

Office of Financial Management
 Olympia, Washington - Version: 2020-A
 Life Cycle Cost Analysis Tool
Executive Report

Project Information	
Project:	
Address:	
Company:	
Contact:	
Contact Phone:	
Contact Email:	

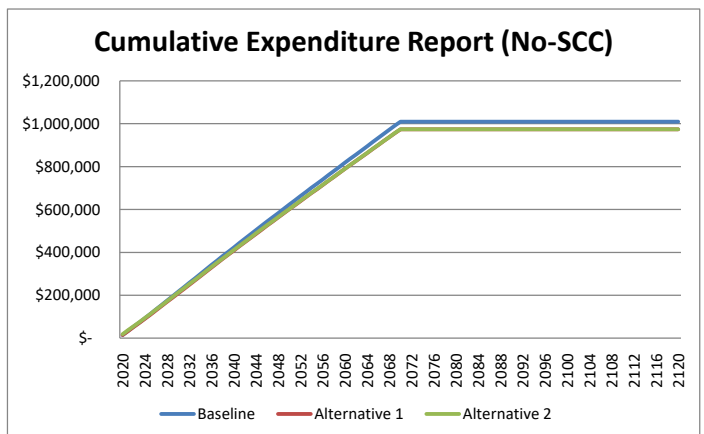
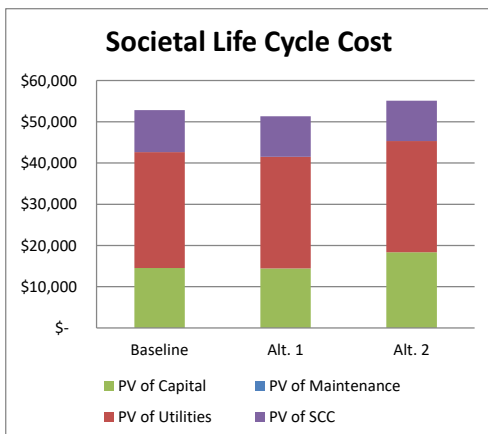
Key Analysis Variables		Building Characteristics	
Study Period (years)	50	Gross (Sq.Ft)	24,695
Nominal Discount Rate	74.11%	Useable (Sq.Ft)	0
Maintenance Escalation	1.00%	Space Efficiency	0.0%
Zero Year (Current Year)	2020	Project Phase	0
Construction Years	0	Building Type	0

Life Cycle Cost Analysis	BEST		
Alternative	Baseline	Alt. 1	Alt. 2
Energy Use Intensity (kBtu/sq.ft)	35.5	34.3	34.2
1st Construction Costs	\$ 14,557	\$ 14,445	\$ 18,365
PV of Capital Costs	\$ 14,557	\$ 14,445	\$ 18,365
PV of Maintenance Costs	\$ -	\$ -	\$ -
PV of Utility Costs	\$ 28,086	\$ 27,072	\$ 26,967
Total Life Cycle Cost (LCC)	\$ 42,643	\$ 41,518	\$ 45,332
Net Present Savings (NPS)	N/A	\$ 1,126	\$ (2,688)

Societal LCC takes into consideration the social cost of carbon dioxide emissions caused by operational energy consumption

(GHG) Social Life Cycle Cost	BEST		
GHG Impact from Utility Consumption	Baseline	Alt. 1	Alt. 2
Tons of CO2e over Study Period	1,202	1,166	1,163
% CO2e Reduction vs. Baseline	N/A	3%	3%
Present Social Cost of Carbon (SCC)	\$ 10,201	\$ 9,838	\$ 9,800
Total LCC with SCC	\$ 52,844	\$ 51,356	\$ 55,132
NPS with SCC	N/A	\$ 1,488	\$ (2,288)

Warning: OFM Assigned Variables Not Used



Baseline Short Description
Alternative 1 Short Description
Alternative 2 Short Description

Cumulative Expenditure Summary				Annual Expenditure Summary		
Year	Baseline	Alt. 1	Alt. 2	Baseline	Alt. 1	Alt. 2
2020	\$ 14,557	\$ 14,445	\$ 18,365	\$ 14,557	\$ 14,445	\$ 18,365
2021	\$ 34,062	\$ 33,246	\$ 37,092	\$ 19,504	\$ 18,800	\$ 18,727
2022	\$ 53,566	\$ 52,046	\$ 55,819	\$ 19,504	\$ 18,800	\$ 18,727
2023	\$ 73,271	\$ 71,040	\$ 74,738	\$ 19,705	\$ 18,994	\$ 18,920
2024	\$ 93,002	\$ 90,058	\$ 93,683	\$ 19,731	\$ 19,019	\$ 18,945
2025	\$ 113,146	\$ 109,477	\$ 113,026	\$ 20,145	\$ 19,418	\$ 19,343
2026	\$ 133,692	\$ 129,281	\$ 132,753	\$ 20,546	\$ 19,805	\$ 19,728
2027	\$ 154,264	\$ 149,111	\$ 152,507	\$ 20,571	\$ 19,830	\$ 19,753
2028	\$ 174,848	\$ 168,954	\$ 172,272	\$ 20,584	\$ 19,843	\$ 19,766
2029	\$ 195,445	\$ 188,810	\$ 192,050	\$ 20,597	\$ 19,855	\$ 19,778
2030	\$ 216,183	\$ 208,805	\$ 211,968	\$ 20,738	\$ 19,995	\$ 19,918
2031	\$ 237,148	\$ 229,018	\$ 232,104	\$ 20,965	\$ 20,214	\$ 20,135
2032	\$ 257,925	\$ 249,051	\$ 252,059	\$ 20,777	\$ 20,033	\$ 19,956
2033	\$ 278,728	\$ 269,109	\$ 272,040	\$ 20,803	\$ 20,058	\$ 19,981
2034	\$ 299,556	\$ 289,193	\$ 292,046	\$ 20,828	\$ 20,084	\$ 20,006
2035	\$ 320,385	\$ 309,277	\$ 312,052	\$ 20,828	\$ 20,084	\$ 20,006
2036	\$ 341,038	\$ 329,192	\$ 331,891	\$ 20,654	\$ 19,916	\$ 19,839
2037	\$ 361,692	\$ 349,108	\$ 351,730	\$ 20,654	\$ 19,916	\$ 19,839
2038	\$ 382,171	\$ 368,856	\$ 371,402	\$ 20,479	\$ 19,748	\$ 19,672
2039	\$ 402,662	\$ 388,616	\$ 391,086	\$ 20,492	\$ 19,760	\$ 19,684
2040	\$ 422,966	\$ 408,196	\$ 410,591	\$ 20,304	\$ 19,580	\$ 19,505
2041	\$ 443,283	\$ 427,788	\$ 430,108	\$ 20,317	\$ 19,592	\$ 19,517
2042	\$ 463,412	\$ 447,200	\$ 449,445	\$ 20,129	\$ 19,412	\$ 19,337
2043	\$ 483,554	\$ 466,625	\$ 468,795	\$ 20,142	\$ 19,425	\$ 19,350
2044	\$ 503,509	\$ 485,869	\$ 487,965	\$ 19,954	\$ 19,244	\$ 19,170
2045	\$ 523,476	\$ 505,125	\$ 507,148	\$ 19,967	\$ 19,257	\$ 19,183
2046	\$ 543,456	\$ 524,394	\$ 526,344	\$ 19,980	\$ 19,269	\$ 19,195
2047	\$ 563,448	\$ 543,676	\$ 545,552	\$ 19,993	\$ 19,282	\$ 19,208
2048	\$ 583,254	\$ 562,778	\$ 564,580	\$ 19,805	\$ 19,101	\$ 19,028
2049	\$ 603,072	\$ 581,892	\$ 583,621	\$ 19,818	\$ 19,114	\$ 19,041
2050	\$ 622,715	\$ 600,838	\$ 602,494	\$ 19,643	\$ 18,946	\$ 18,874
2051	\$ 642,331	\$ 619,758	\$ 621,342	\$ 19,616	\$ 18,920	\$ 18,848
2052	\$ 661,919	\$ 638,652	\$ 640,164	\$ 19,589	\$ 18,894	\$ 18,822
2053	\$ 681,481	\$ 657,520	\$ 658,960	\$ 19,561	\$ 18,868	\$ 18,796
2054	\$ 701,015	\$ 676,362	\$ 677,730	\$ 19,534	\$ 18,842	\$ 18,770
2055	\$ 720,522	\$ 695,178	\$ 696,474	\$ 19,507	\$ 18,816	\$ 18,744
2056	\$ 740,001	\$ 713,968	\$ 715,193	\$ 19,480	\$ 18,790	\$ 18,719
2057	\$ 759,454	\$ 732,732	\$ 733,886	\$ 19,452	\$ 18,764	\$ 18,693
2058	\$ 778,879	\$ 751,470	\$ 752,552	\$ 19,425	\$ 18,738	\$ 18,667
2059	\$ 798,276	\$ 770,182	\$ 771,193	\$ 19,398	\$ 18,712	\$ 18,641
2060	\$ 817,647	\$ 788,869	\$ 789,808	\$ 19,371	\$ 18,686	\$ 18,615
2061	\$ 836,990	\$ 807,529	\$ 808,398	\$ 19,343	\$ 18,660	\$ 18,589
2062	\$ 856,306	\$ 826,163	\$ 826,961	\$ 19,316	\$ 18,634	\$ 18,563
2063	\$ 875,595	\$ 844,771	\$ 845,499	\$ 19,289	\$ 18,608	\$ 18,538
2064	\$ 894,857	\$ 863,354	\$ 864,010	\$ 19,262	\$ 18,582	\$ 18,512
2065	\$ 914,091	\$ 881,910	\$ 882,496	\$ 19,234	\$ 18,556	\$ 18,486
2066	\$ 933,298	\$ 900,440	\$ 900,956	\$ 19,207	\$ 18,530	\$ 18,460
2067	\$ 952,478	\$ 918,944	\$ 919,390	\$ 19,180	\$ 18,504	\$ 18,434
2068	\$ 971,630	\$ 937,423	\$ 937,799	\$ 19,153	\$ 18,478	\$ 18,408
2069	\$ 990,756	\$ 955,875	\$ 956,181	\$ 19,125	\$ 18,452	\$ 18,382
2070	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ 18,813	\$ 18,143	\$ 17,997
2071	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2072	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2073	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2074	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2075	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2076	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2077	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2078	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2079	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2080	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2081	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2082	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2083	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2084	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2085	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2086	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2087	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -

Cumulative Expenditure Summary				Annual Expenditure Summary		
Year	Baseline	Alt. 1	Alt. 2	Baseline	Alt. 1	Alt. 2
2088	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2089	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2090	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2091	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2092	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2093	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2094	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2095	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2096	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2097	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2098	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2099	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2100	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2101	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2102	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2103	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2104	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2105	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2106	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2107	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2108	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2109	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2110	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2111	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2112	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2113	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2114	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2115	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2116	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2117	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2118	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2119	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -
2120	\$ 1,009,568	\$ 974,018	\$ 974,178	\$ -	\$ -	\$ -

Baseline Expenditure Report						Cumulative Expenditures
Year	Capital	Maintenance	Utilities	Financing	Total	Baseline
2020	\$ 14,557	\$ -	\$ -	\$ -	\$ 14,557	\$ 14,557
2021	\$ -	\$ -	\$ 19,504	\$ -	\$ 19,504	\$ 34,062
2022	\$ -	\$ -	\$ 19,504	\$ -	\$ 19,504	\$ 53,566
2023	\$ -	\$ -	\$ 19,705	\$ -	\$ 19,705	\$ 73,271
2024	\$ -	\$ -	\$ 19,731	\$ -	\$ 19,731	\$ 93,002
2025	\$ -	\$ -	\$ 20,145	\$ -	\$ 20,145	\$ 113,146
2026	\$ -	\$ -	\$ 20,546	\$ -	\$ 20,546	\$ 133,692
2027	\$ -	\$ -	\$ 20,571	\$ -	\$ 20,571	\$ 154,264
2028	\$ -	\$ -	\$ 20,584	\$ -	\$ 20,584	\$ 174,848
2029	\$ -	\$ -	\$ 20,597	\$ -	\$ 20,597	\$ 195,445
2030	\$ -	\$ -	\$ 20,738	\$ -	\$ 20,738	\$ 216,183
2031	\$ -	\$ -	\$ 20,965	\$ -	\$ 20,965	\$ 237,148
2032	\$ -	\$ -	\$ 20,777	\$ -	\$ 20,777	\$ 257,925
2033	\$ -	\$ -	\$ 20,803	\$ -	\$ 20,803	\$ 278,728
2034	\$ -	\$ -	\$ 20,828	\$ -	\$ 20,828	\$ 299,556
2035	\$ -	\$ -	\$ 20,828	\$ -	\$ 20,828	\$ 320,385
2036	\$ -	\$ -	\$ 20,654	\$ -	\$ 20,654	\$ 341,038
2037	\$ -	\$ -	\$ 20,654	\$ -	\$ 20,654	\$ 361,692
2038	\$ -	\$ -	\$ 20,479	\$ -	\$ 20,479	\$ 382,171
2039	\$ -	\$ -	\$ 20,492	\$ -	\$ 20,492	\$ 402,662
2040	\$ -	\$ -	\$ 20,304	\$ -	\$ 20,304	\$ 422,966
2041	\$ -	\$ -	\$ 20,317	\$ -	\$ 20,317	\$ 443,283
2042	\$ -	\$ -	\$ 20,129	\$ -	\$ 20,129	\$ 463,412
2043	\$ -	\$ -	\$ 20,142	\$ -	\$ 20,142	\$ 483,554
2044	\$ -	\$ -	\$ 19,954	\$ -	\$ 19,954	\$ 503,509
2045	\$ -	\$ -	\$ 19,967	\$ -	\$ 19,967	\$ 523,476
2046	\$ -	\$ -	\$ 19,980	\$ -	\$ 19,980	\$ 543,456
2047	\$ -	\$ -	\$ 19,993	\$ -	\$ 19,993	\$ 563,448
2048	\$ -	\$ -	\$ 19,805	\$ -	\$ 19,805	\$ 583,254
2049	\$ -	\$ -	\$ 19,818	\$ -	\$ 19,818	\$ 603,072
2050	\$ -	\$ -	\$ 19,643	\$ -	\$ 19,643	\$ 622,715
2051	\$ -	\$ -	\$ 19,616	\$ -	\$ 19,616	\$ 642,331
2052	\$ -	\$ -	\$ 19,589	\$ -	\$ 19,589	\$ 661,919
2053	\$ -	\$ -	\$ 19,561	\$ -	\$ 19,561	\$ 681,481
2054	\$ -	\$ -	\$ 19,534	\$ -	\$ 19,534	\$ 701,015
2055	\$ -	\$ -	\$ 19,507	\$ -	\$ 19,507	\$ 720,522
2056	\$ -	\$ -	\$ 19,480	\$ -	\$ 19,480	\$ 740,001
2057	\$ -	\$ -	\$ 19,452	\$ -	\$ 19,452	\$ 759,454
2058	\$ -	\$ -	\$ 19,425	\$ -	\$ 19,425	\$ 778,879
2059	\$ -	\$ -	\$ 19,398	\$ -	\$ 19,398	\$ 798,276
2060	\$ -	\$ -	\$ 19,371	\$ -	\$ 19,371	\$ 817,647
2061	\$ -	\$ -	\$ 19,343	\$ -	\$ 19,343	\$ 836,990
2062	\$ -	\$ -	\$ 19,316	\$ -	\$ 19,316	\$ 856,306
2063	\$ -	\$ -	\$ 19,289	\$ -	\$ 19,289	\$ 875,595
2064	\$ -	\$ -	\$ 19,262	\$ -	\$ 19,262	\$ 894,857
2065	\$ -	\$ -	\$ 19,234	\$ -	\$ 19,234	\$ 914,091
2066	\$ -	\$ -	\$ 19,207	\$ -	\$ 19,207	\$ 933,298
2067	\$ -	\$ -	\$ 19,180	\$ -	\$ 19,180	\$ 952,478
2068	\$ -	\$ -	\$ 19,153	\$ -	\$ 19,153	\$ 971,630
2069	\$ -	\$ -	\$ 19,125	\$ -	\$ 19,125	\$ 990,756
2070	\$ (285)	\$ -	\$ 19,098	\$ -	\$ 18,813	\$ 1,009,568
2071	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2072	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2073	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2074	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2077	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2078	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2079	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2080	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2081	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2082	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2083	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2084	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2085	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2086	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2087	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568

Baseline Expenditure Report						Cumulative Expenditures
Year	Capital	Maintenance	Utilities	Financing	Total	Baseline
2088	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2089	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2090	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2091	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2092	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2093	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2094	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2095	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2096	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2097	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2098	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2099	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2101	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2102	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2103	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2106	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2107	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2108	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2109	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2111	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2112	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2113	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2116	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2117	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2118	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2119	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568
2120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,568

Alternative 1 Expenditure Report						Cumulative Expenditures	Expenditures over Baseline	Expenditures over Baseline
Year	Capital	Maintenance	Utilities	Financing	Total	Alt. 1	Annual	Cumulative
2020	\$ 14,445	\$ -	\$ -	\$ -	\$ 14,445	\$ 14,445	\$ (112)	\$ (112)
2021	\$ -	\$ -	\$ 18,800	\$ -	\$ 18,800	\$ 33,246	\$ (704)	\$ (816)
2022	\$ -	\$ -	\$ 18,800	\$ -	\$ 18,800	\$ 52,046	\$ (704)	\$ (1,520)
2023	\$ -	\$ -	\$ 18,994	\$ -	\$ 18,994	\$ 71,040	\$ (711)	\$ (2,232)
2024	\$ -	\$ -	\$ 19,019	\$ -	\$ 19,019	\$ 90,058	\$ (712)	\$ (2,943)
2025	\$ -	\$ -	\$ 19,418	\$ -	\$ 19,418	\$ 109,477	\$ (726)	\$ (3,670)
2026	\$ -	\$ -	\$ 19,805	\$ -	\$ 19,805	\$ 129,281	\$ (741)	\$ (4,411)
2027	\$ -	\$ -	\$ 19,830	\$ -	\$ 19,830	\$ 149,111	\$ (741)	\$ (5,152)
2028	\$ -	\$ -	\$ 19,843	\$ -	\$ 19,843	\$ 168,954	\$ (741)	\$ (5,893)
2029	\$ -	\$ -	\$ 19,855	\$ -	\$ 19,855	\$ 188,810	\$ (742)	\$ (6,635)
2030	\$ -	\$ -	\$ 19,995	\$ -	\$ 19,995	\$ 208,805	\$ (744)	\$ (7,379)
2031	\$ -	\$ -	\$ 20,214	\$ -	\$ 20,214	\$ 229,018	\$ (751)	\$ (8,130)
2032	\$ -	\$ -	\$ 20,033	\$ -	\$ 20,033	\$ 249,051	\$ (744)	\$ (8,874)
2033	\$ -	\$ -	\$ 20,058	\$ -	\$ 20,058	\$ 269,109	\$ (744)	\$ (9,619)
2034	\$ -	\$ -	\$ 20,084	\$ -	\$ 20,084	\$ 289,193	\$ (745)	\$ (10,363)
2035	\$ -	\$ -	\$ 20,084	\$ -	\$ 20,084	\$ 309,277	\$ (745)	\$ (11,108)
2036	\$ -	\$ -	\$ 19,916	\$ -	\$ 19,916	\$ 329,192	\$ (738)	\$ (11,846)
2037	\$ -	\$ -	\$ 19,916	\$ -	\$ 19,916	\$ 349,108	\$ (738)	\$ (12,584)
2038	\$ -	\$ -	\$ 19,748	\$ -	\$ 19,748	\$ 368,856	\$ (731)	\$ (13,315)
2039	\$ -	\$ -	\$ 19,760	\$ -	\$ 19,760	\$ 388,616	\$ (731)	\$ (14,046)
2040	\$ -	\$ -	\$ 19,580	\$ -	\$ 19,580	\$ 408,196	\$ (724)	\$ (14,771)
2041	\$ -	\$ -	\$ 19,592	\$ -	\$ 19,592	\$ 427,788	\$ (724)	\$ (15,495)
2042	\$ -	\$ -	\$ 19,412	\$ -	\$ 19,412	\$ 447,200	\$ (717)	\$ (16,212)
2043	\$ -	\$ -	\$ 19,425	\$ -	\$ 19,425	\$ 466,625	\$ (717)	\$ (16,930)
2044	\$ -	\$ -	\$ 19,244	\$ -	\$ 19,244	\$ 485,869	\$ (710)	\$ (17,640)
2045	\$ -	\$ -	\$ 19,257	\$ -	\$ 19,257	\$ 505,125	\$ (711)	\$ (18,351)
2046	\$ -	\$ -	\$ 19,269	\$ -	\$ 19,269	\$ 524,394	\$ (711)	\$ (19,061)
2047	\$ -	\$ -	\$ 19,282	\$ -	\$ 19,282	\$ 543,676	\$ (711)	\$ (19,772)
2048	\$ -	\$ -	\$ 19,101	\$ -	\$ 19,101	\$ 562,778	\$ (704)	\$ (20,476)
2049	\$ -	\$ -	\$ 19,114	\$ -	\$ 19,114	\$ 581,892	\$ (704)	\$ (21,180)
2050	\$ -	\$ -	\$ 18,946	\$ -	\$ 18,946	\$ 600,838	\$ (697)	\$ (21,877)
2051	\$ -	\$ -	\$ 18,920	\$ -	\$ 18,920	\$ 619,758	\$ (696)	\$ (22,573)
2052	\$ -	\$ -	\$ 18,894	\$ -	\$ 18,894	\$ 638,652	\$ (695)	\$ (23,268)
2053	\$ -	\$ -	\$ 18,868	\$ -	\$ 18,868	\$ 657,520	\$ (693)	\$ (23,961)
2054	\$ -	\$ -	\$ 18,842	\$ -	\$ 18,842	\$ 676,362	\$ (692)	\$ (24,653)
2055	\$ -	\$ -	\$ 18,816	\$ -	\$ 18,816	\$ 695,178	\$ (691)	\$ (25,344)
2056	\$ -	\$ -	\$ 18,790	\$ -	\$ 18,790	\$ 713,968	\$ (689)	\$ (26,033)
2057	\$ -	\$ -	\$ 18,764	\$ -	\$ 18,764	\$ 732,732	\$ (688)	\$ (26,721)
2058	\$ -	\$ -	\$ 18,738	\$ -	\$ 18,738	\$ 751,470	\$ (687)	\$ (27,408)
2059	\$ -	\$ -	\$ 18,712	\$ -	\$ 18,712	\$ 770,182	\$ (686)	\$ (28,094)
2060	\$ -	\$ -	\$ 18,686	\$ -	\$ 18,686	\$ 788,869	\$ (684)	\$ (28,778)
2061	\$ -	\$ -	\$ 18,660	\$ -	\$ 18,660	\$ 807,529	\$ (683)	\$ (29,461)
2062	\$ -	\$ -	\$ 18,634	\$ -	\$ 18,634	\$ 826,163	\$ (682)	\$ (30,143)
2063	\$ -	\$ -	\$ 18,608	\$ -	\$ 18,608	\$ 844,771	\$ (681)	\$ (30,824)
2064	\$ -	\$ -	\$ 18,582	\$ -	\$ 18,582	\$ 863,354	\$ (679)	\$ (31,503)
2065	\$ -	\$ -	\$ 18,556	\$ -	\$ 18,556	\$ 881,910	\$ (678)	\$ (32,181)
2066	\$ -	\$ -	\$ 18,530	\$ -	\$ 18,530	\$ 900,440	\$ (677)	\$ (32,858)
2067	\$ -	\$ -	\$ 18,504	\$ -	\$ 18,504	\$ 918,944	\$ (675)	\$ (33,533)
2068	\$ -	\$ -	\$ 18,478	\$ -	\$ 18,478	\$ 937,423	\$ (674)	\$ (34,208)
2069	\$ -	\$ -	\$ 18,452	\$ -	\$ 18,452	\$ 955,875	\$ (673)	\$ (34,881)
2070	\$ (283)	\$ -	\$ 18,426	\$ -	\$ 18,143	\$ 974,018	\$ (669)	\$ (35,550)
2071	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2072	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2073	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2074	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2077	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2078	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2079	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2080	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2081	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2082	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2083	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2084	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2085	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2086	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2087	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)

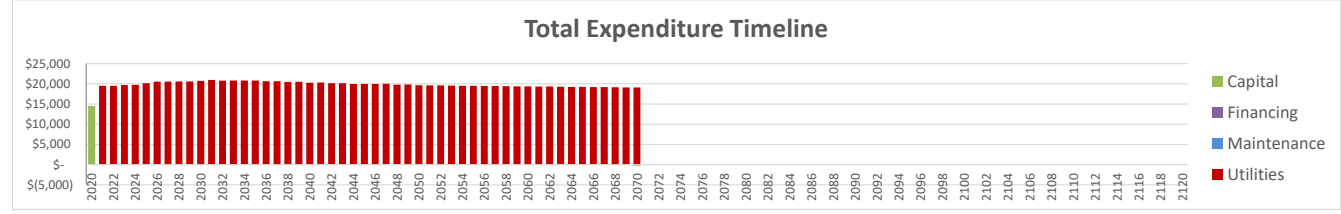
Alternative 1 Expenditure Report						Cumulative Expenditures	Expenditures over Baseline	Expenditures over Baseline
Year	Capital	Maintenance	Utilities	Financing	Total	Alt. 1	Annual	Cumulative
2088	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2089	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2090	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2091	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2092	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2093	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2094	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2095	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2096	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2097	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2098	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2099	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2101	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2102	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2103	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2106	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2107	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2108	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2109	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2111	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2112	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2113	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2116	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2117	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2118	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2119	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)
2120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,018	\$ -	\$ (35,550)

