



OAKLAND COMMUNITY COLLEGE
A VISION OF EXCELLENCE IN THE 21st CENTURY

FIVE YEAR CAPITAL OUTLAY MASTER PLAN

Fiscal Year 2018 (7/1/17 – 6/30/18)

Through

Fiscal Year 2022 (7/1/21 – 6/30/22)

Section I

Mission Statement

Mission Statement

Oakland Community College is a student-centered institution which provides high quality learning opportunities and services for individuals, communities and organizations on an accessible, affordable basis.

Strategic Priorities

Strategic priorities are performance areas where investments of resources will add the most value to advancing student success and achievement of our vision.

- College Readiness (Developmental Education)
- Employment Readiness (Career and Technical Programs)
- Transfer Readiness
- Financial Accountability

Vision

OCC is a comprehensive institution of higher learning that effectively meets community needs and student interest in a measurable manner, promoting student success.

Student Success

Student success is the exploration, identification, and achievement of personal and academic goals resulting in college readiness, credential/certificate/degree completion, and/or employment.

Goals

Oakland Community College will dedicate itself to continuously aligning its activities and educational offerings with its mission, demonstrated community need, responsible resource allocation and practices leading to student success. The following guiding principles listed under each of these four main goals identify the values used in the approach to planning changes to reach these goals.

- Align with our mission
 - The college meets community need with curriculum and services that are commensurate with its mission as a public two-year post-secondary institution.
 - The college's primary service region is Oakland County.
 - Our students are those individuals who have a reasonable likelihood of directly benefiting from the curriculum and services offered by the college that supports student success.
 - Curriculum and related services are to be used for educational purposes and not for personal financial gain.

- Align with community need
 - Offer quality curriculum which align with local labor market needs.
 - Offer quality curriculum which align with external professional standards.
 - Evaluate curricula systematically using consistent processes and procedures.
 - Plan curricula comprehensively in consideration of other curricular needs and resources.
 - Offer programs that lead to occupations that will provide for a sustainable living in Oakland County.
 - Curricular processes are informed by appropriate data and collaboratively vetted by administration and faculty.
- Responsible resource allocation
 - The extent to which the college is able to meet community need is proportional to available resources. As resources increase and decrease, so does the college's ability to meet community need.
 - Offer curriculum which operates at a high section fill rate.
 - Establish minimum and maximum enrollment targets, based largely on the level of support services available.
- Student success practices
 - Offer programs which provide students a well-defined guided pathway to completion and employment.
 - Offer curriculum which is designed to promote student persistence, transfer, and completion.
 - Actively increase student's interest in curricular offerings, thereby increasing engagement and completion.

To achieve our goals and subsequently meet our vision and ultimately mission, the college uses two processes for planning and improving services and offerings. The first is the Educational Master Plan process, which looks are big level initiatives that are not already covered in a standing process and the second are the standing processes for improvement and evaluation of curriculum referred to here as the Curriculum Life Cycle.

Educational Master Plan (EMP)

The following goals were established through a series of open forums involving faculty and college staff and developed into objectives to further articulate the College's Mission and Strategic Plan. The goals were given frameworks that applied standardize reporting and deliverables. These have been approved by the Board of Trustees with quarterly reports to update the college community on its progress.

The College's Educational Master Plan (EMP) is comprised of the following 11 objectives:

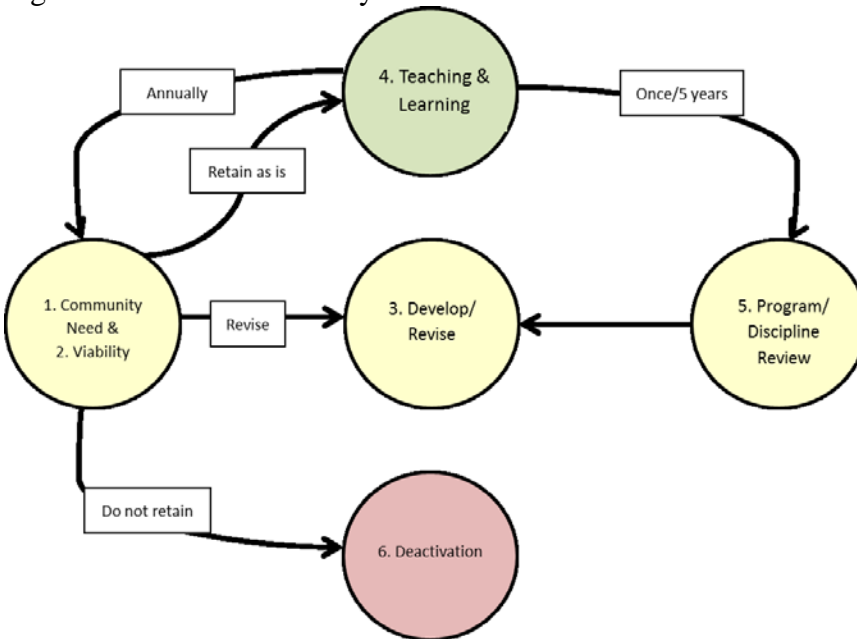
1. Provide developmental education program to cultivate the knowledge and skills necessary to succeed in college.
2. Review and revise academic offerings to ensure appropriate student learning and academic quality as directed by federal, state and accrediting agencies. **(COMPLETED)**
3. Set the direction for all curriculum to meet community needs and student interest. **(COMPLETED)**
4. Create a mechanism for consistent, ongoing college-wide assessment of student learning and success through examination of course, program and general education outcomes to inform pedagogical and curricular improvement.
5. Develop common course outcomes to provide consistency in learning outcomes regardless of location or delivery.
6. Develop and implement an outreach plan to aid in program-targeted recruitment.
7. Enhance early college and dual enrollment programs to ensure the ability of high school students to acquire college credit at OCC.
8. Develop strategic program of distance learning to increase access for our students and obtain Higher Learning Commission approval to offer online programming to ensure quality accredited distance learning opportunities.
9. Develop a program that offers international and intercultural learning opportunities to promote student success through a better understanding of and participation in the global forces shaping our lives.
10. Create processes and best practices to increase student completion through improved and integrated student services; development and clear communication of academic and career pathways; and development of a faculty academy focused on student classroom engagement.
11. Develop initiatives that will enhance diversity, inclusion and social justice at the institution.

Curriculum Life Cycle (CLC)

In the CLC framework, new and existing curricula move through various processes of review, revision, implementation and for some, deactivation (figure 1). This purpose of the CLC is to align and link the various curricular processes to ensure overlap where appropriate and avoid utilizing unnecessary resources in planning phases. The CLC is designed with three main goals:

- Conduct holistic curricular planning cyclically
- Maintain a quality curriculum that meets local community need
- Fulfill institutional priorities

Figure 1. Curriculum Life Cycle



Section II

Instructional Programming

OCC is a vital, collaborative partner in preparing Oakland County residents for available employment in Oakland County or advanced study at four-year post-secondary institutions. By offering programs that prepare individuals for high wage, high skill, high demand occupations available in the county, OCC contributes to the continued strength and success of Oakland County's economy. OCC utilizes cyclical, holistic, data driven processes to review curricula to ensure our offerings meet the needs of the community. Within this process, OCC examines data from a seven county region: Oakland, Genesee, Lapeer, Livingston, Macomb, Washtenaw, and Wayne Counties.

Within the OCC service region, there are 140,872 projected annual job openings across all occupations and education levels for 2016-2021. When OCC focuses on just those occupations most likely to need some post-secondary education but less than a bachelor's degree, there are approximately 51,763 job openings projected each year for the next five years in our region (where 25% or more of persons working have some college or an associate's degree).

OCC currently offers programs that lead to occupations supporting approximately 20 different occupational clusters with a total of approximately 14,960 job openings in the region. For these occupations, the average of the median wages is \$25.09/hour with 73% of these occupations showing a median wage \geq \$16.00/hour.

The ten occupations with the largest number of projected job openings include:

1. Registered Nurses
2. General and Operations Managers
3. Accountants and Auditors
4. Cooks, Restaurant
5. Postsecondary Teachers
6. Medical Assistants
7. Industrial Engineers
8. Computer User Support Specialists
9. Automotive Service Technicians and Mechanics
10. Bookkeeping, Accounting, and Auditing Clerks

In addition to considering the local economy, OCC also believes it is important to consider the regional supply in addition to demand. While there are approximately 15,000 openings related to programs OCC offers, the regional competition is also supplying graduates for many of the same occupations.

Based on regional supply and demand balance, OCC believes their top priorities for increasing enrollment to better meet community need include the following 10 occupational programs:

1. General Accounting
2. Library Technician
3. Culinary Arts
4. Technological Sciences
5. Software Engineering
6. Welding Technology
7. Dental Hygiene

8. Emergency Medical Services
9. Collision Auto Repair
10. Fire Fighter Technology

In addition to the high demand programs above, the large majority of our programs (more than 70% each year) are leading to occupations that are in demand in the local region, given the available supply. There are some programs offered that have adequate regional supply, but the quality and cost of the OCC program exceed that of available alternatives.

OCC is also currently working to create two new programs that have a level of demand in the community. These programs include diesel truck repair and certified nursing assistant. Additional programs are also being investigated annually.

Related to transfer-oriented students, there are 294 active post-secondary agreements (articulation, reverse transfer, consortium, institutional partnership, memorandum of understanding, and reciprocal) with 28 institutions. These agreements cover 51 of the current OCC programs. Business has the largest number of agreements with 19, followed by Criminal Justice (all options) with 17, Computer Information Systems with 16, Management Development with 13, Culinary with 12, and Nursing and Technological Sciences tied with 10 each. Note that there are approximately 58 agreements in development and/or renewal as of this date which are not counted in the above numbers.

In total, OCC has 102 academic certificate and degree programs in 2016-17. Just over 85% of these programs have action strategies on file stemming from reviews conducted by deans, faculty and program staff. Actions include such things as piloting a new campus location for the program, revising the course sequencing or scheduling, revising the content or focus, obtaining equipment, renovating facilities, and improving transferability, to mention a few. Of these actions, around 35% are currently completed and the remaining are in progress.

OCC is currently seeking approval from the Higher Learning Commission (HLC) to offer the Criminal Justice Generalist program in an online format. Fire Fighter Technology and Library Technician are also gearing up to apply for online approval from the HLC in the next few years.

Ten OCC programs are currently accredited by their professional organizations and two additional programs are submitting applications in 2016. OCC is working toward obtaining specialized accreditation or external recognitions from professional organizations for as many programs as possible.

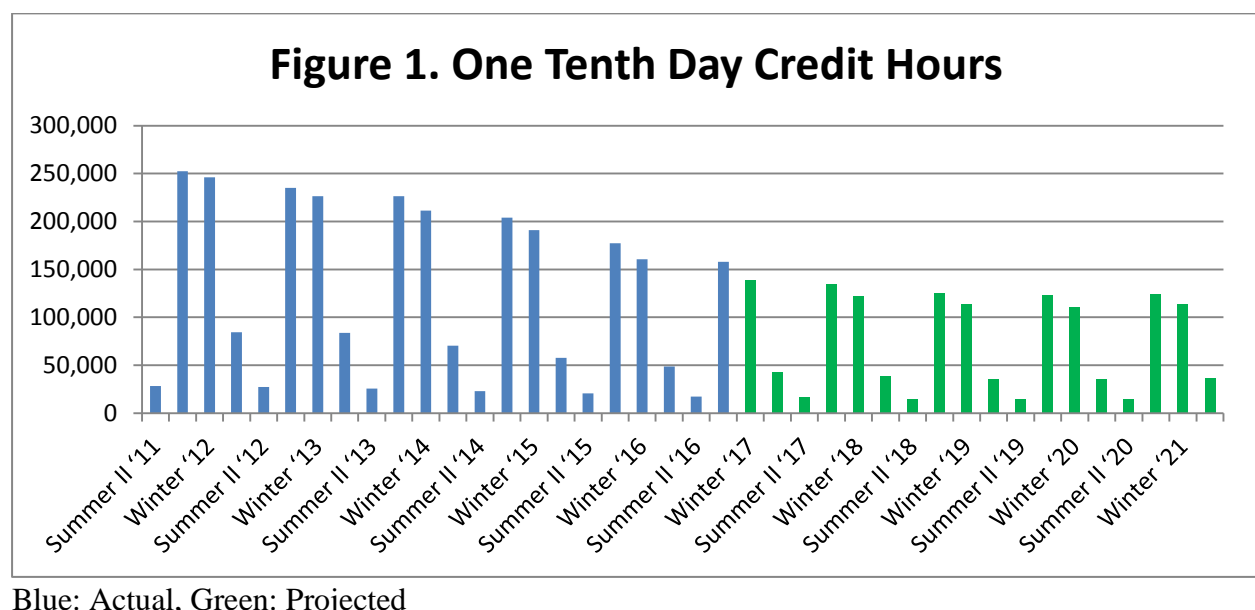
In 2014, OCC received a \$4.5 million grant to purchase equipment for several programs including automotive servicing, collision auto repair, and what will be a new diesel repair program. Before equipment can be installed, the space must be renovated to accommodate the equipment. Plans are currently being developed for a comprehensive renovation of our outdated technology facilities particularly located at the Auburn Hills campus.

Section III

Staffing and Enrollment

It is generally accepted that community college enrollment is in large part driven by the interplay of economic, demographic, social, legislative and funding dynamics. The improving economy and anticipated decline in the number of high school graduates is expected to place continued downward pressure on enrollment as seen in the last five years.

Our forecast anticipates a further major decline in enrollment through 2019-20 as shown in table 1 below. However, the rate of decline is expected to moderate by 2017-18. Our 2016-17 forecasts anticipate a 14% decline in enrollment when compared to 2015-16. Fall 2016 enrollment is trending downward by approximately 11% when compared to the prior year. Despite the downward trend in enrollment, there have been no significant changes over the past 10 years in respect to the proportion of students attending full time and part time. Typically, 73-78% of students in Fall are part time and 75-81% are part time in Winter terms.



The College maintains a contractual limit of 30 seats per course section, although the average seats taken per section are 19.67. The institution is targeting 40-60% of sections taught by a full time faculty member. With these goals in mind and given the size of each discipline historically, the college projects that the current full time faculty staffing levels will be maintained with replacements in high need disciplines as attrition occurs.

Section IV

Facility Assessment

Facility Assessment

A comprehensive facility condition assessment was completed by ISES Corporation in March 2013. This report was performed to accomplish the following objectives:

- Provide an inventory of the college's facilities in a database format to be easily updated and maintained by OCC personnel and allow for quick access to facilities information.
- Determine the condition of the buildings and grounds at OCC and provide the data in a concise format, allowing quick determination of the current replacement value and condition of each facility.
- Determine a Facilities Condition Index (FCI) for each building, each campus and OCC as a whole. The FCI is a benchmark index that rates the condition of existing college buildings and is used by the facilities managers nationwide to quantify and prioritize deferred maintenance projects for capital planning purposes.
- Assist OCC in meeting the goals of its Mission Statement through timely maintenance of the physical backbone of the college – the buildings of OCC.

The following reports (included herein) were prepared by ISES Corporation.

1. ISES Executive Summary – Facility Condition Assessment
 - Identifies the summary condition of each facility
 - Replacement value of existing buildings
 - Utility system conditions
2. ISES Asset Summary
 - Facility infrastructure conditions

EXECUTIVE SUMMARY
OAKLAND COMMUNITY COLLEGE
FACILITY CONDITION ASSESSMENT
March 2013

PREPARED BY:
JONATHAN C. THOMAS, PE
DIRECTOR OF SPECIAL OPERATIONS



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SUMMARY OF CONDITIONS AND CONCLUSIONS

1.1 Introduction

The Oakland Community College District (OCC) was founded in 1964 and opened in 1965. The District consists of five campuses that serve the District's educational mission in Oakland County, MI. These campuses are profiled in the following table:

CAMPUS	YEAR OPENED	ENCLOSED SQUARE FOOTAGE	SPECIALTY
Auburn Hills	1965	627,928	Technology
Highland Lakes	1965	383,343	Healthcare
Orchard Ridge	1967	492,641	Design/Professional Services
Royal Oak	1982	535,872	Arts/Professional Services
Southfield	1980	164,004	Healthcare

OCC also has two business sites within their facilities portfolio. The District Office is located in Bloomfield, MI. This office serves as the main administrative center for the college. The Pontiac Center located in Pontiac, MI houses several college-wide administrative and academic services.

In the third quarter of calendar year 2012, OCC contracted with ISES Corporation to perform Facility Condition Assessment (FCA) services for the District facility portfolio. This contract was awarded during a competitive bidding process. These services were applied to all facilities with the exception of the Pontiac Center. The following observations and conclusions are based on a thorough assessment of 78 facilities and 5 sites by ISES Corporation. This represents the evaluation of over 2.2 million gross square feet.

For the purposes of developing a meaningful analysis of the OCC facilities portfolio, buildings were grouped together into sensible management zones. In the case of OCC, these zones are aligned with the campuses. The list of buildings in each campus is shown in Section 2.1.

The table below breaks down the space usage within the assessed OCC buildings. This distribution is consistent with higher education institutions of its size. Note that a special use type is displayed for the

Combined Regional Emergency Services Training (CREST) facilities at the Auburn Hills campus. These facilities are not normally occupied facilities but are utilized for public safety training programs. Although the CREST facilities require capital improvements and are justified for inclusion in this study, they are utilized in a different manner than the rest of the portfolio.

GROUP	ASSET COUNT	SQUARE FOOTAGE	PCT (%)
Classroom	22	857,510	38.2
Parking Structure	2	330,975	14.8
Laboratory	7	270,363	12.1
Student Union	3	186,276	8.3
Office	7	180,536	8.1
Gymnasium	4	152,788	6.8
Library	3	71,251	3.2
Shops / Trades	9	57,712	2.6
Theater	2	43,383	1.9
Warehouse	11	33,049	1.5
Retail	1	29,909	1.3
CREST	7	28,138	1.3
TOTAL	78	2,241,890	100.0%

The FCA process was supervised by Daniel P. Cherewick, PE, Director of Physical Facilities, OCC. The analysis was directed by Jonathan C. Thomas, PE, Director of Special Operations, ISES Corporation. Survey team members consisting of architectural and engineering inspectors collected, evaluated, and compiled the data for the study.

1.2 Summary of Findings

A. CRV and FCNI Definition and Utilization

The Facility Condition Needs Index (FCNI) provides a relative measure for the objective comparison of building condition. The index is a simple calculation, derived by dividing total project costs (for the total ten-year window covered by the FCA) by the total Current Replacement Value (CRV). When applying the index as an evaluation tool, the lower the number, the better the facility condition. It should also be noted that this is an index, not a percentage. It can, especially in the case of historic facilities, exceed 1.00. The

CRV represents the cost to replace an existing building with one of similar use type and size on the same site. This includes demolition, site preparation, professional fees, and construction costs.

There are two main approaches employed in this summary report of applying the FCNI to analyze the data derived from an FCA. The first approach involves looking at individual facilities. When applying it to a single facility, the lower the FCNI, the better. In terms of assessing where a facility falls within a range of conditions, the following standards can be applied.

INDIVIDUAL BUILDING FCNI RANGE	CONDITION DESCRIPTION
0.00 – 0.10	Excellent condition, typically new construction
0.11 – 0.20	Good condition, renovations occur on schedule
0.21 – 0.30	Fair condition, in need of normal renovation
0.31 – 0.50	Below average condition, major renovation required
0.51 – 0.59	Poor condition, total renovation indicated
0.60 and above	Complete facility replacement indicated

The above ranges represent averages based upon ISES Corporation experience extending over Facility Condition Assessment projects spanning the past 25 plus years. The reader is cautioned, however, to examine each facility independently for mitigating factors (i.e., historic structures, temporary structures, facilities with abnormally low replacement costs, such as warehouses, etc.).

The second approach supported by use of the FCNI employed in this report is for comparing groups of facilities to other groupings. Comparisons in this vein form the basis of analysis for comparing the overall state of facilities to another comparable grouping. Figure 8 in Section 2.3 provides a listing of relevant ISES Corporation historical data for other institutions for which we have provided FCA services. Subsequently, the OCC campuses will be compared with each other using the FCNI.

B. Analysis of Overall Campus Conditions

The FCA process for OCC culminated in a database of deficiencies that should be addressed over the next ten years. For the 78 buildings and 5 sites evaluated for this Executive Summary, ISES identified

\$151,259,842 in project recommendations. When compared to the \$640,509,385 replacement value for the facilities in the study, the subsequent FCNI equals 0.24.

Compared to the sample set derived from ISES client history, the facilities are in average condition. Figure 8 in Section 2.3 shows that OCC has a higher portfolio-wide FCNI than similar institutions. However, it is younger than 82 percent of those same institutions. The expected FCNI for the OCC facilities portfolio is 0.20 based on the comparative data. Figure 9 in Section 2.3 shows that OCC has a below average FCNI but is also younger than the average portfolio in the sample set. Figure 10 in Section 2.3 exhibits that, even though the expected FCNI for the portfolio would be 0.20, OCC is within an acceptable range of the mean, given its average age per square foot.

Figures 11 through 13 in Section 2.3 offer opportunities for analysis at the group level as Figures 1 through 3 did for the portfolio level. The Southfield Campus is in excellent condition, even for its young age. The Highland Lakes Campus and District Office are also in excellent condition, even though they are relatively old. Orchard Ridge is within an acceptable range of average condition for its age. Auburn Hills, although within an acceptable range, is close to being in fair condition for its age. The Royal Oak Campus is in poor condition for its age as a whole.

C. Analysis of Building Conditions

The FCNI Report Cumulative in Section 2.5 outlines the conditions of the individual facilities in descending order by FCNI. If all facilities in the list were considered equal with regard to the mission of the college, a prudent approach would be to apply funding in the order of the buildings on that list. The table on the following page outlines the twelve buildings with the highest FCNIs.

ASSET CODE	NAME	ASSET USE	YEAR BUILT	GSF	CRV	TOTAL PROJECT COSTS	FCNI
ROD	FINE ARTS	CL	1980	30,160	\$9,148,250	\$5,411,891	0.59
HLHH	HIGHLAND HALL	CL	1928	68,741	\$21,077,370	\$11,518,112	0.55
AHF1	GENERAL ASSEMBLY - MAIN AND ADDITION	CL	1970	25,550	\$8,503,810	\$4,644,569	0.55
AHC	JOSEPH E HILL	CL	1970	56,169	\$17,439,910	\$9,179,801	0.53
ROE	LILA R JONES-JOHNSON THEATER	TH	1980	30,750	\$10,451,280	\$5,242,491	0.50
ROA1	CLASSROOM	CL	1980	28,443	\$9,466,680	\$4,430,008	0.47
HLPE	PHYSICAL EDUCATION	GM	1977	35,098	\$9,658,270	\$4,422,748	0.46
AHA	EARL M ANDERSON	CL	1970	104,725	\$29,198,590	\$12,611,175	0.43
AHE	BUSINESS, SCIENCE AND ART	CL	1980	28,819	\$9,591,830	\$3,931,413	0.41
AHMT2	MICHIGAN TECHNICAL ED CTR - ANNEX	WH	2000	10,859	\$2,179,160	\$847,169	0.39
ORH	COMMUNITY ACTIVITY	GM	1977	70,357	\$18,410,320	\$6,929,531	0.38
AHD	GEORGE R MOSHER	CL	1975	52,197	\$16,370,600	\$5,712,591	0.35

The FCNI by Campus report in Section 2.6 illustrates the FCNI rankings by building group. The Auburn Hills Campus has the most subjects in the top twelve. Royal Oaks has the second most. These observations are consistent with those made at the group FCNI level. A potential strategy would be to apply funding to these facilities. Also, they are geographically proximate, and economies of scale could potentially be garnered.

D. Analysis of System Codes

Another viable approach for capital planning is to analyze common building systems for needs. The table on the following page summarizes system project backlog by weight of total backlog. This information was derived from a review of the data in Sections 2.2 and 2.4. Data representing ISES client history statistics has been included for comparative purposes.

Note that the basis for the qualitative judgments in the following analyses is based on statistical metrics. If a proportion is between 0.5 and 0.9 standard deviations away from the mean, it is regarded as being close to out of range. If a proportion is between 1.0 and 1.9 standard deviations away from the mean, it is regarded as being out of range. If proportion is 2.0 standard deviations away or higher, it is regarded as being considerably, or significantly, out of range.

	AC	EL	ES	FS	HE	HV	IS	PL	SI	VT
	-----ALL NUMBERS IN PERCENTAGES-----									
Auburn Hills	1.2	16.8	15.1	4.6	0.0	25.8	19.6	11.0	3.8	2.1
District Office	5.8	9.5	23.2	7.0	0.0	18.5	21.6	11.3	2.9	0.0
Highland Lakes	4.3	17.2	8.4	7.5	0.0	19.8	19.0	12.5	5.4	5.9
Orchard Ridge	3.5	18.6	6.8	12.8	0.4	14.1	17.2	15.4	5.5	5.6
Royal Oak	0.1	19.9	21.5	8.2	0.0	21.4	23.9	2.5	1.4	1.1
Southfield	0.0	21.9	21.2	8.5	0.0	13.5	31.3	0.0	3.8	0.0
OCC Total	2.2	17.9	13.0	8.0	0.1	20.5	19.9	10.9	4.2	3.5
ISES Historical Average	4.3	14.6	11.6	8.0	1.0	31.8	17.3	9.2	0.9	1.3

(AC – Accessibility, EL-Electrical, ES-Exterior Structure, FS-Fire / Life Safety, HE-Health, HV-HVAC, IS-Interior Finishes / Systems, PL-Plumbing, SI-Site, VT-Vertical Transportation)

Accessibility projects are recommended as such to eliminate barriers to disabled individuals and are typically relatively low-cost initiatives. These projects comprise 2.2 percent of the project backlog. Compared with a typical 4.3 percent of the project backlog, OCC appears to be in a relatively solid position with regard to having accessible facilities. The District Office site proportion is higher and close to being out of range from the mean. This site is a viable candidate for accessibility project completion. Over the entire portfolio, restroom renovation and stair safety projects are the most prevalent accessibility projects. Each of these projects appears in approximately 15 percent of the facilities. Interior door accessibility projects are the next most frequent recommendations.

The electrical project backlog, at 17.9 percent, is close to being out of range of the average of 14.6 percent. The Southfield Campus is higher and considerably out of range from the mean. The Royal Oak and Orchard Ridge campuses are higher and out of range from the mean. Interior lighting upgrades are the most frequently occurring electrical projects at a rate of approximately 43 percent of the buildings. Close behind the recommended interior lighting upgrades are major electrical distribution network renovations at a rate of 42 percent of the buildings.

Exterior structure projects are concerned with exterior envelope systems primarily consisting of roofs, exterior walls and finishes, and fenestrations. The proportion of these projects is 13 percent, which is

higher but within range of the average of 11.6 percent. The District Office site is higher and considerably out of range of the mean. The Royal Oak and Southfield campuses are higher and out of range of the mean. These sites are candidates for exterior finish work. The most prevalent needs are roof replacements, which occur at a rate of 68 percent. Exterior wall finishes recommendations occur at a rate of 61 percent of the buildings.

Fire and life safety projects comprise 8 percent of the project backlog, which is exactly the expected proportion. The Orchard Ridge Campus has a proportion of such projects that is out of range and higher than the mean. The campus is a candidate for completion of fire and life safety projects. The most frequently occurring fire / life safety projects are fire alarm system replacements and installations. These occur at a rate of 51 percent of the buildings. Fire alarm systems are typically recommended for replacement at a minimum of fifteen years regardless of component condition. Other aspects such as technological obsolescence factor into such recommendations. Sprinkler system installation projects are the next most prevalent and occur at a rate of 22 percent of the buildings. It is unlikely that the sprinkler system renovation projects will have to be completed unless a major renovation is implemented.

Health related project recommendations within the OCC portfolio are low relative to the sample set. These projects typically revolve around kitchen or laboratory cold box equipment and abatement of asbestos-containing materials (ACM). All of the health related projects in the backlog pertain to food service cold boxes at the Orchard Ridge Campus.

Heating, ventilation, and air conditioning (HVAC) projects comprise 20.5 percent of the backlog, which is under and out of range of the sample set average of 31.8 percent. HVAC projects are typically the most expensive project per square foot. The overall proportion is below the mean and so are the proportions of the individual campuses and sites. The recommendation for replacement of unitary HVAC systems is the most prevalent HVAC project at a rate of 53 percent of the facilities. Central HVAC controls system renovations are the next most prevalent at a rate of 22 percent.

