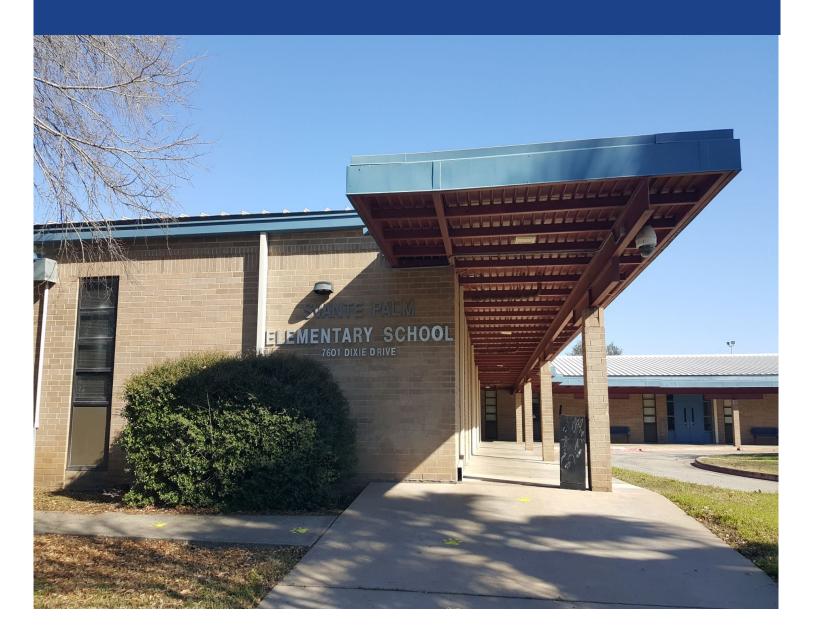


# FACILITY CONDITION ASSESSMENT

Palm ES | February 2022





## **Executive Summary**

Palm ES is located at 7601 Dixie Dr in Austin, Texas. The oldest building is 33 years old (at time of 2020 assessment). It comprises 79,082 gross square feet.

The findings contained within this report are the result of an assessment of building systems and the conditions found on the site at the time of the visit. The assessment was performed by building professionals experienced in disciplines including architecture, mechanical, plumbing and electrical. The total current deficiencies for this site, in 2020 construction cost dollars, are estimated at \$7,712,718. A ten-year need was developed to provide an understanding of the current need as well as the projected needs in the near future. For Palm ES the ten-year need is \$17,025,513.

For master planning purposes, the total current deficiencies and the first five years of projected life cycle needs were combined to calculate a Facility Condition Assessment (FCA) score. A 5-year FCA was calculated by dividing the 5-year need by the total replacement cost. Costs associated with new construction are not included in the FCA calculation. The Palm ES facility has a 5-year FCA score of 56.88%.

## **Summary of Findings**

The table below summarizes the condition findings at Palm ES

Table 1: Facility Condition by Building

Number	Building Name	Current Deficiencies	5-Year Life Cycle Cost	Yrs 6-10 Life Cycle Cost	Total 5 Yr Need (Yr 1-5 + Current Defs)	Total 10 Yr Need (Yr 1-10 + Current Defs)	Replacement Cost	5-Year FCA
Exterior Sit	te							
	Exterior Site	\$1,396,963	\$181,220	\$364,163	\$1,578,183	\$1,942,346	\$0	
Permanent	t Building(s)		-		-			
171A	Main building includes Administration Offices, Classrooms, Cafeteria, & Gym.	\$6,168,601	\$3,131,406	\$5,222,293	\$9,300,007	\$14,522,300	\$22,369,600	58.43%
171B	Stand-Alone Classroom Building	\$147,155	\$172,378	\$241,335	\$319,533	\$560,868	\$3,600,140	91.12%
	Sub Total for Permanent Building(s):	\$6,315,755	\$3,303,784	\$5,463,628	\$9,619,539	\$15,083,167	\$25,969,740	
	Total for Site:	\$7,712,718	\$3,485,004	\$5,827,791	\$11,197,722	\$17,025,513	\$25,969,740	56.88%



## Approach and Methodology

A facility condition assessment evaluates each building's overall condition. Two components of the facility condition assessment are combined to total the cost for facility need. The two components of the facility condition assessment are current deficiencies and life cycle forecast.

**Current Deficiencies:** Deficiencies are items in need of repair or replacement as a result of being broken, obsolete, or beyond useful life. The existing deficiencies that currently require correction are identified and assigned a priority. An example of a current deficiency might include a broken lighting fixture or an inoperable roof top air conditioning unit.

Life Cycle Forecast: Life cycle analysis evaluates the ages of a building's systems to forecast system replacement as they reach the end of serviceable life. An example of a life cycle system replacement is a roof with a 20-year life that has been in place for 15 years and may require replacement in five years.

