



5 Year Capital Improvement Plan Summary - As of 5.22.19

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total	
General Fund										
Accounting/ Information Systems	1213CE1101	IT Master Plan - IT Security Devices	Director of IT	15,000	15,000	-	-	-	30,000	
	1213CE1501	District Wi-fi Installation Update	Director of IT	-	60,000	-	-	-	60,000	
	1213CE1701	District Communication Radios	Network Administrator	6,000	6,000	10,000	-	-	22,000	
	1213CE1901	District Wide Update to Voice Over iPhone System	IT Analyst	-	60,000	66,000	-	-	126,000	
	1213CO1505	IT Infrastructure	Director of IT	132,800	91,800	92,000	-	-	316,600	
	1213CO1703	District Wide PC, Laptops, Peripheral Equipment and Desk Top	IT Technician	95,000	97,050	100,000	102,950	105,900	500,900	
	1213CO1802	Microsoft Exchange Server	Director of IT	28,600	-	-	-	-	28,600	
	1213CO1803	Microsoft Office Licenses	Director of IT	9,045	9,300	9,600	-	-	27,945	
	1213CO1804	Windows Server Operating System	Director of IT	14,000	14,000	-	-	-	28,000	
	1213LV1721	IS&T Pick-up Truck and Cargo Unit	Fleet Superintendent	-	-	-	12,000	-	12,000	
	Total			300,445	353,150	277,600	114,950	105,900	1,152,045	
General	1099BD1501	Admin Roof Replacement	Buildings Superintendent	-	85,000	-	-	-	85,000	
	1099BD1502	Upgrade Public Bathrooms at Administration for ADA Compliance	Buildings Superintendent	-	-	75,000	-	-	75,000	
	1099BD1701	Administration Services Building	Engineering Manager	-	-	-	150,000	3,200,000	3,350,000	
	1099LI1705	Pavement Maintenance - Administration Building	Senior Engineer	5,000	5,000	5,000	5,000	5,000	25,000	
	1099OE1401	Admin Printer Copier Replacement - 893 Southwood Administration Building	District Clerk	-	-	32,500	-	-	32,500	
	1315CO1801	Human Resource Management and Payroll Processing Software	Director of Human Resources	180,000	-	-	-	-	180,000	
		Total			185,000	90,000	112,500	155,000	3,205,000	3,747,500
		Total General Fund			485,445	443,150	390,100	269,950	3,310,900	4,899,545
Utilities										
Public Works Shared	2097BD1202	Paint Interior Building #A	Buildings Superintendent	-	-	-	49,000	-	49,000	
	2097BD1204	New Carpet Building #A	Buildings Superintendent	-	47,000	-	-	-	47,000	
	2097BD1704	Replace Roof Public Works #B	Buildings Superintendent	-	-	105,000	-	-	105,000	
	2097BD1802	Household Hazardous Waste Building Improvements	Principal Engineer	15,000	150,000	-	-	-	165,000	
	2097CO2101	Public Works Billing Software Replacement	Public Works Administrative Manager	-	10,000	100,000	100,000	50,000	260,000	
	2097DI1401	Adjust Utility Facilities in NDOT/Washoe County Right of Way	Senior Engineer	60,000	60,000	60,000	60,000	60,000	300,000	
	2097HE1725	Loader Tire Chains	Fleet Superintendent	-	-	9,900	9,900	-	19,800	
	2097HE1729	2002 Caterpillar 950G Loader #523	Fleet Superintendent	-	-	265,000	-	-	265,000	
	2097HE1730	2002 Caterpillar 950G Loader #525	Fleet Superintendent	-	-	-	265,000	-	265,000	
	2097HE1750	1997 Forklift #315	Fleet Superintendent	-	-	-	-	36,000	36,000	
	2097HE1751	2013 Trackless Snowblower #687	Fleet Superintendent	-	-	-	165,000	-	165,000	
	2097HE1752	2001 105KW Mobile Generator #313	Fleet Superintendent	-	-	-	50,000	-	50,000	
	2097HV1754	1996 Peterbilt Dump Truck #299	Fleet Superintendent	75,000	-	-	-	-	75,000	
	2097HV1755	2001 Peterbilt Bin Truck #468	Fleet Superintendent	-	-	190,000	-	-	190,000	
	2097LE1720	Snowplow #300A	Fleet Superintendent	-	-	18,000	-	-	18,000	
	2097LE1721	Snowplow #307A	Fleet Superintendent	-	-	-	18,000	-	18,000	
	2097LE1722	Slurry Liquidator #326	Fleet Superintendent	-	-	41,000	-	-	41,000	
	2097LE1723	2004 9' Western Snow Plow #542A	Fleet Superintendent	9,000	-	-	-	-	9,000	



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	2097LE1724	2015 Sander/Spreader #710	Fleet Superintendent	20,000	-	-	-	-	20,000
	2097LI1401	Pavement Maintenance, Utility Facilities	Senior Engineer	45,000	299,000	12,500	12,500	12,500	381,500
	2097LI1701	Pavement Maintenance, Reservoir 3-1 WPS 4-2/5-1	Senior Engineer	-	10,000	165,000	-	-	175,000
	2097LV1710	2013 Chevy Equinox	Fleet Superintendent	-	-	-	-	37,000	37,000
	2097LV1734	2013 1/2 Ton Pick-Up #677 Treatment	Fleet Superintendent	-	-	-	-	37,000	37,000
	2097LV1738	2009 Chevrolet 1/2 Ton Pick-up Truck #631	Fleet Superintendent	-	-	30,000	-	-	30,000
	2097LV1739	2009 Chevrolet 1/2 Ton Pick-up Truck #632 Engineering Dept.	Fleet Superintendent	-	-	32,000	-	-	32,000
	2097LV1740	2012 Extend-A-Cab Pick-up #678 Pipeline Dept.	Fleet Superintendent	-	-	-	32,000	-	32,000
	2097LV1743	2013 1-Ton Flatbed #679 Pipeline Dept.	Fleet Superintendent	-	-	-	-	44,000	44,000
	2097LV1744	2012 1-Ton Service Truck w/ Liftgate #668 Treatment	Fleet Superintendent	-	-	-	43,000	-	43,000
	2097LV1745	2013 1-Ton Service Truck #680 Utilities Electrician	Fleet Superintendent	-	-	-	-	44,000	44,000
	2097LV1746	2004 GMC 1-Ton Flatbed #542 Pipeline Dept.	Fleet Superintendent	48,000	-	-	-	-	48,000
	2097LV1747	2008 Chevrolet Service Truck #609 Meter Truck	Fleet Superintendent	36,000	-	-	-	-	36,000
	2097LV1749	2011 Chevrolet Service Truck #647 Treatment	Fleet Superintendent	-	45,000	-	-	-	45,000
	2097OE1205	Large Format Printer Replacement	Public Works Contract Administrator	-	-	-	-	29,000	29,000
	Total			308,000	621,000	1,028,400	804,400	349,500	3,111,300
Water	2299DI1102	Water Pumping Station Improvements	Principal Engineer	45,000	50,000	50,000	50,000	50,000	245,000
	2299DI1103	Replace Commercial Water Meters, Vaults and Lids	Collection/Distribution Supervisor	20,000	40,000	40,000	40,000	40,000	180,000
	2299DI1204	Water Reservoir Coatings and Site Improvements	Utility Maintenance Specialist	85,000	85,000	85,000	60,000	80,000	395,000
	2299DI1401	Burnt Cedar Water Disinfection Plant Improvements	Engineering Manager	50,000	55,000	25,000	25,000	25,000	180,000
	2299DI1701	Water Reservoir Safety and Security Improvements	Engineering Manager	10,000	250,000	-	-	-	260,000
	2299DI1702	Water Pump Station 2-1 Improvements	Engineering Manager	-	-	-	300,000	-	300,000
	2299DI1707	Burnt Cedar Water Disinfection Plant Emergency Generator Fuel Tank Upgrades	Engineering Manager	200,000	-	-	-	-	200,000
	2299DI2603	Residential meter and electronics replacement	Collection/Distribution Supervisor	-	-	-	-	150,000	150,000
	2299LV1720	2013 Mid Size Truck #675 Compliance	Fleet Superintendent	-	-	31,000	-	-	31,000
	2299WS1704	Watermain Replacement - Martis Peak Road	Senior Engineer	50,000	625,000	-	-	-	675,000
	2299WS1705	Watermain Replacement - Crystal Peak Road	Senior Engineer	-	-	50,000	845,000	-	895,000
	2299WS1706	Watermain Replacement - Rifle Pk Ct, Slott Pk Ct	Senior Engineer	-	50,000	325,000	-	-	375,000
	2299WS1802	Watermain Replacement - Alder Avenue	Senior Engineer	-	-	-	-	535,000	535,000
	2299WS1803	Watermain Replacement - Future	Senior Engineer	-	-	-	-	50,000	50,000
	2299WS1804	R6-1 Tank Road Construction	Senior Engineer	-	15,000	110,000	-	-	125,000
	Total			460,000	1,170,000	716,000	1,320,000	930,000	4,596,000
Sewer	2523HE1723	2001 Sellick Forklift #499	Fleet Superintendent	-	-	-	-	65,000	65,000
	2523HV1721	2006 Kenworth T800 Bin truck #587	Fleet Superintendent	-	-	197,200	-	-	197,200
	2524HE1725	2008 Chevrolet Camera Truck #615	Fleet Superintendent	-	-	-	-	85,000	85,000
	2524SS1010	Effluent Export Project - Phase II	Engineering Manager	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	10,000,000
	2599BD1105	Building Upgrades Water Resource Recovery Facility	Utility Superintendent	10,000	80,000	40,000	30,000	50,000	210,000
	2599DI1104	Sewer Pumping Station Improvements	Engineering Manager	15,000	60,000	30,000	30,000	50,000	185,000
	2599DI1701	Sewer Pumping Station 14 Improvements	Engineering Manager	-	-	-	-	30,000	30,000
	2599DI1703	Sewer Pump Station #1 Improvements	Principal Engineer	250,000	-	-	-	-	250,000
	2599SS1102	Water Resource Recovery Facility Improvements	Utility Superintendent	100,000	75,000	75,000	100,000	175,000	525,000
	2599SS1103	Wetlands Effluent Disposal Facility Improvements	Utility Maintenance Specialist	10,000	75,000	100,000	100,000	100,000	385,000
	2599SS1203	Replace & Reline Sewer Mains, Manholes and Appurtenances	Senior Engineer	10,000	55,000	110,000	55,000	105,000	335,000



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	2599SS1702	WRRF Biosolids Bins	Utility Superintendent	-	-	-	-	45,000	45,000
	2599SS1707	WRRF Aeration System Improvements	Engineering Manager	1,200,000	-	-	-	-	1,200,000
	2599SS1901	Wastewater Resource Recovery Facility (WRRF) Drainage Improvements	Senior Engineer	-	12,500	-	-	-	12,500
	2599SS2107	Update Camera Equipment	Collection/Distribution Supervisor	-	60,000	-	-	-	60,000
	Total			3,595,000	2,417,500	2,552,200	2,315,000	2,705,000	13,584,700
		Total Utilities		4,363,000	4,208,500	4,296,600	4,439,400	3,984,500	21,292,000
Internal Service									
Fleet	5190ME1201	Replacement Shop Tools and Equipment	Fleet Superintendent	-	-	-	16,000	-	16,000
	5197CO1801	Fleet Software upgrade - manages rolling stock/equip	Fleet Superintendent	-	14,000	-	-	-	14,000
	5197LE1720	Replace 2007 Vehicle/Equipment Trailer	Fleet Superintendent	-	-	-	-	10,850	10,850
	Total			-	14,000	-	16,000	10,850	40,850
Buildings	5394LE1723	2003 Genie Scissor Lift	Fleet Superintendent	-	-	16,000	-	-	16,000
	5394LE1724	2004 Equipment Trailer (Tilt)	Fleet Superintendent	-	-	5,200	-	-	5,200
	5394LV1720	Replace 2005 Service Truck 4X4 (1-ton) #555	Fleet Superintendent	-	-	43,600	-	-	43,600
	5394LV1722	Replace 2004 Pick-up Truck 4X4 (1/2-ton) #540	Fleet Superintendent	-	5,000	-	-	-	5,000
	Total			-	5,000	64,800	-	-	69,800
		Total Internal Service		-	19,000	64,800	16,000	10,850	110,650
Community Services									
Championship Golf	3141BD1706	Venue Signage Enhancement	Director of Golf	40,000	-	-	-	-	40,000
	3141FF1804	Champ Golf Exterior Icemaker Replacement	Buildings Superintendent	-	10,500	-	-	-	10,500
	3141FF1903	Championship Golf Course Bear Boxes	Grounds Superintendent Golf Courses	7,000	6,000	-	-	-	13,000
	3141GC1103	Irrigation Improvements	Grounds Superintendent Golf Courses	30,000	15,000	26,000	15,000	15,000	101,000
	3141GC1501	Maintenance Building Drainage, Washpad and Pavement improvements	Principal Engineer	30,000	700,000	-	-	-	730,000
	3141GC1802	Championship Course Greens and Surrounds	Grounds Superintendent Golf Courses	15,000	-	-	-	-	15,000
	3141GC1803	Championship Course Tees	Grounds Superintendent Golf Courses	15,000	-	-	-	45,000	60,000
	3141LI1201	Pavement Maintenance of Parking Lots - Champ Course & Chateau	Senior Engineer	17,500	52,500	45,000	10,000	515,000	640,000
	3141LI1202	Pavement Maintenance of Cart Paths - Champ Course	Senior Engineer	60,000	62,500	55,000	55,000	55,000	287,500
	3141LV1898	Championship Golf Course Electric Cart Fleet and GPS	Director of Golf	-	378,000	-	-	-	378,000
	3142LE1722	2001 Shattertine Aerifier #500	Fleet Superintendent	-	-	-	-	8,000	8,000
	3142LE1733	2005 Carryall Club Car #564	Fleet Superintendent	11,000	-	-	-	-	11,000
	3142LE1734	2005 Carryall Club Car #565	Fleet Superintendent	11,000	-	-	-	-	11,000
	3142LE1735	2005 Carryall Club Car #566	Fleet Superintendent	11,000	-	-	-	-	11,000
	3142LE1736	2005 Carryall Club Car #567	Fleet Superintendent	11,000	-	-	-	-	11,000
	3142LE1737	2006 Carryall Club Car #589	Fleet Superintendent	-	12,000	-	-	-	12,000
	3142LE1738	2006 Carryall Club Car #590	Fleet Superintendent	-	12,000	-	-	-	12,000
	3142LE1739	2006 Carryall Club Car #591	Fleet Superintendent	-	12,000	-	-	-	12,000
	3142LE1741	2016 Bar Cart #724	Fleet Superintendent	-	29,000	-	-	-	29,000
	3142LE1742	2016 Bar Cart #725	Fleet Superintendent	-	29,000	-	-	-	29,000
	3142LE1743	2017 Toro Sand Pro 3020 #744	Fleet Superintendent	-	-	-	-	22,000	22,000
	3142LE1745	2011 Toro 3500D Mower #649	Fleet Superintendent	-	-	-	-	43,500	43,500



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	3142LE1746	2012 JD 8500 Fairway Mower #670	Fleet Superintendent	-	92,000	-	-	-	92,000
	3142LE1747	2011 Toro Groundsmaster 4000D #650	Fleet Superintendent	-	50,000	-	-	-	50,000
	3142LE1748	2015 Toro Greensmaster 1600 #711	Fleet Superintendent	-	-	-	10,000	11,300	21,300
	3142LE1749	2015 Toro Greensmaster 1600 #712	Fleet Superintendent	-	-	-	10,000	11,300	21,300
	3142LE1750	2013 JD 3235 Fairway Mower #685	Fleet Superintendent	-	-	92,000	-	-	92,000
	3142LE1751	2004 Toro Greensmaster 1600 #549	Fleet Superintendent	-	-	-	-	11,300	11,300
	3142LE1752	2005 Toro Greensmaster 1600 #574	Fleet Superintendent	-	-	-	-	11,300	11,300
	3142LE1753	2011 Toro Greensmaster 1000 #652	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1754	2011 Toro Greensmaster 1000 #653	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1755	2011 Toro Greensmaster 1000 #654	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1756	2011 Toro Greensmaster 1000 #655	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1757	2011 Toro Greensmaster 1000 #656	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1758	2011 Toro Greensmaster 1000 #657	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1759	2014 3500D Toro Rotary Mower #693	Fleet Superintendent	-	-	38,000	-	-	38,000
	3142LE1760	Replacement of 2010 John Deere 8500 #641	Fleet Superintendent	92,000	-	-	-	-	92,000
	3143GC1202	Driving Range Improvements	Grounds Superintendent Golf Courses	31,000	-	-	-	34,000	65,000
	3144FF1702	Replace Icemaker Championship Golf Course Cart Barn	Buildings Superintendent	-	-	10,980	-	-	10,980
	3153BD2001	Recoat Chateau F&B Grill and Catering Kitchen Floors	Buildings Superintendent	-	-	37,200	-	-	37,200
	3153FF1204	Champ Grille Kitchen Equipment	Food and Beverage Director	46,200	-	-	-	-	46,200
	3197HV1749	1997 1-Ton Dump Truck #419	Fleet Superintendent	5,000	-	-	-	44,000	49,000
	3197LE1724	2000 Toro Spreader #462	Fleet Superintendent	-	-	-	13,700	-	13,700
	3197LE1726	2001 Spiker/Seeder #477	Fleet Superintendent	-	-	-	12,000	-	12,000
	3197LE1728	2013 Toro Top Dresser #686	Fleet Superintendent	-	-	13,000	-	-	13,000
	3197LE1729	2006 Toro 1250 Spray Rig #586	Fleet Superintendent	-	-	-	-	35,000	35,000
	3197LE1731	2008 Planetair HD50 #616	Fleet Superintendent	-	35,000	-	-	35,000	70,000
	3197LE1732	2015 John Deere 1500 Fairway Aerator #716	Fleet Superintendent	27,000	-	-	-	-	27,000
	3197LE1733	2008 JD TC125 Core Harvester #621	Fleet Superintendent	-	-	12,400	-	-	12,400
	3197LE1734	2008 Bandit Brush Chipper #625	Fleet Superintendent	-	-	42,000	-	-	42,000
	3197LE1735	2017 TORO PROCORE 864 AERATOR #747	Fleet Superintendent	-	-	-	15,400	-	15,400
	3197LE1740	2005 John Deere Pro Gator #569	Fleet Superintendent	34,500	-	-	-	-	34,500
	3197LE1741	2015 Greens Roller #715	Fleet Superintendent	17,000	-	-	-	-	17,000
	3197LE1742	2014 Vibratory Greens Roller #696	Fleet Superintendent	17,000	-	-	-	-	17,000
	3197LE1746	2004 John Deere 4410 Tractor #548	Fleet Superintendent	40,000	-	-	-	-	40,000
	3197LE1748	Replace Blade Grinding Equipment	Fleet Superintendent	-	41,200	-	-	-	41,200
	3197LE1902	Graden Sand Injection Verticutter	Fleet Superintendent	-	18,500	-	-	-	18,500
	3197ME1710	Maintenance Shop Crane and Equipment Lift	Fleet Superintendent	30,000	-	-	-	-	30,000
	3199OE1501	Championship Golf Printer Copier Replacement 955 Fairway	Director of Golf	10,000	-	-	-	-	10,000
	Total			608,200	1,555,200	371,580	141,100	959,100	3,635,180



