Neighborhood |
| | | Turnaround Model | N/A |

Building/System FCI Tiers

| Facility Condition Index (FCI) = $\frac{\text{Cost of Assessed Deficiencies}}{\text{Replacement Value}}$ | | | | |
|--|-------------------------------|---|---|--|
| < 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 | 43.52% | \$15,170,560 | \$34,862,490 |
| Building | 44.06 % | \$14,728,531 | \$33,426,720 |
| Grounds | 30.79 % | \$442,029 | \$1,435,770 |

Major Building Systems

| Building System | System FCI | Repair Costs | Replacement Cost |
|--|------------|--------------|------------------|
| Roof (Shows physical condition of roof) | 00.00 % | \$0 | \$942,507 |
| Exterior Walls (Shows condition of the structural condition of the exterior facade) | 00.52 % | \$12,916 | \$2,472,970 |
| Windows (Shows functionality of exterior windows) | 144.27 % | \$1,740,920 | \$1,206,670 |
| Exterior Doors (Shows condition of exterior doors) | 90.53 % | \$87,948 | \$97,150 |
| Interior Doors (Classroom doors) | 164.31 % | \$386,418 | \$235,170 |
| Interior Walls (Paint and Finishes) | 49.37 % | \$650,959 | \$1,318,560 |
| Plumbing Fixtures | 39.50 % | \$357,793 | \$905,840 |
| Boilers | 00.00 % | \$0 | \$1,250,890 |
| Chillers/Cooling Towers | 64.08 % | \$1,051,043 | \$1,640,160 |
| Radiators/Unit Ventilators/HVAC | 130.46 % | \$3,757,540 | \$2,880,330 |
| Heating/Cooling Controls | 158.90 % | \$1,437,288 | \$904,500 |
| Electrical Service and Distribution | 109.27 % | \$710,160 | \$649,900 |
| Lighting | 39.72 % | \$922,940 | \$2,323,560 |
| Communications and Security (Cameras, Pa System and Fire Alarm) | 86.57 % | \$753,483 | \$870,330 |

Please note that some FCIs may be over 100% because there are times when replacing a building system requires that other building systems be upgraded to complete the installation. A FCI of 0.0% represents that there are no current deficiencies with the associated system.

School District of Philadelphia
S453001;Gideon
Final
Site Assessment Report

January 30, 2017



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Site Assessment Report

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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 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%.

| | |
|--------------------|-----------------|
| Gross Area (SF): | 67,000 |
| Year Built: | 1952 |
| Last Renovation: | |
| Replacement Value: | \$34,862,490 |
| Repair Cost: | \$15,170,559.68 |
| Total FCI: | 43.52 % |
| Total RSLI: | 69.74 % |



Description:

Facility Assessment
December 2015

School District of Philadelphia
Gideon Elementary School
2817 W. Glenwood Ave
Philadelphia, PA 19121

67,000 SF / 596 Students / LN 04

The Gideon Elementary School building is located at 2817 W. Glenwood Ave in Philadelphia, PA. The 3 story with basement, 67,000 square foot building was originally constructed in 1951. The building has an L-shape footprint. The building has a basement partially above grade.

Mr. Derek Parker, Facility Area Coordinator, provided input to the Parsons assessment team on current problems and planned renovation projects.

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Mr. Terrance Woods, the Building Engineer, accompanied us on our tour of the school and provided us with detailed information on the building systems and recent maintenance history.

STRUCTURAL/ EXTERIOR CLOSURE:

The building typically rests on concrete foundations and bearing walls that are not showing signs of settlement. There is major water seepage through basement walls during rain in boiler and coal storage rooms on the north side of the building. Foundation walls do not show signs of deterioration. Microbial growth and rust is heavy in basement areas. The basement slab does not show signs of heaving.

The main structure consists typically of cast-in-place concrete columns, beams and one-way concrete slabs. Above ground floor slabs are generally in good condition.

The roof structure is typically similar to floor construction.

The building envelope is typically masonry with face brick over CMU or SGFT. In general, masonry is in fair condition with some small cracks and missing mortar.

The original windows were replaced in 1990 with extruded aluminum single hung windows, Lexan Plexiglas in poor condition with heavy hazing and not energy efficient. First floor windows are fitted with integral security screens in good condition. Exterior doors are typically hollow metal in poor condition; they are beyond their service life. Generally, the building is not accessible per ADA requirements due to first floor-grade separation, with no ramps or lifts.

Roofing is typically built-up system installed in 2000. All roofing and flashing is typically in fair condition. No leaks have been reported.

INTERIORS:

Partition wall types typically include painted CMU. The interior wall finishes are generally painted CMU and plaster. Walls in some toilets are SGFT. Generally, paint is in poor condition, applied in approximately 2003. Approximately 80% of ceilings are exposed, plastered and painted. 2x4 suspended acoustical panels are installed in some classrooms and office spaces in good condition.

Flooring throughout is generally VAT and VCT with concrete in toilets, stairways, and mechanical spaces. Flooring in some toilets are heavily damaged.

Interior doors are generally solid core wood doors with some glazing in hollow metal frames. Original doors are typically beyond their service life. Most doors are fitted with door knobs and are not ADA compliant.

Fittings include original chalk boards, generally in fair condition. Toilet partitions and accessories in are in very poor condition, mostly original to the building, some missing. Interior identifying signage is typically directly painted on wall or door surfaces generally in poor condition.

Stair construction is generally concrete in good condition.

Furnishings include fixed metal casework in classrooms, under window sills in good condition.

CONVEYING SYSTEMS:

The building has a 2000 lb. capacity elevator.

MECHANICAL

Plumbing Fixtures

Many of the original plumbing fixtures remain in service. Fixtures in the restrooms on each floor consist of wall mounted push button flush valve water closets, wall hung urinals, and lavatories with wheel handle faucets. Many of the units appear to be in poor condition, are beyond their useful service lives, and should be replaced.

Drinking fountains in the corridors are a mixture of wall hung porcelain and floor mounted fountains with integral refrigerated coolers. They are beyond their service life and should be replaced; most are NOT accessible type.

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A service sink is available in a janitor closet in the corridor on each floor for use by the janitorial staff. The sinks are original to the building, in poor condition, and should be replaced.

The Kitchen only has a single one-basin sink, with a grease trap, installed for washing hands.

Domestic Water Distribution

A 4" city water service enters the basement boiler room on the Northeast side of the building from West Glenwood Avenue. The 4" meter and valves are located in the same room and a reduced pressure backflow preventer is installed. Duplex 5HP Armstrong domestic pressure booster pumps with an associated expansion tank are installed on the domestic water line. A Marlo water treatment system is installed. The original domestic hot and cold water distribution piping was replaced with copper piping and sweat fittings. The maintenance staff reports no significant problems with scale build up in the domestic piping and the supply is adequate to the fixtures, but the piping has been in use for an unknown amount of time and should be inspected and repaired as necessary by a qualified contractor.

One (1) Bradford White natural gas, 80 gallon, vertical hot water heater with circulating pump supplies hot water for domestic use. The unit is located in the boiler room on the basement level and has an installation date of 2010. The hot water heater is equipped with a T&P relief valve. The domestic hot water heater is well within its service life and should provide reliable service for the next 5-7 years.

Sanitary Waste

The original storm and sanitary sewer piping is a mixture of galvanized piping with threaded fittings and cast iron piping with hub and spigot fittings. Repairs have been made with cast iron piping with no-hub fittings.

A sewage ejector pit located, in the basement boiler room, receives sewage from the basement area. The system has been in use for an unknown amount of time and appears to be in good condition. The pit is sealed. Two (2) 1.5 HP pumps are located outside the pit and appeared to be in good condition.

The maintenance staff reported mostly minor problems with the sanitary waste piping systems. However, the sewer piping has been in service for almost 65 years and will require more frequent attention from the maintenance staff as time passes. The District should hire a qualified contractor to examine the sanitary waste piping using video cameras to locate and replace any damaged piping and to further quantify the extent of potential failures.

Rain Water Drainage

Rain water drains from the roof are routed through mechanical chases in the building and appear to be original. The piping is threaded galvanized and has been in use well beyond its service life. The District should hire a qualified contractor to examine the rain water drainage piping using video cameras to locate and replace any damaged piping and to further quantify the extent of potential failures.

Energy Supply

A 1" city gas service enters the building from West Glenwood Avenue. The gas meter is 1" and is located in the custodial office adjacent to the boiler room.

The oil supply is stored in a 12,000 gallon underground storage tank (UST) located in the paved play area on the North side of the building. Duplex pumps located in the former coal/ash room circulate oil through the system. Oil is used as the primary fuel for the boilers. The storage tank should be inspected on a regular basis. The actual condition of the fuel side is unknown.

Heat Generating Systems

Low pressure steam is generated at a maximum of 15 lbs. /sq. in. by two (2) 150HP HB Smith model 4500A cast iron sectional boilers, estimated to have been installed in 2004. The Building Engineer reported that steam leaks from the system if the boilers are run above 2 lbs. /sq. in. Each boiler is equipped with a Power Flame burner designed to operate on natural gas or fuel oil. The boilers are currently only run off of fuel oil. Combustion air makeup is supplied by louvers equipped with motorized dampers. Burner controls provide full modulation with flame sensing and pressure atomization on oil. Burner oil pumps are loose and not driven by the fan motor. Induced draft fans with positive draft control are installed on the rear of each boiler. The oil supply to the burner is equipped with dual solenoid valves and a strainer. The Building Engineer reports the system loses a significant amount of condensate due to failed traps, which is made up with chemically treated city water. Cast iron sectional boilers have an anticipated service life of 35 years or more; these units have been in service approximately 12 years. The boilers appear to be in poor condition, with rust forming on their exterior, due to the steam that has leaked into the boiler room. The District should provide reliable service for the next

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15 to 20 years.

A vacuum condensate receiver tank and boiler feed pump assembly are installed in the boiler room. The receiver tank provides treated make-up water to the boilers. The unit has three (3) 2HP pumps headered together and mounted on the tank. The unit appears to be in poor condition with rust forming on many parts due to leaking steam. The condensate receiver and associated pumps are damaged from rust and should be replaced.

Distribution Systems

Steam piping mains are black steel with flanged fittings and smaller distribution piping is black steel with welded fittings. The condensate piping is black steel with threaded fittings. Steam and condensate piping mains run up through the building to the unit ventilators and fin tube radiators on all three (3) floors. The Building Engineer reported that many sections of the condensate piping leak and the piping is in poor condition. The distribution piping has been in use well beyond its service life and will require more frequent attention from the maintenance staff to address pipe/valve failures as time passes. The District should hire a qualified contractor to examine the steam and condensate piping and perform additional testing to locate and replace any damaged piping and to further quantify the extent of potential failures. The District should budget for replacing this piping over the next 5 years.

Unit ventilators and fin tube radiators provide heating for classrooms, offices, and to the corridors. The unit ventilators and fin tube radiators are original to the building and well beyond their service lives. Outdoor air for the building is provided by wall openings in the unit ventilators. The existing unit ventilators should be removed and new units installed with hot and chilled water coils and integral heat exchangers to introduce sufficient outdoor air to the building. Heating is supplied to the Gymnasium/Cafeteria and Auditorium by fin tube radiators. Ventilation is provided to the Gymnasium/Cafeteria and Auditorium by two (2) 3HP fans, located in the third floor mechanical room. This does not meet current code required ventilation requirements. Ventilation should be provided for the Gymnasium/Cafeteria by installing a fan coil air handling unit hung from the structure with outdoor air ducted to the unit from louvers in the window openings. Similar units should be installed for the administration offices. Ventilation should be provided for the Auditorium by installing a constant volume air handling unit with distribution ductwork and registers. These units would be equipped with hot water heating coils and chilled water cooling coils.

Exhaust for the restrooms and janitor closets is provided by five (5) exhaust fans located in closets on the first and third floors. The exhaust fans are in poor condition, well beyond their service lives, and all should be replaced. Thirteen (13) small roof mounted gravity ventilators provide relief air for the corridors and are in poor condition. All gravity ventilators are beyond their service lives and should be replaced.

Terminal & Package Units

Several of the classrooms in the school building have window air conditioning units that have an anticipated service life of only 10 years. Installing a 190 ton air-cooled chiller, with pumps located in a mechanical room, and chilled water distribution piping would supply more reliable air conditioning for the building with a much longer service life.

Two (2) Mitsubishi split system air conditioning systems provide cooling to the two (2) LAN rooms; one (1) located on the third floor adjacent to the Gymnasium/Cafeteria, the second located on the first floor on the North side of the building. The installation date of this unit is unknown; the anticipated service life of a split system air conditioner is 15 years. The district should budget to replace this unit within the next 7-10 years.

One (1) small exhaust hood is installed in the Kitchen, no equipment is installed below the hood. The hood appeared to be in good condition and is not used according to the Building Engineer.

Controls & Instrumentation

The original pneumatic systems no longer provide basic control functions. Pneumatic room thermostats are intended to control the unit ventilator control valves. In reality the unit ventilator control valves are wide open and heating is controlled via the boilers. Pneumatic control air is no longer supplied as the two (2) air compressors are defunct. The pneumatic systems are beyond their service life, no longer functional, and require too much attention from the maintenance staff. The original control valves and pneumatic actuators are beyond their service life and should be rebuilt or replaced. These controls should be converted to DDC.

A new building automation system (BAS) with modern DDC modules and communications network should be installed to serve the HVAC systems in this building to improve reliability and energy efficiency. An interface should be provided with the preferred system in use throughout the District.