All members of the survey team recorded existing conditions, identified problems and deficiencies, and documented corrective action and quantities. The team took digital photos at each site to better identify significant deficiencies.

#### **Facility Deficiency Priority Levels**

Deficiencies were ranked according to five priority levels, with Priority 1 items being the most critical to address:

**Priority 1** – **Mission Critical Concerns:** Deficiencies or conditions that may directly affect the site's ability to remain open or deliver the educational curriculum. These deficiencies typically relate to building safety, code compliance, severely damaged or failing building components, and other items that require near-term correction. An example of a Priority 1 deficiency is a fire alarm system replacement.

**Priority 2 - Indirect Impact to Educational Mission:** Items that may progress to a Priority 1 item if not addressed in the near term. Examples of Priority 2 deficiencies include inadequate roofing that could cause deterioration of integral building systems, and conditions affecting building envelopes, such as roof and window replacements.

**Priority 3 - Short-Term Conditions:** Deficiencies that are necessary to the site's mission but may not require immediate attention. These items should be considered necessary improvements required to maximize facility efficiency and usefulness. Examples of Priority 3 items include site improvements and plumbing deficiencies.

**Priority 4 - Long-Term Requirements:** Items or systems that may be considered improvements to the instructional environment. The improvements may be aesthetic or provide greater functionality. Examples include cabinets, finishes, paving, removal of abandoned equipment, and educational accommodations associated with special programs.

**Priority 5 - Enhancements:** Deficiencies aesthetic in nature or considered enhancements. Typical deficiencies in this priority include repainting, replacing carpet, improved signage, or other improvements to the facility environment.



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#### The following table summarizes this site's current deficiencies by building system and priority.

Table 2: System by Priority (Site & Permanent Buildings)

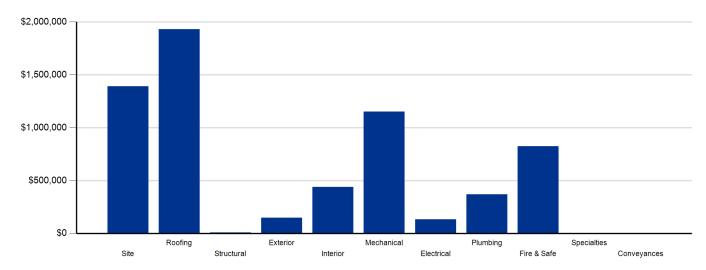
			Priority				
System	1	2	3	4	5	Total	% of Total
Site	\$0	\$0	\$0	\$0	\$1,390,508	\$1,390,508	18.03 %
Roofing	\$1,931,447	\$0	\$0	\$0	\$0	\$1,931,447	25.04 %
Structural	\$6,455	\$0	\$0	\$0	\$0	\$6,455	0.08 %
Exterior	\$0	\$91,064	\$0	\$0	\$56,602	\$147,666	1.91 %
Interior	\$0	\$0	\$37,512	\$400,375	\$0	\$437,887	5.68 %
Mechanical	\$0	\$1,027,358	\$49,910	\$0	\$73,786	\$1,151,054	14.92 %
Electrical	\$0	\$119,174	\$11,799	\$0	\$0	\$130,973	1.70 %
Plumbing	\$0	\$0	\$226,646	\$140,824	\$0	\$367,469	4.76 %
Fire and Life Safety	\$823,861	\$0	\$0	\$0	\$0	\$823,861	10.68 %
Conveyances	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Specialties	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Crawlspace	\$0	\$0	\$0	\$0	\$1,325,398	\$1,325,398	17.18 %
Total:	\$2,761,762	\$1,237,595	\$325,868	\$541,198	\$2,846,294	\$7,712,718	

The building systems at the site with the most need include:

Roofing	-	\$1,931,447
Site	-	\$1,390,508
Mechanical	-	\$1,151,054



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The chart below represents the building systems and associated deficiency costs.

Figure 1: System Deficiencies



## Life Cycle Capital Renewal Forecast

During the facility condition assessment, assessors inspected all major building systems. If an assessor identified a need for immediate replacement, a deficiency was created with the item's repair costs. The identified deficiency contributes to the facility's total current repair costs.

However, capital planning scenarios span multiple years, as opposed to being constrained to immediate repairs. Construction projects may begin several years after the initial facility condition assessment. Therefore, in addition to the current year repair costs, it is necessary to forecast the facility's future costs using a ten-year life cycle renewal forecast model.

Life cycle renewal is the projection of future building system costs based upon each individual system's expected serviceable life. Building systems and components age over time, eventually break down, reach the end of their useful lives, and may require replacement. While an item may be in good condition now, it might reach the end of its life before a planned construction project occurs.

The following tables show current deficiencies and the subsequent ten-year life cycle capital renewal projections. The projections outline costs for major building systems in which a component is expected to reach the end of its useful life and require capital funding for replacement.