Alternative 2 Expenditure Report						Cumulative Expenditures	Expenditures over Baseline	Expenditures over Baseline
Year	Capital	Maintenance	Utilities	Financing	Total	Alt. 2	Cumulative	Annual
2020	\$ 18,365	\$ -	\$ -	\$ -	\$ 18,365	\$ 18,365	\$ 3,807	\$ 3,807
2021	\$ -	\$ -	\$ 18,727	\$ -	\$ 18,727	\$ 37,092	\$ (777)	\$ 3,030
2022	\$ -	\$ -	\$ 18,727	\$ -	\$ 18,727	\$ 55,819	\$ (777)	\$ 2,253
2023	\$ -	\$ -	\$ 18,920	\$ -	\$ 18,920	\$ 74,738	\$ (785)	\$ 1,467
2024	\$ -	\$ -	\$ 18,945	\$ -	\$ 18,945	\$ 93,683	\$ (786)	\$ 681
2025	\$ -	\$ -	\$ 19,343	\$ -	\$ 19,343	\$ 113,026	\$ (802)	\$ (121)
2026	\$ -	\$ -	\$ 19,728	\$ -	\$ 19,728	\$ 132,753	\$ (818)	\$ (939)
2027	\$ -	\$ -	\$ 19,753	\$ -	\$ 19,753	\$ 152,507	\$ (818)	\$ (1,757)
2028	\$ -	\$ -	\$ 19,766	\$ -	\$ 19,766	\$ 172,272	\$ (819)	\$ (2,576)
2029	\$ -	\$ -	\$ 19,778	\$ -	\$ 19,778	\$ 192,050	\$ (819)	\$ (3,394)
2030	\$ -	\$ -	\$ 19,918	\$ -	\$ 19,918	\$ 211,968	\$ (821)	\$ (4,215)
2031	\$ -	\$ -	\$ 20,135	\$ -	\$ 20,135	\$ 232,104	\$ (829)	\$ (5,045)
2032	\$ -	\$ -	\$ 19,956	\$ -	\$ 19,956	\$ 252,059	\$ (821)	\$ (5,866)
2033	\$ -	\$ -	\$ 19,981	\$ -	\$ 19,981	\$ 272,040	\$ (822)	\$ (6,688)
2034	\$ -	\$ -	\$ 20,006	\$ -	\$ 20,006	\$ 292,046	\$ (822)	\$ (7,510)
2035	\$ -	\$ -	\$ 20,006	\$ -	\$ 20,006	\$ 312,052	\$ (822)	\$ (8,333)
2036	\$ -	\$ -	\$ 19,839	\$ -	\$ 19,839	\$ 331,891	\$ (815)	\$ (9,147)
2037	\$ -	\$ -	\$ 19,839	\$ -	\$ 19,839	\$ 351,730	\$ (815)	\$ (9,962)
2038	\$ -	\$ -	\$ 19,672	\$ -	\$ 19,672	\$ 371,402	\$ (807)	\$ (10,769)
2039	\$ -	\$ -	\$ 19,684	\$ -	\$ 19,684	\$ 391,086	\$ (807)	\$ (11,576)
2040	\$ -	\$ -	\$ 19,505	\$ -	\$ 19,505	\$ 410,591	\$ (799)	\$ (12,376)
2041	\$ -	\$ -	\$ 19,517	\$ -	\$ 19,517	\$ 430,108	\$ (800)	\$ (13,175)
2042	\$ -	\$ -	\$ 19,337	\$ -	\$ 19,337	\$ 449,445	\$ (792)	\$ (13,967)
2043	\$ -	\$ -	\$ 19,350	\$ -	\$ 19,350	\$ 468,795	\$ (792)	\$ (14,759)
2044	\$ -	\$ -	\$ 19,170	\$ -	\$ 19,170	\$ 487,965	\$ (784)	\$ (15,543)
2045	\$ -	\$ -	\$ 19,183	\$ -	\$ 19,183	\$ 507,148	\$ (784)	\$ (16,328)
2046	\$ -	\$ -	\$ 19,195	\$ -	\$ 19,195	\$ 526,344	\$ (785)	\$ (17,112)
2047	\$ -	\$ -	\$ 19,208	\$ -	\$ 19,208	\$ 545,552	\$ (785)	\$ (17,897)
2048	\$ -	\$ -	\$ 19,028	\$ -	\$ 19,028	\$ 564,580	\$ (777)	\$ (18,674)
2049	\$ -	\$ -	\$ 19,041	\$ -	\$ 19,041	\$ 583,621	\$ (777)	\$ (19,451)
2050	\$ -	\$ -	\$ 18,874	\$ -	\$ 18,874	\$ 602,494	\$ (770)	\$ (20,221)
2051	\$ -	\$ -	\$ 18,848	\$ -	\$ 18,848	\$ 621,342	\$ (768)	\$ (20,989)
2052	\$ -	\$ -	\$ 18,822	\$ -	\$ 18,822	\$ 640,164	\$ (767)	\$ (21,755)
2053	\$ -	\$ -	\$ 18,796	\$ -	\$ 18,796	\$ 658,960	\$ (765)	\$ (22,521)
2054	\$ -	\$ -	\$ 18,770	\$ -	\$ 18,770	\$ 677,730	\$ (764)	\$ (23,285)
2055	\$ -	\$ -	\$ 18,744	\$ -	\$ 18,744	\$ 696,474	\$ (763)	\$ (24,047)
2056	\$ -	\$ -	\$ 18,719	\$ -	\$ 18,719	\$ 715,193	\$ (761)	\$ (24,808)
2057	\$ -	\$ -	\$ 18,693	\$ -	\$ 18,693	\$ 733,886	\$ (760)	\$ (25,568)
2058	\$ -	\$ -	\$ 18,667	\$ -	\$ 18,667	\$ 752,552	\$ (758)	\$ (26,326)
2059	\$ -	\$ -	\$ 18,641	\$ -	\$ 18,641	\$ 771,193	\$ (757)	\$ (27,083)
2060	\$ -	\$ -	\$ 18,615	\$ -	\$ 18,615	\$ 789,808	\$ (755)	\$ (27,839)
2061	\$ -	\$ -	\$ 18,589	\$ -	\$ 18,589	\$ 808,398	\$ (754)	\$ (28,593)
2062	\$ -	\$ -	\$ 18,563	\$ -	\$ 18,563	\$ 826,961	\$ (753)	\$ (29,345)
2063	\$ -	\$ -	\$ 18,538	\$ -	\$ 18,538	\$ 845,499	\$ (751)	\$ (30,096)
2064	\$ -	\$ -	\$ 18,512	\$ -	\$ 18,512	\$ 864,010	\$ (750)	\$ (30,846)
2065	\$ -	\$ -	\$ 18,486	\$ -	\$ 18,486	\$ 882,496	\$ (748)	\$ (31,595)
2066	\$ -	\$ -	\$ 18,460	\$ -	\$ 18,460	\$ 900,956	\$ (747)	\$ (32,342)
2067	\$ -	\$ -	\$ 18,434	\$ -	\$ 18,434	\$ 919,390	\$ (746)	\$ (33,087)
2068	\$ -	\$ -	\$ 18,408	\$ -	\$ 18,408	\$ 937,799	\$ (744)	\$ (33,832)
2069	\$ -	\$ -	\$ 18,382	\$ -	\$ 18,382	\$ 956,181	\$ (743)	\$ (34,574)
2070	\$ (360)	\$ -	\$ 18,357	\$ -	\$ 17,997	\$ 974,178	\$ (816)	\$ (35,390)
2071	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2072	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2073	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2074	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2077	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2078	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2079	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2080	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2081	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2082	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2083	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2084	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2085	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2086	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2087	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)

Alternative 2 Expenditure Report						Cumulative Expenditures	Expenditures over Baseline	Expenditures over Baseline
Year	Capital	Maintenance	Utilities	Financing	Total	Alt. 2	Cumulative	Annual
2088	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2089	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2090	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2091	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2092	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2093	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2094	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2095	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2096	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2097	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2098	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2099	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2101	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2102	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2103	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2106	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2107	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2108	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2109	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2111	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2112	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2113	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2116	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2117	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2118	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2119	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)
2120	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 974,178	\$ -	\$ (35,390)

Office of Financial Management
 Olympia, Washington - Version: 2020-A
 Life Cycle Cost Analysis Tool
Baseline Detailed Report

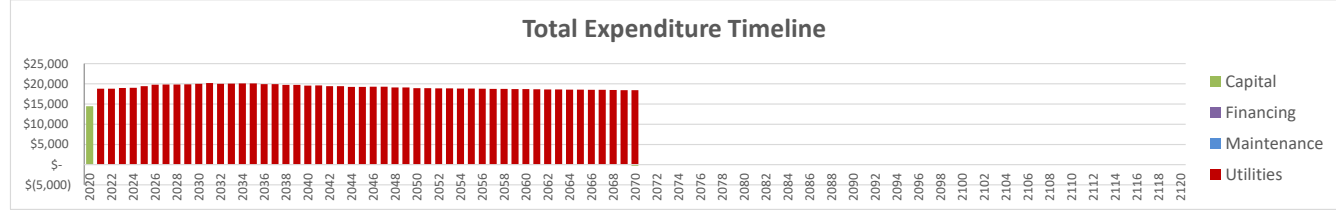
Show Values and Parent Categories Only (Requires Refilter)



Building Component List All Values Sum To Their Parent Category		Present Value of Capital Costs	Present Value of Maintenance Costs	Present Value of Utility Costs	Total Present Value of Component or Group
Total Building Life Cycle Cost		\$ 14,557	\$ -	\$ 28,086	\$ 42,643
W	Whole Building Entries (Capital = Financing)	\$ -	\$ -	\$ 28,086	\$ 28,086
A	Substructure	\$ -	\$ -	\$ -	\$ -
B	Shell	\$ 14,557	\$ -	\$ -	\$ 14,557
C	Interiors	\$ -	\$ -	\$ -	\$ -
D	Services	\$ -	\$ -	\$ -	\$ -
E	Equipment & Furnishings	\$ -	\$ -	\$ -	\$ -
F	Special Construction & Demolition	\$ -	\$ -	\$ -	\$ -
G	Building Sitework	\$ -	\$ -	\$ -	\$ -
Z	Other Project Costs	\$ -	\$ -	\$ -	\$ -
Z10	One Time - Upfront Costs	\$ -	\$ -	\$ -	\$ -
Z30	Re-Occurring Annual Cost (Track Inflation)	\$ -	\$ -	\$ -	\$ -
C.E.	Custom Entries	\$ -	\$ -	\$ -	\$ -

<input type="radio"/>	Manual Special Selection Only (Requires Refilter)
<input checked="" type="radio"/>	Show Values and Parent Categories Only (Requires Refilter)
<input type="radio"/>	Show Differences Between Alternative and Baseline (Req. Refilter)

Alternative 1 Detailed Report



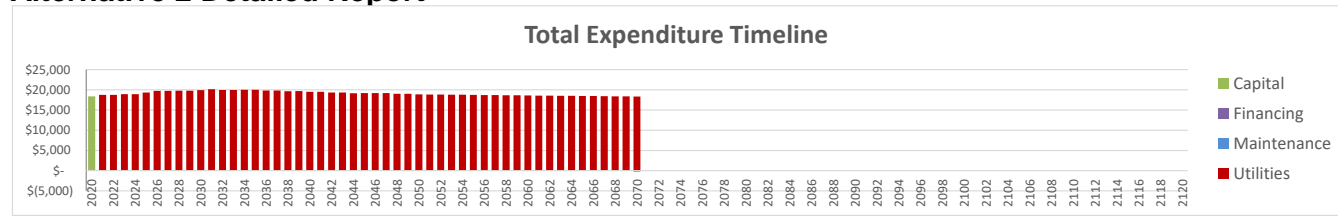
Building Component List All Values Sum To Their Parent Category		Present Value of Capital Costs	Present Value of Maintenance Costs	Present Value of Utility Costs	Total Present Value of Component or Group
Total Building Life Cycle Cost		\$ 14,445	\$ -	\$ 27,072	\$ 41,518
W	Whole Building Entries (Capital = Financing)	\$ -	\$ -	\$ 27,072	\$ 27,072
A	Substructure	\$ -	\$ -	\$ -	\$ -
A10	Foundations	\$ -	\$ -	\$ -	\$ -
A1010	Standard Foundations	\$ -	\$ -	\$ -	\$ -
A101098	Other	\$ -	\$ -	\$ -	\$ -
A1020	Special Foundations	\$ -	\$ -	\$ -	\$ -
A102098	Other	\$ -	\$ -	\$ -	\$ -
A103098	Other	\$ -	\$ -	\$ -	\$ -
A201098	Other	\$ -	\$ -	\$ -	\$ -
A202098	Other	\$ -	\$ -	\$ -	\$ -
B	Shell	\$ 14,445	\$ -	\$ -	\$ 14,445
B101098	Other	\$ -	\$ -	\$ -	\$ -
B102098	Other	\$ -	\$ -	\$ -	\$ -
B201098	Vermiculite, 50% of Cores	\$ -	\$ -	\$ -	\$ -
B202098	R-11.2 CI	\$ -	\$ -	\$ -	\$ -
B203098	Other	\$ -	\$ -	\$ -	\$ -
B301098	Other	\$ -	\$ -	\$ -	\$ -
B302098	Other	\$ -	\$ -	\$ -	\$ -
C	Interiors	\$ -	\$ -	\$ -	\$ -
C101098	Other	\$ -	\$ -	\$ -	\$ -
C102098	Other	\$ -	\$ -	\$ -	\$ -
C103098	Other	\$ -	\$ -	\$ -	\$ -
C201098	Other	\$ -	\$ -	\$ -	\$ -
C202098	Other	\$ -	\$ -	\$ -	\$ -
C301098	Other	\$ -	\$ -	\$ -	\$ -
C302098	Other	\$ -	\$ -	\$ -	\$ -
C303098	Other	\$ -	\$ -	\$ -	\$ -
D	Services	\$ -	\$ -	\$ -	\$ -
D101098	Other	\$ -	\$ -	\$ -	\$ -
D102098	Other	\$ -	\$ -	\$ -	\$ -
D109098	Other	\$ -	\$ -	\$ -	\$ -
D201098	Other	\$ -	\$ -	\$ -	\$ -
D202098	Other	\$ -	\$ -	\$ -	\$ -
D203098	Other	\$ -	\$ -	\$ -	\$ -
D204098	Other	\$ -	\$ -	\$ -	\$ -
D209098	Other	\$ -	\$ -	\$ -	\$ -
D300198	Other	\$ -	\$ -	\$ -	\$ -
D302098	Other	\$ -	\$ -	\$ -	\$ -
D303098	Other	\$ -	\$ -	\$ -	\$ -
D304098	Other	\$ -	\$ -	\$ -	\$ -
D305098	Other	\$ -	\$ -	\$ -	\$ -
D306098	Other	\$ -	\$ -	\$ -	\$ -
D307098	Other	\$ -	\$ -	\$ -	\$ -
D309098	Other	\$ -	\$ -	\$ -	\$ -
D409098	Other	\$ -	\$ -	\$ -	\$ -
D403098	Other	\$ -	\$ -	\$ -	\$ -
D409098	Other	\$ -	\$ -	\$ -	\$ -
D501098	Other	\$ -	\$ -	\$ -	\$ -
D502098	Other	\$ -	\$ -	\$ -	\$ -
D503098	Other	\$ -	\$ -	\$ -	\$ -
D509098	Other	\$ -	\$ -	\$ -	\$ -
E	Equipment & Furnishings	\$ -	\$ -	\$ -	\$ -
E101098	Other	\$ -	\$ -	\$ -	\$ -
E102098	Other	\$ -	\$ -	\$ -	\$ -
E103098	Other	\$ -	\$ -	\$ -	\$ -
E109098	Other	\$ -	\$ -	\$ -	\$ -
E201098	Other	\$ -	\$ -	\$ -	\$ -
E202098	Other	\$ -	\$ -	\$ -	\$ -
F	Special Construction & Demolition	\$ -	\$ -	\$ -	\$ -
F101098	Other	\$ -	\$ -	\$ -	\$ -

F102098	Other	\$	-	\$	-	\$	-	\$	-
F103098	Other	\$	-	\$	-	\$	-	\$	-
F104098	Other	\$	-	\$	-	\$	-	\$	-
F105098	Other	\$	-	\$	-	\$	-	\$	-
F201098	Other	\$	-	\$	-	\$	-	\$	-
F202098	Other	\$	-	\$	-	\$	-	\$	-
G	Building Sitework	\$	-	\$	-	\$	-	\$	-
G101098	Other	\$	-	\$	-	\$	-	\$	-
G102098	Other	\$	-	\$	-	\$	-	\$	-
G103098	Other	\$	-	\$	-	\$	-	\$	-
G104098	Other	\$	-	\$	-	\$	-	\$	-
G201098	Other	\$	-	\$	-	\$	-	\$	-
G202098	Other	\$	-	\$	-	\$	-	\$	-
G203098	Other	\$	-	\$	-	\$	-	\$	-
G204098	Other	\$	-	\$	-	\$	-	\$	-
G205098	Other	\$	-	\$	-	\$	-	\$	-
G301098	Other	\$	-	\$	-	\$	-	\$	-
G302098	Other	\$	-	\$	-	\$	-	\$	-
G303098	Other	\$	-	\$	-	\$	-	\$	-
G304098	Other	\$	-	\$	-	\$	-	\$	-
G305098	Other	\$	-	\$	-	\$	-	\$	-
G306098	Other	\$	-	\$	-	\$	-	\$	-
G309098	Other	\$	-	\$	-	\$	-	\$	-
G401098	Other	\$	-	\$	-	\$	-	\$	-
G402098	Other	\$	-	\$	-	\$	-	\$	-
G403098	Other	\$	-	\$	-	\$	-	\$	-
G409098	Other	\$	-	\$	-	\$	-	\$	-
G901098	Other	\$	-	\$	-	\$	-	\$	-
G909098	Other	\$	-	\$	-	\$	-	\$	-
X	Other Categories	\$	-	\$	-	\$	-	\$	-
X90	Other Categories	\$	-	\$	-	\$	-	\$	-
X9010	Other	\$	-	\$	-	\$	-	\$	-
X901001	Other	\$	-	\$	-	\$	-	\$	-
X901002	Other	\$	-	\$	-	\$	-	\$	-
X901003	Other	\$	-	\$	-	\$	-	\$	-
X901004	Other	\$	-	\$	-	\$	-	\$	-
X901005	Other	\$	-	\$	-	\$	-	\$	-
X901006	Other	\$	-	\$	-	\$	-	\$	-
X901007	Other	\$	-	\$	-	\$	-	\$	-
X901008	Other	\$	-	\$	-	\$	-	\$	-
X901009	Other	\$	-	\$	-	\$	-	\$	-
X901010	Other	\$	-	\$	-	\$	-	\$	-
X9020	Other	\$	-	\$	-	\$	-	\$	-
X902001	Other	\$	-	\$	-	\$	-	\$	-
X902002	Other	\$	-	\$	-	\$	-	\$	-
X902003	Other	\$	-	\$	-	\$	-	\$	-
X902004	Other	\$	-	\$	-	\$	-	\$	-
X902005	Other	\$	-	\$	-	\$	-	\$	-
X902006	Other	\$	-	\$	-	\$	-	\$	-
X902007	Other	\$	-	\$	-	\$	-	\$	-
X902008	Other	\$	-	\$	-	\$	-	\$	-
X902009	Other	\$	-	\$	-	\$	-	\$	-
X902010	Other	\$	-	\$	-	\$	-	\$	-
X9030	Other	\$	-	\$	-	\$	-	\$	-
X903001	Other	\$	-	\$	-	\$	-	\$	-
X903002	Other	\$	-	\$	-	\$	-	\$	-
X903003	Other	\$	-	\$	-	\$	-	\$	-
X903004	Other	\$	-	\$	-	\$	-	\$	-
X903005	Other	\$	-	\$	-	\$	-	\$	-
X903006	Other	\$	-	\$	-	\$	-	\$	-
X903007	Other	\$	-	\$	-	\$	-	\$	-
X903008	Other	\$	-	\$	-	\$	-	\$	-
X903009	Other	\$	-	\$	-	\$	-	\$	-
X903010	Other	\$	-	\$	-	\$	-	\$	-
X9040	Other	\$	-	\$	-	\$	-	\$	-
X904001	Other	\$	-	\$	-	\$	-	\$	-
X904002	Other	\$	-	\$	-	\$	-	\$	-
X904003	Other	\$	-	\$	-	\$	-	\$	-
X904004	Other	\$	-	\$	-	\$	-	\$	-
X904005	Other	\$	-	\$	-	\$	-	\$	-
X904006	Other	\$	-	\$	-	\$	-	\$	-
X904007	Other	\$	-	\$	-	\$	-	\$	-
X904008	Other	\$	-	\$	-	\$	-	\$	-
X904009	Other	\$	-	\$	-	\$	-	\$	-
X904010	Other	\$	-	\$	-	\$	-	\$	-
X9050	Other	\$	-	\$	-	\$	-	\$	-
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X905002	Other	\$	-	\$	-	\$	-	\$	-
X905003	Other	\$	-	\$	-	\$	-	\$	-
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X905006	Other	\$	-	\$	-	\$	-	\$	-
X905007	Other	\$	-	\$	-	\$	-	\$	-
X905008	Other	\$	-	\$	-	\$	-	\$	-
X905009	Other	\$	-	\$	-	\$	-	\$	-
X905010	Other	\$	-	\$	-	\$	-	\$	-
X9060	Other	\$	-	\$	-	\$	-	\$	-
X906001	Other	\$	-	\$	-	\$	-	\$	-
X906002	Other	\$	-	\$	-	\$	-	\$	-
X906003	Other	\$	-	\$	-	\$	-	\$	-
X906004	Other	\$	-	\$	-	\$	-	\$	-
X906005	Other	\$	-	\$	-	\$	-	\$	-
X906006	Other	\$	-	\$	-	\$	-	\$	-
X906007	Other	\$	-	\$	-	\$	-	\$	-
X906008	Other	\$	-	\$	-	\$	-	\$	-
X906009	Other	\$	-	\$	-	\$	-	\$	-
X906010	Other	\$	-	\$	-	\$	-	\$	-
X9070	Other	\$	-	\$	-	\$	-	\$	-
X907001	Other	\$	-	\$	-	\$	-	\$	-
X907002	Other	\$	-	\$	-	\$	-	\$	-
X907003	Other	\$	-	\$	-	\$	-	\$	-
X907004	Other	\$	-	\$	-	\$	-	\$	-
X907005	Other	\$	-	\$	-	\$	-	\$	-
X907006	Other	\$	-	\$	-	\$	-	\$	-
X907007	Other	\$	-	\$	-	\$	-	\$	-
X907008	Other	\$	-	\$	-	\$	-	\$	-
X907009	Other	\$	-	\$	-	\$	-	\$	-
X907010	Other	\$	-	\$	-	\$	-	\$	-
X9080	Other	\$	-	\$	-	\$	-	\$	-
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X908002	Other	\$	-	\$	-	\$	-	\$	-
X908003	Other	\$	-	\$	-	\$	-	\$	-
X908004	Other	\$	-	\$	-	\$	-	\$	-
X908005	Other	\$	-	\$	-	\$	-	\$	-
X908006	Other	\$	-	\$	-	\$	-	\$	-
X908007	Other	\$	-	\$	-	\$	-	\$	-
X908008	Other	\$	-	\$	-	\$	-	\$	-
X908009	Other	\$	-	\$	-	\$	-	\$	-
X908010	Other	\$	-	\$	-	\$	-	\$	-
X9090	Other	\$	-	\$	-	\$	-	\$	-
X909001	Other	\$	-	\$	-	\$	-	\$	-
X909002	Other	\$	-	\$	-	\$	-	\$	-
X909003	Other	\$	-	\$	-	\$	-	\$	-
X909004	Other	\$	-	\$	-	\$	-	\$	-
X909005	Other	\$	-	\$	-	\$	-	\$	-
X909006	Other	\$	-	\$	-	\$	-	\$	-
X909007	Other	\$	-	\$	-	\$	-	\$	-
X909008	Other	\$	-	\$	-	\$	-	\$	-
X909009	Other	\$	-	\$	-	\$	-	\$	-
X909010	Other	\$	-	\$	-	\$	-	\$	-
X9100	Other	\$	-	\$	-	\$	-	\$	-
X910001	Other	\$	-	\$	-	\$	-	\$	-
X910002	Other	\$	-	\$	-	\$	-	\$	-
X910003	Other	\$	-	\$	-	\$	-	\$	-
X910004	Other	\$	-	\$	-	\$	-	\$	-
X910005	Other	\$	-	\$	-	\$	-	\$	-
X910006	Other	\$	-	\$	-	\$	-	\$	-
X910007	Other	\$	-	\$	-	\$	-	\$	-
X910008	Other	\$	-	\$	-	\$	-	\$	-
X910009	Other	\$	-	\$	-	\$	-	\$	-
X910010	Other	\$	-	\$	-	\$	-	\$	-
Z	Other Project Costs	\$	-	\$	-	\$	-	\$	-
Z10	One Time - Upfront Costs	\$	-	\$	-	\$	-	\$	-
Z1060	Other One Time - Upfront Cost	\$	-	\$	-	\$	-	\$	-
Z1070	Other One Time - Upfront Cost	\$	-	\$	-	\$	-	\$	-
Z1080	Other One Time - Upfront Cost	\$	-	\$	-	\$	-	\$	-
Z1090	Other One Time - Upfront Cost	\$	-	\$	-	\$	-	\$	-
Z109099	Other	\$	-	\$	-	\$	-	\$	-
Z108098	Other	\$	-	\$	-	\$	-	\$	-
Z107097	Other	\$	-	\$	-	\$	-	\$	-
Z106096	Other	\$	-	\$	-	\$	-	\$	-
Z105095	Other	\$	-	\$	-	\$	-	\$	-
Z104094	Other	\$	-	\$	-	\$	-	\$	-
Z103093	Other	\$	-	\$	-	\$	-	\$	-
Z102092	Other	\$	-	\$	-	\$	-	\$	-
Z101091	Other	\$	-	\$	-	\$	-	\$	-
Z100090	Other	\$	-	\$	-	\$	-	\$	-
Z30	Re-Occurring Annual Cost (Track Inflation)	\$	-	\$	-	\$	-	\$	-
C.E.	Custom Entries	\$	-	\$	-	\$	-	\$	-

<input type="radio"/>	Manual Special Selection Only (Requires Refilter)
<input checked="" type="radio"/>	Show Values and Parent Categories Only (Requires Refilter)
<input type="radio"/>	Show Differences Between Alternative and Baseline (Req. Refilter)

Alternative 2 Detailed Report

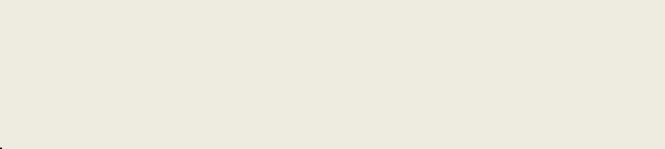


Building Component List All Values Sum To Their Parent Category		Present Value of Capital Costs	Present Value of Maintenance Costs	Present Value of Utility Costs	Total Present Value of Component or Group
Total Building Life Cycle Cost		\$ 18,365	\$ -	\$ 26,967	\$ 45,332
W	Whole Building Entries (Capital = Financing)	\$ -	\$ -	\$ 26,967	\$ 26,967
A	Substructure	\$ -	\$ -	\$ -	\$ -
B	Shell	\$ 18,365	\$ -	\$ -	\$ 18,365
C	Interiors	\$ -	\$ -	\$ -	\$ -
D	Services	\$ -	\$ -	\$ -	\$ -
E	Equipment & Furnishings	\$ -	\$ -	\$ -	\$ -
F	Special Construction & Demolition	\$ -	\$ -	\$ -	\$ -
G	Building Sitework	\$ -	\$ -	\$ -	\$ -
Z	Other Project Costs	\$ -	\$ -	\$ -	\$ -
Z10	One Time - Upfront Costs	\$ -	\$ -	\$ -	\$ -
Z30	Re-Occurring Annual Cost (Track Inflation)	\$ -	\$ -	\$ -	\$ -
C.E.	Custom Entries	\$ -	\$ -	\$ -	\$ -

Office of Financial Management
Olympia, Washington - Version: 2020-A
Life Cycle Cost Analysis Tool
Fuel Escalation Page

