

GRANVILLE EXEMPTED VILLAGE SCHOOL DISTRICT



PERMANENT IMPROVEMENT COST ASSESSMENT

COMPLETED IN COLLABORATION WITH



GRANVILLE EXEMPTED VILLAGE SCHOOL DISTRICT



Granville Exempted Village School District 20 Year Permanent Improvement Cost Assessment

The objective of this report was to assess the facilities across the district in order to gain a perspective of the cost to maintain the district's assets over the next twenty years. This information can then be used to assist in formulating a strategy for the funding of these permanent improvements.

The process for this assessment was completed in collaboration with the district administration and maintenance staff. The process began by completing an inventory of district structures, grounds and equipment. This information was then analyzed for life expectancy and replacement cost.

Athletic facilities and district furnishings were not a part of this study at the district's request. The custodial equipment is supplied to the district as part of their custodial services contract and were not included in the assessment.

The lifecycle and replacement cost were gathered from multiple sources. These sources include the Ohio School Facilities Assessment Guidelines, vendor quotes, state term pricing contracts and online pricing information.

The replacement cost projections are in today's dollars. These costs will need to be adjusted to account for inflation over the 20 year life of this analysis. While lifecycle costing was used for this assessment, the district will need to continue their program of preventative maintenance to gain as much useful life out of their assets as possible.

K-12

GRANVILLE EXEMPTED VILLAGE SCHOOL DISTRICT PERMANENT IMPROVEMENT 20 YEAR COST SUMMARY

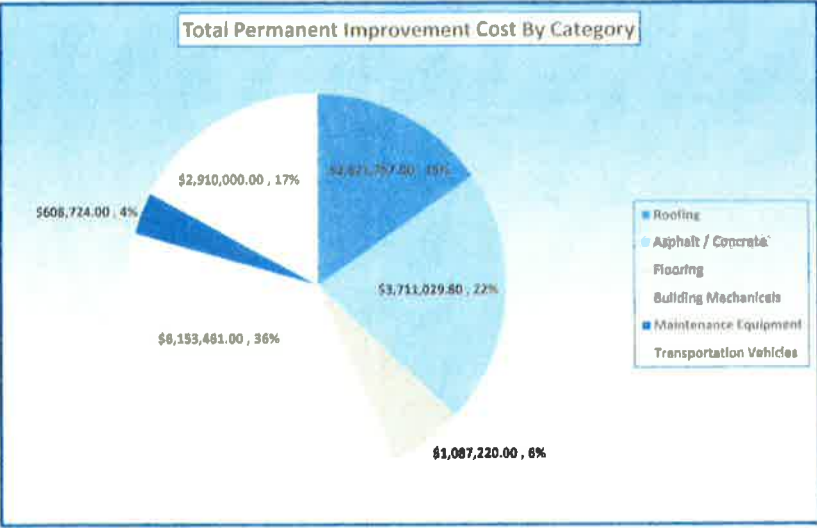
Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Roofing	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088
Asphalt / Concrete	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551
Flooring	\$ 52,111	\$ 52,111	\$ 52,111	\$ 67,111	\$ 52,111	\$ 52,111	\$ 52,111	\$ 52,111	\$ 52,111	\$ 52,111
Building Mechanicals	\$ 241,417	\$ 310,427	\$ 260,472	\$ 315,252	\$ 237,930	\$ 331,086	\$ 225,570	\$ 481,713	\$ 436,961	\$ 299,405
Maintenance Equipment	\$ 32,000	\$ 74,000	\$ 32,000	\$ 49,176	\$ -	\$ 19,772	\$ 13,300	\$ 9,295	\$ -	\$ 27,800
Transportation Vehicles	\$ 485,000	\$ 125,000	\$ 180,000	\$ -	\$ -	\$ 360,000	\$ 180,000	\$ 450,000	\$ 180,000	\$ 360,000
Total	\$ 1,127,167	\$ 878,177	\$ 841,222	\$ 748,178	\$ 606,680	\$ 1,079,608	\$ 787,620	\$ 1,309,758	\$ 985,711	\$ 1,055,955

Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Roofing	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088	\$ 131,088
Asphalt / Concrete	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551	\$ 185,551
Flooring	\$ 67,111	\$ 52,111	\$ 52,111	\$ 67,111	\$ 52,111	\$ 52,111	\$ 52,111	\$ 52,111	\$ 52,111	\$ 52,111
Building Mechanicals	\$ 227,630	\$ 303,010	\$ 238,960	\$ 301,465	\$ 229,175	\$ 315,252	\$ 243,477	\$ 318,857	\$ 353,687	\$ 481,715
Maintenance Equipment	\$ 23,388	\$ 17,850	\$ -	\$ 59,676	\$ 53,300	\$ 17,272	\$ 87,300	\$ 35,295	\$ 32,000	\$ 25,300
Transportation Vehicles	\$ -	\$ -	\$ 125,000	\$ 35,000	\$ -	\$ 125,000	\$ 125,000	\$ 180,000	\$ -	\$ -
Total	\$ 634,768	\$ 689,610	\$ 732,710	\$ 779,891	\$ 651,225	\$ 826,274	\$ 824,527	\$ 902,902	\$ 754,437	\$ 875,765