		Life Cycl	e Capital Renewal Pro	ojections		
System	Year 1 2023	Year 2 2024	Year 3 2025	Year 4 2026	Year 5 2027	Total 1-5
Site	\$0	\$0	\$0	\$130,973	\$50,247	\$181,220
Roofing	\$0	\$0	\$0	\$0	\$0	\$0
Exterior	\$0	\$0	\$180,406	\$0	\$0	\$180,406
Interior	\$0	\$0	\$0	\$43,121	\$715,695	\$758,816
Mechanical	\$0	\$0	\$14,381	\$1,297,514	\$571,489	\$1,883,384
Electrical	\$0	\$0	\$0	\$1,803	\$80,903	\$82,706
Plumbing	\$0	\$0	\$2,684	\$72,979	\$322,809	\$398,472
Fire and Life Safety	\$0	\$0	\$0	\$0	\$0	\$0
Conveyances	\$0	\$0	\$0	\$0	\$0	\$0
Specialties	\$0	\$0	\$0	\$0	\$0	\$0
Crawlspace	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$197,471	\$1,546,390	\$1,741,143	\$3,485,004

Table 3a: Capital Renewal Forecast (Yrs 1-5)



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Table 3b: Capital Renewal Forecast (Yrs 6-10)

			Life Cycle Capital Renewal Projections					
System	Total 1-5	Year 6 2028	Year 7 2029	Year 8 2030	Year 9 2031	Year 10 2032	Total 6-10	Total 1-10
Site	\$181,220	\$67,044	\$0	\$227,731	\$0	\$0	\$294,775	\$475,995
Roofing	\$0	\$0	\$0	\$0	\$0	\$22,831	\$22,831	\$22,831
Exterior	\$180,406	\$0	\$0	\$0	\$0	\$43,082	\$43,082	\$223,488
Interior	\$758,816	\$279,464	\$0	\$44,200	\$501,343	\$346,040	\$1,171,047	\$1,929,863
Mechanical	\$1,883,384	\$0	\$0	\$1,299	\$0	\$95,502	\$96,801	\$1,980,185
Electrical	\$82,706	\$0	\$0	\$231,236	\$0	\$1,253,351	\$1,484,587	\$1,567,293
Plumbing	\$398,472	\$0	\$0	\$0	\$0	\$2,405,777	\$2,405,777	\$2,804,249
Fire and Life Safety	\$0	\$132,433	\$0	\$182,020	\$0	\$0	\$314,453	\$314,453
Conveyances	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Specialties	\$0	\$0	\$0	\$360,877	\$0	\$0	\$360,877	\$360,877
Crawlspace	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$3,485,004	\$478,941	\$0	\$1,047,363	\$501,343	\$4,166,583	\$6,194,230	\$9,679,234

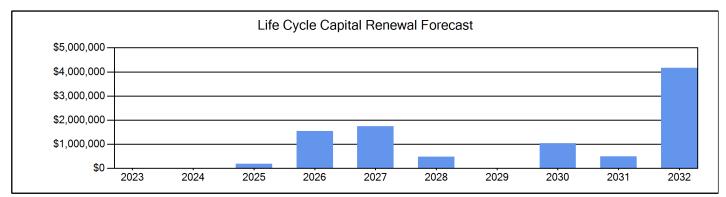


Figure 2: Ten Year Capital Renewal Forecast



The Facility Condition Assessment Score (FCAS) is used throughout the facility condition assessment industry as a general indicator of a building's health. The FCAS is used to benchmark the relative condition of a group of sites. The FCAS is derived by dividing the total repair cost, site-related repairs, by the total replacement cost and subtracting it from 100. A facility with a lower FCAS percentage has more need, or higher priority, than a facility with a lower FCAS. It should be noted that costs in the New Construction category are not included in the FCAS calculation.

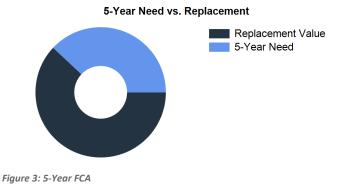
FCAS = 100 - (Total Repair Cost/ Replacement Cost)

For master planning purposes, the total current deficiencies and the first five years of projected life cycle needs were combined. This provides an understanding of the current needs of a facility as well as the projected needs in the near future. A 5-year FCAS was calculated by dividing the 5-year need by the total replacement cost. Costs associated with new construction are not included in the FCAS calculation.



Financial modeling has shown that over a 30-year period, it is more cost effective to replace than repair sites with a FCAS of 35 percent or greater. This is due to efficiency gains with facilities that are more modern and the value of the building at the end of the analysis period. It is important to note that the FCAS at which a facility should be considered for replacement is typically debated and adjusted based on property owners and facility managers approach to facility management. Of course, FCAS is not the only factor used to identify buildings that need renovation, replacement, or even closure. Historical significance, enrollment trends, community sentiment, and the availability of capital are additional factors that are analyzed when making campus facility decisions.