Interior finish and system projects comprise 19.9 percent of the project backlog, which is higher but within range of the expected proportion of 17.3 percent. All groups are above the mean. The Southfield Campus is higher and significantly out of range from the mean. The Royal Oak Campus is higher and out of range from the average. Interior wall finish recommendations occur at a rate of 80 percent, floor finishes occur at a rate of 74 percent, and ceiling finish upgrades occur at a rate of 57 percent. These are fairly benign interior finish projects, which indicate a need for an overall cosmetic update of the finishes throughout the facilities.

Plumbing system projects comprise 10.9 percent of the project backlog, which is higher than the expected 9.2 percent but within statistical range. The Orchard Ridge Campus has a proportion of plumbing needs that is higher and out of range from the average. Highland Lakes, Auburn Hills, and the District Office site are all higher and close to being out of range from the mean. The most prevalent plumbing projects within the backlog involve sanitary and stormwater drain piping inside the facilities. These projects occur at a rate of 38 percent. Domestic water supply piping projects occur at the next highest rate at 34 percent.

Site projects make up less than 4.2 percent of the project backlog. This portion is well above the sample set average of 0.9 percent. This significantly high proportion is due to the fact that the OCC landscaping, hardscape, and site lighting systems were assessed more acutely than for the typical ISES client. The most prevalent site projects are vehicular paving recommendations followed by pedestrian paving improvements.

Vertical transportation projects generally pertain to elevators, escalators, and dumbwaiters. All of these projects in the OCC backlog pertain to passenger or freight elevators. The 3.5 percent proportion of vertical transportation projects is higher and significantly out of range from the expected proportion of 1.3 percent. Highland Lakes and Orchard Ridge are the furthest away from the mean. The proportions for both of these campuses are higher and significantly out of range as well. Auburn Hills is higher and close to being out of range from the mean. Reinvestment in the elevators within these groups of buildings should be considered.

E. Analysis of Project Classifications

The ISES project classifications can indicate the severity of the recommendations within the project backlog. Three project classifications have been applied as follows:

- A. Plant / Program Adaption: Expenditures required to adapt the physical plant to the evolving needs of the institution and to changing codes or standards. These are expenditures beyond normal maintenance. Examples include compliance with changing codes (e.g. accessibility), facility alterations required by changed teaching or research methods, and improvements occasioned by the adoption of modern technology (e.g., the use of personal computer networks).
- B. Deferred Maintenance: Refers to expenditures for repairs which were not accomplished as a part of normal maintenance or capital repair which have accumulated to the point that facility deterioration is evident and could impair the proper functioning of the facility. Costs estimated for deferred maintenance projects should include compliance with applicable codes, even if such compliance requires expenditures beyond those essential to affect the needed repairs. Deferred maintenance projects represent catch up expenses.
- C. Capital Renewal: A subset of regular or normal facility maintenance which refers to major repairs or the replacement / rebuilding of major facility components (e.g., roof replacement at the end of its normal useful life is capital repair; roof replacement several years after its normal useful life is deferred maintenance).

	Plant / Program Adaption	Deferred Maintenance	Capital Renewal
-----ALL NUMBERS IN PERCENTAGES-----			
Auburn Hills	4.8	34.6	60.6
District Office	8.7	36.7	54.6
Highland Lakes	13.1	41.3	45.6
Orchard Ridge	16.2	19.4	64.4
Royal Oak	4.9	44.9	50.2
Southfield	0.0	0.7	99.3
OCC Total	9.3	32.3	58.4
ISES Historical Average	15.8	33.6	50.6

OCC has a lower than average Plant / Program Adaption need. At 9.3 percent, it is close to being out of range from the 15.8 percent expected proportion. Inferences from these data are consistent with the low proportion of accessibility projects. It is also consistent with the low proportion of projects recommended in Year 1 of this assessment scope. This will be discussed in the next section. With the exception of one campus, all of the building groups are below the mean with regard to Plant / Program Adaption proportion. The Orchard Ridge Campus is just above the mean for this project classification.

Deferred Maintenance and Capital Renewal projects are typically inversely proportional. The ratio is typically three Capital Renewal need dollars to every two Deferred Maintenance need dollars. The OCC project backlog is consistent with this proportion, but it is actually closer to two Capital Renewal projects to every Deferred Maintenance project. The OCC Deferred Maintenance proportion is very near the expected value. The Capital Renewal proportion is higher and close to being out of range from the mean. This is a favorable position for OCC overall.

Note that the Royal Oak Campus has the highest proportion of Deferred Maintenance-classified projects. This campus is higher and close to being out of range from the mean. This is an indication of more severe projects at the Royal Oak Campus than at other campuses.

F. Analysis of Priority Classifications

Analysis of the project priority classes yields data regarding the urgency of the project backlog. The following table identifies the priority classes in which the projects were placed. The priority classes are time based as indicated in the table on the following page. Priority Class 1 houses projects that are recommended to be completed on an immediate basis. Priority Class 2 contains projects that are recommended to be completed within Year 1. Since these projects typically represent a small part of the total project backlog, they have been combined into a Year 1 category.

	Priority 1 and 2 (Year 1)	Priority 3 (Years 2-5)	Priority 4 (Years 6-10)
	-----ALL NUMBERS IN PERCENTAGES-----		
Auburn Hills	3.6	51.0	45.4
District Office	5.4	67.7	27.0
Highland Lakes	10.1	69.6	20.3
Orchard Ridge	13.4	55.1	31.5
Royal Oak	4.9	55.5	39.7
Southfield	0.0	25.7	74.3
OCC Total	7.5	55.6	36.9
ISES Historical Average	12.4	62.4	24.7

The analyses of the priority classes and project classifications typically yield corresponding inferences. Priorities 1 and 2 contain a high proportion of Plant / Program Adaption projects and some Deferred Maintenance. Priority 3 contains a mix of all project classifications. Priority 4 contains mostly Capital Renewal projects since these are recommended on the basis of statistical projections. In some cases, Priority 4 can contain some Plant / Program Adaption projects as well. Deferred Maintenance projects are typically more urgent than Priority 4 allows.

The Priority 1 and Priority 2, or Year 1, proportion comprises 7.5 percent of the project backlog. This is lower and close to out of range of the 12.4 percent mean. The Orchard Ridge Campus has the highest proportion of Year 1 projects but is very close to the expected value. This is a favorable position for OCC. These projects should be considered for completion in the near term. Having such a small amount of them allows for manageable project completion.

Priority 3 and Priority 4 projects are typically inversely proportional, with Priority 3 making up the definitive majority. In this particular case, the Priority 3 proportion is lower and close to being out of range of the mean. The Priority 4 proportion is higher and out of range from the mean. This indicates a favorable position for OCC. Although there are many projects that need to be completed, OCC has time to properly plan them.

1.3 Conclusions and Recommendations for Facility Improvement

The preceding sections of this report, supported by the graphs and charts contained in Section 2, illustrate that the current overall condition is average. However, the facility condition is lower than expected given the average age of the portfolio. One could make the inference that the facilities are deteriorating more rapidly than they should.

From a group perspective, the Royal Oak Campus represents the most immediate need for reinvestment. Royal Oak may be followed by Auburn Hills in priority. Given the young age of these campuses, piecemeal updating may be a suitable strategy. Orchard Ridge and the District Office are of comparable condition to the aforementioned groups. However, given their older age, facility replacements or comprehensive renovations may be more suitable than piecemeal updates. Please note that these are not definitive conclusions.

The building level analysis confirms the group level analysis. However, it also indicates that the Highland Lakes has facilities in need of near-term reinvestment. These facilities include Highland Hall and the Physical Education building. The Orchard Ridge Campus Community Center is also in need of funding for facilities renewal projects.

The projects recommended during the Facility Condition Assessment effort are fortunately less severe than expected, and OCC has more time to plan and fund them than a typical ISES client. The project backlog is more severe and urgent at the Royal Oak Campus, Highland Lakes Campus, and the District Office site. Regardless of proportions, it is recommended that Accessibility, Fire / Life Safety, and Vertical Transportation projects be considered for funding. Such projects affect overall building safety and usability. Additionally, such projects typically comprise the bulk of the Year 1 and Plant Adaption-classified projects.

With regards to FCNI, the most effective method of keeping it down is to holistically reinvest in existing facilities. This means either razing and rebuilding or gut and renovating them. Such project work also has implications on making maintenance organizations more effective. Note that this new construction will

have a positive effect on the FCNI only if existing buildings are replaced with new. If new structures are built but the older facilities kept in service, any existing FCNI problems will be exacerbated. In addition, if the maintenance staff is not expanded in the event of adding incremental square footage to the portfolio, the FCNI issues will become more difficult to manage.

If it is impossible to fully gut and renovate or raze and replace a facility, consider bundling ISES projects intelligently. For example, if an expensive HVAC system renewal project is justified and funded, consider undertaking any exterior envelope projects in concert with it. Replacing roofs, windows, and exterior doors will produce maximum energy savings which will allow for as short a payback period as possible. For economies of scale, electrical and plumbing projects could also be combined.

1.4 Financial Modeling

The ISES Asset Management System (AMS) software and database application features a funding modeling tool which can estimate the effects of funding levels on the FCNI. Utilizing this tool, it was calculated that, in order for OCC to maintain the current FCNI of 0.24, \$10.1 million would have to be reinvested annually. This equates to 1.57 percent of plant value on an annual basis. Note that this figure is an annuity and does account for 3 percent inflation. The model also incorporates a 1 percent portfolio growth rate (rate at which square footage is added), and a 1.5 percent plant deterioration rate (the rate at which new capital project needs arise). If the reinvestment rate is lower than 1.57 percent of plant value, then the FCNI at the end of the tenth year will be higher than it was in the first. For instance, if 1 percent of plant value, or \$6.4 million, is reinvested annually, then the resultant FCNI is estimated to be 0.28. Conversely, if 2.5 percent of plant value, or \$16 million, is reinvested annually, then the resultant FCNI is estimated to be 0.16.

The table on the following page breaks down three sample funding scenarios geared at homogenizing the FCNI over the different campuses. If the OCC strategy is to maintain the current FCNI of 0.24, then Auburn Hills should be the primary recipient of funding at a rate of 30 percent of the funding. Although this may not be a realistic approach, it does demonstrate the power of the funding modeling tool in exhibiting a theoretical approach.

GROUP	1.0% REINVESTMENT (ENDING FCNI = 0.28)	MAINTAIN FCNI 1.57% REINVESTMENT (ENDING FCNI = 0.24)	2.5% REINVESTMENT (ENDING FCNI = 0.16)
Auburn Hills	2.0	3.2	5.0
District Office	0.1	0.2	0.2
Highland Lakes	1.3	2.0	3.1
Orchard Ridge	1.6	2.5	4.0
Royal Oak	0.8	1.3	2.0
Southfield	0.6	1.0	1.6
OCC Total	6.4	10.1	16.0

Figures expressed in \$Million / year

The listed ending FCNIs are after a period of ten years. Keep in mind that this model is theoretical. Also, note that this model takes into account all money that goes towards renewing the facilities and their components. This money includes funding from all sources, such as annual Deferred Maintenance and Capital Renewal funding, major renovation funding, donor funding, program-related grant funding, etc.

FCA DATA AND COMPARISONS

2.1 Detailed Facility Inventory

ASSET CODE	ASSET NAME	ASSET USE	YEAR BUILT	GSF	CRV (\$)	TOTAL PROJECT COSTS	FCNI
AHA	Earl M Anderson	CL	1970	104,725	29,198,590	12,611,175	0.43
AHB	Administration	OF	1975	34,511	11,063,880	3,280,408	0.30
AHC	Joseph E Hill	CL	1970	56,169	17,439,910	9,179,801	0.53
AHD	George R Mosher	CL	1975	52,197	16,370,600	5,712,591	0.35
AHE	Business, Science And Art	CL	1980	28,819	9,591,830	3,931,413	0.41
AHF1	General Assembly - Main and Addition	CL	1970	25,550	8,503,810	4,644,569	0.55
AHF2	General Assembly - Addition	CL	1998	49,907	15,744,160	2,034,874	0.13
AHG1	Bookstore/IT/Public Safety	RT	2008	29,909	10,580,310	828,223	0.08
AHG2	Student Union Addition	SU	2008	36,792	12,608,990	222,431	0.02
AHGCS	Grounds Covered Storage	WH	2008	4,036	1,232,230	0	0.00
AHGM	Grounds Maintenance	WH	2008	3,494	1,066,750	10,484	0.01
AHH	Health Education	GM	1977	35,138	9,669,270	287,778	0.03
AHH1	Weightlifting and Classroom Addition	GM	2010	12,195	3,819,840	16,458	0.00
AHJ	Criminal Justice	CL	1981	21,378	7,503,460	801,837	0.11
AHK	Child Care Center	OF	1991	3,491	1,041,890	162,424	0.16
AHL	Landscape Greenhouse	GR	1993	1,991	327,940	14,638	0.04
AHMT1	Michigan Technical Education Ctr - Main	CL	2000	27,561	9,173,130	2,404,448	0.26
AHMT2	Michigan Technical Education Ctr - Annex	WH	2000	10,859	2,179,160	847,169	0.39
AHP	Power House	PP	1970	13,298	4,060,010	264,149	0.07
AHS1	CREST - Training Center	CL	2002	10,655	3,910,810	576,072	0.15
AHS10	CREST - Ranch	RS	2001	1,890	559,650	95,540	0.17
AHS2	CREST - Control Tower	CL	2003	1,352	841,460	42,465	0.05
AHS3	CREST - Pole Barn Metal Bldg (CREST Stg)	WH	2008	1,739	530,930	8,045	0.02
AHS4	CREST - Burn Building	CL	2003	13,350	8,308,770	121,957	0.01
AHS5	CREST - Motel	DM	2002	3,415	1,413,910	106,702	0.08
AHS6	CREST - Two-Story	RS	2001	2,700	799,500	100,778	0.13
AHS7	CREST - Bank	OF	2002	1,800	620,190	84,723	0.14
AHS8	CREST - Convenience Store/Gas Station	RT	2002	3,000	613,020	134,443	0.22
AHS9	CREST - Cape Cod	RS	2001	1,983	587,190	89,462	0.15
AHSD	Salt Dome	WH	2008	987	162,570	0	0.00
AHSI	Auburn Hills Campus Site	SI	1970	NA	NA	1,992,099	NA
AHT	Advanced Technology Center	CL	1983	38,060	12,272,450	3,722,664	0.30
AUBURN HILLS				632,952	\$201,796,211	\$54,329,820	0.27

OAKLAND COMMUNITY COLLEGE
Facility Condition Assessment
Executive Summary



ASSET CODE	ASSET NAME	ASSET USE	YEAR BUILT	GSF	CRV (\$)	TOTAL PROJECT COSTS (\$)	FCNI
DOGB	George A Bee Administration Center	OF	1965	26,230	8,195,040	2,124,350	0.26
DOMH	Doris Mosher Foundation House	OF	1925	4,889	1,684,500	556,854	0.33
DISTRICT OFFICE				31,119	\$9,879,540	\$2,681,204	0.27
HLCP	Central Plant	ST	1999	8,135	2,483,700	219,375	0.09
HLGB1	Grounds Building	ST	1998	3,175	969,360	104,099	0.11
HLGB2	Grounds Covered Storage	WH	1998	3,997	658,350	25,697	0.04
HLGB3	Salt Dome	WH	2005	900	148,240	0	0.00
HLHH	Highland Hall	CL	1928	68,741	21,077,370	11,518,112	0.55
HLHOH	High Oaks Hall	CL	1929	46,822	14,770,940	1,774,654	0.12
HLLH	Levinson Hall (Science)	LB	1977	42,327	18,699,960	1,683,874	0.09
HLLHA	Levinson Hall Addition (Health)	LB	2006	38,130	13,623,560	382,017	0.03
HLMB	Metal Building (Old Salt Storage)	WH	1998	1,200	197,650	52,003	0.26
HLPAV	Pavilion	WH	1994	2,025	333,540	48,283	0.14
HLPE	Physical Education	GM	1977	35,098	9,658,270	4,422,748	0.46
HLPH	Pump House	PP	1965	1,500	247,070	8,909	0.04
HLRC	Redwood Center	ST	1927	4,098	1,251,160	92,015	0.07
HLSC	Student Center	SU	1972	31,120	11,008,700	2,023,091	0.18
HLSI	Highland Lakes Campus Site	SI	1977	NA	NA	1,638,015	NA
HLWH	Woodland Hall (North)	CL	1980	42,505	13,705,740	1,149,270	0.08
HLWHA	Woodland Hall Addition (South)	OF	2008	54,470	16,657,200	547,915	0.03
HIGHLAND LAKES				384,244	\$125,490,811	\$25,690,077	0.20
ORA	Classroom Building A and Addition	LB	1967	36,363	11,725,250	2,672,060	0.23
ORB	Classroom Building B	LB	1967	26,555	9,928,780	2,203,979	0.22
ORC	Classroom Building C	LB	1967	26,627	11,049,140	1,574,580	0.14
ORD	Classroom Building D	LB	1967	28,561	10,678,820	2,666,689	0.25
ORE	Power House	PP	1967	17,581	5,132,950	920,884	0.18
ORF	Classroom Building F	CL	1967	28,280	9,412,430	2,903,747	0.31
ORG	Classroom Building G	CL	1967	26,781	8,913,520	1,627,139	0.18
ORH	Community Activity	GM	1977	70,357	18,410,320	6,929,531	0.38
ORJ	Tirrell Hall	SU	1967	118,364	37,184,050	7,740,780	0.21
ORK	Martin L. King Jr. Library	LY	1967	40,181	12,704,430	3,809,369	0.30
ORL	Arts Building	CL	1967	28,967	9,345,620	2,510,465	0.27
ORM	Administration	OF	1967	27,383	8,555,270	2,341,508	0.27
ORN	Grounds Garage	ST	1972	4,008	1,223,680	298,945	0.24
ORP	Pump House	WH	1967	1,060	323,630	0	0.00
ORSI	Orchard Ridge Campus Site	SI	1967	NA	NA	2,271,493	NA
ORT	Smith Theatre	TH	1982	12,633	4,777,040	699,440	0.15
ORCHARD RIDGE				493,702	\$159,364,931	\$41,170,609	0.26

OAKLAND COMMUNITY COLLEGE
Facility Condition Assessment
Executive Summary



ASSET CODE	ASSET NAME	ASSET USE	YEAR BUILT	GSF	CRV (\$)	TOTAL PROJECT COSTS	FCNI
ROA1	Classroom	CL	1980	28,443	9,466,680	4,430,008	0.47
ROA2	Classroom Addition	CL	1999	21,080	7,398,870	793,735	0.11
ROB	Administration	CL	1980	38,036	12,264,710	3,086,323	0.25
ROC	Learning Resources Center	LY	1980	20,188	6,947,900	902,419	0.13
ROD	Fine Arts	CL	1980	30,160	9,148,250	5,411,891	0.59
ROE	Lila R Jones-Johnson Theater	TH	1980	30,750	10,451,280	5,242,491	0.50
ROG	Grounds Building	WH	1935	2,752	840,210	240,911	0.29
ROM	Mall	OF	1980	29,562	9,236,060	1,475,846	0.16
ROP	Power House	PP	1982	3,926	2,698,650	288,871	0.11
ROPS1	Parking Structure - North	PK	1983	155,975	6,337,260	689,465	0.11
ROPS2	Parking Structure - South	PK	1999	175,000	7,087,500	671,437	0.09
ROSI	Royal Oak Campus Site	SI	1980	NA	NA	247,352	NA
ROYAL OAK				535,873	\$81,877,371	23,480,749	0.29
SFSF1	Southfield - Building A	CL	1979	81,322	24,704,000	2,642,825	0.11
SFSF2	Southfield - Building A Addition	LY	1999	10,882	4,516,430	749,856	0.17
SFSF3	Southfield - Building B	LB	2010	71,800	32,880,090	370,145	0.01
SFSI	Southfield Campus Site	SI	1979	NA	NA	144,558	NA
SOUTHFIELD				164,005	\$62,100,521	3,907,383	0.06
GRAND TOTALS				2,241,890	\$640,509,380	\$151,259,842	0.24

2.2 Detailed Project Total Matrices

Figure 1 – Oakland Community College

SYSTEM DESCRIPTION	PRIORITIES				TOTALS (\$)
	1	2	3	4	
ACCESSIBILITY	0	582,281	2,398,759	366,375	3,347,416
ELECTRICAL	0	1,474,561	13,648,766	11,884,289	27,007,616
EXTERIOR	0	72,414	9,525,704	10,066,038	19,664,156
FIRE/LIFE SAFETY	0	9,044,812	430,597	2,638,736	12,114,144
HEALTH	0	0	144,693	0	144,693
HVAC	0	28,916	20,001,392	10,949,647	30,979,955
INTERIOR FINISHES/SYS	0	0	23,748,784	6,286,059	30,034,843
PLUMBING	0	72,378	6,689,320	9,680,535	16,442,233
SITE	0	60,659	3,184,448	3,045,950	6,291,057
VERT. TRANSPORTATION	0	0	4,349,989	883,742	5,233,731
TOTALS	\$0	\$11,336,021	\$84,122,452	\$55,801,370	\$151,259,842

CAPITAL RENEWAL	\$88,302,601
DEFERRED MAINTENANCE	\$48,931,720
PLANT/PROGRAM ADAPTION	\$14,025,521
CURRENT REPLACEMENT VALUE	\$640,509,385
FACILITY CONDITION NEEDS INDEX (FCNI)	0.24

GROSS SQUARE FEET 2,241,890

**TOTAL PROJECT COST PER
SQUARE FOOT** \$67.47

Figure 2 – Auburn Hills

SYSTEM DESCRIPTION	PRIORITIES				TOTALS (\$)
	1	2	3	4	
ACCESSIBILITY	0	408,722	164,739	74,679	648,141
ELECTRICAL	0	747,496	2,569,175	5,805,199	9,121,870
EXTERIOR	0	7,729	5,222,668	2,969,829	8,200,225
FIRE/LIFE SAFETY	0	795,605	214,007	1,464,438	2,474,050
HVAC	0	0	8,130,695	5,887,492	14,018,187
INTERIOR FINISHES/SYS	0	0	8,683,145	1,990,270	10,673,415
PLUMBING	0	0	740,090	5,238,743	5,978,833
SITE	0	0	856,848	1,219,366	2,076,215
VERT. TRANSPORTATION	0	0	1,138,885	0	1,138,885
TOTALS	\$0	\$1,959,552	\$27,720,253	\$24,650,016	\$54,329,820

CAPITAL RENEWAL	\$32,922,439
DEFERRED MAINTENANCE	\$18,798,478
PLANT/PROGRAM ADAPTION	\$2,608,903
CURRENT REPLACEMENT VALUE	\$201,796,211
FACILITY CONDITION NEEDS INDEX (FCNI)	0.27

GROSS SQUARE FEET **632,952**

**TOTAL PROJECT COST PER
SQUARE FOOT** **\$85.84**

Figure 3 – District Office

SYSTEM DESCRIPTION	PRIORITIES				TOTALS (\$)
	1	2	3	4	
ACCESSIBILITY	0	11,086	145,587	0	156,673
ELECTRICAL	0	0	234,378	21,415	255,793
EXTERIOR	0	55,677	452,355	112,994	621,027
FIRE/LIFE SAFETY	0	77,271	18,533	91,835	187,639
HVAC	0	0	0	496,458	496,458
INTERIOR FINISHES/SYS	0	0	580,431	0	580,431
PLUMBING	0	0	304,167	0	304,167
SITE	0	0	79,017	0	79,017
TOTALS	\$0	\$144,034	\$1,814,467	\$722,703	\$2,681,204

CAPITAL RENEWAL	\$1,463,054
DEFERRED MAINTENANCE	\$984,206
PLANT/PROGRAM ADAPTION	\$233,944
CURRENT REPLACEMENT VALUE	\$9,879,540
FACILITY CONDITION NEEDS INDEX (FCNI)	0.27

GROSS SQUARE FEET	31,119
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TOTAL PROJECT COST PER SQUARE FOOT	\$86.16
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Figure 4 – Highland Lakes

SYSTEM DESCRIPTION	PRIORITIES				TOTALS (\$)
	1	2	3	4	
ACCESSIBILITY	0	147,040	922,896	24,880	1,094,816
ELECTRICAL	0	607,146	2,972,857	835,764	4,415,767
EXTERIOR	0	0	549,344	1,597,580	2,146,924
FIRE/LIFE SAFETY	0	1,818,402	76,027	29,317	1,923,746
HVAC	0	0	4,989,586	106,270	5,095,856
INTERIOR FINISHES/SYS	0	0	3,884,646	990,455	4,875,101
PLUMBING	0	0	1,949,753	1,272,274	3,222,027
SITE	0	14,106	1,268,611	113,302	1,396,019
VERT. TRANSPORTATION	0	0	1,264,680	255,142	1,519,822
TOTALS	\$0	\$2,586,693	\$17,878,400	\$5,224,985	\$25,690,077

CAPITAL RENEWAL \$11,722,738

DEFERRED MAINTENANCE \$10,606,198

PLANT/PROGRAM ADAPTION \$3,361,141

CURRENT REPLACEMENT VALUE \$125,490,811

FACILITY CONDITION NEEDS INDEX (FCNI) 0.20

GROSS SQUARE FEET 384,244

**TOTAL PROJECT COST PER
SQUARE FOOT \$66.86**

Figure 5 – Orchard Ridge

SYSTEM DESCRIPTION	PRIORITIES				TOTALS (\$)
	1	2	3	4	
ACCESSIBILITY	0	0	1,158,505	266,815	1,425,320
ELECTRICAL	0	119,919	7,422,554	133,898	7,676,371
EXTERIOR	0	9,009	1,108,717	1,695,938	2,813,664
FIRE/LIFE SAFETY	0	5,225,875	43,843	0	5,269,719
HEALTH	0	0	144,693	0	144,693
HVAC	0	28,916	1,968,374	3,823,633	5,820,924
INTERIOR FINISHES/SYS	0	0	4,567,174	2,505,245	7,072,418
PLUMBING	0	72,378	3,661,637	2,622,111	6,356,126
SITE	0	46,553	913,785	1,311,155	2,271,493
VERT. TRANSPORTATION	0	0	1,691,282	628,600	2,319,882
TOTALS	\$0	\$5,502,650	\$22,680,564	\$12,987,395	\$41,170,609

CAPITAL RENEWAL \$26,520,403

DEFERRED MAINTENANCE \$7,978,798

PLANT/PROGRAM ADAPTION \$6,671,408

CURRENT REPLACEMENT VALUE \$159,364,931

FACILITY CONDITION NEEDS INDEX (FCNI) 0.26

GROSS SQUARE FEET 493,702

TOTAL PROJECT COST PER
SQUARE FOOT \$83.39

Figure 6 – Royal Oak

SYSTEM DESCRIPTION	PRIORITIES				TOTALS (\$)
	1	2	3	4	
ACCESSIBILITY	0	15,434	7,032	0	22,466
ELECTRICAL	0	0	439,226	4,244,145	4,683,371
EXTERIOR	0	0	2,190,032	2,864,503	5,054,535
FIRE/LIFE SAFETY	0	1,127,659	78,187	722,636	1,928,481
HVAC	0	0	4,824,044	198,856	5,022,901
INTERIOR FINISHES/SYS	0	0	5,132,391	479,070	5,611,461
PLUMBING	0	0	33,673	547,407	581,080
SITE	0	0	63,742	257,569	321,311
VERT. TRANSPORTATION	0	0	255,142	0	255,142
TOTALS	\$0	\$1,143,092	\$13,023,470	\$9,314,187	\$23,480,749

CAPITAL RENEWAL	\$11,795,803
DEFERRED MAINTENANCE	\$10,534,822
PLANT/PROGRAM ADAPTION	\$1,150,124
CURRENT REPLACEMENT VALUE	\$81,877,371
FACILITY CONDITION NEEDS INDEX (FCNI)	0.29

GROSS SQUARE FEET 535,873

**TOTAL PROJECT COST PER
SQUARE FOOT \$43.82**

Figure 7 – Southfield

SYSTEM DESCRIPTION	PRIORITIES				TOTALS (\$)
	1	2	3	4	
ELECTRICAL	0	0	10,576	843,868	854,444
EXTERIOR	0	0	2,587	825,193	827,780
FIRE/LIFE SAFETY	0	0	0	330,509	330,509
HVAC	0	0	88,693	436,938	525,631
INTERIOR FINISHES/SYS	0	0	900,997	321,019	1,222,016
SITE	0	0	2,444	144,558	147,002
TOTALS	\$0	\$0	\$1,005,298	\$2,902,085	\$3,907,383

