

Capital Reserves Study

Palatine Public Library
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Project Number 162592

INTRODUCTION

Purpose

The Library has identified a need to evaluate its current facilities and assess the current conditions, likely life expectancy for the various components of the facilities and identify likely replacement costs for those components reaching the end of their useful performance life. The scope of this study is to identify those building systems or components that can be maintained or replaced using designated funds.

Definitions

Capital Replacements

Evaluation of building condition focused on the elements likely to be included in a Special Repair Fund. Equipment, materials or assemblies that are nominal in cost or are a part of routine maintenance are not included. This is therefore not a comprehensive list but does identify major expenses that are likely to be incurred in the foreseeable future. A supplemental tally of maintenance items is included as a separate worksheet.

For this study an item must have a life span **OR** a capital expense as defined in the following table. Other items are scheduled as maintenance items or included in the FF&E or IT worksheets.

Minimum Life Expectancy	10	YEARS
Minimum Capital Expense	10,000	USD

Escalation

Costs are calculated at 2015 levels and escalated at a presumed rate of inflation, adjusted in 3.00% per

Changes in long term average escalation rates can be reflected in the workbook by revising the rate in the highlighted cell. Anomalies or short term spikes should not be used as a basis for revising the long term projections. Only extended periods of reduced or increased inflation in the construction industry should be reflected by changes to the escalation rate.

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Limitations

The appended schedules include opinions of both anticipated repair or replacement dates and probable cost. All are subjective and require ongoing monitoring to assess the impact of continued building use, maintenance procedures, weather and other factors that will influence the longevity of products and assemblies.

As to cost, many decisions regarding material selection, system development and project parameters have yet to be defined. Market conditions, as always, are beyond the control of the architect or estimator and will vary over time. No guarantee is given or implied that costs will not vary from these schedules. In order to ensure conformance with projected costs it is imperative that additional estimates are prepared or specific proposals sought from potential vendors or contractors as the projected replacement or repair date nears.

The costs identified do not include routine maintenance. The costs do not address changes in service models or delivery methodology.

Conditions change with time and this evaluation, along with the funds allocated to cover the associated expenses should be reviewed and revised periodically as the library's needs evolve. Unanticipated expenses can develop for a number of reasons including accelerated use or changes in use patterns, accident, or deferred general maintenance. Such reviews should include updating baseline costs for the components or assemblies identified.

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Using the Workbook

The workbook is intended as a working tool for ongoing tracking and analysis of building integrity and anticipated expenses. Data is entered and monitored on the 'Tracking File' worksheet. As conditions are reviewed, repairs or replacements made, the worksheet should be updated with the installation date and a projected 'theoretical' life expectancy. This is the only worksheet that should be used for data entry. All other worksheets are copies sorted by the various indicated criteria with modifications to include repeated events.

Intro

Care should be taken when updating the tracking file to replace the secondary

TF

worksheets with new sorted versions to stay consistent with ongoing replacements and repairs. Frequent sorts and filters are pre-programmed in the Intro worksheet.

Expand all outline groups to expose all date fields. This will facilitate data entry and review.

Enter data as appropriate to the system, location, and projected life expectancy, as well as replacement cost and year of replacement and evaluation.

This file includes only the first occurrence of each type of repair or replacement. Short lived improvements such as painting may occur multiple times in a planning window.

Use caution when copying rows - the root unit cost methodology for the engineering systems is different from the architectural components and from each other.

Additional variations in defining root costs and escalated cost are introduced via the various repair concepts (Plan B, CR Repairs, Renewal/Renovation...). Do not assume adjacent rows have equivalent calculation methods.

S

Summary is a multiple condition sort of the TF file. Do not enter data in this sheet.

CR

Capital Repairs is a multiple condition sort of the TF file. Do not enter data in this sheet.

M

Maintenance is a multiple condition sort of the TF file. Do not enter data in this sheet.

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Calendar Year	SUM					Sum 1-4
	Summary of CR + M Costs					
	1	2	3	3.H	4	
Life Safety	Building Integrity	Functional Obsolescence	Heat Pump Replacement	Aesthetic Obsolescence		
2016	\$0	\$0	\$0	\$0	\$0	\$0
2017	\$0	\$0	\$0	\$77,289	\$0	\$77,289
2018	\$0	\$131,587	\$105,023	\$79,607	\$71,946	\$388,164
2019	\$0	\$0	\$297,066	\$131,995	\$13,219	\$442,279
2020	\$0	\$61,402	\$395,176	\$131,150	\$11,178	\$598,906
5 Year Group	\$0	\$192,989	\$797,265	\$420,040	\$96,342	\$1,506,637
2021	\$1,546	\$13,566	\$223,558	\$216,119	\$89,611	\$544,401
2022	\$8,920	\$107,883	\$402,697	\$176,888	\$897,859	\$1,594,246
2023	\$0	\$0	\$466,854	\$0	\$329,566	\$796,420
2024	\$0	\$1,761,249	\$109,842	\$0	\$0	\$1,871,090
2025	\$1,567	\$68,751	\$11,749	\$0	\$0	\$82,066
5 Year Group	\$12,033	\$1,951,448	\$1,214,699	\$393,007	\$1,317,036	\$4,888,224
2026	\$120,117	\$230,442	\$669,939	\$0	\$124,715	\$1,145,213
2027	\$0	\$3,854	\$293,777	\$18,466	\$10,116	\$326,213
2028	\$0	\$0	\$29,764	\$29,480	\$0	\$59,244
2029	\$0	\$14,182	\$42,064	\$36,438	\$42,151	\$134,835
2030	\$0	\$0	\$522,609	\$25,222	\$0	\$547,831
5 Year Group	\$120,117	\$248,477	\$1,558,152	\$109,606	\$176,983	\$2,213,336
2031	\$0	\$0	\$54,348	\$77,937	\$0	\$132,286
2032	\$0	\$48,398	\$3,870	\$26,758	\$0	\$79,026
2033	\$0	\$0	\$29,886	\$82,353	\$152,817	\$265,056
2034	\$0	\$0	\$16,589	\$95,157	\$0	\$111,745
2035	\$0	\$0	\$18,479	\$20,936	\$0	\$39,415
5 Year Group	\$0	\$48,398	\$123,172	\$303,141	\$152,817	\$627,528
TOTAL	\$132,150	\$2,441,313	\$3,693,289	\$1,225,795	\$1,743,178	\$9,235,725

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S Summaries

These are extended view summaries covering anticipated costs through 2092.
See Budget Category Codes at bottom of this sheet.

CSI Division		CR	M	-	-	-
03	Concrete	\$130,153	\$5,704	\$0	\$0	\$0
04	Masonry	\$182,821	\$34,683	\$0	\$0	\$0
05	Metals	\$149,425	\$23,941	\$0	\$0	\$0
06	Wood	\$195,297	\$9,003	\$0	\$0	\$0
07	Thermal & Moisture	\$55,270	\$1,394	\$0	\$0	\$0
07R	Roof	\$1,751,559	\$0	\$0	\$0	\$0
07W	Windows	\$0	\$7,515	\$0	\$0	\$0
08	Doors & Windows	\$74,295	\$87,056	\$0	\$0	\$0
09	Finishes	\$1,518,350	\$65,039	\$0	\$0	\$0
10	Specialties	\$23,897	\$33,173	\$0	\$0	\$0
11	Equipment	\$159,472	\$18,209	\$0	\$0	\$0
12	Furnishings	\$0	\$0	\$0	\$0	\$0
13	Special Construction	\$0	\$0	\$0	\$0	\$0
14	Conveying Devices	\$677,191	\$0	\$0	\$0	\$0
21	Fire Protection	\$2,411,436	\$3,956	\$0	\$0	\$0
22	Plumbing	\$672,355	\$37,276	\$0	\$0	\$0
23	HVAC	\$1,591,957	\$102,945	\$0	\$0	\$0
23HP	HVAC- Heat Pumps	\$736,942	\$672,562	\$0	\$0	\$0
26	Electrical	\$912,115	\$8,964	\$0	\$0	\$0
27	Technology	\$0	\$0	\$0	\$0	\$0
28	Electronic Security	\$84,327	\$0	\$0	\$0	\$0
31	Earthwork	\$0	\$0	\$0	\$0	\$0
32	Site	\$1,483,397	\$37,456	\$0	\$0	\$0
33	Utilities	\$0	\$0	\$0	\$0	\$0
		\$12,810,259	\$1,148,877	\$0	\$0	\$0

Notes

Priority		CR	M	-	-	-
1	Life Safety Issue	\$2,615,880	\$12,033	\$0	\$0	\$0
2	Building Integrity At Risk	\$2,386,896	\$138,047	\$0	\$0	\$0
3	Functionally Obsolete	\$5,386,544	\$267,054	\$0	\$0	\$0
3.H	Heat Pump Replacement	\$736,942	\$672,562	\$0	\$0	\$0
4	Aesthetically Obsolete	\$1,683,997	\$59,181	\$0	\$0	\$0
		\$12,810,259	\$1,148,877	\$0	\$0	\$0

Budget Category Codes

CR	Capital Repairs
M	Major Maintenance

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Column B Key				Column C Key				O	R	Q	Column Codes			U	
Range Limit: Items are included in summaries upto the year: 2036				KEY: Budget Category CR Capital Repairs M Maintenance				KEY: Priority 1 Life Safety Issue, Code 2 Building Integrity At Risk 3 Functionally Obsolete 4 Aesthetically Obsolete				KEY: Condition Better than normal Normal matches industry standard Wearing faster than normal Used Up Needs replacement -1 Repaired or replaced since Original Construction			U=R U≠R