The replacement value represents the estimated cost of replacing the current building with another building of like size, based on today's estimated cost of construction in the Austin area. The estimated replacement cost for this facility is \$25,969,740. For planning purposes, the total 5-year need at the Palm ES is \$11,197,722 (Life Cycle Years 1-5 plus the FCA deficiency cost). The Palm ES facility has a 5-year FCA of 56.88%.





## Palm ES - Deficiency Summary

## **Site Level Deficiencies**

Site							
Deficiency		Category	Qty	UoM	Priority	Repair Cost	ID
PROGRAM DEFICIE	NCIES	ADA Compliance	499,590	EACH	5	\$644,952	1979
Note:	Site/Exterior Improvements Estimated Construction Cost for Site Plan Area C \$ 15,599.88 Estimated Construction Cost for Site Plan Area D \$ 8,645.98 Estimated Construction Cost Subtotal for Site/Exterior Improv Interior Improvements Estimated Construction Cost for Floor Plan Area 4 (Building A Estimated Construction Cost for Floor Plan Area 5 (Building A Estimated Construction Cost for Floor Plan Area 6 (Building A Estimated Construction Cost for Floor Plan Area 7 (Building B Estimated Construction Cost for Floor Plan Area 8 (Building A Estimated Construction Cost for Floor Plan Area 8 (Building A Estimated Construction Cost for Floor Plan Area 8 (Building A Estimated Construction Cost for Floor Plan Area 9 (Building A Estimated Construction Cost for Floor Plan Area 9 (Building A Estimated Construction Cost Subtotal for Interior Improvemen Total Estimated Construction Cost Subtotal for Program Defici	ements Excluding Division 1 \$ 2 ) \$ 17,575.06 ) \$ 85,331.42 ) (x3 locations) \$ 262,961.60 ) \$ 30,625.23 ) \$ 5,864.10 ) \$ 12,600.44 A) \$ 60,386.27 ts Excluding Division 1 \$ 475,34	4.11				
Location:	AISD ADA REPORT						
PUBLIC DEFICIENCI	ES	ADA Compliance	230,911	EACH	5	\$396,470	1978
	Site/Exterior Improvements Estimated Construction Cost for Site Plan Area A \$20,123.23 Estimated Construction Cost for Site Plan Area B \$17,468.85 Estimated Construction Cost Subtotal for Site/Exterior Improv Interior Improvements Estimated Construction Cost for Floor Plan Area 1 (Building A Estimated Construction Cost for Floor Plan Area 2 (Building A Estimated Construction Cost for Floor Plan Area 3 (Building A Estimated Construction Cost for Floor Plan Area 3 (Building A Estimated Construction Cost Subtotal for Interior Improvemen Total Estimated Construction Cost Subtotal for Public Deficier	; ements Excluding Division 1 \$ 3 ) \$ 7,128.36 ) \$ 117,209.60 ) \$ 68,981.14 its Excluding Division 1 \$ 193,31					
Location:	AISD ADA REPORT						
TAS ACCESSIBILITY	DEFICIENCIES	ADA Compliance	203,314	EACH	5	\$349,086	1980
Note:	Interior Improvements Estimated Construction Cost for Floor Plan Area 11 (Building Estimated Construction Cost for Floor Plan Area 12 (Building Estimated Construction Cost for Floor Plan Area 13 (Building Estimated Construction Cost for Floor Plan Area 14 (Building Estimated Construction Cost for Floor Plan Area 15 (Building Estimated Construction Cost Subtotal for TAS Improvements Total Estimated Construction Cost Subtotal for TAS Deficience	A) \$ 31,973.45 A) \$ 59,951.40 B) \$ 7,929.96 A) \$ 43,508.04 Excluding Division 1 \$ 203,314.2	24				
Location:	AISD ADA REPORT						
		Sub Total for System	3	items		\$1,390,508	
Structural							
Deficiency		Category	Qty	UoM	Priority	Repair Cost	ID
Structural Study Reco		Deferred Maintenance		Job	1	\$6,455	6590
Note:	Structural study to detail scope of work based on the 2017 cra						
		Sub Total for System	1	items		\$6,455	
	Sub To	otal for School and Site Level	4	items		\$1,396,963	

# Building: 171A - Main building includes Administration Offices, Classrooms, Cafeteria, & Gym.

### Roofina

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
AISD ROOFING P3	Capital Renewal	1,927,065	EACH	1	\$1,927,023	1986
AISD ROOFING P4	Capital Renewal	4,084	EACH	1	\$4,084	1988
AISD ROOFING P5	Capital Renewal	340	EACH	1	\$340	1990
	Sub Total for System	3	items		\$1,931,447	
Exterior						
Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Aluminum Storefront Exterior Door Replacement	Capital Renewal	8	Door	2	\$31,752	2000
Metal Exterior Door Replacement	Capital Renewal	16	Door	2	\$59,312	1999