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Mountain Golf	3241BD1503	Mtn. Golf Course Remodel On Course Bathrooms, #6 & #13/14	Principal Engineer	60,000	-	-	-	-	60,000
	3241GC1101	Mountain Course Greens, Tees and Bunkers	Grounds Superintendent Golf Courses	43,000	18,000	-	-	-	61,000
	3241GC1404	Irrigation Improvements	Grounds Superintendent Golf Courses	39,000	-	-	30,000	-	69,000
	3241GC1502	Wash Pad Improvements	Principal Engineer	-	-	70,000	-	-	70,000
	3241GC1802	Mountain Course Clubhouse and Maintenance Building Water Service Line Replacement	Senior Engineer	65,000	-	-	-	-	65,000
	3241LI1704	Mountain Golf Course Cart Path Retaining Walls	Senior Engineer	17,500	37,500	12,500	12,500	10,000	90,000
	3241LV1899	Mountain Course 58 Cart Fleet	Director of Golf	288,000	-	-	-	-	288,000
	3241ME1804	Mountain Golf Fuel Storage Facility	Fleet Superintendent	200,000	-	-	-	-	200,000
	3242LE1725	2005 Carryall Club Car #568	Fleet Superintendent	11,000	-	-	-	-	11,000
	3242LE1726	2016 Bar Cart #726	Fleet Superintendent	-	29,000	-	-	-	29,000
	3242LE1728	2015 Toro 4000D Rough Mower #709	Fleet Superintendent	-	-	-	61,000	-	61,000
	3242LE1731	2017 Toro Sand Pro #745	Fleet Superintendent	-	-	-	-	22,000	22,000
	3242LE1732	2016 Toro Tri-Plex Mower #614	Fleet Superintendent	-	-	-	43,400	-	43,400
	3242LI1204	Pavement Maintenance of Parking Lot - Mountain Golf Course	Senior Engineer	22,500	6,000	12,500	12,500	25,000	78,500
	3242LI1205	Pavement Maintenance of Cart Paths - Mountain Golf Course	Senior Engineer	40,000	45,000	45,000	45,000	45,000	220,000
	3299BD1403	Mountain Course Clubhouse and Maintenance Building Renovation and ADA Upgrades	Engineering Manager	-	-	-	95,000	600,000	695,000
	3299BD1702	Replace Roof - Mountain Golf Clubhouse	Buildings Superintendent	25,000	-	-	-	-	25,000
	3299BD1705	Paint Exterior of Mountain Golf Clubhouse	Buildings Superintendent	41,500	-	-	-	-	41,500
	3299BD1902	Mountain Clubhouse Improvements Project	Engineering Manager	1,464,000	-	-	-	-	1,464,000
		Total		2,316,500	135,500	140,000	299,400	702,000	3,593,400
Facilities	3350BD1103	Chateau - Replace Carpet	Buildings Superintendent	62,000	-	-	49,500	68,000	179,500
	3350BD1302	Resurface Patio Deck - Chateau	Buildings Superintendent	-	36,000	-	-	-	36,000
	3350BD1505	Paint Interior of Chateau	Buildings Superintendent	-	-	-	-	40,500	40,500
	3350BD1506	Paint Exterior of Chateau	Buildings Superintendent	-	-	47,000	-	-	47,000
	3350BD1704	Replace Air Walls Chateau	Buildings Superintendent	-	31,360	-	-	-	31,360
	3350BD1804	Replace Hallway Tile at Chateau	Buildings Superintendent	65,000	-	-	-	-	65,000
	3350BD1805	Repair and Refinish Wood Walls Upstairs at Chateau	Buildings Superintendent	10,000	-	-	-	-	10,000
	3350BD1808	Chateau Community Room Ceiling and Beam Refurbishing	Buildings Superintendent	-	-	-	-	25,000	25,000
	3350FF1204	Catering Kitchen Equipment	Food and Beverage Director	18,900	-	-	-	-	18,900
	3350FF1601	Enclose Chateau Exterior Storage Area	Engineering Technician	-	85,000	-	-	-	85,000
	3351BD1501	Aspen Grove - Replace Carpet	Buildings Superintendent	-	-	11,000	-	-	11,000
	3351BD1703	Aspen Grove Outdoor Seating BBQ and Landscaping	Parks Superintendent	-	-	41,400	10,000	-	51,400
	3351BD2101	Dumpster enclosure - Village Green/Aspen Grove	Parks Superintendent	-	-	45,000	-	-	45,000



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	3351L11807	Replacement Sod at Aspen Grove	Sales and Events Coordinator	18,000	-	-	-	-	18,000
	3352FF1104	Replace Banquet Serviceware	Sales and Events Coordinator	-	-	-	-	11,000	11,000
	3352LV1720	Replace 2013 Cargo Truck #690	Fleet Superintendent	-	-	-	38,500	-	38,500
	Total			173,900	152,360	144,400	98,000	144,500	713,160
Ski	3453BD1806	Base Lodge Walk In Cooler and Food Prep Reconfiguration	Engineering Manager	25,000	150,000	-	-	-	175,000
	3453FF1706	Replace Main Lodge/Snowflake Lodge Dinning Furniture and Fixtures	Food and Beverage Director	38,000	52,000	-	-	-	90,000
	3453FF1707	Replacement of Main and Snowflake Lodge Kitchen Equipment	Food and Beverage Director	-	53,000	-	-	-	53,000
	3462CE1902	Diamond Peak Fiber Network to Lifts	IT Analyst	-	-	-	68,000	-	68,000
	3462HE1502	Crystal Express Ski Lift Maintenance and Improvements	Ski Resort General Manager	-	55,000	25,000	345,000	-	425,000
	3462HE1702	Lakeview Ski Lift Maintenance and Improvements	Ski Resort General Manager	250,000	30,000	192,000	-	-	472,000
	3462HE1711	Lodgepole Ski Lift Maintenance and Improvements	Ski Resort General Manager	-	-	60,000	-	320,000	380,000
	3462HE1712	Red Fox Ski Lift Maintenance and Improvements	Ski Resort General Manager	30,000	20,000	-	-	-	50,000
	3462HE1903	Ridge Ski Lift Maintenance and Improvements	Mountain Operations Manager	-	62,000	-	-	-	62,000
	3462LE1720	2016 POLaris Ranger Crew #728	Fleet Superintendent	-	-	-	-	19,000	19,000
	3463HE1721	2013 Snow blower #689	Fleet Superintendent	-	-	-	-	165,900	165,900
	3463HE1722	Loader Tire Chains (1-Set)	Fleet Superintendent	-	-	9,750	-	-	9,750
	3463HE1723	2002 Caterpillar 950G Loader #524	Fleet Superintendent	-	-	265,000	-	-	265,000
	3463HE1727	Replacement of 2008 Grooming vehicle # 628	Fleet Superintendent	390,000	-	-	-	-	390,000
	3463HE1728	Replacement of 2011 Grooming Vehicle # 645	Fleet Superintendent	-	-	400,000	-	-	400,000
	3464BD1403	Resurface Main Lodge Decks	Buildings Superintendent	75,200	-	-	-	-	75,200
	3464HE1902	Replace Snowmaking Air Compressor Microprocessor Control Units	Mountain Operations Manager	100,000	-	-	-	-	100,000
	3464HE1908	1983 CASE 855C TRACK BACKHOE # 348	Fleet Superintendent	-	-	-	250,000	-	250,000
	3464LE1601	Ski Resort Snowmobile Fleet Replacement	Fleet Superintendent	15,500	16,000	16,500	17,000	17,000	82,000
	3464LE1729	Snowplow #304A	Fleet Superintendent	-	-	19,000	-	-	19,000
	3464LE1734	2016 Polaris Ranger Crew #723	Fleet Superintendent	-	-	-	19,000	-	19,000
	3464LV1730	2014 Yamaha ATV #695	Fleet Superintendent	-	-	19,000	-	-	19,000
	3464LV1731	2012 Yamaha ATV #683	Fleet Superintendent	18,000	-	-	-	-	18,000
	3464LV1732	2013 Yamaha Rhino (ATV) #674	Fleet Superintendent	-	21,000	-	-	-	21,000
	3464ME1802	Diamond Peak Fuel Storage Facility	Fleet Superintendent	-	20,000	-	400,000	-	420,000
	3464ME1907	Diesel Exhaust Fluid Storage/Dispenser	Fleet Superintendent	20,000	-	-	-	-	20,000
	3464SI1002	Fan Guns Purchase and Refurbishment	Mountain Operations Manager	130,000	-	-	-	-	130,000
	3467LE1703	Child Ski Center Surface Lift	Ski Resort General Manager	-	-	65,000	-	-	65,000
	3468RE0002	Replace Ski Rental Equipment	Director of Skier Services	200,000	185,000	-	150,000	-	535,000
	3468RE1609	Replace Ski Rental Machinery	Director of Skier Services	-	-	36,000	-	-	36,000



5 Year Capital Improvement Plan Summary - As of 5.22.19

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
	3469HE1739	Replace 2010 Shuttle Bus #635	Fleet Superintendent	-	130,000	-	-	-	130,000
	3469HE1740	Replace 2010 Shuttle Bus #636	Fleet Superintendent	-	130,000	-	-	-	130,000
	3469LI1105	Pavement Maintenance, Diamond Peak and Ski Way	Senior Engineer	55,000	220,000	105,000	105,000	100,000	585,000
	3469LI1805	Ski Way and Diamond Peak Parking Lot Reconstruction	Engineering Manager	225,000	300,000	2,750,000	-	-	3,275,000
	3469LI1805B	Roundabout Alternative for Ski Way Timing to be coordinated with summer operations	Engineering Manager	-	-	-	2,100,000	-	2,100,000
	3469LV1735	2007 Chevy 1-Ton Pick-Up #596	Fleet Superintendent	-	-	40,000	-	-	40,000
	3469LV1736	2007 Chevy 1-Ton Pick-Up #597	Fleet Superintendent	-	-	40,000	-	-	40,000
	3469LV1737	1991 Ski Passenger Tram #267	Fleet Superintendent	-	-	22,700	-	-	22,700
	3469LV1738	1993 Ski Passenger Tram #283	Fleet Superintendent	-	-	-	23,400	-	23,400
	3499BD1710	Diamond Peak Facilities Flooring Material Replacement	Mountain Operations Manager	43,000	40,000	62,000	-	-	145,000
	3499BD1904	Ski Rental Shop Doors	Assistant Buildings Superintendent	13,000	-	-	-	-	13,000
	3499BD1905	HVAC Control Changeout	Assistant Buildings Superintendent	21,000	-	-	-	-	21,000
	3499CE1909	Ecommerce / Middleware Software	IT Analyst	202,000	-	-	-	-	202,000
	3499FF1607	Skier Services Building Customer Service Counter	Principal Engineer	12,000	-	-	-	-	12,000
	3499OE1205	Replace Staff Uniforms	Ski Resort General Manager	-	130,000	-	-	-	130,000
	3499OE1502	Skier Services Administration Printer Copier Replacement 1210 Ski Way	Director of IT	10,000	-	-	-	-	10,000
	Total			1,872,700	1,614,000	4,126,950	3,477,400	621,900	11,712,950
Ski Master Plan Implementation	3653BD1501	2015 Ski Area Master Plan Implementation - Entitlements and Pre-Design	Engineering Manager	-	-	160,000	-	-	160,000
	3653BD1501A	2015 Ski Area Master Plan Implementation - Phase 1 A Listed Activities	Engineering Manager	-	-	1,103,000	1,103,000	-	2,206,000
	3653BD1501B	2015 Ski Area Master Plan Implementation - Phase 1 B Activities - Alpine Coaster	Engineering Manager	-	-	-	-	878,887	878,887
	Total			-	-	1,263,000	1,103,000	878,887	3,244,887
Parks	4378BD1603	Resurface and Coat Incline Park Bathroom Floors	Buildings Superintendent	-	13,940	-	-	-	13,940
	4378BD1604	Resurface and Coat Preston Park Bathroom, Mechanical Room, and Bleacher Floors	Buildings Superintendent	-	-	53,200	-	-	53,200
	4378BD1605	Aspen Grove Flatscape and Retaining Wall Enhancement and Replacement	Senior Engineer	55,000	-	-	145,000	105,000	305,000
	4378BD1701	Dumpster enclosure – Incline Park	Parks Superintendent	-	-	45,000	-	-	45,000
	4378BD1705	Rosewood Creek Foot Bridges	Parks Superintendent	8,000	8,000	-	-	-	16,000
	4378BD1801	Preston Field Retaining Wall Replacement	Principal Engineer	-	64,750	225,000	-	-	289,750
	4378BD1901	Village Green Restroom drainage improvements	Senior Engineer	25,000	-	-	-	-	25,000
	4378DI1702	Incline Park Backflow Device Replacement	Engineering Manager	32,000	-	-	-	-	32,000
	4378LE1720	2013 Surf Rake #684	Fleet Superintendent	-	-	-	-	26,500	26,500
	4378LE1724	2005 Shattertine Aerifier	Fleet Superintendent	8,100	-	-	-	-	8,100
	4378LE1725	2008 Landpride Overseeder #622	Fleet Superintendent	-	17,000	-	-	-	17,000
	4378LE1730	2008 JD Pro-Gator #623	Fleet Superintendent	35,000	-	-	-	-	35,000
	4378LE1731	2008 JD Pro-Gator #624	Fleet Superintendent	-	36,000	-	-	-	36,000
	4378LE1739	2013 Ball Field Groomer #681	Fleet Superintendent	17,100	-	-	-	-	17,100
	4378LE1740	2013 Ball Field Mower / Toro 3500D Groundsmaster #682	Fleet Superintendent	35,400	-	-	-	-	35,400
	4378LE1742	2015 Ball Field Groomer #706	Fleet Superintendent	-	17,500	-	20,000	-	37,500



5 Year Capital Improvement Plan Summary - As of 5.22.19

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total	
	4378LI1207	Pavement Maintenance, East & West End Parks	Senior Engineer	-	-	-	17,500	37,500	55,000	
	4378LI1303	Pavement Maintenance, Village Green Parking	Senior Engineer	5,000	12,500	5,000	22,500	-	45,000	
	4378LI1403	Pavement Maintenance, Preston Field	Senior Engineer	5,000	5,000	27,500	6,000	6,000	49,500	
	4378LI1504	Incline Creek Restoration Project - Upstream of SR-28 (Net of Grants)	Principal Engineer	163,200	-	-	-	-	163,200	
	4378LI1602	Pavement Maintenance, Overflow Parking Lot	Senior Engineer	5,000	5,000	5,000	27,500	5,000	47,500	
	4378LI1802	Pavement Maintenance - Incline Park	Senior Engineer	7,500	3,500	7,500	3,500	-	22,000	
	4378LV1734	2011 Pick-Up with Lift gate (1-ton) #646	Fleet Superintendent	-	-	-	42,500	-	42,500	
	4378LV1735	2005 Pick-up Truck 4x4 (1-Ton) #554	Fleet Superintendent	-	-	43,000	-	-	43,000	
	4378LV1736	2003 1-Ton Service Truck #520	Fleet Superintendent	43,000	-	-	-	-	43,000	
	4378LV1737	2004 Pick-up Truck 4x4 (1-Ton) #541	Fleet Superintendent	-	43,000	-	-	-	43,000	
	4378RS1501	Replace Previous Incline Park Playground	Principal Engineer	-	-	20,000	100,000	-	120,000	
	4378RS1601	Replace Preston Park Playgrounds	Principal Engineer	-	15,000	100,000	-	-	115,000	
		Total			444,300	241,190	531,200	384,500	180,000	1,781,190
	Tennis	4588BD1602	Paint All Court Fences and Light Poles, Replace Wind Screens	Buildings Superintendent	-	51,000	-	-	-	51,000
	4588BD1604	Tennis Center Renovation	Engineering Manager	1,285,000	-	-	-	-	1,285,000	
	4588LI1201	Pavement Maintenance, Tennis Facility	Senior Engineer	23,500	5,000	5,000	5,000	10,000	48,500	
	4588RS1401	Resurface Tennis Courts 8-9-10-11	Director of Parks and Recreation	-	17,600	-	-	-	17,600	
	4588RS1402	Resurface Tennis Courts 3 thru 7	Director of Parks and Recreation	-	-	-	-	23,000	23,000	
	4588RS1501	Resurface Tennis Courts 1 and 2	Director of Parks and Recreation	47,000	-	-	-	-	47,000	
		Total		1,355,500	73,600	5,000	5,000	33,000	1,472,100	
Recreation Center	4884BD1601	Recreation Center Natatorium Mezzanine Safety Enhancements	Buildings Superintendent	90,000	-	-	-	-	90,000	
	4884BD1702	Replace Bird Netting	Buildings Superintendent	-	-	-	-	17,720	17,720	
	4884BD1703	Replace Walkway Bollard Lights	Buildings Superintendent	55,000	-	-	-	-	55,000	
	4884BD1705	Upgrade Lights for I.P. Pathway	Buildings Superintendent	-	-	27,000	-	-	27,000	
	4884BD1804	Chemtrol System for Recreation Center Pool	Director of Parks and Recreation	-	-	22,000	-	-	22,000	
	4884BD1902	Recreation Center Upstairs Lobby Restrooms Remodel	Recreation Center Manager	-	31,504	-	-	-	31,504	
	4884CE1903	External Surveillance Security Cameras for Recreation Center	Director of Parks and Recreation	15,000	-	-	-	-	15,000	
	4884FF1501	Resurface Recreation Center Patio Deck	Buildings Superintendent	-	-	-	-	28,620	28,620	
	4884FF1502	Repair Deck Stairs and Powder Coat All Patio Deck Railings	Buildings Superintendent	20,000	-	-	-	-	20,000	
	4884LI1102	Pavement Maintenance, Recreation Center Area	Senior Engineer	57,500	62,500	5,000	357,500	307,500	790,000	
	4884RS1503	Replaster Recreation Center Pool	Buildings Superintendent	-	-	200,000	-	-	200,000	
	4885BD1606	Pool Facility Deck/Floor Re-coat	Recreation Center Manager	34,000	-	-	-	35,500	69,500	