Input Method	<input checked="" type="radio"/> OFM	<input type="radio"/> User
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Unlocked Cells for Notes and Calculation



OFM Input	VersionYr	2020	Annual Supplement to NIST Handbook 135 -				
	Version #	A	2021	2022	2023	2024	2025
\$ Escalation	2019	2020	2021	2022	2023	2024	2025
Electricity	1.00	0.96	0.97	0.97	0.98	0.98	1.00
Distillate Oil	1.00	1.00	0.98	0.96	0.94	0.93	0.91
Residual Oil	1.00	1.13	1.07	1.28	1.48	1.70	1.92
Natural Gas	1.00	1.01	1.01	1.01	1.02	1.04	1.07
Coal	1.00	1.00	0.99	0.99	0.98	0.98	0.98
LPG	1.00	1.08	1.01	1.04	1.07	1.11	1.15
Gasoline	1.00	1.02	1.01	1.02	1.02	1.02	1.03
Water*	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Biomass*	1.00	1.00	1.00	1.00	1.00	1.00	1.00
District Heat*	1.00	1.01	1.01	1.01	1.02	1.04	1.07

* Note: District Heat Escalates at the same rate as Natural Gas, H2O and Biomass prices assumed to keep par

User Input

\$ Escalation	2019	2020	2021	2022	2023	2024	2025
Electricity	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Distillate Oil	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Residual Oil	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Natural Gas	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Coal	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LPG	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Gasoline	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Biomass	1.00	1.00	1.00	1.00	1.00	1.00	1.00
District Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Value Used

\$ Escalation	2019	2020	2021	2022	2023	2024	2025
Electricity	1.00	0.96	0.97	0.97	0.98	0.98	1.00
Distillate Oil	1.00	1.00	0.98	0.96	0.94	0.93	0.91
Residual Oil	1.00	1.13	1.07	1.28	1.48	1.70	1.92
Natural Gas	1.00	1.01	1.01	1.01	1.02	1.04	1.07
Coal	1.00	1.00	0.99	0.99	0.98	0.98	0.98

LPG	1.00	1.08	1.01	1.04	1.07	1.11	1.15
Gasoline	1.00	1.02	1.01	1.02	1.02	1.02	1.03
Water	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Biomass	1.00	1.00	1.00	1.00	1.00	1.00	1.00
District Heat	1.00	1.01	1.01	1.01	1.02	1.04	1.07

Baseline Prices

Fuel Price by Year	2019	2020	2021	2022	2023	2024	2025
Electricity	0.09	0.08	0.08	0.08	0.08	0.08	0.09
Distillate Oil	-	-	-	-	-	-	-
Residual Oil	-	-	-	-	-	-	-
Natural Gas	0.82	0.83	0.83	0.83	0.83	0.85	0.88
Coal	-	-	-	-	-	-	-
LPG	-	-	-	-	-	-	-
Gasoline	-	-	-	-	-	-	-
Water	-	-	-	-	-	-	-
Biomass	-	-	-	-	-	-	-
District Heat	-	-	-	-	-	-	-

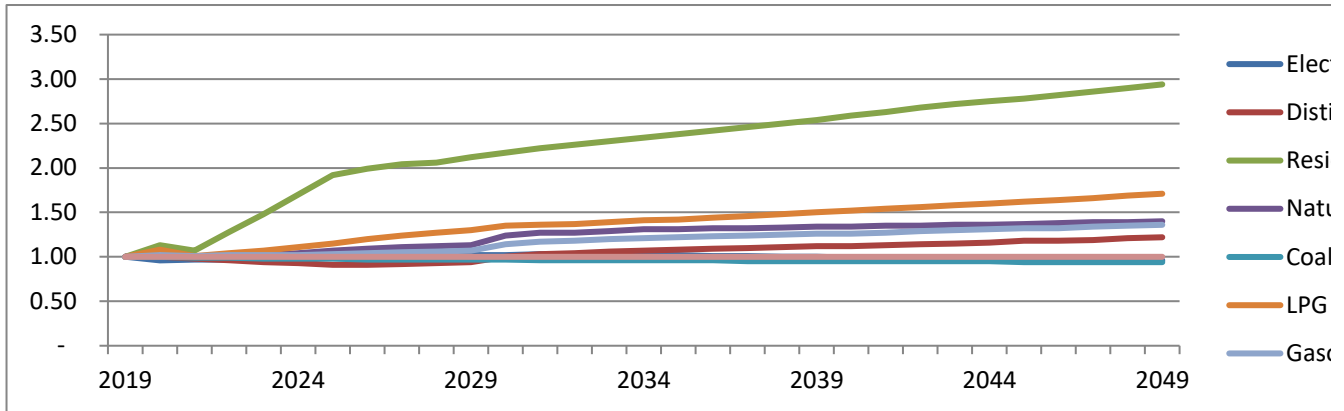


Table Ca-4 Commercial Projected Fuel Price Indices (excluding general inflation), LPG from Residential Section, (

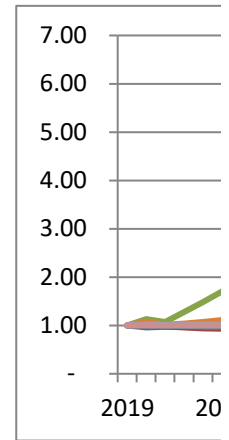
2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1.02	1.02	1.02	1.02	1.02	1.03	1.02	1.02	1.02	1.02
0.91	0.92	0.93	0.94	1.00	1.03	1.04	1.06	1.07	1.08
1.99	2.04	2.06	2.12	2.17	2.22	2.26	2.30	2.34	2.38
1.09	1.11	1.12	1.13	1.24	1.27	1.27	1.29	1.31	1.31
0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.96	0.96
1.2	1.24	1.27	1.3	1.35	1.36	1.37	1.39	1.41	1.42
1.04	1.05	1.06	1.07	1.14	1.17	1.18	1.2	1.21	1.22
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.09	1.11	1.12	1.13	1.24	1.27	1.27	1.29	1.31	1.31

ce with inflation

2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1.02	1.02	1.02	1.02	1.02	1.03	1.02	1.02	1.02	1.02
0.91	0.92	0.93	0.94	1.00	1.03	1.04	1.06	1.07	1.08
1.99	2.04	2.06	2.12	2.17	2.22	2.26	2.30	2.34	2.38
1.09	1.11	1.12	1.13	1.24	1.27	1.27	1.29	1.31	1.31
0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.96	0.96

ture Beyond NIST Data (Linear Default)		<input type="checkbox"/> Switch to Exponential Extrapolation
Linear Last 5 Years	5 Year % Growth	
(0.002)	-0.21%	
0.012	1.01%	
0.038	1.35%	
0.008	0.58%	
(0.002)	-0.21%	
0.022	1.34%	
0.010	0.75%	
0.000	0.00%	
0.000	0.00%	
0.008	0.58%	

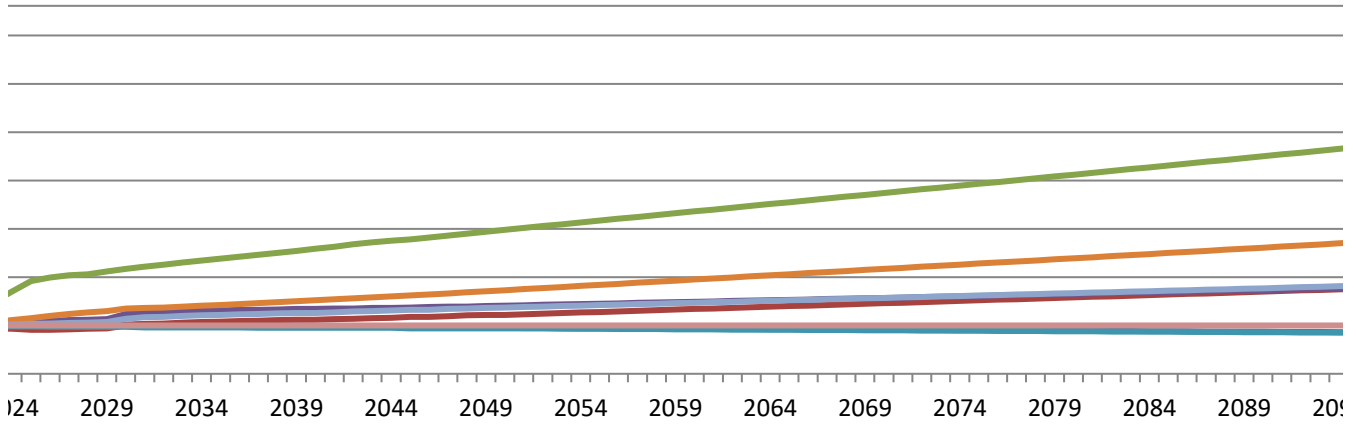


ST trends

2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
0.97	0.97	0.96	0.96	0.95	0.95	0.95	0.94	0.94	0.94
1.18	1.19	1.21	1.22	1.22	1.23	1.24	1.26	1.27	1.28
2.82	2.86	2.90	2.94	2.98	3.02	3.06	3.09	3.13	3.17
1.38	1.39	1.39	1.40	1.41	1.42	1.43	1.43	1.44	1.45
0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.93
1.64	1.66	1.69	1.71	1.73	1.75	1.77	1.80	1.82	1.84
1.32	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41	1.42
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.38	1.39	1.39	1.40	1.41	1.42	1.42	1.43	1.44	1.45

2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

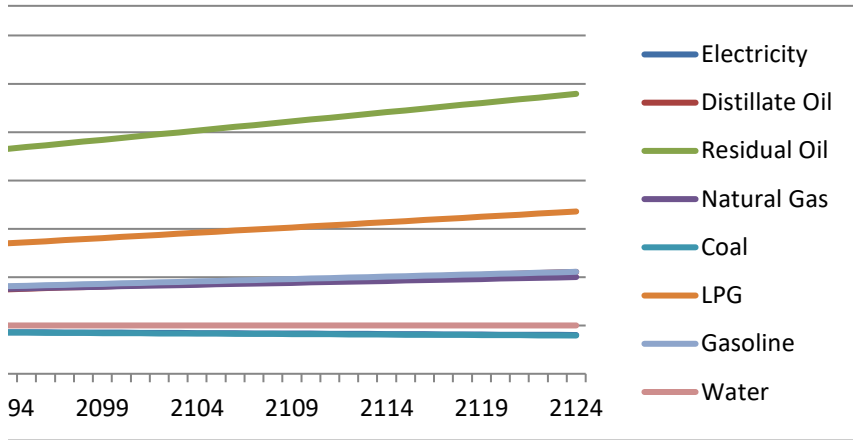
2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
0.97	0.97	0.96	0.96	0.95	0.95	0.95	0.94	0.94	0.94
1.18	1.19	1.21	1.22	1.22	1.23	1.24	1.26	1.27	1.28
2.82	2.86	2.90	2.94	2.98	3.02	3.06	3.09	3.13	3.17
1.38	1.39	1.39	1.40	1.41	1.42	1.43	1.43	1.44	1.45
0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.93



2056	2057	2058	2059	2060	2061	2062	2063	2064	2065
0.94	0.94	0.93	0.93	0.93	0.93	0.93	0.92	0.92	0.92
1.29	1.30	1.32	1.33	1.34	1.35	1.36	1.38	1.39	1.40
3.21	3.25	3.28	3.32	3.36	3.40	3.44	3.47	3.51	3.55
1.46	1.47	1.47	1.48	1.49	1.50	1.51	1.51	1.52	1.53
0.93	0.93	0.92	0.92	0.92	0.92	0.92	0.91	0.91	0.91
1.86	1.88	1.91	1.93	1.95	1.97	1.99	2.02	2.04	2.06
1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.52
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.46	1.46	1.47	1.48	1.49	1.50	1.50	1.51	1.52	1.53

2056	2057	2058	2059	2060	2061	2062	2063	2064	2065
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

2056	2057	2058	2059	2060	2061	2062	2063	2064	2065
0.94	0.94	0.93	0.93	0.93	0.93	0.93	0.92	0.92	0.92
1.29	1.30	1.32	1.33	1.34	1.35	1.36	1.38	1.39	1.40
3.21	3.25	3.28	3.32	3.36	3.40	3.44	3.47	3.51	3.55
1.46	1.47	1.47	1.48	1.49	1.50	1.51	1.51	1.52	1.53
0.93	0.93	0.92	0.92	0.92	0.92	0.92	0.91	0.91	0.91



2066	2067	2068	2069	2070	2071	2072	2073	2074	2075
0.92	0.92	0.91	0.91	0.91	0.91	0.91	0.90	0.90	0.90
1.41	1.42	1.44	1.45	1.46	1.47	1.48	1.50	1.51	1.52
3.59	3.63	3.66	3.70	3.74	3.78	3.82	3.85	3.89	3.93
1.54	1.55	1.55	1.56	1.57	1.58	1.59	1.59	1.60	1.61
0.91	0.91	0.90	0.90	0.90	0.90	0.90	0.89	0.89	0.89
2.08	2.10	2.13	2.15	2.17	2.19	2.21	2.24	2.26	2.28
1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60	1.61	1.62
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.54	1.54	1.55	1.56	1.57	1.58	1.58	1.59	1.60	1.61

2066	2067	2068	2069	2070	2071	2072	2073	2074	2075
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

2066	2067	2068	2069	2070	2071	2072	2073	2074	2075
0.92	0.92	0.91	0.91	0.91	0.91	0.91	0.90	0.90	0.90
1.41	1.42	1.44	1.45	1.46	1.47	1.48	1.50	1.51	1.52
3.59	3.63	3.66	3.70	3.74	3.78	3.82	3.85	3.89	3.93
1.54	1.55	1.55	1.56	1.57	1.58	1.59	1.59	1.60	1.61
0.91	0.91	0.90	0.90	0.90	0.90	0.90	0.89	0.89	0.89

2076	2077	2078	2079	2080	2081	2082	2083	2084	2085
0.90	0.90	0.89	0.89	0.89	0.89	0.89	0.88	0.88	0.88
1.53	1.54	1.56	1.57	1.58	1.59	1.60	1.62	1.63	1.64
3.97	4.01	4.04	4.08	4.12	4.16	4.20	4.23	4.27	4.31
1.62	1.63	1.63	1.64	1.65	1.66	1.67	1.67	1.68	1.69
0.89	0.89	0.88	0.88	0.88	0.88	0.88	0.87	0.87	0.87
2.30	2.32	2.35	2.37	2.39	2.41	2.43	2.46	2.48	2.50
1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.70	1.71	1.72
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.62	1.62	1.63	1.64	1.65	1.66	1.66	1.67	1.68	1.69

2076	2077	2078	2079	2080	2081	2082	2083	2084	2085
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

2076	2077	2078	2079	2080	2081	2082	2083	2084	2085
0.90	0.90	0.89	0.89	0.89	0.89	0.89	0.88	0.88	0.88
1.53	1.54	1.56	1.57	1.58	1.59	1.60	1.62	1.63	1.64
3.97	4.01	4.04	4.08	4.12	4.16	4.20	4.23	4.27	4.31
1.62	1.63	1.63	1.64	1.65	1.66	1.67	1.67	1.68	1.69
0.89	0.89	0.88	0.88	0.88	0.88	0.88	0.87	0.87	0.87

2086	2087	2088	2089	2090	2091	2092	2093	2094	2095
0.88	0.88	0.87	0.87	0.87	0.87	0.87	0.86	0.86	0.86
1.65	1.66	1.68	1.69	1.70	1.71	1.72	1.74	1.75	1.76
4.35	4.39	4.42	4.46	4.50	4.54	4.58	4.61	4.65	4.69
1.70	1.71	1.71	1.72	1.73	1.74	1.75	1.75	1.76	1.77
0.87	0.87	0.86	0.86	0.86	0.86	0.86	0.85	0.85	0.85
2.52	2.54	2.57	2.59	2.61	2.63	2.65	2.68	2.70	2.72
1.73	1.74	1.75	1.76	1.77	1.78	1.79	1.80	1.81	1.82
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.70	1.70	1.71	1.72	1.73	1.74	1.74	1.75	1.76	1.77

2086	2087	2088	2089	2090	2091	2092	2093	2094	2095
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

2086	2087	2088	2089	2090	2091	2092	2093	2094	2095
0.88	0.88	0.87	0.87	0.87	0.87	0.87	0.86	0.86	0.86
1.65	1.66	1.68	1.69	1.70	1.71	1.72	1.74	1.75	1.76
4.35	4.39	4.42	4.46	4.50	4.54	4.58	4.61	4.65	4.69
1.70	1.71	1.71	1.72	1.73	1.74	1.75	1.75	1.76	1.77
0.87	0.87	0.86	0.86	0.86	0.86	0.86	0.85	0.85	0.85

2096	2097	2098	2099	2100	2101	2102	2103	2104	2105
0.86	0.86	0.85	0.85	0.85	0.85	0.85	0.84	0.84	0.84
1.77	1.78	1.80	1.81	1.82	1.83	1.84	1.86	1.87	1.88
4.73	4.77	4.80	4.84	4.88	4.92	4.96	4.99	5.03	5.07
1.78	1.79	1.79	1.80	1.81	1.82	1.83	1.83	1.84	1.85
0.85	0.85	0.84	0.84	0.84	0.84	0.84	0.83	0.83	0.83
2.74	2.76	2.79	2.81	2.83	2.85	2.87	2.90	2.92	2.94
1.83	1.84	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.92
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.78	1.78	1.79	1.80	1.81	1.82	1.82	1.83	1.84	1.85

2096	2097	2098	2099	2100	2101	2102	2103	2104	2105
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

2096	2097	2098	2099	2100	2101	2102	2103	2104	2105
0.86	0.86	0.85	0.85	0.85	0.85	0.85	0.84	0.84	0.84
1.77	1.78	1.80	1.81	1.82	1.83	1.84	1.86	1.87	1.88
4.73	4.77	4.80	4.84	4.88	4.92	4.96	4.99	5.03	5.07
1.78	1.79	1.79	1.80	1.81	1.82	1.83	1.83	1.84	1.85
0.85	0.85	0.84	0.84	0.84	0.84	0.84	0.83	0.83	0.83

2106	2107	2108	2109	2110	2111	2112	2113	2114	2115
0.84	0.84	0.83	0.83	0.83	0.83	0.83	0.82	0.82	0.82
1.89	1.90	1.92	1.93	1.94	1.95	1.96	1.98	1.99	2.00
5.11	5.15	5.18	5.22	5.26	5.30	5.34	5.37	5.41	5.45
1.86	1.87	1.87	1.88	1.89	1.90	1.91	1.91	1.92	1.93
0.83	0.83	0.82	0.82	0.82	0.82	0.82	0.81	0.81	0.81
2.96	2.98	3.01	3.03	3.05	3.07	3.09	3.12	3.14	3.16
1.93	1.94	1.95	1.96	1.97	1.98	1.99	2.00	2.01	2.02
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.86	1.86	1.87	1.88	1.89	1.90	1.90	1.91	1.92	1.93

2106	2107	2108	2109	2110	2111	2112	2113	2114	2115
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

2106	2107	2108	2109	2110	2111	2112	2113	2114	2115
0.84	0.84	0.83	0.83	0.83	0.83	0.83	0.82	0.82	0.82
1.89	1.90	1.92	1.93	1.94	1.95	1.96	1.98	1.99	2.00
5.11	5.15	5.18	5.22	5.26	5.30	5.34	5.37	5.41	5.45
1.86	1.87	1.87	1.88	1.89	1.90	1.91	1.91	1.92	1.93
0.83	0.83	0.82	0.82	0.82	0.82	0.82	0.81	0.81	0.81

2116	2117	2118	2119	2120	2121	2122	2123	2124
0.82	0.82	0.81	0.81	0.81	0.81	0.81	0.80	0.80
2.01	2.02	2.04	2.05	2.06	2.07	2.08	2.10	2.11
5.49	5.53	5.56	5.60	5.64	5.68	5.72	5.75	5.79
1.94	1.95	1.95	1.96	1.97	1.98	1.99	1.99	2.00
0.81	0.81	0.80	0.80	0.80	0.80	0.80	0.79	0.79
3.18	3.20	3.23	3.25	3.27	3.29	3.31	3.34	3.36
2.03	2.04	2.05	2.06	2.07	2.08	2.09	2.10	2.11
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.94	1.94	1.95	1.96	1.97	1.98	1.98	1.99	2.00

2116	2117	2118	2119	2120	2121	2122	2123	2124
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

2116	2117	2118	2119	2120	2121	2122	2123	2124
0.82	0.82	0.81	0.81	0.81	0.81	0.81	0.80	0.80
2.01	2.02	2.04	2.05	2.06	2.07	2.08	2.10	2.11
5.49	5.53	5.56	5.60	5.64	5.68	5.72	5.75	5.79
1.94	1.95	1.95	1.96	1.97	1.98	1.99	1.99	2.00
0.81	0.81	0.80	0.80	0.80	0.80	0.80	0.79	0.79

Type
Electricity
Distillate Oil
Residual Oil
Natural Gas
Coal
LPG
Gasoline
Water*
Biomass*
District Heat*

Type
Electricity
Distillate Oil
Residual Oil
Natural Gas
Coal
LPG
Gasoline
Water
Biomass
District Heat

Type
Electricity
Distillate Oil
Residual Oil
Natural Gas
Coal

LPG
Gasoline
Water
Biomass
District Heat

Type
Electricity
Distillate Oil
Residual Oil
Natural Gas
Coal
LPG
Gasoline
Water
Biomass
District Heat

**Office of Financial Management
 Olympia, Washington - Version: 2020-A
 Life Cycle Cost Analysis Tool
 Carbon Externality**

Social Cost of Carbon - U.S. Government Interagency Working Group on SCC - 1

Impact Year	2010	2011
2007\$	51	52
2015\$	58.14	59.28
2007 -> Current Inflation Adjustor	1.14	
User Adjustment to Final SCC		

Site Emission Factors	CO2e (g/mmBTU)	kBTU/Unit
Electricity through 2029	120,704.7	3.4121
Electricity 2030 or later	120,704.7	3.4121
Natural Gas	53,114.8	100.0
Diesel/#2	74,213.8	138.0
#5/#6 Oil	74,268.8	145.0
Gasoline	70,473.8	125.0
LPG	61,963.8	92.0
District Heat *	66,393.5	1,000.0
Coal	97,921.8	1,000.0
Biomass (wood and woody mass)	1155.6	1,000.0
Biodiesel 100%	60.0	128.0
Ethanol 100%	60.0	84.0

Non Electricity Emission Factors are based on the site emissions and do not take
 Electricity Emission Factors are based on the site emissions of the power plant
 Source

eCFR	e-CFR - Title 40 - Chapter I - Subchapter
Marginal Electricity from Nat. Gas	Developed by WA Dept of Commerce,
Calculated	* District Heat assumes an 80% efficiency
EPA Emissions Factors	Assumes no carbon emissions, only CH
% Biofuel	
Biodiesel	0%
Ethanol	0%

Average Annual kBTU/year	Baseline Consumption	2020	2021
718245.5451	Electricity (KWh)	-	210,497.0
158700	Natural Gas (Therms)	-	1,587.0
-	Diesel/#2 (Gallons)	-	-
-	#5/#6 Oil (Gallons)	-	-
-	Gasoline (Gallons)	-	-
-	LPG (Gallons)	-	-
-	District Heat (mmBTU)	-	-
0	Coal (mmBTU)	-	-

-	Biomass (mmBTU)	-	-
-	Biodiesel (Gallons)	-	-
-	Ethanol (Gallons)	-	-
876,946			
	Baseline CO2e Emission (Tons)	2020	2021
	Electricity	-	86.7
	Natural Gas	-	8.4
	Diesel/#2	-	-
	#5/#6 Oil	-	-
	Gasoline	-	-
	LPG	-	-
	District Heat	-	-
	Coal	-	-
	Biomass	-	-
	Biodiesel	-	-
	Ethanol	-	-
	Total Emissions CO2e (Tons)	-	95.1
	Emissions for Study Period	-	95.1
	Life Cycle Emissions CO2e (Tons)	1,201.7	

	Baseline Social Cost of Carbon	2020	2021
	SCC (\$/Ton)	\$ 73.0	\$ 74.1
	Electricity	\$ -	\$ 6,423.9
	Natural Gas	\$ -	\$ 624.6
	Diesel/#2	\$ -	\$ -
	#5/#6 Oil	\$ -	\$ -
	Gasoline	\$ -	\$ -
	LPG	\$ -	\$ -
	District Heat	\$ -	\$ -
	Coal	\$ -	\$ -
	Biomass	\$ -	\$ -
	Biodiesel	\$ -	\$ -
	Ethanol	\$ -	\$ -
	Total SCC	\$ -	\$ 7,048.5
	SCC for Study Period	\$ -	\$ 7,048.5
	NPV of Baseline SCC	\$10,201	

Average Annual kBTU/year	Alt. 1 Consumption	2020	2021
691177.0267	Electricity (KWh)	-	202,564.0
156500	Natural Gas (Therms)	-	1,565.0
0	Diesel/#2 (Gallons)	-	-
0	#5/#6 Oil (Gallons)	-	-
0	Gasoline (Gallons)	-	-
0	LPG (Gallons)	-	-
0	District Heat (mmBTU)	-	-

0	Coal (mmBTU)	-	-
0	Biomass (mmBTU)	-	-
0	Biodiesel (Gallons)	-	-
0	Ethanol (Gallons)	-	-

847,677			
	Alt. 1 CO2e Emission (Tons)	2020	2021
	Electricity	-	83.4
	Natural Gas	-	8.3
	Diesel/#2	-	-
	#5/#6 Oil	-	-
	Gasoline	-	-
	LPG	-	-
	District Heat	-	-
	Coal	-	-
	Biomass	-	-
	Biodiesel	-	-
	Ethanol	-	-
	Total Emissions CO2e (Tons)	-	91.7
	Emissions for Study Period	-	91.7
	Life Cycle Emissions CO2e (Tons)	1,166.4	

	Alt. 1 Social Cost of Carbon	2020	2021
	SCC (\$/Ton)	\$ 73.0	\$ 74.1
	Electricity	\$ -	\$ 6,181.8
	Natural Gas	\$ -	\$ 616.0
	Diesel/#2	\$ -	\$ -
	#5/#6 Oil	\$ -	\$ -
	Gasoline	\$ -	\$ -
	LPG	\$ -	\$ -
	District Heat	\$ -	\$ -
	Coal	\$ -	\$ -
	Biomass	\$ -	\$ -
	Biodiesel	\$ -	\$ -
	Ethanol	\$ -	\$ -
	Total SCC	\$ -	\$ 6,797.7
	SCC for Study Period	\$ -	\$ 6,797.7
	NPV of Alt. 1 SCC	\$9,838	

Average Annual			
kBTU/year	Alt. 2 Consumption	2020	2021
688351.7736	Electricity (KWh)	-	201,736.0
156300	Natural Gas (Therms)	-	1,563.0
0	Diesel/#2 (Gallons)	-	-
0	#5/#6 Oil (Gallons)	-	-
0	Gasoline (Gallons)	-	-
0	LPG (Gallons)	-	-
0	District Heat (mmBTU)	-	-