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#### Exterior

Exterior						
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
Exterior Cleaning		Deferred Maintenance	14,615 SF Wall	5	\$56,602	2604
		Sub Total for System	3 item	S	\$147,666	
Interior						
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
Interior Door Replace	ement	Capital Renewal	20 Door	3	\$37,512	933
Note:	12 hallway doors need repait, 2 in kitchen and 6 in various clas	ssrooms				
Location	: Throughout building					
Acoustical Ceiling Ti	e Replacement	Capital Renewal	20,435 SF	4	\$69,004	931
Note:	30% of tile building wide needs to be replaced.					
Location	: Building wide					
Acoustical Ceiling Ti	e Replacement	Capital Renewal	67,437 SF	4	\$227,718	2002
Interior Fiberglass Pa	anels Repair or Replacement	Capital Renewal	13,624 SF Wall	4	\$103,653	2003
		Sub Total for System	4 item	S	\$437,887	
Mechanical						
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
	omponent Replacement	Capital Renewal	4 Ea.	2	\$455,426	974
Note:	Existing air conditioning unit can not maintain the room temper one (1) in each room.	•			. ,	
Location	Rooms 142/143/Library					
Ductwork Replaceme	ent (SF Basis)	Capital Renewal	68,118 SF	2	\$538,980	975
Note:	All ducwork and associated registers, grilles, dampers is consi replaced.	idered original to the building co	nstruction and b	eyond usefu	I life and needs	to be
Location	Building wide					
Circulation Pump Re	placement	Capital Renewal	1 Ea.	3	\$14,381	973
Note:	Pump is broken and beyond useful life. Needs to be replaced.					
Location	Mechanical Room					
Duct Damper Replac	rement	Deferred Maintenance	60 Ea.	3	\$8,864	978
Note:	All Dampers are considered original to the building construction	n and beyond useful life and nee	eds to be replace	ed.		
Location	Building wide					
Make Up Air Equipm	ent Replacement	Capital Renewal	3 Ea.	3	\$26,665	972
Note:	Dedicated Outside Air Unit (DOAU) split system DX unit. Conc refrigerant and is obsolete.	densing unit outside and air hand	dling unit above	ceiling. Equ	ipment uses R-2	22
Location	Above ceiling					
Duct Grill Replaceme	ent	Deferred Maintenance	240 Ea.	5	\$23,733	977
Note:	All grilles are considered original to the building construction ar	nd beyond useful life and needs	to be replaced.			
Location	: Building Wide					
Duct Register Replace	cement	Deferred Maintenance	120 Ea.	5	\$50,053	976
Note: Location	All registers are considered original to the building construction : Building Wide	and beyond useful life and nee	ds to be replace	d.		
		Sub Total for System	7 item	S	\$1,118,102	
Electrical						
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
Distribution Panel Re	placement	Capital Renewal	1 Ea.	2	\$16,905	1993
Electrical Transforme	•	Capital Renewal	1 Ea.	2	\$9,908	941
Note:	Age		. 24.	-	\$0,000	
	: Electrical Room 150					
Electrical Transforme		Capital Renewal	1 Ea.	2	\$5,519	942
Note:	Age	Capital Nonowal	, La.	2	ψ0,013	074
NULE.						

Location: Electrica Room 120



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## Electrical

Deficiency	Category	Qty UoM	Priority	Repair Cost	ID
anelboard Replacement	Capital Renewal	2 Ea.	2	\$10,999	94
Note: Corroded PPB2 and PPB					
Location: Room 113					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$5,500	94
Note: Age					
Location: Stage					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$5,500	94
Note: Age/DPPB3					
Location: Storage room					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$2,782	94
Note: Age/PPB5					
Location: Storage Room					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$5,500	94
Note: Age/PPB4	·				
Location: Storage Room					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$2,782	94
Note: Age/PPC				• , -	
Location: Electrical Room 120					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$5,500	94
Note: Age/ppa1	Capital Holional	. 20.	-	\$0,000	Ũ
Location: Electrical room 150					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$2,782	95
Note: Age/PPA2	Capital Kellewal	T Ea.	2	ψ2,702	00
Location: Electrial Room 150					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$9,372	95
Note: Age/DPPB2	Capital Reliewal	I La.	2	φ <del>9</del> ,372	9.
Location: Cafe storage					
anelboard Replacement	Capital Ronowal	1 Ea.	2	\$6,688	95
-	Capital Renewal	I Ea.	2	\$0,088	95
Note: Age/DPPA2					
Location: Electrical room 150				<b>\$0.070</b>	~
anelboard Replacement	Capital Renewal	1 Ea.	2	\$9,372	9:
Note: Age/LPA					
Location: Electrical Room 150					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$6,688	95
Note: Age/DPPA1					
Location: Electrial Room 150					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$6,688	95
Note: Age/LPC					
Location: Electical Room 120					
anelboard Replacement	Capital Renewal	1 Ea.	2	\$6,688	95
Note: Age/DPPC					
Location: Electrical Room 120					
I.I.D. Lighting Replacement	Capital Renewal	20 Ea.	3	\$11,799	96
Note: age					
Location: Gym					
	Sub Total for System	18 items		\$130,973	
Plumbing					
Deficiency	Category	Qty UoM	Priority	Repair Cost	10
Bas Water Heater Replacement	Capital Renewal	1 Ea.	3	\$6,384	
-		i Ea.	3	<b>\$0,384</b>	96
Note: Unit is beyond useful life and needs to be replace	eu.				
Location: Mechanical Room		46 5	6	<b>AO I T T T</b>	
oilet Replacement	Capital Renewal	43 Ea.	3	\$217,554	96