CAPITAL RENEWAL	\$3,878,164
DEFERRED MAINTENANCE	\$29,219
PLANT/PROGRAM ADAPTION	\$0
CURRENT REPLACEMENT VALUE	\$62,100,521
FACILITY CONDITION NEEDS INDEX (FCNI)	0.06

GROSS SQUARE FEET	164,005
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TOTAL PROJECT COST PER SQUARE FOOT	\$23.82
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2.3 ISES Client History and FCNI Comparison Table and Graphs

Figure 8 – Oakland Community College

Sampling of ISES Client History List								
Client Name	Year of Inspection	Facility Condition Needs Index	Gross Square Feet	Asset Count	Average Year Built	Avg. Age at Insp.	Project Backlog per Square Foot	Total
California State University Channel Islands	2010	0.13	919,735	32	1975	35	\$49.48	\$
University of Central Florida	2012	0.13	3,995,608	73	1991	21	\$50.90	\$2
University of North Florida	2008	0.14	1,720,437	28	1990	18	\$40.40	\$
Chapman University	2011	0.16	2,269,636	39	1986	24	\$55.81	\$1
University of Puget Sound	2012	0.17	1,213,642	41	1965	47	\$66.08	\$
Pepperdine University	2008	0.17	1,483,295	54	1986	22	\$61.59	\$
Florida State University	2011	0.18	6,899,036	114	1974	37	\$58.31	\$4
Tulane University Uptown Campus	2011	0.20	4,018,500	73	1966	45	\$71.26	\$2
Stanford University II	2007	0.22	2,512,843	47	1947	60	\$80.58	\$2
Florida A&M University	2012	0.23	1,430,308	40	1974	38	\$78.20	\$1
New College of Florida	2011	0.23	626,400	55	1978	33	\$81.84	\$
Oakland Community College	2012	0.24	2,241,895	78	1980	32	\$67.47	\$1
University of California San Diego	2012	0.24	3,908,630	81	1984	28	\$127.24	\$4
Johns Hopkins University	2012	0.25	4,239,199	54	1968	44	\$100.91	\$42
San Diego State University	2012	0.25	3,200,642	41	1975	37	\$102.21	\$3
San Francisco State University	2003	0.26	1,908,545	21	1962	41	\$70.16	\$1
University of Missouri Kansas City	2008	0.27	2,419,857	38	1966	42	\$79.96	\$1
University of West Georgia	2004	0.27	1,334,306	36	1963	41	\$45.01	\$
Portland Community College	2010	0.27	2,055,698	39	1983	27	\$93.49	\$1
East Carolina University	2009	0.28	4,003,456	67	1964	45	\$92.83	\$3
University of Rochester	2007	0.28	5,387,635	23	1965	42	\$91.78	\$4
Northern Michigan University	2000	0.28	3,298,899	48	1972	28	\$50.77	\$1
Portland State University	2008	0.29	4,062,486	37	1968	40	\$70.03	\$2
Valdosta State University	2004	0.29	985,822	19	1966	38	\$46.06	\$
University of Hawai'i at Mānoa	2010	0.29	3,998,778	60	1974	36	\$134.73	\$5
Black Hawk College	2011	0.30	562,976	19	1974	37	\$114.82	\$
Morehouse College	2007	0.31	844,948	24	1971	36	\$66.97	\$
Rowan University	2005	0.31	1,940,879	44	1962	32	\$74.51	\$1
Kenyon College	2007	0.32	825,023	52	1949	58	\$84.38	\$
Oklahoma State University	2009	0.32	3,086,167	40	1962	47	\$111.29	\$3
Missouri University of Science and Technology	2010	0.33	1,549,304	43	1957	53	\$135.40	\$2
California State University Los Angeles	2005	0.33	1,908,641	20	1966	39	\$99.30	\$1
Princeton University	2010	0.34	2,188,267	141	1948	62	\$55.13	\$1
University of Massachusetts Lowell	2011	0.36	3,066,964	43	1965	46	\$147.56	\$4
California Polytechnic State University San Luis Obispo	2006	0.36	859,028	36	1968	38	\$77.06	\$
University of California Irvine	2007	0.38	336,208	26	1970	37	\$89.47	\$
University of Missouri-St. Louis	2010	0.39	1,750,014	39	1967	43	\$154.57	\$2
University of Alabama	2005	0.45	5,509,132	134	1950	55	\$51.75	\$2
Miami University, Ohio	2007	0.48	1,527,840	30	1954	53	\$94.23	\$1
Averages	2009	0.00	2,463,864	49	1969	40	\$83.19	\$20

Figure 9 - FCNI Comparison showing Average Quadrants – Oakland Community College

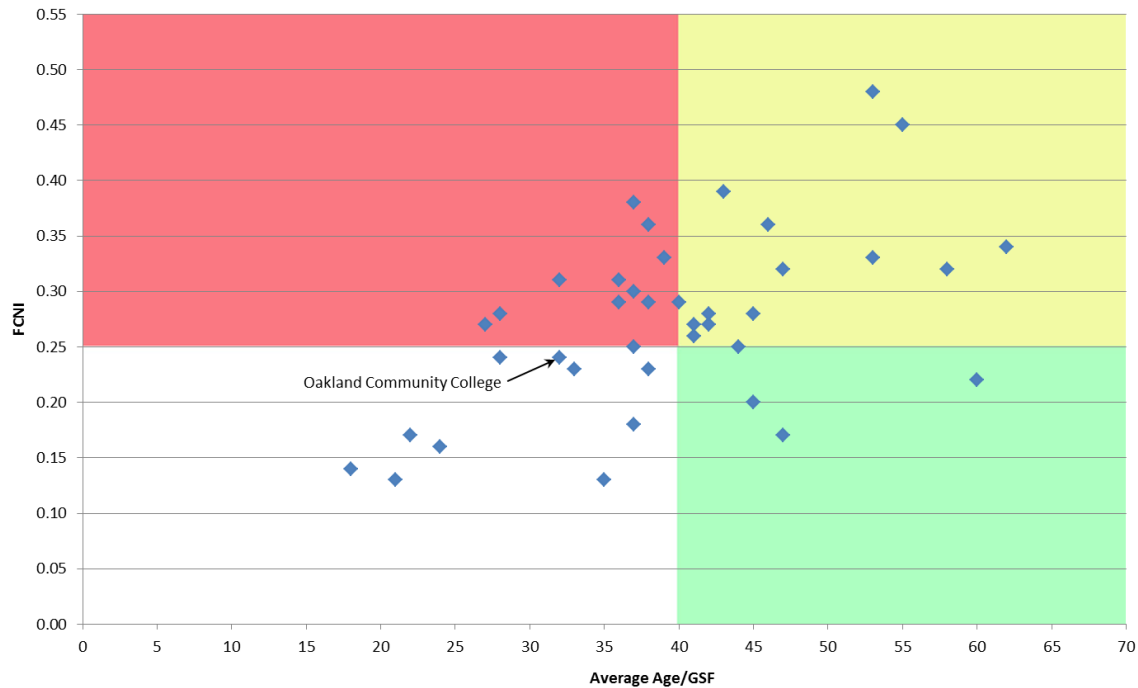
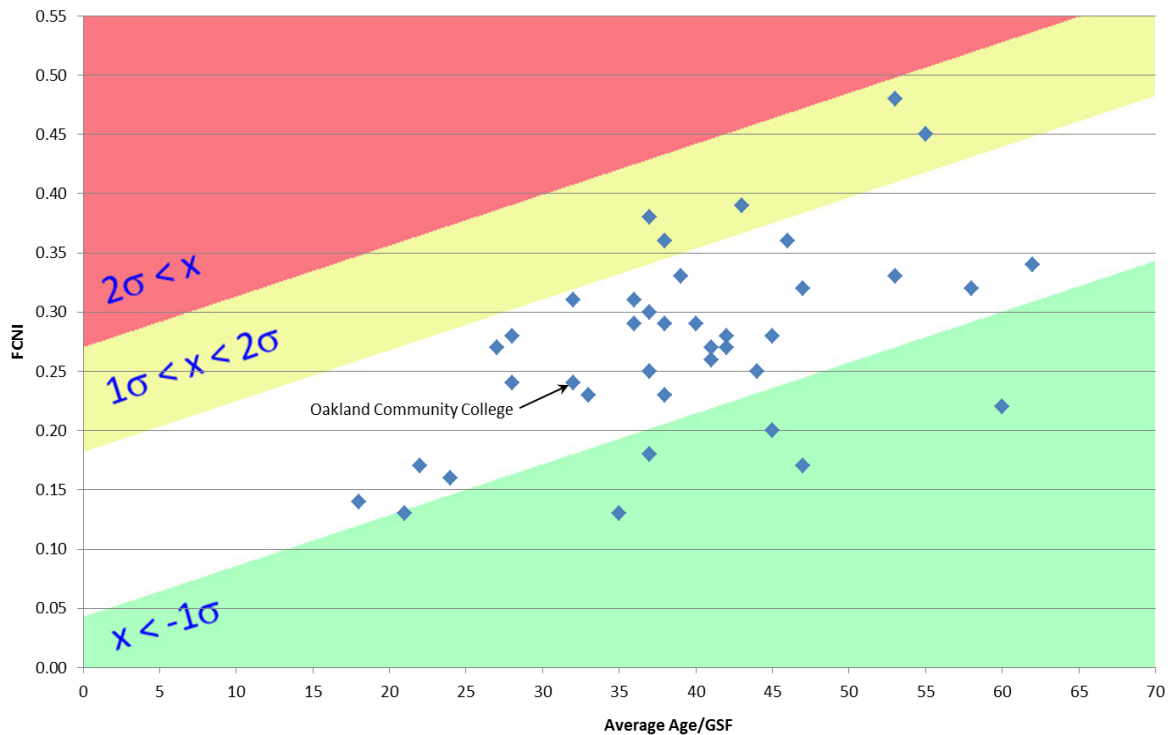


Figure 10 - FCNI Comparison showing Trend Bands - Oakland Community College



OAKLAND COMMUNITY COLLEGE
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Figure 11 – Campus breakout

Sampling of ISES Client History List										
Client Name	Year of Inspection	Facility Condition Needs Index	Gross Square Feet	Asset Count	Average Year Built	Avg. Age at Insp.	Project Backlog per Square Foot	Total Backlog	FCNI Percent Rank	Avg Age Percent Rank
Oakland Community College - Southfield	2012	0.06	164,005	3	1994	18	\$23.82	\$3,907,383	100%	100%
California State University Channel Islands	2010	0.13	919,735	32	1975	35	\$49.48	\$45,505,298	98%	73%
University of Central Florida	2012	0.13	3,995,608	73	1991	21	\$50.90	\$203,387,274	98%	96%
University of North Florida	2008	0.14	1,720,437	28	1990	18	\$40.40	\$69,498,230	94%	100%
Chapman University	2011	0.16	2,269,636	39	1986	24	\$55.81	\$117,240,683	89%	91%
University of Puget Sound	2012	0.17	1,213,642	41	1965	47	\$66.08	\$80,194,365	89%	19%
Pepperdine University	2008	0.17	1,483,295	54	1986	22	\$61.59	\$91,362,453	89%	94%
Florida State University	2011	0.18	6,899,036	114	1974	37	\$58.31	\$402,295,512	84%	66%
Tulane University Uptown Campus	2011	0.20	4,018,500	73	1966	45	\$71.26	\$286,356,411	82%	26%
Oakland Community College - Highland Lakes	2012	0.20	384,244	16	1970	42	\$66.86	\$25,690,077	82%	40%
Stanford University II	2007	0.22	2,512,843	47	1947	60	\$80.58	\$202,481,536	77%	3%
Florida A&M University	2012	0.23	1,430,308	40	1974	38	\$78.20	\$111,855,752	75%	56%
New College of Florida	2011	0.23	626,400	55	1978	33	\$81.84	\$51,264,744	75%	75%
University of California San Diego	2012	0.24	3,908,630	81	1984	28	\$127.24	\$497,342,367	70%	84%
Johns Hopkins University	2012	0.25	4,239,199	54	1968	44	\$100.91	\$427,776,950	68%	28%
San Diego State University	2012	0.25	3,200,642	41	1975	37	\$102.21	\$327,138,710	68%	66%
Oakland Community College - Orchard Ridge	2012	0.26	493,702	15	1969	43	\$83.39	\$41,170,609	63%	33%
San Francisco State University	2003	0.26	1,908,545	21	1962	41	\$70.16	\$133,898,966	63%	45%
Oakland Community College - District Office	2012	0.27	31,119	2	1959	53	\$86.16	\$2,681,204	59%	14%
University of Missouri Kansas City	2008	0.27	2,419,857	38	1966	42	\$79.96	\$193,486,256	59%	40%
University of West Georgia	2004	0.27	1,334,306	36	1963	41	\$45.01	\$60,061,598	59%	45%
Oakland Community College - Auburn Hills	2012	0.27	632,952	31	1984	28	\$85.84	\$54,329,820	59%	84%
Portland Community College	2010	0.27	2,055,698	39	1983	27	\$93.49	\$192,190,548	59%	87%
East Carolina University	2009	0.28	4,003,456	67	1964	45	\$92.83	\$371,660,376	47%	26%
University of Rochester	2007	0.28	5,387,635	23	1965	42	\$91.78	\$494,470,898	47%	40%
Northern Michigan University	2000	0.28	3,298,899	48	1972	28	\$50.77	\$167,481,965	47%	84%
Portland State University	2008	0.29	4,062,486	37	1968	40	\$70.03	\$284,495,209	40%	47%
Valdosta State University	2004	0.29	985,822	19	1966	38	\$46.06	\$45,409,388	40%	56%
University of Hawai'i at Mānoa	2010	0.29	3,998,778	60	1974	36	\$134.73	\$538,771,415	40%	70%
Oakland Community College - Royal Oak	2012	0.29	535,873	11	1988	24	\$43.82	\$23,480,749	40%	91%
Black Hawk College	2011	0.30	562,976	19	1974	37	\$114.82	\$64,639,609	31%	66%
Morehouse College	2007	0.31	844,948	24	1971	36	\$66.97	\$56,583,054	28%	70%
Rowan University	2005	0.31	1,940,879	44	1962	32	\$74.51	\$144,619,873	28%	77%
Kenyon College	2007	0.32	825,023	52	1949	58	\$84.38	\$69,612,041	24%	5%
Oklahoma State University	2009	0.32	3,086,167	40	1962	47	\$111.29	\$343,450,807	24%	19%
Missouri University of Science and Technology	2010	0.33	1,549,304	43	1957	53	\$135.40	\$209,770,169	19%	14%
California State University Los Angeles	2005	0.33	1,908,641	20	1966	39	\$99.30	\$189,533,235	19%	49%
Princeton University	2010	0.34	2,188,267	141	1948	62	\$55.13	\$120,630,439	14%	0%
University of Massachusetts Lowell	2011	0.36	3,066,964	43	1965	46	\$147.56	\$452,572,591	12%	21%
California Polytechnic State University San Luis Obispo	2006	0.36	859,028	36	1968	38	\$77.06	\$66,198,105	12%	56%
University of California Irvine	2007	0.38	336,208	26	1970	37	\$89.47	\$30,082,075	7%	66%
University of Missouri-St. Louis	2010	0.39	1,750,014	39	1967	43	\$154.57	\$270,494,377	5%	33%
University of Alabama	2005	0.45	5,509,132	134	1950	55	\$51.75	\$285,113,705	3%	7%
Miami University, Ohio	2007	0.48	1,527,840	30	1954	53	\$94.23	\$143,963,945	0%	14%
Averages	2009	0.00	2,183,879	44	1970	39	\$83.19	\$181,685,245		

Figure 12 - FCNI Comparison showing Average Quadrants - Campus breakout

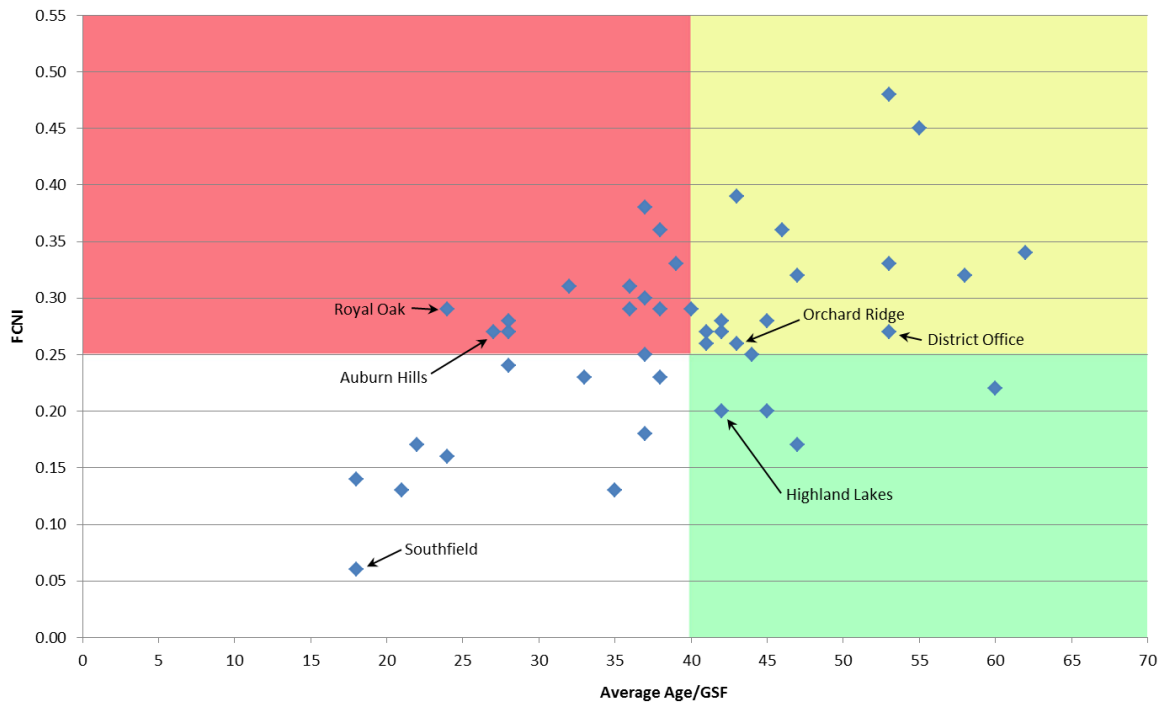
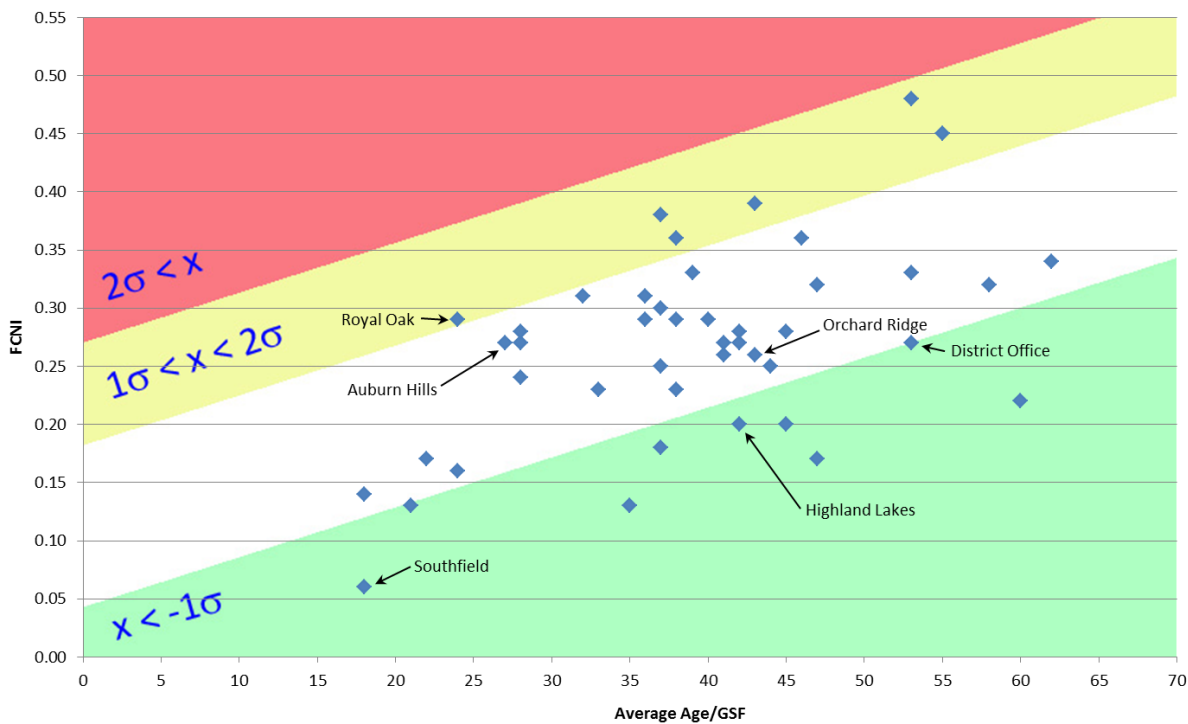