5 Year Capital Improvement Plan Summary - As of 5.22.19

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
	4886LE0001	Fitness Equipment	Recreation Center Manager	44,200	45,000	47,250	49,000	-	185,450
	4899BD1305	Paint Interior of Recreation Center	Buildings Superintendent	15,500	-	15,500	-	15,500	46,500
	4899BD1801	Paver install Front Walkway at Recreation Center	Buildings Superintendent	82,500	-	-	-	-	82,500
	4899LV1721	2012 15-Passenger Van #667	Fleet Superintendent	-	-	45,800	-	-	45,800
	4899OE1607	Recreation Center Printer Copier Replacement 980 Incline Way	IT Analyst	-	20,000	-	-	-	20,000
	Total			413,700	159,004	362,550	406,500	404,840	1,746,594
Community Services Shared	4999OE1399	Web Site Redesign and Upgrade	Marketing Manager	-	80,000	-	-	-	80,000
	Total			-	80,000	-	-	-	80,000
		Total Community Services Less Master Plan Implementation		7,184,800	4,010,854	5,681,680	4,811,900	3,045,340	24,734,574
		Total Community Services With Master Plan Implementation		7,184,800	4,010,854	6,944,680	5,914,900	3,924,227	27,979,461
Beaches									
Beaches	3970BD2601	Burnt Cedar Swimming and Toddler Pool Improvements	Engineering Manager	800,000	1,450,000	-	-	-	2,250,000
	3972BD1301	Pavement Maintenance, Ski Beach	Senior Engineer	11,000	6,000	8,500	15,000	256,000	296,500
	3972BD1501	Beaches Flatscape and Retaining Wall Enhancement and Replacement	Senior Engineer	55,000	55,000	55,000	55,000	55,000	275,000
	3972BD1707	Burnt Cedar Dumpster enclosure	Senior Engineer	10,000	35,000	-	-	-	45,000
	3972FF1704	Beach Furnishings	Parks Superintendent	-	7,000	21,000	-	-	28,000
	3972LI1201	Pavement Maintenance, Incline Beach	Senior Engineer	-	6,500	5,000	7,500	16,500	35,500
	3972LI1202	Pavement Maintenance, Burnt Cedar Beach	Senior Engineer	6,000	6,000	17,500	7,500	310,000	347,000
	3972RS1701	Replace Playgrounds	Principal Engineer	-	30,000	100,000	100,000	-	230,000
	3973FF1204	Incline Beach Kitchen	Food and Beverage Director	-	-	7,260	-	-	7,260
	3974FF1101	Burnt Cedar Beach Kitchen	Food and Beverage Director	-	-	6,800	-	-	6,800
	3999BD1702	Resurface Burnt Cedar Pool Patio Deck	Buildings Superintendent	-	29,100	-	-	-	29,100
	3999BD1703	Replace Ski Beach Entrance Gate	Buildings Superintendent	-	-	-	-	19,500	19,500
	3999BD1708	Ski Beach Bridge Replacement	Senior Engineer	-	-	-	120,000	-	120,000
	3999DI1706	Burnt Cedar Beach Backflow Device Replacement	Engineering Manager	-	-	-	45,000	-	45,000
	Total			882,000	1,624,600	221,060	350,000	657,000	3,734,660
	Total w/o DP Master Plan			12,915,245	10,306,104	10,654,240	9,887,250	11,008,590	54,771,429
	Total w/ DP Master Plan			12,915,245	10,306,104	11,917,240	10,990,250	11,887,477	58,016,316



5 Year Capital Improvement Plan Summary - As of 5.22.19
General Fund

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
General Fund									
Accounting/ Information Systems	1213CE1101	IT Master Plan - IT Security Devices	Director of IT	15,000	15,000	-	-	-	30,000
	1213CE1501	District Wi-fi Installation Update	Director of IT	-	60,000	-	-	-	60,000
	1213CE1701	District Communication Radios	Network Administrator	6,000	6,000	10,000	-	-	22,000
	1213CE1901	District Wide Update to Voice Over iPhone System	IT Analyst	-	60,000	66,000	-	-	126,000
	1213CO1505	IT Infrastructure	Director of IT	132,800	91,800	92,000	-	-	316,600
	1213CO1703	District Wide PC, Laptops, Peripheral Equipment and Desk Top	IT Technician	95,000	97,050	100,000	102,950	105,900	500,900
	1213CO1802	Microsoft Exchange Server	Director of IT	28,600	-	-	-	-	28,600
	1213CO1803	Microsoft Office Licenses	Director of IT	9,045	9,300	9,600	-	-	27,945
	1213CO1804	Windows Server Operating System	Director of IT	14,000	14,000	-	-	-	28,000
	1213LV1721	IS&T Pick-up Truck and Cargo Unit	Fleet Superintendent	-	-	-	12,000	-	12,000
	Total			300,445	353,150	277,600	114,950	105,900	1,152,045
General	1099BD1501	Admin Roof Replacement	Buildings Superintendent	-	85,000	-	-	-	85,000
	1099BD1502	Upgrade Public Bathrooms at Administration for ADA Compliance	Buildings Superintendent	-	-	75,000	-	-	75,000
	1099BD1701	Administration Services Building	Engineering Manager	-	-	-	150,000	3,200,000	3,350,000
	1099LI1705	Pavement Maintenance - Administration Building	Senior Engineer	5,000	5,000	5,000	5,000	5,000	25,000
	1099OE1401	Admin Printer Copier Replacement - 893 Southwood Administration Building	District Clerk	-	-	32,500	-	-	32,500
	1315CO1801	Human Resource Management and Payroll Processing Software	Director of Human Resources	180,000	-	-	-	-	180,000
	Total			185,000	90,000	112,500	155,000	3,205,000	3,747,500
		Total General Fund		485,445	443,150	390,100	269,950	3,310,900	4,899,545



Project Summary

Project Number:	1213CE1101
Title:	IT Master Plan - IT Security Devices
Project Type:	G - Equipment & Software
Division:	13 - Information Services
Budget Year:	2020
Finance Option:	
Asset Type:	CE - Communications Equipment
Active:	Yes

Project Description				
The IT Master Plan Project Firewall/Remote Access appliances are the District's protection from outside intrusion to our internal network. This project provides for replacement of critical security & network hardware: firewall appliances and anti-spam appliance and/or other related network & internet devices to accomplish the same objective.				
Project Internal Staff				
IT staff will make an annual evaluation of the condition of the equipment and the operational effectiveness of the technology and related operating platforms to make a determination for replacement or upgrade.				
Project Justification				
In our current Internet environment outside attacks can come in many different forms and we need to keep this mission critical equipment up to date with vendor support. Firewall/Remote Access network appliance - protection from outside intrusion to our internal network and provides for remote access for District Staff and when appropriate third party providers. -Anti-spam appliance – blocks 90% of spam & viruses from reaching user email inboxes (averages 1,900+ messages/day). The industry standard life-cycle of firewall appliances is three years. In 2015 we replaced the main firewall devices through 2020. The District security devices in many places. This project is to provide for replacements of need, based on care and condition or changes in technology. The estimated project cost is for replacement of devices and a support agreement.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
IT Security Devices	15,000	0	15,000	
Year Total	15,000	0	15,000	
2021				
IT Security Devices	15,000	0	15,000	
Year Total	15,000	0	15,000	
2030				
IT Security Devices	11,000	0	11,000	
Year Total	11,000	0	11,000	
2033				
IT Security Devices	11,250	0	11,250	
Year Total	11,250	0	11,250	
2036				
IT Security Devices	11,500	0	11,500	
Year Total	11,500	0	11,500	
	63,750	0	63,750	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner

2012		Director of IT	
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Project Summary

Project Number:	1213CE1501
Title:	District Wi-fi Installation Update
Project Type:	G - Equipment & Software
Division:	13 - Information Services
Budget Year:	2020
Finance Option:	
Asset Type:	CE - Communications Equipment
Active:	Yes

Project Description					
Maintain installed District Wi-Fi equipment and routers in public traffic areas, using bandwidth based on available unused internal fiber Ethernet capacity. In 2015 new Wi-Fi equipment was installed to provide segregation of public traffic and District internal use lines. Public use was established where bandwidth for such public traffic can be secured & limited to have relatively low impact on the internal business network, yet provide faster and more stable public access. Replacement will consider best of breed equipment, current industry standards and user needs.					
Project Internal Staff					
Information Technology – work with 3rd party to specify, procure, install & configure equipment. Internal IT to support ongoing utilization.					
Project Justification					
Public Wi-Fi is currently provided at Admin, Rec Center, Diamond Peak, the Beaches and the Chateau & Aspen Grove via a existing connections. Service has become a standard expectation for customers. It facilitates transactions and provides additional experience and access to media for both transaction support and casual use. Wi-Fi provides critical connectivity for operations where data lines are not practical. Future updates will consider other venues when connectivity is available.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2021					
Equipment Refresh/Reimplmentation	60,000	0	60,000		
Year Total	60,000	0	60,000		
2026					
Equipment Refresh/Reimplmentation	72,000	0	72,000		
Year Total	72,000	0	72,000		
2030					
Equipment Refresh/Reimplmentation	84,000	0	84,000		
Year Total	84,000	0	84,000		
2035					
Equipment Refresh/Reimplmentation	96,000	0	96,000		
Year Total	96,000	0	96,000		
	312,000	0	312,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2014			Director of IT		



Project Summary

Project Number:	1213CE1701
Title:	District Communication Radios
Project Type:	G - Equipment & Software
Division:	13 - Information Services
Budget Year:	2020
Finance Option:	
Asset Type:	CE - Communications Equipment
Active:	Yes

Project Description
 Maintenance of a fleet of critical communication devices through 54 radios which are shared between venues and 25 radios that are assigned directly to venues year round. The system also requires maintaining 2 base stations.

Project Internal Staff
 The IT Network Administrator deals with check in and check out between venues, coordinates annual maintenance of the radios with an outside vendor, and evaluates the care and condition of the radios over time.

Project Justification
 As of 2016 34 of the radios are fairly new models. However the other 45 are a mix of older models that are anywhere from 10 to 20 years old. With technology changes as well as the need for compatibility, we should bring the entire group into a closer grouping of ages. The project works to make the best 15 replacements each of 3 successive years. After that time this project will consider the care and condition, along with functionality and compatibility to make necessary replacements. We can expect at least 5 years service life under normal use.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Best replacement of 15 radios	6,000	0	6,000
Year Total	6,000	0	6,000
2021			
Best replacement of 15 radios	6,000	0	6,000
Year Total	6,000	0	6,000
2022			
Best replacement of 15 radios	10,000	0	10,000
Year Total	10,000	0	10,000
	22,000	0	22,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	Jul 1, 2016	Jun 30, 2022	Network Administrator	



Project Summary

Project Number:	1213CE1901
Title:	District Wide Update to Voice Over iPhone System
Project Type:	G - Equipment & Software
Division:	13 - Information Services
Budget Year:	2020
Finance Option:	
Asset Type:	CE - Communications Equipment
Active:	Yes

Project Description				
Upgrade remaining Analog phones to Digital VoIP phones using the same system as Public Works and the Rec. Center. Pacific State Communication has been the selected vendor for these systems under regional governmental buying groups. Using the services of Pacific States Communication to acquire, configure and install all related hardware. Pac States Comm. will advise the Network Administrator of any required changes to the IP network and assist with setup if need be. Pac States Comm. will facilitate all aspects of implementation. This cost also includes an upgrade license to the current MiTel software to allow more users to connect.				
Project Internal Staff				
Information technology staff				
Project Justification				
Implementation of a complete unified VoIP system will allow collaboration and direct communication between district locations using the current IP network removing the need to pay for individual Analog phone service in many locations. VoIP is the standard for business phone systems. This system will allow the District to standardize its phone system throughout all venues. Installations at Ski and the Chateau complexes would be spread over two years to allow proper planning and off season implementation.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Ski VoIP Implementation	60,000	0	60,000	
Year Total	60,000	0	60,000	
2022				
Admin VoIP Implementation	36,000	0	36,000	
Golf VoIP Implementation	30,000	0	30,000	
Year Total	66,000	0	66,000	
	126,000	0	126,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Jul 15, 2019	Jun 30, 2021	IT Analyst	



Project Summary

Project Number: 1213CO1505
Title: IT Infrastructure
Project Type: G - Equipment & Software
Division: 13 - Information Services
Budget Year: 2020
Finance Option:
Asset Type: CO - Computer Equipment
Active: Yes

Project Description

During 2014-15 the District replaced substantially all of its networks servers, switches and ancillary support equipment. Various service lives will be experienced that are likely to extend beyond the technological useful life of this equipment. Only time will tell which will dictate a replacement, based on end of life or technological incompatibility. For the purposes of this project, timing will be set by expected service life.

Project Internal Staff

IT staff will conduct annual evaluations of the condition of equipment and the relationship of operating software and platforms to compatibility and effectiveness for how the systems are used and operated.

Project Justification

The District has committed to building and maintaining a redundant private cloud operation. Reliable equipment utilizing current technology and operating systems is a key feature to having IT networks that supports all operations 24/7/365.

Forecast

Budget Year	Total Expense	Total Revenue	Difference
2020			
Admin (2) Support Sever for the Cluster	29,900	0	29,900
Admin Host Server for the Cluster	17,250	0	17,250
License SQL Server and Related CALS	50,000	0	50,000
PW (2) Support Server for the CLuster	18,400	0	18,400
PW Host Server for the Cluster	17,250	0	17,250
Year Total	132,800	0	132,800
2021			
21 POE Swtiches	70,500	0	70,500
Admin Backbone Switch	14,600	0	14,600
PW Backbone Switch	6,700	0	6,700
Year Total	91,800	0	91,800
2022			
Admin Storage Net App	46,000	0	46,000
PW Storage Net App	46,000	0	46,000
Year Total	92,000	0	92,000

2025			
Admin (2) Support Sever for the Cluster	34,400	0	34,400
Admin Host Server for the Cluster	19,800	0	19,800
License SQL Server and Related CALS	50,000	0	50,000
PW (2) Support Server for the CLuster	21,200	0	21,200
PW Host Server for the Cluster	19,800	0	19,800
Year Total	145,200	0	145,200
2026			
21 POE Swtiches	79,000	0	79,000
Admin Backbone Switch	16,300	0	16,300
PW Backbone Switch	7,500	0	7,500
Year Total	102,800	0	102,800
2029			
Admin Storage Net App	55,600	0	55,600
PW Storage Net App	55,600	0	55,600
Year Total	111,200	0	111,200
2030			
Admin (2) Support Sever for the Cluster	39,500	0	39,500
Admin Host Server for the Cluster	22,800	0	22,800
License SQL Server and Related CALS	50,000	0	50,000
PW (2) Support Server for the CLuster	24,200	0	24,200
PW Host Server for the Cluster	22,800	0	22,800
Year Total	159,300	0	159,300
2031			
21 POE Swtiches	99,000	0	99,000
Admin Backbone Switch	20,500	0	20,500
PW Backbone Switch	9,400	0	9,400
Year Total	128,900	0	128,900
2035			
21 POE Swtiches	111,000	0	111,000
Admin (2) Support Sever for the Cluster	45,500	0	45,500
Admin Backbone Switch	22,900	0	22,900
Admin Host Server for the Cluster	26,000	0	26,000
License SQL Server and Related CALS	50,000	0	50,000

PW (2) Support Server for the CLuster	28,000	0	28,000	
PW Backbone Switch	10,600	0	10,600	
PW Host Server for the Cluster	26,000	0	26,000	
Year Total	320,000	0	320,000	
	1,284,000	0	1,284,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2015			Director of IT	



Project Summary

Project Number:	1213CO1703
Title:	District Wide PC, Laptops, Peripheral Equipment and Desk Top Printers
Project Type:	G - Equipment & Software
Division:	13 - Information Services
Budget Year:	2020
Finance Option:	
Asset Type:	CO - Computer Equipment
Active:	Yes

Project Description			
District wide, various offices and venue operations utilize approximately 200 personal computers, up to 50 laptops, at least 100 peripheral devices such as receipt printers and specialty screens and 50 desk top printers. The District supports user levels as super , basic and specialty profiles for computers and related devices. Printers for the most part are black ink for letter size images. Several do have additional features that are necessary for their particular programming such as tournaments and events. These printers were purchased expecting a use life of at least 5 years. Some may be longer depending on the nature of the volume for that venue. Maintenance of the comprehensive list of printers is under one agreement.			
Project Internal Staff			
The IT Technician will oversee the maintenance of these personal computers and peripheral devices, and the printers which includes the monitoring their care and condition for eventual replacement. The IT Network Administrator monitors the number of users and circumstances under which laptops and the printers are available on the network or dedicated to a user or program.			
Project Justification			
The approach to replacement is to evaluate the care and condition of each item, placed into the context of program needs. When devices are shared over seasons, we also consider the number of users sharing a device. Historically PC's and peripheral have been used for up to 10 years. We are considering the future to be 5 to 7 years driven mostly by compatibility to network operating systems. We have printers that are from 1 to 18 years in service. We will continue to utilize a printer as long as it can be supported by operating systems, security, and supplies. We will match capacity needs to device type and look for opportunities to convert multiple devices to "all-in-ones" to eliminate individual faxes and scanners. Each proposed replacement device will be based on industry comparisons for functionality and capacity as well as compatibility with the existing machines to maintain the benefits of scale and volume for the service and supply purchases. We have small, medium and large printer devices ranging in price at \$250, \$500 and \$900.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
ADD HR Recruiting Laptop	900	0	900
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	10,000	0	10,000
Peripheral Specialty Printers, Scanners and Screens	16,500	0	16,500
Personal computers and software greatest need replacements	55,000	0	55,000
Printers greatest need replacements	4,600	0	4,600
Year Total	95,000	0	95,000
2021			
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	10,250	0	10,250

Peripheral Specialty Printers, Scanners and Screens	17,000	0	17,000
Personal computers and software greatest need replacements	57,000	0	57,000
Printers greatest need replacements	4,800	0	4,800
Year Total	97,050	0	97,050
2022			
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	10,500	0	10,500
Peripheral Specialty Printers, Scanners and Screens	17,500	0	17,500
Personal computers and software greatest need replacements	59,000	0	59,000
Printers greatest need replacements	5,000	0	5,000
Year Total	100,000	0	100,000
2023			
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	10,750	0	10,750
Peripheral Specialty Printers, Scanners and Screens	18,000	0	18,000
Personal computers and software greatest need replacements	61,000	0	61,000
Printers greatest need replacements	5,200	0	5,200
Year Total	102,950	0	102,950
2024			
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	11,000	0	11,000
Peripheral Specialty Printers, Scanners and Screens	18,500	0	18,500
Personal computers and software greatest need replacements	63,000	0	63,000
Printers greatest need replacements	5,400	0	5,400
Year Total	105,900	0	105,900
2025			
ADD HR Recruiting Laptop	1,100	0	1,100

Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	11,250	0	11,250
Peripheral Specialty Printers, Scanners and Screens	19,000	0	19,000
Personal computers and software greatest need replacements	65,000	0	65,000
Printers greatest need replacements	5,600	0	5,600
Year Total	109,950	0	109,950
2026			
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	11,500	0	11,500
Peripheral Specialty Printers, Scanners and Screens	19,500	0	19,500
Personal computers and software greatest need replacements	67,000	0	67,000
Printers greatest need replacements	5,800	0	5,800
Year Total	111,800	0	111,800
2027			
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	11,750	0	11,750
Peripheral Specialty Printers, Scanners and Screens	20,000	0	20,000
Personal computers and software greatest need replacements	69,000	0	69,000
Printers greatest need replacements	6,000	0	6,000
Year Total	114,750	0	114,750
2028			
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	12,000	0	12,000
Peripheral Specialty Printers, Scanners and Screens	20,500	0	20,500
Personal computers and software greatest need replacements	71,000	0	71,000
Printers greatest need replacements	6,200	0	6,200
Year Total	117,700	0	117,700