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## Plumbing

l'iumbing						
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
Urinal Replacement		Capital Renewal	2 Ea.	3	\$2,708	970
Note:	All plumbing fixtures are considered original to the building	construction and beyond useful life	and needs to be	replaced.		
Location	: Gym Restroom 164					
Custodial Mop Or Se	ervice Sink Replacement	Capital Renewal	6 Ea.	4	\$4,775	968
Note:	All plumbing fixtures are considered original to the building	construction and beyond useful life	and needs to be	replaced.		
Location	: Janitors closet					
Non-Refrigerated Dr	inking Fountain Replacement	Capital Renewal	6 Ea.	4	\$14,303	971
Note:	All plumbing fixtures are considered original to the building	construction and beyond useful life	and needs to be	replaced.		
Location	: Hallways					
Replace classroom I	avatory	Capital Renewal	39 Ea.	4	\$100,015	966
Note:	All plumbing fixtures are considered original to the builing replaced.	construction date and Unit is beyond	l useful life and be	eyond usefu	Il life and needs	to be
Location	: Throughout the classrooms					
Restroom Lavatories	Plumbing Fixtures Replacement	Capital Renewal	8 Ea.	4	\$21,730	967
Note:	All plumbing fixtures are considered original to the building	construction and beyond useful life	and needs to be	replaced.		
Location	: Throughout the building					
		Sub Total for System	7 items		\$367,469	
Fire and Life	Safety					
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
Fire Sprinkler Syster	n Replacement (SF Basis)	Capital Renewal	68,118 SF	1	\$709,658	979
Note:	Missing					
Location	: Building Wide					
		Sub Total for System	1 items		\$709,658	
Crawlspace						
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
	FICIENCIES - Estimate and Info by AISD	Deferred	154,103 Ea.	5	\$181,048	6591
		Maintenance		-	••••	
Note:	SOIL/DRAINAGE BELOW BUILDING - improve drainage	- 1 LS				
CRAWL SPACE DE	FICIENCIES - Estimate and Info by AISD	Deferred Maintenance	171,485 Ea.	5	\$201,469	6592
Note:	CRAWL SPACE ACCESS/VENTILATION - improve ventil	ation - 30800 SF				
CRAWL SPACE DE	FICIENCIES - Estimate and Info by AISD	Deferred Maintenance	139,192 Ea.	5	\$163,530	6593
Note:	CRAWL SPACE ACCESS/VENTILATION - update door h	atches - 1 IS				
	FICIENCIES - Estimate and Info by AISD	Deferred Maintenance	23,633 Ea.	5	\$27,765	6594
Note:	STANDARD FOUNDATIONS - Repair honeycombing and	forming - 850 LF				
CRAWL SPACE DE	FICIENCIES - Estimate and Info by AISD	Deferred Maintenance	125,273 Ea.	5	\$147,177	6595
Note:	CRAWL SPACE, EXPOSED PIPES - Repair water leaks,	cracked pipes, rusted hanger and pi	pe insulation - 1 l	S		
CRAWL SPACE DE	FICIENCIES - Estimate and Info by AISD	Deferred Maintenance	342,970 Ea.	5	\$402,939	6596
Note:	CRAWL SPACE, SPRAY FIREPROOFING - update firepr	oofing - 30800 SF				
	FICIENCIES - Estimate and Info by AISD	Deferred Maintenance	171,485 Ea.	5	\$201,469	6597
Note:	CRAWL SPACE, INSULATION - update insulation - 30800					
0 I T. (.) (		Sub Total for System	7 items		\$1,325,398	
	ing 171A - Main building includes Administration Offices		50 items		\$6,168,601	
•	71B - Stand-Alone Classroom Bu	liding				
Mechanical			0	<b>D</b> · · ·		15
		Category	Qty UoM	Priority	Repair Cost	ID
•	omponent Replacement	Capital Renewal	1 Ea.	2	\$24,044	2005
Heat Pump HVAC C	omponent Replacement	Capital Renewal	1 Ea.	2	\$8,908	2006