Description	20 Year Total
Roofing	\$ 2,621,757.00
Asphalt / Concrete	\$ 3,711,029.80
Flooring	\$ 1,087,220.00
Building Mechanicals	\$ 6,153,461.00
Maintenance Equipment	\$ 608,724.00
Transportation Vehicles	\$ 2,910,000.00
Total	\$ 17,092,191.80



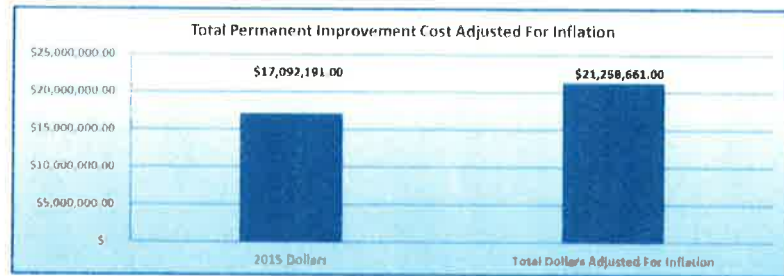
GRANVILLE EXEMPTED VILLAGE SCHOOL DISTRICT PERMANENT IMPROVEMENT 20 YEAR COST SUMMARY



INFLATIONARY IMPACT ON PERMANENT IMPROVEMENT COST 20 Years

	2015 Cost	2016 Cost	2017 Cost	2018 Cost	2019 Cost	2020 Cost	2021 Cost	2022 Cost	2023 Cost	2024 Cost
2015	\$ 1,127,167									
2016	\$ 878,177	\$ 898,175								
2017	\$ 841,222	\$ 860,570	\$ 880,363							
2018	\$ 748,178	\$ 765,386	\$ 782,990	\$ 800,999						
2019	\$ 606,680	\$ 620,634	\$ 634,908	\$ 649,511	\$ 664,450					
2020	\$ 1,079,608	\$ 1,104,439	\$ 1,129,841	\$ 1,155,827	\$ 1,182,411	\$ 1,209,807				
2021	\$ 787,620	\$ 805,735	\$ 824,267	\$ 843,225	\$ 862,619	\$ 882,460	\$ 902,756			
2022	\$ 1,309,758	\$ 1,339,882	\$ 1,370,700	\$ 1,402,226	\$ 1,434,477	\$ 1,467,470	\$ 1,501,222	\$ 1,535,750		
2023	\$ 985,711	\$ 1,008,382	\$ 1,031,575	\$ 1,055,301	\$ 1,079,573	\$ 1,104,403	\$ 1,129,805	\$ 1,155,790	\$ 1,182,373	
2024	\$ 1,055,955	\$ 1,080,242	\$ 1,105,088	\$ 1,130,505	\$ 1,156,506	\$ 1,183,106	\$ 1,210,317	\$ 1,238,155	\$ 1,266,632	\$ 1,295,788
2025	\$ 634,768	\$ 649,368	\$ 664,303	\$ 679,582	\$ 695,212	\$ 711,202	\$ 727,560	\$ 744,294	\$ 761,413	\$ 778,925
2026	\$ 689,610	\$ 705,471	\$ 721,697	\$ 738,296	\$ 755,277	\$ 772,648	\$ 790,419	\$ 808,599	\$ 827,196	\$ 846,222
2027	\$ 732,710	\$ 749,562	\$ 766,802	\$ 784,439	\$ 802,481	\$ 820,938	\$ 839,819	\$ 859,135	\$ 878,895	\$ 899,110
2028	\$ 779,891	\$ 797,828	\$ 816,179	\$ 834,951	\$ 854,155	\$ 873,800	\$ 893,897	\$ 914,457	\$ 935,490	\$ 957,006
2029	\$ 851,225	\$ 866,203	\$ 881,526	\$ 897,201	\$ 913,237	\$ 929,641	\$ 946,423	\$ 963,590	\$ 981,153	\$ 999,120
2030	\$ 826,274	\$ 845,278	\$ 864,720	\$ 884,608	\$ 904,954	\$ 925,768	\$ 947,061	\$ 968,843	\$ 991,127	\$ 1,013,923
2031	\$ 824,527	\$ 843,491	\$ 862,891	\$ 882,738	\$ 903,041	\$ 923,811	\$ 945,058	\$ 966,795	\$ 989,031	\$ 1,011,779
2032	\$ 902,902	\$ 923,669	\$ 944,913	\$ 966,646	\$ 988,879	\$ 1,011,623	\$ 1,034,891	\$ 1,058,693	\$ 1,083,043	\$ 1,107,953
2033	\$ 754,437	\$ 771,789	\$ 789,540	\$ 807,700	\$ 826,277	\$ 845,281	\$ 864,723	\$ 884,611	\$ 904,957	\$ 925,771
2034	\$ 875,765	\$ 895,908	\$ 916,513	\$ 937,593	\$ 959,158	\$ 981,219	\$ 1,003,787	\$ 1,026,874	\$ 1,050,492	\$ 1,074,653