Sprinklers

The school building is NOT covered by an automatic sprinkler system. Installing a sprinkler system with quick response type heads should reduce insurance costs by providing protection for the property investment. A fire pump may be required depending on the available city water pressure.

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The building is not equipped with fire stand pipes.

ELECTRICAL:

Site electrical service - The primary power is at 13.2KV from the power poles. The primary power is brought into the school underground and to the electrical vault outside, feeding two vault mounted transformers. The secondary power feeds an old 1200A, 120V/240V, 2 phase switchboard. The PECO meter is also located inside the new electrical room (basement). The switchboard is old and not functioning properly. The site electrical service has reached the end of its useful service life.

Distribution system - The electrical distribution is accomplished by using the main 120V/240V switchboard (located in the electrical room) and feeding several 120V lighting and receptacle panels throughout the building. These panels are old, and they have reached the end of their useful service life.

Receptacles - The receptacles in classrooms, computer rooms, libraries, and other areas are not adequate. The walls in classrooms and the computer rooms have insufficient number of receptacles (minimum of 2 on each wall is required). Only about 20% of school has been upgraded with more receptacles, however the majority of the school (80%) lacks enough receptacles.

Lighting - Interior building is illuminated by various types of fixtures. They include fluorescent lighting (mostly T-12 lamps) in majority of the areas, including; classrooms, corridors, offices, Library, cafeteria, Kitchen, etc. Surface or pendant mounted industrial fluorescent fixtures are used in mechanical and electrical rooms. There are upgraded HID lighting fixtures in the Gymnasium. About 20% of the school lighting has been upgraded, however the majority of the building (80%) lacks adequate illumination level. The majority of interior lighting fixtures (80%) are in poor condition and have reached the end of their useful service life.

Fire alarm - The present Fire Alarm system is old, not automatic/addressable, and is not in compliance with safety codes. There are some manual pulls stations throughout the building. There are also some horn/strobes in the classrooms, corridors, offices and other areas in the school. Overall, the FA system is old and has reached the end of its useful service life.

Telephone/LAN - The school telephone and data systems are working properly. A main distribution frame (MDF) along with a telephone PBX system are providing the communication system function for the building. School is also equipped with Wi-Fi system.

Public address - A separate PA system does not exist. School uses the telephone systems for public announcement. The present System is functioning properly. Each class room is provided with an intercom telephone service. This system allows paging and intercom communication between main office to each classroom, and vice versa between each classroom and main office. Also, the system allows communications between classrooms to other classrooms.

Clock and Program system – There are clocks in each classroom (12-inch round clocks), however the clocks are not controlled properly by the master clock control.

Television System - Television system is not provided for the school. There are smart boards in most of the classrooms capable of connecting to computers and internet.

Security Systems, access control, and video surveillance - The school has a video surveillance system. There are cameras are installed at exit doors, corridors, exterior, and other critical areas. However school would like to have more cameras to cover critical areas. The new cameras should be controlled by a Closed Circuit Television system (CCTV).

Emergency Power System – There is no emergency generator in this building. School needs an Emergency generator for all the critical loads and elevator loads.

Emergency lighting and exit lights - there are insufficient number of emergency lights/exit lights in the corridors and other exit ways. The exit/emergency lights are old and they have reached the end of their useful service life.

Lightning Protection System - There are several lightning protection rods installed on the roof. The rods are connected to the ground by using stranded aluminum cables from the roof top all the way to the ground floor.

Grounding - The present grounding system is adequate. All equipment are properly bonded to the ground.

Auditorium – The auditorium general lighting uses decorative light fixtures with adequate lumens. The stage lighting has old fixtures without a

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proper controller. Also, the auditorium has an old sound system.

The auditorium stage lighting and sound systems are old and they have reached the end of their useful service life.

Elevators – This school has no elevator.

GROUNDS/SITE

Southern point of site used for faculty parking is asphalt in fair condition. Play yard on north and west sides is concrete paving in poor condition with damaged areas and cracks. Play structure is in fair condition with damaged fall protection surface in need of replacement. Fencing surrounding site is chain link in poor condition. Landscaping is minimal and consists of mature trees along north and south sides.

Site Lighting - The school has some exterior lighting. However, a few pole-mounted lights are needed to provide adequate lighting for the grounds security and safety of people at night.

Site Paging – The school has some exterior speakers, however a few additional speakers are needed for proper communication with students playing outside.

RECOMMENDATIONS:

- Investigate and repair water intrusion in basement areas
- Remediate mold in basement area
- Repair cracks in exterior brick masonry
- Replace exterior windows for energy efficiency
- Replace exterior doors – beyond service life and damaged
- Install accessible door hardware on at least one entrance
- Repaint interior wall surfaces – 80% beyond service life
- Repair and replace flooring in toilet – damaged
- Replace interior doors – beyond service life
- Replace toilet partitions – missing and damaged
- Install interior ID signage

- Replace sixteen (16) urinals, in use beyond their service life, with new low flow fixtures.
- Replace twenty-seven (27) water closets, in use beyond their service life, with new code compliant fixtures.
- Replace three (3) lavatories, in use beyond their service life, with new code compliant fixtures.
- Replace four (4) drinking fountains in the corridors. These units are beyond their service life and most are NOT accessible type.
- Replace three (3) service sinks, located in the corridors of each floor, which are beyond their service lives.
- Hire a qualified contractor to perform a detailed inspection of the domestic water piping, in use for an unknown amount of time, and replace any damaged piping.
- 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.
- Hire a qualified contractor to perform a detailed examination of the rain water drainage piping using visual inspection and video cameras to locate and replace any damaged piping and to further quantify the extent of potential failures.
- Replace the vacuum condensate receiver tank and three (3) associated 2HP boiler feed pumps which are damaged from rust.
- Conduct a steam trap survey to identify and replace failed traps passing live steam into the condensate piping system.
- Hire a qualified contractor to examine the steam and condensate piping, in service for almost 65 years and which is leaking, and perform additional testing to locate and replace any damaged piping and to further quantify the extent of potential failures.
- Remove the existing unit ventilators and install units with hot and chilled water coils and integral heat exchangers to introduce outdoor air to the building.
- Provide ventilation for the Gymnasium/Cafeteria by installing a fan coil air handling unit hung from the structure with outdoor air ducted to the unit from louvers in the window openings.
- Provide ventilation for the Auditorium by installing a fan coil air handling unit hung from the structure with outdoor air ducted to the unit from louvers in window openings.
- Provide ventilation for the administration offices by installing a fan coil air handling unit hung from the structure with outdoor air ducted to the unit from louvers in window openings.
- Remove the window air conditioning units and install a 190 ton air-cooled chiller with chilled water distribution piping and pumps located in a mechanical room to supply more reliable air conditioning for the building with a much longer service life.
- Replace five (5) exhaust fans, located on the first and third floors, serving the restrooms which are well beyond their service

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lives.

- Replace thirteen (13) roof mounted gravity ventilators which are beyond their service lives.
- Replace the pneumatic controls for the HVAC systems with modern DDC modules, valves and actuators to improve reliability and energy efficiency. Provide a new building automation system (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. A fire pump may be required depending on the available city water pressure.
- Install a new and upgraded electrical service for this school to handle existing loads plus any additional mechanical loads.
- Install new 120V lighting and receptacle panels throughout the building (total of 10)
- Install new lighting system for 80% of the building.
- Install new receptacles for 80% of the building
- Install new clock system
- Install additional video surveillance system for indoor and outdoor.
- Install new automated/addressable FA system.
- Install a new Emergency generator.
- Install new exit lights and emergency lights.
- Install an upgraded auditorium stage lighting, lighting control and sound system.
- Repair play yard concrete – damaged
- Replace playground fall protection surface – damaged
- Replace chain link fencing surrounding site – beyond service life
- Install accessible ramp on at least one main entrance
- Install additional pole-mounted lights for the grounds
- Install additional exterior speakers for the grounds

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Attributes:

General Attributes:

| | | | |
|----------|-----------------|--------------|--------------|
| Active: | Open | Bldg Lot Tm: | Lot 5 / Tm 4 |
| Status: | Accepted by SDP | Team: | Tm 4 |
| Site ID: | S453001 | | |

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 | 37.00 % | 16.17 % | \$283,035.04 |
| A20 - Basement Construction | 37.00 % | 1.37 % | \$17,716.67 |
| B10 - Superstructure | 37.00 % | 0.00 % | \$0.00 |
| B20 - Exterior Enclosure | 60.55 % | 48.77 % | \$1,841,783.60 |
| B30 - Roofing | 50.00 % | 0.00 % | \$0.00 |
| C10 - Interior Construction | 55.37 % | 27.61 % | \$454,000.40 |
| C20 - Stairs | 37.00 % | 0.00 % | \$0.00 |
| C30 - Interior Finishes | 75.12 % | 20.15 % | \$676,011.47 |
| D10 - Conveying | 28.57 % | 0.00 % | \$0.00 |
| D20 - Plumbing | 106.34 % | 96.71 % | \$1,323,097.73 |
| D30 - HVAC | 90.80 % | 83.80 % | \$6,245,870.65 |
| D40 - Fire Protection | 92.47 % | 177.49 % | \$958,466.34 |
| D50 - Electrical | 110.11 % | 71.33 % | \$2,809,295.05 |
| E10 - Equipment | 57.14 % | 11.18 % | \$119,253.93 |
| E20 - Furnishings | 62.50 % | 0.00 % | \$0.00 |
| G20 - Site Improvements | 55.66 % | 23.81 % | \$261,700.68 |
| G40 - Site Electrical Utilities | 106.67 % | 53.56 % | \$180,328.12 |
| Totals: | 69.74 % | 43.52 % | \$15,170,559.68 |

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) | 4 - Response Time (4-5 yrs) | 5 - Response Time (> 5 yrs) |
|-----------------|-------------------|--------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| B453001;Gideon | 67,000 | 44.06 | \$1,812,145.66 | \$1,626,577.07 | \$6,203,494.44 | \$2,919,293.84 | \$2,167,019.87 |
| G453001;Grounds | 77,400 | 30.79 | \$32,477.25 | \$223,937.71 | \$103,190.32 | \$82,423.52 | \$0.00 |
| Total: | | 43.52 | \$1,844,622.91 | \$1,850,514.78 | \$6,306,684.76 | \$3,001,717.36 | \$2,167,019.87 |

Deficiencies By Priority



- 1 - Response Time (< 2 yr) - \$1,844,622.91
- 2 - Response Time (2-3 yrs) - \$1,850,514.78
- 3 - Response Time (3-4 yrs) - \$6,306,684.76
- 4 - Response Time (4-5 yrs) - \$3,001,717.36
- 5 - Response Time (> 5 yrs) - \$2,167,019.87

Budget Estimate Total: \$15,170,559.68

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): | 67,000 |
| Year Built: | 1952 |
| Last Renovation: | |
| Replacement Value: | \$33,426,720 |
| Repair Cost: | \$14,728,530.88 |
| Total FCI: | 44.06 % |
| Total RSLI: | 69.83 % |



Description:

Attributes:

General Attributes:

| | | | |
|-----------------|---------|----------|-----------------|
| Active: | Open | Bldg ID: | B453001 |
| Sewage Ejector: | Yes | Status: | Accepted by SDP |
| Site ID: | S453001 | | |

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 | 37.00 % | 16.17 % | \$283,035.04 |
| A20 - Basement Construction | 37.00 % | 1.37 % | \$17,716.67 |
| B10 - Superstructure | 37.00 % | 0.00 % | \$0.00 |
| B20 - Exterior Enclosure | 60.55 % | 48.77 % | \$1,841,783.60 |
| B30 - Roofing | 50.00 % | 0.00 % | \$0.00 |
| C10 - Interior Construction | 55.37 % | 27.61 % | \$454,000.40 |
| C20 - Stairs | 37.00 % | 0.00 % | \$0.00 |
| C30 - Interior Finishes | 75.12 % | 20.15 % | \$676,011.47 |
| D10 - Conveying | 28.57 % | 0.00 % | \$0.00 |
| D20 - Plumbing | 106.34 % | 96.71 % | \$1,323,097.73 |
| D30 - HVAC | 90.80 % | 83.80 % | \$6,245,870.65 |
| D40 - Fire Protection | 92.47 % | 177.49 % | \$958,466.34 |
| D50 - Electrical | 110.11 % | 71.33 % | \$2,809,295.05 |
| E10 - Equipment | 57.14 % | 11.18 % | \$119,253.93 |
| E20 - Furnishings | 62.50 % | 0.00 % | \$0.00 |
| Totals: | 69.83 % | 44.06 % | \$14,728,530.88 |