Sub Total for System

2 items

\$32,952



\$7,712,718

Austin ISD - Palm ES

#### Fire and Life Safety

Deficiency	Category	Qty UoM	Priority	Repair Cost	ID
Fire Sprinkler System Replacement (SF Basis)	Capital Renewal	10,962 SF	1	\$114,203	927
Note: Missing					
Location: Building Wide					
	Sub Total for System	1 items		\$114,203	
Sub Total for Building 171	B - Stand-Alone Classroom Building	3 items		\$147,155	

**Total for Campus** 

57 items



## Palm ES - Life Cycle Summary Yrs 1-10

## Site Level Life Cycle Items

#### Site

		Sub Total for Building -	7	items	\$545,381	
		Sub Total for System	1	items	\$46,557	
Parking Lot Lighting	Pole Lighting		8	Ea.	\$46,557	8
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Electrical						
		Sub Total for System	1	items	\$22,831	
Canopy Roofing	Steel panels		450	SF	\$22,831	10
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Roofing						
		Sub Total for System	5	items	\$475,993	
Pedestrian Pavement	Sidewalks - Concrete		1,600	SF	\$18,124	8
Parking Lot Pavement	Concrete		85	CAR	\$209,607	8
Playfield Areas	ES Playgrounds		3	Ea.	\$67,044	6
Roadway Pavement	Concrete Driveways		4,025	SF	\$50,247	5
Fences and Gates	Fencing - Chain Link (4 Ft)		2,775	LF	\$130,973	4
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life

#### Building: 171A - Main building includes Administration Offices, Classrooms, Cafeteria, & Gym.

Exterior

Uniformat Description	LC Type Description			UoM	· · ·	Remaining Life
Exterior Operating Windows	Aluminum - Windows per SF		1,809		\$180,406	3
		Sub Total for System	1	items	\$180,406	
Interior						
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Carpeting	Carpet		3,406	SF	\$43,121	4
Acoustical Suspended Ceilings	Ceilings - Acoustical Grid System		67,437	SF	\$280,824	5
Wall Painting and Coating	Painting/Staining (Bldg SF)		47,683	SF	\$213,664	5
Interior Door Supplementary Components	Door Hardware		149	Door	\$221,207	5
Interior Swinging Doors	Wooden Door		149	Door	\$279,464	6
Compartments and Cubicles	Toilet Partitions		4	Stall	\$8,066	8
Resilient Flooring	Vinyl Composition Tile Flooring		61,306	SF	\$501,343	9
Acoustical Suspended Ceilings	Ceilings - Acoustical Tiles		67,437	SF	\$227,718	10
Wall Coverings	FRP Wall Finish		13,624	SF Wall	\$103,653	10
Wood Flooring	Wood Flooring - All Types		681	SF	\$14,669	10
		Sub Total for System	10	items	\$1,893,728	
Mechanical						
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Facility Hydronic Distribution	Pump- 25HP (Ea.)		1	Ea.	\$14,381	3
Decentralized Cooling	Heat Pump (10 Ton)		51	Ea.	\$1,226,253	4
Note	: Water Source					
Heating System Supplementary Components	Controls - Electronic (Bldg.SF)		68,118	SF	\$105,402	5
Facility Hydronic Distribution	2-Pipe System (Cold)		68,118	SF	\$121,806	5
Facility Hydronic Distribution	2-Pipe Water System (Hot)		68,118	SF	\$289,776	5
Facility Hydronic Distribution	Pump - 5HP		1	Ea.	\$6,850	5
Exhaust Air	Kitchen Exhaust Hoods		2	Ea.	\$22,383	5
Decentralized Heating Equipment	Unit Heater Electric (5 KW)		1	Ea.	\$1,299	8
Facility Hydronic Distribution	Pump - 5HP		1	Ea.	\$6,850	10
Facility Hydronic Distribution	Pump- 25HP (Ea.)		1	Ea.	\$14,381	10
Exhaust Air	Roof Exhaust Fan - Large		1	Ea.	\$8,036	10
		Sub Total for System	11	items	\$1,817,419	
Electrical						
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life