1992										2016								2016	2016	2016
Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data					
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG	
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan	
1	CR	2	PL	Parking Levels	1992	03	Concrete	LL Parking	Reseal Concrete Traffic Zones - Drive Lanes	2005	10	2020	4	2016	Normal	4	2020	\$ 54,555	\$ 61,402	
2	CR	2	PL	Parking Levels	1992	03	Concrete	LL Parking Drive Lanes	Reseal Concrete Traffic Zones - Parking Areas	2005	20	2025	9	2016	Normal	9	2025	\$ 52,692	\$ 68,751	
3	M	2	PL	Parking Levels	1992	03	Concrete	LL Parking Drive Lanes	Reseal Concrete Traffic Zones - spot repair	2016	5	2050	34	2016	Normal	34	2050	\$ 2,088	\$ 5,704	
4	CR	2	EXT	Exterior	1992	04	Masonry	South	Brick - clean & Repoint	1992	25	2022	6	2016	Normal	6	2022	\$ 11,206	\$ 13,380	
5	CR	2	EXT	Exterior	1992	04	Masonry	East	Brick - clean & Repoint	1992	25	2022	6	2016	Normal	6	2022	\$ 10,556	\$ 12,604	
6	CR	2	EXT	Exterior	1992	04	Masonry	West	Brick - clean & Repoint	1992	25	2022	6	2016	Normal	6	2022	\$ 10,556	\$ 12,604	
7	CR	2	EXT	Exterior	1992	04	Masonry	North	Brick - clean & Repoint	1992	25	2022	6	2016	Normal	6	2022	\$ 10,231	\$ 12,217	
8	M	2	EXT	Stair Tower	1992	04	Masonry	NE	New masonry Joint	1992	35	2018	2	2016	Normal	2	2018	\$ 2,042	\$ 2,166	
9	M	2	EXT	Stair Tower	1992	04	Masonry	NW	New masonry Joint	1992	35	2018	2	2016	Normal	2	2018	\$ 2,042	\$ 2,166	
10	M	2	EXT	Stair Tower	1992	04	Masonry	SE	New masonry Joint	1992	35	2018	2	2016	Normal	2	2018	\$ 2,042	\$ 2,166	
11	M	2	EXT	Stair Tower	1992	04	Masonry	SW	New masonry Joint	1992	35	2018	2	2016	Normal	2	2018	\$ 2,042	\$ 2,166	
12	M	2	EXT	Exterior	1992	04	Masonry	North	Stone - repoint joints - combination work	1992	30	2022	6	2016	Normal	6	2022	\$ 4,510	\$ 5,385	
13	M	2	EXT	Exterior	1992	04	Masonry	East	Stone - repoint joints - combination work	1992	30	2022	6	2016	Normal	6	2022	\$ 4,427	\$ 5,286	
14	M	2	EXT	Exterior	1992	04	Masonry	South	Stone - repoint joints - combination work	1992	30	2022	6	2016	Normal	6	2022	\$ 3,898	\$ 4,654	
15	M	2	EXT	Exterior	1992	04	Masonry	West	Stone - repoint joints - combination work	1992	30	2022	6	2016	Normal	6	2022	\$ 2,951	\$ 3,524	

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1992										2016								2016		2016	
Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data						
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG		
	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan		
16	CR	2	EXT	Exterior	1992	04	Masonry	South	Stone - stabilize	2017	25	2042	26	2016	Normal	26	2042	\$ 8,120	\$ 17,512		
17	M	2	EXT	Exterior	1992	04	Masonry	South	Stone - stabilize	1992	25	2017	1	2016	Better	10	2026	\$ 1,624	\$ 2,183		
18	M	2	EXT	Exterior	1992	04	Masonry	North	Stone - stabilize	1992	25	2017	1	2016	Better	10	2026	\$ 1,253	\$ 1,684		
19	M	2	EXT	Exterior	1992	04	Masonry	East	Stone - stabilize	1992	25	2017	1	2016	Better	10	2026	\$ 1,230	\$ 1,652		
20	M	2	EXT	Exterior	1992	04	Masonry	West	Stone - stabilize	1992	25	2017	1	2016	Better	10	2026	\$ 1,230	\$ 1,652		
21	CR	2	EXT	Exterior - Horizontal	1992	04	Masonry	North	Stone & Brick - reseal joints	1992	20	2018	2	2016	Normal	2	2018	\$ 26,983	\$ 28,626		
22	CR	2	EXT	Exterior - Horizontal	1992	04	Masonry	East	Stone & Brick - reseal joints	1992	20	2018	2	2016	Normal	2	2018	\$ 26,983	\$ 28,626		
23	CR	2	EXT	Exterior - Horizontal	1992	04	Masonry	South	Stone & Brick - reseal joints	1992	20	2018	2	2016	Normal	2	2018	\$ 26,983	\$ 28,626		
24	CR	2	EXT	Exterior - Horizontal	1992	04	Masonry	West	Stone & Brick - reseal joints	1992	20	2018	2	2016	Normal	2	2018	\$ 26,983	\$ 28,626		
25	M	2	EXT	Exterior	1992	05	Metals	North	Lintels, Steel, painted - repaint	2014	15	2029	13	2016	Normal	13	2029	\$ 3,132	\$ 4,599		
26	M	2	EXT	Exterior	1992	05	Metals	East	Lintels, Steel, painted - repaint	2014	15	2029	13	2016	Normal	13	2029	\$ 2,175	\$ 3,194		
27	M	2	EXT	Exterior	1992	05	Metals	South	Lintels, Steel, painted - repaint	2014	15	2029	13	2016	Normal	13	2029	\$ 2,175	\$ 3,194		
28	M	2	EXT	Exterior	1992	05	Metals	West	Lintels, Steel, painted - repaint	2014	15	2029	13	2016	Normal	13	2029	\$ 2,175	\$ 3,194		
29	M	2	EXT	Exterior	1992	05	Metals	East Parling Lot	Railings - repaint	2014	10	2024	8	2016	Normal	8	2024	\$ 4,239	\$ 5,369		
30	M	2	EXT	Exterior	1992	05	Metals	UL Parking - East	Railings - repaint	2014	10	2024	8	2016	Normal	8	2024	\$ 974	\$ 1,234		

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1992										2016								2016	2016	2016
Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data					
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG	
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan	
31	M	2	EXT	Exterior	1992	05	Metals	LL Parking - East	Railings - repaint	2014	10	2024	8	2016	Normal	8	2024	\$ 974	\$ 1,234	
32	M	2	EXT	Exterior	1992	05	Metals	UL Parking - West	Railings - repaint	2014	10	2024	8	2016	Normal	8	2024	\$ 522	\$ 661	
33	M	2	EXT	Exterior	1992	05	Metals	LL Parking - West	Railings - repaint	2014	10	2024	8	2016	Normal	8	2024	\$ 522	\$ 661	
34	M	2	EXT	Exterior	1992	05	Metals	Area Well - East	Railings - repaint	2014	10	2024	8	2016	Normal	8	2024	\$ 418	\$ 529	
35	M	2	EXT	Exterior	1992	05	Metals	Area Well - West	Railings - repaint	1992	10	2017	1	2016	Better	10	2026	\$ 52	\$ 70	
36	CR	2	EXT	Exterior	1992	05	Metals	East Parling Lot	Railings - replace	1992	30	2022	6	2016	Better	10	2026	\$ 95,526	\$ 128,379	
37	CR	2	EXT	Exterior	1992	05	Metals	Area Well - East	Railings - replace	1992	30	2022	6	2016	Better	10	2026	\$ 7,830	\$ 10,523	
38	CR	2	EXT	Exterior	1992	05	Metals	Area Well - West	Railings - replace	1992	30	2022	6	2016	Better	10	2026	\$ 7,830	\$ 10,523	
39	CR	3	INT	Whole Building	1992	06	Wood		Type A: Base + Counter + Upper	1992	20	2012	-4	2016	Better	10	2026	\$ 74,269	\$ 99,811	
40	M	3	INT	Whole Building	1992	06	Wood		Type B: Counter	1992	20	2012	-4	2016	Better	10	2026	\$ 6,699	\$ 9,003	
41	CR	3	INT	Whole Building	1992	06	Wood		Type C: Base + Counter	1992	20	2012	-4	2016	Better	10	2026	\$ 34,191	\$ 45,950	
42	CR	3	INT	Whole Building	1992	06	Wood		Type D: Upper Only	1992	20	2012	-4	2016	Better	10	2026	\$ 15,544	\$ 20,890	
43	CR	3	INT	Whole Building	1992	06	Wood		Type E: Upper and Counter	1992	20	2012	-4	2016	Better	10	2026	\$ 21,315	\$ 28,646	
44	M	4	EXT	Exterior	1992	07	Thermal & Moisture	First Floor	Ceilings, exposed plaster soffit - repainting	1992	5	1997	-19	2016	Better	3	2019	\$ 1,276	\$ 1,394	
45	CR	4	PL	Parking Levels	1992	07	Thermal & Moisture	LL Parking	Insulation repair - Spray-on	1992	25	2017	1	2016	Better	5	2021	\$ 25,404	\$ 29,450	