Figure 13 - FCNI Comparison showing Trend Bands - Campus breakout



2.4 Project Cost Distribution Charts

Figure 14 - Oakland Community College

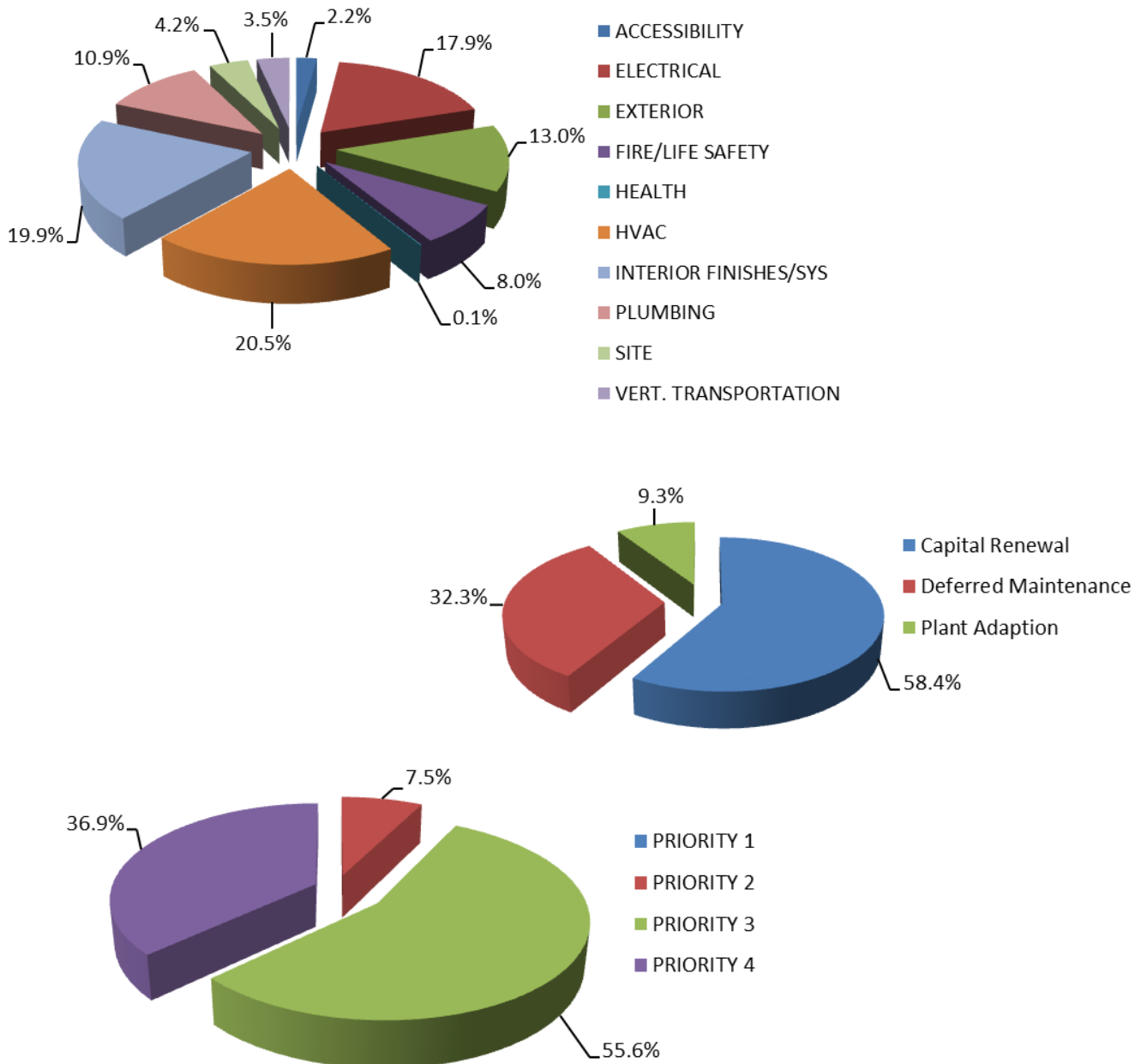


Figure 15 – Auburn Hills

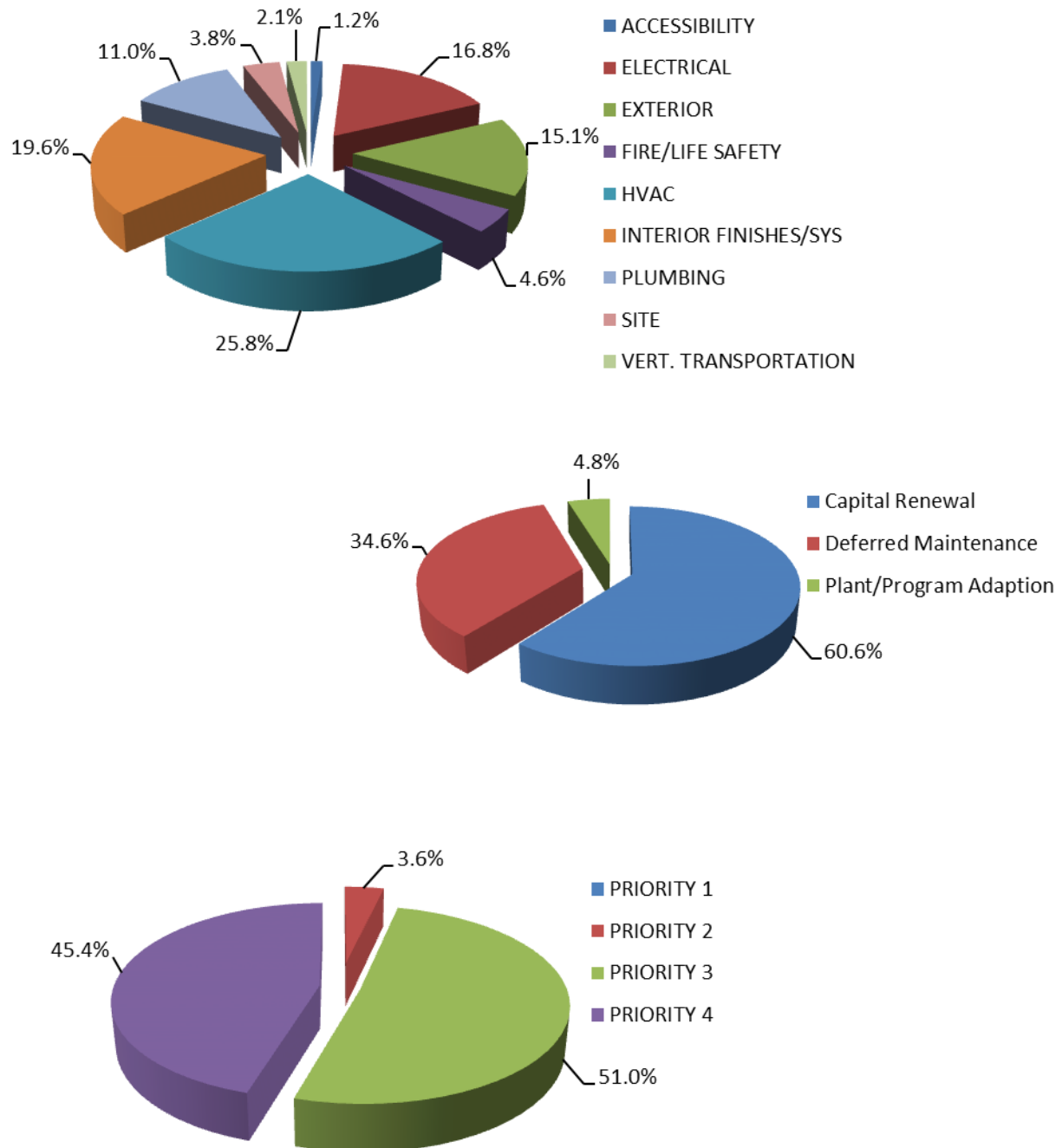


Figure 16 – District Office

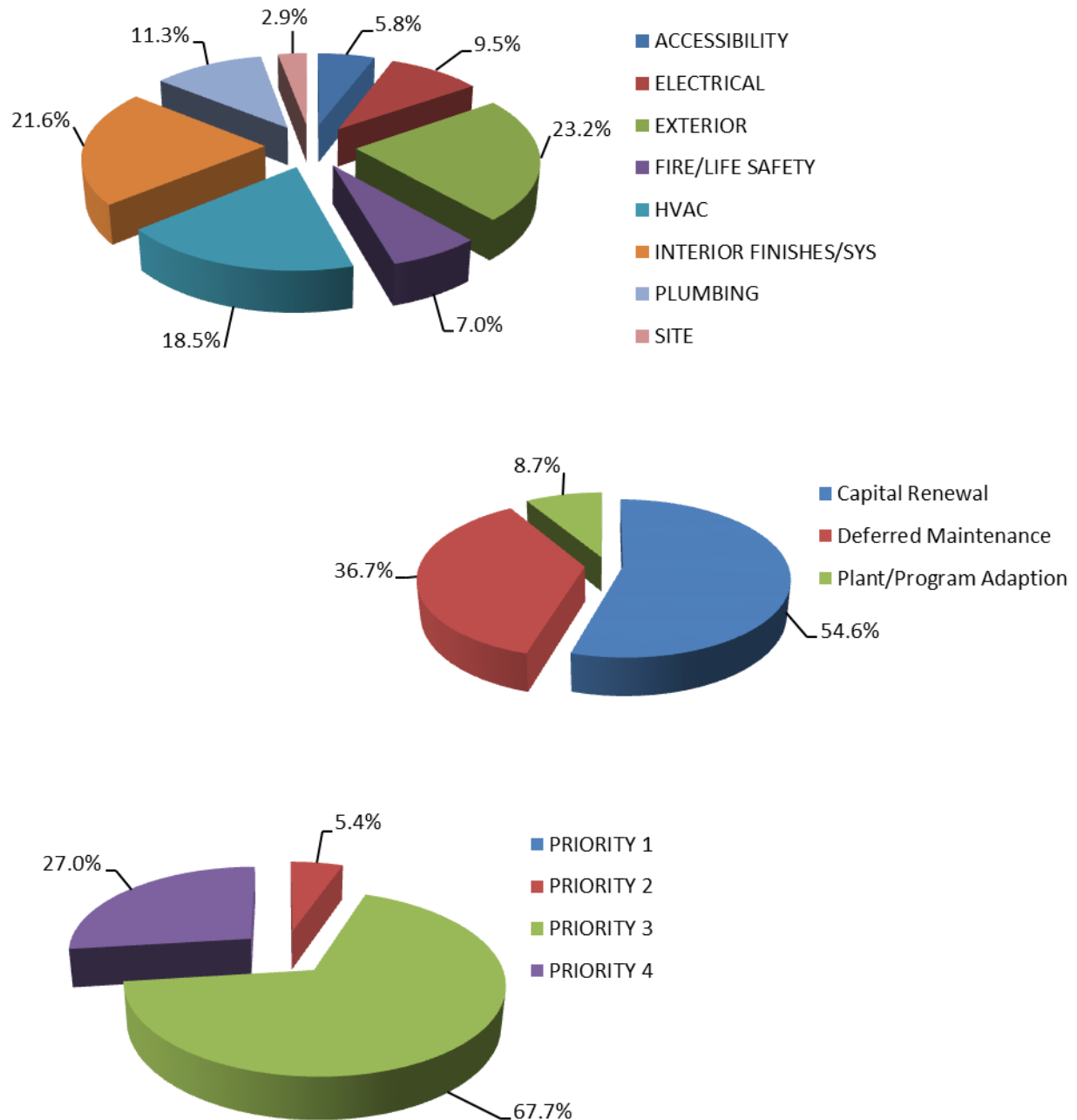


Figure 17 – Highland Lakes

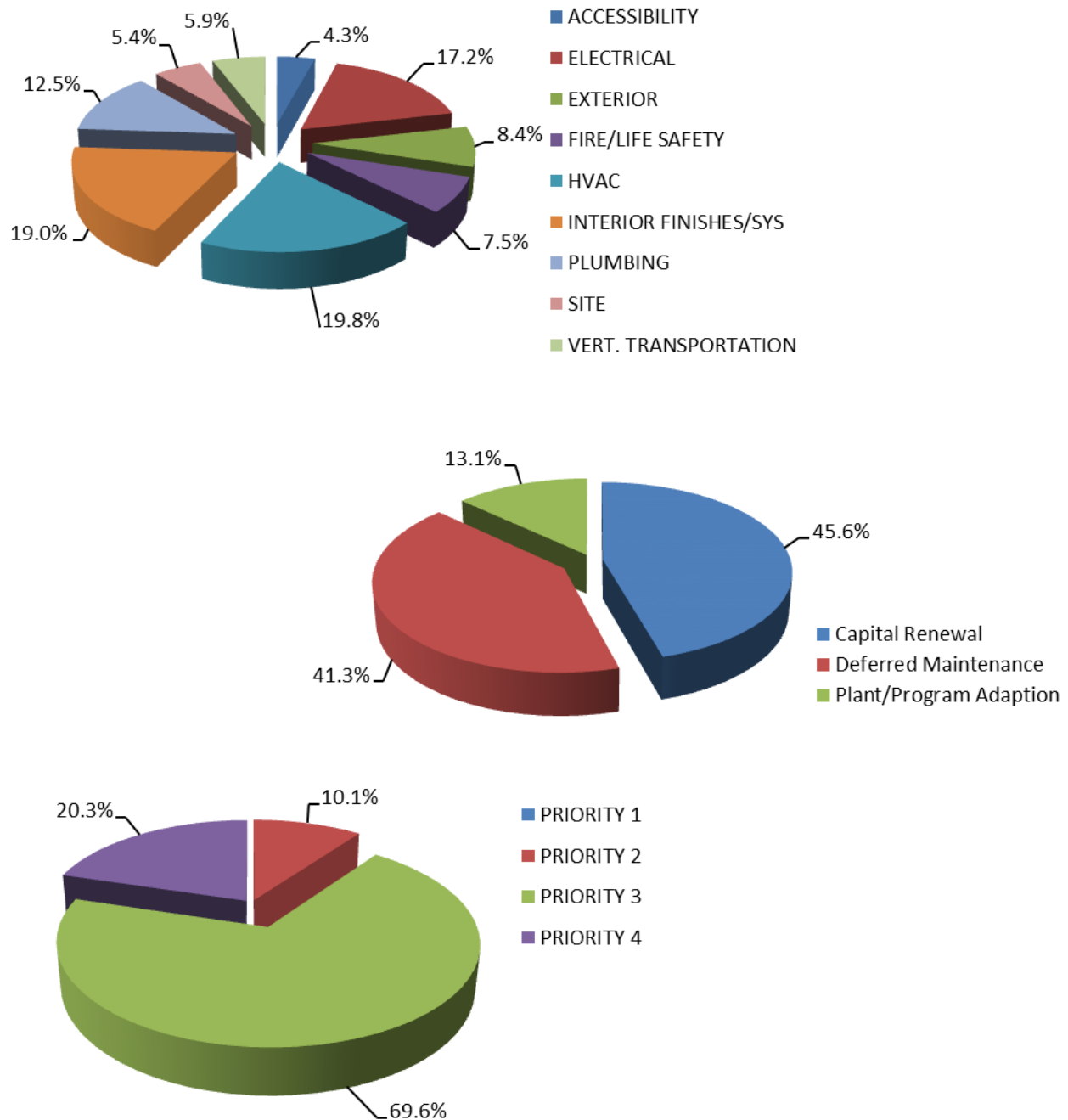


Figure 18 – Orchard Ridge

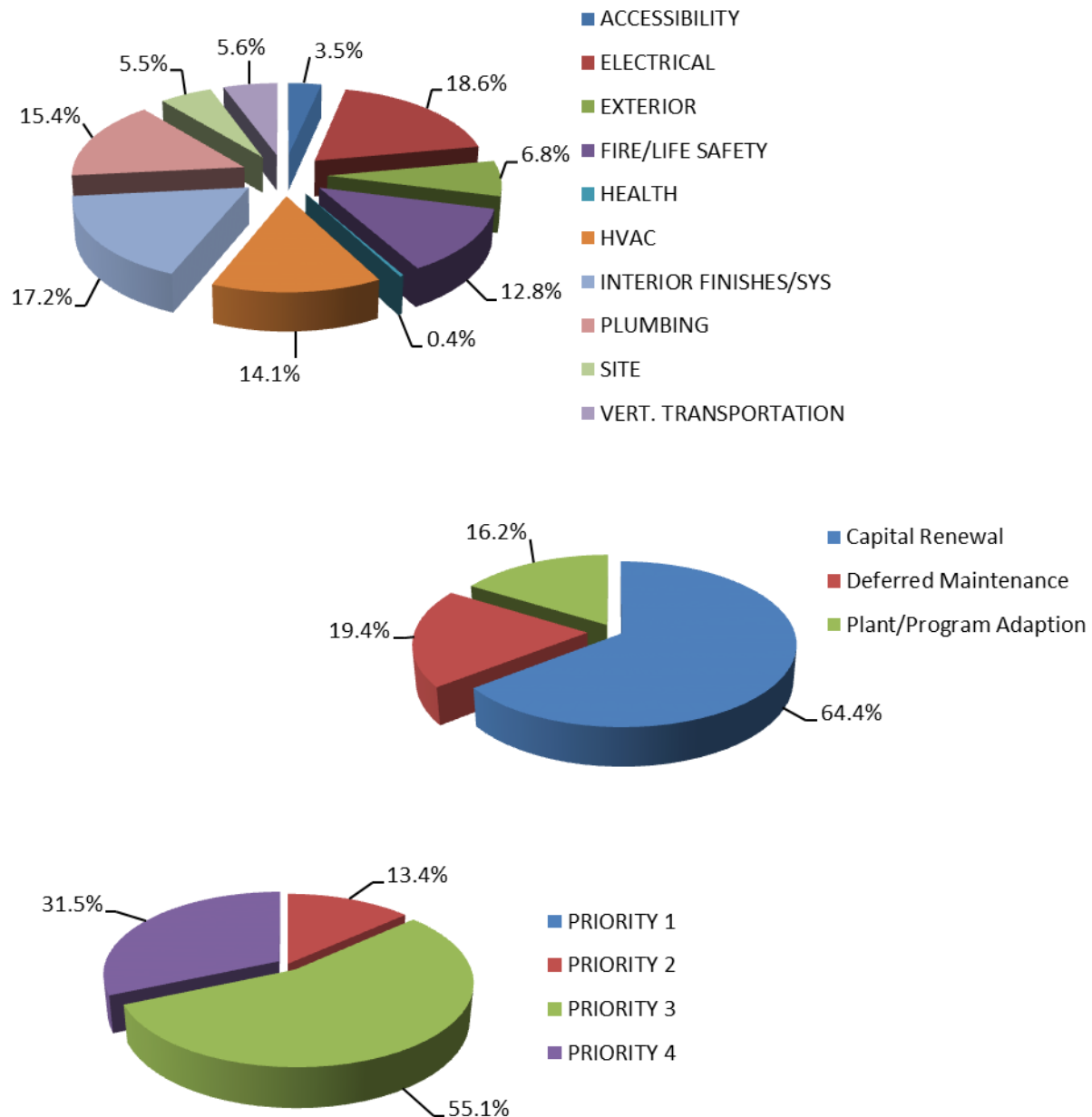


Figure 19 – Royal Oak

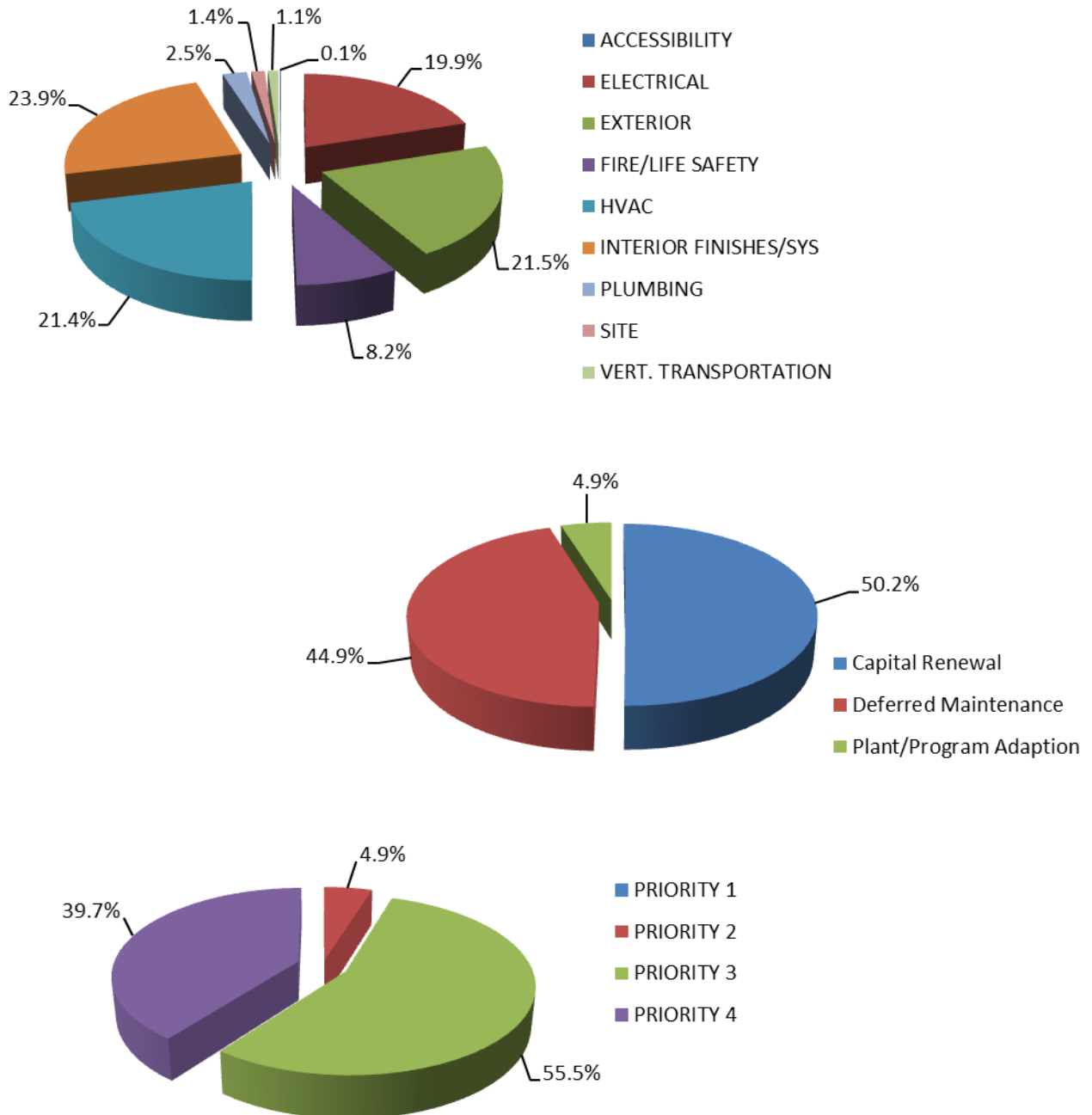
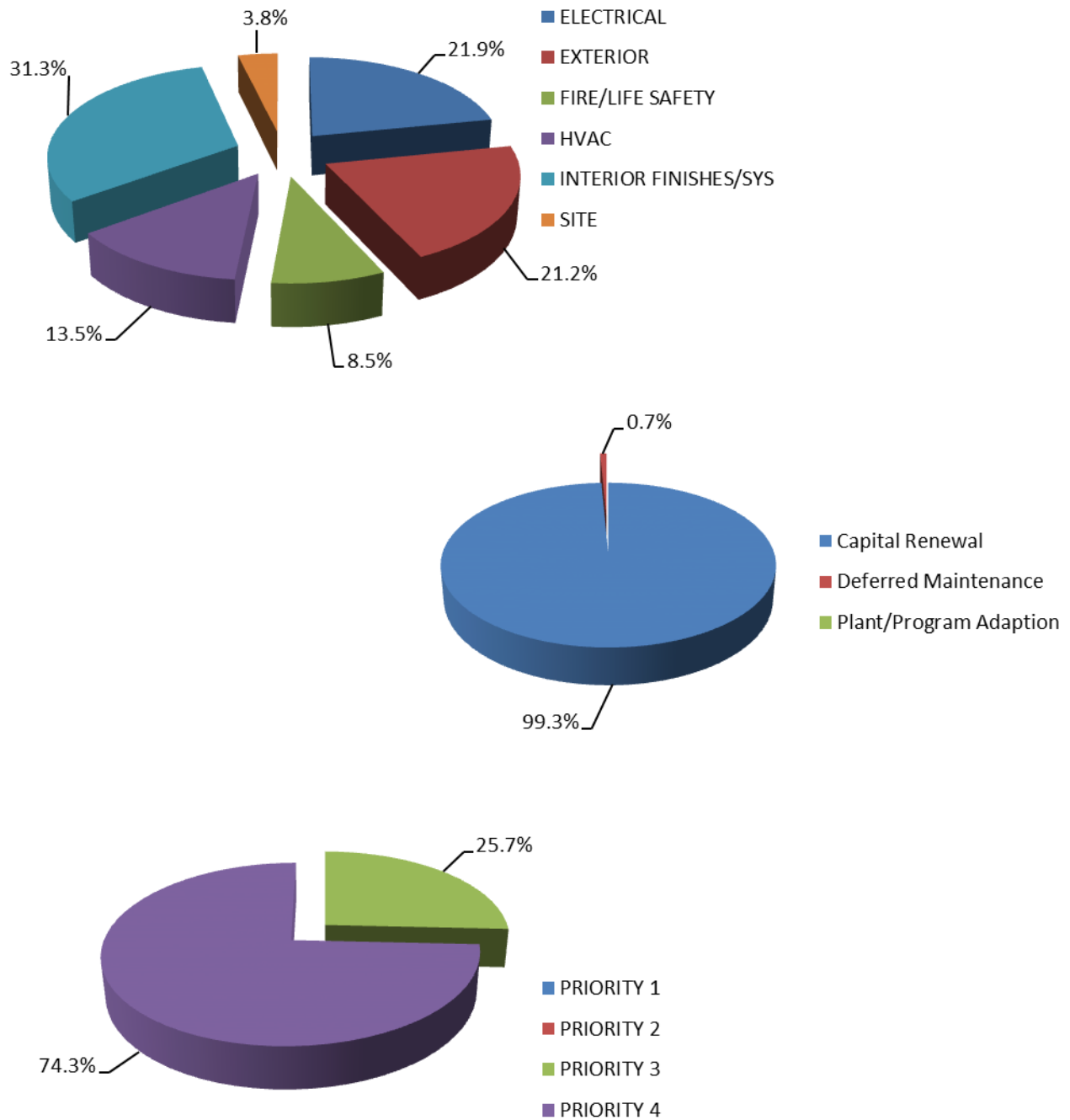


Figure 20 - Southfield



2.5 Summary of FCNI and Project Costs - Oakland Community College

ASSET CODE	ASSET NAME	ASSET USE	YEAR BUILT	GSF	CRV(\$)	TOTAL PROJECT COSTS	FCNI
> 0.50							
ROD	Fine Arts	CL	1980	30,160	9,148,250	5,411,891	0.59
HLHH	Highland Hall	CL	1928	68,741	21,077,370	11,518,112	0.55
AHF1	General Assembly - Main and Addition	CL	1970	25,550	8,503,810	4,644,569	0.55
AHC	Joseph E Hill	CL	1970	56,169	17,439,910	9,179,801	0.53
ROE	Lila R Jones-Johnson Theater	TH	1980	30,750	10,451,280	5,242,491	0.50
0.49 - 0.40							
ROA1	Classroom	CL	1980	28,443	9,466,680	4,430,008	0.47
HLPE	Physical Education	GM	1977	35,098	9,658,270	4,422,748	0.46
AHA	Earl M Anderson	CL	1970	104,725	29,198,590	12,611,175	0.43
AHE	Business, Science and Art	CL	1980	28,819	9,591,830	3,931,413	0.41
0.39 - 0.30							
AHMT2	Michigan Technical Ed Ctr - Annex	WH	2000	10,859	2,179,160	847,169	0.39
ORH	Community Activity	GM	1977	70,357	18,410,320	6,929,531	0.38
AHD	George R Mosher	CL	1975	52,197	16,370,600	5,712,591	0.35
DOMH	Doris Mosher Foundation House	OF	1925	4,889	1,684,500	556,854	0.33
ORF	Classroom Building F	CL	1967	28,280	9,412,430	2,903,747	0.31
AHT	Advanced Technology Center	CL	1983	38,060	12,272,450	3,722,664	0.30
ORK	Martin L. King Jr. Library	LY	1967	40,181	12,704,430	3,809,369	0.30
AHB	Administration	OF	1975	34,511	11,063,880	3,280,408	0.30
0.29 - 0.20							
ROG	Grounds Building	WH	1935	2,752	840,210	240,911	0.29
ORM	Administration	OF	1967	27,383	8,555,270	2,341,508	0.27
ORL	Arts Building	CL	1967	28,967	9,345,620	2,510,465	0.27
HLMB	Metal Building (Old Salt Storage)	WH	1998	1,200	197,650	52,003	0.26
AHMT1	Michigan Technical Ed Ctr - Main	CL	2000	27,561	9,173,130	2,404,448	0.26
DOGB	George A Bee Administration Center	OF	1965	26,230	8,195,040	2,124,350	0.26
ROB	Administration	CL	1980	38,036	12,264,710	3,086,323	0.25
ORD	Classroom Building D	LB	1967	28,561	10,678,820	2,666,689	0.25
ORN	Grounds Garage	ST	1972	4,008	1,223,680	298,945	0.24
ORA	Classroom Building A and Addition	LB	1967	36,363	11,725,250	2,672,060	0.23
ORB	Classroom Building B	LB	1967	26,555	9,928,780	2,203,979	0.22
AHS8	CREST - Convenience Store/Gas Station	RT	2002	3,000	613,020	134,443	0.22
ORJ	Tirrell Hall	SU	1967	118,364	37,184,050	7,740,780	0.21
HLSC	Student Center	SU	1972	31,120	11,008,700	2,023,091	0.18
ORG	Classroom Building G	CL	1967	26,781	8,913,520	1,627,139	0.18
ORE	Power House	PP	1967	17,581	5,132,950	920,884	0.18

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ASSET CODE	ASSET NAME	ASSET USE	YEAR BUILT	GSF	CRV (\$)	TOTAL PROJECT COSTS	FCNI
0.19 - 0.10							
AHS10	CREST - Ranch	RS	2001	1,890	559,650	95,540	0.17
SFSF2	Southfield - Building A Addition	LY	1999	10,882	4,516,430	749,856	0.17
ROM	Mall	OF	1980	29,562	9,236,060	1,475,846	0.16
AHK	Child Care Center	OF	1991	3,491	1,041,890	162,424	0.16
AHS9	CREST - Cape Cod	RS	2001	1,983	587,190	89,462	0.15
AHS1	CREST - Training Center	CL	2002	10,655	3,910,810	576,072	0.15
ORT	Smith Theatre	TH	1982	12,633	4,777,040	699,440	0.15
HLPVAV	Pavilion	WH	1994	2,025	333,540	48,283	0.14
ORC	Classroom Building C	LB	1967	26,627	11,049,140	1,574,580	0.14
AHS7	CREST - Bank	OF	2002	1,800	620,190	84,723	0.14
ROC	Learning Resources Center	LY	1980	20,188	6,947,900	902,419	0.13
AHF2	General Assembly - Addition	CL	1998	49,907	15,744,160	2,034,874	0.13
AHS6	CREST - Two-Story	RS	2001	2,700	799,500	100,778	0.13
HLHOH	High Oaks Hall	CL	1929	46,822	14,770,940	1,774,654	0.12
ROPS1	Parking Structure - North	PK	1983	155,975	6,337,260	689,465	0.11
HLGB1	Grounds Building	ST	1998	3,175	969,360	104,099	0.11
ROA2	Classroom Addition	CL	1999	21,080	7,398,870	793,735	0.11
ROP	Power House	PP	1982	3,926	2,698,650	288,871	0.11
SFSF1	Southfield - Building A	CL	1979	81,322	24,704,000	2,642,825	0.11
AHJ	Criminal Justice	CL	1981	21,378	7,503,460	801,837	0.11
0.09 - 0.00							
ROPS2	Parking Structure - South	PK	1999	175,000	7,087,500	671,437	0.09
HLLH	Levinson Hall (Science)	LB	1977	42,327	18,699,960	1,683,874	0.09
HLCP	Central Plant	ST	1999	8,135	2,483,700	219,375	0.09
HLWH	Woodland Hall (North)	CL	1980	42,505	13,705,740	1,149,270	0.08
AHG1	Bookstore/IT/Public Safety	RT	2008	29,909	10,580,310	828,223	0.08
AHS5	CREST - Motel	DM	2002	3,415	1,413,910	106,702	0.08
HLRC	Redwood Center	ST	1927	4,098	1,251,160	92,015	0.07
AHP	Power House	PP	1970	13,298	4,060,010	264,149	0.07
AHS2	CREST - Control Tower	CL	2003	1,352	841,460	42,465	0.05
AHL	Landscape Greenhouse	GR	1993	1,991	327,940	14,638	0.04
HLGB2	Grounds Covered Storage	WH	1998	3,997	658,350	25,697	0.04
HLPH	Pump House	PP	1965	1,500	247,070	8,909	0.04
HLWHA	Woodland Hall Addition (South)	OF	2008	54,470	16,657,200	547,915	0.03
AHH	Health Education	GM	1977	35,138	9,669,270	287,778	0.03
HLLHA	Levinson Hall Addition (Health)	LB	2006	38,130	13,623,560	382,017	0.03
AHG2	Student Union Addition	SU	2008	36,792	12,608,990	222,431	0.02
AHS3	CREST - Pole Barn Metal Bldg (CREST Stg)	WH	2008	1,739	530,930	8,045	0.02
AHS4	CREST - Burn Building	CL	2003	13,350	8,308,770	121,957	0.01
SFSF3	Southfield - Building B	LB	2010	71,800	32,880,090	370,145	0.01

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ASSET CODE	ASSET NAME	ASSET USE	YEAR BUILT	GSF	CRV (\$)	TOTAL PROJECT COSTS	FCNI
AHGM	Grounds Maintenance	WH	2008	3,494	1,066,750	10,484	0.01
AHH1	Weightlifting & Classroom Addition	GM	2010	12,195	3,819,840	16,458	0.00
AHGCS	Grounds Covered Storage	WH	2008	4,036	1,232,230	0	0.00
AHSD	Salt Dome	WH	2008	987	162,570	0	0.00
HLGB3	Salt Dome	WH	2005	900	148,240	0	0.00
ORP	Pump House	WH	1967	1,060	323,630	0	0.00
AHSI	Auburn Hills Campus Site	SI	1970			1,992,099	
HLSI	Highland Lakes Campus Site	SI	1977			\$1,638,015	
ORSI	Orchard Ridge Campus Site	SI	1967			2,271,493	
ROSI	Royal Oak Campus Site	SI	1980			\$247,352	
SFSI	Southfield Campus Site	SI	1979			144,558	