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. | 67,000 | 100 | 1952 | 2052 | | 37.00 % | 0.00 % | 37 | | | \$1,232,800 |
| A1030 | Slab on Grade | \$7.73 | S.F. | 67,000 | 100 | 1952 | 2052 | | 37.00 % | 54.65 % | 37 | | \$283,035.04 | \$517,910 |
| A2010 | Basement Excavation | \$6.55 | S.F. | 67,000 | 100 | 1952 | 2052 | | 37.00 % | 0.00 % | 37 | | | \$438,850 |
| A2020 | Basement Walls | \$12.70 | S.F. | 67,000 | 100 | 1952 | 2052 | | 37.00 % | 2.08 % | 37 | | \$17,716.67 | \$850,900 |
| B1010 | Floor Construction | \$75.10 | S.F. | 67,000 | 100 | 1952 | 2052 | | 37.00 % | 0.00 % | 37 | | | \$5,031,700 |
| B1020 | Roof Construction | \$13.88 | S.F. | 67,000 | 100 | 1952 | 2052 | | 37.00 % | 0.00 % | 37 | | | \$929,960 |
| B2010 | Exterior Walls | \$36.91 | S.F. | 67,000 | 100 | 1952 | 2052 | | 37.00 % | 0.52 % | 37 | | \$12,915.80 | \$2,472,970 |
| B2020 | Exterior Windows | \$18.01 | S.F. | 67,000 | 40 | 1990 | 2030 | 2057 | 105.00 % | 144.27 % | 42 | | \$1,740,919.72 | \$1,206,670 |
| B2030 | Exterior Doors | \$1.45 | S.F. | 67,000 | 25 | 1980 | 2005 | 2042 | 108.00 % | 90.53 % | 27 | | \$87,948.08 | \$97,150 |
| B3010105 | Built-Up | \$37.76 | S.F. | 24,854 | 20 | 2000 | 2020 | 2025 | 50.00 % | 0.00 % | 10 | | | \$938,487 |
| 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. | | 25 | | | | 0.00 % | 0.00 % | | | | \$0 |
| B3020 | Roof Openings | \$0.06 | S.F. | 67,000 | 20 | 2000 | 2020 | 2025 | 50.00 % | 0.00 % | 10 | | | \$4,020 |
| C1010 | Partitions | \$17.91 | S.F. | 67,000 | 100 | 1952 | 2052 | | 37.00 % | 0.00 % | 37 | | | \$1,199,970 |
| C1020 | Interior Doors | \$3.51 | S.F. | 67,000 | 40 | 1952 | 1992 | 2057 | 105.00 % | 164.31 % | 42 | | \$386,417.56 | \$235,170 |
| C1030 | Fittings | \$3.12 | S.F. | 67,000 | 40 | 1952 | 1992 | 2057 | 105.00 % | 32.33 % | 42 | | \$67,582.84 | \$209,040 |
| C2010 | Stair Construction | \$1.41 | S.F. | 67,000 | 100 | 1952 | 2052 | | 37.00 % | 0.00 % | 37 | | | \$94,470 |

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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 | \$19.29 | S.F. | 67,000 | 10 | 2003 | 2013 | 2027 | 120.00 % | 50.37 % | 12 | | \$650,959.12 | \$1,292,430 |
| C3010231 | Vinyl Wall Covering | \$0.00 | S.F. | 67,000 | 15 | | | | 0.00 % | 0.00 % | | | | \$0 |
| C3010232 | Wall Tile | \$0.39 | S.F. | 67,000 | 30 | 1952 | 1982 | 2030 | 50.00 % | 0.00 % | 15 | | | \$26,130 |
| C3020411 | Carpet | \$7.30 | S.F. | | 10 | | | | 0.00 % | 0.00 % | | | | \$0 |
| C3020412 | Terrazzo & Tile | \$75.52 | S.F. | 1,340 | 50 | 1952 | 2002 | 2022 | 14.00 % | 0.00 % | 7 | | | \$101,197 |
| C3020413 | Vinyl Flooring | \$9.68 | S.F. | 53,600 | 20 | 1983 | 2003 | 2023 | 40.00 % | 0.00 % | 8 | | | \$518,848 |
| C3020414 | Wood Flooring | \$22.27 | S.F. | | 25 | | | | 0.00 % | 0.00 % | | | | \$0 |
| C3020415 | Concrete Floor Finishes | \$0.97 | S.F. | 12,060 | 50 | 1983 | 2033 | | 36.00 % | 214.16 % | 18 | | \$25,052.35 | \$11,698 |
| C3030 | Ceiling Finishes | \$20.97 | S.F. | 67,000 | 25 | 2003 | 2028 | | 52.00 % | 0.00 % | 13 | | | \$1,404,990 |
| D1010 | Elevators and Lifts | \$1.53 | S.F. | 67,000 | 35 | 1990 | 2025 | | 28.57 % | 0.00 % | 10 | | | \$102,510 |
| D2010 | Plumbing Fixtures | \$13.52 | S.F. | 67,000 | 35 | 1952 | 1987 | 2052 | 105.71 % | 39.50 % | 37 | | \$357,792.87 | \$905,840 |
| D2020 | Domestic Water Distribution | \$1.68 | S.F. | 67,000 | 25 | 1952 | 1977 | 2042 | 108.00 % | 301.63 % | 27 | | \$339,512.78 | \$112,560 |
| D2030 | Sanitary Waste | \$2.90 | S.F. | 67,000 | 25 | 1952 | 1977 | 2042 | 108.00 % | 169.16 % | 27 | | \$328,685.26 | \$194,300 |
| D2040 | Rain Water Drainage | \$2.32 | S.F. | 67,000 | 30 | 1952 | 1982 | 2047 | 106.67 % | 191.14 % | 32 | | \$297,106.82 | \$155,440 |
| D3020 | Heat Generating Systems | \$18.67 | S.F. | 67,000 | 35 | 2004 | 2039 | | 68.57 % | 0.00 % | 24 | | | \$1,250,890 |
| D3030 | Cooling Generating Systems | \$24.48 | S.F. | 67,000 | 20 | | | 2037 | 110.00 % | 64.08 % | 22 | | \$1,051,042.97 | \$1,640,160 |
| D3040 | Distribution Systems | \$42.99 | S.F. | 67,000 | 25 | 1952 | 1977 | 2042 | 108.00 % | 130.46 % | 27 | | \$3,757,540.11 | \$2,880,330 |
| D3050 | Terminal & Package Units | \$11.60 | S.F. | 67,000 | 20 | | | | 0.00 % | 0.00 % | | | | \$777,200 |
| D3060 | Controls & Instrumentation | \$13.50 | S.F. | 67,000 | 20 | 1952 | 1972 | 2037 | 110.00 % | 158.90 % | 22 | | \$1,437,287.57 | \$904,500 |
| D4010 | Sprinklers | \$7.05 | S.F. | 67,000 | 35 | | | 2052 | 105.71 % | 202.91 % | 37 | | \$958,466.34 | \$472,350 |
| D4020 | Standpipes | \$1.01 | S.F. | 67,000 | 35 | | | | 0.00 % | 0.00 % | | | | \$67,670 |
| D5010 | Electrical Service/Distribution | \$9.70 | S.F. | 67,000 | 30 | 1952 | 1982 | 2047 | 106.67 % | 109.27 % | 32 | | \$710,159.79 | \$649,900 |
| D5020 | Lighting and Branch Wiring | \$34.68 | S.F. | 67,000 | 20 | 1952 | 1972 | 2037 | 110.00 % | 39.72 % | 22 | | \$922,939.77 | \$2,323,560 |
| D5030 | Communications and Security | \$12.99 | S.F. | 67,000 | 15 | 1952 | 1967 | 2032 | 113.33 % | 86.57 % | 17 | | \$753,483.40 | \$870,330 |
| D5090 | Other Electrical Systems | \$1.41 | S.F. | 67,000 | 30 | 1952 | 1982 | 2047 | 106.67 % | 447.46 % | 32 | | \$422,712.09 | \$94,470 |
| E1020 | Institutional Equipment | \$4.82 | S.F. | 67,000 | 35 | 2000 | 2035 | | 57.14 % | 36.93 % | 20 | | \$119,253.93 | \$322,940 |
| E1090 | Other Equipment | \$11.10 | S.F. | 67,000 | 35 | 2000 | 2035 | | 57.14 % | 0.00 % | 20 | | | \$743,700 |
| E2010 | Fixed Furnishings | \$2.13 | S.F. | 67,000 | 40 | 2000 | 2040 | | 62.50 % | 0.00 % | 25 | | | \$142,710 |
| Total | | | | | | | | | 69.83 % | 44.06 % | | | \$14,728,530.88 | \$33,426,270 |

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: 98% - Paint & Covering 2% - Wall Tile (glazed block) | |

| | |
|--|--------------------------------|
| System: C3020 - Floor Finishes | This system contains no images |
| Note: 2% - Terrazzo & Tile (ceramic) 80% - Vinyl Flooring 18% - Concrete Floor Finishes | |

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: | \$14,728,531 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$136,905 | \$722,987 | \$0 | \$1,544,857 | \$17,133,280 |
| * 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 | \$283,035 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$283,035 |
| 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 | \$17,717 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$17,717 |
| 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 | \$12,916 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$12,916 |
| B2020 - Exterior Windows | \$1,740,920 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,740,920 |
| B2030 - Exterior Doors | \$87,948 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$87,948 |
| 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 | \$1,387,373 | \$1,387,373 |
| 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 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| B3020 - Roof Openings | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,943 | \$5,943 |
| 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 | \$386,418 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$386,418 |
| C1030 - Fittings | \$67,583 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$67,583 |
| C20 - Stairs | \$0 | \$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 | \$0 |
| C30 - Interior Finishes | \$0 | \$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 | \$0 |
| C3010230 - Paint & Covering | \$650,959 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$650,959 |
| C3010231 - Vinyl Wall Covering | \$0 | \$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 | \$0 |
| C3020 - Floor Finishes | \$0 | \$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 | \$0 |
| C3020412 - Terrazzo & Tile | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$136,905 | \$0 | \$0 | \$0 | \$0 | \$136,905 |
| C3020413 - Vinyl Flooring | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$722,987 | \$0 | \$0 | \$0 | \$722,987 |
| C3020414 - Wood Flooring | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| C3020415 - Concrete Floor Finishes | \$25,052 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$25,052 |
| C3030 - Ceiling Finishes | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| D - Services | \$0 | \$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 | \$0 |
| D1010 - Elevators and Lifts | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$151,541 | \$151,541 |
| D20 - Plumbing | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| D2010 - Plumbing Fixtures | \$357,793 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$357,793 |
| D2020 - Domestic Water Distribution | \$339,513 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$339,513 |
| D2030 - Sanitary Waste | \$328,685 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$328,685 |
| D2040 - Rain Water Drainage | \$297,107 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$297,107 |
| D30 - HVAC | \$0 | \$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 | \$0 |
| D3030 - Cooling Generating Systems | \$1,051,043 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,051,043 |
| D3040 - Distribution Systems | \$3,757,540 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,757,540 |
| D3050 - Terminal & Package Units | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| D3060 - Controls & Instrumentation | \$1,437,288 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,437,288 |
| D40 - Fire Protection | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| D4010 - Sprinklers | \$958,466 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$958,466 |
| D4020 - Standpipes | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

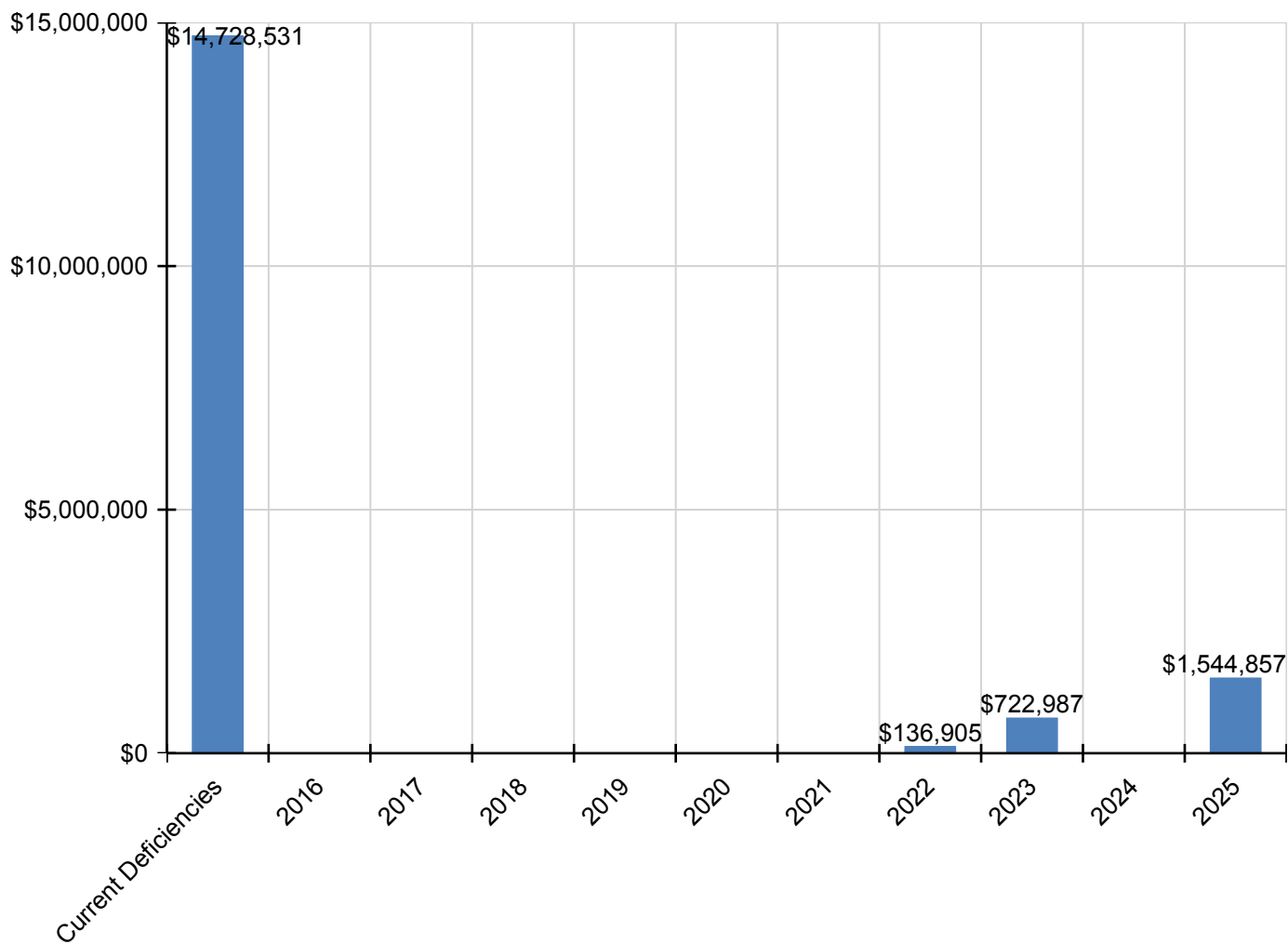
Site Assessment Report - B453001;Gideon

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|--|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| D50 - Electrical | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| D5010 - Electrical Service/Distribution | \$710,160 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$710,160 |
| D5020 - Lighting and Branch Wiring | \$922,940 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$922,940 |
| D5030 - Communications and Security | \$753,483 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$753,483 |
| D5090 - Other Electrical Systems | \$422,712 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$422,712 |
| E - Equipment & Furnishings | \$0 | \$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 | \$0 |
| E1020 - Institutional Equipment | \$119,254 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$119,254 |
| E1090 - Other Equipment | \$0 | \$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 | \$0 |
| E2010 - Fixed Furnishings | \$0 | \$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.