	2025 Cost	2026 Cost	2027 Cost	2028 Cost	2029 Cost	2030 Cost	2031 Cost	2032 Cost	2033 Cost	2034 Cost
2015										
2016										
2017										
2018										
2019										
2020										
2021										
2022										
2023										
2024										
2025	\$ 786,860									
2026	\$ 865,685	\$ 885,596								
2027	\$ 919,290	\$ 940,945	\$ 962,586							
2028	\$ 979,017	\$ 1,001,534	\$ 1,024,570	\$ 1,048,135						
2029	\$ 817,499	\$ 836,302	\$ 855,537	\$ 875,214	\$ 895,344					
2030	\$ 1,037,243	\$ 1,061,099	\$ 1,085,505	\$ 1,110,471	\$ 1,136,012	\$ 1,162,140				
2031	\$ 1,035,050	\$ 1,058,856	\$ 1,083,210	\$ 1,108,123	\$ 1,133,610	\$ 1,159,683	\$ 1,186,350			
2032	\$ 1,133,436	\$ 1,159,505	\$ 1,186,174	\$ 1,213,455	\$ 1,241,365	\$ 1,269,916	\$ 1,299,124	\$ 1,329,004		
2033	\$ 947,064	\$ 968,846	\$ 991,130	\$ 1,013,926	\$ 1,037,246	\$ 1,061,103	\$ 1,085,508	\$ 1,110,475	\$ 1,136,016	
2034	\$ 1,099,370	\$ 1,124,656	\$ 1,150,523	\$ 1,176,985	\$ 1,204,055	\$ 1,231,749	\$ 1,260,079	\$ 1,289,061	\$ 1,318,709	\$ 1,349,089



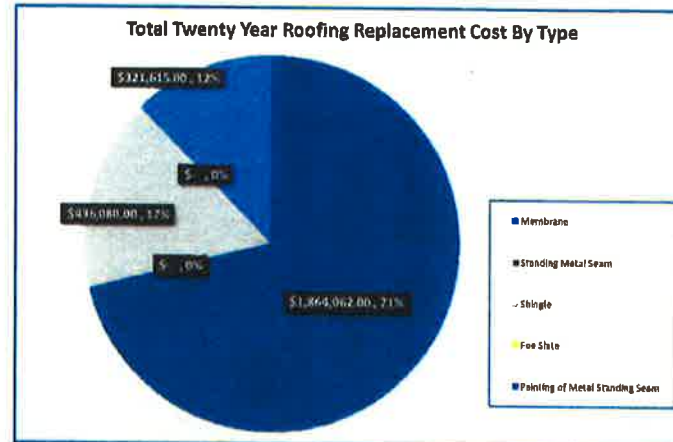
ROOFING

Type of Roofing	Total Square Feet	Replacement Cost Per Square Foot	Yearly Average Square Footage to be Replaced	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Membrane	214,259	\$ 8.70	10,713	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10
Standing Metal Seam	178,893	\$ 16.50	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Shingle	145,356	\$ 3.00	7,268	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00
Foe Slate	2,560	\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Painting of Metal Standing Seam	N/A	\$ 2.25	7,147	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75
Total	541,068			\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85

Type of Roofing	Total Square Feet	Replacement Cost Per Square Foot	Yearly Average Square Footage to be Replaced	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Membrane	214,259	\$ 8.70	10,713	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10	\$ 93,203.10
Standing Metal Seam	178,893	\$ 16.50	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Shingle	145,356	\$ 3.00	7,268	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00	\$ 21,804.00
Foe Slate	2,560	\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Painting of Metal Standing Seam	N/A	\$ 2.25	7,147	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75	\$ 16,080.75
Total	541,068			\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85	\$ 131,087.85

ROOFING

- The district has over 541,000 square feet of roofing in the district.
- The roofing is made up of various types of Membrane Roofing, Metal Standing Seam, Shingle and Foe Slate.
- The Standing Metal Seam and Foe Slate shingles have a life expectancy that exceeds 20 years and will not need to be replaced during the assessment period.
- Due to changes in staffing and record keeping, the installation years of most of the roofing has been difficult to identify. Absent installation timeframes we have used an equal yearly replacement cost for all roofing that has a life expectancy of twenty years or less. While there may not be roofing replacements scheduled in each fiscal year this method will allow a yearly cost for budgetary planning.
- Metal Standing Seam roofing needs to be painted at around 25 years. Repainting 80% of the Metal Standing Seam is included in the assessment.