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1992										2016				2016		2016			
Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data				
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan
46	CR	4	PL	Parking Levels	1992	07	Thermal & Moisture	UL Parking	Insulation repair - Spray-on	1992	25	2017	1	2016	Better	5	2021	\$ 22,272	\$ 25,819
47	M	2	EXT	Exterior	1992	08	Doors & Windows	South	Curtainwall - replace perimeter sealant	1992	12	2004	-12	2016	Used Up	-12	2018	\$ 1,543	\$ 1,543
48	M	2	EXT	Exterior	1992	08	Doors & Windows	North	Curtainwall - replace perimeter sealant	1992	12	2004	-12	2016	Used Up	-12	2018	\$ 1,072	\$ 1,072
49	M	2	EXT	Exterior	1992	08	Doors & Windows	East	Curtainwall - replace perimeter sealant	1992	12	2004	-12	2016	Used Up	-12	2018	\$ 292	\$ 292
50	M	2	EXT	Exterior	1992	08	Doors & Windows	West	Curtainwall - replace perimeter sealant	1992	12	2004	-12	2016	Used Up	-12	2018	\$ 292	\$ 292
51	CR	2	EXT	First Floor	1992	08	Doors & Windows		Doors, Exterior Aluminum - replace	1992	40	2032	16	2016	Normal	16	2032	\$ 27,840	\$ 44,675
52	M	2	EXT	Second Floor	1992	08	Doors & Windows		Doors, Exterior Aluminum - replace	1992	40	2032	16	2016	Normal	16	2032	\$ 2,320	\$ 3,723
53	M	2	EXT	First Floor	1992	08	Doors & Windows		Doors, Exterior Aluminum Entrance Operator - Replace	1992	20	2012	-4	2016	Used Up	-4	2018	\$ 5,220	\$ 5,220
54	M	2	INT	Interior	1992	08	Doors & Windows	Lobby	Doors, Exterior Aluminum Entrance Operator - Replace	1992	20	2012	-4	2016	Better	5	2021	\$ 5,220	\$ 6,051
55	M	2	PL	LL Parking	1992	08	Doors & Windows		Doors, Exterior Aluminum Entrance Operator - Replace	1992	20	2012	-4	2016	Better	10	2026	\$ 1,740	\$ 2,338
56	M	2	PL	UL Parking	1992	08	Doors & Windows		Doors, Exterior Aluminum Entrance Operator - Replace	1992	20	2012	-4	2016	Better	10	2026	\$ 1,740	\$ 2,338
57	M	2	EXT	First Floor	1992	08	Doors & Windows		Doors, Exterior Hollow Metal - repaint	1992	10	2002	-14	2016	Used Up	-14	2026	\$ 5,011	\$ 5,011
58	M	2	PL	UL Parking	1992	08	Doors & Windows		Doors, Exterior Hollow Metal - repaint	1992	10	2002	-14	2016	Better	10	2026	\$ 5,011	\$ 6,735
59	M	2	PL	LL Parking	1992	08	Doors & Windows		Doors, Exterior Hollow Metal - repaint	1992	10	2002	-14	2016	Better	10	2026	\$ 4,176	\$ 5,612
60	M	2	EXT	First Floor	1992	08	Doors & Windows		Doors, Exterior Hollow Metal - replace	1992	30	2022	6	2016	Better	10	2026	\$ 2,227	\$ 2,993

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0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan			
61	M	2	PL	UL Parking	1992	08	Doors & Windows		Doors, Exterior Hollow Metal - replace	1992	30	2022	6	2016	Better	10	2026	\$ 2,227	\$ 2,993			
62	M	2	PL	LL Parking	1992	08	Doors & Windows		Doors, Exterior Hollow Metal - replace	1992	30	2022	6	2016	Better	10	2026	\$ 1,856	\$ 2,494			
63	M	2	INT	Interior	1992	08	Doors & Windows	Lobby	Doors, Overhead Coiling Grille - Repair	1992	20	2012	-4	2016	Better	11	2027	\$ 2,784	\$ 3,854			
64	M	2	PL	UL Parking	1992	08	Doors & Windows		Doors, Overhead Exterior Coiling Grille - Repair	1992	20	2012	-4	2016	Better	10	2026	\$ 3,480	\$ 4,677			
65	CR	2	PL	UL Parking	1992	08	Doors & Windows		Doors, Overhead Exterior Coiling Grille - Replace	1992	40	2032	16	2016	Wearing	10	2026	\$ 11,600	\$ 15,589			
66	CR	2	EXT	First Floor	1992	08	Doors & Windows		Garage Door - Replace	1992	20	2012	-4	2016	Better	10	2026	\$ 10,440	\$ 14,030			
67	M	3	EXT	First Floor	1992	08	Doors & Windows		Door-Hardware - replace	1992	20	2012	-4	2016	Used Up	-4	2026	\$ 1,740	\$ 1,740			
68	M	3	PL	UL Parking	1992	08	Doors & Windows		Door-Hardware - replace	1992	20	2012	-4	2016	Better	10	2026	\$ 1,740	\$ 2,338			
69	M	3	PL	LL Parking	1992	08	Doors & Windows		Door-Hardware - replace	1992	20	2012	-4	2016	Better	10	2026	\$ 1,044	\$ 1,403			
70	M	3	EXT	Second Floor	1992	08	Doors & Windows		Door-Hardware - replace	1992	20	2012	-4	2016	Better	10	2026	\$ 116	\$ 156			
71	M	3	INT	Second Floor - Staff	1992	08	Doors & Windows		Interior Door & Hardware - replace	1992	20	2012	-4	2016	Better	10	2026	\$ 5,487	\$ 7,374			
72	M	3	INT	First Floor - Public	1992	08	Doors & Windows		Interior Door & Hardware - replace	1992	20	2012	-4	2016	Better	10	2026	\$ 5,359	\$ 7,202			
73	M	3	INT	First Floor - Staff	1992	08	Doors & Windows		Interior Door & Hardware - replace	1992	20	2012	-4	2016	Better	10	2026	\$ 3,956	\$ 5,316			
74	M	3	INT	Second Floor - Public	1992	08	Doors & Windows		Interior Door & Hardware - replace	1992	20	2012	-4	2016	Better	10	2026	\$ 2,680	\$ 3,601			
75	M	3	PL	LL Parking - Lobby	1992	08	Doors & Windows		Interior Door & Hardware - replace	1992	20	2012	-4	2016	Better	10	2026	\$ 255	\$ 343			

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1992										2016							2016			2016		
Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data							
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG			
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan			
76	M	3	PL	UL Parking - Lobby	1992	08	Doors & Windows		Interior Door & Hardware - replace	1992	20	2012	-4	2016	Better	10	2026	\$ 255	\$ 343			
77	M	3	INT	First Floor - Staff	1992	09	Finishes		Flooring, painted or sealed	1992	10	2002	-14	2016	Used Up	-14	2026	\$ 1,873	\$ 1,873			
78	M	3	INT	Second Floor - Public	1992	09	Finishes		Flooring, painted or sealed	1992	10	2002	-14	2016	Used Up	-14	2026	\$ 46	\$ 46			
79	M	3	INT	First Floor - Public	1992	09	Finishes		Flooring, painted or sealed	1992	10	2002	-14	2016	Used Up	-14	2026	\$ 46	\$ 46			
80	CR	3	INT	First Floor -Staff	1992	09	Finishes		Flooring, Resilient sheet - replace	2013	10	2023	7	2016	Normal	7	2023	\$ 11,658	\$ 14,338			
81	M	3	INT	First Floor - Public	1992	09	Finishes		Flooring, Resilient sheet - replace	2013	10	2023	7	2016	Normal	7	2023	\$ 1,629	\$ 2,003			
82	M	3	INT	Second Floor - Public	1992	09	Finishes		Flooring, Rubber tile - stair - replace	2013	10	2023	7	2016	Normal	7	2023	\$ 3,936	\$ 4,841			
83	M	3	INT	First Floor - Public	1992	09	Finishes		Flooring, Rubber tile - stair - replace	2013	10	2023	7	2016	Normal	7	2023	\$ 2,192	\$ 2,696			
84	CR	4	INT	First Floor - Public	1992	09	Finishes		Ceilings, Acoustic Ceiling Tile - replace	1992	30	2022	6	2016	Normal	6	2022	\$ 197,966	\$ 236,381			
85	CR	4	INT	Second Floor - Public	1992	09	Finishes		Ceilings, Acoustic Ceiling Tile - replace	1992	30	2022	6	2016	Normal	6	2022	\$ 126,586	\$ 151,150			
86	CR	4	PL	UL Parking - Lobby	1992	09	Finishes		Ceilings, Acoustic Ceiling Tile - replace	1992	30	2022	6	2016	Normal	6	2022	\$ 93,487	\$ 111,628			
87	CR	4	INT	Second Floor - Staff	1992	09	Finishes		Ceilings, Acoustic Ceiling Tile - replace	1992	30	2022	6	2016	Normal	6	2022	\$ 59,480	\$ 71,023			
88	CR	4	INT	First Floor - Staff	1992	09	Finishes		Ceilings, Acoustic Ceiling Tile - replace	1992	30	2022	6	2016	Normal	6	2022	\$ 37,523	\$ 44,804			
89	M	4	PL	LL Parking - Lobby	1992	09	Finishes		Ceilings, Acoustic Ceiling Tile - replace	1992	30	2022	6	2016	Normal	6	2022	\$ -	\$ -			
90	CR	4	INT	First Floor - Public	1992	09	Finishes		Ceilings, Plaster Ceilings - repaint	1992	5	1997	-19	2016	Better	2	2018	\$ 12,950	\$ 13,739			