2.6 Summary of FCNI and Project Costs - by Campus

ASSET CODE	NAME	ASSET USE	YEAR BUILT	GSF	CRV	TOTAL PROJECT COSTS	FCNI
AHF1	General Assembly - Main and Addition	CL	1970	25,550	8,503,810	4,644,569	0.55
AHC	Joseph E Hill	CL	1970	56,169	17,439,910	9,179,801	0.53
AHA	Earl M Anderson	CL	1970	104,725	29,198,590	12,611,175	0.43
AHE	Business, Science And Art	CL	1980	28,819	9,591,830	3,931,413	0.41
AHMT2	Michigan Technical Ed Ctr - Annex	WH	2000	10,859	2,179,160	847,169	0.39
AHD	George R Mosher	CL	1975	52,197	16,370,600	5,712,591	0.35
AHT	Advanced Technology Ctr	CL	1983	38,060	12,272,450	3,722,664	0.30
AHB	Administration	OF	1975	34,511	11,063,880	3,280,408	0.30
AHMT1	Michigan Technical Ed Ctr - Main	CL	2000	27,561	9,173,130	2,404,448	0.26
AHS8	CREST - Convenience Store/ Gas Station	RT	2002	3,000	613,020	134,443	0.22
AHS10	CREST - Ranch	RS	2001	1,890	559,650	95,540	0.17
AHK	Child Care Center	OF	1991	3,491	1,041,890	162,424	0.16
AHS9	CREST - Cape Cod	RS	2001	1,983	587,190	89,462	0.15
AHS1	CREST - Training Center	CL	2002	10,655	3,910,810	576,072	0.15
AHS7	CREST - Bank	OF	2002	1,800	620,190	84,723	0.14
AHF2	General Assembly - Addition	CL	1998	49,907	15,744,160	2,034,874	0.13
AHS6	CREST - Two-Story	RS	2001	2,700	799,500	100,778	0.13
AHJ	Criminal Justice	CL	1981	21,378	7,503,460	801,837	0.11
AHG1	Bookstore/IT/Public Safety	RT	2008	29,909	10,580,310	828,223	0.08
AHS5	CREST - Motel	DM	2002	3,415	1,413,910	106,702	0.08
AHP	Power House	PP	1970	13,298	4,060,010	264,149	0.07
AHS2	CREST - Control Tower	CL	2003	1,352	841,460	42,465	0.05
AHL	Landscape Greenhouse	GR	1993	1,991	327,940	14,638	0.04
AHH	Health Education	GM	1977	35,138	9,669,270	287,778	0.03
AHG2	Student Union Addition	SU	2008	36,792	12,608,990	222,431	0.02
AHS3	CREST - Pole Barn Metal Bldg (CREST Stg)	WH	2008	1,739	530,930	8,045	0.02
AHS4	CREST - Burn Building	CL	2003	13,350	8,308,770	121,957	0.01
AHGM	Grounds Maintenance	WH	2008	3,494	1,066,750	10,484	0.01
AHH1	Weightlifting & Classroom Addition	GM	2010	12,195	3,819,840	16,458	0.00
AHGCS	Grounds Covered Storage	WH	2008	4,036	1,232,230	0	0.00
AHSD	Salt Dome	WH	2008	987	162,570	0	0.00
AHSI	Auburn Hills Campus Site	SI	1970			1,992,099	
AUBURN HILLS CAMPUS TOTALS			1984	627,928	\$200,401,410	\$54,329,820	0.27

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ASSET CODE	NAME	ASSET USE	YEAR BUILT	GSF	CRV	TOTAL PROJECT COSTS	FCNI
DOMH	Doris Mosher Foundation House	OF	1925	4,889	\$1,684,500	\$556,854	0.33
DOGB	George A. Bee Administration Ctr	OF	1965	26,230	\$8,195,040	\$2,124,350	0.26
DISTRICT OFFICE TOTALS			1959	31,119	\$9,879,540	\$2,681,204	0.27
HLHH	Highland Hall	CL	1928	68,741	\$21,077,370	\$11,518,112	0.55
HLPE	Physical Education	GM	1977	35,098	\$9,658,270	\$4,422,748	0.46
HLMB	Metal Building (Old Salt Storage)	WH	1998	1,200	\$197,650	\$52,003	0.26
HLSC	Student Center	SU	1972	31,120	\$11,008,700	\$2,023,091	0.18
HLPAV	Pavilion	WH	1994	2,025	\$333,540	\$48,283	0.14
HLHOH	High Oaks Hall	CL	1929	46,822	\$14,770,940	\$1,774,654	0.12
HLGB1	Grounds Building	ST	1998	3,175	\$969,360	\$104,099	0.11
HLLH	Levinson Hall (Science)	LB	1977	42,327	\$18,699,960	\$1,683,874	0.09
HLCP	Central Plant	ST	1999	8,135	\$2,483,700	\$219,375	0.09
HLWH	Woodland Hall (North)	CL	1980	42,505	\$13,705,740	\$1,149,270	0.08
HLRC	Redwood Center	ST	1927	4,098	\$1,251,160	\$92,015	0.07
HLGB2	Grounds Covered Storage	WH	1998	3,997	\$658,350	\$25,697	0.04
HLPH	Pump House	PP	1965	1,500	\$247,070	\$8,909	0.04
HLWHA	Woodland Hall Adtn (South)	OF	2008	54,470	\$16,657,200	\$547,915	0.03
HLLHA	Levinson Hall Adtn (Health)	LB	2006	38,130	\$13,623,560	\$382,017	0.03
HLGB3	Salt Dome	WH	2005	900	148,240	0	0.00
HLSI	Highland Lakes Campus Site	SI	1977			\$1,638,015	
HIGHLAND LAKES CAMPUS TOTALS			1970	383,343	\$125,342,570	\$25,690,077	0.20
ORH	Community Activity	GM	1977	70,357	18,410,320	6,929,531	0.38
ORF	Classroom Building F	CL	1967	28,280	9,412,430	2,903,747	0.31
ORK	Martin L. King Jr. Library	LY	1967	40,181	12,704,430	3,809,369	0.30
ORM	Administration	OF	1967	27,383	8,555,270	2,341,508	0.27
ORL	Arts Building	CL	1967	28,967	9,345,620	2,510,465	0.27
ORD	Classroom Building D	LB	1967	28,561	10,678,820	2,666,689	0.25
ORN	Grounds Garage	ST	1972	4,008	1,223,680	298,945	0.24
ORA	Classroom Building A & Adtn	LB	1967	36,363	11,725,250	2,672,060	0.23
ORB	Classroom Building B	LB	1967	26,555	9,928,780	2,203,979	0.22
ORJ	Tirrell Hall	SU	1967	118,364	37,184,050	7,740,780	0.21
ORG	Classroom Building G	CL	1967	26,781	8,913,520	1,627,139	0.18
ORE	Power House	PP	1967	17,581	5,132,950	920,884	0.18
ORT	Smith Theatre	TH	1982	12,633	4,777,040	699,440	0.15
ORC	Classroom Building C	LB	1967	26,627	11,049,140	1,574,580	0.14
ORP	Pump House	WH	1967	1,060	323,630	0	0.00
ORSI	Orchard Ridge Campus Site	SI	1967			2,271,493	
ORCHARD RIDGE CAMPUS TOTALS			1969	492,641	\$159,041,300	\$41,170,609	0.26

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ASSET CODE	NAME	ASSET USE	YEAR BUILT	GSF	CRV	TOTAL PROJECT COSTS	FCNI
ROD	Fine Arts	CL	1980	30,160	\$9,148,250	\$5,411,891	0.59
ROE	Lila R Jones-Johnson Theater	TH	1980	30,750	\$10,451,280	\$5,242,491	0.50
ROA1	Classroom	CL	1980	28,443	\$9,466,680	\$4,430,008	0.47
ROG	Grounds Building	WH	1935	2,752	\$840,210	\$240,911	0.29
ROB	Administration	CL	1980	38,036	\$12,264,710	\$3,086,323	0.25
ROM	Mall	OF	1980	29,562	\$9,236,060	\$1,475,846	0.16
ROC	Learning Resources Center	LY	1980	20,188	\$6,947,900	\$902,419	0.13
ROPS1	Parking Structure - North	PK	1983	155,975	\$6,337,260	\$689,465	0.11
ROA2	Classroom Addition	CL	1999	21,080	\$7,398,870	\$793,735	0.11
ROP	Power House	PP	1982	3,926	\$2,698,650	\$288,871	0.11
ROPS2	Parking Structure - South	PK	1999	175,000	\$7,087,500	\$671,437	0.09
ROSI	Royal Oak Campus Site	SI	1980			\$247,352	
ROYAL OAKS CAMPUS TOTALS			1988	535,872	\$81,877,370	\$23,480,749	0.29
SFSF2	Southfield - Building A Addition	LY	1999	10,882	4,516,430	749,856	0.17
SFSF1	Southfield - Building A	CL	1979	81,322	24,704,000	2,642,825	0.11
SFSF3	Southfield - Building B	LB	2010	71,800	32,880,090	370,145	0.01
SFSI	Southfield Campus Site	SI	1979			144,558	
SOUTHFIELD TOTALS			1994	164,004	\$62,100,520	\$3,907,383	0.06
GRAND TOTALS				2,241,890	\$640,509,380	\$151,259,842	0.24

2.7 Summary of Average Age and Facility Use Types

YEAR	# OF FACILITIES	% OF GSF	GSF	AVG. AGE
Pre-1960	5	5.7	127,302	84
1960 - 1969	14	19.4	434,433	45
1970 - 1979	13	26.1	585,820	38
1980 - 1989	13	21.4	480,435	31
1990 - 1999	11	12.5	280,883	11
2000 - Present	22	14.9	333,017	5
TOTALS	78	100.0%	2,241,890	32

ASSET TYPE CODE	DESCRIPTION	# OF ASSETS	% OF GSF	GSF
CL	Classroom / Academic	23	38.8	870,860
DM	Dormitory / Apartments	1	0.2	3,415
GM	Gymnasium / Athletics	4	6.8	152,788
GR	Greenhouse	1	0.1	1,991
LB	Laboratory	7	12.1	270,363
LY	Library	3	3.2	71,251
OF	Office / Administrative	8	8.1	182,336
PK	Parking / Garage	2	14.8	330,975
PP	Physical Plant / Utility	4	1.6	36,305
RS	Residential / Single Family	3	0.3	6,573
RT	Retail	2	1.5	32,909
SI	Site	5	NA	NA
ST	Shops / Trades	4	0.9	19,416
SU	Student Union	3	8.3	186,276
TH	Theater / Auditorium	2	1.9	43,383
WH	Warehouse / Storage / Utility	11	1.5	33,049
TOTALS		83	100.0%	2,241,890

Classroom Utilization

Fall 2014 classroom utilization is based on 30 count seats for enhanced classrooms. The morning is from 8:00am – 11:55am; afternoon 12:00pm – 5:55pm; evening 6:00pm – 9:55pm.

Auburn Hills:

Morning	Monday – Thursday	44%
Afternoon	Monday – Thursday	37%
Evening	Monday – Thursday	51%
	Friday	7%
	Saturday	3%

Highland Lakes:

Morning	Monday – Thursday	42%
Afternoon	Monday – Thursday	32%
Evening	Monday – Thursday	46%
	Friday	10%

Orchard Ridge:

Morning	Monday – Thursday	71%
	Friday	29%
Afternoon	Monday – Thursday	72%
	Friday	13%
Evening	Monday – Thursday	66%

Royal Oak:

Morning	Monday – Thursday	55%
Afternoon	Monday – Thursday	53%
Evening	Monday – Thursday	55%
	Friday/Saturday	15%

Southfield:

Morning	Monday – Thursday	45%
Afternoon	Monday – Thursday	30%
Evening	Monday – Thursday	45%
	Friday/Saturday	15%

Mandated Facility Standards & Space Allocation by Campus

Below are the mandated facility standards for specific programs and the campuses square footage distribution for the program areas:

- Ceramics – MIOSHA
- Culinary – State/County Health Department
- Photo (analogue) – MIOSHA
- All Science Labs – MIOSHA
- Auto and Body Lab – DEQ, EPA, MIOSHA
- Nursing – MIOSHA
- Radiation Therapy Technology – MIOSHA & Equipment Certification
- Respiratory Therapy – MIOSHA
- Surgical Technology - MIOSHA

Auburn Hills

- Advanced Engineering & Technology - 76,436 Sq. Ft.
- Emergency Services - 2,374
- Humanities - 10,481
- Life Science - 32,015
- Physical Science - 1,215

Highland Lake

- Dental - 7,500 Sq. Ft.
- Nursing - 6,340
- Massage Therapy - 1,132
- Medical Assist - 3,380

Orchard Ridge

- Life Science - 26,627 Sq. Ft.
- Business Administration - 28,280
- Performing Arts - 28,967
- Culinary - 85,500
- Humanities - 9,870
- Learning Resources - 22,953
- Physical Education - 46,765
- Computer Information Systems - 6,789

Royal Oak

- Ceramics - 7,000 Sq. Ft.
- CIS & Court Reporting - 5,800
- Management Technology - 7,500
- Photography - 5,800

Southfield

- All Science Labs - 15,500 Sq. Ft.
- Diagnostic Medical Sonography - 750
- Nursing - 5,500
- Radiation Therapy Technology - 1,750
- Respiratory Therapy - 1,650
- Surgical Technology - 1,650

Facility Replacement Values

The 2016 replacement value of the college's facilities was prepared by Michigan Community College Risk Management Authority.

Location No.	Location	Replacement Value
	Administrative Center	
1	Admin. Ctr. - District Office	6,073,300
47	Admin. Ctr.-Guest House	986,400
48	Admin. Ctr.-Pump House	8,900
	Auburn Hills Campus	
2	Auburn Hills Building A-G	104,821,800
9	Auburn Hills Building H/J	19,535,300
10	Auburn Hills - High Tech	8,702,700
11	Auburn Hills - Power House	10,284,400
12	Auburn Hills - Crest Vehicle Storage	143,100
49	Auburn Hills-Greenhouse	139,200
72	Auburn Hills Grounds Bldg.	1,101,600
73	Auburn Hills Covered Storage	344,000
74	Auburn Hills New Salt Storage	206,200
50	Auburn Hills Project Brave Storage	0
51	Auburn Hills Tech Storage Building	26,300
57	Auburn Hills Kiln Shelter	46,200
58	Auburn Hills M-TEC	8,862,700
60	Crest Training Center	3,198,900
61	Crest Bank	545,600
62	Crest Convenience Store	602,400
63	Crest Motel	560,600
64	Crest Cape Cod Residence	263,900
65	Crest Ranch Residence	309,400
66	Crest 2-Story Residence	305,900
67	Crest Detached Garage	48,100
68	Crest Burn Simulator	6,332,000
69	Crest Control Tower	731,600
	Highland Lakes Campus	
13	Highland Hall - Building B	0
14	Highland Lakes Building C - Student Union	7,503,600

15	High Lakes Building D - High Oaks Hall	10,609,200
16	Highland Lakes Building E - Physical Ed	8,455,300
17	Highland Lakes - Levinson Hall/Addition	20,712,300
18	Highland Lakes - Woodland Hall/Addition	22,350,600
19	Highland Lakes Building G - Redwood Center	879,600
20	Highland Lakes Maintenance Pole Barn	28,800
21	Highland Lakes-Pump house	491,100
52	Highland Lakes - Pavilion	146,100
54	Highland Lakes - Central Power Plant	13,340,300
55	Highland Lakes - Grounds Building	1,101,600
56	Highland Lakes - Covered Storage	344,000
71	Highland Lakes - Salt Storage	206,200
	Orchard Ridge Campus	
22	Orchard Ridge - Building A-D	31,992,800
26	Orchard Ridge - Building E-G	26,795,600
29	Orchard Ridge - Building H	13,787,400
30	Orchard Ridge.- Building J-K & Fine Arts	51,286,400
32	Orchard Ridge - Building L-M	15,047,500
34	Orchard Ridge - Building N	798,600
36	Orchard Ridge - Pump house	241,000
37	Orchard Ridge - Maintenance Storage	80,500
38	Orchard Ridge. - Utility Tunnels	980,000
53	Orchard Ridge - Kiln Shelter	90,500
	Royal Oak Campus	
40	Royal Oak - Building A-D & Mall	47,887,200
41	Royal Oak - Grounds Storage	272,800
42	Royal Oak - Parking Structure	19,225,800
43	Royal Oak - Power Plant	4,473,500
46	Pontiac Center	0
	Southfield Campus	
39	S.E. Campus-Southfield Building	43,010,600

\$
Grand Total 516,319,400.00

Utility System and Facility Infrastructure Condition

In 2012, the College commissioned a comprehensive facility report that assessed infrastructure conditions. Many key components however were not included in the scope. Presently, the College is examining restarting similar initiatives to both update the report and ensure the report contains all necessary elements.

Enterprise-Wide Energy Plan

A strategy is being developed to replace the current ad hoc energy plan with a comprehensive enterprise-wide energy management program. The goals for each campus are to achieve an Energy Star Rating about 75 and improve the rating by one point each of the next five years. Energy audits have not been completed on all facilities and there is no timetable for completing such audits.

Land owned by Oakland Community College

Below is the property that OCC possesses along with its acreage. At this time OCC has the capacity for future development.

➤ Auburn Hills Campus, Auburn Hills	170 acres
➤ Highland Lakes Campus, Waterford	157 acres
➤ Orchard Ridge Campus, Farmington Hills	147 acres
➤ Royal Oak Campus, Royal Oak	7 acres
➤ Southfield Campus, Southfield	31 acres
➤ District Office, Bloomfield Hills	8 acres

OCC does not have any State Building Authority leases.

Section V

Implementation Plan

The Five-Year Capital Outlay Plan should identify the schedule, by which the institution proposes to address major capital deficiencies, and:

- a. Prioritize major capital projects requested from the State, including a brief project description and estimated cost, in the format provided. (Adjust previously developed or prior year's figures utilizing industry standard CPI indexes where appropriate).**

Due to significant changes in our local economic landscape, OCC has redirected its focus as an institution and we will be presenting a new project for consideration in the near future.

- b. If applicable, provide an estimate relative to the institution's current deferred maintenance backlog. Define the impact of addressing deferred maintenance and structural repairs, including programmatic impact, immediately versus over the next five years.**

Refer to the Major Renovation and Maintenance Priorities document contained on next page.

- c. Include the status of on-going projects financed with State Building Authority resources and explain how completion coincides with the overall Five-year Capital Outlay Plan.**

There are no on-going projects financed with the State Building Authority at this time.

- d. Identify to the extent possible, a rate of return on planned expenditures. This could be expressed as operations "savings" that a planned capital expenditure would yield in future years.**

Not applicable.

- e. Where applicable, consider alternatives to new infrastructure, such as distance learning.**

Currently offer a variety of distance learning classes.

- f. Identify a maintenance schedule for major maintenance items in excess of \$1,000,000 for fiscal year 2018 through fiscal year 2022.**

Refer to the Major Renovation and Maintenance Priorities document contained on next page.

- g. Identify the amount on non-routine maintenance institution has budgeted for in its current fiscal year and relevant sources of financing.**

Refer to the Major Renovation and Maintenance Priorities document contained on next page. Sources of financing are funded from the capital operating budget.

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Auburn Hills	Building A	\$ 300,000	Building A Study		\$ 300,000														
Auburn Hills	Building A	\$ 190,555	INSTALL EMERGENCY GENERATOR AND POWER NETWORK	Plant Adaption									\$ 190,555						
Auburn Hills	Building A	\$ 137,645	CENTRAL TRANSITION STAIR RECONSTRUCTION	Plant Adaption									\$ 137,645						
Auburn Hills	Building A	\$ 27,402	INTERIOR DOOR UPGRADES	Plant Adaption		\$ 27,402													
Auburn Hills	Building A	\$ 638,244	INTERIOR LIGHTING UPGRADE	Deferred Maintenance		\$ 638,244													
Auburn Hills	Building A	\$ 137,023	BUILDING EXTERIOR REFURBISHING	Deferred Maintenance					\$ 137,023										
Auburn Hills	Building A	\$ 302,156	EXTERIOR DOOR REPLACEMENT	Deferred Maintenance					\$ 302,156										
Auburn Hills	Building A	\$ 4,564,265	HVAC SYSTEM REPLACEMENT	Deferred Maintenance		\$ 4,564,265													
Auburn Hills	Building A	\$ 217,832	REPLACE UNITARY HVAC SYSTEMS	Deferred Maintenance		\$ 217,832													
Auburn Hills	Building A	\$ 153,782	COMPUTER ROOM AC UNIT REPLACEMENT	Deferred Maintenance		\$ 153,782													
Auburn Hills	Building A	\$ 938,450	REFINISH FLOORING	Deferred Maintenance		\$ 938,450													
Auburn Hills	Building A	\$ 254,660	REFINISH WALLS	Deferred Maintenance		\$ 254,660													
Auburn Hills	Building A	\$ 424,317	REFINISH CEILINGS	Deferred Maintenance		\$ 424,317													
Auburn Hills	Building A	\$ 124,243	REPLACE INTERIOR DOORS	Deferred Maintenance		\$ 124,243													
Auburn Hills	Building A	\$ 132,802	RESTROOM RENOVATION	Deferred Maintenance		\$ 132,802													
Auburn Hills	Building A	\$ 381,533	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION	Deferred Maintenance												\$ 381,533			
Auburn Hills	Building A	\$ 100,400	REPLACE 277/480 V SWITCHGEAR AND DISTRIBUTION PANEL ASSEMBLY	Capital Renewal		\$ 100,400													
Auburn Hills	Building A	\$ 2,235,903	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal		\$ 2,235,903													
Auburn Hills	Building A	\$ 265,628	WINDOW REPLACEMENT	Capital Renewal					\$ 265,628										
Auburn Hills	Building A	\$ 445,093	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal									\$ 445,093						
Auburn Hills	Building A	\$ 89,822	REPLACE SPRINKLER HEADS	Capital Renewal									\$ 89,822						
Auburn Hills	Building A	\$ 905,393	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal		\$ 905,393													
Auburn Hills	Building A	\$ 1,356,198	DRAIN PIPING REPLACEMENT	Capital Renewal		\$ 1,356,198													
Auburn Hills	Building A		Building A Totals		\$ 300,000	\$ 12,073,891	\$ -	\$ -	\$ 704,807	\$ -	\$ -	\$ -	\$ 863,114	\$ -	\$ -	\$ 381,533	\$ -	\$ -	\$ -
Auburn Hills	Building B	\$ 107,661	RESTROOM RENOVATIONS	Plant Adaption		\$ 107,661													
Auburn Hills	Building B	\$ 114,323	INSTALL EMERGENCY GENERATOR AND POWER NETWORK	Plant Adaption									\$ 114,323						
Auburn Hills	Building B	\$ 31,660	INTERIOR DOOR UPGRADES	Plant Adaption								\$ 31,660							
Auburn Hills	Building B	\$ 93,837	INTERIOR LIGHTING UPGRADE	Deferred Maintenance					\$ 93,837										
Auburn Hills	Building B	\$ 110,987	EXTERIOR DOOR REPLACEMENTS	Capital Renewal					\$ 110,987										
Auburn Hills	Building B	\$ 376,643	REFINISH FLOORING	Capital Renewal							\$ 376,643								
Auburn Hills	Building B	\$ 110,108	REFINISH WALLS	Capital Renewal							\$ 110,108								
Auburn Hills	Building B	\$ 295,434	REFINISH CEILINGS	Capital Renewal							\$ 295,434								
Auburn Hills	Building B	\$ 12,731	KITCHENETTE UPGRADE	Capital Renewal							\$ 12,731								
Auburn Hills	Building B	\$ 886,509	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal								\$ 886,509							
Auburn Hills	Building B	\$ 708,342	WINDOW REPLACEMENT	Capital Renewal								\$ 708,342							
Auburn Hills	Building B	\$ 146,675	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal									\$ 146,675						
Auburn Hills	Building B	\$ 13,901	REPLACE SPLIT DX SYSTEMS	Capital Renewal					\$ 13,901										
Auburn Hills	Building B	\$ 273,867	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal						\$ 273,867									
Auburn Hills	Building B	\$ 409,941	DRAIN PIPING REPLACEMENT	Capital Renewal						\$ 409,941									
Auburn Hills	Building B	\$ 350,000	Elevator				\$ 350,000												
Auburn Hills	Building B		Building B Totals		\$ -	\$ 107,661	\$ -	\$ 350,000	\$ 107,738	\$ 794,795	\$ 794,915	\$ 1,626,511	\$ 260,998	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Auburn Hills	Building C	\$ 300,000	Building C Study		\$ 300,000														
Auburn Hills	Building C	\$ 12,843,495	Building Renovation	Capital Renewal		\$ 12,843,495													
Auburn Hills	Building C	\$ 131,795	INSTALL EMERGENCY GENERATOR AND POWER NETWORK	Plant Adaption															
Auburn Hills	Building C	\$ 106,115	FIRE SPRINKLER SYSTEM EXTENSION	Plant Adaption															
Auburn Hills	Building C	\$ 18,215	SELECTIVE INTERIOR DOOR HARDWARE UPGRADES	Plant Adaption															
Auburn Hills	Building C	\$ 325,568	INTERIOR LIGHTING UPGRADE	Deferred Maintenance															
Auburn Hills	Building C	\$ 533,420	BUILT-UP ROOF REPLACEMENT	Capital Renewal															
Auburn Hills	Building C	\$ 625,704	FUME HOOD REPLACEMENT	Deferred Maintenance															
Auburn Hills	Building C	\$ 589,950	LAB FLOORING UPGRADES	Plant Adaption															
Auburn Hills	Building C	\$ 333,154	STANDARD CARPETING UPGRADES	Capital Renewal															
Auburn Hills	Building C	\$ 120,793	STANDARD INTERIOR WALL REFINISHING	Capital Renewal															
Auburn Hills	Building C	\$ 338,141	ACOUSTICAL CEILING SYSTEM UPGRADES	Capital Renewal															
Auburn Hills	Building C	\$ 970,296	LABORATORY CASEWORK UPGRADES	Deferred Maintenance															
Auburn Hills	Building C	\$ 139,531	SECOND FLOOR RESTROOM RENOVATIONS	Capital Renewal															
Auburn Hills	Building C	\$ 37,650	REPLACE 277/480 V SWITCHGEAR AND DISTRIBUTION PANEL ASSEMBLY	Capital Renewal															
Auburn Hills	Building C	\$ 1,445,757	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal															
Auburn Hills	Building C	\$ 93,380	EXTERIOR SIDING REFURBISHING	Capital Renewal															
Auburn Hills	Building C	\$ 46,716	SELECTIVE EXTERIOR DOOR REPLACEMENTS	Capital Renewal															
Auburn Hills	Building C	\$ 110,784	SELECTIVE WINDOW UPGRADES	Capital Renewal															
Auburn Hills	Building C	\$ 238,724	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal															
Auburn Hills	Building C	\$ 3,189,714	HVAC SYSTEM REPLACEMENT	Capital Renewal															
Auburn Hills	Building C	\$ 46,902	DOMESTIC HOT WATER HEAT EXCHANGER REPLACEMENT	Capital Renewal															
Auburn Hills	Building C	\$ 675,478	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal															
Auburn Hills	Building C	\$ 1,011,917	DRAIN PIPING REPLACEMENT	Capital Renewal															
Auburn Hills	Building C	\$ 13,790	REPLACE SUMP PUMPS	Capital Renewal															
Auburn Hills	Building C		Building C Totals		\$ 300,000	\$ 12,843,495	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Auburn Hills	Building D	\$ 358,033	RESTROOM RENOVATION	Plant Adaption			\$ 358,033												
Auburn Hills	Building D	\$ 127,938	INSTALL EMERGENCY GENERATOR AND POWER NETWORK	Plant Adaption									\$ 127,938						
Auburn Hills	Building D	\$ 663,537	FIRE SPRINKLER SYSTEM INSTALLATION	Plant Adaption										\$ 663,537					
Auburn Hills	Building D	\$ 31,241	INTERIOR STAIR TREAD UPGRADES	Deferred Maintenance					\$ 31,241										
Auburn Hills	Building D	\$ 102,012	INTERIOR LIGHTING UPGRADE	Deferred Maintenance									\$ 102,012						
Auburn Hills	Building D	\$ 77,313	RESTORE BRICK VENEER	Deferred Maintenance					\$ 77,313										
Auburn Hills	Building D	\$ 84,046	EXTERIOR DOOR REPLACEMENT	Deferred Maintenance						\$ 84,046									
Auburn Hills	Building D	\$ 812,209	EXTERIOR GLAZING REPLACEMENTS	Deferred Maintenance								\$ 812,209							
Auburn Hills	Building D	\$ 613,693	STANDARD FLOORING UPGRADES	Capital Renewal								\$ 613,693							
Auburn Hills	Building D	\$ 195,568	REFINISH WALLS	Capital Renewal									\$ 195,568						
Auburn Hills	Building D	\$ 446,860	REFINISH CEILINGS	Deferred Maintenance									\$ 446,860						
Auburn Hills	Building D	\$ 204,124	REPLACE INTERIOR DOORS	Capital Renewal									\$ 204,124						
Auburn Hills	Building D	\$ 6,878	DOMESTIC WATER HEATER REPLACEMENT	Deferred Maintenance									\$ 6,878						
Auburn Hills	Building D	\$ 381,533	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION	Deferred Maintenance									\$ 381,533						
Auburn Hills	Building D	\$ 72,732	REPLACE PRIMARY SERVICE TRANSFORMER	Capital Renewal									\$ 72,732						
Auburn Hills	Building D	\$ 50,200	REPLACE 277/480 VOLT SWITCHBOARD	Capital Renewal									\$ 50,200						
Auburn Hills	Building D	\$ 1,159,819	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal									\$ 1,159,819						
Auburn Hills	Building D	\$ 221,843	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal									\$ 221,843						
Auburn Hills	Building D	\$ 530,872	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal									\$ 530,872						