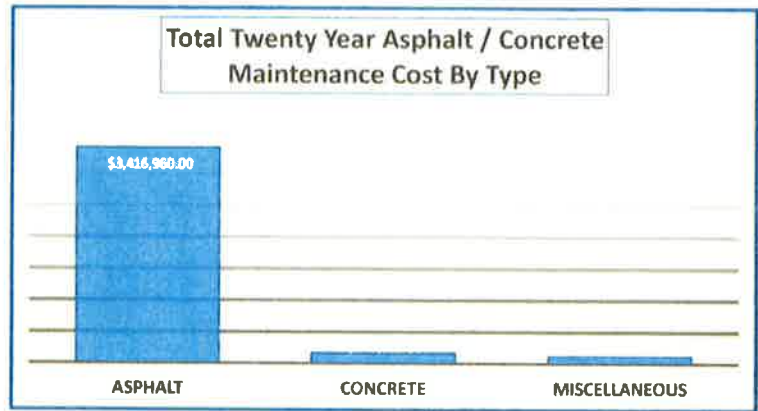
ASPHALT / CONCRETE

Type	Total Square Yards	Square Yards / Feet To Be Replaced Yearly	Replacement Cost Per Square Yard / feet	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asphalt	89,925.00	8,992.00	\$ 19.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00
Concrete	54,632.00	1,821.00	\$ 4.69	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49
Miscellaneous	N/A	N/A	N/A	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00
Total Yearly Cost				\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49

Type	Total Square Yards	Square Yards / Feet To Be Replaced Yearly	Replacement Cost Per Square Yard / feet	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Asphalt	89,925.00	8,992.00	\$ 19.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00	\$ 170,848.00
Concrete	54,632.00	1,821.00	\$ 4.69	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49	\$ 8,540.49
Miscellaneous	N/A	N/A	N/A	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00	\$ 6,163.00
Total Yearly Cost				\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49	\$ 185,551.49

Asphalt / Concrete

- A 10 year replacement cycle was used for asphalt
- The maintenance consists of a grind down and recoat of the existing asphalt
- The district does not currently seal coat the asphalt
- A 30 year replacement cycle was used for the concrete
- The miscellaneous category total is 3% of the asphalt and concrete replacement cost. This category would be used for any temporary repairs such as pothole patching between replacement cycles and for any areas that require base repairs beyond the grind down and recoat of the existing asphalt.



FLOORING

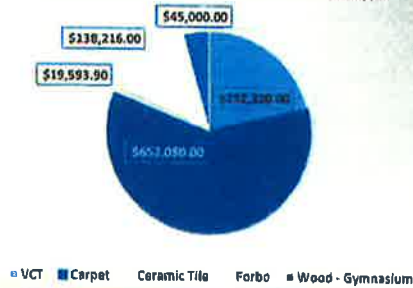
Type of Flooring	Life Expectancy	Total Square Feet	Square Feet To Be Replaced Yearly	Replacement Cost	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
VCT	30	116,165	9,872	\$ 3.00	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50
Carpet	10	100,896	9,872	\$ 6.50	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00
Ceramic Tile	20	4,779	239	\$ 4.10	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70
Forbo	20	21,264	1,063	\$ 6.50	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80
Wood - Gymnasium	N/A	N/A	N/A	N/A	\$ -	\$ 15,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Totals					\$ 52,111.00	\$ 52,111.00	\$ 52,111.00	\$ 67,111.00	\$ 52,111.00	\$ 52,111.00	\$ 52,111.00	\$ 52,111.00	\$ 52,111.00	\$ 52,111.00

Type of Flooring	Life Expectancy	Total Square Feet	Square Feet To Be Replaced Yearly	Replacement Cost	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
VCT	30	116,165	9,872	\$ 3.00	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50	\$ 11,616.50
Carpet	10	100,896	9,872	\$ 6.50	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00	\$ 32,604.00
Ceramic Tile	20	4,779	239	\$ 4.10	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70	\$ 979.70
Forbo	20	21,264	1,063	\$ 6.50	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80	\$ 6,910.80
Wood - Gymnasium	N/A	N/A	N/A	N/A	\$ 15,000.00	\$ -	\$ -	\$ 15,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Totals					\$ 67,111.00	\$ 52,111.00	\$ 52,111.00	\$ 67,111.00	\$ 52,111.00	\$ 52,111.00	\$ 52,111.00	\$ 52,111.00	\$ 52,111.00	\$ 52,111.00