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Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data					
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG	
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan	
91	CR	4	INT	Second Floor - Public	1992	09	Finishes		Ceilings, Plaster Ceilings - repaint	1992	5	1997	-19	2016	Better	2	2018	\$ 11,265	\$ 11,951	
92	M	4	INT	First Floor - Staff	1992	09	Finishes		Ceilings, Plaster Ceilings - repaint	1992	5	1997	-19	2016	Better	2	2018	\$ 4,645	\$ 4,927	
93	M	4	INT	Second Floor - Staff	1992	09	Finishes		Ceilings, Plaster Ceilings - repaint	1992	5	1997	-19	2016	Better	2	2018	\$ 2,014	\$ 2,136	
94	M	4	PL	LL Parking - Lobby	1992	09	Finishes		Ceilings, Plaster Ceilings - repaint	1992	5	1997	-19	2016	Better	2	2018	\$ 597	\$ 634	
95	M	4	PL	UL Parking - Lobby	1992	09	Finishes		Ceilings, Plaster Ceilings - repaint	1992	5	1997	-19	2016	Better	2	2018	\$ 597	\$ 634	
96	CR	4	INT	First Floor - Public	2013	09	Finishes		Flooring, Carpet Tile - replace	2013	10	2023	7	2016	Normal	7	2023	\$ 215,180	\$ 264,644	
97	CR	4	INT	Second Floor - Public	2009	09	Finishes		Flooring, Carpet Tile - replace	2009	13	2022	6	2016	Normal	6	2022	\$ 175,009	\$ 208,970	
98	CR	4	INT	Second Floor - Staff	2009	09	Finishes		Flooring, Carpet Tile - replace	2009	13	2022	6	2016	Normal	6	2022	\$ 45,675	\$ 54,538	
99	CR	4	INT	First Floor - Staff	2013	09	Finishes		Flooring, Carpet Tile - replace	2013	10	2023	7	2016	Normal	7	2023	\$ 36,830	\$ 45,296	
100	CR	4	INT	First Floor - Public	1992	09	Finishes		Flooring, Ceramic Tile - replace	2013	20	2033	17	2016	Normal	17	2033	\$ 19,739	\$ 32,625	
101	CR	4	INT	Second Floor - Staff	1992	09	Finishes		Flooring, Ceramic Tile - replace	1992	35	2027	11	2016	Normal	11	2027	\$ 7,308	\$ 10,116	
102	M	4	INT	Second Floor - Public	2009	09	Finishes		Flooring, Ceramic Tile - replace	2009	20	2029	13	2016	Normal	13	2029	\$ 6,751	\$ 9,914	
103	M	4	INT	First Floor - Staff	1992	09	Finishes		Flooring, Ceramic Tile - replace	1992	35	2027	11	2016	Normal	11	2027	\$ -	\$ -	
104	M	4	INT	First Floor - Public	1992	09	Finishes		Flooring, Ceramic Tile Base - replace	2013	20	2033	17	2016	Normal	17	2033	\$ 4,510	\$ 7,454	
105	M	4	INT	Second Floor - Staff	1992	09	Finishes		Flooring, Ceramic Tile Base - replace	2009	20	2029	13	2016	Normal	13	2029	\$ 3,048	\$ 4,477	

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1992										2016				2016			2016		
Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data				
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan
106	M	4	INT	Second Floor - Public	1992	09	Finishes		Flooring, Ceramic Tile Base - replace	2009	20	2029	13	2016	Normal	13	2029	\$ 2,158	\$ 3,169
107	CR	4	INT	Second Floor - Staff	2013	09	Finishes		Flooring, VCT - replace	2009	13	2022	6	2016	Normal	6	2022	\$ 16,217	\$ 19,364
108	M	4	INT	Second Floor - Public	2013	09	Finishes		Flooring, VCT - replace	2013	10	2023	7	2016	Normal	7	2023	\$ 3,174	\$ 3,903
109	M	4	INT	First Floor - Public	2013	09	Finishes		Flooring, VCT - replace	2013	10	2023	7	2016	Normal	7	2023	\$ 3,083	\$ 3,792
110	M	4	INT	First Floor - Staff	2013	09	Finishes		Flooring, VCT - replace	2009	10	2019	3	2016	Normal	3	2019	\$ 592	\$ 646
111	M	4	PL	LL Parking - Lobby	1992	09	Finishes		Flooring, Walk-Off	1992	20	2012	-4	2016	Better	5	2021	\$ 4,779	\$ 5,540
112	M	4	PL	UL Parking - Lobby	1992	09	Finishes		Flooring, Walk-Off	1992	20	2012	-4	2016	Better	5	2021	\$ 4,779	\$ 5,540
113	CR	4	INT	First Floor - Public	1992	09	Finishes		Walls, Ceramic Tile - replace	2013	20	2033	17	2016	Normal	17	2033	\$ 68,208	\$ 112,737
114	CR	4	INT	Second Floor - Staff	1992	09	Finishes		Walls, Ceramic Tile - replace	2009	20	2029	13	2016	Normal	13	2029	\$ 16,746	\$ 24,592
115	CR	4	INT	First Floor Public	2013	09	Finishes		Walls, Paint	2013	5	2018	2	2016	Normal	2	2018	\$ 22,968	\$ 24,367
116	CR	4	INT	Second Floor Public	2009	09	Finishes		Walls, Paint	2009	12	2021	5	2016	Normal	5	2021	\$ 16,397	\$ 19,008
117	CR	4	INT	First Floor Staff	2013	09	Finishes		Walls, Paint	2013	5	2018	2	2016	Normal	2	2018	\$ 12,058	\$ 12,793
118	CR	4	INT	Second Floor Staff	2009	09	Finishes		Walls, Paint	2009	5	2014	-2	2016	Used Up	-2	2023	\$ 11,931	\$ 11,931
119	CR	4	PL	LL Parking - Parking	1992	09	Finishes		Walls, Paint	1992	5	1997	-19	2016	Used Up	-19	2020	\$ 11,178	\$ 11,178
120	CR	4	PL	UL Parking - Parking	1992	09	Finishes		Walls, Paint	1992	5	1997	-19	2016	Used Up	-19	2019	\$ 11,178	\$ 11,178

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1992										2016								2016	2016	2016
Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data					
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG	
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan	
121	M	4	PL	LL Parking - Lobby	1992	09	Finishes		Walls, Paint	1992	5	1997	-19	2016	Used Up	-19	2018	\$ 383	\$ 383	
122	M	4	PL	UL Parking - Lobby	1992	09	Finishes		Walls, Paint	1992	5	1997	-19	2016	Used Up	-19	2018	\$ 383	\$ 383	
123	CR	3	INT	Public - Second Floor	2009	10	Specialties		Toilet Accessories, Multi User - replace	2009	20	2029	13	2016	Normal	13	2029	\$ 7,656	\$ 11,243	
124	CR	3	INT	Public - First Floor	2013	10	Specialties		Toilet Accessories, Multi User - replace	2013	20	2033	17	2016	Normal	17	2033	\$ 7,656	\$ 12,654	
125	M	3	INT	Staff - Second Floor	2009	10	Specialties		Toilet Accessories, Multi User - replace	2009	20	2029	13	2016	Normal	13	2029	\$ 6,380	\$ 9,369	
126	M	3	INT	Staff - First Floor	2013	10	Specialties		Toilet Accessories, Multi User - replace	2013	20	2033	17	2016	Normal	17	2033	\$ -	\$ -	
127	M	3	INT	Public - First Floor	2013	10	Specialties		Toilet Accessories, Single User - replace	2013	20	2033	17	2016	Normal	17	2033	\$ 1,276	\$ 2,109	
128	M	3	INT	Staff - Second Floor	2009	10	Specialties		Toilet Accessories, Single User - replace	2009	20	2029	13	2016	Normal	13	2029	\$ 383	\$ 562	
129	M	3	INT	Public - Second Floor	2009	10	Specialties		Toilet Accessories, Single User - replace	2009	20	2029	13	2016	Normal	13	2029	\$ -	\$ -	
130	M	3	INT	Staff - First Floor	2013	10	Specialties		Toilet Accessories, Single User - replace	2013	20	2033	17	2016	Normal	17	2033	\$ -	\$ -	
131	M	3	INT	Public - Second Floor	2009	10	Specialties		Toilet Partitions - replace	2009	20	2029	13	2016	Normal	13	2029	\$ 5,481	\$ 8,049	
132	M	3	INT	Public - First Floor	2013	10	Specialties		Toilet Partitions - replace	2013	20	2033	17	2016	Normal	17	2033	\$ 5,481	\$ 9,059	
133	M	3	INT	Staff - Second Floor	2009	10	Specialties		Toilet Partitions - replace	2009	20	2029	13	2016	Normal	13	2029	\$ 2,741	\$ 4,025	
134	M	3	INT	Public - Second Floor	2009	10	Specialties		Toilet Partitions - replace	2009	20	2029	13	2016	Normal	13	2029	\$ -	\$ -	
135	M	3	INT	Public - Second Floor	2009	10	Specialties		Toilet Partitions - replace	2009	20	2029	13	2016	Normal	13	2029	\$ -	\$ -	

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1992										2016								2016		2016	
Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data						
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG		
	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan		
136	M	3	INT	Staff - Second Floor	2009	10	Specialties		Toilet Partitions - replace	2009	20	2029	13	2016	Normal	13	2029	\$ -	\$ -		
137	M	3	INT	Staff - First Floor	2013	10	Specialties		Toilet Partitions - replace	2013	20	2033	17	2016	Normal	17	2033	\$ -	\$ -		
138	M	3	INT	Staff - First Floor	2013	10	Specialties		Toilet Partitions - replace	2013	20	2033	17	2016	Normal	17	2033	\$ -	\$ -		
139	M	3	INT	First Floor	1992	11	Equipment		Operable Wall Panels - refinish	2013	15	2028	12	2016	Normal	12	2028	\$ 6,438	\$ 9,179		
140	M	3	INT	First Floor	1992	11	Equipment		Operable Wall Panels - refinish	2013	15	2028	12	2016	Normal	12	2028	\$ 3,167	\$ 4,515		
141	M	3	INT	First Floor	1992	11	Equipment		Operable Wall Panels - refinish	2013	15	2028	12	2016	Normal	12	2028	\$ 3,167	\$ 4,515		
142	CR	3	INT	First Floor	1992	11	Equipment		Operable Wall Panels - replace	1992	45	2037	21	2016	Normal	21	2037	\$ 43,500	\$ 80,923		
143	CR	3	INT	First Floor	1992	11	Equipment		Operable Wall Panels - replace	1992	45	2037	21	2016	Normal	21	2037	\$ 21,112	\$ 39,275		
144	CR	3	INT	First Floor	1992	11	Equipment		Operable Wall Panels - replace	1992	45	2037	21	2016	Normal	21	2037	\$ 21,112	\$ 39,275		
145	CR	3	INT	Interior	1992	14	Conveying Devices	Elevator 4	Elevator - replace controls & pump	1992	25	2017	1	2016	Better	5	2021	\$ 104,400	\$ 121,028		
146	CR	3	INT	Interior	1992	14	Conveying Devices	Elevator 1	Elevator - replace controls & pump	1992	25	2017	1	2016	Better	10	2026	\$ 52,200	\$ 70,152		
147	CR	3	INT	Interior	1992	14	Conveying Devices	Elevator 2	Elevator - replace controls & pump	1992	25	2017	1	2016	Better	10	2026	\$ 52,200	\$ 70,152		
148	CR	3	INT	Interior	1992	14	Conveying Devices	Elevator 3	Elevator - replace controls & pump	1992	25	2017	1	2016	Better	10	2026	\$ 52,200	\$ 70,152		
149	CR	3	INT	Interior	1992	14	Conveying Devices	Elevator 4	Elevator - replace cylinder	1992	25	2017	1	2016	Better	5	2021	\$ 69,600	\$ 80,685		
150	CR	3	INT	Interior	1992	14	Conveying Devices	Elevator 1	Elevator - replace cylinder	1992	25	2017	1	2016	Better	10	2026	\$ 34,800	\$ 46,768		