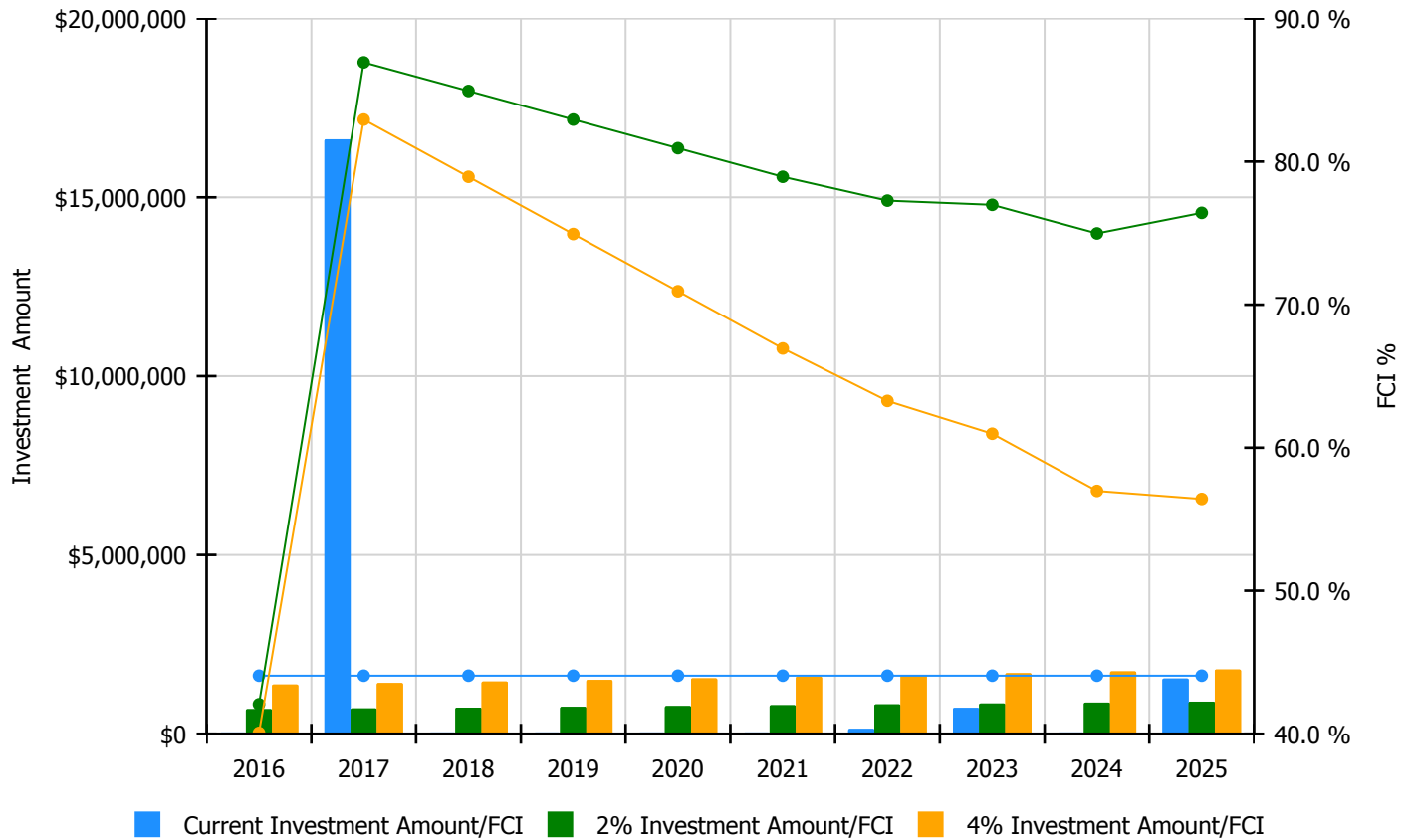


10 Year FCI Forecast by Investment Scenario

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

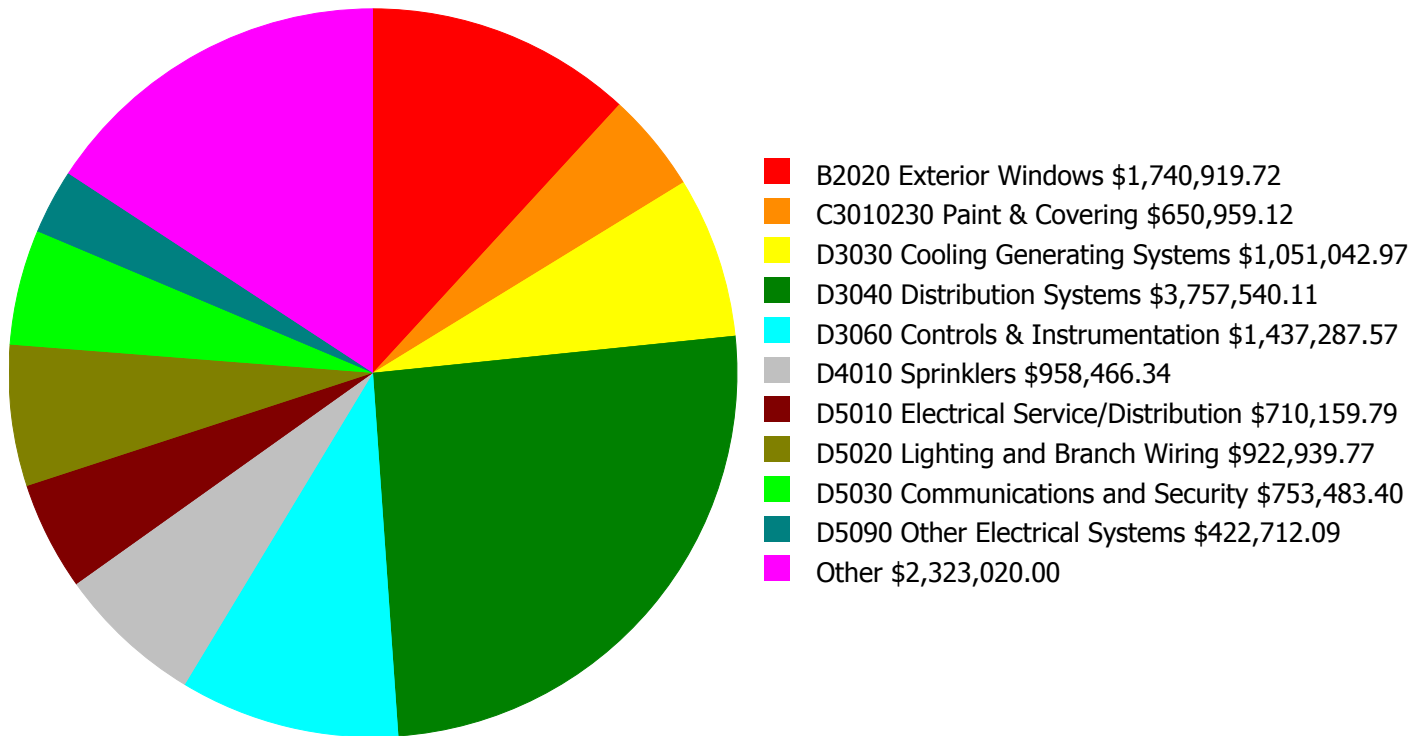
Facility Investment vs. FCI Forecast



| Year | Investment Amount Current FCI - 44.06% | 2% Investment | | 4% Investment | |
|---------------|---|-----------------------|---------|------------------------|---------|
| | | Amount | FCI | Amount | FCI |
| 2016 | \$0 | \$688,590.00 | 42.06 % | \$1,377,181.00 | 40.06 % |
| 2017 | \$16,622,839 | \$709,248.00 | 86.94 % | \$1,418,496.00 | 82.94 % |
| 2018 | \$0 | \$730,526.00 | 84.94 % | \$1,461,051.00 | 78.94 % |
| 2019 | \$0 | \$752,441.00 | 82.94 % | \$1,504,883.00 | 74.94 % |
| 2020 | \$0 | \$775,015.00 | 80.94 % | \$1,550,029.00 | 70.94 % |
| 2021 | \$0 | \$798,265.00 | 78.94 % | \$1,596,530.00 | 66.94 % |
| 2022 | \$136,905 | \$822,213.00 | 77.27 % | \$1,644,426.00 | 63.27 % |
| 2023 | \$722,987 | \$846,879.00 | 76.98 % | \$1,693,759.00 | 60.98 % |
| 2024 | \$0 | \$872,286.00 | 74.98 % | \$1,744,572.00 | 56.98 % |
| 2025 | \$1,544,857 | \$898,454.00 | 76.42 % | \$1,796,909.00 | 56.42 % |
| Total: | \$19,027,588 | \$7,893,917.00 | | \$15,787,836.00 | |

Deficiency Summary by System

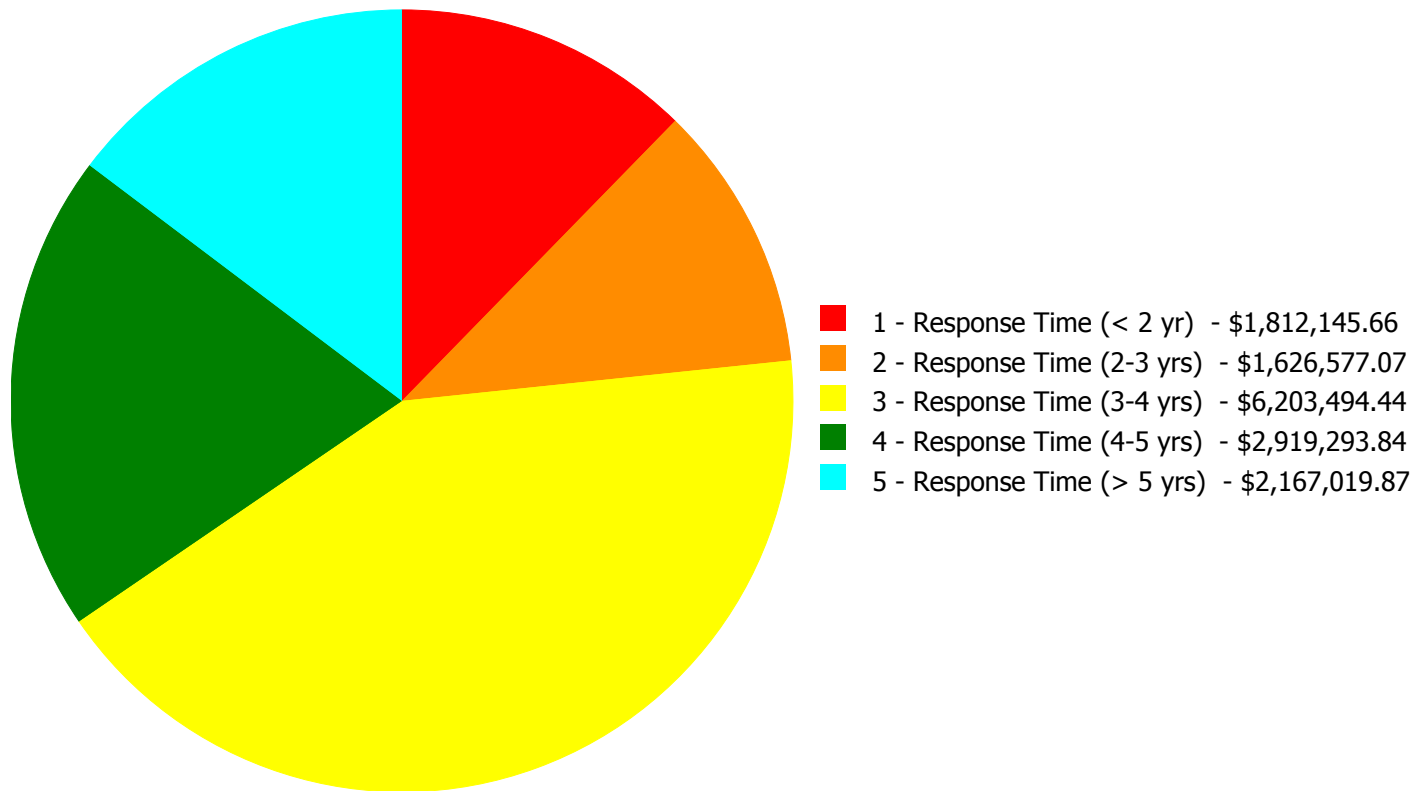
Current deficiencies included assemblies that have reached or exceeded their design life or components of the assemblies that are in need of repair. Assemblies that have reached their design life are identified as current deficiencies and assigned the distress 'Beyond Useful Life'. The following chart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