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Auburn Hills	Building D	\$ 794,147	DRAIN PIPING REPLACEMENT	Capital Renewal									\$ 794,147						
Auburn Hills	Building D	\$ 10,000	Additional Electrical Outlets			\$ 10,000													
Auburn Hills	Building D		Building D Totals		\$ -	\$ 10,000	\$ 358,033	\$ -	\$ 108,554	\$ -	\$ 84,046	\$ 812,209	\$ 4,908,219	\$ 663,537	\$ -	\$ -	\$ -	\$ -	\$ -
Auburn Hills	Building E	\$ 76,471	INSTALL EMERGENCY GENERATOR AND POWER NETWORK	Plant Adaption									\$ 76,471						
Auburn Hills	Building E	\$ 358,059	INTERIOR LIGHTING UPGRADE	Deferred Maintenance			\$ 358,059												
Auburn Hills	Building E	\$ 20,259	RESTORE BRICK VENEER	Capital Renewal							\$ 20,259								
Auburn Hills	Building E	\$ 52,109	EXTERIOR DOOR REPLACEMENT	Deferred Maintenance							\$ 52,109								
Auburn Hills	Building E	\$ 24,718	REPLACE SPRINKLER HEADS	Deferred Maintenance			\$ 24,718												
Auburn Hills	Building E	\$ 243,759	SELECTIVE FLOORING UPGRADES	Capital Renewal			\$ 243,759												
Auburn Hills	Building E	\$ 96,964	REFINISH WALLS	Deferred Maintenance			\$ 96,964												
Auburn Hills	Building E	\$ 191,851	REFINISH CEILINGS	Capital Renewal			\$ 191,851												
Auburn Hills	Building E	\$ 108,212	REPLACE INTERIOR DOORS	Deferred Maintenance			\$ 108,212												
Auburn Hills	Building E	\$ 112,616	RESTROOM RENOVATIONS	Capital Renewal			\$ 112,616												
Auburn Hills	Building E	\$ 309,721	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION	Deferred Maintenance			\$ 309,721												
Auburn Hills	Building E	\$ 72,732	REPLACE PRIMARY SERVICE TRANSFORMER	Capital Renewal			\$ 72,732												
Auburn Hills	Building E	\$ 50,200	REPLACE 277/480 V SWITCHGEAR AND DISTRIBUTION PANEL ASSEMBLY	Capital Renewal			\$ 50,200												
Auburn Hills	Building E	\$ 794,958	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal			\$ 794,958												
Auburn Hills	Building E	\$ 143,031	WINDOW REPLACEMENT	Capital Renewal							\$ 143,031								
Auburn Hills	Building E	\$ 122,484	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal								\$ 122,484							
Auburn Hills	Building E	\$ 1,754,473	HVAC SYSTEM REPLACEMENT	Capital Renewal			\$ 1,754,473												
Auburn Hills	Building E	\$ 59,080	REPLACE SPLIT DX SYSTEMS	Capital Renewal			\$ 59,080												
Auburn Hills	Building E	\$ 46,902	DOMESTIC HOT WATER HEAT EXCHANGER REPLACEMENT	Capital Renewal			\$ 46,902												
Auburn Hills	Building E		Building E Totals		\$ -	\$ -	\$ 4,224,246	\$ -	\$ -	\$ -	\$ 215,399	\$ 122,484	\$ 76,471	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Auburn Hills	Building F	\$ 73,297	INSTALL EMERGENCY GENERATOR AND POWER NETWORK	Plant Adaption									\$ 73,297						
Auburn Hills	Building F	\$ 73,065	RESTROOM RENOVATIONS	Plant Adaption							\$ 73,065								
Auburn Hills	Building F	\$ 12,369	INTERIOR CENTRAL STAIR HANDRAIL UPGRADES	Plant Adaption					\$ 12,369										
Auburn Hills	Building F	\$ 37,650	REPLACE 277/480 V SWITCHGEAR AND DISTRIBUTION PANEL ASSEMBLY	Deferred Maintenance									\$ 37,650						
Auburn Hills	Building F	\$ 704,784	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Deferred Maintenance									\$ 704,784						
Auburn Hills	Building F	\$ 21,914	REPLACE SPRINKLER HEADS	Deferred Maintenance									\$ 21,914						
Auburn Hills	Building F	\$ 1,555,459	HVAC SYSTEM REPLACEMENT	Deferred Maintenance									\$ 1,555,459						
Auburn Hills	Building F	\$ 17,376	REPLACE SPLIT DX SYSTEMS	Capital Renewal									\$ 17,376						
Auburn Hills	Building F	\$ 285,782	REFINISH FLOORING	Deferred Maintenance				\$ 285,782											
Auburn Hills	Building F	\$ 40,200	REFINISH WALLS	Deferred Maintenance									\$ 40,200						
Auburn Hills	Building F	\$ 286,442	REFINISH CEILINGS	Capital Renewal									\$ 286,442						
Auburn Hills	Building F	\$ 1,340,882	FIXED SEATING AND COUNTER UPGRADE	Deferred Maintenance						\$ 1,340,882									
Auburn Hills	Building F	\$ 46,902	DOMESTIC HOT WATER HEAT EXCHANGER REPLACEMENT	Capital Renewal									\$ 46,902						
Auburn Hills	Building F	\$ 329,814	WATER SUPPLY PIPING REPLACEMENT	Deferred Maintenance									\$ 329,814						
Auburn Hills	Building F	\$ 493,011	DRAIN PIPING REPLACEMENT	Deferred Maintenance									\$ 493,011						
Auburn Hills	Building F	\$ 118,443	ELECTRICAL SYSTEM REPAIRS	Capital Renewal									\$ 118,443						
Auburn Hills	Building F	\$ 20,852	REPLACE SPLIT DX SYSTEMS	Capital Renewal					\$ 20,852		\$ 20,852								
Auburn Hills	Building F	\$ 287,988	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal					\$ 287,988										
Auburn Hills	Building F	\$ 129,259	INTERIOR WALL REFINISHING	Capital Renewal								\$ 129,259							
Auburn Hills	Building F	\$ 108,590	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal									\$ 108,590						
Auburn Hills	Building F	\$ 54,548	SELECTIVE BRICK REPOINTING	Capital Renewal									\$ 54,548						
Auburn Hills	Building F	\$ 229,972	EXTERIOR DOOR REPLACEMENTS	Capital Renewal									\$ 229,972						
Auburn Hills	Building F	\$ 212,110	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal									\$ 212,110						
Auburn Hills	Building F	\$ 33,341	PUMP REPLACEMENT	Capital Renewal									\$ 33,341						
Auburn Hills	Building F	\$ 624,795	GENERAL FLOORING UPGRADES	Capital Renewal				\$ 624,795											
Auburn Hills	Building F	\$ 284,781	ACOUSTICAL CEILING UPGRADES	Capital Renewal								\$ 284,781							
Auburn Hills	Building F	\$ 30,000	Exterior Stair Repairs		\$ 30,000														
Auburn Hills	Building F	\$ 350,000	Elevator				\$ 350,000												
Auburn Hills	Building F		Building F Totals		\$ 30,000	\$ -	\$ 350,000	\$ 624,795	\$ 606,991	\$ 1,340,882	\$ 93,917	\$ 414,039	\$ 4,363,855	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Auburn Hills	Building G	\$ 319,316	STANDARD FLOORING UPGRADES	Capital Renewal									\$ 319,316						
Auburn Hills	Building G	\$ 101,398	STANDARD WALL REFINISHING	Capital Renewal									\$ 101,398						
Auburn Hills	Building G	\$ 275,845	WINDOW REPLACEMENT	Capital Renewal									\$ 275,845						
Auburn Hills	Building G	\$ 131,156	SELECTIVE INTERIOR WALL REFINISHING	Capital Renewal									\$ 131,156						
Auburn Hills	Building G	\$ 138,857	STANDARD FLOORING UPGRADES	Capital Renewal									\$ 138,857						
Auburn Hills	Building G	\$ 60,000	Selective Window Replacements				\$ 60,000												
Auburn Hills	Building G	\$ 500,000	Elevator - Freight						\$ 500,000										
Auburn Hills	Building G	\$ 350,000	Elevator - Student							\$ 350,000									
Auburn Hills	Building G		Building G Totals		\$ -	\$ -	\$ 60,000	\$ -	\$ 500,000	\$ 350,000	\$ -	\$ -	\$ 966,571	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Auburn Hills	Building H	\$ 22,163	DOMESTIC WATER HEATER REPLACEMENT	Capital Renewal									\$ 22,163						
Auburn Hills	Building H	\$ 146,103	DRAIN PIPING REPLACEMENT	Capital Renewal									\$ 146,103						
Auburn Hills	Building H	\$ 23,194	REFINISH FLOORING	Capital Renewal									\$ 23,194						
Auburn Hills	Building H	\$ 50,906	REFINISH WALLS	Capital Renewal									\$ 50,906						
Auburn Hills	Building H	\$ 9,263	REPLACE CONTROLS AIR COMPRESSOR	Deferred Maintenance									\$ 9,263						
Auburn Hills	Building H	\$ 97,709	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal									\$ 97,709						
Auburn Hills	Building H	\$ 19,979	REFINISH WALLS	Capital Renewal									\$ 19,979						
Auburn Hills	Building H		Building H Totals		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 369,316	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Auburn Hills	Building J	\$ 117,724	EXTERIOR DOOR REPLACEMENT	Capital Renewal									\$ 117,724						
Auburn Hills	Building J	\$ 158,009	HEATING AND VENTILATING UNIT REPLACEMENT	Deferred Maintenance									\$ 158,009						
Auburn Hills	Building J	\$ 65,516	INTERIOR LIGHTING UPGRADE	Deferred Maintenance									\$ 65,516						
Auburn Hills	Building J	\$ 149,313	REFINISH FLOORING	Capital Renewal									\$ 149,313						
Auburn Hills	Building J	\$ 53,314	REFINISH WALLS	Capital Renewal									\$ 53,314						
Auburn Hills	Building J	\$ 355,874	WINDOW REPLACEMENT	Capital Renewal									\$ 355,874						
Auburn Hills	Building J		Building J Totals		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 899,749	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Auburn Hills	Building K	\$ 3,439	DOMESTIC WATER HEATER REPLACEMENT	Deferred Maintenance												\$ 3,439			
Auburn Hills	Building K	\$ 8,528	ELECTRICAL SYSTEM REPAIRS	Deferred Maintenance												\$ 8,528			
Auburn Hills	Building K	\$ 42,777	INTERIOR LIGHTING UPGRADE	Capital Renewal												\$ 42,777			
Auburn Hills	Building K	\$ 44,090	REFINISH FLOORING	Capital Renewal												\$ 5,568			
Auburn Hills	Building K	\$ 5,568	REFINISH WALLS	Capital Renewal												\$ 26,118			
Auburn Hills	Building K	\$ 26,118	WARMING KITCHEN CABINETRY UPGRADE	Capital Renewal															
Auburn Hills	Building K		Building K Totals		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 86,430	\$ -	\$ -	\$ -
Auburn Hills	Building T	\$ 200,000	Building Study			\$ 200,000													
Auburn Hills	Building T	\$ 309,721	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION	Deferred Maintenance					\$ 309,721										
Auburn Hills	Building T	\$ 92,294	ELECTRICAL SYSTEM REPAIRS	Deferred Maintenance		\$ 92,294													

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Auburn Hills	Greenhouse		Greenhouse Total		\$ -	\$ -	\$ 17,769	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Auburn Hills	Grounds Maintenance	\$ 4,739	DOMESTIC WATER HEATER REPLACEMENT	Capital Renewal			\$ 4,739												
Auburn Hills	Grounds Maintenance	\$ 7,989	REFINISH WALLS	Capital Renewal			\$ 7,989												
Auburn Hills	Grounds Maintenance		Grounds Maintenance Totals		\$ -	\$ -	\$ 12,727	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Auburn Hills	M-TEC	\$ 69,188	ELECTRICAL SYSTEM REPAIRS	Capital Renewal					\$ 69,188										
Auburn Hills	M-TEC	\$ 47,116	EXTERIOR DOOR REPLACEMENT	Capital Renewal									\$ 47,116						
Auburn Hills	M-TEC	\$ 52,507	EXTERIOR FACADE UPGRADES	Capital Renewal					\$ 52,507										
Auburn Hills	M-TEC	\$ 117,137	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal									\$ 117,137						
Auburn Hills	M-TEC	\$ 167,466	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal	\$ 167,466														
Auburn Hills	M-TEC	\$ 5,000	Orlowski Renovation																
Auburn Hills	M-TEC	\$ 75,249	INSTALL EMERGENCY GENERATOR AND POWER NETWORK	Plant Adaption											\$ 75,249				
Auburn Hills	M-TEC	\$ 235,890	REFINISH CEILINGS	Capital Renewal					\$ 235,890										
Auburn Hills	M-TEC	\$ 275,091	REFINISH FLOORING	Capital Renewal					\$ 275,091										
Auburn Hills	M-TEC	\$ 109,920	REFINISH WALLS	Capital Renewal					\$ 109,920										
Auburn Hills	M-TEC	\$ 23,639	REPLACE SPRINKLER HEADS	Capital Renewal									\$ 23,639						
Auburn Hills	M-TEC	\$ 1,486,956	UPGRADE TRANE AND LIEBERT UNITS	Capital Renewal	\$ 1,486,956														
Auburn Hills	M-TEC	\$ 663,687	CONCRETE PANEL RECAULKING	Capital Renewal					\$ 663,687										
Auburn Hills	M-TEC	\$ 10,396	ELECTRICAL SYSTEM REPAIRS	Capital Renewal					\$ 10,396										
Auburn Hills	M-TEC	\$ 14,666	EXTERIOR DOOR REPLACEMENT	Capital Renewal									\$ 14,666						
Auburn Hills	M-TEC	\$ 46,152	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal									\$ 46,152						
Auburn Hills	M-TEC	\$ 17,354	FURNACE REPLACEMENT	Capital Renewal	\$ 17,354														
Auburn Hills	M-TEC	\$ 9,314	REPLACE SPRINKLER HEADS	Capital Renewal									\$ 9,314						
Auburn Hills	M-TEC	\$ 5,380	SELECT WALL REFINISHING	Capital Renewal					\$ 5,380										
Auburn Hills	M-TEC	\$ 21,481	SELECTIVE FLOORING UPGRADES	Capital Renewal					\$ 21,481										
Auburn Hills	M-TEC	\$ 46,512	STAFF AREA CEILING UPGRADES	Capital Renewal					\$ 46,512										
Auburn Hills	M-TEC	\$ 350,000	ELEVATOR											\$ 350,000					
Auburn Hills	M-TEC		M-TEC Totals		\$ 1,671,776	\$ -	\$ -	\$ -	\$ 1,490,052	\$ -	\$ -	\$ -	\$ 258,025	\$ 350,000	\$ 75,249	\$ -	\$ -	\$ -	\$ -
Auburn Hills	Power House	\$ 9,477	DOMESTIC WATER HEATER REPLACEMENT	Deferred Maintenance							\$ 9,477								
Auburn Hills	Power House	\$ 12,889	INTERIOR LIGHTING UPGRADE	Deferred Maintenance									\$ 12,889						
Auburn Hills	Power House	\$ 33,711	REFINISH WALLS	Deferred Maintenance									\$ 33,711						
Auburn Hills	Power House	\$ 23,144	REPLACE EMERGENCY GENERATOR	Capital Renewal									\$ 23,144						
Auburn Hills	Power House	\$ 22,887	RESTORE BRICK VENEER	Capital Renewal						\$ 22,887									
Auburn Hills	Power House	\$ 10,504	SOUTH EXTERIOR DOOR REPLACEMENTS	Capital Renewal						\$ 10,504									
Auburn Hills	Power House	\$ 300,000	POWER HOUSE STUDY				\$ 300,000												
Auburn Hills	Power House	\$ 12,889	INTERIOR LIGHTING UPGRADE	Deferred Maintenance				\$ 12,889											
Auburn Hills	Power House	\$ 33,711	REFINISH WALLS	Deferred Maintenance				\$ 33,711											
Auburn Hills	Power House	\$ 9,477	DOMESTIC WATER HEATER REPLACEMENT	Deferred Maintenance				\$ 9,477											
Auburn Hills	Power House	\$ 23,144	REPLACE EMERGENCY GENERATOR	Capital Renewal				\$ 23,144											
Auburn Hills	Power House	\$ 22,887	RESTORE BRICK VENEER	Capital Renewal				\$ 22,887											
Auburn Hills	Power House	\$ 10,504	SOUTH EXTERIOR DOOR REPLACEMENTS	Capital Renewal				\$ 10,504											
Auburn Hills	Power House	\$ 56,518	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal				\$ 56,518											
Auburn Hills	Power House	\$ 6,951	REPLACE SPLIT DX SYSTEMS	Capital Renewal				\$ 6,951											
Auburn Hills	Power House	\$ 29,182	LOCKER ROOM RENOVATION	Capital Renewal				\$ 29,182											
Auburn Hills	Power House	\$ 2,810,000	Boiler #1					\$ 2,810,000											
Auburn Hills	Power House	\$ 2,810,000	Boiler #2					\$ 2,810,000											
Auburn Hills	Power House	\$ 2,810,000	Boiler #3															\$ 2,810,000	
Auburn Hills	Power House	\$ 2,800,000	Chiller #1					\$ 2,800,000											
Auburn Hills	Power House	\$ 2,800,000	Chiller #2					\$ 2,800,000											
Auburn Hills	Power House	\$ 630,000	Chiller #3					\$ 630,000											
Auburn Hills	Power House		Power House Totals		\$ -	\$ -	\$ 300,000	\$ 12,055,263	\$ -	\$ 33,391	\$ 9,477	\$ -	\$ 69,745	\$ -	\$ -	\$ -	\$ -	\$ 2,810,000	\$ -
Auburn Hills	Exterior	\$ 74,816	TENNIS COURT RESURFACING	Capital Renewal			\$ 74,816												
Auburn Hills	Exterior	\$ 190,910	LANDSCAPING REFURBISHING ALLOWANCE	Capital Renewal					\$ 190,910										
Auburn Hills	Exterior		Exterior Totals		\$ -	\$ -	\$ 74,816	\$ -	\$ 190,910	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grand Total					\$ 2,401,776	\$ 28,553,946	\$ 5,506,948	\$ 13,091,373	\$ 4,647,032	\$ 2,519,068	\$ 1,882,875	\$ 3,014,193	\$ 13,127,245	\$ 1,013,537	\$ 160,606	\$ 467,964	\$ -	\$ 2,810,000	\$ -

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
College Wide		\$ 1,000,000	Roof Upgrades		\$ 500,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
Auburn Hills	Building A	\$ 1,153,163	BUILT-UP ROOF REPLACEMENT	Capital Renewal													\$ 1,153,163		
Auburn Hills	Building B	\$ 276,477	BUILT-UP ROOF REPLACEMENT	Capital Renewal					\$ 276,477										
Auburn Hills	Building E	\$ 130,227	SELECTIVE BUILT-UP ROOF REPLACEMENT	Capital Renewal								\$ 130,227							
Auburn Hills	Building F	\$ 210,572	BUILT-UP ROOF REPLACEMENT	Capital Renewal				\$ 210,572											
Auburn Hills	Building F	\$ 448,514	BUILT-UP ROOF REPLACEMENT	Capital Renewal				\$ 448,514											
Auburn Hills	Building G	\$ 308,834	BUILT-UP ROOF REPLACEMENT	Capital Renewal									\$ 308,834						
Auburn Hills	Building J	\$ 67,485	BUILT-UP ROOF REPLACEMENT	Capital Renewal									\$ 67,485						
Auburn Hills	Building K	\$ 56,844	BUILT-UP ROOF REPLACEMENT	Capital Renewal					\$ 56,844										
Auburn Hills	Building T	\$ 70,164	BREEZEWAY ROOF UPGRADE	Deferred Maintenance	\$ 70,164														
Auburn Hills	Building T	\$ 305,656	GENERAL ROOFING UPGRADES	Capital Renewal					\$ 305,656										
Auburn Hills	CREST - Bank	\$ 1,887	BUILT-UP ROOF REPAIR	Deferred Maintenance	\$ 1,887														
Auburn Hills	CREST - Bank	\$ 62,010	MAIN ROOF REPLACEMENT	Capital Renewal						\$ 62,010									
Auburn Hills	CREST - Burn Building	\$ 37,062	CONCRETE ROOF DECK RECOATING	Capital Renewal	\$ 37,062														
Auburn Hills	CREST - Cape Cod	\$ 16,814	PITCHED ASPHALT SHINGLE ROOF REPLACEMENT	Capital Renewal						\$ 16,814									
Auburn Hills	CREST - Ranch	\$ 30,620	PITCHED ASPHALT SHINGLE ROOF REPLACEMENT	Capital Renewal									\$ 30,620						
Auburn Hills	CREST - Store/Gas Station	\$ 2,146	BUILT-UP ROOF REPAIR ALLOWANCE	Deferred Maintenance	\$ 2,146														
Auburn Hills	CREST - Store/Gas Station	\$ 64,689	BUILT-UP ROOF REPLACEMENT	Capital Renewal						\$ 64,689									
Auburn Hills	CREST - Training Center	\$ 197,031	GENERAL ROOFING UPGRADES	Capital Renewal									\$ 197,031						
Auburn Hills	CREST - Two Story	\$ 21,826	PITCHED ASPHALT SHINGLE ROOF REPLACEMENT	Capital Renewal									\$ 21,826						
Auburn Hills	M-TEC	\$ 248,830	BUILT-UP ROOF REPLACEMENT	Capital Renewal									\$ 248,830						
Auburn Hills	M-TEC	\$ 193,448	BUILT-UP ROOF REPLACEMENT	Capital Renewal							\$ 193,448								
Auburn Hills	Power House	\$ 115,392	BUILT-UP ROOF REPLACEMENT	Capital Renewal									\$ 115,392						
Auburn Hills	Power House	\$ 115,392	BUILT-UP ROOF REPLACEMENT	Capital Renewal									\$ 115,392						
Highland Lakes	Central Plant	\$ 126,822	BUILT-UP ROOF REPLACEMENT	Capital Renewal								\$ 126,822							
Highland Lakes	High Oaks Hall	\$ 176,782	BUILT-UP ROOF REPLACEMENT	Capital Renewal			\$ 176,782												
Highland Lakes	Levinson Hall	\$ 516,890	BUILT-UP ROOF REPLACEMENT	Capital Renewal								\$ 516,890							
Highland Lakes	Physical Education	\$ 79,598	BUILT-UP ROOF REPLACEMENT	Capital Renewal	\$ 79,598														
Highland Lakes	Pump House	\$ 4,722	PITCHED ASPHALT SHINGLE ROOF REPLACEMENT	Capital Renewal									\$ 4,722						
Highland Lakes	Redwood Center	\$ 55,423	REPLACE ROOFS	Capital Renewal				\$ 55,423											
Highland Lakes	Site	\$ 250,000	REPAIR ROOFING AND BUILDING ENVELOPES	Deferred Maintenance	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000										
Highland Lakes	Student Center	\$ 276,318	BUILT-UP ROOF REPLACEMENT	Capital Renewal			\$ 276,318												
Highland Lakes	Woodland Hall	\$ 376,622	BUILT-UP ROOF REPLACEMENT	Capital Renewal		\$ 376,622													
Royal Oak	Building A	\$ 216,408	BUILT-UP ROOF REPLACEMENT	Capital Renewal						\$ 216,408									
Royal Oak	Building A	\$ 155,859	BUILT-UP ROOF REPLACEMENT	Capital Renewal						\$ 155,859									
Royal Oak	Building B	\$ 435,860	BUILT-UP ROOF REPLACEMENT	Capital Renewal						\$ 435,860									
Royal Oak	Building C	\$ 163,942	BUILT-UP ROOF REPLACEMENT	Capital Renewal						\$ 163,942									
Royal Oak	Building D	\$ 308,061	BUILT-UP ROOF REPLACEMENT	Capital Renewal							\$ 308,061								
Royal Oak	Building E	\$ 336,194	MULTI-LEVEL BUILT-UP ROOF REPLACEMENT	Capital Renewal						\$ 336,194									
Royal Oak	Grounds Building	\$ 47,479	BUILT-UP ROOF REPLACEMENT	Capital Renewal						\$ 47,479									
Royal Oak	Mall	\$ 228,433	BUILT-UP ROOF REPLACEMENT	Capital Renewal						\$ 228,433									
Royal Oak	Power House	\$ 30,130	BUILT-UP ROOF REPLACEMENT	Capital Renewal						\$ 30,130									
Southfield	Building A	\$ 701,836	MEMBRANE ROOF REPLACEMENT	Capital Renewal						\$ 701,836									
Southfield	Building A	\$ 26,856	PITCHED METAL ROOF REPLACEMENT	Capital Renewal						\$ 26,856									
Southfield	Building A	\$ 179,230	MEMBRANE ROOF REPLACEMENT	Capital Renewal						\$ 179,230									
			Campus Subtotals - Not Included in Grand Total		\$ 215,857	\$ 401,622	\$ 478,100	\$ 739,509	\$ 663,977	\$ 2,665,738	\$ 501,509	\$ 773,939	\$ 1,105,410	\$ 4,722	\$ -	\$ 1,153,163	\$ -	\$ -	\$ -
College Wide		\$ 1,000,000	Paving, Catch Basin &Sidewalk Restoration		\$ 500,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
Auburn Hills	Building A	\$ 132,382	SITE PAVING UPGRADES	Deferred Maintenance					\$ 132,382										
Auburn Hills	Building B	\$ 11,030	SITE PAVING REPAIRS	Deferred Maintenance					\$ 11,030										
Auburn Hills	Building F	\$ 25,561	SIDEWALK AND RAMP REPAIRS	Capital Renewal		\$ 25,561													
Auburn Hills	Building J	\$ 6,128	SITE PAVING UPGRADES	Deferred Maintenance					\$ 6,128										
Auburn Hills	Building K	\$ 9,805	SITE PAVING UPGRADES	Deferred Maintenance					\$ 9,805										
Auburn Hills	CREST - Motel	\$ 11,123	SITE PAVING UPGRADES	Capital Renewal	\$ 11,123														
Auburn Hills	CREST - Store/Gas Station	\$ 1,550	ENTRY SIDEWALK REPAIR	Capital Renewal	\$ 1,550														
Auburn Hills	M-TEC	\$ 9,805	SITE PAVING UPGRADES	Deferred Maintenance					\$ 9,805										
Auburn Hills	Site	\$ 30,459	SIDEWALK CURB CUT UPGRADES	Plant Adaption	\$ 30,459														
Auburn Hills	Site	\$ 53,472	GENERAL CONCRETE SIDEWALK REPAIR ALLOWANCE	Capital Renewal	\$ 53,472														
Auburn Hills	Site	\$ 10,587	CREST CONCRETE SIDEWALK REPAIR ALLOWANCE	Capital Renewal	\$ 10,587														
Auburn Hills	Site	\$ 573,079	PARKING AND ROADS REPAIR ALLOWANCE	Deferred Maintenance		\$ 573,079													
Auburn Hills	Site	\$ 31,820	CREST PARKING AND ROADS REPAIR ALLOWANCE	Capital Renewal	\$ 31,820														
Auburn Hills	Site	\$ 1,453,095	SELECTIVE PARKING LOT AND ROAD REPAVING	Capital Renewal	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
Highland Lakes	Site	\$ 1,008,794	PARKING AND ROAD PAVING UPGRADES	Capital Renewal	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Highland Lakes	Site	\$ 73,931	GENERAL CONCRETE SIDEWALK REPAIR ALLOWANCE	Capital Renewal			\$ 73,931												