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151	CR	3	INT	Interior	1992	14	Conveying Devices	Elevator 2	Elevator - replace cylinder	1992	25	2017	1	2016	Better	10	2026	\$ 34,800	\$ 46,768		
152	CR	3	INT	Interior	1992	14	Conveying Devices	Elevator 3	Elevator - replace cylinder	1992	25	2017	1	2016	Better	10	2026	\$ 34,800	\$ 46,768		
153	CR	4	INT	Interior	1992	14	Conveying Devices	Elevator 1	Elevator - replace finishes	1992	25	2017	1	2016	Better	10	2026	\$ 23,200	\$ 31,179		
154	CR	4	INT	Interior	1992	14	Conveying Devices	Elevator 2	Elevator - replace finishes	1992	25	2017	1	2016	Better	10	2026	\$ 23,200	\$ 31,179		
155	CR	4	INT	Interior	1992	14	Conveying Devices	Elevator 3	Elevator - replace finishes	1992	25	2017	1	2016	Better	10	2026	\$ 23,200	\$ 31,179		
156	CR	4	INT	Interior	1992	14	Conveying Devices	Elevator 4	Elevator - replace finishes	1992	25	2017	1	2016	Better	10	2026	\$ 23,200	\$ 31,179		
157	M	1	INT	Mechanical/Storage	1992	21	Fire Protection		Air Compressor for Dry	2015	10	2025	9	2016	Normal	9	2025	\$ 1,201	\$ 1,567		
158	M	1	INT	Mechanical/Storage	1992	21	Fire Protection		Backflow Preventer	1992	30	2022	6	2016	Normal	6	2022	\$ 2,001	\$ 2,389		
159	CR	1	INT	Whole Building	1992	21	Fire Protection		Mains and Branches	1992	60	2052	36	2016	Normal	36	2052	\$ 260,130	\$ 753,929		
160	CR	1	PL	Parking Levels	1992	21	Fire Protection		Mains for Dry System	2017	50	2067	51	2016	Normal	51	2067	\$ 290,145	\$ 1,310,127		
161	CR	1	INT	Ceiling Plenum	1992	21	Fire Protection		Sprinkler heads	1992	50	2042	26	2016	Normal	26	2042	\$ 74,037	\$ 159,668		
162	CR	1	INT	Stairs	1992	21	Fire Protection		Standpipe Hose Connections	1992	100	2092	76	2016	Normal	76	2092	\$ 8,404	\$ 79,456		
163	CR	1	INT	Mechanical/Storage	1992	21	Fire Protection		Water Service	1992	60	2052	36	2016	Normal	36	2052	\$ 37,352	\$ 108,256		
164	M	1	INT	Mechanical/Storage	1992	22	Plumbing		Backflow Preventer	1992	30	2022	6	2016	Normal	6	2022	\$ 2,001	\$ 2,389		
165	M	1	INT	Mechanical Room	1992	22	Plumbing		Backflow Preventer	1992	30	2022	6	2016	Normal	6	2022	\$ 1,801	\$ 2,150		

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1992										2016								2016	2016	2016
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0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan	
166	M	1	INT	Mechanical/Storage	1992	22	Plumbing		Backflow Preventer	1992	30	2022	6	2016	Normal	6	2022	\$ 1,668	\$ 1,991	
167	M	1	INT	Garage	1992	22	Plumbing		Eyewash and Drench Shower	1992	25	2017	1	2016	Better	5	2021	\$ 1,334	\$ 1,546	
168	CR	2	INT	Pump Room North	1992	22	Plumbing		Sump Pump	1992	30	2022	6	2016	Normal	6	2022	\$ 32,016	\$ 38,229	
169	CR	2	INT	Mechanical/Storage	1992	22	Plumbing		Water Service	1992	50	2042	26	2016	Normal	26	2042	\$ 28,014	\$ 60,415	
170	M	3	INT	Pump Room	1992	22	#N/A		Domestic Water Heaters	2014	15	2029	13	2016	Normal	13	2029	\$ 4,002	\$ 5,877	
171	CR	3	INT	Scattered	1992	22	Plumbing		Drinking Fountain with Bottle Station	2012	15	2027	11	2016	Normal	11	2027	\$ 7,270	\$ 10,064	
172	CR	3	INT	Scattered	1992	22	Plumbing		Electric Drinking Fountain	2013	15	2028	12	2016	Normal	12	2028	\$ 8,104	\$ 11,554	
173	CR	3	INT	Scattered	1992	22	Plumbing		Faucet with Hand Dryer	2012	15	2027	11	2016	Normal	11	2027	\$ 26,413	\$ 36,562	
174	CR	3	INT	Scattered	1992	22	Plumbing		Faucets and Trim	2002	25	2027	11	2016	Normal	11	2027	\$ 38,444	\$ 53,216	
175	CR	3	INT	Scattered	1992	22	Plumbing		Floor Drains	1992	50	2042	26	2016	Normal	26	2042	\$ 12,006	\$ 25,892	
176	CR	3	INT	Scattered	1992	22	Plumbing		Flush Valves	2002	25	2027	11	2016	Normal	11	2027	\$ 20,510	\$ 28,391	
177	M	3	EXT	Scattered	1992	22	Plumbing		Hose Bibs	1992	25	2017	1	2016	Better	5	2021	\$ 5,503	\$ 6,379	
178	M	3	INT	Pump Room	1992	22	Plumbing		Hot Water Circulation Pump	2016	15	2031	15	2016	Normal	15	2031	\$ 867	\$ 1,351	
179	CR	3	INT	Scattered	1992	22	Plumbing		Janitors sink with faucet	1992	30	2022	6	2016	Wearing	5	2021	\$ 10,005	\$ 11,599	
180	CR	3	INT	Whole Building	1992	22	Plumbing		Pipe insulation	1992	50	2042	26	2016	Normal	26	2042	\$ 8,804	\$ 18,987	

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181	CR	3	INT	Scattered	1992	22	Plumbing		Plumbing Specialties	1992	50	2042	26	2016	Normal	26	2042	\$ 10,005	\$ 21,577	
182	CR	3	INT	Scattered	1992	22	Plumbing		Porcelain Fixtures	1992	50	2042	26	2016	Normal	26	2042	\$ 36,568	\$ 78,863	
183	CR	3	EXT	Scattered	1992	22	Plumbing		Roof Drains	1992	50	2042	26	2016	Normal	26	2042	\$ 10,005	\$ 21,577	
184	CR	3	INT	Whole Building	1992	22	Plumbing		Sanitary Piping	1992	50	2042	26	2016	Normal	26	2042	\$ 28,014	\$ 60,415	
185	CR	3	INT	Pump Room South	1992	22	Plumbing		Sewage Ejector	1992	30	2022	6	2016	Normal	6	2022	\$ 27,014	\$ 32,256	
186	CR	3	INT	Scattered	1992	22	Plumbing		Stainless Steel Fixtures	1992	50	2042	26	2016	Normal	26	2042	\$ 8,704	\$ 18,772	
187	CR	3	INT	Whole Building	1992	22	Plumbing		Storm Piping	1992	50	2042	26	2016	Normal	26	2042	\$ 25,013	\$ 53,942	
188	CR	3	INT	Elevators	1992	22	Plumbing		Sump Pump	2017	25	2042	26	2016	Normal	26	2042	\$ 6,403	\$ 13,809	
189	M	3	INT	Scattered	1992	22	Plumbing		Trench Drain	1992	50	2042	26	2016	Normal	26	2042	\$ 4,002	\$ 8,631	
190	CR	3	PL	Garage and parking levels	1992	22	Plumbing		Triple Basin	1992	50	2042	26	2016	Normal	26	2042	\$ 9,338	\$ 20,138	
191	CR	3	INT	Scattered	1992	22	Plumbing		Valves, various sizes	1992	50	2042	26	2016	Normal	26	2042	\$ 10,005	\$ 21,577	
192	CR	3	INT	Whole Building	1992	22	Plumbing		Water Distribution Piping	1992	50	2042	26	2016	Normal	26	2042	\$ 16,008	\$ 34,523	
193	M	3	INT	Pump Room	1992	22	Plumbing		Water Heater Trim	1992	30	2022	6	2016	Normal	6	2022	\$ 2,268	\$ 2,708	
194	M	4	INT	Mechanical/Storage	1992	22	Plumbing		Irrigation Pump	1992	30	2022	6	2016	Wearing	5	2021	\$ 3,669	\$ 4,253	
195	CR	3	EXT	Roof	2005	23	HVAC		AHU-1	2005	25	2030	14	2016	Normal	14	2030	\$ 133,400	\$ 201,779	