Flooring

- VCT is scheduled to have 1/30 replaced yearly based on a 30 year life expectancy
- Carpet is scheduled to be replaced by Forbo over the 20 year assessment period. The replacement cost for carpet listed is actually the Forbo replacement cost.
- Ceramic Tile and Forbo is scheduled to have 1/20 replaced based on a twenty year life expectancy
- The wood floors listed are gymnasium floors. The high school floor was replaced and finished this year. This assessment includes a sanding, painting and recoating of the High School Floor once and the middle school twice during the assessment period.

Total 20 Year Flooring Replacement Cost By Type



MECHANICAL EQUIPMENT REPLACEMENT / REPAIRS

System/Equipment	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Fire Sprinkler Riser Valve					\$ 10,000.00					
Fire Pump Replacement - GIS									\$ 200,000.00	
Cooling Tower Replacement										
Chiller Replacement								\$ 175,000.00		
Domestic Hot Water Heaters	\$ 15,386.00	\$ 15,386.00	\$ 15,386.00	\$ 15,386.00		\$ 27,259.00			\$ 7,560.00	
Domestic Hot Water Storage Tank Replacements			\$ 3,500.00			\$ 3,500.00			\$ 3,500.00	
Split DX Replacements		\$ 2,000.00			\$ 2,000.00			\$ 2,000.00		
Furnace Replacements - District Office				\$ 6,500.00		\$ 6,500.00		\$ 6,500.00		\$ 6,500.00
Ductwork/GMS Gym			\$ 15,000.00							
Boiler Replacements		\$ 65,000.00		\$ 65,000.00		\$ 65,000.00		\$ 65,000.00		\$ 65,000.00
Roof Top Unit Replacements	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00
Roof Top Unit Repairs	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00
Plumbing Repairs	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00
Electrical Repairs	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00
Pump Replacement / Repair	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00
Electric Motor Repair	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00
Painting	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
Miscellaneous	\$ 7,031.00	\$ 9,041.00	\$ 7,585.00	\$ 9,366.00	\$ 6,930.00	\$ 9,827.00	\$ 6,570.00	\$ 14,213.00	\$ 6,901.00	\$ 8,905.00
Total	\$ 241,417.00	\$ 310,427.00	\$ 260,472.00	\$ 315,252.00	\$ 297,980.00	\$ 331,086.00	\$ 225,570.00	\$ 481,713.00	\$ 436,961.00	\$ 299,405.00

System/Equipment	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Fire Sprinkler Riser Valve										
Fire Pump Replacement - GIS										
Cooling Tower Replacement									\$ 109,000.00	
Chiller Replacement										\$ 175,000.00
Domestic Hot Water Heaters			\$ 13,000.00			\$ 15,386.00	\$ 15,386.00	\$ 15,386.00	\$ 15,386.00	
Domestic Hot Water Storage Tank Replacements		\$ 3,500.00			\$ 3,500.00			\$ 3,500.00		
Split DX Replacements	\$ 2,000.00			\$ 2,000.00			\$ 2,000.00			\$ 2,000.00
Furnace Replacements - District Office		\$ 6,500.00		\$ 6,500.00		\$ 6,500.00		\$ 6,500.00		\$ 6,500.00
Ductwork/GMS Gym										
Boiler Replacements		\$ 65,000.00		\$ 65,000.00		\$ 65,000.00		\$ 65,000.00		\$ 65,000.00
Roof Top Unit Replacements	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00	\$ 140,000.00
Roof Top Unit Repairs	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00
Plumbing Repairs	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00
Electrical Repairs	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00
Pump Replacement / Repair	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00
Electric Motor Repair	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00
Painting	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
Miscellaneous	\$ 6,630.00	\$ 9,010.00	\$ 6,960.00	\$ 8,965.00	\$ 6,675.00	\$ 9,366.00	\$ 7,091.00	\$ 9,471.00	\$ 10,301.00	\$ 14,215.00
Total	\$ 227,630.00	\$ 309,010.00	\$ 238,960.00	\$ 301,465.00	\$ 229,175.00	\$ 315,252.00	\$ 249,477.00	\$ 318,857.00	\$ 353,687.00	\$ 481,715.00