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Highland Lakes	Site	\$ 30,459	SIDEWALK CURB CUT UPGRADES	Plant Adaption				\$ 30,459											
Orchard Ridge	Site	\$ 753,041	PARKING AND ROADS REPAIR ALLOWANCE	Capital Renewal		\$ 165,000	\$ 165,000	\$ 165,000	\$ 165,000										
Orchard Ridge	Site	\$ 29,670	SIDEWALK REPAIR ALLOWANCE	Capital Renewal		\$ 5,200	\$ 5,200	\$ 5,200	\$ 5,200										
Orchard Ridge	Site	\$ 1,591,630	SELECTIVE PARKING LOT AND ROAD REPAVING	Capital Renewal	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
Orchard Ridge	Site		Site Study for Paving, Sidewalks and Drainage		\$ 100,000														
Orchard Ridge	BUILIDNG K		WATER INFILTRATION		\$ 50,000														
Royal Oak	North Parking Structure	\$ 56,362	SITE PAVING UPGRADES	Deferred Maintenance							\$ 56,362								
Royal Oak	Site	\$ 18,735	SIDEWALK CURB CUT UPGRADES	Plant Adaption									\$ 18,735						
Royal Oak	Site	\$ 14,786	GENERAL CONCRETE SIDEWALK REPAIR ALLOWANCE	Capital Renewal									\$ 14,786						
Royal Oak	Site	\$ 121,689	PARKING LOT PAVING UPGRADES	Capital Renewal									\$ 121,689						
Royal Oak	South Parking Structure	\$ 45,924	SITE PAVING UPGRADES	Capital Renewal								\$ 45,924							
Southfield	Building A	\$ 2,967	WESTERN EXTERIOR SIDEWALK RAMP REPAIRS	Deferred Maintenance				\$ 2,967											
Southfield	Site	\$ 105,540	PARKING LOT PAVING UPGRADES	Capital Renewal						\$ 105,540									
Southfield	Site	\$ 11,090	CONCRETE SIDEWALK REPAIR ALLOWANCE	Capital Renewal						\$ 11,090									
			Campus Subtotals - Not Included in Grand Total		\$ 489,012	\$ 968,840	\$ 444,131	\$ 403,627	\$ 539,350	\$ 316,630	\$ 256,362	\$ 245,924	\$ 355,211	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
College Wide		\$ 1,500,000	Academic/Campus Enhancements		\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000
College Wide		\$ 100,000	Install Sub Meters in each Building			\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
College Wide		\$ 1,000,000	Emerging Needs/Contingency/Emergency Repair		\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
College Wide		\$ 150,000	Carpet Replacement			\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
College Wide	College Wide		Construction Management Core Staff		\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000	\$ 975,000
Grand Total					\$ 4,475,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000	\$ 5,725,000

Academic/Campus Enhancements
Roof program
Paving program

Major Renovation / Maintenance Program

Oakland Community College

[illegible]

Major Renovation / Maintenance Program

Oakland Community College

[illegible]

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Highland Lakes	Physical Education	\$ 111,932	LOCKER ROOM RENOVATION	Plant Adaption		\$ 111,932													
Highland Lakes	Physical Education	\$ 122,872	RESTROOM RENOVATION	Plant Adaption		\$ 122,872													
Highland Lakes	Physical Education	\$ 138,350	BLEACHER SEATING UPGRADE	Capital Renewal		\$ 138,350													
Highland Lakes	Physical Education	\$ 201,048	INSTALL AIR-COOLED CHILLER	Plant Adaption		\$ 201,048													
Highland Lakes	Physical Education	\$ 315,983	UPGRADE GYMNASIUM FLOORING	Capital Renewal		\$ 315,983													
Highland Lakes	Physical Education	\$ 327,035	INTERIOR LIGHTING UPGRADE	Deferred Maintenance		\$ 327,035													
Highland Lakes	Physical Education	\$ 341,596	IMPROVE DRAINAGE ON NORTH ELEVATION	Capital Renewal		\$ 341,596													
Highland Lakes	Physical Education	\$ 473,590	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal		\$ 473,590													
Highland Lakes	Physical Education	\$ 1,969,941	HVAC SYSTEM REPLACEMENT	Deferred Maintenance		\$ 1,969,941													
Highland Lakes	Physical Education	\$ 195,196	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal		\$ 195,196													
Highland Lakes	Physical Education	\$ 291,872	DRAIN PIPING REPLACEMENT	Capital Renewal		\$ 291,872													
Highland Lakes	Physical Education		Physical Education Totals		\$ 100,000	\$ 5,171,509	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 114,893	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Highland Lakes	Redwood Center	\$ 5,361	EXTERIOR LIGHTING REPLACEMENT	Capital Renewal		\$ 5,361													
Highland Lakes	Redwood Center	\$ 10,426	REPLACE SPLIT DX SYSTEM (SERVING UNIT VENTILATOR)	Capital Renewal						\$ 10,426									
Highland Lakes	Redwood Center	\$ 20,914	REPLACE 120/208 V SWITCHGEAR AND DISTRIBUTION PANEL ASSEMBLY	Deferred Maintenance													\$ 20,914		
Highland Lakes	Redwood Center	\$ 19,574	EXHAUST FAN REPLACEMENT	Capital Renewal				\$ 19,574											
Highland Lakes	Redwood Center		Redwood Center Totals		\$ -	\$ 5,361	\$ -	\$ 19,574	\$ -	\$ -	\$ 10,426	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,914	\$ -	\$ -
Highland Lakes	Exterior	\$ 40,849	SITE STAIR RECONSTRUCTION	Deferred Maintenance											\$ 40,849				
Highland Lakes	Exterior		Misc Projects																
Highland Lakes	Exterior	\$ 74,816	TENNIS COURT RESURFACING	Deferred Maintenance				\$ 74,816											
Highland Lakes	Exterior	\$ 137,539	LANDSCAPING REFURBISHING ALLOWANCE	Capital Renewal			\$ 137,539												
Highland Lakes	Exterior	\$ 622,022	SITE LIGHTING UPGRADE	Capital Renewal					\$ 622,022										
Highland Lakes	Exterior		Exterior Totals		\$ -	\$ -	\$ 137,539	\$ 74,816	\$ 622,022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,849	\$ -	\$ -	\$ -	\$ -
Highland Lakes	Student Center	\$ 17,123	DECK UPGRADE	Deferred Maintenance								\$ 17,123							
Highland Lakes	Student Center	\$ 111,030	INSTALL EMERGENCY GENERATOR AND POWER NETWORK	Plant Adaption								\$ 111,030							
Highland Lakes	Student Center	\$ 148,034	RESTROOM RENOVATION	Plant Adaption	\$ 148,034														
Highland Lakes	Student Center	\$ 6,951	REPLACE SPLIT DX SYSTEM	Capital Renewal										\$ 6,951					
Highland Lakes	Student Center	\$ 24,885	STAIR AND ATRIUM SAFETY UPGRADES	Plant Adaption			\$ 24,885												
Highland Lakes	Student Center	\$ 30,995	REPLACE SECONDARY STEP-DOWN TRANSFORMERS	Capital Renewal			\$ 30,995												
Highland Lakes	Student Center	\$ 381,533	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION	Capital Renewal						\$ 381,533									
Highland Lakes	Student Center	\$ 13,790	REPLACE SEWAGE EJECTORS	Capital Renewal				\$ 13,790											
Highland Lakes	Student Center	\$ 113,532	REFINISH WALLS	Capital Renewal								\$ 113,532							
Highland Lakes	Student Center	\$ 329,464	NEW CARPETING	Capital Renewal			\$ 329,464												
Highland Lakes	Student Center	\$ 401,715	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal								\$ 401,715							
Highland Lakes	Student Center	\$ 600,490	DRAIN PIPING REPLACEMENT	Capital Renewal								\$ 600,490							
Highland Lakes	Student Center		Student Center Totals		\$ 148,034	\$ -	\$ 385,344	\$ -	\$ 13,790	\$ 381,533	\$ -	\$ 113,532	\$ 1,130,359	\$ -	\$ 6,951	\$ -	\$ -	\$ -	\$ -
Highland Lakes	Woodland Hall (North)	\$ 6,951	REPLACE SPLIT DX SYSTEMS	Capital Renewal						\$ 6,951									
Highland Lakes	Woodland Hall (North)	\$ 27,897	REPLACE SECONDARY STEP-DOWN TRANSFORMERS	Capital Renewal		\$ 27,897													
Highland Lakes	Woodland Hall (North)	\$ 51,490	REPLACE PRIMARY SERVICE ENTRANCE TRANSFORMER	Capital Renewal														\$ 51,490	
Highland Lakes	Woodland Hall (North)	\$ 426,985	NEW CARPETING	Capital Renewal				\$ 426,985											
Highland Lakes	Woodland Hall (North)	\$ 12,143	INTERIOR DOOR UPGRADES	Plant Adaption		\$ 12,143													
Highland Lakes	Woodland Hall (North)	\$ 13,790	REPLACE SEWAGE EJECTORS	Capital Renewal		\$ 13,790													
Highland Lakes	Woodland Hall (North)	\$ 169,517	REFINISH WALLS	Capital Renewal				\$ 169,517											
Highland Lakes	Woodland Hall (North)	\$ 309,721	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION	Capital Renewal					\$ 309,721										
Highland Lakes	Woodland Hall (North)		Woodland Hall (North) Totals		\$ -	\$ 53,830	\$ -	\$ 596,502	\$ 309,721	\$ 6,951	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 51,490	\$ -
Highland Lakes	Woodland Hall (South)	\$ 221,006	REFINISH WALLS AND CEILINGS	Capital Renewal								\$ 221,006							
Highland Lakes	Woodland Hall (South)	\$ 444,117	NEW CARPETING	Capital Renewal													\$ 444,117		
Highland Lakes	Woodland Hall (South)	\$ 350,000	Elevator					\$ 350,000							\$ 350,000				
Highland Lakes	Woodland Hall (South)		Woodland Hall (South) Totals		\$ -	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 221,006	\$ -	\$ -	\$ 350,000	\$ -	\$ 444,117	\$ -	\$ -
			Grand Total		\$ 248,034	\$ 6,364,539	\$ 757,068	\$ 1,094,803	\$ 945,533	\$ 822,470	\$ 857,658	\$ 635,908	\$ 2,952,359	\$ -	\$ 3,267,799	\$ -	\$ 550,031	\$ 51,490	\$ -

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Orchard Ridge	Building A	\$ 462,253	FIRE SPRINKLER SYSTEM INSTALLATION	Plant Adaption						\$ 462,253									
Orchard Ridge	Building A	\$ 28,127	STAIR SAFETY UPGRADES	Plant Adaption						\$ 28,127									
Orchard Ridge	Building A	\$ 486,014	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal						\$ 486,014									
Orchard Ridge	Building A	\$ 9,487	EXTERIOR CLEANING AND MINOR REPAIRS	Capital Renewal						\$ 9,487									
Orchard Ridge	Building A	\$ 6,074	MEMBRANE ROOF REPLACEMENT	Capital Renewal						\$ 6,074									
Orchard Ridge	Building A	\$ 46,100	HEAT EXCHANGER REPLACEMENT	Deferred Maintenance											\$ 46,100				
Orchard Ridge	Building A	\$ 20,004	PUMP REPLACEMENT	Capital Renewal						\$ 20,004									
Orchard Ridge	Building A	\$ 377,376	REFINISH FLOORING	Capital Renewal						\$ 377,376									
Orchard Ridge	Building A	\$ 103,211	REFINISH WALLS	Capital Renewal						\$ 103,211									
Orchard Ridge	Building A	\$ 260,629	REFINISH CEILINGS	Capital Renewal						\$ 260,629									
Orchard Ridge	Building A	\$ 227,148	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal						\$ 227,148									
Orchard Ridge	Building A	\$ 340,139	DRAIN PIPING REPLACEMENT	Capital Renewal						\$ 340,139									
Orchard Ridge	Building A	\$ 23,366	DRINKING FOUNTAIN ACCESSIBILITY UPGRADES	Plant Adaption						\$ 23,366									
Orchard Ridge	Building A	\$ 25,100	REPLACE 277/480 V SWITCHGEAR AND DISTRIBUTION PANEL ASSEMBLY	Capital Renewal						\$ 25,100									
Orchard Ridge	Building A	\$ 223,911	WINDOW REPLACEMENT	Capital Renewal						\$ 223,911									
Orchard Ridge	Building A	\$ 214,164	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal						\$ 214,164									
Orchard Ridge	Building A	\$ 381,533	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION	Capital Renewal						\$ 381,533									
Orchard Ridge	Building A		Building A Totals		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,188,537	\$ -	\$ -	\$ -	\$ -	\$ 46,100	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Building B	\$ 337,572	FIRE SPRINKLER SYSTEM INSTALLATION	Plant Adaption					\$ 337,572										
Orchard Ridge	Building B	\$ 30,125	STAIR SAFETY UPGRADES	Plant Adaption					\$ 30,125										
Orchard Ridge	Building B	\$ 86,177	ELECTRICAL SYSTEM REPAIRS	Deferred Maintenance					\$ 86,177										
Orchard Ridge	Building B	\$ 10,015	MINOR EXTERIOR REPAIRS AND CLEANING	Deferred Maintenance					\$ 10,015										
Orchard Ridge	Building B	\$ 6,074	MEMBRANE ROOF REPLACEMENT	Capital Renewal					\$ 6,074										
Orchard Ridge	Building B	\$ 437,993	FUME HOOD REPLACEMENT	Deferred Maintenance					\$ 437,993										
Orchard Ridge	Building B	\$ 46,100	HEAT EXCHANGER REPLACEMENT	Deferred Maintenance											\$ 46,100				
Orchard Ridge	Building B	\$ 275,026	REFINISH FLOORING	Capital Renewal					\$ 275,026										
Orchard Ridge	Building B	\$ 64,244	REFINISH WALLS	Capital Renewal					\$ 64,244										
Orchard Ridge	Building B	\$ 203,270	RESTROOM RENOVATION	Capital Renewal					\$ 203,270										
Orchard Ridge	Building B	\$ 191,861	UPGRADE CEILING FINISHES	Capital Renewal					\$ 191,861										
Orchard Ridge	Building B	\$ 186,581	PARTIAL WATER SUPPLY PIPING REPLACEMENT	Deferred Maintenance					\$ 186,581										
Orchard Ridge	Building B	\$ 278,940	PARTIAL DRAIN PIPING REPLACEMENT	Deferred Maintenance					\$ 278,940										
Orchard Ridge	Building B	\$ 236,681	WINDOW REPLACEMENT	Capital Renewal					\$ 236,681										
Orchard Ridge	Building B	\$ 20,004	PUMP REPLACEMENT	Capital Renewal					\$ 20,004										
Orchard Ridge	Building B	\$ 218,124	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal					\$ 218,124										
Orchard Ridge	Building B	\$ 43,182	LABORATORY CASEWORK UPGRADES	Capital Renewal					\$ 43,182										
Orchard Ridge	Building B	\$ 200,000	Wheel Chair Elevator										\$ 200,000						
Orchard Ridge	Building B		Buildng B Totals		\$ -	\$ -	\$ -	\$ -	\$ 2,625,868	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 46,100	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Building C	\$ 338,487	FIRE SPRINKLER SYSTEM INSTALLATION	Plant Adaption							\$ 338,487								
Orchard Ridge	Building C	\$ 24,098	STAIR SAFETY UPGRADES	Plant Adaption							\$ 24,098								
Orchard Ridge	Building C	\$ 142,141	HEAT EXCHANGER REPLACEMENT	Deferred Maintenance											\$ 142,141				
Orchard Ridge	Building C	\$ 110,041	NEW CARPETING	Capital Renewal							\$ 110,041								
Orchard Ridge	Building C	\$ 381,533	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION	Deferred Maintenance							\$ 381,533								
Orchard Ridge	Building C	\$ 11,683	INTERIOR AMENITY ACCESSIBILITY UPGRADES	Plant Adaption							\$ 11,683								
Orchard Ridge	Building C	\$ 105,501	ELECTRICAL SYSTEM REPAIRS	Capital Renewal							\$ 105,501								
Orchard Ridge	Building C	\$ 8,012	EXTERIOR CLEANING AND REPAIRS	Capital Renewal							\$ 8,012								
Orchard Ridge	Building C	\$ 189,005	WINDOW REPLACEMENT	Capital Renewal							\$ 189,005								
Orchard Ridge	Building C	\$ 63,347	PUMP REPLACEMENT	Capital Renewal							\$ 63,347								
Orchard Ridge	Building C	\$ 275,219	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal							\$ 275,219								
Orchard Ridge	Building C	\$ 64,394	REFINISH WALLS	Capital Renewal							\$ 64,394								
Orchard Ridge	Building C	\$ 192,383	REFINISH CEILINGS	Capital Renewal							\$ 192,383								
Orchard Ridge	Building C		Building C Totals		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,763,703	\$ -	\$ -	\$ -	\$ 142,141	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Building D		Relocate Photo Lab to Building L			\$ 500,000													
Orchard Ridge	Building D	\$ 363,072	FIRE SPRINKLER SYSTEM INSTALLATION	Plant Adaption			\$ 363,072												
Orchard Ridge	Building D	\$ 51,349	STAIR SAFETY UPGRADES	Plant Adaption			\$ 51,349												
Orchard Ridge	Building D	\$ 355,817	INTERIOR LIGHTING UPGRADE	Capital Renewal			\$ 355,817												
Orchard Ridge	Building D	\$ 803,439	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal			\$ 803,439												
Orchard Ridge	Building D	\$ 9,061	EXTERIOR REPAIRS AND CLEANING	Capital Renewal			\$ 9,061												
Orchard Ridge	Building D	\$ 57,625	HEAT EXCHANGER REPLACEMENT	Deferred Maintenance											\$ 57,625				
Orchard Ridge	Building D	\$ 286,633	NEW CARPETING	Capital Renewal			\$ 286,633												
Orchard Ridge	Building D	\$ 68,646	REFINISH WALLS	Capital Renewal			\$ 68,646												
Orchard Ridge	Building D	\$ 165,151	REFINISH CEILINGS	Capital Renewal			\$ 165,151												
Orchard Ridge	Building D	\$ 41,280	REPLACE DETERIORATED INTERIOR DOORS	Capital Renewal			\$ 41,280												
Orchard Ridge	Building D	\$ 20,031	REPLACE SERVICE SINKS AND HAND WASHING SINKS	Deferred Maintenance			\$ 20,031												
Orchard Ridge	Building D	\$ 200,675	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal			\$ 200,675												
Orchard Ridge	Building D	\$ 300,010	DRAIN PIPING REPLACEMENT	Capital Renewal			\$ 300,010												
Orchard Ridge	Building D	\$ 35,049	INTERIOR AMENITY ACCESSIBILITY UPGRADES	Plant Adaption			\$ 35,049												
Orchard Ridge	Building D	\$ 214,546	WINDOW REPLACEMENT	Capital Renewal			\$ 214,546												
Orchard Ridge	Building D	\$ 26,672	PUMP REPLACEMENT	Capital Renewal			\$ 26,672												
Orchard Ridge	Building D	\$ 234,601	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal			\$ 234,601												
Orchard Ridge	Building D		Building D Totals		\$ -	\$ 500,000	\$ 3,176,033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57,625	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Building F	\$ 359,500	FIRE SPRINKLER SYSTEM INSTALLATION	Plant Adaption															
Orchard Ridge	Building F	\$ 3,337,561	Buildng Renovation																
Orchard Ridge	Building F	\$ 205,045	RESTROOM RENOVATION	Plant Adaption													\$ 205,045		
Orchard Ridge	Building F	\$ 35,215	INTERIOR DOOR UPGRADES	Plant Adaption													\$ 35,215		

Major Renovation / Maintenance Program

Oakland Community College

[illegible]

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Orchard Ridge	Building J	\$ 331,514	RENEW FLOORING	Capital Renewal			\$ 331,514												
Orchard Ridge	Building J	\$ 283,237	REFINISH WALLS	Capital Renewal			\$ 283,237												
Orchard Ridge	Building J	\$ 48,344	REPLACE A PERCENTAGE OF INTERIOR DOORS	Capital Renewal			\$ 48,344												
Orchard Ridge	Building J	\$ 677,817	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal			\$ 677,817												
Orchard Ridge	Building J	\$ 1,014,082	DRAIN PIPING REPLACEMENT	Capital Renewal			\$ 1,014,082												
Orchard Ridge	Building J		Building J Totals		\$ -	\$ -	\$ 9,120,415	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 272,757	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Building K	\$ 504,860	FIRE SPRINKLER SYSTEM EXTENSION	Plant Adaption					\$ 504,860										
Orchard Ridge	Building K	\$ 24,676	RETURN AIR FAN REPLACEMENT	Deferred Maintenance					\$ 24,676										
Orchard Ridge	Building K	\$ 68,212	STAIR AND RAILING SAFETY UPGRADES	Plant Adaption					\$ 68,212										
Orchard Ridge	Building K	\$ 50,200	REPLACE 277/480 V SWITCHGEAR AND DISTRIBUTION PANEL ASSEMBLY	Deferred Maintenance					\$ 50,200										
Orchard Ridge	Building K	\$ 267,995	INTERIOR LIGHTING UPGRADE	Deferred Maintenance					\$ 267,995										
Orchard Ridge	Building K	\$ 534,592	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal					\$ 534,592										
Orchard Ridge	Building K	\$ 213,783	REPLACE TERMINAL UNITS	Capital Renewal					\$ 213,783										
Orchard Ridge	Building K	\$ 57,625	HEAT EXCHANGER REPLACEMENT	Deferred Maintenance											\$ 57,625				
Orchard Ridge	Building K	\$ 35,687	EXHAUST FAN REPLACEMENT	Deferred Maintenance					\$ 35,687										
Orchard Ridge	Building K	\$ 10,002	PUMP REPLACEMENT	Deferred Maintenance					\$ 10,002										
Orchard Ridge	Building K	\$ 454,660	NEW CARPETING	Capital Renewal					\$ 454,660										
Orchard Ridge	Building K	\$ 84,392	REFINISH WALLS	Capital Renewal					\$ 84,392										
Orchard Ridge	Building K	\$ 247,364	REFINISH CEILINGS	Capital Renewal					\$ 247,364										
Orchard Ridge	Building K	\$ 381,533	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION	Deferred Maintenance					\$ 381,533										
Orchard Ridge	Building K		WATER INFILTRATION STUDY		\$ 50,000														
Orchard Ridge	Building K	\$ 93,234	EXTERIOR REPAIRS AND CLEANING	Capital Renewal					\$ 93,234										
Orchard Ridge	Building K	\$ 323,521	WINDOW REPLACEMENT	Capital Renewal					\$ 323,521										
Orchard Ridge	Building K	\$ 254,356	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal					\$ 254,356										
Orchard Ridge	Building K	\$ 463,550	RESTROOM RENOVATION	Capital Renewal					\$ 463,550										
Orchard Ridge	Building K	\$ 219,313	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal					\$ 219,313										
Orchard Ridge	Building K	\$ 328,635	DRAIN PIPING REPLACEMENT	Capital Renewal					\$ 328,635										
Orchard Ridge	Building K		Building K Totals		\$ 50,000	\$ -	\$ -	\$ -	\$ 4,560,566	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57,625	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Building L	\$ 368,233	FIRE SPRINKLER SYSTEM INSTALLATION	Plant Adaption			\$ 368,233												
Orchard Ridge	Building L	\$ 39,306	STAIR SAFETY UPGRADES	Plant Adaption			\$ 39,306												
Orchard Ridge	Building L	\$ 193,956	INTERIOR LIGHTING UPGRADE	Deferred Maintenance			\$ 193,956												
Orchard Ridge	Building L	\$ 753,535	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal			\$ 753,535												
Orchard Ridge	Building L	\$ 159,499	REPLACE TERMINAL UNITS	Deferred Maintenance			\$ 159,499												
Orchard Ridge	Building L	\$ 46,100	HEAT EXCHANGER REPLACEMENT	Deferred Maintenance											\$ 46,100				
Orchard Ridge	Building L	\$ 78,737	EXHAUST FAN REPLACEMENT	Capital Renewal			\$ 78,737												
Orchard Ridge	Building L	\$ 90,603	NEW CARPETING	Capital Renewal			\$ 90,603												
Orchard Ridge	Building L	\$ 170,488	REFINISH CEILINGS	Capital Renewal			\$ 170,488												
Orchard Ridge	Building L	\$ 38,995	REPLACE STANDARD CASEWORK	Capital Renewal			\$ 38,995												
Orchard Ridge	Building L	\$ 23,630	PLUMBING FIXTURE REPLACEMENT	Capital Renewal			\$ 23,630												
Orchard Ridge	Building L	\$ 253,489	WATER SUPPLY PIPING REPLACEMENT	Deferred Maintenance			\$ 253,489												
Orchard Ridge	Building L	\$ 379,616	DRAIN PIPING REPLACEMENT	Deferred Maintenance			\$ 379,616												
Orchard Ridge	Building L	\$ 8,432	EXTERIOR CLEANING AND MINOR REPAIRS	Capital Renewal			\$ 8,432												
Orchard Ridge	Building L	\$ 20,004	PUMP REPLACEMENT	Capital Renewal			\$ 20,004												
Orchard Ridge	Building L	\$ 159,275	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal			\$ 159,275												
Orchard Ridge	Building L	\$ 56,850	REFINISH WALLS	Capital Renewal			\$ 56,850												
Orchard Ridge	Building L	\$ 203,270	RESTROOM RENOVATION	Capital Renewal			\$ 203,270												
Orchard Ridge	Building L		Building L Totals		\$ -	\$ -	\$ 2,997,916	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46,100	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Building M	\$ 348,097	FIRE SPRINKLER SYSTEM INSTALLATION	Plant Adaption		\$ 348,097													
Orchard Ridge	Building M	\$ 46,143	INTERIOR DOOR UPGRADES	Plant Adaption		\$ 46,143													
Orchard Ridge	Building M	\$ 47,055	STAIR SAFETY UPGRADES	Plant Adaption		\$ 47,055													
Orchard Ridge	Building M	\$ 668,821	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal		\$ 668,821													
Orchard Ridge	Building M	\$ 150,185	REPLACE TERMINAL UNITS	Deferred Maintenance		\$ 150,185													
Orchard Ridge	Building M	\$ 3,475	REPLACE SPLIT DX SYSTEMS	Capital Renewal		\$ 3,475													
Orchard Ridge	Building M	\$ 46,100	HEAT EXCHANGER REPLACEMENT	Deferred Maintenance											\$ 46,100				
Orchard Ridge	Building M	\$ 24,816	EXHAUST FAN REPLACEMENT	Deferred Maintenance		\$ 24,816													
Orchard Ridge	Building M	\$ 148,877	REFINISH FLOORING	Capital Renewal		\$ 148,877													
Orchard Ridge	Building M	\$ 126,211	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal		\$ 126,211													
Orchard Ridge	Building M	\$ 189,393	DRAIN PIPING REPLACEMENT	Capital Renewal		\$ 189,393													
Orchard Ridge	Building M	\$ 381,533	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION	Deferred Maintenance		\$ 381,533													
Orchard Ridge	Building M	\$ 3,051	INTERIOR PATH OF TRAVEL ACCESSIBILITY UPGRADES	Plant Adaption		\$ 3,051													
Orchard Ridge	Building M	\$ 178,129	RESTROOM RENOVATION	Capital Renewal		\$ 178,129													
Orchard Ridge	Building M	\$ 8,432	MINOR EXTERIOR REPAIRS AND CLEANING	Capital Renewal		\$ 8,432													
Orchard Ridge	Building M	\$ 20,004	PUMP REPLACEMENT	Capital Renewal		\$ 20,004													
Orchard Ridge	Building M	\$ 135,238	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal		\$ 135,238													
Orchard Ridge	Building M	\$ 109,205	REFINISH WALLS	Capital Renewal		\$ 109,205													
Orchard Ridge	Building M	\$ 207,626	REFINISH CEILINGS	Capital Renewal		\$ 207,626													
Orchard Ridge	Building M		Building M Totals			\$ 2,796,291	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46,100	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Grounds Garage	\$ 10,936	OVERHEAD DOOR REPLACEMENT	Deferred Maintenance										\$ 10,936					
Orchard Ridge	Grounds Garage	\$ 9,283	INSTALL BATTERY BACKUP EMERGENCY LIGHTS AND EXIT SIGNS	Plant Adaption										\$ 9,283					
Orchard Ridge	Grounds Garage	\$ 10,426	INSTALL SPLIT DX HVAC SYSTEM	Plant Adaption										\$ 10,426					
Orchard Ridge	Grounds Garage	\$ 24,624	INTERIOR LIGHTING UPGRADE	Capital Renewal										\$ 24,624					
Orchard Ridge	Grounds Garage	\$ 79,618	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal										\$ 79,618					
Orchard Ridge	Grounds Garage	\$ 53,760	BUILT-UP ROOF REPLACEMENT	Capital Renewal										\$ 53,760					
Orchard Ridge	Grounds Garage	\$ 25,702	EXTERIOR REPAIRS	Capital Renewal										\$ 25,702					