Budget Estimate Total: \$14,728,530.88

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: \$14,728,530.88

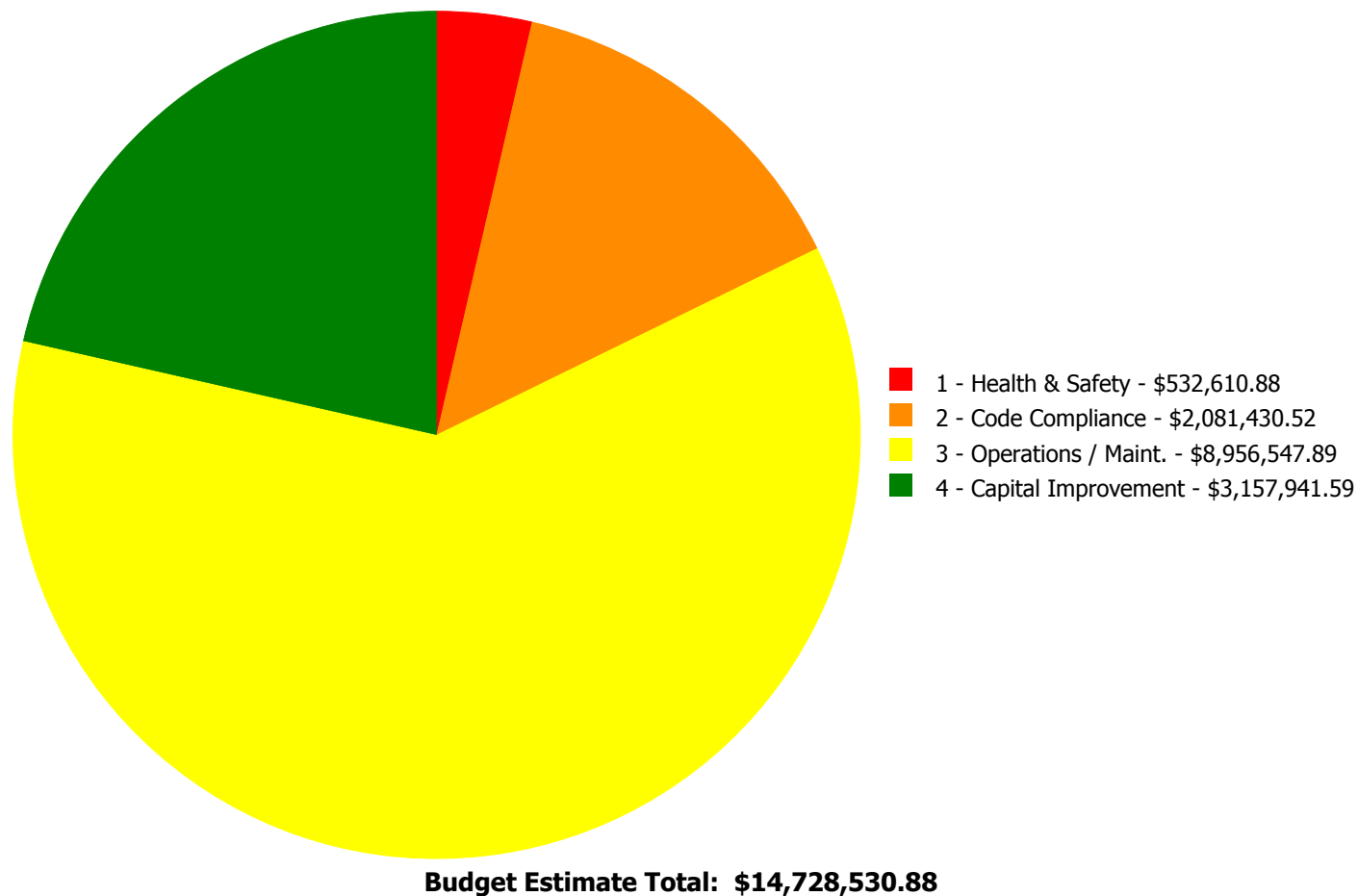
Deficiency By Priority Investment Table

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 |
|-------------|---------------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|
| A1030 | Slab on Grade | \$0.00 | \$283,035.04 | \$0.00 | \$0.00 | \$0.00 | \$283,035.04 |
| A2020 | Basement Walls | \$0.00 | \$17,716.67 | \$0.00 | \$0.00 | \$0.00 | \$17,716.67 |
| B2010 | Exterior Walls | \$0.00 | \$12,915.80 | \$0.00 | \$0.00 | \$0.00 | \$12,915.80 |
| B2020 | Exterior Windows | \$0.00 | \$0.00 | \$0.00 | \$1,740,919.72 | \$0.00 | \$1,740,919.72 |
| B2030 | Exterior Doors | \$0.00 | \$87,948.08 | \$0.00 | \$0.00 | \$0.00 | \$87,948.08 |
| C1020 | Interior Doors | \$0.00 | \$0.00 | \$386,417.56 | \$0.00 | \$0.00 | \$386,417.56 |
| C1030 | Fittings | \$0.00 | \$51,328.09 | \$0.00 | \$16,254.75 | \$0.00 | \$67,582.84 |
| C3010230 | Paint & Covering | \$0.00 | \$650,959.12 | \$0.00 | \$0.00 | \$0.00 | \$650,959.12 |
| C3020415 | Concrete Floor Finishes | \$0.00 | \$25,052.35 | \$0.00 | \$0.00 | \$0.00 | \$25,052.35 |
| D2010 | Plumbing Fixtures | \$0.00 | \$0.00 | \$334,198.75 | \$23,594.12 | \$0.00 | \$357,792.87 |
| D2020 | Domestic Water Distribution | \$0.00 | \$0.00 | \$0.00 | \$339,512.78 | \$0.00 | \$339,512.78 |
| D2030 | Sanitary Waste | \$0.00 | \$0.00 | \$328,685.26 | \$0.00 | \$0.00 | \$328,685.26 |
| D2040 | Rain Water Drainage | \$0.00 | \$0.00 | \$297,106.82 | \$0.00 | \$0.00 | \$297,106.82 |
| D3030 | Cooling Generating Systems | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,051,042.97 | \$1,051,042.97 |
| D3040 | Distribution Systems | \$853,679.32 | \$85,863.15 | \$1,702,020.74 | \$0.00 | \$1,115,976.90 | \$3,757,540.11 |
| D3060 | Controls & Instrumentation | \$0.00 | \$0.00 | \$1,437,287.57 | \$0.00 | \$0.00 | \$1,437,287.57 |
| D4010 | Sprinklers | \$958,466.34 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$958,466.34 |
| D5010 | Electrical Service/Distribution | \$0.00 | \$411,758.77 | \$0.00 | \$298,401.02 | \$0.00 | \$710,159.79 |
| D5020 | Lighting and Branch Wiring | \$0.00 | \$0.00 | \$922,939.77 | \$0.00 | \$0.00 | \$922,939.77 |
| D5030 | Communications and Security | \$0.00 | \$0.00 | \$372,125.88 | \$381,357.52 | \$0.00 | \$753,483.40 |
| D5090 | Other Electrical Systems | \$0.00 | \$0.00 | \$422,712.09 | \$0.00 | \$0.00 | \$422,712.09 |
| E1020 | Institutional Equipment | \$0.00 | \$0.00 | \$0.00 | \$119,253.93 | \$0.00 | \$119,253.93 |
| | Total: | \$1,812,145.66 | \$1,626,577.07 | \$6,203,494.44 | \$2,919,293.84 | \$2,167,019.87 | \$14,728,530.88 |

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: D3040 - Distribution Systems



Location: Throughout building

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Perform testing to identify and replace damaged steam and condensate piping.

Qty: 67,000.00

Unit of Measure: S.F.

Estimate: \$633,845.05

Assessor Name: System

Date Created: 02/04/2016

Notes: Hire a qualified contractor to examine the steam and condensate piping, in service for almost 65 years and which is leaking, and perform additional testing to locate and replace any damaged piping and to further quantify the extent of potential failures.

System: D3040 - Distribution Systems



Location: Throughout building

Distress: Failing

Category: 3 - Operations / Maint.

Priority: 1 - Response Time (< 2 yr)

Correction: Conduct a steam trap survey and replace failed units.

Qty: 67,000.00

Unit of Measure: S.F.

Estimate: \$219,834.27

Assessor Name: System

Date Created: 02/04/2016

Notes: Conduct a steam trap survey to identify and replace failed traps passing live steam into the condensate piping system.

System: D4010 - Sprinklers



Location: Throughout building

Distress: Life Safety / NFPA / PFD

Category: 2 - Code Compliance

Priority: 1 - Response Time (< 2 yr)

Correction: Install a fire protection sprinkler system

Qty: 67,000.00

Unit of Measure: S.F.

Estimate: \$958,466.34

Assessor Name: System

Date Created: 02/04/2016

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

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

System: A1030 - Slab on Grade



Location: Basement

Distress: Building Envelope Integrity

Category: 3 - Operations / Maint.

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

Correction: Provide dewatering sump basin w/duplex pumps and under slab drain tile

Qty: 4.00

Unit of Measure: Ea.

Estimate: \$283,035.04

Assessor Name: System

Date Created: 02/11/2016

Notes: Provide dewatering sump basins w/duplex pumps and under slab drain tile

System: A2020 - Basement Walls



Location: Basement

Distress: Health Hazard / Risk

Category: 1 - Health & Safety

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

Correction: Mold abatement on basement walls - insert proper quantities

Qty: 8,610.00

Unit of Measure: S.F.

Estimate: \$17,716.67

Assessor Name: System

Date Created: 02/11/2016

Notes: Remediate mold in basement area

System: B2010 - Exterior Walls



Location: Exterior

Distress: Maintenance Required

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: 400.00

Unit of Measure: S.F.

Estimate: \$12,915.80

Assessor Name: System

Date Created: 02/11/2016

Notes: Repair cracks in exterior brick masonry

System: B2030 - Exterior Doors



Location: Throughout

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Remove and replace exterior doors - per leaf

Qty: 10.00

Unit of Measure: Ea.

Estimate: \$80,960.80

Assessor Name: System

Date Created: 02/11/2016

Notes: Replace exterior doors – beyond service life and damaged

System: B2030 - Exterior Doors



Location: Entrance
Distress: Accessibility
Category: 2 - Code Compliance
Priority: 2 - Response Time (2-3 yrs)
Correction: Replace hardware with compliant hardware, paint and weatherstrip - per leaf
Qty: 2.00
Unit of Measure: Ea.
Estimate: \$6,987.28
Assessor Name: System
Date Created: 02/11/2016

Notes: Install accessible door hardware on at least one entrance

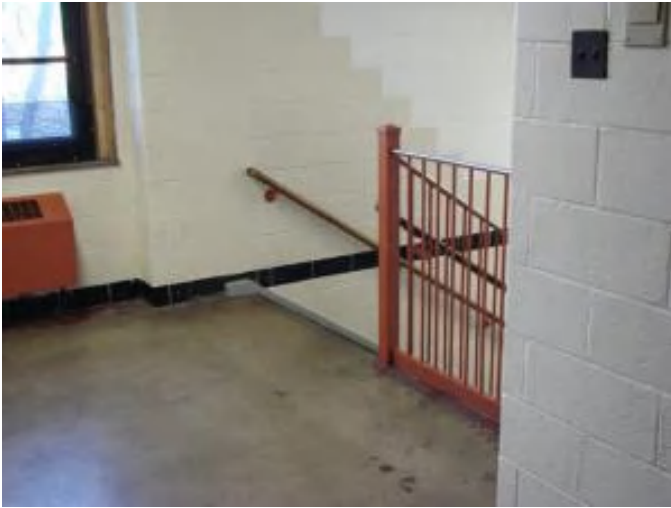
System: C1030 - Fittings



Location: Toilets
Distress: Failing
Category: 3 - Operations / Maint.
Priority: 2 - Response Time (2-3 yrs)
Correction: Remove and replace toilet partitions
Qty: 20.00
Unit of Measure: Ea.
Estimate: \$51,328.09
Assessor Name: System
Date Created: 02/11/2016

Notes: Replace toilet partitions – missing and damaged

System: C3010230 - Paint & Covering



Location: Throughout

Distress: Appearance

Category: 3 - Operations / Maint.

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

Correction: Repair and repaint all interior walls - SF of wall surface

Qty: 107,200.00

Unit of Measure: S.F.

Estimate: \$650,959.12

Assessor Name: System

Date Created: 02/11/2016

Notes: Repaint interior wall surfaces – 80% beyond service life

System: C3020415 - Concrete Floor Finishes



Location: Toilet

Distress: Damaged

Category: 3 - Operations / Maint.

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

Correction: Repair spalled concrete floor surface

Qty: 350.00

Unit of Measure: S.F.