MECHANICAL EQUIPMENT REPLACEMENT / REPAIRS

Mechanical Equipment

- A 15 year life expectancy was used for the domestic hot water heaters
- A 20 year life expectancy was used for the chillers - Chiller replacements in 2022 and 2034 significantly increase costs in each year
- The cooling tower has been replaced recently and is scheduled to be replaced again in 2033
- The fire pump at GIS is scheduled for a complete replacement in 2023. This replacement would consist of all components including the housing. This cost can be decreased at the time of replacement if the housing is solid and the major components can be rebuilt rather than a complete replacement
- Roof top unit cost consist of the replacement of two roof top units per year



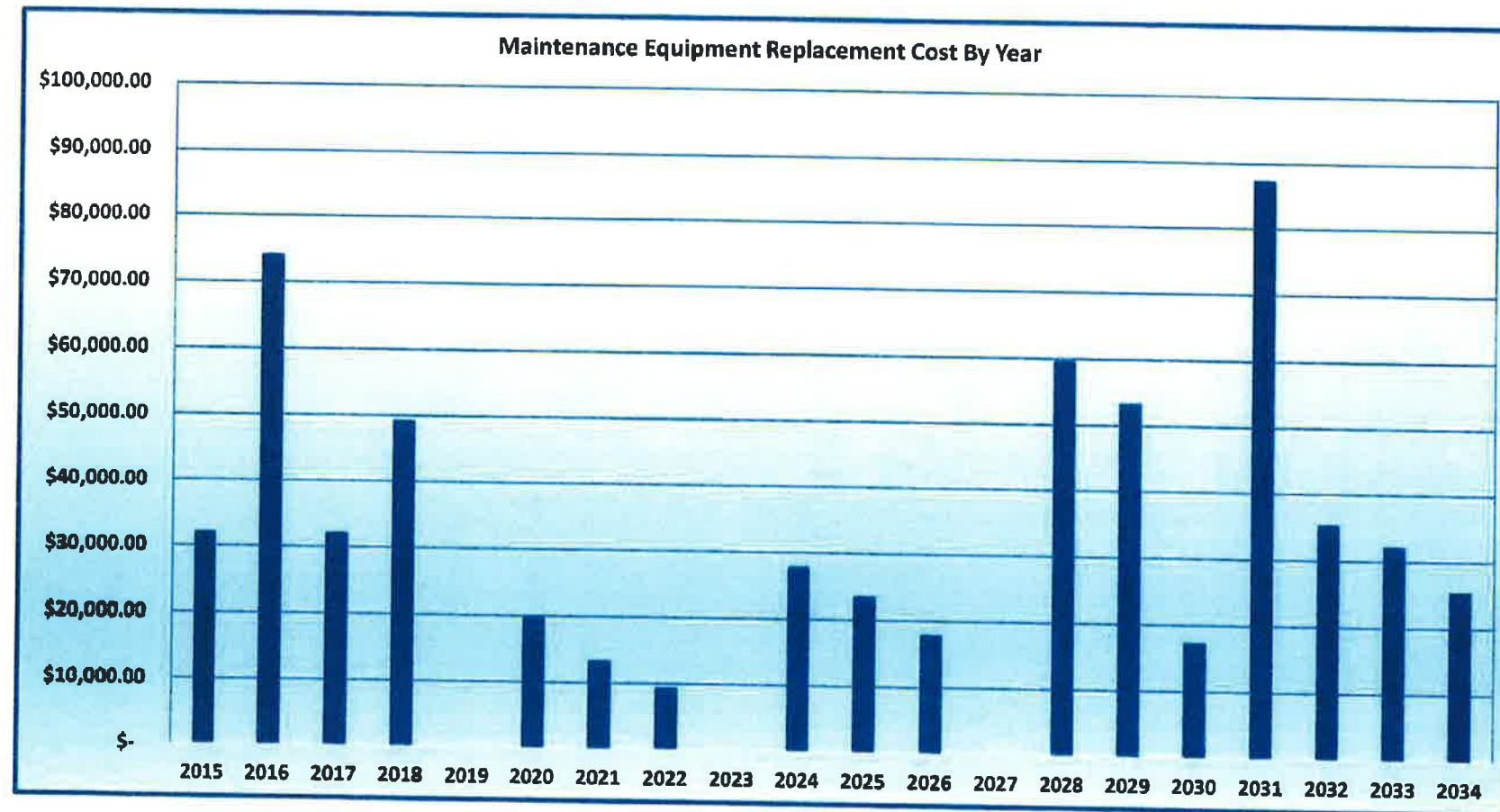
MAINTENANCE EQUIPMENT

Item Number	Description	Year	Replacement Cost	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
DTruck-1	Black Dumptruck	2009	\$ 47,000.00		\$ 47,000.00								
John Deere	Utility Tractor	2015	\$ 32,000.00										
John Deere Pallet Forks	Forks	2015	\$ 964.00										
John Deere Broom	Broom	2015	\$ 4,669.00										
John Deere Bucket	Bucket	2015	\$ 8,900.00										
John Deere Fertilizer Spreader	Fertilizer	2015	\$ 1,037.00										
Pickup-2013	white flatbed	2013	\$ 40,000.00										
Pickup-21	Green Pickup	1999	\$ 32,000.00	\$ 32,000.00									
Pickup-28	White Pickup	1999	\$ 32,000.00		\$ 32,000.00								
Pickup-69	Gray Pickup	2003	\$ 32,000.00			\$ 32,000.00							
Pickup-GMC		2000	\$ 32,000.00	\$ 32,000.00									
Sprayer-R1	Riding Sprayer	2014	\$ 12,000.00										
Sprayer-W1	Walk Behind Sprayer		\$ 3,295.00								\$ 3,295.00		\$ 12,000.00
Tractor-CB1	Cub Cadet Tractor	year 2009	\$ 21,300.00								\$ 3,295.00		
ZT-60	zero turn 60 inch	2013	\$ 13,300.00				\$ 13,300.00						
zt-6014	zero turn 60 inch	2014	\$ 13,300.00							\$ 13,300.00			
ZT-66	Zero Turn 66 Inch		\$ 13,300.00										\$ 13,300.00
Water Wheel			\$ 2,500.00						\$ 2,500.00				\$ 13,300.00
Water Wheel			\$ 2,500.00								\$ 2,500.00		
Water Wheel			\$ 2,500.00									\$ 2,500.00	
Water Wheel			\$ 2,500.00										\$ 2,500.00
Water Wheel			\$ 2,500.00										
Drop Spreader		2006	\$ 1,100.00										
Salt Spreader			\$ 16,694.00						\$ 16,694.00				
Salt Spreader			\$ 16,694.00										
Chain Saw Husqvarna			\$ 329.00										
Woods 90" Mower Deck			\$ 3,500.00								\$ 3,500.00		
Batwing Mower Deck			\$ 14,250.00										