2029			
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	12,250	0	12,250
Peripheral Specialty Printers, Scanners and Screens	21,000	0	21,000
Personal computers and software greatest need replacements	73,000	0	73,000
Printers greatest need replacements	6,400	0	6,400
Year Total	120,650	0	120,650
2030			
ADD HR Recruiting Laptop	1,300	0	1,300
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	12,500	0	12,500
Peripheral Specialty Printers, Scanners and Screens	21,500	0	21,500
Personal computers and software greatest need replacements	75,000	0	75,000
Printers greatest need replacements	6,600	0	6,600
Year Total	124,900	0	124,900
2031			
Hard drives and other component replacements	8,000	0	8,000
Laptops greatest need replacements	12,750	0	12,750
Peripheral Specialty Printers, Scanners and Screens	22,000	0	22,000
Personal computers and software greatest need replacements	78,000	0	78,000
Printers greatest need replacements	6,800	0	6,800
Year Total	127,550	0	127,550
	1,328,200	0	1,328,200

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016			IT Technician	



Project Summary

Project Number:	1213CO1802
Title:	Microsoft Exchange Server
Project Type:	G - Equipment & Software
Division:	13 - Information Services
Budget Year:	2020
Finance Option:	
Asset Type:	CO - Computer Equipment
Active:	Yes

Project Description			
Project Internal Staff			
Information Technology Staff – installation & support + investigation of training options			
Project Justification			
<p>As of 2016, the primary version of Microsoft Office in use is 2007. The current offering from Microsoft is version 2016, which represents three iterations of upgrades. Several select District users have been upgraded to version 2013 and a few for 2016 for compatibility requirements for vendor supplied software. In order to remain progressive and compatible with vendor requirements and collaboration with other agencies and organizations, it is necessary to upgrade to a new version of Microsoft Office. For the same compatibility reason, we will update Exchange and SQL as well.</p> <p>Deployment services will be considered for the installation on over 200 PC's in the District.</p> <p>We are eligible for acquiring our licenses under a Government Purchasing Program. Microsoft is moving in the direction of subscription based licensing for Office. Benefits of subscription include: multiple device licenses per user, upgrades included as they are available, streaming installation, streaming/online versions. Based on the District's current 6+ year upgrade cycle and current subscription based pricing, standard licensing is more cost-effective. It is anticipated that subscription based licensing will remain the standard offering from Microsoft in the future. We will seek to utilize it to the extent available. There is also a Assurance Service which allows users access to the most recent version of a product throughout its life cycle. The District will look to use this service as a way to stay compatible for as long as possible.</p>			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Microsoft Exchange Server	28,600	0	28,600
Year Total	28,600	0	28,600
2026			
Microsoft Exchange Server	31,500	0	31,500
Year Total	31,500	0	31,500
	60,100	0	60,100
Year Identified	Start Date	Est. Completion Date	Manager
2019			Director of IT
			Project Partner



Project Summary

Project Number:	1213CO1803
Title:	Microsoft Office Licenses
Project Type:	G - Equipment & Software
Division:	13 - Information Services
Budget Year:	2020
Finance Option:	
Asset Type:	CO - Computer Equipment
Active:	Yes

Project Description				
Project Internal Staff				
Information Technology Staff – installation & support + investigation of training options				
Project Justification				
<p>As of 2016, the primary version of Microsoft Office in use is 2007. The current offering from Microsoft is version 2016, which represents three iterations of upgrades. Several select District users have been upgraded to version 2013 and a few for 2016 for compatibility requirements for vendor supplied software. In order to remain progressive and compatible with vendor requirements and collaboration with other agencies and organizations, it is necessary to upgrade to a new version of Microsoft Office. For the same compatibility reason, we will update Exchange and SQL as well.</p> <p>Deployment services will be considered for the installation on over 200 PC's in the District.</p> <p>We are eligible for acquiring our licenses under a Government Purchasing Program. Microsoft is moving in the direction of subscription based licensing for Office. Benefits of subscription include: multiple device licenses per user, upgrades included as they are available, streaming installation, streaming/online versions. Based on the District's current 6+ year upgrade cycle and current subscription based pricing, standard licensing is more cost-effective. It is anticipated that subscription based licensing will remain the standard offering from Microsoft in the future. We will seek to utilize it to the extent available. There is also a Assurance Service which allows users access to the most recent version of a product throughout its life cycle. The District will look to use this service as a way to stay compatible for as long as possible.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Microsoft Office Licenses	9,045	0	9,045	
Year Total	9,045	0	9,045	
2021				
Microsoft Office Licenses	9,300	0	9,300	
Year Total	9,300	0	9,300	
2022				
Microsoft Office Licenses	9,600	0	9,600	
Year Total	9,600	0	9,600	
2026				
Microsoft Office Licenses	10,500	0	10,500	
Year Total	10,500	0	10,500	
2027				
Microsoft Office Licenses	10,800	0	10,800	
Year Total	10,800	0	10,800	
2028				
Microsoft Office Licenses	11,100	0	11,100	
Year Total	11,100	0	11,100	
	60,345	0	60,345	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019			Director of IT	



Project Summary

Project Number:	1213CO1804
Title:	Windows Server Operating System
Project Type:	G - Equipment & Software
Division:	13 - Information Services
Budget Year:	2020
Finance Option:	
Asset Type:	CO - Computer Equipment
Active:	Yes

Project Description				
Project Internal Staff				
Information Technology Staff – installation & support + investigation of training options				
Project Justification				
<p>As of 2016, the primary version of Microsoft Office in use is 2007. The current offering from Microsoft is version 2016, which represents three iterations of upgrades. Several select District users have been upgraded to version 2013 and a few for 2016 for compatibility requirements for vendor supplied software. In order to remain progressive and compatible with vendor requirements and collaboration with other agencies and organizations, it is necessary to upgrade to a new version of Microsoft Office. For the same compatibility reason, we will update Exchange and SQL as well.</p> <p>Deployment services will be considered for the installation on over 200 PC's in the District.</p> <p>We are eligible for acquiring our licenses under a Government Purchasing Program. Microsoft is moving in the direction of subscription based licensing for Office. Benefits of subscription include: multiple device licenses per user, upgrades included as they are available, streaming installation, streaming/online versions. Based on the District's current 6+ year upgrade cycle and current subscription based pricing, standard licensing is more cost-effective. It is anticipated that subscription based licensing will remain the standard offering from Microsoft in the future. We will seek to utilize it to the extent available. There is also a Assurance Service which allows users access to the most recent version of a product throughout its life cycle. The District will look to use this service as a way to stay compatible for as long as possible.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Windows Server Operating System	14,000	0	14,000	
Year Total	14,000	0	14,000	
2021				
Windows Server Operating System	14,000	0	14,000	
Year Total	14,000	0	14,000	
2026				
Windows Server Operating System	16,500	0	16,500	
Year Total	16,500	0	16,500	
2027				
Windows Server Operating System	16,500	0	16,500	
Year Total	16,500	0	16,500	
	61,000	0	61,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019			Director of IT	



Project Summary

Project Number:	1213LV1721
Title:	IS&T Pick-up Truck and Cargo Unit
Project Type:	F - Rolling Stock
Division:	13 - Information Services
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description					
This project covers the replacement of IS&T Pick-up Truck. This vehicle provides capabilities to meet off-season service trips to Snow Flake Lodge for radio and wireless service. The current pick-up (Unit #467) a 1/2 ton pickup was transferred from the Treatment Division at Utilities and has a cargo unit that can handle quantities of cable and ladders. The cargo unit can be moved from truck to truck as it's service life exceeds that of the second assignment vehicles which will meet the needs of this application.					
Project Internal Staff					
Fleet and IS&T will collaborate in the procurement and set-up of this vehicle.					
Project Justification					
The scheduled replacement of this vehicle normally would be subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Given the needs for an ability to navigate more difficult terrain, this replacement is designed to utilize a second assignment vehicle transferred from Utilities. Depending on condition, the cargo unit will transferred to the new vehicle.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2023					
Second Assignment Vehicle and Cargo Unit	12,000	0	12,000		
Year Total	12,000	0	12,000		
	12,000	0	12,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Jul 1, 2012	Jul 1, 2013	Fleet Superintendent		



Project Summary

Project Number:	1099BD1501
Title:	Admin Roof Replacement
Project Type:	E - Capital Maintenance
Division:	99 - Gen Admin - General Gov.
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description	<p>Various areas of the Admin Building roof are beginning to show wear especially along the peak and some shaded south facing slopes that traditionally hold snow. Shingles and membrane have been replaced in several areas. This project has been deferred several years pending the replacement of the Facility.</p>
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Project Internal Staff	<p>Buildings Staff will supervise and inspect project.</p>
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Project Justification	<p>The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Administration Building asset and customer service.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Construction	70,000	0	70,000
Contingency	10,000	0	10,000
Internal Services	5,000	0	5,000
Year Total	85,000	0	85,000
	85,000	0	85,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2020	Aug 1, 2020	Buildings Superintendent	



Project Summary

Project Number:	1099BD1502
Title:	Upgrade Public Bathrooms at Administration for ADA Compliance
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - Gen Admin - General Gov.
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description					
The publicly accessible bathrooms in the Administration Building are currently not ADA compliant. Bringing them up to code would require the hallway entrance to the bathrooms as well as the hallway be widened. Both bathroom doors and frames would also need to be replaced to meet present codes. Counter tops, sink hardware, toilets and urinals all would be upgraded and moved. The two existing stalls in the women's bathroom would be remodeled to become a single stall enclosure. The men's bathroom back wall would have to be demoed, reconfigured and moved into the kitchen to gain the extra space that codes require, additionally it would necessitate the re-plumbing and rewiring of the kitchen.					
Project Internal Staff					
Buildings Staff will supervise and inspect					
Project Justification					
This project is to remodel the existing public bathroom facilities at Administration and upgrade them to meet Federal ADA regulations. This project will only be completed should the District continue to postpone a Replacement Administration Building Project.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2022					
Construction	54,500	0	54,500		
Contingency	7,500	0	7,500		
Design & Engineering	8,500	0	8,500		
Internal Services	3,400	0	3,400		
Permitting	1,100	0	1,100		
Year Total	75,000	0	75,000		
	75,000	0	75,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Oct 1, 2021	Feb 1, 2022	Buildings Superintendent		



Project Summary

Project Number:	1099BD1701
Title:	Administration Services Building
Project Type:	B - Major Projects - Existing Facilities
Division:	99 - Gen Admin - General Gov.
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
The District Administration Services Building houses the Board of Trustees and the Clerk to the Board, the General Manager, Human Resources, Finance and Accounting, Risk Management, Information Technology, as well as provides community support. Community activities include Board meetings and workshops, public hearings and events, plus promoting community organization and supporting health and wellness. Private groups occasionally use facilities for HOA meetings, etc.				
Project Internal Staff				
This project has been managed by the members of the Capital Projects Committee. It is in response to operational needs and opportunities to coordinate the solution with other plans and projects. The Engineering Manager will continue to take the lead on scoping the project, while the Director of Finance will work on the possibilities or forms of financing and other alternative solutions such as leasing or buying an existing facility.				
Project Justification				
The current Administrative Services Building is one of the original structures built by the District. It is over 50 years old. The configuration over the years have changed and many spaces are not a good match to the operational needs of the departments housed in the building. In particular the computer server room does not have the proper conditions for operating and securing the substantial investment for needed for District electronics. The Americans with Disabilities Act audit concluded the facility does not meet current requirement for either the public or employees. A replacement is the only reasonable planned action.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2023				
Design	125,000	0	125,000	
Internal Services	25,000	0	25,000	
Year Total	150,000	0	150,000	
2024				
Construction	3,200,000	0	3,200,000	
Year Total	3,200,000	0	3,200,000	
	3,350,000	0	3,350,000	
Year Identified	Start Date	Est. Completion Date	Manager	
2013	Jul 1, 2022	Jun 30, 2024	Engineering Manager	
			Project Partner	



Project Summary

Project Number:	1099LI1705
Title:	Pavement Maintenance - Administration Building
Project Type:	E - Capital Maintenance
Division:	99 - Gen Admin - General Gov.
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description				
Continued maintenance and repair of the Administration Building Parking Lot. This area includes approximately 33,000 sf of pavement. Engineering maintains a database of this and other facilities for pavement conditions, past projects and forecasts long-term maintenance and replacement needs.				
Project Internal Staff				
Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.				
Project Justification				
Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerates deterioration. The Administration Building parking lot is past its expected life and is showing signs of pavement failure. Due to the uncertainty of the future of the Administration Building only minimal repairs are budgeted for safety purposes. Due the poor condition frequent repairs are anticipated. Repairs have been needed annually since 2015 mainly due to winter damage.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Safety Repairs	5,000	0	5,000	
Year Total	5,000	0	5,000	
2021				
Safety Repairs	5,000	0	5,000	
Year Total	5,000	0	5,000	
2022				
Safety Repairs	5,000	0	5,000	
Year Total	5,000	0	5,000	
2023				
Safety Repairs	5,000	0	5,000	
Year Total	5,000	0	5,000	
2024				
Safety Repairs	5,000	0	5,000	
Year Total	5,000	0	5,000	
2025				
Safety Repairs	5,000	0	5,000	
Year Total	5,000	0	5,000	
2026				
Safety Repairs	5,000	0	5,000	
Year Total	5,000	0	5,000	
2027				
Safety Repairs	5,000	0	5,000	
Year Total	5,000	0	5,000	
	40,000	0	40,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	Jul 1, 2019	Jun 30, 2020	Senior Engineer	



Project Summary

Project Number:	1099OE1401
Title:	Admin Printer Copier Replacement - 893 Southwood Administration Building
Project Type:	G - Equipment & Software
Division:	99 - Gen Admin - General Gov.
Budget Year:	2020
Finance Option:	
Asset Type:	OE - Office Equipment
Active:	Yes

Project Description				
Replacement of the large color/black copier located at IVGID's Administration Building. It provides processing for all Executive and Board of Trustees items. It is used for color copying for Community Communications, HR and Accounting. It provides color copying for other venues that do not have this capacity. This copier should be replaced every four to five years which is the industry standard. On average the cost of ownership increases after the fifth year as a result of increased maintenance fees. This CIP is for the cost of the copier only and does not include monthly maintenance charges, which is part of the District's comprehensive maintenance plan.				
Project Internal Staff				
The District Executive Assistant oversees the purchase and routine maintenance for this copier/printer. IT manages the District contract maintenance program.				
Project Justification				
The current volume copied/printed on this device averages around 40,000 a month with most of the volume being for Board of Trustees agendas and minutes. The Xerox WorkCentre was replaced in fiscal year 2017-2018. Life cycle is 2,000,000 images. The current Xerox C70 was put into service December 2017. Proposed new copier- will be based on industry comparisons for functionality and capacity considering the best pricing we can get from state and local contracts.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
	32,500	0	32,500	
Year Total	32,500	0	32,500	
2027				
	35,000	0	35,000	
Year Total	35,000	0	35,000	
2032				
	37,500	0	37,500	
Year Total	37,500	0	37,500	
2037				
	40,000	0	40,000	
Year Total	40,000	0	40,000	
2042				
	42,500	0	42,500	
Year Total	42,500	0	42,500	
	187,500	0	187,500	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2022	Jul 31, 2022	District Clerk	



Project Summary

Project Number:	1315CO1801
Title:	Human Resource Management and Payroll Processing Software
Project Type:	G - Equipment & Software
Division:	15 - Human Resources
Budget Year:	2020
Finance Option:	
Asset Type:	CO - Computer Equipment
Active:	Yes

Project Description				
The District needs a comprehensive system for information management and processing for Human Resources and payroll processing. Hiring and paying staff is a voluminous and detailed process layered with multiple issue of Federal, State and District compliance. The only acceptable way to efficiently and effectively manage these process is a computerized system. This project will evaluate the current industry trends and capabilities to achieve good practices and processes for managing personnel data, time keeping, and payroll accounting for the District's 900 plus annual staffing.				
Project Internal Staff				
Human Resources would be the lead department, assisted by IT and the staff in Finance and Accounting to work with the selected vendor to provide implementation and orientation to the new system.				
Project Justification				
The current system for accumulation time records and processing payroll was acquired with the accounting system in 2010. At that time, the vendor stated an intention to issue a substantial update in the next two years. The accounting side of that update occurred in 2014 with the implementation of Innoprise. The integration of the old payroll system and the new accounting system was accomplished as part of that change. The second portion of the conversion was to include a payroll management component in the next year. That update has not been timely in its development. The needs for HR information management and payroll processing have grown. The current project seeks to find a replacement system that will address the most needs possible while still integrating to the current accounting system and operating methods.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Contingency for installation	20,000	0	20,000	
Software licensing and Implementation	160,000	0	160,000	
Year Total	180,000	0	180,000	
	180,000	0	180,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2015	Jul 1, 2018	Jun 30, 2020	Director of Human Resources	