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1992										2016								2016	2016	2016
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0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan	
196	CR	3	EXT	Roof	2005	23	HVAC		AHU-2	2005	25	2030	14	2016	Normal	14	2030	\$ 133,400	\$ 201,779	
197	CR	3	INT	LL Mech Room	1992	23	HVAC		B-1 Fulton Condensing Gas Boiler)	2017	20	2037	21	2016	Normal	21	2037	\$ 120,060	\$ 223,347	
198	CR	3	INT	LL Boiler Room	1992	23	HVAC		B-2 (Fulton Condensing Gas Boiler)	2017	25	2042	26	2016	Normal	26	2042	\$ 50,025	\$ 107,883	
199	M	3	INT	LL Boiler Room	1992	23	HVAC		B-2 water pump	2007	18	2025	9	2016	Normal	9	2025	\$ 5,003	\$ 6,527	
200	CR	3	INT	Loading Dock	1992	23	HVAC		B-3	2011	25	2036	20	2016	Normal	20	2036	\$ 33,350	\$ 60,234	
201	CR	3	EXT	Area Well	1992	23	HVAC		Cooling Tower Reseal	2018	12	2030	14	2016	Normal	14	2030	\$ 74,704	\$112,996.50	
202	CR	3	EXT	Area Well	1992	23	HVAC		CT-1	2005	18	2023	7	2016	Normal	7	2023	\$ 360,180	\$ 442,976	
203	M	3	EXT	Area Well	1992	23	HVAC		CT-1 Spray Pump 1	2012	10	2022	6	2016	Normal	6	2022	\$ 5,336	\$ 6,371	
204	M	3	EXT	Area Well	1992	23	HVAC		CT-1 Spray Pump 1 Motor	2012	18	2030	14	2016	Normal	14	2030	\$ 4,002	\$ 6,053	
205	M	3	EXT	Area Well	1992	23	HVAC		CT-1 Spray Pump 2	2009	10	2019	3	2016	Normal	3	2019	\$ 5,336	\$ 5,831	
206	M	3	EXT	Area Well	1992	23	HVAC		CT-1 Spray Pump 2 Motor	2009	18	2027	11	2016	Normal	11	2027	\$ 4,002	\$ 5,540	
207	CR	3	INT	Stairs, elev lobbies	1992	23	HVAC		ECUH-1	1992	32	2024	8	2016	Normal	8	2024	\$ 30,015	\$ 38,022	
208	CR	3	INT	Stairs	1992	23	HVAC		ECUH-2	1992	32	2024	8	2016	Normal	8	2024	\$ 16,675	\$ 21,123	
209	M	3	EXT	Roof	1992	23	HVAC		EF-1	1992	35	2027	11	2016	Normal	11	2027	\$ 3,002	\$ 4,155	
210	M	3	EXT	Roof	1992	23	HVAC		EF-2	1992	35	2027	11	2016	Normal	11	2027	\$ 3,002	\$ 4,155	

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												2016			↓	2016	2016	2016

Key Sort		Location and Category							Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data			
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan
211	M	3	EXT	Roof	1992	23	HVAC		EF-3	1992	35	2027	11	2016	Normal	11	2027	\$ 3,002	\$ 4,155
212	M	3	EXT	Roof	1992	23	HVAC		EF-4	1992	35	2027	11	2016	Normal	11	2027	\$ 3,002	\$ 4,155
213	M	3	EXT	Roof	1992	23	HVAC		EF-5	1992	35	2027	11	2016	Normal	11	2027	\$ 3,002	\$ 4,155
214	M	3	EXT	Roof	1992	23	HVAC		EF-6	1992	35	2027	11	2016	Normal	11	2027	\$ 3,002	\$ 4,155
215	M	3	INT	Garage	1992	23	HVAC		EF-7	1992	35	2027	11	2016	Normal	11	2027	\$ 1,734	\$ 2,401
216	M	3	INT	Garage	1992	23	HVAC		EF-8	1992	35	2027	11	2016	Normal	11	2027	\$ 1,734	\$ 2,401
217	M	3	INT	Garage	1992	23	HVAC		EF-9	1992	35	2027	11	2016	Normal	11	2027	\$ 1,734	\$ 2,401
218	CR	3	INT	Utility closets	1992	23	HVAC		EUH-1	1992	35	2027	11	2016	Wearing	8	2024	\$ 13,340	\$ 16,899
219	CR	3	INT	Utility closets	1992	23	HVAC		EUH-2	1992	35	2027	11	2016	Wearing	8	2024	\$ 13,340	\$ 16,899
220	CR	3	INT	Loading Dock	1992	23	HVAC		EUH-3	1992	35	2027	11	2016	Wearing	8	2024	\$ 13,340	\$ 16,899
221	CR	3	INT	LL Mech Room	1992	23	HVAC		HX-1	1992	35	2027	11	2016	Normal	11	2027	\$ 33,350	\$ 46,164
222	M	3	INT	LL Mech Room	1992	23	HVAC		P-1 - Motor	2015	18	2033	17	2016	Normal	17	2033	\$ 3,669	\$ 6,063
223	CR	3	INT	LL Mech Room	1992	23	HVAC		P-1 - Pump	2015	20	2035	19	2016	Normal	19	2035	\$ 10,539	\$ 18,479
224	M	3	INT	LL Mech Room	1992	23	HVAC		P-2 - Motor	1992	35	2027	11	2016	Normal	11	2027	\$ 3,669	\$ 5,078
225	CR	3	INT	LL Mech Room	1992	23	HVAC		P-2 - Pump	1992	35	2027	11	2016	Normal	11	2027	\$ 16,008	\$ 22,159

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1992										2016				2016			2016		
Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data				
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan
226	M	3	INT	LL Mech Room	1992	23	HVAC		P-3 - Motor	1992	35	2027	11	2016	Normal	11	2027	\$ 3,669	\$ 5,078
227	CR	3	INT	LL Mech Room	1992	23	HVAC		P-3 - Pump	1992	35	2027	11	2016	Normal	11	2027	\$ 16,008	\$ 22,159
228	M	3	INT	LL Mech Room	1992	23	HVAC		P-4 - Motor	1992	35	2027	11	2016	Normal	11	2027	\$ 3,669	\$ 5,078
229	CR	3	INT	LL Mech Room	1992	23	HVAC		P-4 - Pump	1992	35	2027	11	2016	Normal	11	2027	\$ 16,008	\$ 22,159
230	M	3	INT	LL Boiler Room	1992	23	HVAC		P-5 - Motor	2007	18	2025	9	2016	Normal	9	2025	\$ 1,334	\$ 1,741
231	M	3	INT	LL Boiler Room	1992	23	HVAC		P-5 - Pump	1992	30	2022	6	2016	Normal	6	2022	\$ 2,001	\$ 2,389
232	M	3	INT	LL Boiler Room	1992	23	HVAC		P-6 - Motor	2007	18	2025	9	2016	Normal	9	2025	\$ 1,334	\$ 1,741
233	M	3	INT	LL Boiler Room	1992	23	HVAC		P-6 - Pump	1992	30	2022	6	2016	Normal	6	2022	\$ 2,001	\$ 2,389
234	M	3	INT	LL Boiler Room	1992	23	HVAC		P-7 - Motor	2007	18	2025	9	2016	Normal	9	2025	\$ 1,334	\$ 1,741
235	M	3	INT	LL Boiler Room	1992	23	HVAC		P-7 - Pump	1992	30	2022	6	2016	Normal	6	2022	\$ 2,001	\$ 2,389
236	M	3	INT	Loading Dock	1992	23	HVAC		P-8 - Motor	2011	18	2029	13	2016	Normal	13	2029	\$ 2,001	\$ 2,939
237	M	3	INT	Loading Dock	1992	23	HVAC		P-8 - Pump	2011	10	2021	5	2016	Normal	5	2021	\$ 3,335	\$ 3,866
238	CR	3	INT		1992	26	Electrical		Interior Lighting - 2x2	1991	28	2019	3	2016	Normal	3	2019	\$ 168,084	\$ 183,670
239	CR	3	INT		1992	26	Electrical		Interior Lighting - Downlighting	1991	28	2019	3	2016	Normal	3	2019	\$ 85,910	\$ 93,876
240	CR	3	INT		1992	26	Electrical		Interior Lighting - Linear	1991	29	2020	4	2016	Normal	4	2020	\$ 336,168	\$ 378,360

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241	CR	3	GARAGE		1992	26	Electrical		Parking Garage Lighting	2018	8	2026	10	2016	Normal	10	2026	\$ 61,831	\$ 83,096	
242	CR	3	EXT		1992	26	Electrical		Site Lighting	2016	15	2031	15	2016	Normal	15	2031	\$ 34,017	\$ 52,997	
243	CR	1	INT		1992	26	Electrical		Generator	1991	35	2026	10	2016	Normal	10	2026	\$ 89,378	\$ 120,117	
244	M	2	INT		1992	26	Electrical		Mainswitchboard Breakers - annual testing	1991	35	2026	10	2016	Normal	10	2026	\$ 6,670	\$ 8,964	
245	CR	1	INT		1992	28	Electronic Security		Fire Alarm Control Panel	2016	20	2036	20	2016	Normal	20	2036	\$ 46,690	\$ 84,327	
246	M	1	INT		1992	28	Electronic Security		Fire Alarm Coverage	1991	20	2011	-5	2016	Better	5	2021	\$ -	\$ -	
247	CR	3	EXT	West Parking Lot	1992	32	Site		Asphalt Paving	1992	30	2022	6	2016	Normal	6	2022	\$ 48,558	\$ 57,980	
248	CR	3	EXT	Drop off lane	1992	32	Site		Asphalt Paving	1992	30	2022	6	2016	Normal	6	2022	\$ 21,678	\$ 25,884	
249	M	3	EXT	West Parking Lot	1992	32	Site		Asphalt Paving	2017	3	2020	4	2016	Normal	4	2020	\$ 8,538	\$ 9,609	
250	M	3	EXT	East Parking Lot	1992	32	Site		Asphalt Paving	2017	3	2020	4	2016	Normal	4	2020	\$ 6,403	\$ 7,207	
251	M	3	EXT	East Parking Lot	1992	32	Site		Curb and Gutter	1992	30	2022	6	2016	Normal	6	2022	\$ 2,401	\$ 2,867	
252	CR	3	EXT	West Parking Lot	1992	32	Site		Paving - bituminous - mill & overlay	1992	30	2022	6	2016	Normal	6	2022	\$ 117,740	\$ 140,588	
253	CR	3	EXT	East Parking Lot	1992	32	Site		Paving - bituminous - mill & overlay	1992	30	2022	6	2016	Normal	6	2022	\$ 89,320	\$ 106,653	
254	CR	3	EXT	East Parking Lot	1992	32	Site		Paving - bituminous - repair	1992	30	2022	6	2016	Normal	6	2022	\$ 11,600	\$ 13,851	
255	CR	3	EXT	East Parking Lot	1992	32	Site	Ramp	Paving, concrete - replace	1992	27	2019	3	2016	Normal	3	2019	\$ 12,528	\$ 13,690	