0	Coal (mmBTU)	-	-
0	Biomass (mmBTU)	-	-
0	Biodiesel (Gallons)	-	-
0	Ethanol (Gallons)	-	-
844,652			

Alt. 2 CO2e Emission (Tons)	2020	2021
Electricity	-	83.1
Natural Gas	-	8.3
Diesel/#2	-	-
#5/#6 Oil	-	-
Gasoline	-	-
LPG	-	-
District Heat	-	-
Coal	-	-
Biomass	-	-
Biodiesel	-	-
Ethanol	-	-
Total Emissions CO2e (Tons)	-	91.4
Emissions for Study Period	-	91.4
Life Cycle Emissions CO2e (Tons)	1,162.8	

Alt. 2 Social Cost of Carbon	2020	2021
SCC (\$/Ton)	\$ 73.0	\$ 74.1
Electricity	\$ -	\$ 6,156.5
Natural Gas	\$ -	\$ 615.2
Diesel/#2	\$ -	\$ -
#5/#6 Oil	\$ -	\$ -
Gasoline	\$ -	\$ -
LPG	\$ -	\$ -
District Heat	\$ -	\$ -
Coal	\$ -	\$ -
Biomass	\$ -	\$ -
Biodiesel	\$ -	\$ -
Ethanol	\$ -	\$ -
Total SCC	\$ -	\$ 6,771.7
SCC for Study Period	\$ -	\$ 6,771.7
NPV of Alt. 2 SCC	\$9,800	

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

2022	2023	2024	2025	2026
86.7	86.7	86.7	86.7	86.7
8.4	8.4	8.4	8.4	8.4
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
95.1	95.1	95.1	95.1	95.1
95.1	95.1	95.1	95.1	95.1

2022	2023	2024	2025	2026
\$ 75.2	\$ 76.4	\$ 77.5	\$ 78.7	\$ 79.8
\$ 6,522.7	\$ 6,621.5	\$ 6,720.4	\$ 6,819.2	\$ 6,918.0
\$ 634.2	\$ 643.8	\$ 653.4	\$ 663.1	\$ 672.7
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 7,156.9	\$ 7,265.4	\$ 7,373.8	\$ 7,482.2	\$ 7,590.7
\$ 7,156.9	\$ 7,265.4	\$ 7,373.8	\$ 7,482.2	\$ 7,590.7

2022	2023	2024	2025	2026
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

2022	2023	2024	2025	2026
83.4	83.4	83.4	83.4	83.4
8.3	8.3	8.3	8.3	8.3
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
91.7	91.7	91.7	91.7	91.7
91.7	91.7	91.7	91.7	91.7

2022	2023	2024	2025	2026
\$ 75.2	\$ 76.4	\$ 77.5	\$ 78.7	\$ 79.8
\$ 6,276.9	\$ 6,372.0	\$ 6,467.1	\$ 6,562.2	\$ 6,657.3
\$ 625.4	\$ 634.9	\$ 644.4	\$ 653.9	\$ 663.3
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 6,902.3	\$ 7,006.9	\$ 7,111.5	\$ 7,216.1	\$ 7,320.6
\$ 6,902.3	\$ 7,006.9	\$ 7,111.5	\$ 7,216.1	\$ 7,320.6

2022	2023	2024	2025	2026
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

2022	2023	2024	2025	2026
83.1	83.1	83.1	83.1	83.1
8.3	8.3	8.3	8.3	8.3
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
91.4	91.4	91.4	91.4	91.4
91.4	91.4	91.4	91.4	91.4

2022	2023	2024	2025	2026
\$ 75.2	\$ 76.4	\$ 77.5	\$ 78.7	\$ 79.8
\$ 6,251.2	\$ 6,345.9	\$ 6,440.7	\$ 6,535.4	\$ 6,630.1
\$ 624.6	\$ 634.1	\$ 643.6	\$ 653.0	\$ 662.5
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 6,875.9	\$ 6,980.0	\$ 7,084.2	\$ 7,188.4	\$ 7,292.6
\$ 6,875.9	\$ 6,980.0	\$ 7,084.2	\$ 7,188.4	\$ 7,292.6

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-	-	-	-	-
-	-	-	-	-

2027	2028	2029	2030	2031
86.7	86.7	86.7	-	-
8.4	8.4	8.4	8.4	8.4
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
95.1	95.1	95.1	8.4	8.4
95.1	95.1	95.1	8.4	8.4

2027	2028	2029	2030	2031
\$ 80.9	\$ 82.1	\$ 83.2	\$ 85.5	\$ 86.6
\$ 7,016.9	\$ 7,115.7	\$ 7,214.5	\$ -	\$ -
\$ 682.3	\$ 691.9	\$ 701.5	\$ 720.7	\$ 730.3
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 7,699.1	\$ 7,807.6	\$ 7,916.0	\$ 720.7	\$ 730.3
\$ 7,699.1	\$ 7,807.6	\$ 7,916.0	\$ 720.7	\$ 730.3

2027	2028	2029	2030	2031
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

2027	2028	2029	2030	2031
83.4	83.4	83.4	-	-
8.3	8.3	8.3	8.3	8.3
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
91.7	91.7	91.7	8.3	8.3
91.7	91.7	91.7	8.3	8.3

2027	2028	2029	2030	2031
\$ 80.9	\$ 82.1	\$ 83.2	\$ 85.5	\$ 86.6
\$ 6,752.4	\$ 6,847.5	\$ 6,942.6	\$ -	\$ -
\$ 672.8	\$ 682.3	\$ 691.8	\$ 710.7	\$ 720.2
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 7,425.2	\$ 7,529.8	\$ 7,634.4	\$ 710.7	\$ 720.2
\$ 7,425.2	\$ 7,529.8	\$ 7,634.4	\$ 710.7	\$ 720.2

2027	2028	2029	2030	2031
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

2027	2028	2029	2030	2031
83.1	83.1	83.1	-	-
8.3	8.3	8.3	8.3	8.3
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
91.4	91.4	91.4	8.3	8.3
91.4	91.4	91.4	8.3	8.3

2027	2028	2029	2030	2031
\$ 80.9	\$ 82.1	\$ 83.2	\$ 85.5	\$ 86.6
\$ 6,724.8	\$ 6,819.5	\$ 6,914.2	\$ -	\$ -
\$ 672.0	\$ 681.4	\$ 690.9	\$ 709.8	\$ 719.3
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 7,396.8	\$ 7,500.9	\$ 7,605.1	\$ 709.8	\$ 719.3
\$ 7,396.8	\$ 7,500.9	\$ 7,605.1	\$ 709.8	\$ 719.3

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

2032	2033	2034	2035	2036
-	-	-	-	-
8.4	8.4	8.4	8.4	8.4
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
8.4	8.4	8.4	8.4	8.4
8.4	8.4	8.4	8.4	8.4

2032	2033	2034	2035	2036
\$ 87.8	\$ 88.9	\$ 90.1	\$ 91.2	\$ 92.3
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 739.9	\$ 749.5	\$ 759.1	\$ 768.8	\$ 778.4
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 739.9	\$ 749.5	\$ 759.1	\$ 768.8	\$ 778.4
\$ 739.9	\$ 749.5	\$ 759.1	\$ 768.8	\$ 778.4

2032	2033	2034	2035	2036
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

2032	2033	2034	2035	2036
-	-	-	-	-
8.3	8.3	8.3	8.3	8.3
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3

2032	2033	2034	2035	2036
\$ 87.8	\$ 88.9	\$ 90.1	\$ 91.2	\$ 92.3
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 729.7	\$ 739.1	\$ 748.6	\$ 758.1	\$ 767.6
\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ 729.7	\$ 739.1	\$ 748.6	\$ 758.1	\$ 767.6
\$ 729.7	\$ 739.1	\$ 748.6	\$ 758.1	\$ 767.6

2032	2033	2034	2035	2036
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2032	2033	2034	2035	2036
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3

2032	2033	2034	2035	2036
\$ 87.8	\$ 88.9	\$ 90.1	\$ 91.2	\$ 92.3
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 728.7	\$ 738.2	\$ 747.7	\$ 757.1	\$ 766.6
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\$ 728.7	\$ 738.2	\$ 747.7	\$ 757.1	\$ 766.6
\$ 728.7	\$ 738.2	\$ 747.7	\$ 757.1	\$ 766.6

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2037	2038	2039	2040	2041
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
8.4	8.4	8.4	8.4	8.4

2037	2038	2039	2040	2041
\$ 94.6	\$ 95.8	\$ 96.9	\$ 98.0	\$ 99.2
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 797.6	\$ 807.2	\$ 816.8	\$ 826.4	\$ 836.0
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 797.6	\$ 807.2	\$ 816.8	\$ 826.4	\$ 836.0
\$ 797.6	\$ 807.2	\$ 816.8	\$ 826.4	\$ 836.0

2037	2038	2039	2040	2041
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2037	2038	2039	2040	2041
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3

2037	2038	2039	2040	2041
\$ 94.6	\$ 95.8	\$ 96.9	\$ 98.0	\$ 99.2
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 786.5	\$ 796.0	\$ 805.5	\$ 815.0	\$ 824.4
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 786.5	\$ 796.0	\$ 805.5	\$ 815.0	\$ 824.4
\$ 786.5	\$ 796.0	\$ 805.5	\$ 815.0	\$ 824.4

2037	2038	2039	2040	2041
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2037	2038	2039	2040	2041
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3

2037	2038	2039	2040	2041
\$ 94.6	\$ 95.8	\$ 96.9	\$ 98.0	\$ 99.2
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 785.5	\$ 795.0	\$ 804.4	\$ 813.9	\$ 823.4
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\$ 785.5	\$ 795.0	\$ 804.4	\$ 813.9	\$ 823.4
\$ 785.5	\$ 795.0	\$ 804.4	\$ 813.9	\$ 823.4

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2042	2043	2044	2045	2046	2047
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8.4	8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4	8.4
8.4	8.4	8.4	8.4	8.4	8.4

2042	2043	2044	2045	2046	2047
\$ 100.3	\$ 101.5	\$ 102.6	\$ 104.9	\$ 106.0	\$ 107.2
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 845.6	\$ 855.2	\$ 864.8	\$ 884.1	\$ 893.7	\$ 903.3
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\$ 845.6	\$ 855.2	\$ 864.8	\$ 884.1	\$ 893.7	\$ 903.3
\$ 845.6	\$ 855.2	\$ 864.8	\$ 884.1	\$ 893.7	\$ 903.3

2042	2043	2044	2045	2046	2047
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2042	2043	2044	2045	2046	2047
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8.3	8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3	8.3

2042	2043	2044	2045	2046	2047
\$ 100.3	\$ 101.5	\$ 102.6	\$ 104.9	\$ 106.0	\$ 107.2
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 833.9	\$ 843.4	\$ 852.9	\$ 871.8	\$ 881.3	\$ 890.8
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\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 833.9	\$ 843.4	\$ 852.9	\$ 871.8	\$ 881.3	\$ 890.8
\$ 833.9	\$ 843.4	\$ 852.9	\$ 871.8	\$ 881.3	\$ 890.8

2042	2043	2044	2045	2046	2047
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2042	2043	2044	2045	2046	2047
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8.3	8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3	8.3

2042	2043	2044	2045	2046	2047
\$ 100.3	\$ 101.5	\$ 102.6	\$ 104.9	\$ 106.0	\$ 107.2
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 832.8	\$ 842.3	\$ 851.8	\$ 870.7	\$ 880.2	\$ 889.6
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\$ 832.8	\$ 842.3	\$ 851.8	\$ 870.7	\$ 880.2	\$ 889.6
\$ 832.8	\$ 842.3	\$ 851.8	\$ 870.7	\$ 880.2	\$ 889.6

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2048	2049	2050	2051	2052
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
8.4	8.4	8.4	8.4	8.4

2048	2049	2050	2051	2052
\$ 108.3	\$ 109.4	\$ 110.6	\$ 111.7	\$ 112.9
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 912.9	\$ 922.5	\$ 932.1	\$ 941.7	\$ 951.3
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 912.9	\$ 922.5	\$ 932.1	\$ 941.7	\$ 951.3
\$ 912.9	\$ 922.5	\$ 932.1	\$ 941.7	\$ 951.3

2048	2049	2050	2051	2052
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2048	2049	2050	2051	2052
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3

2048	2049	2050	2051	2052
\$ 108.3	\$ 109.4	\$ 110.6	\$ 111.7	\$ 112.9
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 900.2	\$ 909.7	\$ 919.2	\$ 928.7	\$ 938.1
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 900.2	\$ 909.7	\$ 919.2	\$ 928.7	\$ 938.1
\$ 900.2	\$ 909.7	\$ 919.2	\$ 928.7	\$ 938.1

2048	2049	2050	2051	2052
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2048	2049	2050	2051	2052
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3

2048	2049	2050	2051	2052
\$ 108.3	\$ 109.4	\$ 110.6	\$ 111.7	\$ 112.9
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 899.1	\$ 908.6	\$ 918.0	\$ 927.5	\$ 936.9
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\$ 899.1	\$ 908.6	\$ 918.0	\$ 927.5	\$ 936.9
\$ 899.1	\$ 908.6	\$ 918.0	\$ 927.5	\$ 936.9

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2053	2054	2055	2056	2057
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
8.4	8.4	8.4	8.4	8.4

2053	2054	2055	2056	2057
\$ 114.0	\$ 115.1	\$ 116.3	\$ 117.4	\$ 118.6
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 960.9	\$ 970.6	\$ 980.2	\$ 989.8	\$ 999.4
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 960.9	\$ 970.6	\$ 980.2	\$ 989.8	\$ 999.4
\$ 960.9	\$ 970.6	\$ 980.2	\$ 989.8	\$ 999.4

2053	2054	2055	2056	2057
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2053	2054	2055	2056	2057
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3

2053	2054	2055	2056	2057
\$ 114.0	\$ 115.1	\$ 116.3	\$ 117.4	\$ 118.6
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 947.6	\$ 957.1	\$ 966.6	\$ 976.0	\$ 985.5
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 947.6	\$ 957.1	\$ 966.6	\$ 976.0	\$ 985.5
\$ 947.6	\$ 957.1	\$ 966.6	\$ 976.0	\$ 985.5

2053	2054	2055	2056	2057
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2053	2054	2055	2056	2057
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3

2053	2054	2055	2056	2057
\$ 114.0	\$ 115.1	\$ 116.3	\$ 117.4	\$ 118.6
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 946.4	\$ 955.9	\$ 965.3	\$ 974.8	\$ 984.3
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\$ 946.4	\$ 955.9	\$ 965.3	\$ 974.8	\$ 984.3
\$ 946.4	\$ 955.9	\$ 965.3	\$ 974.8	\$ 984.3

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2058	2059	2060	2061	2062	2063
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8.4	8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4	8.4
8.4	8.4	8.4	8.4	8.4	8.4

2058	2059	2060	2061	2062	2063
\$ 119.7	\$ 120.8	\$ 122.0	\$ 123.1	\$ 124.3	\$ 125.4
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,009.0	\$ 1,018.6	\$ 1,028.2	\$ 1,037.8	\$ 1,047.4	\$ 1,057.0
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\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,009.0	\$ 1,018.6	\$ 1,028.2	\$ 1,037.8	\$ 1,047.4	\$ 1,057.0
\$ 1,009.0	\$ 1,018.6	\$ 1,028.2	\$ 1,037.8	\$ 1,047.4	\$ 1,057.0

2058	2059	2060	2061	2062	2063
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2058	2059	2060	2061	2062	2063
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8.3	8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3	8.3

2058	2059	2060	2061	2062	2063
\$ 119.7	\$ 120.8	\$ 122.0	\$ 123.1	\$ 124.3	\$ 125.4
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 995.0	\$ 1,004.5	\$ 1,014.0	\$ 1,023.4	\$ 1,032.9	\$ 1,042.4
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\$ 995.0	\$ 1,004.5	\$ 1,014.0	\$ 1,023.4	\$ 1,032.9	\$ 1,042.4
\$ 995.0	\$ 1,004.5	\$ 1,014.0	\$ 1,023.4	\$ 1,032.9	\$ 1,042.4

2058	2059	2060	2061	2062	2063
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2058	2059	2060	2061	2062	2063
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8.3	8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3	8.3

2058	2059	2060	2061	2062	2063
\$ 119.7	\$ 120.8	\$ 122.0	\$ 123.1	\$ 124.3	\$ 125.4
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 993.7	\$ 1,003.2	\$ 1,012.7	\$ 1,022.1	\$ 1,031.6	\$ 1,041.1
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\$ 993.7	\$ 1,003.2	\$ 1,012.7	\$ 1,022.1	\$ 1,031.6	\$ 1,041.1
\$ 993.7	\$ 1,003.2	\$ 1,012.7	\$ 1,022.1	\$ 1,031.6	\$ 1,041.1

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2064	2065	2066	2067	2068
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
8.4	8.4	8.4	8.4	8.4

2064	2065	2066	2067	2068
\$ 126.5	\$ 127.7	\$ 128.8	\$ 130.0	\$ 131.1
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,066.6	\$ 1,076.3	\$ 1,085.9	\$ 1,095.5	\$ 1,105.1
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,066.6	\$ 1,076.3	\$ 1,085.9	\$ 1,095.5	\$ 1,105.1
\$ 1,066.6	\$ 1,076.3	\$ 1,085.9	\$ 1,095.5	\$ 1,105.1

2064	2065	2066	2067	2068
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2064	2065	2066	2067	2068
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3

2064	2065	2066	2067	2068
\$ 126.5	\$ 127.7	\$ 128.8	\$ 130.0	\$ 131.1
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,051.9	\$ 1,061.3	\$ 1,070.8	\$ 1,080.3	\$ 1,089.8
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,051.9	\$ 1,061.3	\$ 1,070.8	\$ 1,080.3	\$ 1,089.8
\$ 1,051.9	\$ 1,061.3	\$ 1,070.8	\$ 1,080.3	\$ 1,089.8

2064	2065	2066	2067	2068
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2064	2065	2066	2067	2068
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	8.3	8.3	8.3

2064	2065	2066	2067	2068
\$ 126.5	\$ 127.7	\$ 128.8	\$ 130.0	\$ 131.1
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,050.5	\$ 1,060.0	\$ 1,069.4	\$ 1,078.9	\$ 1,088.4
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\$ 1,050.5	\$ 1,060.0	\$ 1,069.4	\$ 1,078.9	\$ 1,088.4
\$ 1,050.5	\$ 1,060.0	\$ 1,069.4	\$ 1,078.9	\$ 1,088.4

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2069	2070	2071	2072	2073
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
8.4	8.4	-	-	-

2069	2070	2071	2072	2073
\$ 132.2	\$ 133.4	\$ 134.5	\$ 135.7	\$ 136.8
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,114.7	\$ 1,124.3	\$ 1,133.9	\$ 1,143.5	\$ 1,153.1
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,114.7	\$ 1,124.3	\$ 1,133.9	\$ 1,143.5	\$ 1,153.1
\$ 1,114.7	\$ 1,124.3	\$ -	\$ -	\$ -

2069	2070	2071	2072	2073
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2069	2070	2071	2072	2073
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	-	-	-

2069	2070	2071	2072	2073
\$ 132.2	\$ 133.4	\$ 134.5	\$ 135.7	\$ 136.8
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,099.2	\$ 1,108.7	\$ 1,118.2	\$ 1,127.7	\$ 1,137.1
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,099.2	\$ 1,108.7	\$ 1,118.2	\$ 1,127.7	\$ 1,137.1
\$ 1,099.2	\$ 1,108.7	\$ -	\$ -	\$ -

2069	2070	2071	2072	2073
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2069	2070	2071	2072	2073
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
8.3	8.3	-	-	-

2069	2070	2071	2072	2073
\$ 132.2	\$ 133.4	\$ 134.5	\$ 135.7	\$ 136.8
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,097.8	\$ 1,107.3	\$ 1,116.8	\$ 1,126.2	\$ 1,135.7
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\$ 1,097.8	\$ 1,107.3	\$ 1,116.8	\$ 1,126.2	\$ 1,135.7
\$ 1,097.8	\$ 1,107.3	\$ -	\$ -	\$ -

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2074	2075	2076	2077	2078
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
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2074	2075	2076	2077	2078
\$ 137.9	\$ 139.1	\$ 140.2	\$ 141.4	\$ 142.5
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,162.7	\$ 1,172.3	\$ 1,182.0	\$ 1,191.6	\$ 1,201.2
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,162.7	\$ 1,172.3	\$ 1,182.0	\$ 1,191.6	\$ 1,201.2
\$ -	\$ -	\$ -	\$ -	\$ -

2074	2075	2076	2077	2078
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2074	2075	2076	2077	2078
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2074	2075	2076	2077	2078
\$ 137.9	\$ 139.1	\$ 140.2	\$ 141.4	\$ 142.5
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,146.6	\$ 1,156.1	\$ 1,165.6	\$ 1,175.1	\$ 1,184.5
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,146.6	\$ 1,156.1	\$ 1,165.6	\$ 1,175.1	\$ 1,184.5
\$ -	\$ -	\$ -	\$ -	\$ -

2074	2075	2076	2077	2078
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2074	2075	2076	2077	2078
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2074	2075	2076	2077	2078
\$ 137.9	\$ 139.1	\$ 140.2	\$ 141.4	\$ 142.5
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,145.2	\$ 1,154.6	\$ 1,164.1	\$ 1,173.5	\$ 1,183.0
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,145.2	\$ 1,154.6	\$ 1,164.1	\$ 1,173.5	\$ 1,183.0
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2079	2080	2081	2082	2083
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
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2079	2080	2081	2082	2083
\$ 143.6	\$ 144.8	\$ 145.9	\$ 147.1	\$ 148.2
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,210.8	\$ 1,220.4	\$ 1,230.0	\$ 1,239.6	\$ 1,249.2
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,210.8	\$ 1,220.4	\$ 1,230.0	\$ 1,239.6	\$ 1,249.2
\$ -	\$ -	\$ -	\$ -	\$ -

2079	2080	2081	2082	2083
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2079	2080	2081	2082	2083
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8.3	8.3	8.3	8.3	8.3
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-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
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-	-	-	-	-
8.3	8.3	8.3	8.3	8.3
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2079	2080	2081	2082	2083
\$ 143.6	\$ 144.8	\$ 145.9	\$ 147.1	\$ 148.2
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,194.0	\$ 1,203.5	\$ 1,213.0	\$ 1,222.4	\$ 1,231.9
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,194.0	\$ 1,203.5	\$ 1,213.0	\$ 1,222.4	\$ 1,231.9
\$ -	\$ -	\$ -	\$ -	\$ -

2079	2080	2081	2082	2083
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2079	2080	2081	2082	2083
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2079	2080	2081	2082	2083
\$ 143.6	\$ 144.8	\$ 145.9	\$ 147.1	\$ 148.2
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,192.5	\$ 1,201.9	\$ 1,211.4	\$ 1,220.9	\$ 1,230.3
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,192.5	\$ 1,201.9	\$ 1,211.4	\$ 1,220.9	\$ 1,230.3
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2084	2085	2086	2087	2088
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
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2084	2085	2086	2087	2088
\$ 149.3	\$ 150.5	\$ 151.6	\$ 152.8	\$ 153.9
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,258.8	\$ 1,268.4	\$ 1,278.1	\$ 1,287.7	\$ 1,297.3
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,258.8	\$ 1,268.4	\$ 1,278.1	\$ 1,287.7	\$ 1,297.3
\$ -	\$ -	\$ -	\$ -	\$ -

2084	2085	2086	2087	2088
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2084	2085	2086	2087	2088
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2084	2085	2086	2087	2088
\$ 149.3	\$ 150.5	\$ 151.6	\$ 152.8	\$ 153.9
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,241.4	\$ 1,250.9	\$ 1,260.3	\$ 1,269.8	\$ 1,279.3
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,241.4	\$ 1,250.9	\$ 1,260.3	\$ 1,269.8	\$ 1,279.3
\$ -	\$ -	\$ -	\$ -	\$ -

2084	2085	2086	2087	2088
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2084	2085	2086	2087	2088
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2084	2085	2086	2087	2088
\$ 149.3	\$ 150.5	\$ 151.6	\$ 152.8	\$ 153.9
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,239.8	\$ 1,249.3	\$ 1,258.7	\$ 1,268.2	\$ 1,277.7
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\$ 1,239.8	\$ 1,249.3	\$ 1,258.7	\$ 1,268.2	\$ 1,277.7
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2089	2090	2091	2092	2093
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
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2089	2090	2091	2092	2093
\$ 155.0	\$ 156.2	\$ 157.3	\$ 158.5	\$ 159.6
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,306.9	\$ 1,316.5	\$ 1,326.1	\$ 1,335.7	\$ 1,345.3
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,306.9	\$ 1,316.5	\$ 1,326.1	\$ 1,335.7	\$ 1,345.3
\$ -	\$ -	\$ -	\$ -	\$ -

2089	2090	2091	2092	2093
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2089	2090	2091	2092	2093
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8.3	8.3	8.3	8.3	8.3
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-	-	-	-	-
-	-	-	-	-
8.3	8.3	8.3	8.3	8.3
-	-	-	-	-

2089	2090	2091	2092	2093
\$ 155.0	\$ 156.2	\$ 157.3	\$ 158.5	\$ 159.6
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,288.8	\$ 1,298.2	\$ 1,307.7	\$ 1,317.2	\$ 1,326.7
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,288.8	\$ 1,298.2	\$ 1,307.7	\$ 1,317.2	\$ 1,326.7
\$ -	\$ -	\$ -	\$ -	\$ -

2089	2090	2091	2092	2093
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2089	2090	2091	2092	2093
-	-	-	-	-
8.3	8.3	8.3	8.3	8.3
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-	-	-	-	-
8.3	8.3	8.3	8.3	8.3
-	-	-	-	-

2089	2090	2091	2092	2093
\$ 155.0	\$ 156.2	\$ 157.3	\$ 158.5	\$ 159.6
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,287.1	\$ 1,296.6	\$ 1,306.0	\$ 1,315.5	\$ 1,325.0
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,287.1	\$ 1,296.6	\$ 1,306.0	\$ 1,315.5	\$ 1,325.0
\$ -	\$ -	\$ -	\$ -	\$ -

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2094	2095	2096	2097	2098
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8.3	8.3	8.3	8.3	8.3
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-	-	-	-	-
8.3	8.3	8.3	8.3	8.3
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2094	2095	2096	2097	2098
\$ 160.7	\$ 161.9	\$ 163.0	\$ 164.2	\$ 165.3
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,336.1	\$ 1,345.6	\$ 1,355.1	\$ 1,364.6	\$ 1,374.1
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,336.1	\$ 1,345.6	\$ 1,355.1	\$ 1,364.6	\$ 1,374.1
\$ -	\$ -	\$ -	\$ -	\$ -