Troybilt Push Mower 6.75			\$ 289.00						\$ 289.00				
Toro Push Mower			\$ 289.00						\$ 289.00				
Snow Blade		2013	\$ 3,876.00										
Snow Blade		2003	\$ 3,876.00							\$ 3,876.00			
Snow Blade		2011	\$ 3,876.00				\$ 3,876.00						
Total				\$ 32,000.00	\$ 76,000.00	\$ 32,000.00	\$ 49,176.00	\$ -	\$ 19,772.00	\$ 13,300.00	\$ 9,295.00	\$ -	\$ 27,800.00

MAINTENANCE EQUIPMENT

Item Number	Description	Year	Replacement Cost	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
OTruck-1	Black Dumptruck	2003	\$ 42,000.00							\$ 42,000.00			
John Deere	Utility Tractor	2015	\$ 32,000.00										
John Deere	Forks	2015	\$ 594.00										
John Deere Broom	Broom	2015	\$ 4,669.00	\$ 4,669.00									
John Deere Bucket	Bucket	2015	\$ 3,900.00										
John Deere	Fertilizer spreader	2015	\$ 3,037.00										
Pickup-2013	white flatbed	2013	\$ 40,000.00				\$ 40,000.00						
Pickup-21	Green Pickup	1999	\$ 32,000.00					\$ 32,000.00					
Pickup-28	White Pickup	1999	\$ 32,000.00										
Pickup-89	Gray Pickup	2003	\$ 32,000.00								\$ 32,000.00		
Pickup-GMC		2000	\$ 32,000.00									\$ 32,000.00	
Sprayer-R1	Riding Sprayer	2014	\$ 12,000.00							\$ 12,000.00			
Sprayer-W1	Walk Behind Sprayer		\$ 3,295.00										\$ 12,000.00
Tractor-OB1	Cub Cadet Tractor	year 2009	\$ 21,300.00					\$ 21,300.00			\$ 3,295.00		
ZT-60	Zero Turn 60 Inch deck	2013	\$ 13,300.00				\$ 13,300.00						
zt-6014	zero turn 60 Inch	2014	\$ 13,300.00										
ZT-66	Zero Turn 66 Inch		\$ 13,300.00							\$ 13,300.00			
Water Wheel			\$ 2,500.00										\$ 13,300.00
Water Wheel			\$ 2,500.00										
Water Wheel			\$ 2,500.00										
Water Wheel			\$ 2,500.00										
Water Wheel			\$ 2,500.00		\$ 2,500.00								
Water Wheel			\$ 2,500.00				\$ 2,500.00						
Drop Spreader		2006	\$ 1,100.00		\$ 1,100.00								
Salt Spreader			\$ 16,694.00						\$ 16,694.00				
Salt Spreader			\$ 16,694.00	\$ 16,694.00									
Chain Saw Husqvarna			\$ 329.00	\$ 2,025.00									
Woods 60" Mower Deck			\$ 3,500.00										
Bahwing Mower Deck			\$ 14,250.00	\$ 14,250.00									
Troybilt Push Mower 6.75			\$ 289.00										
Toro Push Mower			\$ 289.00						\$ 289.00				
Snow Blade			\$ 3,876.00						\$ 289.00				
Snow Blade		2013	\$ 3,876.00				\$ 3,876.00						
Snow Blade		2003	\$ 3,876.00										
Snow Blade		2011	\$ 3,876.00	\$ 3,876.00									
Total				\$ 29,888.00	\$ 17,850.00	\$ -	\$ 59,676.00	\$ 93,800.00	\$ 17,272.00	\$ 87,300.00	\$ 35,288.00	\$ 32,000.00	\$ 25,300.00