Estimate: \$25,052.35

Assessor Name: System

Date Created: 02/11/2016

Notes: Repair and replace flooring in toilet – damaged

System: D3040 - Distribution Systems



Location: Boiler room
Distress: Damaged
Category: 3 - Operations / Maint.
Priority: 2 - Response Time (2-3 yrs)
Correction: Replace vacuum condensate pump set (duplex)
Qty: 1.00
Unit of Measure: Ea.
Estimate: \$85,863.15
Assessor Name: System
Date Created: 02/04/2016

Notes: Replace the vacuum condensate receiver tank and three (3) associated 2HP boiler feed pumps which are damaged from rust.

System: D5010 - Electrical Service/Distribution



Location: throughout the building
Distress: Beyond Service Life
Category: 3 - Operations / Maint.
Priority: 2 - Response Time (2-3 yrs)
Correction: Remove and Replace Panelboard - 400 amp
Qty: 1.00
Unit of Measure: Ea.
Estimate: \$411,758.77
Assessor Name: System
Date Created: 02/17/2016

Notes: Install new 120V lighting and receptacle panels throughout the building (total of 10)

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

System: C1020 - Interior Doors



Location: Throughout

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Remove and replace interior doors - wood doors with hollow metal frames - per leaf

Qty: 81.00

Unit of Measure: Ea.

Estimate: \$386,417.56

Assessor Name: System

Date Created: 02/11/2016

Notes: Replace interior doors – beyond service life

System: D2010 - Plumbing Fixtures



Location: Restrooms

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Remove and replace or replace water closet - quantify additional units

Qty: 27.00

Unit of Measure: Ea.

Estimate: \$201,836.09

Assessor Name: System

Date Created: 02/04/2016

Notes: Replace twenty-seven (27) water closets, in use beyond their service life, with new code compliant fixtures.

System: D2010 - Plumbing Fixtures



Location: Corridors

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Remove and replace water fountains to meet ADA - includes high and low fountains and new recessed alcove

Qty: 4.00

Unit of Measure: Ea.

Estimate: \$62,771.59

Assessor Name: System

Date Created: 02/04/2016

Notes: Replace four (4) drinking fountains in the corridors. These units are beyond their service life and most are NOT accessible type.

System: D2010 - Plumbing Fixtures



Location: Restrooms

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Remove and replace or replace wall hung urinals

Qty: 16.00

Unit of Measure: Ea.

Estimate: \$53,105.34

Assessor Name: System

Date Created: 02/04/2016

Notes: Replace sixteen (16) urinals, in use beyond their service life, with new low flow fixtures.

System: D2010 - Plumbing Fixtures



Location: Restrooms

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Remove and replace or replace lavatory - quantify accessible if required

Qty: 3.00

Unit of Measure: Ea.

Estimate: \$16,485.73

Assessor Name: System

Date Created: 02/04/2016

Notes: Replace three (3) lavatories, in use beyond their service life, with new code compliant fixtures.

System: D2030 - Sanitary Waste



Location: Throughout 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: 67,000.00

Unit of Measure: S.F.

Estimate: \$328,685.26

Assessor Name: System

Date Created: 02/04/2016

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: D2040 - Rain Water Drainage



Location: Throughout building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Inspect internal rain water drainage piping and replace pipe - based on SF of multi-story building - insert SF of building

Qty: 67,000.00

Unit of Measure: S.F.

Estimate: \$297,106.82

Assessor Name: System

Date Created: 02/04/2016

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

System: D3040 - Distribution Systems



Location: Classrooms

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Replace classroom unit ventilator (htg/clg coils, 5 tons, 2,000 CFM)

Qty: 30.00

Unit of Measure: Ea.

Estimate: \$1,496,360.18

Assessor Name: System

Date Created: 02/04/2016

Notes: Remove the existing unit ventilators and install units with hot and chilled water coils and integral heat exchangers to introduce outdoor air to the building.

System: D3040 - Distribution Systems



Location: Mechanical closet

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Replace utility set exhaust fan (5 HP)

Qty: 5.00

Unit of Measure: Ea.

Estimate: \$180,619.58

Assessor Name: System

Date Created: 02/04/2016

Notes: Replace five (5) exhaust fans, located on the first and third floors, serving the restrooms which are well beyond their service lives.

System: D3040 - Distribution Systems



Location: Roof

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Replace rooftop gravity ventilator units - select the proper type and size

Qty: 13.00

Unit of Measure: Ea.

Estimate: \$25,040.98

Assessor Name: System

Date Created: 02/04/2016

Notes: Replace thirteen (13) roof mounted gravity ventilators which are beyond their service lives.

System: D3060 - Controls & Instrumentation



Location: Throughout building

Distress: Failing

Category: 3 - Operations / Maint.

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

Correction: Replace pneumatic controls with DDC (75KSF)

Qty: 67,000.00

Unit of Measure: S.F.

Estimate: \$1,437,287.57

Assessor Name: System

Date Created: 02/04/2016

Notes: Replace the pneumatic controls for the HVAC systems with modern DDC modules, valves and actuators to improve reliability and energy efficiency. Provide a new building automation system (BAS) with communication interface to the preferred system in use throughout the District.

System: D5020 - Lighting and Branch Wiring



Location: throughout the building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Replace Lighting Fixtures (SF)

Qty: 0.00

Unit of Measure: S.F.

Estimate: \$573,215.62

Assessor Name: System

Date Created: 02/17/2016

Notes: Install new lighting system for 80% of the building.
67,000 SF x 80% = 53,600 SF

System: D5020 - Lighting and Branch Wiring



Location: throughout the building

Distress: Inadequate

Category: 4 - Capital Improvement

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

Correction: Replace Wiring Devices (SF) - surface mounted conduit and boxes

Qty: 0.00

Unit of Measure: S.F.

Estimate: \$349,724.15

Assessor Name: System

Date Created: 02/17/2016

Notes: Install new receptacles for 80% of the building.
67,000 SF x 80% = 53,600 SF

System: D5030 - Communications and Security



Location: throughout the building

Distress: Health Hazard / Risk

Category: 1 - Health & Safety

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

Correction: Replace fire alarm system

Qty: 1.00

Unit of Measure: S.F.

Estimate: \$372,125.88

Assessor Name: System

Date Created: 02/17/2016

Notes: Install new automated/addressable FA system.

System: D5090 - Other Electrical Systems



Location: throughout the building
Distress: Beyond Service Life
Category: 3 - Operations / Maint.
Priority: 3 - Response Time (3-4 yrs)
Correction: Replace Emergency/Exit Lighting
Qty: 1.00
Unit of Measure: Ea.
Estimate: \$247,633.42
Assessor Name: System
Date Created: 02/17/2016

Notes: Install new exit lights and emergency lights.

System: D5090 - Other Electrical Systems

This deficiency has no image.

Location: electrical room
Distress: Beyond Service Life
Category: 3 - Operations / Maint.
Priority: 3 - Response Time (3-4 yrs)
Correction: Replace standby generator system
Qty: 1.00
Unit of Measure: Ea.
Estimate: \$175,078.67
Assessor Name: System
Date Created: 02/17/2016

Notes: Install a new Emergency generator

Note: There is no picture attached since presently there is no emergency generator in school.

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

System: B2020 - Exterior Windows



Location: Throughout

Distress: Energy Efficiency

Category: 4 - Capital Improvement

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

Correction: Remove and replace double slider windows

Qty: 345.00

Unit of Measure: Ea.

Estimate: \$1,740,919.72

Assessor Name: System

Date Created: 02/11/2016

Notes: Replace exterior widows for energy efficiency

System: C1030 - Fittings



Location: Throughout

Distress: Inadequate

Category: 4 - Capital Improvement

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

Correction: Replace missing or damaged signage - insert the number of rooms

Qty: 60.00

Unit of Measure: Ea.

Estimate: \$16,254.75

Assessor Name: System

Date Created: 02/11/2016

Notes: Install interior ID signage

System: D2010 - Plumbing Fixtures



Location: Corridors
Distress: Beyond Service Life
Category: 3 - Operations / Maint.
Priority: 4 - Response Time (4-5 yrs)
Correction: Remove and replace wall janitor or mop sink - insert the quantity
Qty: 3.00
Unit of Measure: Ea.
Estimate: \$23,594.12
Assessor Name: System
Date Created: 02/04/2016

Notes: Replace three (3) service sinks, located in janitor closets on each floor, which are beyond their service lives.

System: D2020 - Domestic Water Distribution



Location: Throughout building
Distress: Beyond Service Life
Category: 3 - Operations / Maint.
Priority: 4 - Response Time (4-5 yrs)
Correction: Replace domestic water piping (75 KSF)
Qty: 67,000.00
Unit of Measure: S.F.
Estimate: \$339,512.78
Assessor Name: System
Date Created: 02/04/2016

Notes: Hire a qualified contractor to perform a detailed inspection of the domestic water piping, in use for an unknown amount of time, and replace any damaged piping.

System: D5010 - Electrical Service/Distribution



Location: electrical room

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Replace Service Transformer, Add Switchboard

Qty: 0.00

Unit of Measure: Ea.

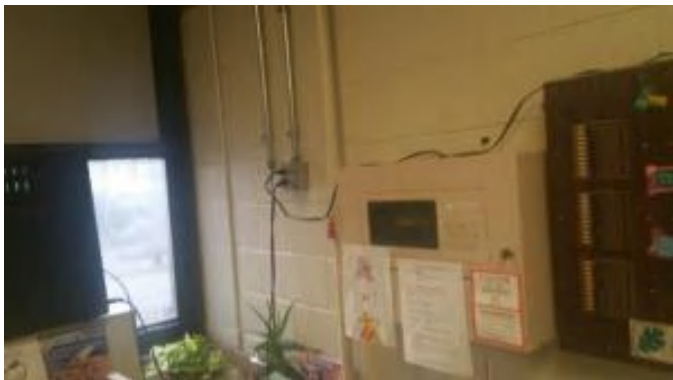
Estimate: \$298,401.02

Assessor Name: System

Date Created: 02/17/2016

Notes: Install a new and upgraded electrical service for this school to handle existing loads plus any additional mechanical loads.

System: D5030 - Communications and Security



Location: throughout the building

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Replace clock/program system

Qty: 0.00

Unit of Measure: Ea.

Estimate: \$238,589.19

Assessor Name: System

Date Created: 02/17/2016

Notes: Install new clock system

System: D5030 - Communications and Security



Location: throughout the building

Distress: Health Hazard / Risk

Category: 1 - Health & Safety

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

Correction: Add/Replace Video Surveillance System

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$142,768.33

Assessor Name: System

Date Created: 02/17/2016

Notes: Install additional video surveillance system for indoor and outdoor.

System: E1020 - Institutional Equipment



Location: Auditorium

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Add/Replace Stage Theatrical Lighting System

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$119,253.93

Assessor Name: System

Date Created: 02/17/2016

Notes: Install an upgraded auditorium stage lighting, lighting control and sound system.

Priority 5 - Response Time (> 5 yrs):

System: D3030 - Cooling Generating Systems



Location: Throughout building

Distress: Inadequate

Category: 4 - Capital Improvement

Priority: 5 - Response Time (> 5 yrs)

Correction: Install chilled water system with distribution piping and pumps. (+75KSF)

Qty: 67,000.00

Unit of Measure: S.F.

Estimate: \$1,051,042.97

Assessor Name: System

Date Created: 02/04/2016

Notes: Remove the window air conditioning units and install a 190 ton air-cooled chiller with chilled water distribution piping and pumps located in a mechanical room to supply more reliable air conditioning for the building with a much longer service life.

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: 360.00

Unit of Measure: Seat

Estimate: \$513,153.72

Assessor Name: System

Date Created: 02/04/2016

Notes: Provide ventilation for the Auditorium by installing a fan coil air handling unit hung from the structure with outdoor air ducted to the unit from louvers in window openings.

System: D3040 - Distribution Systems



Location: Gymnasium/Cafeteria
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: S.F.
Estimate: \$344,860.27
Assessor Name: System
Date Created: 02/04/2016

Notes: Provide ventilation for the Gymnasium/Cafeteria by installing a fan coil air handling unit hung from the structure with outdoor air ducted to the unit from louvers in the window openings.

System: D3040 - Distribution Systems



Location: Administration offices
Distress: Building / MEP Codes
Category: 2 - Code Compliance
Priority: 5 - Response Time (> 5 yrs)
Correction: Install HVAC unit for Administration (2000 students).
Qty: 596.00
Unit of Measure: Student
Estimate: \$257,962.91
Assessor Name: System
Date Created: 02/04/2016

Notes: Provide ventilation for the administration offices by installing a fan coil air handling unit hung from the structure with outdoor air ducted to the unit from louvers in window openings.