5 Year Capital Improvement Plan Summary - As of 5.22.19

Utilities

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
Utilities									
Public Works Shared	2097BD1202	Paint Interior Building #A	Buildings Superintendent	-	-	-	49,000	-	49,000
	2097BD1204	New Carpet Building #A	Buildings Superintendent	-	47,000	-	-	-	47,000
	2097BD1704	Replace Roof Public Works #B	Buildings Superintendent	-	-	105,000	-	-	105,000
	2097BD1802	Household Hazardous Waste Building Improvements	Principal Engineer	15,000	150,000	-	-	-	165,000
	2097CO2101	Public Works Billing Software Replacement	Public Works Administrative Manager	-	10,000	100,000	100,000	50,000	260,000
	2097DI1401	Adjust Utility Facilities in NDOT/Washoe County Right of Way	Senior Engineer	60,000	60,000	60,000	60,000	60,000	300,000
	2097HE1725	Loader Tire Chains	Fleet Superintendent	-	-	9,900	9,900	-	19,800
	2097HE1729	2002 Caterpillar 950G Loader #523	Fleet Superintendent	-	-	265,000	-	-	265,000
	2097HE1730	2002 Caterpillar 950G Loader #525	Fleet Superintendent	-	-	-	265,000	-	265,000
	2097HE1750	1997 Forklift #315	Fleet Superintendent	-	-	-	-	36,000	36,000
	2097HE1751	2013 Trackless Snowblower #687	Fleet Superintendent	-	-	-	165,000	-	165,000
	2097HE1752	2001 105KW Mobile Generator #313	Fleet Superintendent	-	-	-	50,000	-	50,000
	2097HV1754	1996 Peterbilt Dump Truck #299	Fleet Superintendent	75,000	-	-	-	-	75,000
	2097HV1755	2001 Peterbilt Bin Truck #468	Fleet Superintendent	-	-	190,000	-	-	190,000
	2097LE1720	Snowplow #300A	Fleet Superintendent	-	-	18,000	-	-	18,000
	2097LE1721	Snowplow #307A	Fleet Superintendent	-	-	-	18,000	-	18,000
	2097LE1722	Slurry Liquidator #326	Fleet Superintendent	-	-	41,000	-	-	41,000
	2097LE1723	2004 9' Western Snow Plow #542A	Fleet Superintendent	9,000	-	-	-	-	9,000
	2097LE1724	2015 Sander/Spreader #710	Fleet Superintendent	20,000	-	-	-	-	20,000
	2097LI1401	Pavement Maintenance, Utility Facilities	Senior Engineer	45,000	299,000	12,500	12,500	12,500	381,500
	2097LI1701	Pavement Maintenance, Reservoir 3-1 WPS 4-2/5-1	Senior Engineer	-	10,000	165,000	-	-	175,000
	2097LV1710	2013 Chevy Equinox	Fleet Superintendent	-	-	-	-	37,000	37,000
	2097LV1734	2013 1/2 Ton Pick-Up #677 Treatment	Fleet Superintendent	-	-	-	-	37,000	37,000
	2097LV1738	2009 Chevrolet 1/2 Ton Pick-up Truck #631	Fleet Superintendent	-	-	30,000	-	-	30,000
	2097LV1739	2009 Chevrolet 1/2 Ton Pick-up Truck #632 Engineering Dept.	Fleet Superintendent	-	-	32,000	-	-	32,000
	2097LV1740	2012 Extend-A-Cab Pick-up #678 Pipeline Dept.	Fleet Superintendent	-	-	-	32,000	-	32,000
	2097LV1743	2013 1-Ton Flatbed #679 Pipeline Dept.	Fleet Superintendent	-	-	-	-	44,000	44,000
	2097LV1744	2012 1-Ton Service Truck w/ Liftgate #668 Treatment	Fleet Superintendent	-	-	-	43,000	-	43,000
	2097LV1745	2013 1-Ton Service Truck #680 Utilities Electrician	Fleet Superintendent	-	-	-	-	44,000	44,000
	2097LV1746	2004 GMC 1-Ton Flatbed #542 Pipeline Dept.	Fleet Superintendent	48,000	-	-	-	-	48,000
	2097LV1747	2008 Chevrolet Service Truck #609 Meter Truck	Fleet Superintendent	36,000	-	-	-	-	36,000
	2097LV1749	2011 Chevrolet Service Truck #647 Treatment	Fleet Superintendent	-	45,000	-	-	-	45,000
	2097OE1205	Large Format Printer Replacement	Public Works Contract Administrator	-	-	-	-	29,000	29,000
	Total			308,000	621,000	1,028,400	804,400	349,500	3,111,300
Water	2299DI1102	Water Pumping Station Improvements	Principal Engineer	45,000	50,000	50,000	50,000	50,000	245,000
	2299DI1103	Replace Commercial Water Meters, Vaults and Lids	Collection/Distribution Supervisor	20,000	40,000	40,000	40,000	40,000	180,000
	2299DI1204	Water Reservoir Coatings and Site Improvements	Utility Maintenance Specialist	85,000	85,000	85,000	60,000	80,000	395,000
	2299DI1401	Burnt Cedar Water Disinfection Plant Improvements	Engineering Manager	50,000	55,000	25,000	25,000	25,000	180,000
	2299DI1701	Water Reservoir Safety and Security Improvements	Engineering Manager	10,000	250,000	-	-	-	260,000
	2299DI1702	Water Pump Station 2-1 Improvements	Engineering Manager	-	-	-	300,000	-	300,000



5 Year Capital Improvement Plan Summary - As of 5.22.19

Utilities

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
	2299DI1707	Burnt Cedar Water Disinfection Plant Emergency Generator Fuel Tank Upgrades	Engineering Manager	200,000	-	-	-	-	200,000
	2299DI2603	Residential meter and electronics replacement	Collection/Distribution Supervisor	-	-	-	-	150,000	150,000
	2299LV1720	2013 Mid Size Truck #675 Compliance	Fleet Superintendent	-	-	31,000	-	-	31,000
	2299WS1704	Watermain Replacement - Martis Peak Road	Senior Engineer	50,000	625,000	-	-	-	675,000
	2299WS1705	Watermain Replacement - Crystal Peak Road	Senior Engineer	-	-	50,000	845,000	-	895,000
	2299WS1706	Watermain Replacement - Rifle Pk Ct, Slott Pk Ct	Senior Engineer	-	50,000	325,000	-	-	375,000
	2299WS1802	Watermain Replacement - Alder Avenue	Senior Engineer	-	-	-	-	535,000	535,000
	2299WS1803	Watermain Replacement - Future	Senior Engineer	-	-	-	-	50,000	50,000
	2299WS1804	R6-1 Tank Road Construction	Senior Engineer	-	15,000	110,000	-	-	125,000
	Total			460,000	1,170,000	716,000	1,320,000	930,000	4,596,000
Sewer	2523HE1723	2001 Sellick Forklift #499	Fleet Superintendent	-	-	-	-	65,000	65,000
	2523HV1721	2006 Kenworth T800 Bin truck #587	Fleet Superintendent	-	-	197,200	-	-	197,200
	2524HE1725	2008 Chevrolet Camera Truck #615	Fleet Superintendent	-	-	-	-	85,000	85,000
	2524SS1010	Effluent Export Project - Phase II	Engineering Manager	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	10,000,000
	2599BD1105	Building Upgrades Water Resource Recovery Facility	Utility Superintendent	10,000	80,000	40,000	30,000	50,000	210,000
	2599DI1104	Sewer Pumping Station Improvements	Engineering Manager	15,000	60,000	30,000	30,000	50,000	185,000
	2599DI1701	Sewer Pumping Station 14 Improvements	Engineering Manager	-	-	-	-	30,000	30,000
	2599DI1703	Sewer Pump Station #1 Improvements	Principal Engineer	250,000	-	-	-	-	250,000
	2599SS1102	Water Resource Recovery Facility Improvements	Utility Superintendent	100,000	75,000	75,000	100,000	175,000	525,000
	2599SS1103	Wetlands Effluent Disposal Facility Improvements	Utility Maintenance Specialist	10,000	75,000	100,000	100,000	100,000	385,000
	2599SS1203	Replace & Reline Sewer Mains, Manholes and Appurtenances	Senior Engineer	10,000	55,000	110,000	55,000	105,000	335,000
	2599SS1702	WRRF Biosolids Bins	Utility Superintendent	-	-	-	-	45,000	45,000
	2599SS1707	WRRF Aeration System Improvements	Engineering Manager	1,200,000	-	-	-	-	1,200,000
	2599SS1901	Wastewater Resource Recovery Facility (WRRF) Drainage Improvements	Senior Engineer	-	12,500	-	-	-	12,500
	2599SS2107	Update Camera Equipment	Collection/Distribution Supervisor	-	60,000	-	-	-	60,000
	Total			3,595,000	2,417,500	2,552,200	2,315,000	2,705,000	13,584,700
		Total Utilities		4,363,000	4,208,500	4,296,600	4,439,400	3,984,500	21,292,000



Project Summary

Project Number: 2097BD1202
Title: Paint Interior Building #A
Project Type: E - Capital Maintenance
Division: 97 - Public Works Shared
Budget Year: 2020
Finance Option:
Asset Type: BD - Buildings & Structures
Active: Yes

Project Description				
This project is the periodic painting at the Public Works Facility Building A. Touch up paint and repairs have been made to the interior walls of the Buildings to maintain the general appearance of the Facility. However, as more touch up is completed different shades of the same paint become visible due to age of the existing paint. A full interior painting is necessary for this building that sees heavy usage on all the floors. This project is on a 7-year cycle.				
Project Internal Staff				
Buildings Staff will supervise and inspect project				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Public Works asset and support customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2023				
Contingency	4,000	0	4,000	
Internal Services	4,000	0	4,000	
Painting	41,000	0	41,000	
Year Total	49,000	0	49,000	
2030				
Contingency	6,200	0	6,200	
Internal Services	1,000	0	1,000	
Painting	49,000	0	49,000	
Year Total	56,200	0	56,200	
	105,200	0	105,200	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2022	May 31, 2023	Buildings Superintendent	



Project Summary

Project Number:	2097BD1204
Title:	New Carpet Building #A
Project Type:	E - Capital Maintenance
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
This project is the periodic carpet replacement in Public Works Building A. The normal life cycle for a high use venue is 5-8 years. The carpets is maintained on a regular basis which extends the life but wear spots as well as stains and permanent damage eventually necessitates replacement.				
Project Internal Staff				
Staff will supervise and inspect project. Staff will assist contractor in moving furniture to facilitate a smooth installation.				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Public Works Building A asset and meet customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Carpet	41,000	0	41,000	
Contingency	4,700	0	4,700	
Internal Services	1,300	0	1,300	
Year Total	47,000	0	47,000	
2028				
Carpet	43,200	0	43,200	
Contingency	5,300	0	5,300	
Internal Services	620	0	620	
Year Total	49,120	0	49,120	
	96,120	0	96,120	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2020	Jun 30, 2021	Buildings Superintendent	



Project Summary

Project Number:	2097BD1704
Title:	Replace Roof Public Works #B
Project Type:	E - Capital Maintenance
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description			
Replace roof on Public Works Building B			
Project Internal Staff			
Staff will contract out the design, removal and construction of the replacement roof. Staff will inspect during the construction phase.			
Project Justification			
The roof on Building B has been patched and leaks and has been repaired numerous times over the past several years. The roof is approximately twenty five years old and is reaching its anticipated life expectancy. A new roof will extend the useful life of the building.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Contingency	9,000	0	9,000
Internal Sevices	6,000	0	6,000
Replace Roof PW #B	90,000	0	90,000
Year Total	105,000	0	105,000
	105,000	0	105,000
Year Identified	Start Date	Est. Completion Date	Manager
2017	Jul 1, 2021	Jun 30, 2022	Buildings Superintendent
			Project Partner



Project Summary

Project Number:	2097BD1802
Title:	Household Hazardous Waste Building Improvements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Replacement of substandard 20-year-old existing facility with designated hazardous waste pre-fabricated building. It may include moving the existing structure to a new location at public works. Enhance safety features would include power, fire suppression, lighting, hardwired ventilation, possibly water and other.				
Project Internal Staff				
Engineering Division with support from Waste Not Staff				
Project Justification				
The Resource Conservation and Recovery Act (RCRA) is the public law that creates the framework for the proper management of hazardous and non-hazardous solid waste.				
IVGID Public Works' Waste Not Program runs a 1) Household Hazardous Waste (HHW) RCRA Subtitle C permit exempt program for community hazardous waste materials, and 2) a RCRA Subtitle C Small Quantity generator program for District waste.				
The current structures(s) were not designed for chemical storage use. The 20' x 8' HHW community trailer was adapted for use from a leftover mobile storage container. It has seen 20 years of service and is in need of standard safety upgrades.				
The District hazardous waste is stored in a new, mobile container, not designed for chemical storage. There is no electricity to the containers. There is no fire suppression in the containers. The solar ventilation that has been added to the larger, older container is inadequate for continuous ventilation. Roof leaks are appearing creating icy and wet conditions inside the larger container. The current larger unit is inadequate in size for the material collected each month. Battery storage needs location and safety improvements. In the past 10 years there have been 2 incidents of potential fire from battery storage issues. Replacement with a properly sized container specifically designed for chemical storage will improve environmental safety for site and staff.				
District waste can be commingled into the community waste with designated labeling. The project idea is to purchase a 30' x 8' designated chemical storage pre-fabricated building. Designated metal cabinetry would be used inside the building for improved sorting/ storage over current drum storage. The newer 10'x8' District waste storage container would be reconfigured with shelving for collection of latex paint and oil based paints, only.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Design	15,000	0	15,000	
Year Total	15,000	0	15,000	
2021				
Construction	150,000	0	150,000	
Year Total	150,000	0	150,000	
	165,000	0	165,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2018	Jul 1, 2019	Jun 30, 2021	Principal Engineer	



Project Summary

Project Number:	2097CO2101
Title:	Public Works Billing Software Replacement
Project Type:	G - Equipment & Software
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	CO - Computer Equipment
Active:	Yes

Project Description

The District has used Data West billing software to bill 4,200 utility accounts since 1993. This software is mission critical for billing and customer service in Public Works. This project is for the scheduled replacement of the Public Works billing software. The billing software is used as a customer service interface for billing, backflow and meter reading information. It also provides online customer access to account information and enables ebill/epay functionality for customers. Customer information is also linked to the GIS system so data can be viewed by District staff in the field.

Billing, Online Account Access and GIS software upgrades will need to include customization of reporting and automated processes, integration with meter reading software, integration with electronic deposit software, integration with statement processing, integration with GIS, integration with the asset management system, integration with District accounting system, and hiring temporary staff to assist with transition.

Project Internal Staff

Public Works Administrative Manager

Project Justification

The contract for the current billing system, BillMaster 6, has been in place since December 2002. The contract for WebShare (A.K.A. Online Account Access) has been in place since September 2013 and GIS services since October 2013. The contracts for each of these systems include a SystemCare maintenance agreement to keep up with changes in software functionality, but the software will need replacement to keep up with technology changes in the customer service and billing software functionality. Changes in meter technology could necessitate a change in billing software. It is expected that a full version software upgrade to Billmaster (date unknown) will require a capital outlay. This software will be moved in the CIP budget if indicators warrant change in the replacement schedule.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Public Works Billing Software	10,000	0	10,000
Year Total	10,000	0	10,000
2022			
Public Works Billing Software	100,000	0	100,000
Year Total	100,000	0	100,000
2023			
Public Works Billing Software	100,000	0	100,000
Year Total	100,000	0	100,000
2024			
Public Works Billing Software	50,000	0	50,000
Year Total	50,000	0	50,000
	260,000	0	260,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
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2016	Jul 1, 2020	Jun 30, 2024	Public Works Administrative Manager	
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Project Summary

Project Number:	2097DI1401
Title:	Adjust Utility Facilities in NDOT/Washoe County Right of Way
Project Type:	E - Capital Maintenance
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description

Adjust manholes and valve box covers in public streets in conjunction with Washoe County, RTC and Nevada Department of Transportation (NDOT) projects, including Environmental Improvement Projects (EIP). The scope of annual projects are not known until spring of each year and is based on the Washoe County Public Works, RTC and NDOT preliminary estimates of work. In addition to the valves and manholes within Washoe County's project limits, IVGID will adjust some of the miscellaneous valves and manholes that are out of specifications if discovered. On occasion, NDOT and County projects can require utility relocation of a scope beyond simply adjusting manholes and valve box covers. The budget provided in this data sheet will also be utilized to cover the design costs associated with utility relocation on such projects.

Project Internal Staff

Engineering will do the contract administration, bidding, and inspection. Work is done by outside contractors.

Project Justification

As a requirement of our use of public rights-of-way for Utility improvements the District must adjust our structures to comply with the requirements of public infrastructure projects. Washoe County's CIP includes money for road and EIP work in Incline Village and Crystal Bay generally every year. In May 2020 Washoe Co. is expected to begin work on their Lower Wood Creek EIP likely affecting IVGID utilities. In prior years, the District has spent between \$30,000 and \$70,000 each year to complete this work. Certain projects can include complete relocation of sewer and water mains to avoid conflict with the infrastructure to be installed by the County or NDOT.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2021			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2022			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000

2023			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2024			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2025			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2026			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2027			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2028			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2029			
Internal Services	10,000	0	10,000
NDOT projects	100,000	0	100,000
Raise Manholes & Valve Boxes	5,000	0	5,000
Washoe County projects	100,000	0	100,000
Year Total	215,000	0	215,000
2030			
Internal Services	10,000	0	10,000

Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2031			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2032			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2033			
Internal Services	10,000	0	10,000
Raise Manholes & Valve Boxes	15,000	0	15,000
Washoe County projects	35,000	0	35,000
Year Total	60,000	0	60,000
2034			
Internal Services	10,000	0	10,000
Washoe County projects	50,000	0	50,000
Year Total	60,000	0	60,000
2035			
Internal Services	10,000	0	10,000
Washoe County projects	50,000	0	50,000
Year Total	60,000	0	60,000
2036			
Internal Services	10,000	0	10,000
Washoe County projects	50,000	0	50,000
Year Total	60,000	0	60,000
	1,175,000	0	1,175,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Senior Engineer	



Project Summary

Project Number:	2097HE1725
Title:	Loader Tire Chains
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description		2-sets of loader tire chains, utilized by the Public Works Cat 950G wheel loaders (#523, #525). These chains are necessary for the safe operation of the loaders during the winter snow removal season. These chains are on a 4-year replacement schedule.		
Project Internal Staff		Fleet Maintenance Staff		
Project Justification		These chains are necessary for the safe operation of the loaders during the winter snow removal season.		
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Loader Tire Chains (3-Sets)	9,900	0	9,900	
Year Total	9,900	0	9,900	
2023				
Loader Tire Chains (3-Sets)	9,900	0	9,900	
Year Total	9,900	0	9,900	
2026				
Loader Tire Chains (3-Sets)	20,700	0	20,700	
Year Total	20,700	0	20,700	
2030				
Loader Tire Chains (3-Sets)	21,600	0	21,600	
Year Total	21,600	0	21,600	
	62,100	0	62,100	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Jun 30, 2023	Fleet Superintendent	



Project Summary

Project Number:	2097HE1729
Title:	2002 Caterpillar 950G Loader #523
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description	This project is for the scheduled replacement of the Utility Division Cat 950G wheel loader. This loader is on a 13-year replacement cycle subject to equipment operating hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. The loader will be moved back in the CIP replacement program if indicators reveal no increased equipment down time or elevated maintenance cost will result by deferring the replacement date.
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Project Internal Staff	
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Project Justification	This loader, with snow plow, is critical to the winter operation of the Public Works Department for snow removal at all water reservoirs, sewer and water pump stations, Ski Resort, Recreation Center, Chateau and all golf facilities to protect revenue and provide safe access for customers, residents and staff. Additionally both Pipeline and Treatment Plants staff utilize this loader for summer maintenance and repairs required on the water distribution and waste water collection systems and the wetlands facility, for road and dike maintenance and repair.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Caterpillar Loader	265,000	0	265,000
Year Total	265,000	0	265,000
	265,000	0	265,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Jun 30, 2022	Fleet Superintendent	Municipal Lease Eligible



Project Summary

Project Number:	2097HE1730
Title:	2002 Caterpillar 950G Loader #525
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description	This project is for the scheduled replacement of the Utility Division Cat 950G wheel loader. This loader is on a 13-year replacement cycle subject to equipment operating hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. The loader will be moved back in the CIP replacement program if indicators reveal no increased equipment down time or elevated maintenance cost will result by deferring the replacement date.
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Project Internal Staff	
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Project Justification	This loader, with snow plow, is critical to the winter operation of the Public Works Department for snow removal at all water reservoirs, sewer and water pump stations, Ski Resort, Recreation Center, Chateau and all golf facilities to protect revenue and provide safe access for customers, residents and staff. Additionally both Pipeline and Treatment Plants staff utilize this loader for summer maintenance and repairs required on the water distribution and waste water collection systems and the wetlands facility, for road and dike maintenance and repair.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
2002 Caterpillar 950G Loader	265,000	0	265,000
Year Total	265,000	0	265,000
	265,000	0	265,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Jul 1, 2023	Sep 30, 2023	Fleet Superintendent	Municipal Lease Eligible