MAINTENANCE EQUIPMENT



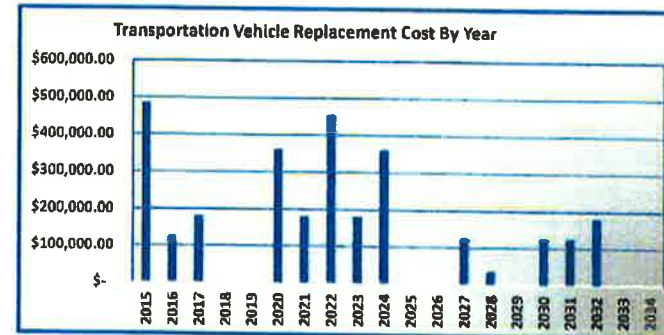
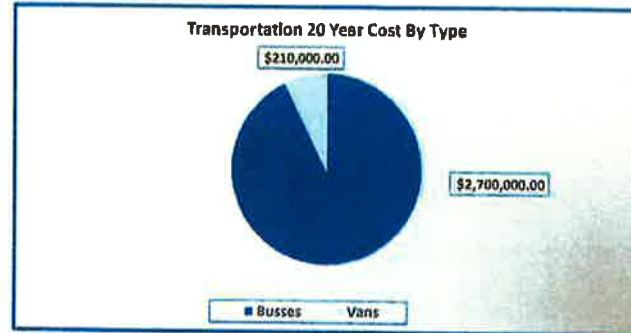
TRANSPORTATION VEHICLES

Type of Vehicle	Average Replacement Cost	2015	2015	2016	2016	2017	2017	2018	2018	2019	2019
Buses	\$ 90,000.00	5	\$ 450,000.00	1	\$ 90,000.00	2	\$ 180,000.00	0	\$ -	0	\$ -
Passenger Vans	\$ 35,000.00	1	\$ 35,000.00	1	\$ 35,000.00	0	\$ -	0	\$ -	0	\$ -
Total			\$ 485,000.00		\$ 125,000.00		\$ 180,000.00		\$ -		\$ -

Type of Vehicle	Average Replacement Cost	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024
Buses	\$ 90,000.00	4	\$ 360,000.00	2	\$ 180,000.00	5	\$ 450,000.00	2	\$ 180,000.00	4	\$ 360,000.00
Passenger Vans	\$ 35,000.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -
Total			\$ 360,000.00		\$ 180,000.00		\$ 450,000.00		\$ 180,000.00		\$ 360,000.00

Type of Vehicle	Average Replacement Cost	2025	2025	2026	2026	2027	2027	2028	2028	2029	2029
Buses	\$ 90,000.00	0	\$ -	0	\$ -	1	\$ 90,000.00	0	\$ -	0	\$ -
Passenger Vans	\$ 35,000.00	0	\$ -	0	\$ -	1	\$ 35,000.00	1	\$ 35,000.00	0	\$ -
Total			\$ -		\$ -		\$ 125,000.00		\$ 35,000.00		\$ -

Type of Vehicle	Average Replacement Cost	2030	2030	2031	2031	2032	2032	2033	2033	2034	2034
Buses	\$ 90,000.00	1	\$ 90,000.00	1	\$ 90,000.00	2	\$ 180,000.00	0	\$ -	0	\$ -
Passenger Vans	\$ 35,000.00	1	\$ 35,000.00	1	\$ 35,000.00	0	\$ -	0	\$ -	0	\$ -
Total			\$ 125,000.00		\$ 125,000.00		\$ 180,000.00		\$ -		\$ -



Transportation Vehicles
 - A 15 year life expectancy was used for both buses and passenger vans
 - Due to the current age of the fleet, the first year of the assessment period has the highest replacement cost of any one year period
 - If replacement funds are available, the district could start an annual replacement schedule that would level out the replacement cost annually