2094	2095	2096	2097	2098
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2094	2095	2096	2097	2098
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8.3	8.3	8.3	8.3	8.3
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-	-	-	-	-
8.3	8.3	8.3	8.3	8.3
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2094	2095	2096	2097	2098
\$ 160.7	\$ 161.9	\$ 163.0	\$ 164.2	\$ 165.3
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,334.4	\$ 1,343.9	\$ 1,353.4	\$ 1,362.8	\$ 1,372.3
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,334.4	\$ 1,343.9	\$ 1,353.4	\$ 1,362.8	\$ 1,372.3
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2099	2100	2101	2102	2103
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8.4	8.4	8.4	8.4	8.4
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-	-	-	-	-
8.4	8.4	8.4	8.4	8.4
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2099	2100	2101	2102	2103
\$ 166.4	\$ 167.6	\$ 168.7	\$ 169.9	\$ 171.0
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,403.0	\$ 1,412.6	\$ 1,422.2	\$ 1,431.8	\$ 1,441.4
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\$ 1,403.0	\$ 1,412.6	\$ 1,422.2	\$ 1,431.8	\$ 1,441.4
\$ -	\$ -	\$ -	\$ -	\$ -

2099	2100	2101	2102	2103
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2099	2100	2101	2102	2103
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2099	2100	2101	2102	2103
\$ 166.4	\$ 167.6	\$ 168.7	\$ 169.9	\$ 171.0
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,383.5	\$ 1,393.0	\$ 1,402.5	\$ 1,412.0	\$ 1,421.4
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,383.5	\$ 1,393.0	\$ 1,402.5	\$ 1,412.0	\$ 1,421.4
\$ -	\$ -	\$ -	\$ -	\$ -

2099	2100	2101	2102	2103
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2099	2100	2101	2102	2103
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2099	2100	2101	2102	2103
\$ 166.4	\$ 167.6	\$ 168.7	\$ 169.9	\$ 171.0
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,381.8	\$ 1,391.2	\$ 1,400.7	\$ 1,410.2	\$ 1,419.6
\$ -	\$ -	\$ -	\$ -	\$ -
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,381.8	\$ 1,391.2	\$ 1,400.7	\$ 1,410.2	\$ 1,419.6
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2104	2105	2106	2107	2108
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
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2104	2105	2106	2107	2108
\$ 172.1	\$ 173.3	\$ 174.4	\$ 175.6	\$ 176.7
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,451.0	\$ 1,460.6	\$ 1,470.2	\$ 1,479.9	\$ 1,489.5
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,451.0	\$ 1,460.6	\$ 1,470.2	\$ 1,479.9	\$ 1,489.5
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2104	2105	2106	2107	2108
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2104	2105	2106	2107	2108
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2104	2105	2106	2107	2108
\$ 172.1	\$ 173.3	\$ 174.4	\$ 175.6	\$ 176.7
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,430.9	\$ 1,440.4	\$ 1,449.9	\$ 1,459.3	\$ 1,468.8
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,430.9	\$ 1,440.4	\$ 1,449.9	\$ 1,459.3	\$ 1,468.8
\$ -	\$ -	\$ -	\$ -	\$ -

2104	2105	2106	2107	2108
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2104	2105	2106	2107	2108
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2104	2105	2106	2107	2108
\$ 172.1	\$ 173.3	\$ 174.4	\$ 175.6	\$ 176.7
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,429.1	\$ 1,438.5	\$ 1,448.0	\$ 1,457.5	\$ 1,466.9
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\$ 1,429.1	\$ 1,438.5	\$ 1,448.0	\$ 1,457.5	\$ 1,466.9
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2109	2110	2111	2112	2113
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
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2109	2110	2111	2112	2113
\$ 177.8	\$ 179.0	\$ 180.1	\$ 181.3	\$ 182.4
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,499.1	\$ 1,508.7	\$ 1,518.3	\$ 1,527.9	\$ 1,537.5
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\$ 1,499.1	\$ 1,508.7	\$ 1,518.3	\$ 1,527.9	\$ 1,537.5
\$ -	\$ -	\$ -	\$ -	\$ -

2109	2110	2111	2112	2113
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2109	2110	2111	2112	2113
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2109	2110	2111	2112	2113
\$ 177.8	\$ 179.0	\$ 180.1	\$ 181.3	\$ 182.4
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,478.3	\$ 1,487.8	\$ 1,497.2	\$ 1,506.7	\$ 1,516.2
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\$ 1,478.3	\$ 1,487.8	\$ 1,497.2	\$ 1,506.7	\$ 1,516.2
\$ -	\$ -	\$ -	\$ -	\$ -

2109	2110	2111	2112	2113
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2109	2110	2111	2112	2113
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2109	2110	2111	2112	2113
\$ 177.8	\$ 179.0	\$ 180.1	\$ 181.3	\$ 182.4
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,476.4	\$ 1,485.9	\$ 1,495.3	\$ 1,504.8	\$ 1,514.3
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\$ 1,476.4	\$ 1,485.9	\$ 1,495.3	\$ 1,504.8	\$ 1,514.3
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2114	2115	2116	2117	2118
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8.4	8.4	8.4	8.4	8.4
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8.4	8.4	8.4	8.4	8.4
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2114	2115	2116	2117	2118
\$ 183.5	\$ 184.7	\$ 185.8	\$ 187.0	\$ 188.1
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,547.1	\$ 1,556.7	\$ 1,566.3	\$ 1,575.9	\$ 1,585.6
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\$ 1,547.1	\$ 1,556.7	\$ 1,566.3	\$ 1,575.9	\$ 1,585.6
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2114	2115	2116	2117	2118
202,564.0	202,564.0	202,564.0	202,564.0	202,564.0
1,565.0	1,565.0	1,565.0	1,565.0	1,565.0
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2114	2115	2116	2117	2118
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2114	2115	2116	2117	2118
\$ 183.5	\$ 184.7	\$ 185.8	\$ 187.0	\$ 188.1
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,525.7	\$ 1,535.1	\$ 1,544.6	\$ 1,554.1	\$ 1,563.6
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\$ 1,525.7	\$ 1,535.1	\$ 1,544.6	\$ 1,554.1	\$ 1,563.6
\$ -	\$ -	\$ -	\$ -	\$ -

2114	2115	2116	2117	2118
201,736.0	201,736.0	201,736.0	201,736.0	201,736.0
1,563.0	1,563.0	1,563.0	1,563.0	1,563.0
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2114	2115	2116	2117	2118
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8.3	8.3	8.3	8.3	8.3
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8.3	8.3	8.3	8.3	8.3
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2114	2115	2116	2117	2118
\$ 183.5	\$ 184.7	\$ 185.8	\$ 187.0	\$ 188.1
\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,523.7	\$ 1,533.2	\$ 1,542.6	\$ 1,552.1	\$ 1,561.6
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\$ -	\$ -	\$ -	\$ -	\$ -
\$ 1,523.7	\$ 1,533.2	\$ 1,542.6	\$ 1,552.1	\$ 1,561.6
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2119	2120
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8.4	8.4
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8.4	8.4
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2119	2120
\$ 188.1	\$ 188.1
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\$ 1,585.6	\$ 1,585.6
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\$ 1,585.6	\$ 1,585.6
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2119	2120
202,564.0	202,564.0
1,565.0	1,565.0
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2119	2120
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8.3	8.3
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8.3	8.3
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2119	2120
\$ 188.1	\$ 188.1
\$ -	\$ -
\$ 1,563.6	\$ 1,563.6
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\$ 1,563.6	\$ 1,563.6
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2119	2120
201,736.0	201,736.0
1,563.0	1,563.0
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2119	2120
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8.3	8.3
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8.3	8.3
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2119	2120
\$ 188.1	\$ 188.1
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\$ 1,561.6	\$ 1,561.6
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\$ 1,561.6	\$ 1,561.6
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2117	2118
164	165
186.96	188.1

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**Office of Financial Management
 Olympia, Washington - Version: 2020-A
 Life Cycle Cost Analysis Tool
 General Information Page**

Project Information	
Project Name	retail
Address	
City	
Zip Code	
Building Square Feet (Gross)	24,695
Useable Square Feet	
Building Type (i.e. Office, School)	
Construction Type (i.e. New, Retrofit)	
Project Phase	
Report Version/Revision	
Date of Report	

User Information	
Company Name	
User First Name	
User Last Name	
Contact Number	
Contact Email	

All Fields Above Must Be Completed

Key Variables	<input type="radio"/> OFM	<input checked="" type="radio"/> User	Value
Building Life	50	50	50
Real Discount Rate	0.70%	70.00%	70.00%
Standard Maintenance Escalation	1.00%	1.00%	1.00%
General Inflation	2.42%	2.42%	2.42%
Study Period (years)	50	50	50
Fuel Escalation Assumptions Located on Fuel Escalation Page			

User Inputs are for sensitivity analysis only, final submissions must be made using OFM inputs

Timing Variables	Year(s)
Base Year (Generally Current Year)	2020
Additional Construction Years beyond 2020	0

1st Operation Year = 2021

Finance 1st Purchases for ->	<input type="checkbox"/> Baseline	<input type="checkbox"/> Alt. 1	<input type="checkbox"/> Alt. 2
Down Payment (%)	20%	20%	20%
Term (Years)	15	15	15
Nominal Interest Rate	3.14%	3.14%	3.14%
Real Interest Rate	0.70%	0.70%	0.70%

Office of Financial Management
Olympia, Washington - Version: 2020-A
Life Cycle Cost Analysis Tool
Baseline Input Page

Show All Entered Units (Requires Re-Filter)

Total Building Annual Utility Analysis	\$ 19,317
Annual Utility Bill [\$]	
Annual Utility Consumption Not Entered Below	
Sum of Annual Utility Consumption Below	
Total Annual Utility Consumption	
Annual Utility Bill ÷ Total Utility Consumption	

Uniformat II Elemental Classification for Buildings (Building Component List)		REF	# of Units	Useful Life (Yrs.)	Installed Cost (\$/Unit)	1st Year Maintenance Cost (\$/Unit)	Total Component Installed Cost (\$'s)
Primary Entries Below: # of Units must be > 0 to be counted; Useful Life must be >= 2							\$ 14,557
A	Substructure						
A10	Foundations						
A1010	Standard Foundations						
A101001	Wall Foundations						
A101002	Column Foundations And Pile Caps						
A101003	Dewatering						
A101099	Other Standard Foundations						
A101098	Other						
A101097	Other						
A1020	Special Foundations						
A102001	Pile Foundations						
A102002	Caissons						
A102003	Underpinning						
A102004	Dewatering						
A102005	Raft Foundations						
A102006	Pressure Injected Grouting						
A102099	Other Special Foundations						
A102098	Other						
A102097	Other						
A1030	Slab on Grade						
A103001	Standard Slab On Grade						

A103002	Structural Slab On Grade					
A103003	Inclined Slab On Grade					
A103004	Trenches					
A103005	Pits And Bases					
A103006	Foundation Drainage					
A103099	Other Slab On Grade					
A103098	Other					
A103097	Other					
A20	Basement Construction					
A2010	Basement Excavation					
A201001	Excavation For Basements					
A201002	Structure Backfill And Compaction					
A201003	Shoring					
A201099	Other Basement Excavation					
A201098	Other					
A201097	Other					
A2020	Basement Walls					
A202001	Basement Wall Construction					
A202002	Moisture Protection					
A202003	Basement Wall Insulation					
A202099	Other Basement Walls					
A202098	Other					
A202097	Other					
B	Shell					
B10	Superstructure					
B1010	Floor Construction					
B101001	Structural Frame					
B101002	Structural Interior Walls					
B101003	Floor Decks And Slabs					
B101004	Balcony Construction					
B101005	Ramps					
B101006	Floor Raceway Systems					
B101007	Inclined And Stepped Floors					
B101099	Other Floor Construction					
B101098	Other					
B101097	Other					
B1020	Roof Construction					

B102011	Structural Frame					
B102002	Structural Interior Walls					
B102003	Roof Decks And Slabs					
B102004	Canopies					
B102099	Other Roof Construction					
B102098	Other					
B102097	Other					
B20	Exterior Enclosure					
B2010	Exterior Walls					
B201001	Exterior Closure					
B201002	Exterior Wall Backup Construction					
B201003	Insulation And Vapor Retarder					
B201004	Parapets					
B201005	Exterior Louvers And Screens					
B201006	Sun Control Devices (Exterior)					
B201007	Balcony Walls And Railings					
B201008	Exterior Soffits					
B201009	Screen Wall					
B201010	Exterior Coatings					
B201011	Joint Sealant					
B201099	Other Exterior Walls					
B201098	Vermiculite, 50% of Cores		11198	51	\$1.30	\$ 14,557
B201097	R-9.5 CI					
B202098	R-11.2 CI					
B202097	Other					
B2030	Exterior Doors					
B203001	Solid Doors					
B203002	Glazed Doors					
B203003	Revolving Doors					
B203004	Overhead And Roll-Up Doors					
B203005	Hangar Doors					
B203006	Blast Resistant Doors					
B203007	Gates					
B203008	Exterior Door Hardware					
B203098	Other Exterior Specialty Doors					
B203099	Other Exterior Personnel Doors					
B203098	Other					

B203097	Other					
B30	Roofing					
B3010	Roof Covering					
B301001	High Slope Roof Coverings					
B301002	Low Slope Membrane Systems					
B301003	Roof Insulation And Fill					
B301004	Flashings And Trim					
B301005	Gutters And Downspouts					
B301006	Roof Openings And Supports					
B301099	Other Roofing					
B301098	Other					
B301097	Other					
B3020	Roof Openings					
B302099	Other Roof Openings					
B302098	Other					
B302097	Other					
C	Interiors					
C10	Interior Construction					
C1010	Partitions					
C101001	Fixed Partitions					
C101002	Demountable Partitions					
C101003	Retractable Partitions					
C101004	Interior Guardrails And Screens					
C101005	Interior Windows					
C101006	Glazed Partitions And Storefronts					
C101007	Interior Glazing					
C101008	Joint Sealant					
C101099	Other Partitions					
C101098	Other					
C101097	Other					
C1020	Interior Doors					
C102001	Standard Interior Doors					
C102002	Glazed Interior Doors					
C102003	Fire Doors					
C102004	Sliding And Folding Doors					
C102005	Interior Overhead Doors					
C102006	Interior Gates					

C102007	Interior Door Hardware					
C102098	Other Interior Specialty Doors					
C102099	Other Interior Personnel Doors					
C102098	Other					
C102097	Other					
C1030	Fittings					
C103001	Compartments, Cubicles & Toilet Partitions					
C103002	Toilet And Bath Accessories					
C103003	Marker Boards And Tack Boards					
C103004	Identifying Devices					
C103005	Lockers					
C103006	Shelving					
C103007	Fire Extinguisher Cabinets					
C103008	Counters					
C103009	Cabinets					
C103010	Closets					
C103011	Fire stopping Penetrations					
C103012	Sprayed Fire-Resistive Materials					
C103013	Raised Access Flooring					
C103014	Casework					
C103099	Other Interior Specialties					
C103098	Other					
C103097	Other					
C20	Stairs					
C2010	Stair Construction					
C201001	Interior Stair Construction					
C201002	Exterior Stair Construction					
C201099	Other Stair Construction					
C201098	Other					
C201097	Other					
C2020	Stair Finishes					
C202001	Interior Stair Finish					
C202099	Other Stair Finish					
C202098	Other					
C202097	Other					
C30	Interior Finishes					
C3010	Wall Finishes					

C301001	Concrete Wall Finishes					
C301002	Plaster Wall Finishes					
C301003	Gypsum Wallboard Finishes					
C301004	Tile And Terrazzo Wall Finishes					
C301005	Painting To Walls					
C301006	Wall Coverings					
C301007	Acoustical Panels Adhered To Walls					
C301008	Special Coatings To Walls					
C301099	Other Wall Finishes					
C301098	Other					
C301097	Other					
C3020	Floor Finishes					
C302001	Tile Floor Finishes					
C302002	Terrazzo Floor Finishes					
C302003	Wood Flooring					
C302004	Resilient Floor Finishes					
C302005	Carpeting					
C302006	Masonry And Stone Flooring					
C302007	Painting And Staining Floors					
C302008	Wall Base Finishes					
C302009	Floor Toppings And Traffic Membranes					
C302010	Hardeners And Sealers					
C302099	Other Flooring And Floor Finishes					
C302098	Other					
C302097	Other					
C3030	Ceiling Finishes					
C303001	Exposed Concrete Finishes					
C303002	Plaster Ceiling Finishes					
C303003	Gypsum Wallboard Ceiling Finishes					
C303004	Acoustical Ceiling Tiles And Panels					
C303005	Wood Ceilings					
C303006	Painting And Staining Ceilings					
C303007	Suspensions Systems					
C303008	Metal Strip Ceilings					
C303099	Other Ceiling And Ceiling Finishes					
C303098	Other					
C303097	Other					

D	Services						
D10	Conveying Systems						
D1010	Elevators & Lifts						
D101001	General Construction Items						
D101002	Passenger Elevators						
D101003	Freight Elevators						
D101004	Wheelchair Lift						
D101099	Other Elevators						
D101098	Other						
D101097	Other						
D1020	Escalators & Moving Walks						
D102001	Moving Stairs						
D102002	Moving Walks						
D102099	Other Moving Stairs And Walks						
D102098	Other						
D102097	Other						
D1090	Other Conveying Systems						
D109001	Pneumatic Tube Systems						
D109002	Conveyors						
D109003	Linen, Trash, And Mail Chutes						
D109004	Turntables						
D109005	Operable Scaffolding						
D109006	Transportation Systems						
D109007	Overhead Cranes						
D109099	Other Material Handling Systems						
D109098	Other						
D109097	Other						
D20	Plumbing						
D2010	Plumbing Fixtures						
D201001	Waterclosets						
D201002	Urinals						
D201003	Lavatories						
D201004	Sinks						
D201005	Showers/Tubs						
D201006	Drinking Fountains And Coolers						
D201007	Bidets						
D201099	Emergency Fixtures						

D201098	Other					
D201097	Other					
D2020	Domestic Water Distribution					
D202001	Pipes And Fittings					
D202002	Valves And Hydrants					
D202003	Domestic Water Equipment					
D202004	Insulation And Identification					
D202005	Specialties					
D202099	Other Domestic Water Supply					
D202098	Other					
D202097	Other					
D2030	Sanitary Waste					
D203001	Waste Pipe And Fittings					
D203002	Vent Pipe And Fittings					
D203003	Floor Drains					
D203004	Sanitary And Vent Equipment					
D203005	Insulation And Identification					
D203099	Other Sanitary Waste					
D203098	Other					
D203097	Other					
D2040	Rain Water Drainage					
D204001	Pipe And Fittings					
D204002	Roof Drains					
D204003	Rainwater Drainage Equipment					
D204004	Insulation And Identification					
D204099	Other Rain Water Drainage System					
D204098	Other					
D204097	Other					
D2090	Other Plumbing Systems					
D209001	Special Piping Systems					
D209002	Acid Waste Systems					
D209003	Interceptors					
D209004	Pool Piping And Equipment					
D209005	Compressed Air System (Non-Breathing)					
D209099	Other Special Plumbing Systems					
D209098	Other					
D209097	Other					

D30	HVAC					
D3010	Energy Supply					
D301001	Oil Supply System					
D301002	Gas Supply System					
D301003	Coal Supply System					
D301004	Steam Supply System (From Central Plant)					
D301005	Hot Water Supply System (From Central Plant)					
D301006	Solar Energy Supply Systems					
D301007	Wind Energy Supply System					
D301099	Other Energy Supply					
D300198	Other					
D300197	Other					
D3020	Heat Generating Systems					
D302001	Steam Boilers					
D302002	Hot Water Boilers					
D302003	Furnaces					
D302004	Fuel-Fired Unit Heaters					
D302005	Auxiliary Equipment					
D302006	Equipment Thermal Insulation					
D302099	Other Heat Generating Systems					
D302098	Other					
D302097	Other					
D3030	Cooling Generating Systems					
D303001	Chilled Water Systems					
D303002	Direct Expansion Systems					
D303099	Other Cooling Generating Systems					
D303098	Other					
D303097	Other					
D3040	Distribution Systems					
D304001	Air Distribution, Heating, And Cooling					
D304002	Steam Distribution Systems					
D304003	Hot Water Distribution Systems					
D304004	Change Over Distribution Systems					
D304005	Glycol Distribution Systems					
D304006	Chilled Water Distribution Systems					
D304007	Exhaust Systems					
D304008	Air Handling Units					

D304099	Other Distribution Systems					
D304098	Other					
D304097	Other					
D3050	Terminal & Package Units					
D305001	Unit Ventilators					
D305002	Unit Heaters					
D305003	Fan Coil Units					
D305004	Fin Tube Radiation					
D305005	Electric Heating					
D305006	Package Units					
D305099	Other Terminal And Package Units					
D305098	Other					
D305097	Other					
D3060	Controls & Instrumentation					
D306001	HVAC Controls					
D306002	Electronic Controls					
D306003	Pneumatic Controls					
D306004	Instrument Air Compressors					
D306005	Gas Purging Systems					
D306099	Other Controls Instrumentation					
D306098	Other					
D306097	Other					
D3070	Systems Testing & Balancing					
D307001	Water Side Testing And Balancing—H & C					
D307002	Air Side Testing And Balancing—H, C & E					
D307003	HVAC Commissioning					
D307099	Other Systems Testing And Balancing					
D307098	Other					
D307097	Other					
D3090	Other HVAC Systems & Equipment					
D309001	General Construction Items					
D309002	Refrigeration Systems					
D309099	Other Special Mechanical Systems					
D309098	Other					
D309097	Other					
D40	Fire Protection					
D4010	Sprinklers					

D401001	Sprinklers And Releasing Devices					
D401002	Sprinkler Water Supply Equipment & Piping					
D409099	Other Sprinklers					
D409098	Other					
D409097	Other					
D4020	Standpipes					
D402001	Standpipe Equipment And Piping					
D402099	Other Standpipes					
D402097	Other					
D4030	Fire Protection Specialties					
D403001	Fire Extinguishing Devices					
D403099	Other Fire Protection Specialties					
D403098	Other					
D403097	Other					
D4040	Other Fire Protection Systems					
D409001	Carbon Dioxide Systems					
D409002	Foam Generating Equipment					
D409003	Clean Agent Systems					
D409005	Hood And Duct Fire Protection					
D409099	Other Special Fire Protection Systems					
D409098	Other					
D409097	Other					
D50	Electrical					
D5010	Electrical Service & Distribution					
D501001	Main Transformers					
D501002	Secondary					
D501003	Main Switchboards					
D501004	Interior Distribution Transformers					
D501005	Panels					
D501006	Enclosed Circuit Breakers					
D501007	Motor Control Centers					
D501099	Other Service And Distribution					
D501098	Other					
D501097	Other					
D5020	Lighting & Branch Wiring					
D502001	Branch Wiring					
D502002	Lighting Equipment					

D502099	Other Lighting And Branch Wiring					
D502098	Other					
D502097	Other					
D5030	Communication & Security Systems					
D503001	Fire Alarm Systems					
D503002	Telecommunications Systems					
D503003	Nurse Call Systems					
D503004	Public Address Systems					
D503005	Intercommunications Systems					
D503006	Clock And Program Systems					
D503007	Television Systems					
D503008	Security Systems					
D503099	Other Communications And Alarm Systems					
D503098	Other					
D503097	Other					
D5090	Other Electrical Systems					
D509001	General Construction Items (Electrical)					
D509002	Emergency Lighting And Power					
D509003	Grounding Systems					
D509004	Lightning Protection					
D509005	Electric Heating					
D509006	Energy Management Control System					
D509099	Other Special Systems And Devices					
D509098	Other					
D509097	Other					
E	Equipment & Furnishings					
E10	Equipment					
E1010	Commercial Equipment					
E101001	Checkroom Equipment					
E101002	Registration Equipment					
E101003	Vending Equipment					
E101004	Laundry Equipment					
E101005	Security And Vault Equipment					
E101006	Teller And Service Equipment					
E101007	Mercantile Equipment					
E101008	Office Equipment					
E101099	Other Commercial Equipment					

E101098	Other					
E101097	Other					
E1020	Institutional Equipment					
E102001	Miscellaneous Fixed & Moveable Equipment					
E102002	Medical Equipment					
E102003	Laboratory Equipment					
E102004	Mortuary Equipment					
E102005	Auditorium And Stage Equipment					
E102006	Library Equipment					
E102007	Ecclesiastical Equipment					
E102008	Instrumental Equipment					
E102009	Audio-Visual Equipment					
E102010	Detention Equipment					
E102099	Other Institutional Equipment					
E102098	Other					
E102097	Other					
E1030	Vehicular Equipment					
E103001	Parking Control Equipment					
E103002	Loading Dock Equipment					
E103003	Warehouse Equipment					
E103099	Other Vehicular Equipment					
E103098	Other					
E103097	Other					
E1090	Other Equipment					
E109001	Built-In Maintenance Equipment					
E109002	Food Service Equipment					
E109003	Waste Handling Equipment					
E109004	Residential Equipment					
E109005	Unit Kitchens					
E109006	Darkroom Equipment					
E109007	Athletic, Recreational, And Therapeutic Equipment					
E109008	Planetarium Equipment					
E109009	Observatory Equipment					
E109010	Agricultural Equipment					
E109099	Other Specialized Fixed And Moveable Equipment					
E109098	Other					
E109097	Other					

E20	Fixed Furnishings					
E2010	Fixed Furnishings					
E201001	Fixed Artwork					
E201002	Window Treatments					
E201003	Seating (Fixed)					
E201004	Fixed Floor Grilles And Mats					
E201005	Fixed Interior Landscaping					
E201099	Other Fixed Interior Furnishings					
E201098	Other					
E201097	Other					
E2020	Movable Furnishings					
E202001	Moveable Art Work					
E202002	Modular Prefabricated Furniture					
E202003	Freestanding Furniture					
E202004	Rugs And Accessories					
E202005	Moveable Multiple Seating					
E202006	Moveable Interior Landscaping					
E202099	Other Moveable Furnishings					
E202098	Other					
E202097	Other					
F	Special Construction & Demolition					
F10	Special Construction					
F1010	Special Structures					
F101001	Metal Building Systems					
F101002	Exterior Utility Buildings					
F101003	Air-Supported Structures					
F101099	Other Special Construction					
F101098	Other					
F101097	Other					
F1020	Integrated Construction					
F102001	Special Purpose Rooms					
F102002	Integrated Assemblies					
F102099	Other Integrated Construction					
F102098	Other					
F102097	Other					
F1030	Special Construction Systems					
F103001	Vaults					

F103002	Sound, Vibration, & Seismic Construction					
F103003	Radiation Protection					
F103099	Other Special Construction Systems					
F103098	Other					
F103097	Other					
F1040	Special Facilities					
F104001	Interior Swimming Pools					
F104002	Liquid And Gas Storage Tanks					
F104003	Kennels And Animal Shelters					
F104004	Site Constructed Incinerators					
F104005	Ice Rinks					
F104099	Other Special Facilities					
F104098	Other					
F104097	Other					
F1050	Special Controls and Instrumentation					
F105001	Recording Instrumentation					
F105002	Building Automation Systems					
F105099	Other Special Controls And Instrumentation					
F105098	Other					
F105097	Other					
F20	Selective Building Demolition					
F2010	Building Elements Demolition					
F201001	Substructure And Superstructure					
F201002	Exterior Closure					
F201003	Roofing					
F201004	Interior Construction And Finishes					
F201005	Conveying Systems					
F201006	Mechanical Systems					
F201007	Electrical Systems					
F201008	Equipment And Furnishings					
F201099	Other Non-Hazardous Selective Building Demolition					
F201098	Other					
F201097	Other					
F2020	Hazardous Components Abatement					
F202001	Substructure And Superstructure					
F202002	Exterior Closure					
F202003	Roofing					