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256	CR	3	EXT	West Parking Lot	1992	32	Site	Loading Dock Walls	Segmented Retaining Wall - repair	1992	30	2022	6	2016	Wearing	2	2018	\$ 24,847	\$ 26,360			
257	CR	3	PL	East Light Well	1992	32	Site	Upper Level Wall	Segmented Retaining Wall - repair	1992	30	2022	6	2016	Wearing	2	2018	\$ 14,198	\$ 15,063			
258	CR	3	PL	West Light Well	1992	32	Site	Upper Level Wall	Segmented Retaining Wall - repair	1992	30	2022	6	2016	Wearing	2	2018	\$ 14,198	\$ 15,063			
259	CR	3	EXT	East Parking Lot	1992	32	Site	Perimeter Wall	Segmented Retaining Wall - repair	1992	30	2022	6	2016	Wearing	2	2018	\$ 13,804	\$ 14,645			
260	CR	3	PL	East Light Well	1992	32	Site	Lower Level Wall	Segmented Retaining Wall - repair	1992	30	2022	6	2016	Wearing	2	2018	\$ 12,424	\$ 13,180			
261	CR	3	PL	West Light Well	1992	32	Site	Lower Level Wall	Segmented Retaining Wall - repair	1992	30	2022	6	2016	Wearing	2	2018	\$ 12,424	\$ 13,180			
262	M	3	EXT	East Parking Lot	1992	32	Site	Ramp	Segmented Retaining Wall - repair	1992	30	2022	6	2016	Wearing	2	2018	\$ 7,099	\$ 7,532			
263	CR	3	PL	East Light Well	1992	32	Site	Upper Level Wall	Segmented Retaining Wall - replace	1992	30	2022	6	2016	Better	20	2036	\$ 133,632	\$ 241,354			
264	CR	3	PL	West Light Well	1992	32	Site	Upper Level Wall	Segmented Retaining Wall - replace	1992	30	2022	6	2016	Better	20	2036	\$ 133,632	\$ 241,354			
265	CR	3	PL	East Light Well	1992	32	Site	Lower Level Wall	Segmented Retaining Wall - replace	1992	30	2022	6	2016	Better	20	2036	\$ 116,928	\$ 211,185			
266	CR	3	PL	West Light Well	1992	32	Site	Lower Level Wall	Segmented Retaining Wall - replace	1992	30	2022	6	2016	Better	20	2036	\$ 116,928	\$ 211,185			
267	CR	3	EXT	East Parking Lot	1992	32	Site	Ramp	Segmented Retaining Wall - replace	1992	30	2022	6	2016	Better	20	2036	\$ 58,464	\$ 105,592			
268	M	3	EXT	North Site Zone	1992	32	Site	North, Exit Stair	Segmented Retaining Wall - replace	1992	40	2032	16	2016	Normal	16	2032	\$ 2,412	\$ 3,870			
269	CR	3	EXT	Entry Paving	1992	32	Site		Sidewalks, concrete - replace, with snow-melt.	2009	25	2034	18	2016	Normal	18	2034	\$ 9,744	\$ 16,589			
270	M	3	EXT	West Parking Lot	1992	32	Site		Storm Drain	1992	30	2022	6	2016	Normal	6	2022	\$ 5,336	\$ 6,371			

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1992										2016								2016	2016	2016
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0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan	
271	CR	2	EXT	Roof	1992	07R	Roof	West	Roof, EPDM Membrane - replace	1992	30	2022	6	2016	Better	8	2024	\$ 506,920	\$ 642,151	
272	CR	2	EXT	Roof	1992	07R	Roof	East	Roof, EPDM Membrane - replace	1992	30	2022	6	2016	Better	8	2024	\$ 487,525	\$ 617,582	
273	CR	2	EXT	Roof	1992	07R	Roof		Gutter & Downspout, aluminum - replace	1992	30	2022	6	2016	Better	8	2024	\$ 10,556	\$ 13,372	
274	CR	2	EXT	Roof	1992	07R	Roof	Center	Roof, standing seam metal - replace	1992	40	2032	16	2016	Wearing	8	2024	\$ 305,521	\$ 387,025	
275	CR	2	EXT	Roof	1992	07R	Roof	Corners	Roof, standing seam metal - replace	1992	40	2032	16	2016	Wearing	8	2024	\$ 42,526	\$ 53,870	
276	CR	2	EXT	Roof	1992	07R	Roof	Parapet	Roof Edge, aluminum - repair	2014	10	2024	8	2016	Normal	8	2024	\$ 18,931	\$ 23,981	
277	CR	2	EXT	Exterior	1992	07R	Roof	Sloped Roof	Roof Edge, aluminum - repair	2014	10	2024	8	2016	Normal	8	2024	\$ 10,718	\$ 13,578	
278	M	2	EXT	Exterior	1992	07W	Windows	East	Windows, Aluminum - replace IGU	1992	25	2017	1	2016	Better	5	2021	\$ 2,017	\$ 2,338	
279	M	2	EXT	Exterior	1992	07W	Windows	North	Windows, Aluminum - replace IGU	1992	25	2017	1	2016	Better	5	2021	\$ 1,705	\$ 1,977	
280	M	2	EXT	Exterior	1992	07W	Windows	West	Windows, Aluminum - replace IGU	1992	25	2017	1	2016	Better	5	2021	\$ 1,664	\$ 1,929	
281	M	2	EXT	Exterior	1992	07W	Windows	South	Windows, Aluminum - replace IGU	1992	25	2017	1	2016	Better	5	2021	\$ 1,096	\$ 1,271	
282	CR	3.H	INT	Ceiling Plenum	1992	23HP	HVAC- Heat Pumps	HPtype6	Heat pump HP-001	2018	20	2038	22	2016	Normal	22	2038	\$ 8,338	\$ 15,976	
283	CR	3.H	INT	Ceiling Plenum	1992	23HP	HVAC- Heat Pumps	HPtype4	Heat pump HP-002	2016	20	2036	20	2016	Normal	20	2036	\$ 8,338	\$ 15,058	
284	CR	3.H	INT	Ceiling Plenum	1992	23HP	HVAC- Heat Pumps	HPtype7	Heat pump HP-003	2017	20	2037	21	2016	Normal	21	2037	\$ 8,338	\$ 15,510	
285	M	3.H	INT	Ceiling Plenum	1992	23HP	HVAC- Heat Pumps	HPtype6	Heat pump HP-004	1992	20	2017	1	2016	Normal	1	2017	\$ 8,338	\$ 8,588	

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286	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-005	2011	20	2031	15	2016	Normal	15	2031	\$ 8,338	\$ 12,990			
287	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-006	2013	20	2033	17	2016	Normal	17	2033	\$ 8,338	\$ 13,781			
288	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-007	1992	20	2017	1	2016	Normal	1	2017	\$ 8,338	\$ 8,588			
289	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-008	2009	20	2029	13	2016	Normal	13	2029	\$ 8,338	\$ 12,244			
290	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-009	1992	20	2017	1	2016	Normal	1	2017	\$ 8,338	\$ 8,588			
291	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-010	1992	20	2017	1	2016	Normal	1	2017	\$ 8,338	\$ 8,588			
292	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-011	1992	20	2017	1	2016	Normal	1	2017	\$ 8,338	\$ 8,588			
293	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-012	1992	20	2017	1	2016	Normal	1	2017	\$ 8,338	\$ 8,588			
294	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-013	1992	20	2017	1	2016	Normal	1	2017	\$ 8,338	\$ 8,588			
295	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-014	1992	20	2017	1	2016	Normal	1	2017	\$ 8,338	\$ 8,588			
296	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-015	1992	20	2017	1	2016	Normal	1	2017	\$ 8,338	\$ 8,588			
297	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-016	2013	20	2033	17	2016	Normal	17	2033	\$ 8,338	\$ 13,781			
298	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-017	1992	20	2018	2	2016	Normal	2	2018	\$ 8,338	\$ 8,845			
299	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-018	2013	20	2033	17	2016	Normal	17	2033	\$ 4,069	\$ 6,725			
300	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-019	2016	20	2036	20	2016	Normal	20	2036	\$ 8,338	\$ 15,058			

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2016															

1992										2016							2016		
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301	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-020	2009	20	2029	13	2016	Normal	13	2029	\$ 4,069	\$ 5,975
302	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-021	1992	20	2018	2	2016	Normal	2	2018	\$ 8,338	\$ 8,845
303	F	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-022	1992	20	2018	2	2016	Normal	2	2018	\$ 8,338	\$ 8,845
304	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-023	2015	20	2035	19	2016	Normal	19	2035	\$ 4,002	\$ 7,018
305	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-024	2014	20	2034	18	2016	Normal	18	2034	\$ 8,338	\$ 14,194
306	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-025	1992	20	2018	2	2016	Normal	2	2018	\$ 8,338	\$ 8,845
307	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-026	1992	20	2018	2	2016	Normal	2	2018	\$ 8,338	\$ 8,845
308	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-027	1992	20	2018	2	2016	Normal	2	2018	\$ 8,338	\$ 8,845
309	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-028	1992	20	2018	2	2016	Normal	2	2018	\$ 8,338	\$ 8,845
310	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-029	1992	20	2018	2	2016	Normal	2	2018	\$ 8,338	\$ 8,845
311	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-030	1992	20	2018	2	2016	Normal	2	2018	\$ 8,338	\$ 8,845
312	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-031	2014	20	2034	18	2016	Normal	18	2034	\$ 8,338	\$ 14,194
313	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-032	1992	20	2018	2	2016	Normal	2	2018	\$ 8,338	\$ 8,845
314	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-033	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
315	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-034	2016	20	2036	20	2016	Normal	20	2036	\$ 8,338	\$ 15,058