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Orchard Ridge	Grounds Garage	\$ 9,787	EXHAUST FAN REPLACEMENT	Deferred Maintenance										\$ 9,787					
Orchard Ridge	Grounds Garage	\$ 13,016	FURNACE REPLACEMENT	Deferred Maintenance										\$ 13,016					
Orchard Ridge	Grounds Garage	\$ 14,776	PLUMBING FIXTURE REPLACEMENT	Capital Renewal										\$ 14,776					
Orchard Ridge	Grounds Garage	\$ 12,072	REPLACE GREASE TRAP AND FLOOR DRAIN	Deferred Maintenance										\$ 12,072					
Orchard Ridge	Grounds Garage	\$ 5,109	REPLACE SHOP AIR COMPRESSOR	Capital Renewal										\$ 5,109					
Orchard Ridge	Grounds Garage	\$ 42,752	PITCHED METAL ROOF REPLACEMENT	Capital Renewal										\$ 42,752					
Orchard Ridge	Grounds Garage	\$ 32,808	OVERHEAD DOOR REPLACEMENT	Capital Renewal										\$ 32,808					
Orchard Ridge	Grounds Garage	\$ 14,216	DOMESTIC WATER HEATER REPLACEMENT	Capital Renewal										\$ 14,216					
Orchard Ridge	Grounds Garage		Grounds Garage Totals		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 358,884	\$ -	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Power House	\$ 300,000	Power House Study		\$ 300,000														
Orchard Ridge	Power House	\$ 3,000,000	Building Upgrade			\$ 2,000,000													
Orchard Ridge	Power House	\$ 171,333	FIRE SPRINKLER SYSTEM EXTENSION	Plant Adaption															
Orchard Ridge	Power House	\$ 103,230	INTERIOR LIGHTING UPGRADE	Deferred Maintenance															
Orchard Ridge	Power House	\$ 167,123	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal															
Orchard Ridge	Power House	\$ 4,289	EXTERIOR LIGHTING REPLACEMENT	Capital Renewal															
Orchard Ridge	Power House	\$ 25,702	EXTERIOR REPAIRS AND CLEANING	Capital Renewal															
Orchard Ridge	Power House	\$ 6,553	REPLACE EXIT SIGNS	Deferred Maintenance															
Orchard Ridge	Power House	\$ 24,094	STAIR SAFETY UPGRADES	Plant Adaption															
Orchard Ridge	Power House	\$ 25,530	REPLACE HVAC UNIT IN THE MAINTENANCE OFFICES	Deferred Maintenance															
Orchard Ridge	Power House	\$ 11,525	HEAT EXCHANGER REPLACEMENT	Deferred Maintenance															
Orchard Ridge	Power House	\$ 9,263	REPLACE CONTROLS AIR COMPRESSOR	Deferred Maintenance															
Orchard Ridge	Power House	\$ 17,327	REPLACE STANDARD CASEWORK	Capital Renewal															
Orchard Ridge	Power House	\$ 33,644	LOCKER ROOM RENOVATION	Capital Renewal															
Orchard Ridge	Power House	\$ 28,740	PLUMBING FIXTURE REPLACEMENT	Capital Renewal															
Orchard Ridge	Power House	\$ 87,430	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal															
Orchard Ridge	Power House	\$ 130,720	DRAIN PIPING REPLACEMENT	Capital Renewal															
Orchard Ridge	Power House	\$ 263,469	COMPREHENSIVE FREIGHT ELEVATOR MODERNIZATION	Deferred Maintenance															
Orchard Ridge	Power House	\$ 7,901	MEMBRANE ROOF REPLACEMENT	Capital Renewal															
Orchard Ridge	Power House		MISC PROJECTS																
Orchard Ridge	Power House	\$ 2,000,000	Boiler #1			\$ 2,000,000													
Orchard Ridge	Power House	\$ 2,000,000	Boiler #2			\$ 2,000,000													
Orchard Ridge	Power House	\$ 2,000,000	Boiler #3			\$ 2,000,000													
Orchard Ridge	Power House	\$ 1,000,000	Chiller #1			\$ 1,000,000													
Orchard Ridge	Power House	\$ 1,000,000	Chiller #2			\$ 1,000,000													
Orchard Ridge	Power House		Power House Totals		\$ 300,000	\$ 10,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Exterior	\$ 56,511	SITE RAIL UPGRADES	Deferred Maintenance		\$ 56,511													
Orchard Ridge	Exterior		MISC PROJECTS																
Orchard Ridge	Exterior	\$ 279,555	LANDSCAPING UPGRADE	Capital Renewal					\$ 279,555										
Orchard Ridge	Exterior	\$ 46,991	POND DREDGING	Deferred Maintenance				\$ 46,991											
Orchard Ridge	Exterior		Exterior Totals		\$ -	\$ 56,511	\$ -	\$ 46,991	\$ 279,555	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Orchard Ridge	Smith Theatre	\$ 160,593	FIRE SPRINKLER SYSTEM INSTALLATION	Plant Adaption			\$ 160,593												
Orchard Ridge	Smith Theatre	\$ 20,744	THEATER ACCESSIBILITY UPGRADES	Plant Adaption			\$ 20,744												
Orchard Ridge	Smith Theatre	\$ 132,802	RESTROOM RENOVATION	Plant Adaption			\$ 132,802												
Orchard Ridge	Smith Theatre	\$ 179,250	INTERIOR LIGHTING UPGRADE	Capital Renewal			\$ 179,250												
Orchard Ridge	Smith Theatre	\$ 65,308	HEAT EXCHANGER REPLACEMENT	Capital Renewal										\$ 65,308					
Orchard Ridge	Smith Theatre	\$ 84,062	REFINISH FLOORING	Capital Renewal			\$ 84,062												
Orchard Ridge	Smith Theatre	\$ 8,597	REFINISH WALLS	Capital Renewal			\$ 8,597												
Orchard Ridge	Smith Theatre	\$ 31,940	ELECTRICAL SYSTEM REPAIRS	Capital Renewal			\$ 31,940												
Orchard Ridge	Smith Theatre	\$ 114,928	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal			\$ 114,928												
Orchard Ridge	Smith Theatre	\$ 44,401	REFINISH CEILINGS	Capital Renewal			\$ 44,401												
Orchard Ridge	Smith Theatre		Smith Theatre Totals		\$ -	\$ -	\$ 777,317	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 65,308	\$ -	\$ -	\$ -	\$ -
Grand Total					\$ 3,146,291	\$ 13,352,802	\$ 16,071,681	\$ 8,440,038	\$ 7,465,989	\$ 3,188,537	\$ 1,763,703	\$ 1,971,733	\$ 200,000	\$ 358,884	\$ 825,953	\$ -	\$ 2,913,492	\$ -	\$ -

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Royal Oak	Building A	\$ 9,589	GLAZED BRICK VENEER REPAIR WORK	Capital Renewal						\$ 9,589									
Royal Oak	Building A	\$ 504,595	EXTERIOR METAL SANDWICH PANEL UPGRADES	Deferred Maintenance															\$ 504,595
Royal Oak	Building A	\$ 1,731,583	HVAC SYSTEM REPLACEMENT	Deferred Maintenance														\$ 1,731,583	
Royal Oak	Building A	\$ 266,075	REPLACE CARPETING	Capital Renewal			\$ 266,075												
Royal Oak	Building A	\$ 328,635	REPLACE PANEL WALLS	Deferred Maintenance			\$ 328,635												
Royal Oak	Building A	\$ 192,041	REFINISH CEILINGS	Capital Renewal			\$ 192,041												
Royal Oak	Building A	\$ 50,568	REPLACE INTERIOR DOORS	Deferred Maintenance			\$ 50,568												
Royal Oak	Building A	\$ 55,808	ELECTRICAL SYSTEM REPAIRS	Capital Renewal										\$ 55,808					
Royal Oak	Building A	\$ 6,951	REPLACE SPLIT DX SYSTEMS	Capital Renewal						\$ 6,951									
Royal Oak	Building A	\$ 135,242	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal										\$ 135,242					
Royal Oak	Building A	\$ 249,997	REFINISH FLOORING	Capital Renewal			\$ 249,997												
Royal Oak	Building A	\$ 48,912	REFINISH WALLS	Capital Renewal			\$ 48,912												
Royal Oak	Building A	\$ 90,775	REPLACE PRIMARY SERVICE TRANSFORMER	Capital Renewal							\$ 90,775								
Royal Oak	Building A	\$ 100,400	REPLACE 277/480 V SWITCHGEAR AND DISTRIBUTION PANEL ASSEMBLY	Capital Renewal							\$ 100,400								
Royal Oak	Building A	\$ 784,586	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal							\$ 784,586								
Royal Oak	Building A	\$ 612,988	WINDOW REPLACEMENT	Capital Renewal														\$ 612,988	
Royal Oak	Building A	\$ 120,886	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal										\$ 120,886					
Royal Oak	Building A	\$ 6,951	REPLACE SPLIT DX SYSTEMS	Capital Renewal						\$ 6,951									
Royal Oak	Building A	\$ 89,592	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal										\$ 89,592					
Royal Oak	Building A	\$ 18,080	REPLACE SPRINKLER HEADS	Capital Renewal						\$ 18,080									
Royal Oak	Building A	\$ 200,507	REFINISH CEILINGS	Capital Renewal							\$ 200,507								
Royal Oak	Building A		Building A Totals		\$ -	\$ -	\$ 1,136,228	\$ -	\$ -	\$ 16,539	\$ 1,201,299	\$ -	\$ -	\$ 401,528	\$ -	\$ -	\$ -	\$ 2,344,571	\$ 504,595
Royal Oak	Building B	\$ 8,346	GLAZED BRICK VENEER REPAIR WORK	Deferred Maintenance						\$ 8,346									
Royal Oak	Building B	\$ 439,185	EXTERIOR METAL SANDWICH PANEL SYSTEM UPGRADE	Deferred Maintenance															\$ 439,185
Royal Oak	Building B	\$ 383,496	GENERAL CARPETING UPGRADES	Deferred Maintenance				\$ 383,496											
Royal Oak	Building B	\$ 615,381	INTERIOR WALL REFINISHING AND REPLACEMENTS	Deferred Maintenance				\$ 615,381											
Royal Oak	Building B	\$ 325,586	ACOUSTICAL CEILING UPGRADES	Deferred Maintenance				\$ 325,586											
Royal Oak	Building B	\$ 155,413	SELECTIVE INTERIOR DOOR UPGRADES	Deferred Maintenance				\$ 155,413											
Royal Oak	Building B	\$ 1,016,721	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal							\$ 1,016,721								
Royal Oak	Building B	\$ 177,085	WINDOW REPLACEMENT	Capital Renewal														\$ 177,085	
Royal Oak	Building B	\$ 161,657	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal								\$ 161,657							
Royal Oak	Building B	\$ 27,802	REPLACE SPLIT DX SYSTEMS	Capital Renewal				\$ 27,802											
Royal Oak	Building B		Building B Totals		\$ -	\$ -	\$ -	\$ 1,507,678	\$ -	\$ 8,346	\$ 1,016,721	\$ -	\$ 161,657	\$ -	\$ -	\$ -	\$ -	\$ 177,085	\$ 439,185
Royal Oak	Building C	\$ 229,919	GLASS CURTAINWALL REFURBISHING	Capital Renewal						\$ 229,919									
Royal Oak	Building C	\$ 17,315	REPLACE SPRINKLER HEADS	Deferred Maintenance						\$ 17,315									
Royal Oak	Building C	\$ 192,143	REPLACE CARPETING	Capital Renewal						\$ 192,143									
Royal Oak	Building C	\$ 5,834	INTERIOR WALL REFINISHING	Capital Renewal						\$ 5,834									
Royal Oak	Building C	\$ 292,412	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal						\$ 292,412									
Royal Oak	Building C	\$ 85,801	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal								\$ 85,801							
Royal Oak	Building C	\$ 13,901	REPLACE SPLIT DX SYSTEMS	Capital Renewal						\$ 13,901									
Royal Oak	Building C	\$ 87,384	STANDARD CEILING FINISH UPGRADES	Capital Renewal						\$ 87,384									
Royal Oak	Building C	\$ 300,000	Elevator			\$ 300,000													
Royal Oak	Building C		Building C Totals		\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 838,908	\$ -	\$ -	\$ 85,801	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Royal Oak	Building D	\$ 8,536	INTERIOR DOOR HARDWARE AND SIGNAGE UPGRADES	Plant Adaption					\$ 8,536										
Royal Oak	Building D	\$ 172,512	INTERIOR LIGHTING UPGRADE	Deferred Maintenance												\$ 172,512			
Royal Oak	Building D	\$ 572,809	EXTERIOR METAL SANDWICH PANEL UPGRADES	Deferred Maintenance															\$ 572,809
Royal Oak	Building D	\$ 25,868	REPLACE SPRINKLER HEADS	Deferred Maintenance				\$ 25,868								\$ 25,868			
Royal Oak	Building D	\$ 1,646,209	HVAC SYSTEM REPLACEMENT	Deferred Maintenance														\$ 1,646,209	
Royal Oak	Building D	\$ 171,743	REFINISH FLOORING	Deferred Maintenance					\$ 171,743										
Royal Oak	Building D	\$ 566,750	STUDIO AREA GUT RENOVATIONS	Deferred Maintenance					\$ 566,750										
Royal Oak	Building D	\$ 238,763	REFINISH WALLS	Capital Renewal					\$ 238,763										
Royal Oak	Building D	\$ 203,646	REFINISH CEILINGS	Deferred Maintenance					\$ 203,646										
Royal Oak	Building D	\$ 72,951	RESTROOM RENOVATION	Capital Renewal					\$ 72,951										
Royal Oak	Building D	\$ 71,559	LOCKER ROOM RENOVATION	Capital Renewal					\$ 71,559										
Royal Oak	Building D	\$ 745,392	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal							\$ 745,392								
Royal Oak	Building D	\$ 773,046	WINDOW REPLACEMENT	Capital Renewal														\$ 773,046	
Royal Oak	Building D	\$ 128,183	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal									\$ 128,183						
Royal Oak	Building D	\$ 6,951	REPLACE SPLIT DX SYSTEMS	Capital Renewal						\$ 6,951									
Royal Oak	Building D	\$ 250,570	DRAIN PIPING REPLACEMENT	Capital Renewal								\$ 250,570							
Royal Oak	Building D		Building D Totals		\$ -	\$ -	\$ -	\$ 25,868	\$ 1,333,948	\$ 6,951	\$ 745,392	\$ 250,570	\$ 128,183	\$ -	\$ -	\$ 198,380	\$ -	\$ 2,419,255	\$ 572,809
Royal Oak	Building E	\$ 60,991	LIGHTING CONTROL SYSTEM RENEWAL	Deferred Maintenance			\$ 60,991												
Royal Oak	Building E	\$ 523,284	EXTERIOR METAL SANDWICH PANEL UPGRADES	Deferred Maintenance															\$ 523,284
Royal Oak	Building E	\$ 26,374	REPLACE SPRINKLER HEADS	Deferred Maintenance					\$ 26,374										
Royal Oak	Building E	\$ 2,335,994	HVAC SYSTEM REPLACEMENT	Deferred Maintenance			\$ 2,335,994												
Royal Oak	Building E	\$ 560,017	STUDIO AREA GUT RENOVATIONS	Deferred Maintenance			\$ 560,017												
Royal Oak	Building E	\$ 182,709	REFINISH CEILINGS	Capital Renewal					\$ 182,709										
Royal Oak	Building E	\$ 42,385	REPLACE INTERIOR DOORS	Capital Renewal					\$ 42,385										
Royal Oak	Building E	\$ 336,189	FIXED SEATING UPGRADE	Capital Renewal					\$ 336,189										
Royal Oak	Building E	\$ 917,053	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal								\$ 917,053							
Royal Oak	Building E	\$ 199,638	REPLACE PRIMARY SERVICE TRANSFORMERS	Capital Renewal								\$ 199,638							
Royal Oak	Building E	\$ 46,530	EXTERIOR DOOR REPLACEMENT	Capital Renewal				\$ 46,530											
Royal Oak	Building E	\$ 130,691	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal									\$ 130,691						
Royal Oak	Building E	\$ 234,624	GENERAL FLOORING UPGRADES	Capital Renewal									\$ 234,624						
Royal Oak	Building E	\$ 47,877	REFINISH WALLS	Capital Renewal									\$ 47,877						
Royal Oak	Building E	\$ 153,713	WATER SUPPLY PIPING REPLACEMENT	Capital Renewal									\$ 153,713						
Royal Oak	Building E	\$ 229,673	DRAIN PIPING REPLACEMENT	Capital Renewal									\$ 229,673						
Royal Oak	Building E	\$ 260,000	Boiler #1														\$ 260,000		
Royal Oak	Building E	\$ 260,000	Boiler #2														\$ 260,000		

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Royal Oak	Building E	\$ 260,000	Boiler #3														\$ 260,000		
Royal Oak	Building E	\$ 550,000	Chiller #1														\$ 550,000		
Royal Oak	Building E	\$ 550,000	Chiller #2														\$ 550,000		
Royal Oak	Building E		Building E Totals		\$ -	\$ -	\$ 2,957,001	\$ 46,530	\$ 587,658	\$ -	\$ -	\$ 1,116,691	\$ 796,578	\$ -	\$ -	\$ -	\$ 1,880,000	\$ -	\$ 523,284
Royal Oak	Grounds Building	\$ 7,484	FIRE ALARM SYSTEM INSTALLATION	Plant Adaption						\$ 7,484									
Royal Oak	Grounds Building	\$ 16,907	INTERIOR LIGHTING UPGRADE	Deferred Maintenance						\$ 16,907									
Royal Oak	Grounds Building	\$ 54,668	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Deferred Maintenance						\$ 54,668									
Royal Oak	Grounds Building	\$ 26,102	EXTERIOR DOOR REPLACEMENTS	Capital Renewal						\$ 26,102									
Royal Oak	Grounds Building	\$ 5,108	WINDOW REPLACEMENT	Deferred Maintenance						\$ 5,108									
Royal Oak	Grounds Building	\$ 1,539	OFFICE FLOORING UPGRADE	Deferred Maintenance						\$ 1,539									
Royal Oak	Grounds Building	\$ 7,431	INTERIOR WALL REFINISHING	Deferred Maintenance						\$ 7,431									
Royal Oak	Grounds Building	\$ 2,366	OFFICE AND GARAGE CEILING UPGRADE	Deferred Maintenance						\$ 2,366									
Royal Oak	Grounds Building	\$ 17,004	RESTROOM RENOVATION	Deferred Maintenance						\$ 17,004									
Royal Oak	Grounds Building	\$ 14,304	WATER SUPPLY PIPING REPLACEMENT	Deferred Maintenance						\$ 14,304									
Royal Oak	Grounds Building	\$ 21,414	DRAIN PIPING REPLACEMENT	Deferred Maintenance						\$ 21,414									
Royal Oak	Grounds Building	\$ 67,814	EXTERIOR FACADE REPLACEMENT	Capital Renewal						\$ 67,814									
Royal Oak	Grounds Building	\$ 2,826	OFFICE INTERIOR DOOR UPGRADES	Capital Renewal						\$ 2,826									
Royal Oak	Grounds Building		Grounds Building Totals		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 244,967	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Royal Oak	Mall	\$ 22,995	GLAZED BRICK VENEER REPAIR WORK	Deferred Maintenance								\$ 22,995							
Royal Oak	Mall	\$ 25,355	REPLACE SPRINKLER HEADS	Deferred Maintenance								\$ 25,355							
Royal Oak	Mall	\$ 331,177	REFINISH FLOORING	Capital Renewal								\$ 331,177							
Royal Oak	Mall	\$ 3,951	REFINISH WALLS	Capital Renewal								\$ 3,951							
Royal Oak	Mall	\$ 309,721	COMPREHENSIVE HYDRAULIC ELEVATOR MODERNIZATION - EAST	Deferred Maintenance								\$ 309,721							
Royal Oak	Mall	\$ 722,042	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal								\$ 722,042							
Royal Oak	Mall	\$ 125,642	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal								\$ 125,642							
Royal Oak	Mall	\$ 13,901	REPLACE SPLIT DX SYSTEMS	Capital Renewal								\$ 13,901							
Royal Oak	Mall	\$ 8,334	REFINISH CEILINGS	Capital Renewal								\$ 8,334							
Royal Oak	Mall	\$ 300,000	Elevator - West			\$ 300,000											\$ 300,000		
Royal Oak	Mall		Mall Totals		\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,563,118	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ -
Royal Oak	North Parking Structure	\$ 109,621	GUARDRAIL CABLING REPLACEMENTS	Plant Adaption													\$ 109,621		
Royal Oak	North Parking Structure	\$ 396,202	FIRE ALARM SYSTEM INSTALLATION	Plant Adaption							\$ 396,202								
Royal Oak	North Parking Structure	\$ 24,737	INSTALL EXIT SIGNS AND EMERGENCY LIGHTS	Plant Adaption							\$ 24,737								
Royal Oak	North Parking Structure	\$ 172,297	PARKING LIGHTING UPGRADE	Deferred Maintenance								\$ 172,297							
Royal Oak	North Parking Structure	\$ 6,229	LANDSCAPING UPKEEP	Capital Renewal							\$ 6,229								
Royal Oak	North Parking Structure	\$ 71,504	EXTERIOR METAL PANEL MAINTENANCE	Capital Renewal							\$ 71,504								
Royal Oak	North Parking Structure	\$ 300,000	Elevator			\$ 300,000													
Royal Oak	North Parking Structure		North Parking Structure Totals		\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 670,969	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 109,621	\$ -	\$ -
Royal Oak	Power House	\$ 23,422	RESTORE BRICK VENEER	Deferred Maintenance						\$ 23,422									
Royal Oak	Power House	\$ 77,989	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal								\$ 77,989							
Royal Oak	Power House	\$ 16,686	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal									\$ 16,686						
Royal Oak	Power House	\$ 171,889	PUMP REPLACEMENT	Capital Renewal									\$ 171,889						
Royal Oak	Power House	\$ 30,549	DRAIN PIPING REPLACEMENT	Capital Renewal									\$ 30,549						
Royal Oak	Power House		Power House Totals		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,422	\$ -	\$ 77,989	\$ 219,124	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Royal Oak	Exterior	\$ 145,053	LANDSCAPING REFURBISHING ALLOWANCE	Capital Renewal									\$ 145,053						
Royal Oak	Exterior		Emerging Needs/Emergency Repair		\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Royal Oak	Exterior		Exterior Totals		\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 295,053	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Royal Oak	South Parking Structure	\$ 444,528	FIRE ALARM SYSTEM INSTALLATION	Plant Adaption							\$ 444,528								
Royal Oak	South Parking Structure	\$ 24,737	INSTALL EXIT SIGNS AND EMERGENCY LIGHTS	Plant Adaption							\$ 24,737								
Royal Oak	South Parking Structure	\$ 94,856	PRECAST CONCRETE FINISH REPAIRS AND RECAULKING	Capital Renewal								\$ 94,856							
Royal Oak	South Parking Structure	\$ 205,021	PARKING LIGHTING UPGRADE	Capital Renewal									\$ 205,021						
Royal Oak	South Parking Structure	\$ 300,000	Elevator			\$ 300,000													
Royal Oak	South Parking Structure		South Parking Structure Totals		\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 469,265	\$ 94,856	\$ 205,021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
			Grand Total		\$ 150,000	\$ 1,350,000	\$ 4,243,229	\$ 1,730,077	\$ 2,071,606	\$ 1,289,133	\$ 4,253,646	\$ 3,253,224	\$ 1,891,418	\$ 551,528	\$ 150,000	\$ 348,380	\$ 2,439,621	\$ 5,090,911	\$ 2,189,873

Major Renovation / Maintenance Program

Oakland Community College

Campus	Asset Name	Grand Total	Title	Project Class	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	15 Years 2027 - 2031	20 Year 2032 - 2036	25 Year 2037 - 2041	30 Year 2042 - 2046	40 Years 2047 - 2052
Southfield	Building A	\$ 29,362	EXHAUST FAN REPLACEMENT	Deferred Maintenance													\$ 29,362		
Southfield	Building A	\$ 696,618	REFINISH FLOORING	Capital Renewal										\$ 696,618					
Southfield	Building A	\$ 171,266	REFINISH WALLS	Capital Renewal			\$ 171,266												
Southfield	Building A	\$ 1,024,384	UPGRADE ELECTRICAL DISTRIBUTION NETWORK	Capital Renewal							\$ 1,024,384								
Southfield	Building A	\$ 66,264	EXTERIOR SIDING RECAULKING	Capital Renewal						\$ 66,264									
Southfield	Building A	\$ 345,627	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal								\$ 345,627							
Southfield	Building A	\$ 145,952	COOLING TOWER REPLACEMENT	Capital Renewal						\$ 145,952									
Southfield	Building A	\$ 260,000	Boiler #1														\$ 260,000		
Southfield	Building A	\$ 260,000	Boiler #2														\$ 260,000		
Southfield	Building A	\$ 420,000	Chiller #1													\$ 420,000			
Southfield	Building A	\$ 420,000	Chiller #2														\$ 420,000		
Southfield	Building A	\$ 300,000	Elevator			\$ 300,000													
Southfield	Building A		Building A Totals		\$ -	\$ 300,000	\$ 171,266	\$ -	\$ -	\$ 212,216	\$ 1,024,384	\$ 345,627	\$ -	\$ 696,618	\$ -	\$ 420,000	\$ 969,362	\$ -	\$ -
Southfield	Building A - Addition	\$ 12,839	ELECTRICAL SYSTEM REPAIRS	Capital Renewal				\$ 12,839											
Southfield	Building A - Addition	\$ 78,304	HVAC CONTROL SYSTEM UPGRADE	Capital Renewal				\$ 78,304											
Southfield	Building A - Addition	\$ 136,266	STANDARD CARPETING UPGRADES	Capital Renewal			\$ 136,266												
Southfield	Building A - Addition	\$ 29,949	STANDARD INTERIOR WALL REFINISHING	Capital Renewal			\$ 29,949												
Southfield	Building A - Addition	\$ 12,861	EXTERIOR SIDING RECAULKING	Capital Renewal						\$ 12,861									
Southfield	Building A - Addition	\$ 14,666	EXTERIOR DOOR REPLACEMENT	Capital Renewal						\$ 14,666									
Southfield	Building A - Addition	\$ 46,250	FIRE ALARM SYSTEM REPLACEMENT	Capital Renewal								\$ 46,250							
Southfield	Building A - Addition	\$ 9,333	REPLACE SPRINKLER HEADS	Capital Renewal						\$ 9,333									
Southfield	Building A - Addition	\$ 384,454	COMPUTER ROOM AC UNIT REPLACEMENT	Capital Renewal							\$ 384,454								
Southfield	Building A - Addition		Building A - Addition Totals		\$ -	\$ -	\$ 166,215	\$ 91,143	\$ -	\$ 36,861	\$ 384,454	\$ 46,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Southfield	Building B	\$ 59,635	REFINISH WALLS	Capital Renewal									\$ 59,635						
Southfield	Building B	\$ 389,690	REFINISH FLOORING	Capital Renewal									\$ 389,690						
Southfield	Building B	\$ 300,000	Elevator							\$ 300,000									
Southfield	Building B		Building B Totals		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ 449,324	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Southfield	Roof	\$ 420,000	Chiller #3															\$ 420,000	
Southfield	Roof		Roof Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 420,000	\$ -
Southfield	Site Wide	\$ 58,851	LANDSCAPING REFURBISHING ALLOWANCE	Capital Renewal						\$ 58,851									
Southfield	Site Wide		Emerging Needs/Emergency Repair		\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Southfield	Site Wide		Site Wide Totals		\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 208,851	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Grand Total					\$ 150,000	\$ 450,000	\$ 487,481	\$ 241,143	\$ 150,000	\$ 757,928	\$ 1,558,838	\$ 541,877	\$ 599,324	\$ 846,618	\$ 150,000	\$ 570,000	\$ 1,119,362	\$ 570,000	\$ 150,000

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