F202004	Interior Construction And Finishes					
F202005	Conveying Systems					
F202006	Mechanical Systems					
F202007	Electrical Systems					
F202008	Equipment And Furnishings					
F202099	Other Hazardous Selective Building Demolition					
F202098	Other					
F202097	Other					
G	Building Sitework					
G10	Site Preparation					
G1010	Site Clearing					
G101001	Clearing					
G101002	Tree Removal					
G101003	Stump Removal					
G101004	Chipping					
G101005	Grubbing					
G101006	Selective Thinning					
G101007	Debris Disposal					
G101099	Other Site Clearing					
G101098	Other					
G101097	Other					
G1020	Site Demolition & Relocation					
G102001	Building Mass Demolition					
G102002	Above Ground Site Demolition					
G102003	Underground Site Demolition					
G102004	Building Relocation					
G102005	Utility Relocation					
G102006	Fencing Relocation					
G102007	Site Cleanup					
G102099	Other Site Demolition And Relocations					
G102098	Other					
G102097	Other					
G1030	Site Earthwork					
G103001	Grading					
G103002	Common Excavation					
G103003	Rock Excavation					
G103004	Fill And Borrow					

G103005	Compaction						
G103006	Soil Stabilization						
G103007	Slope Stabilization						
G103008	Soil Treatment						
G103009	Shoring						
G103010	Temporary Dewatering						
G103011	Temporary Erosion And Sediment Control						
G103099	Other Site Earthwork						
G103098	Other						
G103097	Other						
G1040	Hazardous Waste Remediation						
G104001	Removal Of Contaminated Soil						
G104002	Soil Restoration And Treatment						
G104099	Other Hazardous Waste Remediation						
G104098	Other						
G104097	Other						
G20	Site Improvements						
G2010	Roadways						
G201001	Bases And Subbases						
G201002	Curbs And Gutters						
G201003	Paved Surfaces						
G201004	Marking And Signage						
G201005	Guardrails And Barriers						
G201006	Resurfacing						
G201099	Other Roadways						
G201098	Other						
G201097	Other						
G2020	Parking Lots						
G202001	Bases And Subbases						
G202002	Curbs And Gutters						
G202003	Paved Surfaces						
G202004	Marking And Signage						
G202005	Guardrails And Barriers						
G202006	Resurfacing						
G202007	Miscellaneous Structures And Equipment						
G202099	Other Parking Lots						
G202098	Other						

G202097	Other					
G2030	Pedestrian Paving					
G203001	Bases And Subbases					
G203002	Curbs And Gutters					
G203003	Paved Surfaces					
G203004	Guardrails And Barriers					
G203005	Resurfacing					
G203099	Other Walks, Steps, And Terraces					
G203098	Other					
G203097	Other					
G2040	Site Development					
G204001	Fencing And Gates					
G204002	Retaining Walls					
G204003	Exterior Furnishings					
G204004	Security Structures					
G204005	Signage					
G204006	Fountains And Pools					
G204007	Playing Fields					
G204008	Terrace And Perimeter Walls					
G204009	Flagpoles					
G204099	Other Site Improvements					
G204098	Other					
G204097	Other					
G2050	Landscaping					
G205001	Fine Grading And Soil Preparation					
G205002	Erosion Control Measures					
G205003	Topsoil And Planting Beds					
G205004	Seeding, Sprigging, And Sodding					
G205005	Plantings					
G205006	Planters					
G205007	Irrigation Systems					
G205099	Other Landscaping					
G205098	Other					
G205097	Other					
G30	Site Civil/Mechanical Utilities					
G3010	G3010 Water Supply					
G301001	Well Systems					

G301002	Potable Water Distribution						
G301003	Potable Water Storage						
G301004	Fire Protection Water Distribution						
G301005	Fire Protection Water Storage						
G301006	Non-Potable Water Distribution						
G301007	Pumping Stations						
G301008	Packaged Water Treatment Plants						
G301099	Other Water Supply						
G301098	Other						
G301097	Other						
G3020	Sanitary Sewer						
G302001	Sanitary Sewer Piping						
G302002	Sanitary Sewer Manholes And Cleanouts						
G302003	Lift Stations And Pumping Stations						
G302004	Packaged Sanitary Sewer Treatment Plants						
G302005	Septic Tanks						
G302006	Drain Fields						
G302099	Other Sanitary Sewer						
G302098	Other						
G302097	Other						
G3030	Storm Sewer						
G303001	Storm Sewer Piping						
G303002	Storm Sewer Structures						
G303003	Lift Stations						
G303004	Culverts						
G303005	Headwalls						
G303006	Erosion And Sediment Control Measures						
G303007	Stormwater Management						
G303099	Other Storm Sewer						
G303098	Other						
G303097	Other						
G3040	Heating Distribution						
G304001	Overhead Hot Water Systems						
G304002	Overhead Steam Systems						
G304003	Underground Hot Water Systems						
G304004	Underground Steam Distribution Systems						
G304005	Reinforced Concrete Manholes & Valve Boxes						

G304006	Pumping Stations					
G304099	Other Heating Distribution					
G304098	Other					
G304097	Other					
G3050	Cooling Distribution					
G305001	Overhead Cooling Systems					
G305002	Underground Cooling Systems					
G305003	Trenchboxes					
G305004	Wells For Cooling					
G305005	Pumping Stations					
G305006	On-Site Cooling Towers					
G305099	Other Cooling Distribution					
G305098	Other					
G305097	Other					
G3060	Fuel Distribution					
G306001	Liquid Fuel Distribution Piping					
G306002	Aviation Fuel Distribution Piping System					
G306003	Liquid Fuel Dispensing Equipment					
G306004	Liquid Fuel Storage Tanks					
G306005	Liquid Fuel System Trenchboxes					
G306006	Gas Distribution Piping (Natural And Propane)					
G306007	Gas Storage Tanks					
G306008	Gas System Trenchboxes					
G306098	Other Gas Distribution					
G306099	Other Fuel Distribution					
G306098	Other					
G306097	Other					
G3090	Other Site Mechanical Utilities					
G309001	Industrial Waste Pipe					
G309002	Industrial Waste Manholes And Cleanouts					
G309003	Industrial Waste Lift Stations					
G309004	Industrial Waste Holding Tanks & Separators					
G309005	Industrial Waste Trenchboxes					
G309099	Other Industrial Waste					
G309098	Other					
G309097	Other					
G40	Site Electrical Utilities					

G4010	Electrical Distribution					
G401001	Substations					
G401002	Transformers					
G401003	Switches, Controls And Devices					
G401004	Overhead Electric Conductors					
G401005	Towers, Poles, Crossarms And Insulators					
G401006	Underground Electric Conductors					
G401007	Ductbanks, Manholes, Handholes, & Raceways					
G401008	Grounding Systems					
G401009	Metering					
G401099	Other Electric Transmission And Distribution					
G401098	Other					
G401097	Other					
G4020	Site Lighting					
G402001	Transformers					
G402002	Overhead Electric Conductors					
G402003	Towers, Poles, Crossarms, And Insulators					
G402004	Underground Electric Conductors					
G402005	Ductbanks, Manholes And Handholes					
G402006	Exterior Lighting Fixtures And Controls					
G402007	Grounding Systems					
G402008	Special Security Lighting Systems					
G402099	Other Area Lighting					
G402098	Other					
G402097	Other					
G4030	Site Communications & Security					
G403001	Telecommunications Systems					
G403002	Sound Systems					
G403003	Fire Alarm Systems					
G403004	Cable TV Systems (Catv)					
G403005	Cables And Wiring					
G403006	Ductbanks, Manholes And Handholes					
G403007	Towers, Poles, And Stands					
G403008	TV Cameras And Monitors					
G403009	Grounding Systems					
G403098	Other Communication And Alarm					
G403099	Other Security Systems					

G403098	Other						
G403097	Other						
G4040	Other Site Electrical Utilities						
G409001	Sacrificial Anode Cathodic Protection System						
G409002	Induced Current Cathodic Protection System						
G409003	Emergency Power Generation						
G409099	Other Cathodic Protection						
G409098	Other						
G409097	Other						
G90	Other Site Construction						
G9010	Service and Pedestrian Tunnels						
G901001	Construction Of Service & Pedestrian Tunnels						
G901002	Prefabricated Service And Pedestrian Tunnels						
G909099	Other Service and Pedestrian Tunnels						
G901098	Other						
G901097	Other						
G9090	Other Site Systems & Equipment						
G909001	Bridges						
G909002	Railroad Spurs						
G909003	Snow Melting Systems						
G909099	Other Special Construction						
G909098	Other						
G909097	Other						
X	Other Categories						
X90	Other Categories						
X9010	Other						
X901001	Other						
X901002	Other						
X901003	Other						
X901004	Other						
X901005	Other						
X901006	Other						
X901007	Other						
X901008	Other						
X901009	Other						
X901010	Other						
X9020	Other						

X902001	Other						
X902002	Other						
X902003	Other						
X902004	Other						
X902005	Other						
X902006	Other						
X902007	Other						
X902008	Other						
X902009	Other						
X902010	Other						
X9030	Other						
X903001	Other						
X903002	Other						
X903003	Other						
X903004	Other						
X903005	Other						
X903006	Other						
X903007	Other						
X903008	Other						
X903009	Other						
X903010	Other						
X9040	Other						
X904001	Other						
X904002	Other						
X904003	Other						
X904004	Other						
X904005	Other						
X904006	Other						
X904007	Other						
X904008	Other						
X904009	Other						
X904010	Other						
X9050	Other						
X905001	Other						
X905002	Other						
X905003	Other						
X905004	Other						

X905005	Other						
X905006	Other						
X905007	Other						
X905008	Other						
X905009	Other						
X905010	Other						
X9060	Other						
X906001	Other						
X906002	Other						
X906003	Other						
X906004	Other						
X906005	Other						
X906006	Other						
X906007	Other						
X906008	Other						
X906009	Other						
X906010	Other						
X9070	Other						
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X907004	Other						
X907005	Other						
X907006	Other						
X907007	Other						
X907008	Other						
X907009	Other						
X907010	Other						
X9080	Other						
X908001	Other						
X908002	Other						
X908003	Other						
X908004	Other						
X908005	Other						
X908006	Other						
X908007	Other						
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X908009	Other						
X908010	Other						
X9090	Other						
X909001	Other						
X909002	Other						
X909003	Other						
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X909006	Other						
X909007	Other						
X909008	Other						
X909009	Other						
X909010	Other						
X9100	Other						
X910001	Other						
X910002	Other						
X910003	Other						
X910004	Other						
X910005	Other						
X910006	Other						
X910007	Other						
X910008	Other						
X910009	Other						
X910010	Other						
Y	Other Categories						
Y90	Other Categories						
Y9010	Other						
Y901001	Other						
Y901002	Other						
Y901003	Other						
Y901004	Other						
Y901005	Other						
Y901006	Other						
Y901007	Other						
Y901008	Other						
Y901009	Other						
Y901010	Other						

Y9020	Other						
Y902001	Other						
Y902002	Other						
Y902003	Other						
Y902004	Other						
Y902005	Other						
Y902006	Other						
Y902007	Other						
Y902008	Other						
Y902009	Other						
Y902010	Other						
Y9030	Other						
Y903001	Other						
Y903002	Other						
Y903003	Other						
Y903004	Other						
Y903005	Other						
Y903006	Other						
Y903007	Other						
Y903008	Other						
Y903009	Other						
Y903010	Other						
Y9040	Other						
Y904001	Other						
Y904002	Other						
Y904003	Other						
Y904004	Other						
Y904005	Other						
Y904006	Other						
Y904007	Other						
Y904008	Other						
Y904009	Other						
Y904010	Other						
Y9050	Other						
Y905001	Other						
Y905002	Other						
Y905003	Other						

Y905004	Other						
Y905005	Other						
Y905006	Other						
Y905007	Other						
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Y905009	Other						
Y905010	Other						
Y9060	Other						
Y906001	Other						
Y906002	Other						
Y906003	Other						
Y906004	Other						
Y906005	Other						
Y906006	Other						
Y906007	Other						
Y906008	Other						
Y906009	Other						
Y906010	Other						
Y9070	Other						
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Y907002	Other						
Y907003	Other						
Y907004	Other						
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Y907008	Other						
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Y907010	Other						
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Y908001	Other						
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Y908008	Other					
Y908009	Other					
Y908010	Other					
Y9090	Other					
Y909001	Other					
Y909002	Other					
Y909003	Other					
Y909004	Other					
Y909005	Other					
Y909006	Other					
Y909007	Other					
Y909008	Other					
Y909009	Other					
Y909010	Other					
Y9100	Other					
Y910001	Other					
Y910002	Other					
Y910003	Other					
Y910004	Other					
Y910005	Other					
Y910006	Other					
Y910007	Other					
Y910008	Other					
Y910009	Other					
Y910010	Other					
Z	Other Project Costs					
Z10	One Time - Upfront Costs		1	50		
Z1010	Agency Project Management		1	50		
Z1010	Consultant Services		1	50		
Z1030	Project Contingency		1	50		
Z1030	GC/CM or D/B Management Costs		1	50		
Z1030	DES Management Fees		1	50		
Z1040	Higher/Lower 1st Costs vs. Replacement Costs		1	50		
Z1050	Other One Time - Upfront Cost		1	50		
Z1060	Other One Time - Upfront Cost		1	50		
Z1070	Other One Time - Upfront Cost		1	50		
Z1080	Other One Time - Upfront Cost		1	50		

Z1090	Other One Time - Upfront Cost		1	50		
Z109099	Other		1	50		
Z108098	Other		1	50		
Z107097	Other		1	50		
Z106096	Other		1	50		
Z105095	Other		1	50		
Z104094	Other		1	50		
Z103093	Other		1	50		
Z102092	Other		1	50		
Z101091	Other		1	50		
Z100090	Other		1	50		
Z20	Other One Time - Upfront Costs		1	50		
Z2010	Other One Time - Upfront Cost		1	50		
Z2020	Other One Time - Upfront Cost		1	50		
Z3020	Other One Time - Upfront Cost		1	50		
Z2030	Other One Time - Upfront Cost		1	50		
Z2040	Other One Time - Upfront Cost		1	50		
Z2050	Other One Time - Upfront Cost		1	50		
Z205099	Other		1	50		
Z205098	Other		1	50		
Z205097	Other		1	50		
Z205096	Other		1	50		
Z205095	Other		1	50		
Z205094	Other		1	50		
Z205093	Other		1	50		
Z205092	Other		1	50		
Z205091	Other		1	50		
Z30	Re-Occurring Annual Cost (Track Inflation)		1	1		
Z3010	Other Re-Occurring Annual Cost		1	1		
Z3020	Other Re-Occurring Annual Cost		1	1		

Custom Year By Year Entries in Constant2020 Dollars (Manually Show Row and Reference in Narrative)			2020	2021
		Custom Capital Cost #1	0	
		Custom Capital Cost #2	0	
		Custom Capital Cost #3	0	
		Custom Capital Cost #4	0	

		Custom Capital Cost #5	0	
		Custom Maintenance #1	0	
		Custom Maintenance #2	0	
		Custom Maintenance #3	0	
		Custom Maintenance #4	0	
		Custom Maintenance #5	0	
		Custom Utility #1 (Electricity)	0	
		Custom Utility #2 (Natural Gas)	0	
		Custom Utility #3	0	
		Custom Utility #4	0	
		Custom Utility #5	0	
		Custom Financing #1	0	

Office of Financial Management
Olympia, Washington - Version: 2020-A
Life Cycle Cost Analysis Tool
Alternative 1 Input Page

<input type="radio"/> Manual Special Selection Only (Requires Refilter)	
<input checked="" type="radio"/> Show Baseline Fields and Entered Units (Requires Refilter)	
<input type="radio"/> Show Differences Between Alternative and Baseline (Req. Refilter)	
Total Building Annual Utility Analysis	\$ 18,620
Annual Utility Bill [\$]	
Annual Utility Consumption Not Entered Below	
Sum of Annual Utility Consumption Below	
Total Annual Utility Consumption	
Annual Utility Bill ÷ Total Utility Consumption	

Uniformat II Elemental Classification for Buildings (Building Component List)		REF	# of Units	Useful Life (Yrs.)	Installed Cost (\$/Unit)	1st Year Maintenance Cost (\$/Unit)	Total Component Installed Cost (\$'s)
Primary Entries Below: # of Units must be > 0 to be counted; Useful Life must be >= 2							
Match Baseline: Filter to Select All & Drag Copy O14:S14 & U14:AG14							\$ 14,445
A	Substructure						
A10	Foundations						
A1010	Standard Foundations						
A101001	Wall Foundations						
A101002	Column Foundations And Pile Caps						
A101003	Dewatering						
A101099	Other Standard Foundations						
A101098	Other						
A101097	Other						
A1020	Special Foundations						
A102001	Pile Foundations						
A102002	Caissons						
A102003	Underpinning						
A102004	Dewatering						
A102005	Raft Foundations						
A102006	Pressure Injected Grouting						
A102099	Other Special Foundations						
A102098	Other						
A102097	Other						

A1030	Slab on Grade				
A103001	Standard Slab On Grade				
A103002	Structural Slab On Grade				
A103003	Inclined Slab On Grade				
A103004	Trenches				
A103005	Pits And Bases				
A103006	Foundation Drainage				
A103099	Other Slab On Grade				
A103098	Other				
A103097	Other				
A20	Basement Construction				
A2010	Basement Excavation				
A201001	Excavation For Basements				
A201002	Structure Backfill And Compaction				
A201003	Shoring				
A201099	Other Basement Excavation				
A201098	Other				
A201097	Other				
A2020	Basement Walls				
A202001	Basement Wall Construction				
A202002	Moisture Protection				
A202003	Basement Wall Insulation				
A202099	Other Basement Walls				
A202098	Other				
A202097	Other				
B	Shell				
B10	Superstructure				
B1010	Floor Construction				
B101001	Structural Frame				
B101002	Structural Interior Walls				
B101003	Floor Decks And Slabs				
B101004	Balcony Construction				
B101005	Ramps				
B101006	Floor Raceway Systems				
B101007	Inclined And Stepped Floors				
B101099	Other Floor Construction				
B101098	Other				

B101097	Other					
B1020	Roof Construction					
B102011	Structural Frame					
B102002	Structural Interior Walls					
B102003	Roof Decks And Slabs					
B102004	Canopies					
B102099	Other Roof Construction					
B102098	Other					
B102097	Other					
B20	Exterior Enclosure					
B2010	Exterior Walls					
B201001	Exterior Closure					
B201002	Exterior Wall Backup Construction					
B201003	Insulation And Vapor Retarder					
B201004	Parapets					
B201005	Exterior Louvers And Screens					
B201006	Sun Control Devices (Exterior)					
B201007	Balcony Walls And Railings					
B201008	Exterior Soffits					
B201009	Screen Wall					
B201010	Exterior Coatings					
B201011	Joint Sealant					
B201099	Other Exterior Walls					
B201098	Vermiculite, 50% of Cores					
B201097	R-9.5 CI	11198	51	\$1.29		\$ 14,445
B202098	R-11.2 CI					
B202097	Other					
B2030	Exterior Doors					
B203001	Solid Doors					
B203002	Glazed Doors					
B203003	Revolving Doors					
B203004	Overhead And Roll-Up Doors					
B203005	Hangar Doors					
B203006	Blast Resistant Doors					
B203007	Gates					
B203008	Exterior Door Hardware					
B203098	Other Exterior Specialty Doors					

B203099	Other Exterior Personnel Doors				
B203098	Other				
B203097	Other				
B30	Roofing				
B3010	Roof Covering				
B301001	High Slope Roof Coverings				
B301002	Low Slope Membrane Systems				
B301003	Roof Insulation And Fill				
B301004	Flashings And Trim				
B301005	Gutters And Downspouts				
B301006	Roof Openings And Supports				
B301099	Other Roofing				
B301098	Other				
B301097	Other				
B3020	Roof Openings				
B302099	Other Roof Openings				
B302098	Other				
B302097	Other				
C	Interiors				
C10	Interior Construction				
C1010	Partitions				
C101001	Fixed Partitions				
C101002	Demountable Partitions				
C101003	Retractable Partitions				
C101004	Interior Guardrails And Screens				
C101005	Interior Windows				
C101006	Glazed Partitions And Storefronts				
C101007	Interior Glazing				
C101008	Joint Sealant				
C101099	Other Partitions				
C101098	Other				
C101097	Other				
C1020	Interior Doors				
C102001	Standard Interior Doors				
C102002	Glazed Interior Doors				
C102003	Fire Doors				
C102004	Sliding And Folding Doors				

C102005	Interior Overhead Doors				
C102006	Interior Gates				
C102007	Interior Door Hardware				
C102098	Other Interior Specialty Doors				
C102099	Other Interior Personnel Doors				
C102098	Other				
C102097	Other				
C1030	Fittings				
C103001	Compartments, Cubicles & Toilet Partitions				
C103002	Toilet And Bath Accessories				
C103003	Marker Boards And Tack Boards				
C103004	Identifying Devices				
C103005	Lockers				
C103006	Shelving				
C103007	Fire Extinguisher Cabinets				
C103008	Counters				
C103009	Cabinets				
C103010	Closets				
C103011	Fire stopping Penetrations				
C103012	Sprayed Fire-Resistive Materials				
C103013	Raised Access Flooring				
C103014	Casework				
C103099	Other Interior Specialties				
C103098	Other				
C103097	Other				
C20	Stairs				
C2010	Stair Construction				
C201001	Interior Stair Construction				
C201002	Exterior Stair Construction				
C201099	Other Stair Construction				
C201098	Other				
C201097	Other				
C2020	Stair Finishes				
C202001	Interior Stair Finish				
C202099	Other Stair Finish				
C202098	Other				
C202097	Other				

C30	Interior Finishes				
C3010	Wall Finishes				
C301001	Concrete Wall Finishes				
C301002	Plaster Wall Finishes				
C301003	Gypsum Wallboard Finishes				
C301004	Tile And Terrazzo Wall Finishes				
C301005	Painting To Walls				
C301006	Wall Coverings				
C301007	Acoustical Panels Adhered To Walls				
C301008	Special Coatings To Walls				
C301099	Other Wall Finishes				
C301098	Other				
C301097	Other				
C3020	Floor Finishes				
C302001	Tile Floor Finishes				
C302002	Terrazzo Floor Finishes				
C302003	Wood Flooring				
C302004	Resilient Floor Finishes				
C302005	Carpeting				
C302006	Masonry And Stone Flooring				
C302007	Painting And Staining Floors				
C302008	Wall Base Finishes				
C302009	Floor Toppings And Traffic Membranes				
C302010	Hardeners And Sealers				
C302099	Other Flooring And Floor Finishes				
C302098	Other				
C302097	Other				
C3030	Ceiling Finishes				
C303001	Exposed Concrete Finishes				
C303002	Plaster Ceiling Finishes				
C303003	Gypsum Wallboard Ceiling Finishes				
C303004	Acoustical Ceiling Tiles And Panels				
C303005	Wood Ceilings				
C303006	Painting And Staining Ceilings				
C303007	Suspensions Systems				
C303008	Metal Strip Ceilings				
C303099	Other Ceiling And Ceiling Finishes				

C303098	Other				
C303097	Other				
D	Services				
D10	Conveying Systems				
D1010	Elevators & Lifts				
D101001	General Construction Items				
D101002	Passenger Elevators				
D101003	Freight Elevators				
D101004	Wheelchair Lift				
D101099	Other Elevators				
D101098	Other				
D101097	Other				
D1020	Escalators & Moving Walks				
D102001	Moving Stairs				
D102002	Moving Walks				
D102099	Other Moving Stairs And Walks				
D102098	Other				
D102097	Other				
D1090	Other Conveying Systems				
D109001	Pneumatic Tube Systems				
D109002	Conveyors				
D109003	Linen, Trash, And Mail Chutes				
D109004	Turntables				
D109005	Operable Scaffolding				
D109006	Transportation Systems				
D109007	Overhead Cranes				
D109099	Other Material Handling Systems				
D109098	Other				
D109097	Other				
D20	Plumbing				
D2010	Plumbing Fixtures				
D201001	Waterclosets				
D201002	Urinals				
D201003	Lavatories				
D201004	Sinks				
D201005	Showers/Tubs				
D201006	Drinking Fountains And Coolers				

D201007	Bidets				
D201099	Emergency Fixtures				
D201098	Other				
D201097	Other				
D2020	Domestic Water Distribution				
D202001	Pipes And Fittings				
D202002	Valves And Hydrants				
D202003	Domestic Water Equipment				
D202004	Insulation And Identification				
D202005	Specialties				
D202099	Other Domestic Water Supply				
D202098	Other				
D202097	Other				
D2030	Sanitary Waste				
D203001	Waste Pipe And Fittings				
D203002	Vent Pipe And Fittings				
D203003	Floor Drains				
D203004	Sanitary And Vent Equipment				
D203005	Insulation And Identification				
D203099	Other Sanitary Waste				
D203098	Other				
D203097	Other				
D2040	Rain Water Drainage				
D204001	Pipe And Fittings				
D204002	Roof Drains				
D204003	Rainwater Drainage Equipment				
D204004	Insulation And Identification				
D204099	Other Rain Water Drainage System				
D204098	Other				
D204097	Other				
D2090	Other Plumbing Systems				
D209001	Special Piping Systems				
D209002	Acid Waste Systems				
D209003	Interceptors				
D209004	Pool Piping And Equipment				
D209005	Compressed Air System (Non-Breathing)				
D209099	Other Special Plumbing Systems				

D209098	Other				
D209097	Other				
D30	HVAC				
D3010	Energy Supply				
D301001	Oil Supply System				
D301002	Gas Supply System				
D301003	Coal Supply System				
D301004	Steam Supply System (From Central Plant)				
D301005	Hot Water Supply System (From Central Plant)				
D301006	Solar Energy Supply Systems				
D301007	Wind Energy Supply System				
D301099	Other Energy Supply				
D300198	Other				
D300197	Other				
D3020	Heat Generating Systems				
D302001	Steam Boilers				
D302002	Hot Water Boilers				
D302003	Furnaces				
D302004	Fuel-Fired Unit Heaters				
D302005	Auxiliary Equipment				
D302006	Equipment Thermal Insulation				
D302099	Other Heat Generating Systems				
D302098	Other				
D302097	Other				
D3030	Cooling Generating Systems				
D303001	Chilled Water Systems				
D303002	Direct Expansion Systems				
D303099	Other Cooling Generating Systems				
D303098	Other				
D303097	Other				
D3040	Distribution Systems				
D304001	Air Distribution, Heating, And Cooling				
D304002	Steam Distribution Systems				
D304003	Hot Water Distribution Systems				
D304004	Change Over Distribution Systems				
D304005	Glycol Distribution Systems				
D304006	Chilled Water Distribution Systems				