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316	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-035	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
317	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-036	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
318	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-037	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
319	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-038	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
320	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-039	1992	20	2019	3	2016	Normal	3	2019	\$ 4,069	\$ 4,446
321	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-040	2011	20	2031	15	2016	Normal	15	2031	\$ 8,338	\$ 12,990
322	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-041	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
323	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-042	2015	20	2035	19	2016	Normal	19	2035	\$ 7,937	\$ 13,918
324	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype4	Heat pump HP-043	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
325	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-044	2013	20	2033	17	2016	Normal	17	2033	\$ 8,338	\$ 13,781
326	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-045	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
327	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-046	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
328	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-047	2011	20	2031	15	2016	Normal	15	2031	\$ 8,338	\$ 12,990
329	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-048	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
330	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-049	2014	20	2034	18	2016	Normal	18	2034	\$ 8,338	\$ 14,194

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331	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype3	Heat pump HP-050	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
332	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype3	Heat pump HP-051	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
333	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-052	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
334	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-053	2014	20	2034	18	2016	Normal	18	2034	\$ 4,069	\$ 6,927
335	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-054	2013	20	2033	17	2016	Normal	17	2033	\$ 8,338	\$ 13,781
336	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-055	1992	20	2019	3	2016	Normal	3	2019	\$ 8,338	\$ 9,111
337	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype3	Heat pump HP-056	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384
338	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-057	2013	20	2033	17	2016	Normal	17	2033	\$ 8,338	\$ 13,781
339	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype3	Heat pump HP-058	2016	20	2036	20	2016	Normal	20	2036	\$ 8,338	\$ 15,058
340	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-059	2012	20	2032	16	2016	Normal	16	2032	\$ 8,338	\$ 13,379
341	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-060	2013	20	2033	17	2016	Normal	17	2033	\$ 4,069	\$ 6,725
342	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-061	2012	20	2032	16	2016	Normal	16	2032	\$ 8,338	\$ 13,379
343	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-062	2011	20	2031	15	2016	Normal	15	2031	\$ 8,338	\$ 12,990
344	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-063	2010	20	2030	14	2016	Normal	14	2030	\$ 8,338	\$ 12,611
345	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-064	1992	20	2020	4	2016	Normal	4	2020	\$ 4,069	\$ 4,579

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346	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-065	1992	20	2020	4	2016	Normal	4	2020	\$ 4,069	\$ 4,579	
347	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-066	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	
348	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype4	Heat pump HP-067	2014	8	2022	6	2016	Normal	6	2022	\$ 2,668	\$ 3,186	
349	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype3	Heat pump HP-068	2016	20	2036	20	2016	Normal	20	2036	\$ 6,670	\$ 12,047	
350	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-069	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	
351	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-070	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	
352	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-071	2009	20	2029	13	2016	Normal	13	2029	\$ 4,069	\$ 5,975	
353	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-072	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	
354	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-073	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	
355	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-074	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	
356	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-075	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	
357	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-076	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	
358	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-077	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	
359	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-078	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	
360	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-079	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384	

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															U≠R

1992										2016								2016		2016	
Key Sort			Location and Category					Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data						
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG		
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan		
361	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-080	2009	20	2029	13	2016	Normal	13	2029	\$ 8,338	\$ 12,244		
362	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-081	1992	20	2020	4	2016	Normal	4	2020	\$ 8,338	\$ 9,384		
363	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-082	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665		
364	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-083	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665		
365	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-084	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665		
366	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-085	2011	20	2031	15	2016	Normal	15	2031	\$ 8,338	\$ 12,990		
367	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-086	2007	20	2027	11	2016	Normal	11	2027	\$ 8,338	\$ 11,541		
368	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-087	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665		
369	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-088	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665		
370	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-089	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665		
371	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-090	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665		
372	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-091	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665		
373	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype4	Heat pump HP-092	2017	20	2037	21	2016	Normal	21	2037	\$ 8,338	\$ 15,510		
374	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-093	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665		
375	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-094	2011	20	2031	15	2016	Normal	15	2031	\$ 8,338	\$ 12,990		

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1992										2016							2016	2016	2016
Key Sort		Location and Category						Initial Product Data/Life Expectancy				Evaluated Condition			Opinion of Estimated Cost Data				
A	B	C	D	E	F	G	H	I	J	O	P	Q	R	S	T	U	Y	AF	AG
0	Budget Category	Priority	Location	Room Number or Area / Zone	Building, Addition or Renovate	CSI#	System	System Location	Component	Installed Date	Planned Service Life	Replace Year - Theory	Remain'g Life - Theory	Evaluate Year	Condition	Remain'g Life - Evaluated	Budget Year - Plan	Adjusted Cost this year	Escalated Cost at Budget Year - Plan
376	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-095	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665
377	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-096	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665
378	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-097	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665
379	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-098	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665
380	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-099	1992	20	2021	5	2016	Normal	5	2021	\$ 8,338	\$ 9,665
381	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-100	1992	20	2021	5	2016	Normal	5	2021	\$ 11,339	\$ 13,145
382	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-101	1992	20	2021	5	2016	Normal	5	2021	\$ 11,339	\$ 13,145
383	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-102	2014	20	2034	18	2016	Normal	18	2034	\$ 4,069	\$ 6,927
384	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-103	1992	20	2021	5	2016	Normal	5	2021	\$ 4,069	\$ 4,717
385	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-104	2016	20	2036	20	2016	Normal	20	2036	\$ 15,675	\$ 28,310
386	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-105	1992	20	2021	5	2016	Normal	5	2021	\$ 15,675	\$ 18,171
387	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-106	1992	20	2021	5	2016	Normal	5	2021	\$ 5,003	\$ 5,799
388	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-107	2008	20	2028	12	2016	Normal	12	2028	\$ 5,003	\$ 7,132
389	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype3	Heat pump HP-108	2014	20	2034	18	2016	Normal	18	2034	\$ 6,603	\$ 11,242
390	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype3	Heat pump HP-109	1992	20	2021	5	2016	Normal	5	2021	\$ 6,603	\$ 7,655

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391	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-110	1992	20	2021	5	2016	Normal	5	2021	\$ 15,675	\$ 18,171	
392	F	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-111	1992	20	2022	6	2016	Normal	6	2022	\$ 4,069	\$ 4,858	
393	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-112	1992	20	2022	6	2016	Normal	6	2022	\$ 15,675	\$ 18,716	
394	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-113	1992	20	2022	6	2016	Normal	6	2022	\$ 15,675	\$ 18,716	
395	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-114	1992	20	2022	6	2016	Normal	6	2022	\$ 15,675	\$ 18,716	
396	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-115	1992	20	2022	6	2016	Normal	6	2022	\$ 15,675	\$ 18,716	
397	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-116	1992	20	2022	6	2016	Normal	6	2022	\$ 11,339	\$ 13,539	
398	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-117	2017	20	2037	21	2016	Normal	21	2037	\$ 13,007	\$ 24,196	
399	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype4	Heat pump HP-118	2014	20	2034	18	2016	Normal	18	2034	\$ 7,804	\$ 13,286	
400	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-119	1992	20	2022	6	2016	Normal	6	2022	\$ 4,069	\$ 4,858	
401	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-120	2014	20	2034	18	2016	Normal	18	2034	\$ 8,338	\$ 14,194	
402	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype3	Heat pump HP-121	2016	20	2036	20	2016	Normal	20	2036	\$ 6,603	\$ 11,926	
403	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype3	Heat pump HP-122	1992	20	2022	6	2016	Normal	6	2022	\$ 6,603	\$ 7,885	
404	F	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype3	Heat pump HP-123	1992	20	2022	6	2016	Normal	6	2022	\$ 6,603	\$ 7,885	
405	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-124	2008	20	2028	12	2016	Normal	12	2028	\$ 15,675	\$ 22,348	

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406	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype8	Heat pump HP-125	1992	20	2022	6	2016	Normal	6	2022	\$ 15,675	\$ 18,716	
407	F	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype6	Heat pump HP-126	1992	20	2022	6	2016	Normal	6	2022	\$ 11,339	\$ 13,539	
408	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-127	2010	20	2030	14	2016	Normal	14	2030	\$ 8,338	\$ 12,611	
409	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-128	2007	20	2027	11	2016	Normal	11	2027	\$ 5,003	\$ 6,925	
410	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-129	1992	20	2022	6	2016	Normal	6	2022	\$ 5,003	\$ 5,973	
411	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-130	1992	20	2022	6	2016	Normal	6	2022	\$ 5,003	\$ 5,973	
412	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype2	Heat pump HP-131	1992	20	2022	6	2016	Normal	6	2022	\$ 5,003	\$ 5,973	
413	M	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype1	Heat pump HP-132	1992	20	2022	6	2016	Normal	6	2022	\$ 4,069	\$ 4,858	
414	F	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-133	1992	20	2022	6	2016	Normal	6	2022	\$ 8,338	\$ 9,955	
415	F	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype5	Heat pump HP-134	1992	20	2022	6	2016	Normal	6	2022	\$ 8,338	\$ 9,955	
416	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-135	1992	20	2022	6	2016	Normal	6	2022	\$ 13,007	\$ 15,530	
417	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-136	1992	20	2022	6	2016	Normal	6	2022	\$ 13,007	\$ 15,530	
418	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-137	1992	20	2022	6	2016	Normal	6		\$ -		
419	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps	HPtype7	Heat pump HP-138	1992	20	2022	6	2016	Normal	6		\$ -		
420	CR	3.H	INT	Ceiling Plenum	1992	23H P	HVAC- Heat Pumps		Heat pump HP-139	1992	20	2022	6	2016	Normal	6				