Project Summary

Project Number:	2097HE1750
Title:	1997 Forklift #315
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description	<p>Replace forklift #315, utilized in the warehouse of the Public Works Department. This equipment may also be transported to other venues for unloading materials and supplies. Presently it is on a 15-year replacement program. Equipment replacement purchases will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.</p>
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Project Internal Staff	
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Project Justification	<p>This forklift is vital to the daily operation of the Public Works warehouse for unloading delivery trucks and loading IVGID trucks for transport of materials and supplies. This is the only equipment capable of maneuvering heavy loads in the tight space available in the warehouse. The scheduled replacement of this equipment is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Forklift will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
Forklift #315	36,000	0	36,000
Year Total	36,000	0	36,000
	36,000	0	36,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2023	Feb 1, 2024	Fleet Superintendent	



Project Summary

Project Number:	2097HE1751
Title:	2013 Trackless Snowblower #687
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description				
Scheduled replacement of IVGID Public Works snow blower #552, by the Fleet Division. This equipment is necessary for blowing large accumulations of snow where smaller equipment is not able to handle the job. Specifically utilized to widen parking lots for increased parking capacity, roadways for safer operation and keeping water reservoir roads and sewer and water pump stations open for maintenance and repairs. Presently this is the only equipment the District owns that is able to access the tight areas, for snow removal, around the Chateau entrance. This snow blower is on a 8-year replacement schedule subject to accumulated hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Equipment will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates				
Project Internal Staff				
Project Justification				
This is a vital piece of equipment for opening and maintaining roads and parking areas during and after large snow storms. The faster speed of this equipment type enables staff to access more areas in a shorter period of time, essential during heavy snow storms. Snow blowers are subject to extreme conditions and high stress loads during the entire time it's operated. This is a high maintenance piece of equipment, under constant repair throughout the season due to extreme vibration and frame stress cracks. It is essential to replace this equipment before major component failure, where repair costs may exceed the equipment value. The snow blower is on a 8-year replacement schedule, subject to accumulated hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Equipment will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2023				
2004 Trackless Snowblower	165,000	0	165,000	
Year Total	165,000	0	165,000	
2029				
2004 Trackless Snowblower	185,000	0	185,000	
Year Total	185,000	0	185,000	
	350,000	0	350,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2022	Jun 30, 2023	Fleet Superintendent	



Project Summary

Project Number:	2097HE1752
Title:	2001 105KW Mobile Generator #313
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description					
<p>This emergency standby generator set, utilized by the Treatment Plant in case of extended power outages, supplies electricity to the larger water pump stations that don't have a permanent generator set located on site. Additionally this unit is utilized by the Lower Sweetwater shop for emergency standby power for maintaining the Public Works building requirements and to power the fuel pumps. Although this equipment is necessary to meet regulatory requirements it is seldom used. Typically the only usage of this equipment is by Fleet staff at normal scheduled maintenance intervals to insure proper operation. Due to low usage and the guarantee of parts availability for an extended period of time this unit is not currently budgeted for replacement. Life expectancy is 20-years from date of purchase, but will be moved back in the CIP when indicators dictate.</p>					
Project Internal Staff					
Project Justification					
See note above					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2023	50,000	0	50,000		
Year Total	50,000	0	50,000		
	50,000	0	50,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Jul 1, 2022	Jun 30, 2023	Fleet Superintendent		



Project Summary

Project Number: 2097HV1754
Title: 1996 Peterbilt Dump Truck #299
Project Type: F - Rolling Stock
Division: 97 - Public Works Shared
Budget Year: 2020
Finance Option:
Asset Type: HV - Heavy Duty Vehicles
Active: Yes

Project Description

This is the scheduled replacement of #299, Peterbilt dump truck, utilized by the Utility Pipeline Division for hauling materials to and from water and sewer leak repairs, hauling waste materials out of the Tahoe basin and clean fill materials from the valley to the Sweetwater facility. This truck is also utilized in the maintenance of roads and dike repairs at the IVGID wetland area. Presently this dump truck is on a 15-year replacement program. This dump truck will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.

Project Internal Staff

Fleet Maintenance Staff will manage this project

Project Justification

This vehicle is critical to the daily operation of the Utility Pipeline Division for water and sewer line leak repairs. The smaller size of this truck allows access to District areas that are too tight for other equipment to operate. The present replacement date, of 15-years, has been moved back to 20-years due to the trucks low mileage and overall good condition. The replacement of this truck is subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. #299 will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.

Forecast

Budget Year	Total Expense	Total Revenue	Difference
2020			
Dump Truck	75,000	0	75,000
Year Total	75,000	0	75,000
2033			
Dump Truck	176,000	0	176,000
Year Total	176,000	0	176,000
	251,000	0	251,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Feb 29, 2020	Fleet Superintendent	



Project Summary

Project Number:	2097HV1755
Title:	2001 Peterbilt Bin Truck #468
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	HV - Heavy Duty Vehicles
Active:	Yes

Project Description	This project is for the scheduled replacement of vehicles, by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	This is the scheduled replacement of #468, Peterbilt dump truck, utilized by the Utility Division for hauling materials to and from water and sewer leak repairs, hauling waste materials out of the Tahoe basin and clean fill materials from the valley to the Sweetwater facility. This truck is also utilized in the maintenance of roads and dike repairs at the IVGID wetlands facility. Additionally utilized as a back-up vehicle for hauling treated sludge from the Waste Water Treatment Plant to the Bentley facility in Minden Nevada. This vehicle is critical to the daily operation of the Utility Division and will be 20-years old at its present scheduled replacement date. The replacement of this truck is subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Dump Truck	190,000	0	190,000	
Year Total	190,000	0	190,000	
2031				
Dump Truck	185,000	0	185,000	
Year Total	185,000	0	185,000	
	375,000	0	375,000	

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Jun 30, 2022	Fleet Superintendent	



Project Summary

Project Number:	2097LE1720
Title:	Snowplow #300A
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>Purchase replacement snow plow utilized in conjunction with Utility Division loaders for winter snow removal requirements around the entire District. The areas include Diamond Peak parking lots, Skiway, Recreation Center, Administration, Public Works facilities, Water and Sewer pump stations, water reservoir roads and etc. Loader snow plows are on a 10-year replacement schedule subject to overall condition. The plow will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring the replacement date.</p>
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Project Internal Staff	<p>Fleet Maintenance Staff will manage this project</p>
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Project Justification	<p>This snowplow is critical to the operation of the District during the winter months. Necessary for snow removal of parking lots at Diamond Peak, Ski Way roadway, Recreation Center, Main office and other District facilities. Considered vital for the protection of public health and safety and revenue for the recreation venues. The scheduled replacement of this equipment will be subject to accrued maintenance cost, visual inspection and overall condition. Plow will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Snowplow	18,000	0	18,000
Year Total	18,000	0	18,000
2027			
Snowplow	21,000	0	21,000
Year Total	21,000	0	21,000
	39,000	0	39,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Oct 31, 2021	Fleet Superintendent	



Project Summary

Project Number:	2097LE1721
Title:	Snowplow #307A
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>Purchase replacement snow plow utilized in conjunction with Utility Division loaders for winter snow removal requirements around the entire District. The areas include Diamond Peak parking lots, Skiway, Recreation Center, Administration, Public Works facilities, Water and Sewer pump stations, water reservoir roads and etc. Loader snow plows are on a 10-year replacement schedule subject to overall condition. The plow will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring the replacement date.</p>
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Project Internal Staff	
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Project Justification	<p>This snowplow is critical to the operation of the District during the winter months. Necessary for snow removal of parking lots at Diamond Peak, Ski Way roadway, Recreation Center, Main office and other District facilities. Considered vital for the protection of public health and safety and revenue for the recreation venues. The scheduled replacement of this equipment will be subject to accrued maintenance cost, visual inspection and overall condition. Plow will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Snowplow	18,000	0	18,000
Year Total	18,000	0	18,000
2027			
Snowplow	21,000	0	21,000
Year Total	21,000	0	21,000
	39,000	0	39,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2022	Nov 30, 2022	Fleet Superintendent	



Project Summary

Project Number:	2097LE1722
Title:	Slurry Liquidator #326
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description
This project is for the scheduled replacement of a vacuum system, #326 Slurry liquidator, by the Fleet Division for the Public Works Department. This equipment is utilized by the Pipeline Division during the summer maintenance season for vacuuming out and cleaning water system vaults and water meter boxes. Presently it is on a 10-year replacement program, but will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.

Project Internal Staff
Fleet Maintenance Staff will manage this project

Project Justification
This vacuum system is utilized during the summer water and sewer system maintenance program. Specifically utilized by the Pipeline maintenance crews for vacuuming out water meter boxes, PRV station vaults and valve boxes to facilitate scheduled maintenance and/or repairs. Replacement of the equipment is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Equipment will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Slurry Liquidator	41,000	0	41,000
Year Total	41,000	0	41,000
2033			
Slurry Liquidator	49,000	0	49,000
Year Total	49,000	0	49,000
	90,000	0	90,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Nov 30, 2021	Fleet Superintendent	



Project Summary

Project Number:	2097LE1723
Title:	2004 9' Western Snow Plow #542A
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
This project is for the scheduled replacement of snowplow #542A , by the Fleet Division for the Public Works Department. This auxiliary equipment is on a 10-year replacement program subject to maintenance cost, visual inspection and overall condition. The purchase of this plow will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This snow plow is utilized in conjunction with vehicle #542 (1-ton flatbed truck). Considered a vital piece of equipment for the Utility Division winter snow removal operation. Specifically utilized in District areas where larger equipment may not be able to access. The replacement date of this equipment is subject to maintenance cost, visual inspection and overall condition.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
9' Snow Plow	9,000	0	9,000	
Year Total	9,000	0	9,000	
2028				
9' Snow Plow	6,800	0	6,800	
Year Total	6,800	0	6,800	
	15,800	0	15,800	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Jul 1, 2019	Oct 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	2097LE1724
Title:	2015 Sander/Spreader #710
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description

This project is for the scheduled replacement of sander/spreader #710, by the Fleet Division for the Public Works Department. This sander is used extensively during winter months for sanding road and parking areas around the District where slippery conditions may exist. This equipment is mounted on the flatbed of utility truck #542 along with a snow plow mounted on front of the vehicle. This equipment combination is vital to the Utility Division snow removal program. The sander is on a 5-year replacement program subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. This project will also coincide with the replacement of truck #542 and include a plow to be fitted to the new truck. Equipment is moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.

Project Internal Staff

Fleet Maintenance Staff will manage this project

Project Justification

This equipment by virtue of the duty it performs is a high wear piece of equipment. Specifically designed to haul and spread sand and salt mixtures on the roads and parking areas around the District. The corrosive nature of the material utilized in this operation literally disintegrates the equipment. It is essential to maintain the established replacement scheduled identified by Fleet staff for the sanding unit.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Sander/Spreader	20,000	0	20,000
Year Total	20,000	0	20,000
2026			
Sander/Spreader	16,000	0	16,000
Year Total	16,000	0	16,000
2031			
Sander/Spreader	17,000	0	17,000
Year Total	17,000	0	17,000
2036			
Sander/Spreader	18,000	0	18,000
Year Total	18,000	0	18,000
	71,000	0	71,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Nov 30, 2019	Fleet Superintendent	



Project Summary

Project Number:	2097LI1401
Title:	Pavement Maintenance, Utility Facilities
Project Type:	E - Capital Maintenance
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	Lease Eligible
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description

This project is for the continued maintenance and repair of pavement assets at all Utility facilities. Facilities include sewer and water pumping stations, reservoirs, Wastewater Treatment Plant and Public Works Facility. There are 19 utility sites with a combined total of 231,000 square feet of coverage. Public Works staff maintains a database of these and other facilities for pavement conditions, past projects and forecasts long-term maintenance needs. Public Works staff performs annual inspections of all sites. Life of maintenance measures varies: New pavement has a typical lifespan of 15 -20 years, Overlay 5-10 years, Slurry Seal can last 3-6 years and crack fill 1-3 years all dependent on degree of use and severity of weather and snow removal.

Project Internal Staff

Public Works staff will perform design, bid, contract administration and related inspection tasks. Work will be performed by outside contractors.

Project Justification

Regular preventative maintenance of pavement significantly increases the life of the asset and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate pavement deterioration. By sealing the cracks and sealing the surface it extends the life of the pavement and protect the structure below. A baseline of annual funds are budgeted due the overall age of most facilities and the possibility for unforeseen winter damage. The upper lot at Public works is 15 years old and showing signs of distress and in need of rehabilitation prior to slurry seal in 2019. The driveway to WPS 3-1 is distressed and in need of reconstruction. The driveway to R3-1 WPS 4-2/5-1 has a separate CIP for a planned project

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Internal Services	5,000	0	5,000
Miscellaneous repairs	10,000	0	10,000
Reconstruct road to WPS 3-1	30,000	0	30,000
Year Total	45,000	0	45,000
2021			
Crack fill and slurry all sites	229,000	0	229,000
Internal Services	10,000	0	10,000
Public Works upper lot repairs	60,000	0	60,000
Year Total	299,000	0	299,000
2022			
Internal Services	2,500	0	2,500
Miscellaneous repairs	10,000	0	10,000
Year Total	12,500	0	12,500
2023			
Internal Services	2,500	0	2,500

Miscellaneous repairs	10,000	0	10,000
Year Total	12,500	0	12,500
2024			
Internal Services	2,500	0	2,500
Miscellaneous repairs	10,000	0	10,000
Year Total	12,500	0	12,500
2025			
Internal Services	10,000	0	10,000
Repave Utility Facilities	250,000	0	250,000
Year Total	260,000	0	260,000
2026			
Crack fill and slurry all sites	250,000	0	250,000
Internal Services	10,000	0	10,000
Year Total	260,000	0	260,000
2027			
Internal Services	2,500	0	2,500
Miscellaneous repairs	10,000	0	10,000
Year Total	12,500	0	12,500
2028			
Internal Services	2,500	0	2,500
Miscellaneous repairs	10,000	0	10,000
Year Total	12,500	0	12,500
2029			
Internal Services	2,500	0	2,500
Miscellaneous repairs	10,000	0	10,000
Year Total	12,500	0	12,500
2030			
Internal Services	10,000	0	10,000
Repave Utility Facilities	300,000	0	300,000
Year Total	310,000	0	310,000
2031			
Crack fill and slurry all sites	300,000	0	300,000
Internal Services	10,000	0	10,000
Year Total	310,000	0	310,000
2032			
Internal Services	2,500	0	2,500
Miscellaneous repairs	10,000	0	10,000
Year Total	12,500	0	12,500
2033			
Internal Services	2,500	0	2,500

Miscellaneous repairs	10,000	0	10,000
Year Total	12,500	0	12,500
2034			
Internal Services	2,500	0	2,500
Miscellaneous repairs	10,000	0	10,000
Year Total	12,500	0	12,500
2035			
Internal Services	10,000	0	10,000
Repave Utility Facilities	300,000	0	300,000
Year Total	310,000	0	310,000
2036			
Crack fill and slurry all sites	300,000	0	300,000
Internal Services	10,000	0	10,000
Year Total	310,000	0	310,000
	2,216,500	0	2,216,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Senior Engineer	Testing



Project Summary

Project Number:	2097LI1701
Title:	Pavement Maintenance, Reservoir 3-1 WPS 4-2/5-1
Project Type:	E - Capital Maintenance
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description				
This project is for partial replacement of the existing failing roadway and retaining wall to Reservoir 3-1 and also servicing Water Pump Station 4-2/5-1.				
Project Internal Staff				
Public Works staff will manage design, bid and contract administration. Engineering services and Materials Testing by outside consultant. Construction by outside contractor				
Project Justification				
Roadway pavement is alligatored and deteriorating rapidly. It is beyond its repairable life and needs full replacement. Total improved area is approx 2400 sf of pavement and 340 lf of retaining wall. Due to elevation and slope the road sees extreme snow removal and heavy wear.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Engineering Consultant	10,000	0	10,000	
Year Total	10,000	0	10,000	
2022				
Construction Inspection and Testing	10,000	0	10,000	
Internal Services	10,000	0	10,000	
Retaining wall replacement	120,000	0	120,000	
Roadway section replacement	25,000	0	25,000	
Year Total	165,000	0	165,000	
	175,000	0	175,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2020	Jun 30, 2022	Senior Engineer	



Project Summary

Project Number:	2097LV1710
Title:	2013 Chevy Equinox
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description				
This project is for the replacement of the Engineering Division vehicle. The vehicle is utilized Engineering Staff to support project delivery, construction inspection, construction management, and other Division responsibilities. The vehicle also serves as a pool vehicle for the larger Public Works Department for errand running, trips to Carson and Reno, as well as to support regional travel for training and conferences. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection, and overall condition.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This purchase is subject to accumulated hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Equipment will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Engineering Division Vehicle	37,000	0	37,000	
Year Total	37,000	0	37,000	
	37,000	0	37,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2023	Jun 30, 2024	Fleet Superintendent	



Project Summary

Project Number:	2097LV1734
Title:	2013 1/2 Ton Pick-Up #677 Treatment
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description					
This project is for the scheduled replacement of vehicles, by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.					
Project Internal Staff					
Fleet has identified that this 2001 vehicle can be transferred to the IT Department to become their new service vehicle, once it is fitted with a utility cargo unit.					
Project Justification					
This pick-up truck is operated by the Treatment Plant Division of the Public Works Department. Specifically utilized in the daily maintenance and repair activity of the Water Treatment Plant facility. Presently this vehicle is on a 12-year replacement schedule with an estimated mileage, at that time, of 70,000 miles. The replacement of this vehicle is subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicle will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2024					
1/2 Ton Pick-Up	37,000	0	37,000		
Year Total	37,000	0	37,000		
	37,000	0	37,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2013	Jul 1, 2023	Jun 30, 2024	Fleet Superintendent		



Project Summary

Project Number:	2097LV1738
Title:	2009 Chevrolet 1/2 Ton Pick-up Truck #631
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description	This project is for the scheduled replacement of vehicles by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	This pick-up truck is operated by the Waste Not Division of the Public Works Department. Specifically utilized daily for the inspection of water and sewer projects, completed by independent contractors, District wide. Additionally utilized by compliance staff for the testing and repairs of water backflow devices in Incline Village and Crystal Bay. Presently this vehicle is on a 10-year replacement schedule subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicle will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.
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Forecast	
Budget Year	Total Expense Total Revenue Difference
2022	
1/2-Ton Pick-up	30,000 0 30,000
Year Total	30,000 0 30,000
2030	
1/2-Ton Pick-up	29,000 0 29,000
Year Total	29,000 0 29,000
	59,000 0 59,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Sep 1, 2021	Dec 31, 2021	Fleet Superintendent	



Project Summary

Project Number:	2097LV1739
Title:	2009 Chevrolet 1/2 Ton Pick-up Truck #632 Engineering Dept.
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description				
This project is for the scheduled replacement of vehicles by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This pick-up truck is operated by the Engineering Division of the Public Works Department. Specifically utilized daily for the inspection of water and sewer projects, completed by independent contractors, District wide. Presently this vehicle is on a 10-year replacement schedule subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicle will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
1/2-Ton Pick-up	32,000	0	32,000	
Year Total	32,000	0	32,000	
2030				
1/2-Ton Pick-up	29,000	0	29,000	
Year Total	29,000	0	29,000	
	61,000	0	61,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Jun 30, 2022	Fleet Superintendent	