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#### Electrical

	A - Main building includes Administration Offices, Cla			items	\$8,720,136	
	······································	Sub Total for System		items	\$360,877	-
Casework	Fixed Cabinetry			Room	\$360,877	8
Uniformat Description	LC Type Description		Qtv	UoM	Repair Cost	Remaining Life
Specialties			5	Romo	Ψ27 1,01J	
out of the office offic	Cooking Audin Cycloni	Sub Total for System		items	\$271,815	0
Security System Component	Security Alarm System		68,118		\$156,789	8
Fire Detection and Alarm	Fire Alarm Panel		,	Ea.	\$6,868	6
Fire Detection and Alarm	Fire Alarm		68.118		\$108,159	6
Fire and Life Safety Uniformat Description	LC Type Description		Otv	UoM	Repair Cost	Remaining Life
		Sub Total for System	6	items	\$2,705,323	
Plumbing Fixtures	Non-Refrigerated Drinking Fountain			Ea.	\$14,303	10
Domestic Water Equipment	Gas Piping System (BldgSF)		68,118		\$2,362,010	10
Domestic Water Equipment	Water Heater - Gas - 100 Gallon			Ea.	\$6,384	10
Sanitary Sewerage Piping	Sanitary Sewer Piping		68,118		\$75,627	5
Domestic Water Piping	Domestic Water Piping System (Bldg.SF)		68,118		\$244,798	5
Plumbing Fixtures	Refrigerated Drinking Fountain			Ea.	\$2,202	4
Uniformat Description	LC Type Description			UoM	•	Remaining Lif
Plumbing						
		Sub Total for System	12	items	\$1,490,569	
Lighting Fixtures	Light Fixtures (Bldg SF)		68,118	SF	\$1,249,185	10
Distributed Systems	Public Address System Head End Unit		1	Ea.	\$7,307	8
Audio-Video Systems	PA Communications No Head Unit (Bldg SF)		68,118	SF	\$48,219	8
Power Distribution	Panelboard - 277/480 225A		1	Ea.	\$9,372	8
Power Distribution	Panelboard - 120/208 100A		1	Ea.	\$2,782	8
Power Distribution	Panelboard - 120/208 225A		1	Ea.	\$5,500	8
Power Distribution	Distribution Panel (1600 Amps)		1	Ea.	\$25,176	8
Power Distribution	Distribution Panel (1600 Amps)		1	Ea.	\$25,176	8
Power Distribution	Distribution Panels (400 Amps)		1	Ea.	\$16,905	8
Electrical Service	Transformer (225 KVA)			Ea.	\$18,241	8
Power Distribution	Power Wiring		68,118	SF	\$80,903	5

### Building: 171B - Stand-Alone Classroom Building

#### Exterior

Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Exterior Operating Windows		Aluminum - Windows per SF		432	SF	\$43,082	10
			Sub Total for System	1	items	\$43,082	
Interior							
Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Acoustical Suspended Ceilings		Ceilings - Acoustical Tiles		10,633	SF	\$35,905	8
Suspended Plaster and		Painted ceilings		110	SF	\$229	8
			Sub Total for System	2	items	\$36,134	
Mechanical							
Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Decentralized Cooling		Heat Pump (3 Ton)		8	Ea.	\$71,261	4
	Note:	Water Source					
Heating System Supplementary Components		Controls - Electronic (Bldg.SF)		10,962	SF	\$16,962	5
Facility Hydronic Distribution		Pump - 5HP		1	Ea.	\$6,850	5
Exhaust Air		Interior Ceiling Exhaust Fan		3	Ea.	\$1,460	5
Facility Hydronic Distribution		2-Pipe System (Cold)		10,962	SF	\$19,602	10
Facility Hydronic Distribution		2-Pipe Water System (Hot)		10,962	SF	\$46,633	10
			Sub Total for System	6	items	\$162,768	
Electrical							
Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Electrical Service		Transformer (225 KVA)		1	Ea.	\$18,241	8
Audio-Video Systems		PA Communications No Head Unit (Bldg SF)		10,962	SF	\$7,760	8



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#### Electrical

Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Lighting Fixtures	Canopy Mounted Fixtures (Ea.)		2	Ea.	\$4,166	10
		Sub Total for System	3	items	\$30,167	
Plumbing						
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Domestic Water Equipment	Water Heater - Electric - 40 gallon		1	Ea.	\$2,684	3
Plumbing Fixtures	Restroom Lavatory		9	Ea.	\$24,447	4
Plumbing Fixtures	Sink - Service / Mop Sink		1	Ea.	\$796	4
Plumbing Fixtures	Toilets		9	Ea.	\$45,534	4
Plumbing Fixtures	Non-Refrigerated Drinking Fountain		1	Ea.	\$2,384	5
Plumbing Fixtures	Classroom Lavatory		9	Ea.	\$23,080	10
		Sub Total for System	6	items	\$98,925	
Fire and Life Safety	/					
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Fire Detection and Alarm	Fire Alarm		10,962	SF	\$17,406	6
Security System Component	Security Alarm System		10,962	SF	\$25,231	8
	Note: Unit in main building					
		Sub Total for System	2	items	\$42,637	
Sub Total for Building 171B - Stand-Alone Classroom B		Ione Classroom Building	20	items	\$413,713	
		Total for: Palm ES	71	items	\$9,679,231	



Austin ISD - Palm ES

## **Supporting Photos**

#### **General Site Photos**



Typical electrical distribution panels



Stage sound system



Typical accoustical ceiling



Covered Walkway to School Entrance



HVAC Condensing unit



Worn vent



Austin ISD - Palm ES



Corroding water heater pipes



Drinking fountain not working