D304007	Exhaust Systems				
D304008	Air Handling Units				
D304099	Other Distribution Systems				
D304098	Other				
D304097	Other				
D3050	Terminal & Package Units				
D305001	Unit Ventilators				
D305002	Unit Heaters				
D305003	Fan Coil Units				
D305004	Fin Tube Radiation				
D305005	Electric Heating				
D305006	Package Units				
D305099	Other Terminal And Package Units				
D305098	Other				
D305097	Other				
D3060	Controls & Instrumentation				
D306001	HVAC Controls				
D306002	Electronic Controls				
D306003	Pneumatic Controls				
D306004	Instrument Air Compressors				
D306005	Gas Purging Systems				
D306099	Other Controls Instrumentation				
D306098	Other				
D306097	Other				
D3070	Systems Testing & Balancing				
D307001	Water Side Testing And Balancing—H & C				
D307002	Air Side Testing And Balancing—H, C & E				
D307003	HVAC Commissioning				
D307099	Other Systems Testing And Balancing				
D307098	Other				
D307097	Other				
D3090	Other HVAC Systems & Equipment				
D309001	General Construction Items				
D309002	Refrigeration Systems				
D309099	Other Special Mechanical Systems				
D309098	Other				
D309097	Other				

D40	Fire Protection				
D4010	Sprinklers				
D401001	Sprinklers And Releasing Devices				
D401002	Sprinkler Water Supply Equipment & Piping				
D409099	Other Sprinklers				
D409098	Other				
D409097	Other				
D4020	Standpipes				
D402001	Standpipe Equipment And Piping				
D402099	Other Standpipes				
D402097	Other				
D4030	Fire Protection Specialties				
D403001	Fire Extinguishing Devices				
D403099	Other Fire Protection Specialties				
D403098	Other				
D403097	Other				
D4040	Other Fire Protection Systems				
D409001	Carbon Dioxide Systems				
D409002	Foam Generating Equipment				
D409003	Clean Agent Systems				
D409005	Hood And Duct Fire Protection				
D409099	Other Special Fire Protection Systems				
D409098	Other				
D409097	Other				
D50	Electrical				
D5010	Electrical Service & Distribution				
D501001	Main Transformers				
D501002	Secondary				
D501003	Main Switchboards				
D501004	Interior Distribution Transformers				
D501005	Panels				
D501006	Enclosed Circuit Breakers				
D501007	Motor Control Centers				
D501099	Other Service And Distribution				
D501098	Other				
D501097	Other				
D5020	Lighting & Branch Wiring				

D502001	Branch Wiring					
D502002	Lighting Equipment					
D502099	Other Lighting And Branch Wiring					
D502098	Other					
D502097	Other					
D5030	Communication & Security Systems					
D503001	Fire Alarm Systems					
D503002	Telecommunications Systems					
D503003	Nurse Call Systems					
D503004	Public Address Systems					
D503005	Intercommunications Systems					
D503006	Clock And Program Systems					
D503007	Television Systems					
D503008	Security Systems					
D503099	Other Communications And Alarm Systems					
D503098	Other					
D503097	Other					
D5090	Other Electrical Systems					
D509001	General Construction Items (Electrical)					
D509002	Emergency Lighting And Power					
D509003	Grounding Systems					
D509004	Lightning Protection					
D509005	Electric Heating					
D509006	Energy Management Control System					
D509099	Other Special Systems And Devices					
D509098	Other					
D509097	Other					
E	Equipment & Furnishings					
E10	Equipment					
E1010	Commercial Equipment					
E101001	Checkroom Equipment					
E101002	Registration Equipment					
E101003	Vending Equipment					
E101004	Laundry Equipment					
E101005	Security And Vault Equipment					
E101006	Teller And Service Equipment					

E101007	Mercantile Equipment					
E101008	Office Equipment					
E101099	Other Commercial Equipment					
E101098	Other					
E101097	Other					
E1020	Institutional Equipment					
E102001	Miscellaneous Fixed & Moveable Equipment					
E102002	Medical Equipment					
E102003	Laboratory Equipment					
E102004	Mortuary Equipment					
E102005	Auditorium And Stage Equipment					
E102006	Library Equipment					
E102007	Ecclesiastical Equipment					
E102008	Instrumental Equipment					
E102009	Audio-Visual Equipment					
E102010	Detention Equipment					
E102099	Other Institutional Equipment					
E102098	Other					
E102097	Other					
E1030	Vehicular Equipment					
E103001	Parking Control Equipment					
E103002	Loading Dock Equipment					
E103003	Warehouse Equipment					
E103099	Other Vehicular Equipment					
E103098	Other					
E103097	Other					
E1090	Other Equipment					
E109001	Built-In Maintenance Equipment					
E109002	Food Service Equipment					
E109003	Waste Handling Equipment					
E109004	Residential Equipment					
E109005	Unit Kitchens					
E109006	Darkroom Equipment					
E109007	Athletic, Recreational, And Therapeutic Equipment					
E109008	Planetarium Equipment					
E109009	Observatory Equipment					
E109010	Agricultural Equipment					

E109099	Other Specialized Fixed And Moveable Equipment					
E109098	Other					
E109097	Other					
E20	Fixed Furnishings					
E2010	Fixed Furnishings					
E201001	Fixed Artwork					
E201002	Window Treatments					
E201003	Seating (Fixed)					
E201004	Fixed Floor Grilles And Mats					
E201005	Fixed Interior Landscaping					
E201099	Other Fixed Interior Furnishings					
E201098	Other					
E201097	Other					
E2020	Movable Furnishings					
E202001	Moveable Art Work					
E202002	Modular Prefabricated Furniture					
E202003	Freestanding Furniture					
E202004	Rugs And Accessories					
E202005	Moveable Multiple Seating					
E202006	Moveable Interior Landscaping					
E202099	Other Moveable Furnishings					
E202098	Other					
E202097	Other					
F	Special Construction & Demolition					
F10	Special Construction					
F1010	Special Structures					
F101001	Metal Building Systems					
F101002	Exterior Utility Buildings					
F101003	Air-Supported Structures					
F101099	Other Special Construction					
F101098	Other					
F101097	Other					
F1020	Integrated Construction					
F102001	Special Purpose Rooms					
F102002	Integrated Assemblies					
F102099	Other Integrated Construction					
F102098	Other					

F102097	Other				
F1030	Special Construction Systems				
F103001	Vaults				
F103002	Sound, Vibration, & Seismic Construction				
F103003	Radiation Protection				
F103099	Other Special Construction Systems				
F103098	Other				
F103097	Other				
F1040	Special Facilities				
F104001	Interior Swimming Pools				
F104002	Liquid And Gas Storage Tanks				
F104003	Kennels And Animal Shelters				
F104004	Site Constructed Incinerators				
F104005	Ice Rinks				
F104099	Other Special Facilities				
F104098	Other				
F104097	Other				
F1050	Special Controls and Instrumentation				
F105001	Recording Instrumentation				
F105002	Building Automation Systems				
F105099	Other Special Controls And Instrumentation				
F105098	Other				
F105097	Other				
F20	Selective Building Demolition				
F2010	Building Elements Demolition				
F201001	Substructure And Superstructure				
F201002	Exterior Closure				
F201003	Roofing				
F201004	Interior Construction And Finishes				
F201005	Conveying Systems				
F201006	Mechanical Systems				
F201007	Electrical Systems				
F201008	Equipment And Furnishings				
F201099	Other Non-Hazardous Selective Building Demolition				
F201098	Other				
F201097	Other				
F2020	Hazardous Components Abatement				

F202001	Substructure And Superstructure				
F202002	Exterior Closure				
F202003	Roofing				
F202004	Interior Construction And Finishes				
F202005	Conveying Systems				
F202006	Mechanical Systems				
F202007	Electrical Systems				
F202008	Equipment And Furnishings				
F202099	Other Hazardous Selective Building Demolition				
F202098	Other				
F202097	Other				
G	Building Sitework				
G10	Site Preparation				
G1010	Site Clearing				
G101001	Clearing				
G101002	Tree Removal				
G101003	Stump Removal				
G101004	Chipping				
G101005	Grubbing				
G101006	Selective Thinning				
G101007	Debris Disposal				
G101099	Other Site Clearing				
G101098	Other				
G101097	Other				
G1020	Site Demolition & Relocation				
G102001	Building Mass Demolition				
G102002	Above Ground Site Demolition				
G102003	Underground Site Demolition				
G102004	Building Relocation				
G102005	Utility Relocation				
G102006	Fencing Relocation				
G102007	Site Cleanup				
G102099	Other Site Demolition And Relocations				
G102098	Other				
G102097	Other				
G1030	Site Earthwork				
G103001	Grading				

G103002	Common Excavation					
G103003	Rock Excavation					
G103004	Fill And Borrow					
G103005	Compaction					
G103006	Soil Stabilization					
G103007	Slope Stabilization					
G103008	Soil Treatment					
G103009	Shoring					
G103010	Temporary Dewatering					
G103011	Temporary Erosion And Sediment Control					
G103099	Other Site Earthwork					
G103098	Other					
G103097	Other					
G1040	Hazardous Waste Remediation					
G104001	Removal Of Contaminated Soil					
G104002	Soil Restoration And Treatment					
G104099	Other Hazardous Waste Remediation					
G104098	Other					
G104097	Other					
G20	Site Improvements					
G2010	Roadways					
G201001	Bases And Subbases					
G201002	Curbs And Gutters					
G201003	Paved Surfaces					
G201004	Marking And Signage					
G201005	Guardrails And Barriers					
G201006	Resurfacing					
G201099	Other Roadways					
G201098	Other					
G201097	Other					
G2020	Parking Lots					
G202001	Bases And Subbases					
G202002	Curbs And Gutters					
G202003	Paved Surfaces					
G202004	Marking And Signage					
G202005	Guardrails And Barriers					
G202006	Resurfacing					

G202007	Miscellaneous Structures And Equipment					
G202099	Other Parking Lots					
G202098	Other					
G202097	Other					
G2030	Pedestrian Paving					
G203001	Bases And Subbases					
G203002	Curbs And Gutters					
G203003	Paved Surfaces					
G203004	Guardrails And Barriers					
G203005	Resurfacing					
G203099	Other Walks, Steps, And Terraces					
G203098	Other					
G203097	Other					
G2040	Site Development					
G204001	Fencing And Gates					
G204002	Retaining Walls					
G204003	Exterior Furnishings					
G204004	Security Structures					
G204005	Signage					
G204006	Fountains And Pools					
G204007	Playing Fields					
G204008	Terrace And Perimeter Walls					
G204009	Flagpoles					
G204099	Other Site Improvements					
G204098	Other					
G204097	Other					
G2050	Landscaping					
G205001	Fine Grading And Soil Preparation					
G205002	Erosion Control Measures					
G205003	Topsoil And Planting Beds					
G205004	Seeding, Sprigging, And Sodding					
G205005	Plantings					
G205006	Planters					
G205007	Irrigation Systems					
G205099	Other Landscaping					
G205098	Other					
G205097	Other					

G30	Site Civil/Mechanical Utilities				
G3010	G3010 Water Supply				
G301001	Well Systems				
G301002	Potable Water Distribution				
G301003	Potable Water Storage				
G301004	Fire Protection Water Distribution				
G301005	Fire Protection Water Storage				
G301006	Non-Potable Water Distribution				
G301007	Pumping Stations				
G301008	Packaged Water Treatment Plants				
G301099	Other Water Supply				
G301098	Other				
G301097	Other				
G3020	Sanitary Sewer				
G302001	Sanitary Sewer Piping				
G302002	Sanitary Sewer Manholes And Cleanouts				
G302003	Lift Stations And Pumping Stations				
G302004	Packaged Sanitary Sewer Treatment Plants				
G302005	Septic Tanks				
G302006	Drain Fields				
G302099	Other Sanitary Sewer				
G302098	Other				
G302097	Other				
G3030	Storm Sewer				
G303001	Storm Sewer Piping				
G303002	Storm Sewer Structures				
G303003	Lift Stations				
G303004	Culverts				
G303005	Headwalls				
G303006	Erosion And Sediment Control Measures				
G303007	Stormwater Management				
G303099	Other Storm Sewer				
G303098	Other				
G303097	Other				
G3040	Heating Distribution				
G304001	Overhead Hot Water Systems				
G304002	Overhead Steam Systems				

G304003	Underground Hot Water Systems				
G304004	Underground Steam Distribution Systems				
G304005	Reinforced Concrete Manholes & Valve Boxes				
G304006	Pumping Stations				
G304099	Other Heating Distribution				
G304098	Other				
G304097	Other				
G3050	Cooling Distribution				
G305001	Overhead Cooling Systems				
G305002	Underground Cooling Systems				
G305003	Trenchboxes				
G305004	Wells For Cooling				
G305005	Pumping Stations				
G305006	On-Site Cooling Towers				
G305099	Other Cooling Distribution				
G305098	Other				
G305097	Other				
G3060	Fuel Distribution				
G306001	Liquid Fuel Distribution Piping				
G306002	Aviation Fuel Distribution Piping System				
G306003	Liquid Fuel Dispensing Equipment				
G306004	Liquid Fuel Storage Tanks				
G306005	Liquid Fuel System Trenchboxes				
G306006	Gas Distribution Piping (Natural And Propane)				
G306007	Gas Storage Tanks				
G306008	Gas System Trenchboxes				
G306098	Other Gas Distribution				
G306099	Other Fuel Distribution				
G306098	Other				
G306097	Other				
G3090	Other Site Mechanical Utilities				
G309001	Industrial Waste Pipe				
G309002	Industrial Waste Manholes And Cleanouts				
G309003	Industrial Waste Lift Stations				
G309004	Industrial Waste Holding Tanks & Separators				
G309005	Industrial Waste Trenchboxes				
G309099	Other Industrial Waste				

G309098	Other				
G309097	Other				
G40	Site Electrical Utilities				
G4010	Electrical Distribution				
G401001	Substations				
G401002	Transformers				
G401003	Switches, Controls And Devices				
G401004	Overhead Electric Conductors				
G401005	Towers, Poles, Crossarms And Insulators				
G401006	Underground Electric Conductors				
G401007	Ductbanks, Manholes, Handholes, & Raceways				
G401008	Grounding Systems				
G401009	Metering				
G401099	Other Electric Transmission And Distribution				
G401098	Other				
G401097	Other				
G4020	Site Lighting				
G402001	Transformers				
G402002	Overhead Electric Conductors				
G402003	Towers, Poles, Crossarms, And Insulators				
G402004	Underground Electric Conductors				
G402005	Ductbanks, Manholes And Handholes				
G402006	Exterior Lighting Fixtures And Controls				
G402007	Grounding Systems				
G402008	Special Security Lighting Systems				
G402099	Other Area Lighting				
G402098	Other				
G402097	Other				
G4030	Site Communications & Security				
G403001	Telecommunications Systems				
G403002	Sound Systems				
G403003	Fire Alarm Systems				
G403004	Cable TV Systems (Catv)				
G403005	Cables And Wiring				
G403006	Ductbanks, Manholes And Handholes				
G403007	Towers, Poles, And Stands				
G403008	TV Cameras And Monitors				

G403009	Grounding Systems				
G403098	Other Communication And Alarm				
G403099	Other Security Systems				
G403098	Other				
G403097	Other				
G4040	Other Site Electrical Utilities				
G409001	Sacrificial Anode Cathodic Protection System				
G409002	Induced Current Cathodic Protection System				
G409003	Emergency Power Generation				
G409099	Other Cathodic Protection				
G409098	Other				
G409097	Other				
G90	Other Site Construction				
G9010	Service and Pedestrian Tunnels				
G901001	Construction Of Service & Pedestrian Tunnels				
G901002	Prefabricated Service And Pedestrian Tunnels				
G909099	Other Service and Pedestrian Tunnels				
G901098	Other				
G901097	Other				
G9090	Other Site Systems & Equipment				
G909001	Bridges				
G909002	Railroad Spurs				
G909003	Snow Melting Systems				
G909099	Other Special Construction				
G909098	Other				
G909097	Other				
X	Other Categories				
X90	Other Categories				
X9010	Other				
X901001	Other				
X901002	Other				
X901003	Other				
X901004	Other				
X901005	Other				
X901006	Other				
X901007	Other				
X901008	Other				

X901009	Other					
X901010	Other					
X9020	Other					
X902001	Other					
X902002	Other					
X902003	Other					
X902004	Other					
X902005	Other					
X902006	Other					
X902007	Other					
X902008	Other					
X902009	Other					
X902010	Other					
X9030	Other					
X903001	Other					
X903002	Other					
X903003	Other					
X903004	Other					
X903005	Other					
X903006	Other					
X903007	Other					
X903008	Other					
X903009	Other					
X903010	Other					
X9040	Other					
X904001	Other					
X904002	Other					
X904003	Other					
X904004	Other					
X904005	Other					
X904006	Other					
X904007	Other					
X904008	Other					
X904009	Other					
X904010	Other					
X9050	Other					
X905001	Other					

X905002	Other				
X905003	Other				
X905004	Other				
X905005	Other				
X905006	Other				
X905007	Other				
X905008	Other				
X905009	Other				
X905010	Other				
X9060	Other				
X906001	Other				
X906002	Other				
X906003	Other				
X906004	Other				
X906005	Other				
X906006	Other				
X906007	Other				
X906008	Other				
X906009	Other				
X906010	Other				
X9070	Other				
X907001	Other				
X907002	Other				
X907003	Other				
X907004	Other				
X907005	Other				
X907006	Other				
X907007	Other				
X907008	Other				
X907009	Other				
X907010	Other				
X9080	Other				
X908001	Other				
X908002	Other				
X908003	Other				
X908004	Other				
X908005	Other				

X908006	Other				
X908007	Other				
X908008	Other				
X908009	Other				
X908010	Other				
X9090	Other				
X909001	Other				
X909002	Other				
X909003	Other				
X909004	Other				
X909005	Other				
X909006	Other				
X909007	Other				
X909008	Other				
X909009	Other				
X909010	Other				
X9100	Other				
X910001	Other				
X910002	Other				
X910003	Other				
X910004	Other				
X910005	Other				
X910006	Other				
X910007	Other				
X910008	Other				
X910009	Other				
X910010	Other				
Y	Other Categories				
Y90	Other Categories				
Y9010	Other				
Y901001	Other				
Y901002	Other				
Y901003	Other				
Y901004	Other				
Y901005	Other				
Y901006	Other				
Y901007	Other				

Y901008	Other					
Y901009	Other					
Y901010	Other					
Y9020	Other					
Y902001	Other					
Y902002	Other					
Y902003	Other					
Y902004	Other					
Y902005	Other					
Y902006	Other					
Y902007	Other					
Y902008	Other					
Y902009	Other					
Y902010	Other					
Y9030	Other					
Y903001	Other					
Y903002	Other					
Y903003	Other					
Y903004	Other					
Y903005	Other					
Y903006	Other					
Y903007	Other					
Y903008	Other					
Y903009	Other					
Y903010	Other					
Y9040	Other					
Y904001	Other					
Y904002	Other					
Y904003	Other					
Y904004	Other					
Y904005	Other					
Y904006	Other					
Y904007	Other					
Y904008	Other					
Y904009	Other					
Y904010	Other					
Y9050	Other					

Y905001	Other					
Y905002	Other					
Y905003	Other					
Y905004	Other					
Y905005	Other					
Y905006	Other					
Y905007	Other					
Y905008	Other					
Y905009	Other					
Y905010	Other					
Y9060	Other					
Y906001	Other					
Y906002	Other					
Y906003	Other					
Y906004	Other					
Y906005	Other					
Y906006	Other					
Y906007	Other					
Y906008	Other					
Y906009	Other					
Y906010	Other					
Y9070	Other					
Y907001	Other					
Y907002	Other					
Y907003	Other					
Y907004	Other					
Y907005	Other					
Y907006	Other					
Y907007	Other					
Y907008	Other					
Y907009	Other					
Y907010	Other					
Y9080	Other					
Y908001	Other					
Y908002	Other					
Y908003	Other					
Y908004	Other					

Y908005	Other					
Y908006	Other					
Y908007	Other					
Y908008	Other					
Y908009	Other					
Y908010	Other					
Y9090	Other					
Y909001	Other					
Y909002	Other					
Y909003	Other					
Y909004	Other					
Y909005	Other					
Y909006	Other					
Y909007	Other					
Y909008	Other					
Y909009	Other					
Y909010	Other					
Y9100	Other					
Y910001	Other					
Y910002	Other					
Y910003	Other					
Y910004	Other					
Y910005	Other					
Y910006	Other					
Y910007	Other					
Y910008	Other					
Y910009	Other					
Y910010	Other					
Z	Other Project Costs					
Z10	One Time - Upfront Costs		1	50		
Z1010	Agency Project Management		1	50		
Z1010	Consultant Services		1	50		
Z1030	Project Contingency		1	50		
Z1030	GC/CM or D/B Management Costs		1	50		
Z1030	DES Management Fees		1	50		
Z1040	Other Soft Costs		1	50		
Z1050	Other One Time - Upfront Cost		1	50		

Z1060	Other One Time - Upfront Cost		1	50		
Z1070	Other One Time - Upfront Cost		1	50		
Z1080	Other One Time - Upfront Cost		1	50		
Z1090	Other One Time - Upfront Cost		1	50		
Z109099	Other		1	50		
Z108098	Other		1	50		
Z107097	Other		1	50		
Z106096	Other		1	50		
Z105095	Other		1	50		
Z104094	Other		1	50		
Z103093	Other		1	50		
Z102092	Other		1	50		
Z101091	Other		1	50		
Z100090	Other		1	50		
Z20	Other One Time - Upfront Costs		1	50		
Z2010	Other One Time - Upfront Cost		1	50		
Z2020	Other One Time - Upfront Cost		1	50		
Z3020	Other One Time - Upfront Cost		1	50		
Z2030	Other One Time - Upfront Cost		1	50		
Z2040	Other One Time - Upfront Cost		1	50		
Z2050	Other One Time - Upfront Cost		1	50		
Z205099	Other		1	50		
Z205098	Other		1	50		
Z205097	Other		1	50		
Z205096	Other		1	50		
Z205095	Other		1	50		
Z205094	Other		1	50		
Z205093	Other		1	50		
Z205092	Other		1	50		
Z205091	Other		1	50		
Z30	Re-Occurring Annual Cost (Track Inflation)		1	1		
Z3010	Other Re-Occurring Annual Cost		1	1		
Z3020	Other Re-Occurring Annual Cost		1	1		

Custom Year By Year Entries in Constant 2020 Dollars (Manually Show Row and Reference in Narrative)		2020	2021
		Custom Capital Cost #1	\$ -

		Custom Capital Cost #2		\$ -
		Custom Capital Cost #3		\$ -
		Custom Capital Cost #4		\$ -
		Custom Capital Cost #5		\$ -
		Custom Maintenance #1		\$ -
		Custom Maintenance #2		\$ -
		Custom Maintenance #3		\$ -
		Custom Maintenance #4		\$ -
		Custom Maintenance #5		\$ -
		Custom Utility #1 (Electricity)		\$ -
		Custom Utility #2 (Natural Gas)		\$ -
		Custom Utility #3		\$ -
		Custom Utility #4		\$ -
		Custom Utility #5		\$ -
		Custom Financing #1		\$ -

Office of Financial Management
Olympia, Washington - Version: 2020-A
Life Cycle Cost Analysis Tool
Alternative 2 Input Page

<input type="radio"/> Manual Special Selection Only (Requires Refilter)	
<input checked="" type="radio"/> Show Baseline Fields and Entered Units (Requires Refilter)	
<input type="radio"/> Show Differences Between Alternative and Baseline (Req. Refilter)	
Total Building Annual Utility Analysis	\$ 18,547
Annual Utility Bill [\$]	
Annual Utility Consumption Not Entered Below	
Sum of Annual Utility Consumption Below	
Total Annual Utility Consumption	
Annual Utility Bill ÷ Total Utility Consumption	

Uniformat II Elemental Classification for Buildings (Building Component List)		REF	# of Units	Useful Life (Yrs.)	Installed Cost (\$/Unit)	1st Year Maintenance Cost (\$/Unit)	Total Component Installed Cost (\$'s)
Primary Entries Below: # of Units must be > 0 to be counted; Useful Life must be >= 2							
Match Baseline: Filter to Select All & Drag Copy O14:S14 & U14:AG14							\$ 18,365
A	Substructure						
A10	Foundations						
A1010	Standard Foundations						
A101001	Wall Foundations						
A101002	Column Foundations And Pile Caps						
A101003	Dewatering						
A101099	Other Standard Foundations						
A101098	Other						
A101097	Other						
A1020	Special Foundations						
A102001	Pile Foundations						
A102002	Caissons						
A102003	Underpinning						
A102004	Dewatering						
A102005	Raft Foundations						
A102006	Pressure Injected Grouting						
A102099	Other Special Foundations						
A102098	Other						
A102097	Other						

A1030	Slab on Grade					
A103001	Standard Slab On Grade					
A103002	Structural Slab On Grade					
A103003	Inclined Slab On Grade					
A103004	Trenches					
A103005	Pits And Bases					
A103006	Foundation Drainage					
A103099	Other Slab On Grade					
A103098	Other					
A103097	Other					
A20	Basement Construction					
A2010	Basement Excavation					
A201001	Excavation For Basements					
A201002	Structure Backfill And Compaction					
A201003	Shoring					
A201099	Other Basement Excavation					
A201098	Other					
A201097	Other					
A2020	Basement Walls					
A202001	Basement Wall Construction					
A202002	Moisture Protection					
A202003	Basement Wall Insulation					
A202099	Other Basement Walls					
A202098	Other					
A202097	Other					
B	Shell					
B10	Superstructure					
B1010	Floor Construction					
B101001	Structural Frame					
B101002	Structural Interior Walls					
B101003	Floor Decks And Slabs					
B101004	Balcony Construction					
B101005	Ramps					
B101006	Floor Raceway Systems					
B101007	Inclined And Stepped Floors					
B101099	Other Floor Construction					
B101098	Other					

B101097	Other					
B1020	Roof Construction					
B102011	Structural Frame					
B102002	Structural Interior Walls					
B102003	Roof Decks And Slabs					
B102004	Canopies					
B102099	Other Roof Construction					
B102098	Other					
B102097	Other					
B20	Exterior Enclosure					
B2010	Exterior Walls					
B201001	Exterior Closure					
B201002	Exterior Wall Backup Construction					
B201003	Insulation And Vapor Retarder					
B201004	Parapets					
B201005	Exterior Louvers And Screens					
B201006	Sun Control Devices (Exterior)					
B201007	Balcony Walls And Railings					
B201008	Exterior Soffits					
B201009	Screen Wall					
B201010	Exterior Coatings					
B201011	Joint Sealant					
B201099	Other Exterior Walls					
B201098	Vermiculite, 50% of Cores					
B201097	R-9.5 CI					
B202098	R-11.2 CI	11198	51	\$1.64		\$ 18,365
B202097	Other					
B2030	Exterior Doors					
B203001	Solid Doors					
B203002	Glazed Doors					
B203003	Revolving Doors					
B203004	Overhead And Roll-Up Doors					
B203005	Hangar Doors					
B203006	Blast Resistant Doors					
B203007	Gates					
B203008	Exterior Door Hardware					
B203098	Other Exterior Specialty Doors					