Project Summary

Project Number:	2097LV1740
Title:	2012 Extend-A-Cab Pick-up #678 Pipeline Dept.
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description	This project is for the scheduled replacement of vehicles by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.
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Project Internal Staff	
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Project Justification	This vehicle is utilized to perform the daily duties of the Utility Division Pipeline Crew and is the truck used after hours by the on call staff. This vehicle has been moved back in the CIP from a 10-year replacement date to an 11-year replacement date. This vehicle also may be transferred to another operating where critical response or down time is not an issue.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
2001 Extend-A-Cab Pick-up	32,000	0	32,000
Year Total	32,000	0	32,000
	32,000	0	32,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jul 1, 2022	Dec 31, 2022	Fleet Superintendent	



Project Summary

Project Number:	2097LV1743
Title:	2013 1-Ton Flatbed #679 Pipeline Dept.
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description	<p>This project is for the scheduled replacement of vehicles by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.</p>
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Project Internal Staff	
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Project Justification	<p>This one-ton pick-up truck is operated by the Pipeline Division of the Public Works Department. Until recently it was utilized as the platform to carry the sewer video camera equipment. The video camper was replaced in 2008 with a video van. Since that time the usage of this vehicle, as a service truck, has increased significantly. Presently it is on a 14-year replacement schedule subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicle will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
1-Ton Service Truck	44,000	0	44,000
Year Total	44,000	0	44,000
	44,000	0	44,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jul 1, 2023	Jun 30, 2024	Fleet Superintendent	



Project Summary

Project Number:	2097LV1744
Title:	2012 1-Ton Service Truck w/ Liftgate #668 Treatment
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description				
This project is for the scheduled replacement of vehicles, by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition.				
Project Internal Staff				
Project Justification				
This 1-ton pick-up truck is operated by the Treatment Plant of the Public Works Department. It has seen hard use in its daily duties both in town and at the wetlands facility. Presently it is on an 11-year replacement schedule, with an estimated mileage at that time of 85,000 miles. The replacement of this truck is subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2023				
1-Ton Service Truck w/ liftgate	43,000	0	43,000	
Year Total	43,000	0	43,000	
	43,000	0	43,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jul 1, 2022	Jun 30, 2023	Fleet Superintendent	



Project Summary

Project Number:	2097LV1745
Title:	2013 1-Ton Service Truck #680 Utilities Electrician
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description	This project is for the scheduled replacement of vehicles, by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Project Internal Staff	
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Project Justification	This 1-ton service truck is operated by the Treatment Plant Division of the Public Works Department. It is utilized by staff in the daily maintenance and repair of equipment located at the water and sewer pump stations around the District. Service trucks typically serve double duty both as a transport vehicle and as a mobile tool box and work platform to facilitate repairs. At the present replacement schedule it will be 12-years old with approximately 68,000 miles. This vehicle replacement is subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
1-Ton Service Truck	44,000	0	44,000	
Year Total	44,000	0	44,000	
	44,000	0	44,000	

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jul 1, 2023	Jun 30, 2024	Fleet Superintendent	



Project Summary

Project Number:	2097LV1746
Title:	2004 GMC 1-Ton Flatbed #542 Pipeline Dept.
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description	This project is for the scheduled replacement of vehicles, by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	This 1-ton dump truck is operated by the Pipeline Division of the Public Works Department. It is utilized by staff during summer months for hauling of material and additionally during the winter months it is vital to the snow removal program utilizing snowplow #542A on the front of the truck and sander #710 in the bed of the truck for spreading sand at all District areas, including Diamond Peak and Ski Way. This truck will be 10-years old at the present replacement schedule. Replacement of this vehicle is subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Forecast	
Budget Year	Total Expense Total Revenue Difference
2020	
1-Ton Dump Truck	48,000 0 48,000
Year Total	48,000 0 48,000
2030	
1-Ton Dump Truck	46,000 0 46,000
Year Total	46,000 0 46,000
	94,000 0 94,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Mar 31, 2020	Fleet Superintendent	



Project Summary

Project Number:	2097LV1747
Title:	2008 Chevrolet Service Truck #609 Meter Truck
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description	This project is for the scheduled replacement of vehicles, by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	This service truck is operated by the Compliance Division of the Public Works Department. Specifically utilized daily for the inspection of water and sewer projects, completed by independent contractors, District wide. Additionally utilized by compliance staff for the testing and repairs of water backflow devices in Incline Village and Crystal Bay. Presently this vehicle is on a 10-year replacement schedule subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicle will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Service Truck	36,000	0	36,000
Year Total	36,000	0	36,000
2030			
Service Truck	33,000	0	33,000
Year Total	33,000	0	33,000
	69,000	0	69,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Sep 1, 2019	Dec 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	2097LV1749
Title:	2011 Chevrolet Service Truck #647 Treatment
Project Type:	F - Rolling Stock
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description	This project is for the scheduled replacement of vehicles, by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	This 1-ton service truck is operated by the Treatment Plant Division of the Public Works Department. It is utilized by staff in the daily maintenance and repair of equipment located at the water and sewer pump stations around the District. Service trucks typically serve double duty both as a transport vehicle and as a mobile tool box and work platform to facilitate repairs. At the present replacement schedule it will be 10-years old. This vehicle replacement is subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates. This vehicle also may be transferred to another operating where critical response or down time is not an issue.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Service Truck	45,000	0	45,000
Year Total	45,000	0	45,000
2031			
Service Truck	49,000	0	49,000
Year Total	49,000	0	49,000
	94,000	0	94,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2020	Dec 31, 2020	Fleet Superintendent	



Project Summary

Project Number:	2097OE1205
Title:	Large Format Printer Replacement
Project Type:	G - Equipment & Software
Division:	97 - Public Works Shared
Budget Year:	2020
Finance Option:	
Asset Type:	OE - Office Equipment
Active:	Yes

Project Description			
<p>Replace existing OCE 7055 copier with an OCE 320 printer/copier/scanner. This printer/copier is the only large format printer/copier in the District and is used to print and copy full size design drawings for CIP projects, as well as other miscellaneous jobs for District function. As of 12/28/2010 the OCE 7055 and the HP800 ps plotter have not had any large costs for repairs or need for any repairs. The dollars represent the current cost to replace either unit a new unit will do both plot, scan and copy. the OCE 7055 only copies black and white and the HP800ps is a color plotter only. The cost of \$23,000 would purchase an OCE 300 or HP T2300 that will plot, scan, copy in color or black and white</p>			
Project Internal Staff			
Project Justification			
Equipment replacement is due to copier being 11+ years old and nearing the end of service life.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
Large Format Printer Replacement	29,000	0	29,000
Year Total	29,000	0	29,000
	29,000	0	29,000
Year Identified	Start Date	Est. Completion Date	Manager
2012	Feb 1, 2024	Jun 30, 2024	Public Works Contract Administrator
			Project Partner



Project Summary

Project Number:	2299DI1102
Title:	Water Pumping Station Improvements
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description				
The District owns thirteen water pumping stations in Incline Village and Crystal Bay to transport clean potable water to water reservoirs that supply the homes and businesses in the District. They were generally constructed between 1962 and 1975 with one exception of the new water pumping station 4-1 and 5-3 at Ski Way. The water pumping stations pumping capacity ranges from 75 gallons per minute to 6,000 gallons per minute. The water pumping stations are generally masonry block buildings with metal roofs that contain the mechanical and electrical equipment to pump water to the eight major pressure zones to serve the 8,000+ water customers. The equipment in each station includes pumps, motors, motor soft starts, variable frequency drives, telemetry equipment, motor control cabinets, automatic transfer switches, emergency generators, fuel tanks, surge anticipator valves, zone valves, isolation valves, instrumentation equipment, communication equipment, piping and other miscellaneous equipment. Our mission is to maintain the excellent condition and reliability of our aging infrastructure to provide safe potable water. Staff has identified the needed replacement of pumps, motors and soft starts at Water Pumping Stations 4-2, 5-2, and 6-1. This project includes the rebuild of the 12 control valves in the water pumping stations. This project includes the installation of chlorine analyzers for compliance with the Total Coliform Rule.				
Project Internal Staff				
Staff involvement in the removal, procurement, and replacement of equipment with rebuilt or new equipment. Smaller projects will be completed by staff. Larger projects will be contracted out.				
Project Justification				
This project funds the annual replacement of equipment listed above at the water pumping stations. Staff performs inspections and maintenance on water pumping stations and plans future major upgrades as equipment reaches the end of its useful life. The age of the equipment, the number of hours of operation and other equipment analyses, such as vibration testing, dictate replacement or rehabilitation of the equipment to maintain this reliability to provide continuous service of potable water to our customers. The forecast contains staff's best projection of the work to be performed.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Chlorine Residual Analyzers	5,000	0	5,000	
Pumps, motors, valves, and control rehabilitation	10,000	0	10,000	
WPS 5-2 Pump and Motor Replacement	30,000	0	30,000	
Year Total	45,000	0	45,000	
2021				
Pumps, motors, valves, and control rehabilitation	20,000	0	20,000	
WPS 6-1 Pump and Motor Replacement	30,000	0	30,000	
Year Total	50,000	0	50,000	
2022				
Pumps, motors, valves, and control rehabilitation	50,000	0	50,000	
Year Total	50,000	0	50,000	
2023				
Pumps, motors, valves, and control rehabilitation	50,000	0	50,000	
Year Total	50,000	0	50,000	
2024				
Pumps, motors, valves, and control rehabilitation	50,000	0	50,000	
Year Total	50,000	0	50,000	
	245,000	0	245,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner

2012	Jul 1, 2019	Jun 30, 2020	Principal Engineer	
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Project Summary

Project Number:	2299DI1103
Title:	Replace Commercial Water Meters, Vaults and Lids
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description				
The District owns and maintains 85 commercial water meters installed in heavy duty meter vaults and 26 pressure reducing valve stations. This project will continue the replacement of these commercial water meters and PRV vaults and or lids. Current useful life of a commercial meter is 20-50 years dependent on use, pressure and flows. Vault life can be approximately the same time period depending on location, traffic and the elements. These meters, vaults and lids have been put on our replacement list by priority but the list can change from year to year depending on the needs. These meters are in various configurations ranging in size from 4 to 10 inch. In coming years there will be continued replacement needed for meters, vaults and lids.				
Project Internal Staff				
Public Works staff will order and purchase the meters, vaults and lids, and bid and oversee the installations. Contractors will install the meters and replace vaults and lids.				
Project Justification				
Replacement of the commercial water meters will increase accuracy in meter reading and increase revenue. As meters age, they become less accurate and will measure water usage below actual, as is required by AWWA standards. Commercial water meters can last 20-50 years. Typically old meters are not worth repairing because parts are unavailable and newer meters meet the water demand profiles of our customers. Many meter vaults and lids are also in disrepair and need replacement for public and crew safety reasons and ease of accessibility for testing. This project allows for radio reading of all the commercial and residential meters combined. This project is programmed to replace the meter, vaults and lids using a just-in-time approach to maximize use prior to failure. Future years will be for just-in-time replacement of vaults and lids.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Vaults, structures and lids replacement	20,000	0	20,000	
Year Total	20,000	0	20,000	
2021				
Vaults, structures and lids replacement	40,000	0	40,000	
Year Total	40,000	0	40,000	
2022				
Vaults, structures and lids replacement	40,000	0	40,000	
Year Total	40,000	0	40,000	
2023				
Vaults, structures and lids replacement	40,000	0	40,000	
Year Total	40,000	0	40,000	
2024				
Vaults, structures and lids replacement	40,000	0	40,000	
Year Total	40,000	0	40,000	
	180,000	0	180,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Collection/Distribution Supervisor	



Project Summary

Project Number:	2299DI1204
Title:	Water Reservoir Coatings and Site Improvements
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description				
The District owns 13 potable water reservoirs in Incline Village and Crystal Bay. The reservoirs (tanks) store from 170,000 to 1,000,000 gallons of water. Tank heights range from 20-50 feet and diameters range from 33-68 feet. The first reservoirs were constructed in 1962 with the last one built in 1996. The reservoirs are coated on the outside with a dark green weather resistant paint. These tanks need to be re-coated based on weathering of paint, graffiti and the overall appearance. The interiors are cleaned, video inspected every 5 years with the last inspection taking place in 2014. Typically the epoxy interior coating lasts 20-25 years. These tanks are built into the hillside in many cases with steep embankments and no retaining wall to keep the soil, rocks, etc. away from the tank. Periodically these sites need to be cleared of debris to protect the exterior coating and allow access around the structure for maintenance including painting.				
Project Internal Staff				
Public Works staff will perform design, bid, contract administration and inspection.				
Project Justification				
The 13 steel water storage reservoirs throughout the District need to be re-coated (internal and external) to extend their life expectancy. These tanks get pitted and rust from exposure to the elements. We patch paint over the exterior problem areas and any graffiti. In addition, these tanks need to look aesthetically pleasing because they are mostly located in residential areas. The schedule is based on need. The coating work is performed by an outside contractor. Site improvements will be prioritized as needed. New pressure transducers will be installed as needed.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Site Improvements at Various Reservoirs	85,000	0	85,000	
Year Total	85,000	0	85,000	
2021				
Exterior recoating of R6C-1 and R2-1	85,000	0	85,000	
Year Total	85,000	0	85,000	
2022				
Exterior recoating R6-1 and R2-2	85,000	0	85,000	
Year Total	85,000	0	85,000	
2023				
Exterior recoating R2	60,000	0	60,000	
Year Total	60,000	0	60,000	
2024				
Exterior recoating of R5-3A and R5-3B	80,000	0	80,000	
Year Total	80,000	0	80,000	
2025				
Exterior Recoating of R3-A	55,000	0	55,000	
Year Total	55,000	0	55,000	
	450,000	0	450,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Utility Maintenance Specialist	



Project Summary

Project Number:	2299DI1401
Title:	Burnt Cedar Water Disinfection Plant Improvements
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description

The Burnt Cedar Water Disinfection Plant produces one billion gallons of potable drinking water for the 8000+ customers in Incline Village and Crystal Bay. The delivery of potable water to our customers is the most important mission of the Public Works Department. The two main federal water regulations that regulate the District's water system is the Surface Water Treatment Rule (SWTR 1989) and the Long Term 2 Enhanced Surface Water Treatment Rule (LT2 2006). The Plant contains raw water pumping, ozone system for disinfection for virus inactivation, ultraviolet system for girardia and cryptosporidium inactivation, chlorine dosing for residual disinfectin in the distribution, and treated water pumping. Associated with these processes are communication equipment, electrical equipment, instrumentation equipment, valving, standby electrical generation, chemical dosing etc. The plant has been in existence since 1961 with the most recent major upgrade completed in 2012 to achieve compliance with LT2.

This project is to cover the on-going capital maintenance and replacement of the equipment and facilities at the water disinfection plant.

Project Internal Staff

Staff will oversee the design, bid and administer the construction.

Project Justification

This project is for on-going capital replacement of equipment and facilities at the water disinfection plant. This project also includes a possible extension of the water intake pipeline. EPA and State Regulations may require extension of the raw water intake to the water plant where it is deeper and farther from the shore and creek mouths where it will be less influenced by disturbances from storms. This project also includes the potential abandonment of the old water intake line in Crystal Bay owned by IVGID since 1978. This project funds mechanical, electrical civil and control system improvements.

Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Electrical, Mechanical, and Pumping Improvements	25,000	0	25,000	
Removal of Washoe 1 Water Intake Line	25,000	0	25,000	
Year Total	50,000	0	50,000	
2021				
Electrical, Mechanical, and Pumping Improvements	25,000	0	25,000	
Removal of Washoe 1 Water Intake Line	30,000	0	30,000	
Year Total	55,000	0	55,000	
2022				
Electrical, Mechanical, and Pumping Improvements	25,000	0	25,000	
Year Total	25,000	0	25,000	
2023				
Electrical, Mechanical, and Pumping Improvements	25,000	0	25,000	
Year Total	25,000	0	25,000	
2024				
Electrical, Mechanical, and Pumping Improvements	25,000	0	25,000	
Year Total	25,000	0	25,000	
2025				
Water intake design	250,000	0	250,000	
Year Total	250,000	0	250,000	
2026				
Water intake construction	1,500,000	0	1,500,000	
Year Total	1,500,000	0	1,500,000	
	1,930,000	0	1,930,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2014	Jul 1, 2019	Jun 30, 2020	Engineering Manager	



Project Summary

Project Number:	2299DI1701
Title:	Water Reservoir Safety and Security Improvements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description				
<p>The District owns and maintains 13 water reservoirs in Incline Village and Crystal Bay to store clean potable water that supply the homes and businesses in the District. The majority of these reservoirs was constructed in the 1960's and 1970's, with the exception of reservoir 3A-1 construction in 1996. The reservoirs range in size from 173,000 gallons up to 1,000,000 gallons. The reservoirs are welded steel with various types of ladders and safety climbing apparatus. The ladders are provided to meet the Occupational Safety and Health Administration (OSHA) for exterior access to the roof area and the needs of the District. The reservoirs need to be modified to meet the current safety standards.</p>				
Project Internal Staff				
Staff will manage the project with a design, bid, and build process.				
Project Justification				
<p>When the reservoirs were constructed the ladders and climbing apparatus were built to current industry standards. The reservoir ladders and climbing apparatus have been modified over the years to meet the Homeland Security and OSHA standards. This project will upgrade the ladders, rails, fencing, and climbing apparatus to meet current Federal OSHA safety standards to protect IVGID employees required to climb the reservoirs. The reservoirs will also be assessed for proper security protections.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Internal Services	10,000	0	10,000	
Year Total	10,000	0	10,000	
2021				
Construction	250,000	0	250,000	
Year Total	250,000	0	250,000	
	260,000	0	260,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	Jul 1, 2017	Jun 30, 2021	Engineering Manager	