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, hot water, gross output, 5256 MBH, includes burners, controls and insulated jacket, packaged | 2.00 | Ea. | Boiler Room | HB Smith | 4500A-S/W-15 | | | 35 | 2004 | 2039 | \$112,817.00 | \$248,197.40 |
| D3020 Heat Generating Systems | Boiler, gas/oil combination, cast iron, hot water, gross output, 5256 MBH, includes burners, controls and insulated jacket, packaged | 2.00 | Ea. | Boiler Room | HB Smith | 4500A-S/W-15 | | | 35 | 2004 | 2039 | \$112,817.00 | \$248,197.40 |
| D5010 Electrical Service/Distribution | Load interrupter switch, 2 position, 300 kVA & below, 13.8 kV, 600 amp w/CLF fuses, NEMA 1 | 1.00 | Ea. | electrical room | | | | | 30 | 1952 | 2047 | \$42,600.60 | \$46,860.66 |
| D5010 Electrical Service/Distribution | Panelboards, 3 pole 3 wire, main lugs, 240 V, 400 amp, no main breaker | 3.00 | Ea. | throughout the building | | | | | 30 | 1952 | 2047 | \$2,297.70 | \$7,582.41 |
| | | | | | | | | | | | | Total: | \$550,837.87 |

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): | 77,400 |
| Year Built: | 1952 |
| Last Renovation: | |
| Replacement Value: | \$1,435,770 |
| Repair Cost: | \$442,028.80 |
| Total FCI: | 30.79 % |
| Total RSLI: | 67.62 % |



Description:

Attributes:

General Attributes:

| | | | |
|----------|---------|----------|---------|
| Bldg ID: | S453001 | Site ID: | S453001 |
|----------|---------|----------|---------|

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 | 55.66 % | 23.81 % | \$261,700.68 |
| G40 - Site Electrical Utilities | 106.67 % | 53.56 % | \$180,328.12 |
| Totals: | 67.62 % | 30.79 % | \$442,028.80 |

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 \$ |
|--------------|--------------------------------|---------------|------|--------|------|----------------|------------------------|-------------------|----------------|----------------|-----|-----|---------------------|----------------------|
| G2010 | Roadways | \$11.52 | S.F. | | 30 | | | | 0.00 % | 0.00 % | | | | \$0 |
| G2020 | Parking Lots | \$7.65 | S.F. | 10,200 | 30 | 1995 | 2025 | | 33.33 % | 0.00 % | 10 | | | \$78,030 |
| G2030 | Pedestrian Paving | \$11.52 | S.F. | 55,500 | 40 | 1987 | 2027 | | 30.00 % | 19.88 % | 12 | | \$127,123.61 | \$639,360 |
| G2040 | Site Development | \$4.36 | S.F. | 77,400 | 25 | 1987 | 2012 | 2042 | 108.00 % | 39.88 % | 27 | | \$134,577.07 | \$337,464 |
| G2050 | Landscaping & Irrigation | \$3.78 | S.F. | 11,700 | 15 | 1952 | 1967 | 2025 | 66.67 % | 0.00 % | 10 | | | \$44,226 |
| G4020 | Site Lighting | \$3.58 | S.F. | 77,400 | 30 | 1952 | 1982 | 2047 | 106.67 % | 35.33 % | 32 | | \$97,904.60 | \$277,092 |
| G4030 | Site Communications & Security | \$0.77 | S.F. | 77,400 | 30 | 1952 | 1982 | 2047 | 106.67 % | 138.30 % | 32 | | \$82,423.52 | \$59,598 |
| Total | | | | | | | | | 67.62 % | 30.79 % | | | \$442,028.80 | \$1,435,770 |

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.

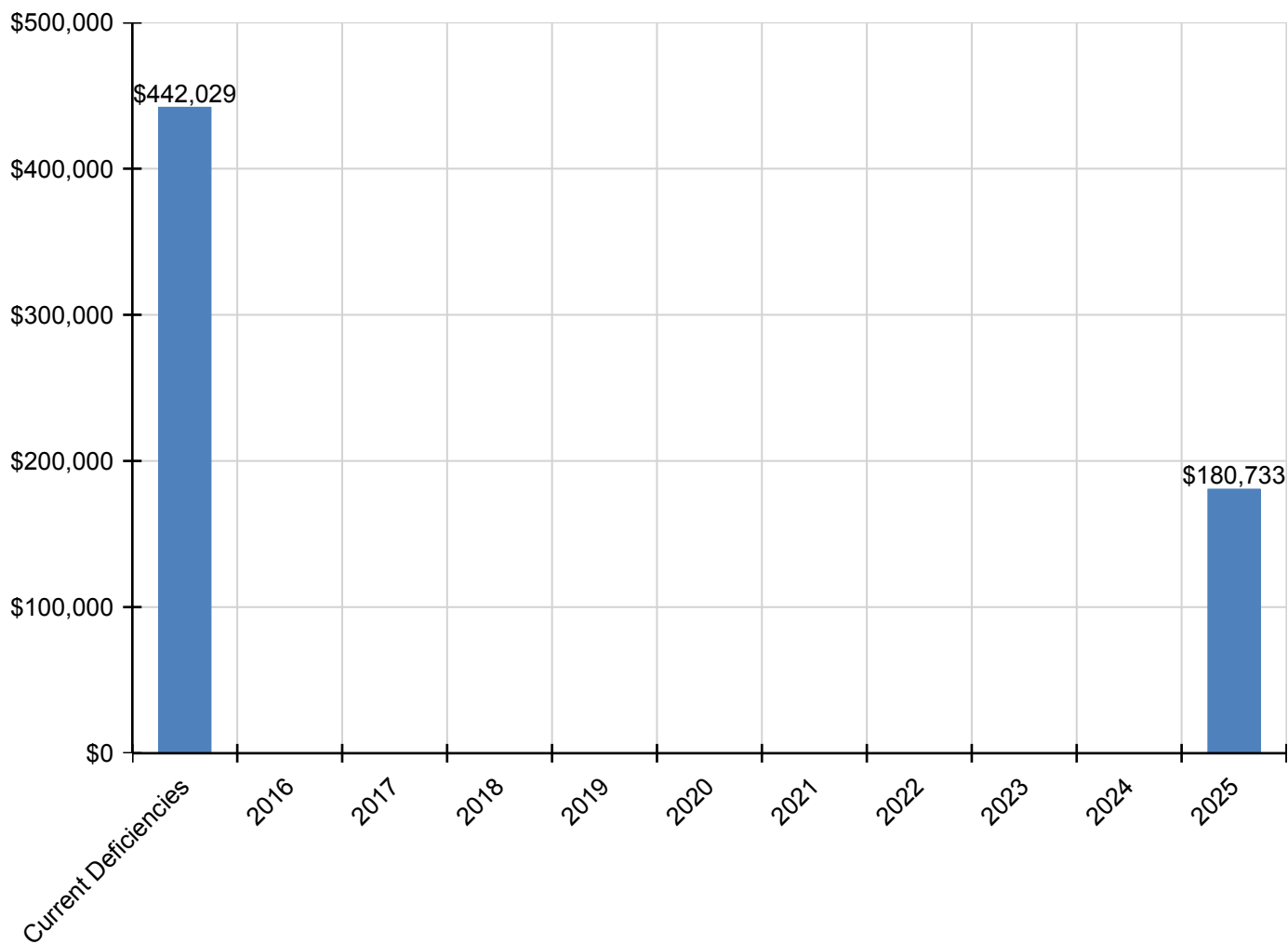
Inflation Rate: 3%

| System | Current Deficiencies | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | Total |
|--|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------------|------------------|
| Total: | \$442,029 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$180,733 | \$622,761 |
| 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 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$115,352 | \$115,352 |
| G2030 - Pedestrian Paving | \$127,124 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$127,124 |
| G2040 - Site Development | \$134,577 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$134,577 |
| G2050 - Landscaping & Irrigation | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$65,380 | \$65,380 |
| G40 - Site Electrical Utilities | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| G4020 - Site Lighting | \$97,905 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$97,905 |
| G4030 - Site Communications & Security | \$82,424 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$82,424 |