B203099	Other Exterior Personnel Doors				
B203098	Other				
B203097	Other				
B30	Roofing				
B3010	Roof Covering				
B301001	High Slope Roof Coverings				
B301002	Low Slope Membrane Systems				
B301003	Roof Insulation And Fill				
B301004	Flashings And Trim				
B301005	Gutters And Downspouts				
B301006	Roof Openings And Supports				
B301099	Other Roofing				
B301098	Other				
B301097	Other				
B3020	Roof Openings				
B302099	Other Roof Openings				
B302098	Other				
B302097	Other				
C	Interiors				
C10	Interior Construction				
C1010	Partitions				
C101001	Fixed Partitions				
C101002	Demountable Partitions				
C101003	Retractable Partitions				
C101004	Interior Guardrails And Screens				
C101005	Interior Windows				
C101006	Glazed Partitions And Storefronts				
C101007	Interior Glazing				
C101008	Joint Sealant				
C101099	Other Partitions				
C101098	Other				
C101097	Other				
C1020	Interior Doors				
C102001	Standard Interior Doors				
C102002	Glazed Interior Doors				
C102003	Fire Doors				
C102004	Sliding And Folding Doors				

C102005	Interior Overhead Doors				
C102006	Interior Gates				
C102007	Interior Door Hardware				
C102098	Other Interior Specialty Doors				
C102099	Other Interior Personnel Doors				
C102098	Other				
C102097	Other				
C1030	Fittings				
C103001	Compartments, Cubicles & Toilet Partitions				
C103002	Toilet And Bath Accessories				
C103003	Marker Boards And Tack Boards				
C103004	Identifying Devices				
C103005	Lockers				
C103006	Shelving				
C103007	Fire Extinguisher Cabinets				
C103008	Counters				
C103009	Cabinets				
C103010	Closets				
C103011	Fire stopping Penetrations				
C103012	Sprayed Fire-Resistive Materials				
C103013	Raised Access Flooring				
C103014	Casework				
C103099	Other Interior Specialties				
C103098	Other				
C103097	Other				
C20	Stairs				
C2010	Stair Construction				
C201001	Interior Stair Construction				
C201002	Exterior Stair Construction				
C201099	Other Stair Construction				
C201098	Other				
C201097	Other				
C2020	Stair Finishes				
C202001	Interior Stair Finish				
C202099	Other Stair Finish				
C202098	Other				
C202097	Other				

C30	Interior Finishes				
C3010	Wall Finishes				
C301001	Concrete Wall Finishes				
C301002	Plaster Wall Finishes				
C301003	Gypsum Wallboard Finishes				
C301004	Tile And Terrazzo Wall Finishes				
C301005	Painting To Walls				
C301006	Wall Coverings				
C301007	Acoustical Panels Adhered To Walls				
C301008	Special Coatings To Walls				
C301099	Other Wall Finishes				
C301098	Other				
C301097	Other				
C3020	Floor Finishes				
C302001	Tile Floor Finishes				
C302002	Terrazzo Floor Finishes				
C302003	Wood Flooring				
C302004	Resilient Floor Finishes				
C302005	Carpeting				
C302006	Masonry And Stone Flooring				
C302007	Painting And Staining Floors				
C302008	Wall Base Finishes				
C302009	Floor Toppings And Traffic Membranes				
C302010	Hardeners And Sealers				
C302099	Other Flooring And Floor Finishes				
C302098	Other				
C302097	Other				
C3030	Ceiling Finishes				
C303001	Exposed Concrete Finishes				
C303002	Plaster Ceiling Finishes				
C303003	Gypsum Wallboard Ceiling Finishes				
C303004	Acoustical Ceiling Tiles And Panels				
C303005	Wood Ceilings				
C303006	Painting And Staining Ceilings				
C303007	Suspensions Systems				
C303008	Metal Strip Ceilings				
C303099	Other Ceiling And Ceiling Finishes				

C303098	Other				
C303097	Other				
D	Services				
D10	Conveying Systems				
D1010	Elevators & Lifts				
D101001	General Construction Items				
D101002	Passenger Elevators				
D101003	Freight Elevators				
D101004	Wheelchair Lift				
D101099	Other Elevators				
D101098	Other				
D101097	Other				
D1020	Escalators & Moving Walks				
D102001	Moving Stairs				
D102002	Moving Walks				
D102099	Other Moving Stairs And Walks				
D102098	Other				
D102097	Other				
D1090	Other Conveying Systems				
D109001	Pneumatic Tube Systems				
D109002	Conveyors				
D109003	Linen, Trash, And Mail Chutes				
D109004	Turntables				
D109005	Operable Scaffolding				
D109006	Transportation Systems				
D109007	Overhead Cranes				
D109099	Other Material Handling Systems				
D109098	Other				
D109097	Other				
D20	Plumbing				
D2010	Plumbing Fixtures				
D201001	Waterclosets				
D201002	Urinals				
D201003	Lavatories				
D201004	Sinks				
D201005	Showers/Tubs				
D201006	Drinking Fountains And Coolers				

D201007	Bidets				
D201099	Emergency Fixtures				
D201098	Other				
D201097	Other				
D2020	Domestic Water Distribution				
D202001	Pipes And Fittings				
D202002	Valves And Hydrants				
D202003	Domestic Water Equipment				
D202004	Insulation And Identification				
D202005	Specialties				
D202099	Other Domestic Water Supply				
D202098	Other				
D202097	Other				
D2030	Sanitary Waste				
D203001	Waste Pipe And Fittings				
D203002	Vent Pipe And Fittings				
D203003	Floor Drains				
D203004	Sanitary And Vent Equipment				
D203005	Insulation And Identification				
D203099	Other Sanitary Waste				
D203098	Other				
D203097	Other				
D2040	Rain Water Drainage				
D204001	Pipe And Fittings				
D204002	Roof Drains				
D204003	Rainwater Drainage Equipment				
D204004	Insulation And Identification				
D204099	Other Rain Water Drainage System				
D204098	Other				
D204097	Other				
D2090	Other Plumbing Systems				
D209001	Special Piping Systems				
D209002	Acid Waste Systems				
D209003	Interceptors				
D209004	Pool Piping And Equipment				
D209005	Compressed Air System (Non-Breathing)				
D209099	Other Special Plumbing Systems				

D209098	Other				
D209097	Other				
D30	HVAC				
D3010	Energy Supply				
D301001	Oil Supply System				
D301002	Gas Supply System				
D301003	Coal Supply System				
D301004	Steam Supply System (From Central Plant)				
D301005	Hot Water Supply System (From Central Plant)				
D301006	Solar Energy Supply Systems				
D301007	Wind Energy Supply System				
D301099	Other Energy Supply				
D300198	Other				
D300197	Other				
D3020	Heat Generating Systems				
D302001	Steam Boilers				
D302002	Hot Water Boilers				
D302003	Furnaces				
D302004	Fuel-Fired Unit Heaters				
D302005	Auxiliary Equipment				
D302006	Equipment Thermal Insulation				
D302099	Other Heat Generating Systems				
D302098	Other				
D302097	Other				
D3030	Cooling Generating Systems				
D303001	Chilled Water Systems				
D303002	Direct Expansion Systems				
D303099	Other Cooling Generating Systems				
D303098	Other				
D303097	Other				
D3040	Distribution Systems				
D304001	Air Distribution, Heating, And Cooling				
D304002	Steam Distribution Systems				
D304003	Hot Water Distribution Systems				
D304004	Change Over Distribution Systems				
D304005	Glycol Distribution Systems				
D304006	Chilled Water Distribution Systems				

D304007	Exhaust Systems				
D304008	Air Handling Units				
D304099	Other Distribution Systems				
D304098	Other				
D304097	Other				
D3050	Terminal & Package Units				
D305001	Unit Ventilators				
D305002	Unit Heaters				
D305003	Fan Coil Units				
D305004	Fin Tube Radiation				
D305005	Electric Heating				
D305006	Package Units				
D305099	Other Terminal And Package Units				
D305098	Other				
D305097	Other				
D3060	Controls & Instrumentation				
D306001	HVAC Controls				
D306002	Electronic Controls				
D306003	Pneumatic Controls				
D306004	Instrument Air Compressors				
D306005	Gas Purging Systems				
D306099	Other Controls Instrumentation				
D306098	Other				
D306097	Other				
D3070	Systems Testing & Balancing				
D307001	Water Side Testing And Balancing—H & C				
D307002	Air Side Testing And Balancing—H, C & E				
D307003	HVAC Commissioning				
D307099	Other Systems Testing And Balancing				
D307098	Other				
D307097	Other				
D3090	Other HVAC Systems & Equipment				
D309001	General Construction Items				
D309002	Refrigeration Systems				
D309099	Other Special Mechanical Systems				
D309098	Other				
D309097	Other				

D40	Fire Protection				
D4010	Sprinklers				
D401001	Sprinklers And Releasing Devices				
D401002	Sprinkler Water Supply Equipment & Piping				
D409099	Other Sprinklers				
D409098	Other				
D409097	Other				
D4020	Standpipes				
D402001	Standpipe Equipment And Piping				
D402099	Other Standpipes				
D402097	Other				
D4030	Fire Protection Specialties				
D403001	Fire Extinguishing Devices				
D403099	Other Fire Protection Specialties				
D403098	Other				
D403097	Other				
D4040	Other Fire Protection Systems				
D409001	Carbon Dioxide Systems				
D409002	Foam Generating Equipment				
D409003	Clean Agent Systems				
D409005	Hood And Duct Fire Protection				
D409099	Other Special Fire Protection Systems				
D409098	Other				
D409097	Other				
D50	Electrical				
D5010	Electrical Service & Distribution				
D501001	Main Transformers				
D501002	Secondary				
D501003	Main Switchboards				
D501004	Interior Distribution Transformers				
D501005	Panels				
D501006	Enclosed Circuit Breakers				
D501007	Motor Control Centers				
D501099	Other Service And Distribution				
D501098	Other				
D501097	Other				
D5020	Lighting & Branch Wiring				

D502001	Branch Wiring					
D502002	Lighting Equipment					
D502099	Other Lighting And Branch Wiring					
D502098	Other					
D502097	Other					
D5030	Communication & Security Systems					
D503001	Fire Alarm Systems					
D503002	Telecommunications Systems					
D503003	Nurse Call Systems					
D503004	Public Address Systems					
D503005	Intercommunications Systems					
D503006	Clock And Program Systems					
D503007	Television Systems					
D503008	Security Systems					
D503099	Other Communications And Alarm Systems					
D503098	Other					
D503097	Other					
D5090	Other Electrical Systems					
D509001	General Construction Items (Electrical)					
D509002	Emergency Lighting And Power					
D509003	Grounding Systems					
D509004	Lightning Protection					
D509005	Electric Heating					
D509006	Energy Management Control System					
D509099	Other Special Systems And Devices					
D509098	Other					
D509097	Other					
E	Equipment & Furnishings					
E10	Equipment					
E1010	Commercial Equipment					
E101001	Checkroom Equipment					
E101002	Registration Equipment					
E101003	Vending Equipment					
E101004	Laundry Equipment					
E101005	Security And Vault Equipment					
E101006	Teller And Service Equipment					

E101007	Mercantile Equipment				
E101008	Office Equipment				
E101099	Other Commercial Equipment				
E101098	Other				
E101097	Other				
E1020	Institutional Equipment				
E102001	Miscellaneous Fixed & Moveable Equipment				
E102002	Medical Equipment				
E102003	Laboratory Equipment				
E102004	Mortuary Equipment				
E102005	Auditorium And Stage Equipment				
E102006	Library Equipment				
E102007	Ecclesiastical Equipment				
E102008	Instrumental Equipment				
E102009	Audio-Visual Equipment				
E102010	Detention Equipment				
E102099	Other Institutional Equipment				
E102098	Other				
E102097	Other				
E1030	Vehicular Equipment				
E103001	Parking Control Equipment				
E103002	Loading Dock Equipment				
E103003	Warehouse Equipment				
E103099	Other Vehicular Equipment				
E103098	Other				
E103097	Other				
E1090	Other Equipment				
E109001	Built-In Maintenance Equipment				
E109002	Food Service Equipment				
E109003	Waste Handling Equipment				
E109004	Residential Equipment				
E109005	Unit Kitchens				
E109006	Darkroom Equipment				
E109007	Athletic, Recreational, And Therapeutic Equipment				
E109008	Planetarium Equipment				
E109009	Observatory Equipment				
E109010	Agricultural Equipment				

E109099	Other Specialized Fixed And Moveable Equipment				
E109098	Other				
E109097	Other				
E20	Fixed Furnishings				
E2010	Fixed Furnishings				
E201001	Fixed Artwork				
E201002	Window Treatments				
E201003	Seating (Fixed)				
E201004	Fixed Floor Grilles And Mats				
E201005	Fixed Interior Landscaping				
E201099	Other Fixed Interior Furnishings				
E201098	Other				
E201097	Other				
E2020	Movable Furnishings				
E202001	Moveable Art Work				
E202002	Modular Prefabricated Furniture				
E202003	Freestanding Furniture				
E202004	Rugs And Accessories				
E202005	Moveable Multiple Seating				
E202006	Moveable Interior Landscaping				
E202099	Other Moveable Furnishings				
E202098	Other				
E202097	Other				
F	Special Construction & Demolition				
F10	Special Construction				
F1010	Special Structures				
F101001	Metal Building Systems				
F101002	Exterior Utility Buildings				
F101003	Air-Supported Structures				
F101099	Other Special Construction				
F101098	Other				
F101097	Other				
F1020	Integrated Construction				
F102001	Special Purpose Rooms				
F102002	Integrated Assemblies				
F102099	Other Integrated Construction				
F102098	Other				

F102097	Other				
F1030	Special Construction Systems				
F103001	Vaults				
F103002	Sound, Vibration, & Seismic Construction				
F103003	Radiation Protection				
F103099	Other Special Construction Systems				
F103098	Other				
F103097	Other				
F1040	Special Facilities				
F104001	Interior Swimming Pools				
F104002	Liquid And Gas Storage Tanks				
F104003	Kennels And Animal Shelters				
F104004	Site Constructed Incinerators				
F104005	Ice Rinks				
F104099	Other Special Facilities				
F104098	Other				
F104097	Other				
F1050	Special Controls and Instrumentation				
F105001	Recording Instrumentation				
F105002	Building Automation Systems				
F105099	Other Special Controls And Instrumentation				
F105098	Other				
F105097	Other				
F20	Selective Building Demolition				
F2010	Building Elements Demolition				
F201001	Substructure And Superstructure				
F201002	Exterior Closure				
F201003	Roofing				
F201004	Interior Construction And Finishes				
F201005	Conveying Systems				
F201006	Mechanical Systems				
F201007	Electrical Systems				
F201008	Equipment And Furnishings				
F201099	Other Non-Hazardous Selective Building Demolition				
F201098	Other				
F201097	Other				
F2020	Hazardous Components Abatement				

F202001	Substructure And Superstructure				
F202002	Exterior Closure				
F202003	Roofing				
F202004	Interior Construction And Finishes				
F202005	Conveying Systems				
F202006	Mechanical Systems				
F202007	Electrical Systems				
F202008	Equipment And Furnishings				
F202099	Other Hazardous Selective Building Demolition				
F202098	Other				
F202097	Other				
G	Building Sitework				
G10	Site Preparation				
G1010	Site Clearing				
G101001	Clearing				
G101002	Tree Removal				
G101003	Stump Removal				
G101004	Chipping				
G101005	Grubbing				
G101006	Selective Thinning				
G101007	Debris Disposal				
G101099	Other Site Clearing				
G101098	Other				
G101097	Other				
G1020	Site Demolition & Relocation				
G102001	Building Mass Demolition				
G102002	Above Ground Site Demolition				
G102003	Underground Site Demolition				
G102004	Building Relocation				
G102005	Utility Relocation				
G102006	Fencing Relocation				
G102007	Site Cleanup				
G102099	Other Site Demolition And Relocations				
G102098	Other				
G102097	Other				
G1030	Site Earthwork				
G103001	Grading				

G103002	Common Excavation				
G103003	Rock Excavation				
G103004	Fill And Borrow				
G103005	Compaction				
G103006	Soil Stabilization				
G103007	Slope Stabilization				
G103008	Soil Treatment				
G103009	Shoring				
G103010	Temporary Dewatering				
G103011	Temporary Erosion And Sediment Control				
G103099	Other Site Earthwork				
G103098	Other				
G103097	Other				
G1040	Hazardous Waste Remediation				
G104001	Removal Of Contaminated Soil				
G104002	Soil Restoration And Treatment				
G104099	Other Hazardous Waste Remediation				
G104098	Other				
G104097	Other				
G20	Site Improvements				
G2010	Roadways				
G201001	Bases And Subbases				
G201002	Curbs And Gutters				
G201003	Paved Surfaces				
G201004	Marking And Signage				
G201005	Guardrails And Barriers				
G201006	Resurfacing				
G201099	Other Roadways				
G201098	Other				
G201097	Other				
G2020	Parking Lots				
G202001	Bases And Subbases				
G202002	Curbs And Gutters				
G202003	Paved Surfaces				
G202004	Marking And Signage				
G202005	Guardrails And Barriers				
G202006	Resurfacing				

G202007	Miscellaneous Structures And Equipment					
G202099	Other Parking Lots					
G202098	Other					
G202097	Other					
G2030	Pedestrian Paving					
G203001	Bases And Subbases					
G203002	Curbs And Gutters					
G203003	Paved Surfaces					
G203004	Guardrails And Barriers					
G203005	Resurfacing					
G203099	Other Walks, Steps, And Terraces					
G203098	Other					
G203097	Other					
G2040	Site Development					
G204001	Fencing And Gates					
G204002	Retaining Walls					
G204003	Exterior Furnishings					
G204004	Security Structures					
G204005	Signage					
G204006	Fountains And Pools					
G204007	Playing Fields					
G204008	Terrace And Perimeter Walls					
G204009	Flagpoles					
G204099	Other Site Improvements					
G204098	Other					
G204097	Other					
G2050	Landscaping					
G205001	Fine Grading And Soil Preparation					
G205002	Erosion Control Measures					
G205003	Topsoil And Planting Beds					
G205004	Seeding, Sprigging, And Sodding					
G205005	Plantings					
G205006	Planters					
G205007	Irrigation Systems					
G205099	Other Landscaping					
G205098	Other					
G205097	Other					

G30	Site Civil/Mechanical Utilities				
G3010	G3010 Water Supply				
G301001	Well Systems				
G301002	Potable Water Distribution				
G301003	Potable Water Storage				
G301004	Fire Protection Water Distribution				
G301005	Fire Protection Water Storage				
G301006	Non-Potable Water Distribution				
G301007	Pumping Stations				
G301008	Packaged Water Treatment Plants				
G301099	Other Water Supply				
G301098	Other				
G301097	Other				
G3020	Sanitary Sewer				
G302001	Sanitary Sewer Piping				
G302002	Sanitary Sewer Manholes And Cleanouts				
G302003	Lift Stations And Pumping Stations				
G302004	Packaged Sanitary Sewer Treatment Plants				
G302005	Septic Tanks				
G302006	Drain Fields				
G302099	Other Sanitary Sewer				
G302098	Other				
G302097	Other				
G3030	Storm Sewer				
G303001	Storm Sewer Piping				
G303002	Storm Sewer Structures				
G303003	Lift Stations				
G303004	Culverts				
G303005	Headwalls				
G303006	Erosion And Sediment Control Measures				
G303007	Stormwater Management				
G303099	Other Storm Sewer				
G303098	Other				
G303097	Other				
G3040	Heating Distribution				
G304001	Overhead Hot Water Systems				
G304002	Overhead Steam Systems				

G304003	Underground Hot Water Systems				
G304004	Underground Steam Distribution Systems				
G304005	Reinforced Concrete Manholes & Valve Boxes				
G304006	Pumping Stations				
G304099	Other Heating Distribution				
G304098	Other				
G304097	Other				
G3050	Cooling Distribution				
G305001	Overhead Cooling Systems				
G305002	Underground Cooling Systems				
G305003	Trenchboxes				
G305004	Wells For Cooling				
G305005	Pumping Stations				
G305006	On-Site Cooling Towers				
G305099	Other Cooling Distribution				
G305098	Other				
G305097	Other				
G3060	Fuel Distribution				
G306001	Liquid Fuel Distribution Piping				
G306002	Aviation Fuel Distribution Piping System				
G306003	Liquid Fuel Dispensing Equipment				
G306004	Liquid Fuel Storage Tanks				
G306005	Liquid Fuel System Trenchboxes				
G306006	Gas Distribution Piping (Natural And Propane)				
G306007	Gas Storage Tanks				
G306008	Gas System Trenchboxes				
G306098	Other Gas Distribution				
G306099	Other Fuel Distribution				
G306098	Other				
G306097	Other				
G3090	Other Site Mechanical Utilities				
G309001	Industrial Waste Pipe				
G309002	Industrial Waste Manholes And Cleanouts				
G309003	Industrial Waste Lift Stations				
G309004	Industrial Waste Holding Tanks & Separators				
G309005	Industrial Waste Trenchboxes				
G309099	Other Industrial Waste				

G309098	Other				
G309097	Other				
G40	Site Electrical Utilities				
G4010	Electrical Distribution				
G401001	Substations				
G401002	Transformers				
G401003	Switches, Controls And Devices				
G401004	Overhead Electric Conductors				
G401005	Towers, Poles, Crossarms And Insulators				
G401006	Underground Electric Conductors				
G401007	Ductbanks, Manholes, Handholes, & Raceways				
G401008	Grounding Systems				
G401009	Metering				
G401099	Other Electric Transmission And Distribution				
G401098	Other				
G401097	Other				
G4020	Site Lighting				
G402001	Transformers				
G402002	Overhead Electric Conductors				
G402003	Towers, Poles, Crossarms, And Insulators				
G402004	Underground Electric Conductors				
G402005	Ductbanks, Manholes And Handholes				
G402006	Exterior Lighting Fixtures And Controls				
G402007	Grounding Systems				
G402008	Special Security Lighting Systems				
G402099	Other Area Lighting				
G402098	Other				
G402097	Other				
G4030	Site Communications & Security				
G403001	Telecommunications Systems				
G403002	Sound Systems				
G403003	Fire Alarm Systems				
G403004	Cable TV Systems (Catv)				
G403005	Cables And Wiring				
G403006	Ductbanks, Manholes And Handholes				
G403007	Towers, Poles, And Stands				
G403008	TV Cameras And Monitors				

G403009	Grounding Systems				
G403098	Other Communication And Alarm				
G403099	Other Security Systems				
G403098	Other				
G403097	Other				
G4040	Other Site Electrical Utilities				
G409001	Sacrificial Anode Cathodic Protection System				
G409002	Induced Current Cathodic Protection System				
G409003	Emergency Power Generation				
G409099	Other Cathodic Protection				
G409098	Other				
G409097	Other				
G90	Other Site Construction				
G9010	Service and Pedestrian Tunnels				
G901001	Construction Of Service & Pedestrian Tunnels				
G901002	Prefabricated Service And Pedestrian Tunnels				
G909099	Other Service and Pedestrian Tunnels				
G901098	Other				
G901097	Other				
G9090	Other Site Systems & Equipment				
G909001	Bridges				
G909002	Railroad Spurs				
G909003	Snow Melting Systems				
G909099	Other Special Construction				
G909098	Other				
G909097	Other				
X	Other Categories				
X90	Other Categories				
X9010	Other				
X901001	Other				
X901002	Other				
X901003	Other				
X901004	Other				
X901005	Other				
X901006	Other				
X901007	Other				
X901008	Other				

X901009	Other					
X901010	Other					
X9020	Other					
X902001	Other					
X902002	Other					
X902003	Other					
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X902007	Other					
X902008	Other					
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X902010	Other					
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X903010	Other					
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X904010	Other					
X9050	Other					
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X905010	Other				
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X910009	Other					
X910010	Other					
Y	Other Categories					
Y90	Other Categories					
Y9010	Other					
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Y910001	Other					
Y910002	Other					
Y910003	Other					
Y910004	Other					
Y910005	Other					
Y910006	Other					
Y910007	Other					
Y910008	Other					
Y910009	Other					
Y910010	Other					
Z	Other Project Costs					
Z10	One Time - Upfront Costs		1	50		
Z1010	Agency Project Management		1	50		
Z1010	Consultant Services		1	50		
Z1030	Project Contingency		1	50		
Z1030	GC/CM or D/B Management Costs		1	50		
Z1030	DES Management Fees		1	50		
Z1040	Other Soft Costs		1	50		
Z1050	Other One Time - Upfront Cost		1	50		

Z1060	Other One Time - Upfront Cost		1	50		
Z1070	Other One Time - Upfront Cost		1	50		
Z1080	Other One Time - Upfront Cost		1	50		
Z1090	Other One Time - Upfront Cost		1	50		
Z109099	Other		1	50		
Z108098	Other		1	50		
Z107097	Other		1	50		
Z106096	Other		1	50		
Z105095	Other		1	50		
Z104094	Other		1	50		
Z103093	Other		1	50		
Z102092	Other		1	50		
Z101091	Other		1	50		
Z100090	Other		1	50		
Z20	Other One Time - Upfront Costs		1	50		
Z2010	Other One Time - Upfront Cost		1	50		
Z2020	Other One Time - Upfront Cost		1	50		
Z3020	Other One Time - Upfront Cost		1	50		
Z2030	Other One Time - Upfront Cost		1	50		
Z2040	Other One Time - Upfront Cost		1	50		
Z2050	Other One Time - Upfront Cost		1	50		
Z205099	Other		1	50		
Z205098	Other		1	50		
Z205097	Other		1	50		
Z205096	Other		1	50		
Z205095	Other		1	50		
Z205094	Other		1	50		
Z205093	Other		1	50		
Z205092	Other		1	50		
Z205091	Other		1	50		
Z30	Re-Occurring Annual Cost (Track Inflation)		1	1		
Z3010	Other Re-Occurring Annual Cost		1	1		
Z3020	Other Re-Occurring Annual Cost		1	1		

Custom Year By Year Entries in Constant 2020 Dollars (Manually Show Row and Reference in Narrative)		2020	2021
		Custom Capital Cost #1	\$ -

		Custom Capital Cost #2		\$ -
		Custom Capital Cost #3		\$ -
		Custom Capital Cost #4		\$ -
		Custom Capital Cost #5		\$ -
		Custom Maintenance #1		\$ -
		Custom Maintenance #2		\$ -
		Custom Maintenance #3		\$ -
		Custom Maintenance #4		\$ -
		Custom Maintenance #5		\$ -
		Custom Utility #1 (Electricity)		\$ -
		Custom Utility #2 (Natural Gas)		\$ -
		Custom Utility #3		\$ -
		Custom Utility #4		\$ -
		Custom Utility #5		\$ -
		Custom Financing #1		\$ -