* Indicates non-renewable system

Forecasted Sustainment Requirement

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

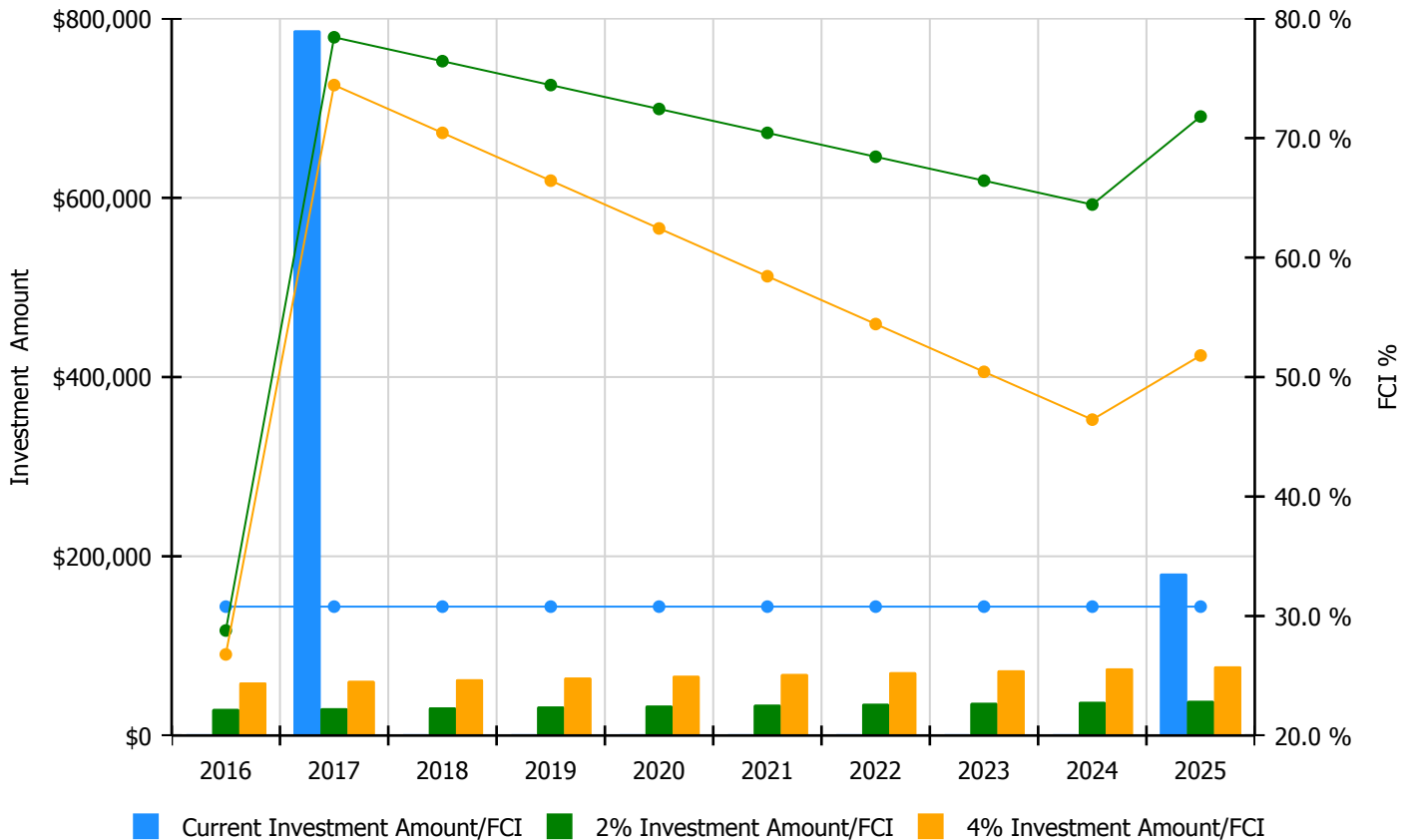


10 Year FCI Forecast by Investment Scenario

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

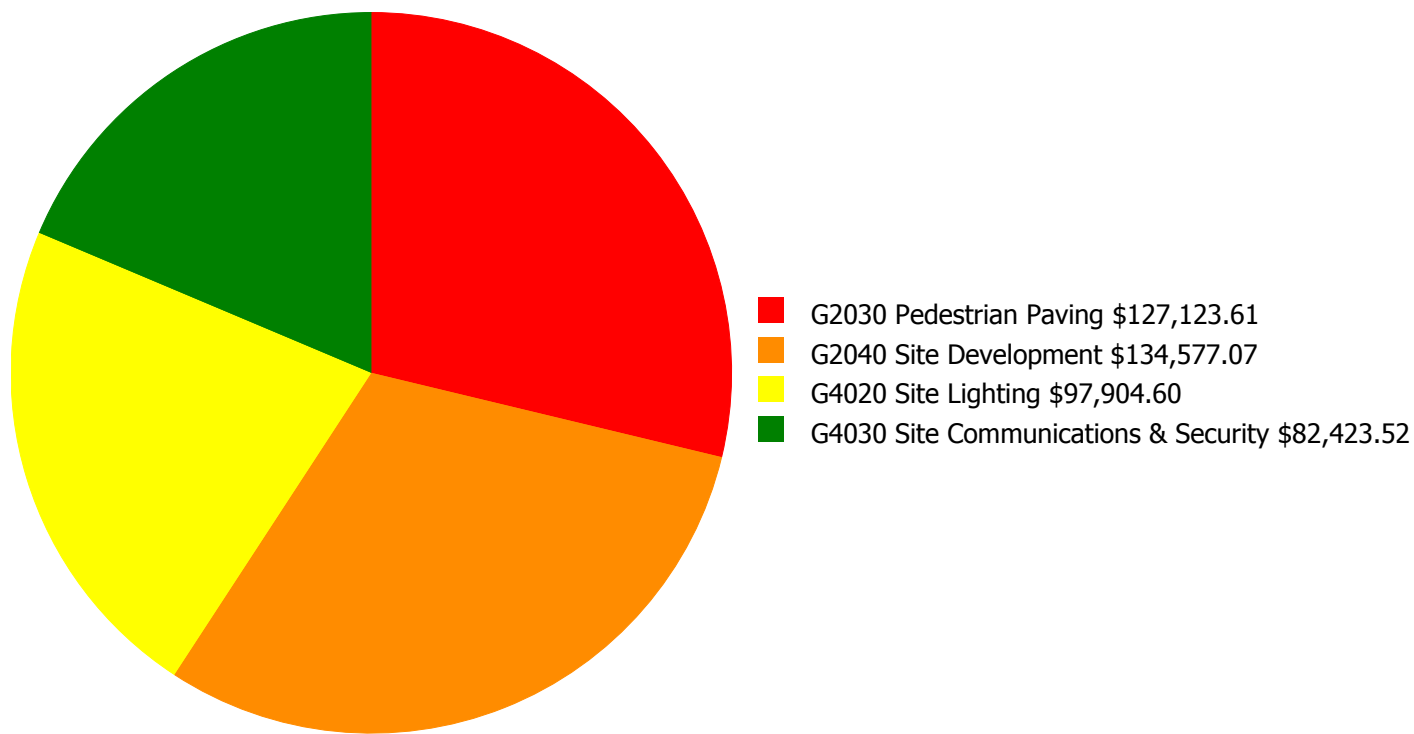
Facility Investment vs. FCI Forecast



| Year | Investment Amount Current FCI - 30.79% | 2% Investment | | 4% Investment | |
|---------------|---|---------------------|---------|---------------------|---------|
| | | Amount | FCI | Amount | FCI |
| 2016 | \$0 | \$29,577.00 | 28.79 % | \$59,154.00 | 26.79 % |
| 2017 | \$786,731 | \$30,464.00 | 78.44 % | \$60,928.00 | 74.44 % |
| 2018 | \$0 | \$31,378.00 | 76.44 % | \$62,756.00 | 70.44 % |
| 2019 | \$0 | \$32,319.00 | 74.44 % | \$64,639.00 | 66.44 % |
| 2020 | \$0 | \$33,289.00 | 72.44 % | \$66,578.00 | 62.44 % |
| 2021 | \$0 | \$34,288.00 | 70.44 % | \$68,575.00 | 58.44 % |
| 2022 | \$0 | \$35,316.00 | 68.44 % | \$70,633.00 | 54.44 % |
| 2023 | \$0 | \$36,376.00 | 66.44 % | \$72,752.00 | 50.44 % |
| 2024 | \$0 | \$37,467.00 | 64.44 % | \$74,934.00 | 46.44 % |
| 2025 | \$180,733 | \$38,591.00 | 71.80 % | \$77,182.00 | 51.80 % |
| Total: | \$967,463 | \$339,065.00 | | \$678,131.00 | |

Deficiency Summary by System

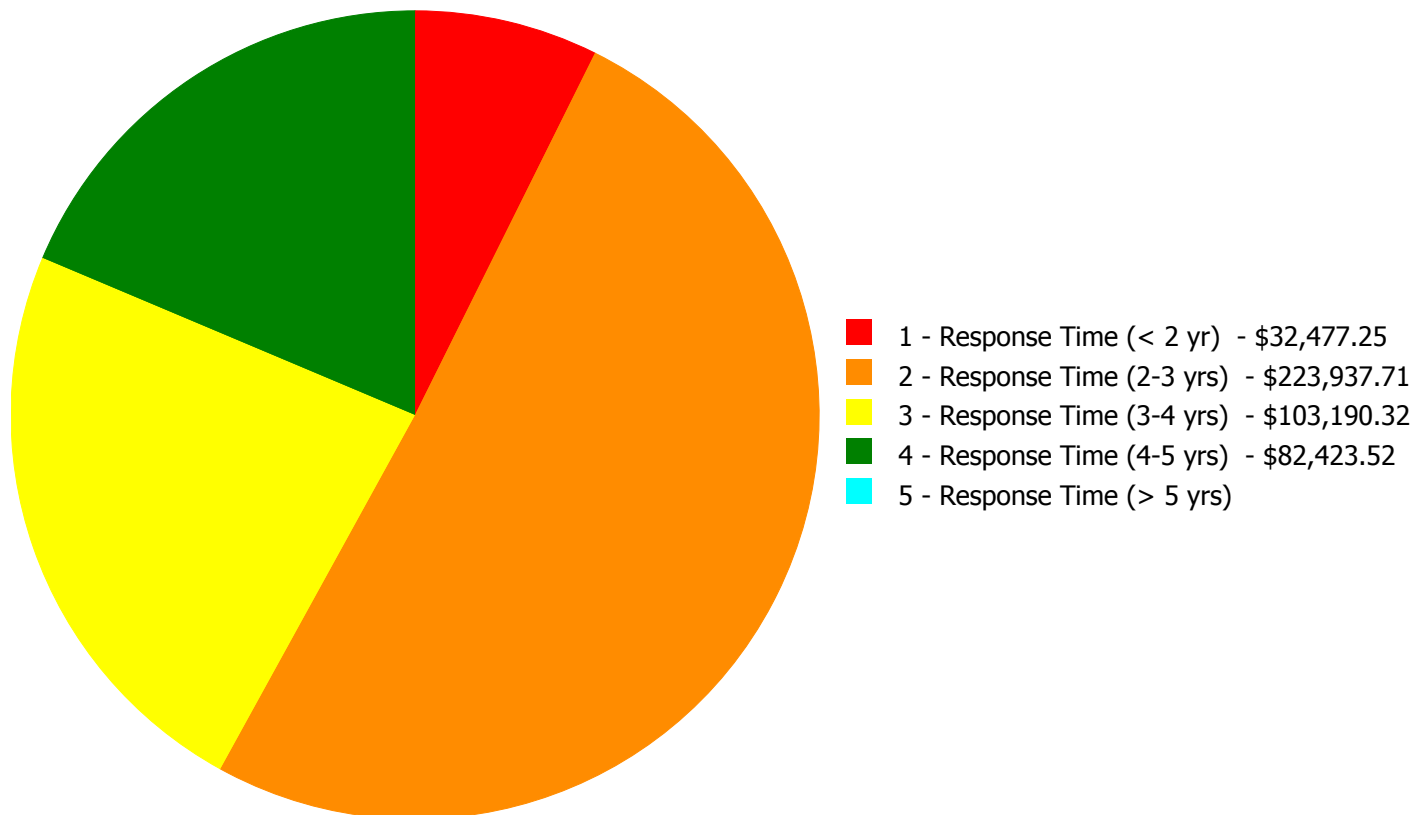
Current deficiencies included assemblies that have reached or exceeded their design life or components of the assemblies that are in need of repair. Assemblies that have reached their design life are identified as current deficiencies and assigned the distress 'Beyond Useful Life'. The following chart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



Budget Estimate Total: \$442,028.80

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: \$442,028.80

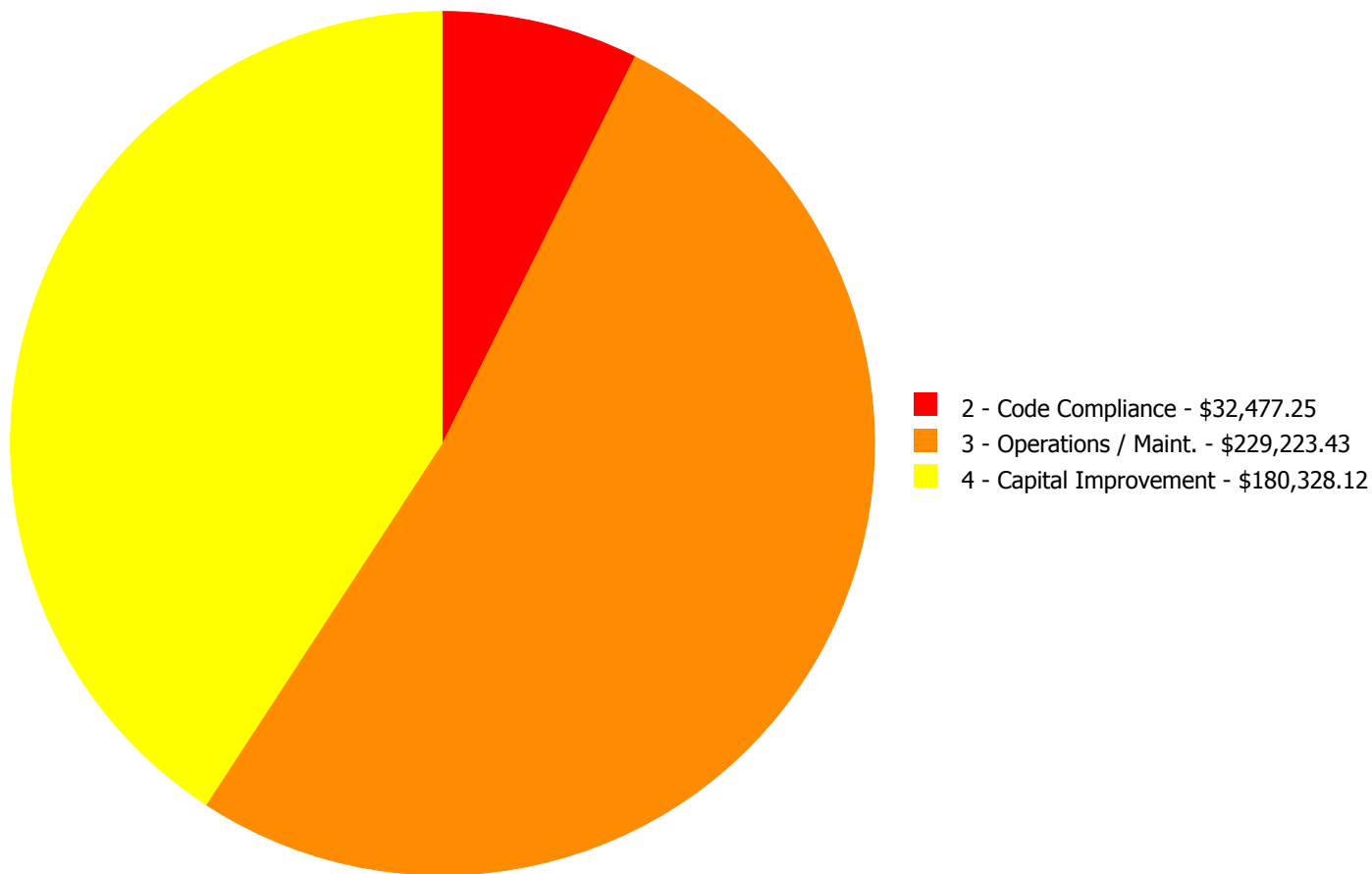
Deficiency By Priority Investment Table

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 |
|-------------|--------------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------|
| G2030 | Pedestrian Paving | \$32,477.25 | \$89,360.64 | \$5,285.72 | \$0.00 | \$0.00 | \$127,123.61 |
| G2040 | Site Development | \$0.00 | \$134,577.07 | \$0.00 | \$0.00 | \$0.00 | \$134,577.07 |
| G4020 | Site Lighting | \$0.00 | \$0.00 | \$97,904.60 | \$0.00 | \$0.00 | \$97,904.60 |
| G4030 | Site Communications & Security | \$0.00 | \$0.00 | \$0.00 | \$82,423.52 | \$0.00 | \$82,423.52 |
| | Total: | \$32,477.25 | \$223,937.71 | \$103,190.32 | \$82,423.52 | \$0.00 | \$442,028.80 |

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: \$442,028.80

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



Location: 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: 25.00

Unit of Measure: L.F.

Estimate: \$32,477.25

Assessor Name: Craig Anding

Date Created: 02/11/2016

Notes: Install accessible ramp on at least one main entrance

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

System: G2030 - Pedestrian Paving



Location: Play yard

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: 6,213.00

Unit of Measure: S.F.

Estimate: \$89,360.64

Assessor Name: Iraj Boroumand

Date Created: 02/11/2016

Notes: Repair play yard concrete – damaged

System: G2040 - Site Development



Location: Yard

Distress: Beyond Service Life

Category: 3 - Operations / Maint.

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

Correction: Replace chain link fence - 6' high

Qty: 1,500.00

Unit of Measure: L.F.

Estimate: \$134,577.07

Assessor Name: Iraj Boroumand

Date Created: 02/11/2016

Notes: Replace chain link fencing surrounding site – beyond service life

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

System: G2030 - Pedestrian Paving



Location: Playground

Distress: Failing

Category: 3 - Operations / Maint.

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

Correction: Remove and replace resilient playground surface

Qty: 200.00

Unit of Measure: S.F.

Estimate: \$5,285.72

Assessor Name: Iraj Boroumand

Date Created: 02/11/2016

Notes: Replace playground fall protection surface – damaged

System: G4020 - Site Lighting



Location: grounds

Distress: Inadequate

Category: 4 - Capital Improvement

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

Correction: Add Site Lighting - pole mounted - select the proper light and pole

Qty: 1.00

Unit of Measure: Ea.

Estimate: \$97,904.60

Assessor Name: Iraj Boroumand

Date Created: 02/17/2016

Notes: Install additional pole-mounted lights for the grounds

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

System: G4030 - Site Communications & Security



Location: grounds

Distress: Inadequate

Category: 4 - Capital Improvement

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

Correction: Add Site Paging System

Qty: 0.00

Unit of Measure: Ea.

Estimate: \$82,423.52

Assessor Name: Iraj Boroumand

Date Created: 02/17/2016

Notes: Install additional exterior speakers for the grounds

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 |

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| | |
|-------------------------|---|
| 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 |

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| | |
|---------------------------------|---|
| 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 |

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| | |
|--|--|
| 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 |
| F | 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. |

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|-------------------------|---|
| 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 |

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|--------------|--|
| 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 |
| L | Length (usually feet) |
| LCC | Life Cycle Costing |
| LDC | Local Distribution Company |
| LEED | Leadership in Energy and Environmental Design |
| LEED EB | LEED for Existing Buildings |

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| 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) |
| Lu | 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. |

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| 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 | Photovoltaic system |

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| 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 |

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| 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 |

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| 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 |