Project Summary

Project Number:	2299DI1702
Title:	Water Pump Station 2-1 Improvements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description			
Water Pump Station 2-1 (WPS 2-1) is located at the Burnt Cedar Water Disinfection Plant (BCWDP) and pumps the disinfected potable water into the water distribution system to serve Incline Village and Crystal Bay. There are four pumps located in the WPS. Three are rated at 2,200-gpm each and one is rated at 1,100-gpm. The maximum BCWDP capacity (water flow rate that can be disinfected and pumped) is 5,900-gpm (2 x 2,200-gpm and 1 x 1,100-gpm). This 5,900-gpm limit is set by regulatory permit, disinfection equipment capacities, and electrical service size. All four pumps are used year round in various combinations based on system demand.			
Project Internal Staff			
Public Works staff will manage design bid and construction contract administration.			
Project Justification			
WPS 2-1 is designed to provide the necessary flows to meet system demand with the largest pump out of service. If a 2,200-gpm pump fails, the remaining three pumps can supply the peak demand. However, an interesting problem arises if the 1,100-gpm pump fails. During 9 months of the year, one or two 2,200-gpm pumps can meet system demand. However, in the summer months and during peak snowmaking, there are extended periods that require maximum BCWDP capacity meaning three pumps in service (2 x 2,200-gpm and 1 x 1,110-gpm). If the 1,100-gpm pump fails and is out of service then the BCWDP cannot meet system demand. This is because WPS 2-1 cannot place the third 2,200-gpm pump into service because the BCWDP is not rated to produce a total of 6,600-gpm. Additionally, there is also a limitation in electrical service size and associated equipment that prevents three 2,200-gpm pumps from operating.			
WPS 2-1 was largely constructed in 1972 with minor upgrades in 1995 and 2012. The electric motor control centers (MCCs) and switchgear at WPS 2-1 date to the original 1972 installation. This equipment does not meet modern OSHA requirements for Arc Flash safety and the MCCs and switchgear is at the end of it's service life and no longer supported by the respective manufacturers. Additionally, two of 2,200-gpm vertical turbine pumps also date to the original 1972 installation and are approaching the end of their service lives (the remaining 2,200-gpm pump dates to 1995 and the 1,100-gpm pump dates to 2012). This project will complete design and construction of the new MCCs and switchgear to replace the 1972 equipment, provide modern controls and safety enhancements to meet current regulations, as well as install a variable frequency drive to allow one of the 2,200-gpm pumps to operate at half speed to provide redundancy to the 1,100-gpm pump. Additionally, the project will replace the two remaining original 2,200-gpm pumps with new equipment.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Vertical Turbine Pump Replacement (two 2,200-gpm pumps)	300,000	0	300,000
Year Total	300,000	0	300,000
	300,000	0	300,000
Year Identified	Start Date	Est. Completion Date	Manager
2017	Jul 1, 2017	Jun 30, 2020	Engineering Manager
			Project Partner



Project Summary

Project Number:	2299DI1707
Title:	Burnt Cedar Water Disinfection Plant Emergency Generator Fuel Tank Upgrades
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description			
This project will replace the existing diesel fuel underground storage tank (UST), control equipment, and associated appurtenances that provides and stores fuel for the Burnt Cedar Water Disinfection Plant Emergency Generator with a new above ground storage tank (AST). Once the new AST is installed and fully operational, the existing tank will be abandoned in place in compliance with Washoe County Health Department and Nevada Department of Environmental Protection requirements.			
Project Internal Staff			
District Engineering Staff will lead the planning, design, permitting, and construction of this project in coordination with the District Fleet and Treatment Divisions.			
Project Justification			
The existing UST and associated control equipment and piping appurtenances is at the end of its service life. The tank is seeing water intrusion and the piping is no longer in compliance with current regulations. The new AST will provide an equal volume of storage in an above ground and easily inspected and maintained configuration.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Engineering	25,000	0	25,000
Underground Storage Tank Replacement	175,000	0	175,000
Year Total	200,000	0	200,000
	200,000	0	200,000
Year Identified	Start Date	Est. Completion Date	Manager
2017	Jul 1, 2019	Jun 30, 2020	Engineering Manager
			Project Partner



Project Summary

Project Number:	2299DI2603
Title:	Residential meter and electronics replacement
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description	<p>Replace all residential water meters and electronic read equipment. As the residential meters reach the end of their useful life we will look at replacement with new meter and electronic technology. Meter life is approximately 30 years based on average use to stay within AWWA standards. The electronic components were replaced in 2006-2008 and have another 20 years of life. We expect the electronics and meter to be replaced in the 2026-2028 time frame. The meters were installed in 1996 and 1997 CIP projects. The new electronic data gathering capabilities would have to be evaluated and proven capable of reading both the commercial and residential meters.</p>
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Project Internal Staff	<p>Staff would investigate technology advancements with the manufacturers of the meters and electronic equipment. Staff would contract the change out project and oversee the daily progress and collection of the information as it is gathered. This project would involve the engineering, pipeline and billing staff for input, assistance, information gathering and new information installation.</p>
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Project Justification	<p>Project cost currently estimated to be approximately \$1,150,000 dollars. As the meter components and electronics age, they will become less dependable with increasing failures and the read accuracies will fall out of the AWWA standards. We are currently looking at approximately 4,000 units in the replacement plan using the current residential unit count. Useful life is based on estimations from the Badger meter company who's equipment is currently in our system.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
Meter and electronic	150,000	0	150,000
Year Total	150,000	0	150,000
2025			
Meter and electronic	250,000	0	250,000
Year Total	250,000	0	250,000
2026			
Meter and electronic	250,000	0	250,000
Year Total	250,000	0	250,000
2027			
Meter and electronic	500,000	0	500,000
Year Total	500,000	0	500,000
	1,150,000	0	1,150,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2023	Dec 31, 2027	Collection/Distribution Supervisor	



Project Summary

Project Number:	2299LV1720
Title:	2013 Mid Size Truck #675 Compliance
Project Type:	F - Rolling Stock
Division:	21 - Supply & Distribution
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description					
This project is for the scheduled replacement of vehicles, by the Fleet Division for the Public Works Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This pick-up truck is operated by the Utility Division of the Public Works Department. Specifically utilized daily by the water meter reader for collecting water usage data for billing purposes and to carry tools and equipment for performing minor repairs to meters and meter boxes. Presently this vehicle is on a 10-year replacement schedule. This truck may transfer to another department where service and reliability are not as important to the operating department.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2022					
Pick-up Truck	31,000	0	31,000		
Year Total	31,000	0	31,000		
	31,000	0	31,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2013	Jul 1, 2021	Jun 30, 2022	Fleet Superintendent		



Project Summary

Project Number:	2299WS1704
Title:	Watermain Replacement - Martis Peak Road
Project Type:	D - Capital Improvement - Existing Facilities
Division:	21 - Supply & Distribution
Budget Year:	2020
Finance Option:	
Asset Type:	WS - Water System
Active:	Yes

Project Description

Project area Martis Peak Rd only. This project is a continuation of the multi-year program to replace 1960's era thin-wall steel watermains and other deficient watermains. Replacement criteria is twofold: Replace those watermains with the most leaks and in streets with aging pavement. Since our water loss is now less than 6%, our main objective is to work closely with the Washoe County Road Department to replace watermains just prior to the County's repaving the street. We also work closely with the North Lake Tahoe Fire Protection District to determine areas of low fire flow, which may indicate a need for increased capacity in that area. There is approximately 6 miles of old steel watermains remaining in the system.

Our watermain replacement strategy involves meeting with Washoe County prior to each budget year and jointly agreeing on streets to be paved and watermains to be replaced. This project budgets to replace approx. 6 miles of pipeline in 15 years at \$1,500,000 per mile. Without additional escalators, that is \$9,000,000 in 15 years or \$600,000 per year. Adjustments have been made to allow for the trend of a high year then low year of work scheduled.

Project Internal Staff

Engineering will perform Design, Engineering, Bidding, Contract Administration and Inspection tasks. Outside contractor to do the work. IVGID resources remain available for ongoing maintenance activities and emergency response.

Project Justification

Our overall goal is to replace deficient watermains to keep our unaccounted for water loss to under 6% and to avoid costly pavement patch penalties imposed by Washoe County. The original watermains installed in much of Incline Village in the 1960's were thin-walled steel. These pipes are now failing repeatedly and need replacement. Washoe County has high pavement penalty costs for replacing watermains in newly paved streets. Replacing watermains in newly paved streets or streets with an excellent pavement condition could increase project costs by up to 50% due to pavement cut penalties.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Internal Planning & Design	50,000	0	50,000
Year Total	50,000	0	50,000
2021			
Construction Inspecting & Testing	60,000	0	60,000
Internal Planning & Design	25,000	0	25,000
Washoe Co Street repair and penalties	60,000	0	60,000
Watermain Construction	480,000	0	480,000
Year Total	625,000	0	625,000
	675,000	0	675,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2019	Jun 30, 2021	Senior Engineer	



Project Summary

Project Number:	2299WS1705
Title:	Watermain Replacement - Crystal Peak Road
Project Type:	D - Capital Improvement - Existing Facilities
Division:	21 - Supply & Distribution
Budget Year:	2020
Finance Option:	
Asset Type:	WS - Water System
Active:	Yes

Project Description

Project area Crystal Peak Road only. This project is a continuation of the multi-year program to replace 1960's era thin-wall steel watermains and other deficient watermains. Replacement criteria is twofold: Replace those watermains with the most leaks and in streets with aging pavement. Since our water loss is now less than 6%, our main objective is to work closely with the Washoe County Road Department to replace watermains just prior to the County's repaving the street. We also work closely with the North Lake Tahoe Fire Protection District to determine areas of low fire flow, which may indicate a need for increased capacity in that area. There is approximately 6 miles of old steel watermains remaining in the system.

Our watermain replacement strategy involves meeting with Washoe County prior to each budget year and jointly agreeing on streets to be paved and watermains to be replaced. This project budgets to replace approx. 6 miles of pipeline in 15 years at \$1,500,000 per mile. Without additional escalators, that is \$9,000,000 in 15 years or \$600,000 per year. Adjustments have been made to allow for the trend of a high year then low year of work scheduled.

Project Internal Staff

Engineering will perform Design, Engineering, Bidding, Contract Administration and Inspection tasks. Outside contractor to do the work. IVGID resources remain available for ongoing maintenance activities and emergency response.

Project Justification

Our overall goal is to replace deficient watermains to keep our unaccounted for water loss to under 6% and to avoid costly pavement patch penalties imposed by Washoe County. The original watermains installed in much of Incline Village in the 1960's were thin-walled steel. These pipes are now failing repeatedly and need replacement. Washoe County has high pavement penalty costs for replacing watermains in newly paved streets. Replacing watermains in newly paved streets or streets with an excellent pavement condition could increase project costs by up to 50% due to pavement cut penalties.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Internal Planning & Design	50,000	0	50,000
Year Total	50,000	0	50,000
2023			
Construction Inspection & Testing	60,000	0	60,000
Crystal Peak Road Watermain Construction	710,000	0	710,000
Internal Planning & Design	25,000	0	25,000
Washoe Co Street Repair and Penalties	50,000	0	50,000
Year Total	845,000	0	845,000
	895,000	0	895,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2021	Jun 30, 2023	Senior Engineer	



Project Summary

Project Number:	2299WS1706
Title:	Watermain Replacement - Rifle Pk Ct, Slott Pk Ct
Project Type:	D - Capital Improvement - Existing Facilities
Division:	21 - Supply & Distribution
Budget Year:	2020
Finance Option:	
Asset Type:	WS - Water System
Active:	Yes

Project Description

This project is a continuation of the multi-year program to replace 1960's era thin-wall steel watermains and other deficient watermains. Replacement criteria is twofold: Replace those watermains with the most leaks and in streets with aging pavement. Since our water loss is now less than 6%, our main objective is to work closely with the Washoe County Road Department to replace watermains just prior to the County's repaving the street. We also work closely with the North Lake Tahoe Fire Protection District to determine areas of low fire flow, which may indicate a need for increased capacity in that area. There is approximately 6 miles of old steel watermains remaining in the system.

Our watermain replacement strategy involves meeting with Washoe County prior to each budget year and jointly agreeing on streets to be paved and watermains to be replaced. This project budgets to replace approx. 6 miles of pipeline in 15 years at \$1,500,000 per mile. Without additional escalators, that is \$9,000,000 in 15 years or \$600,000 per year. Adjustments have been made to allow for the trend of a high year then low year of work scheduled.

Project Internal Staff

Engineering will perform Design, Engineering, Bidding, Contract Administration and Inspection tasks. Outside contractor to do the work. IVGID resources remain available for ongoing maintenance activities and emergency response.

Project Justification

Our overall goal is to replace deficient watermains to keep our unaccounted for water loss to under 6% and to avoid costly pavement patch penalties imposed by Washoe County. The original watermains installed in much of Incline Village in the 1960's were thin-walled steel. These pipes are now failing repeatedly and need replacement. Washoe County has high pavement penalty costs for replacing watermains in newly paved streets. Replacing watermains in newly paved streets or streets with an excellent pavement condition could increase project costs by up to 50% due to pavement cut penalties.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Internal Planning & Design	50,000	0	50,000
Year Total	50,000	0	50,000
2022			
Construction Inspection & Testing	30,000	0	30,000
Internal Planning & Design	20,000	0	20,000
Washoe Co Street Repair and Penalties	25,000	0	25,000
Watermain Construction	250,000	0	250,000
Year Total	325,000	0	325,000
	375,000	0	375,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2020	Jun 30, 2022	Senior Engineer	



Project Summary

Project Number:	2299WS1802
Title:	Watermain Replacement - Alder Avenue
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	WS - Water System
Active:	Yes

Project Description

Project area Alder Avenue street and easement area only. This project is a continuation of the multi-year program to replace 1960's era thin-wall steel watermains and other deficient watermains. Replacement criteria is twofold: Replace those watermains with the most leaks and in streets with aging pavement. Since our water loss is now less than 6%, our main objective is to work closely with the Washoe County Road Department to replace watermains just prior to the County's repaving the street. We also work closely with the North Lake Tahoe Fire Protection District to determine areas of low fire flow, which may indicate a need for increased capacity in that area. There is approximately 6 miles of old steel watermains remaining in the system.

Our watermain replacement strategy involves meeting with Washoe County prior to each budget year and jointly agreeing on streets to be paved and watermains to be replaced. This project budgets to replace approx. 6 miles of pipeline in 15 years at \$1,500,000 per mile. Without additional escalators, that is \$9,000,000 in 15 years or \$600,000 per year. Adjustments have been made to allow for the trend of a high year then low year of work scheduled.

Project Internal Staff

Engineering will perform Design, Engineering, Bidding, Contract Administration and Inspection tasks. Outside contractor to do the work. IVGID resources remain available for ongoing maintenance activities and emergency response.

Project Justification

Our overall goal is to replace deficient watermains to keep our unaccounted for water loss to under 6% and to avoid costly pavement patch penalties imposed by Washoe County. The original watermains installed in much of Incline Village in the 1960's were thin-walled steel. These pipes are now failing repeatedly and need replacement. Washoe County has high pavement penalty costs for replacing watermains in newly paved streets. Replacing watermains in newly paved streets or streets with an excellent pavement condition could increase project costs by up to 50% due to pavement cut penalties.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
Construction Inspection & Testing	25,000	0	25,000
Washoe County street repair & Penalties	135,000	0	135,000
Watermain Construction	375,000	0	375,000
Year Total	535,000	0	535,000
	535,000	0	535,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2018	Jul 1, 2023	Jun 30, 2024	Senior Engineer	



Project Summary

Project Number:	2299WS1803
Title:	Watermain Replacement - Future
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	WS - Water System
Active:	Yes

Project Description

For future projects. This project is a continuation of the multi-year program to replace 1960's era thin-wall steel watermains and other deficient watermains. Replacement criteria is twofold: Replace those watermains with the most leaks and in streets with aging pavement. Since our water loss is now less than 6%, our main objective is to work closely with the Washoe County Road Department to replace watermains just prior to the County's repaving the street. We also work closely with the North Lake Tahoe Fire Protection District to determine areas of low fire flow, which may indicate a need for increased capacity in that area. There is approximately 6 miles of old steel watermains remaining in the system.

Our watermain replacement strategy involves meeting with Washoe County prior to each budget year and jointly agreeing on streets to be paved and watermains to be replaced. This project budgets to replace approx. 6 miles of pipeline in 15 years at \$1,500,000 per mile. Without additional escalators, that is \$9,000,000 in 15 years or \$600,000 per year. Adjustments have been made to allow for the trend of a high year then low year of work scheduled.

Project Internal Staff

Engineering will perform Design, Engineering, Bidding, Contract Administration and Inspection tasks. Outside contractor to do the work. IVGID resources remain available for ongoing maintenance activities and emergency response.

Project Justification

As of 2018 the District has approximately 5.5 linear miles of leaky steel water main remaining for replacement. Our overall goal is to replace deficient watermains to keep our unaccounted for water loss to under 6% and to avoid costly pavement patch penalties imposed by Washoe County. The original watermains installed in much of Incline Village in the 1960's were thin-walled steel. These pipes are now failing repeatedly and need replacement. Washoe County has high pavement penalty costs for replacing watermains in newly paved streets. Replacing watermains in newly paved streets or streets with an excellent pavement condition could increase project costs by up to 50% due to pavement cut penalties.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
Future Project	50,000	0	50,000
Year Total	50,000	0	50,000
2025			
Future Project	600,000	0	600,000
Year Total	600,000	0	600,000
2026			
Future Project	600,000	0	600,000
Year Total	600,000	0	600,000
2027			
Future Project	600,000	0	600,000
Year Total	600,000	0	600,000
2028			
Future Project	600,000	0	600,000
Year Total	600,000	0	600,000

2029	Future Project	600,000	0	600,000
	Year Total	600,000	0	600,000
2030	Future Project	600,000	0	600,000
	Year Total	600,000	0	600,000
2031	Future Project	600,000	0	600,000
	Year Total	600,000	0	600,000
2032	Future Project	600,000	0	600,000
	Year Total	600,000	0	600,000
2033	Future Project	600,000	0	600,000
	Year Total	600,000	0	600,000
2034	Future Project	600,000	0	600,000
	Year Total	600,000	0	600,000
2035	Future Project	600,000	0	600,000
	Year Total	600,000	0	600,000
2036	Future Project	600,000	0	600,000
	Year Total	600,000	0	600,000
2037	Future Project	600,000	0	600,000
	Year Total	600,000	0	600,000
2038	Future Project	600,000	0	600,000
	Year Total	600,000	0	600,000
		8,450,000	0	8,450,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2018	Jul 1, 2024	Jun 30, 2025	Senior Engineer	



Project Summary

Project Number:	2299WS1804
Title:	R6-1 Tank Road Construction
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Water
Budget Year:	2020
Finance Option:	
Asset Type:	WS - Water System
Active:	Yes

Project Description				
This project is for improvements to an aging and only partially improved road to Water Reservoir 6-1 off of Lunar Ct. The existing roadway is approximately 2300 square feet of steep paved roadway and 2700 square feet of unpaved roadway. There are no BMP's in place. The Project proposes an asphalt roadway construction for the entire length and makes related storm water improvements.				
Project Internal Staff				
Public works staff will perform design, permitting, bid, contract administration and related inspection tasks. Construction by private contractor				
Project Justification				
This Water Reservoir sees regular inspections and the steep access road is eroding and not compliant with TRPA regulations. An improved roadway would allow for safer year-round access and mitigate environmental concerns. Most of the 13 existing reservoir access roads around the district have been paved however of the unpaved roads, R6-1 is difficult to maintain without a hardened asphalt surface. Other unpaved access roads presently maintained include R6c-1, R4-1, R8B-1, R5-3A and R5-3B.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Internal services	10,000	0	10,000	
Permitting	5,000	0	5,000	
Year Total	15,000	0	15,000	
2022				
Construction	100,000	0	100,000	
Internal services	5,000	0	5,000	
Materials testing	5,000	0	5,000	
Year Total	110,000	0	110,000	
	125,000	0	125,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2018	Jul 1, 2020	Jun 30, 2022	Senior Engineer	



Project Summary

Project Number:	2523HE1723
Title:	2001 Sellick Forklift #499
Project Type:	F - Rolling Stock
Division:	23 - Treatment
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description					
This project is for the scheduled replacement of forklift #499, by the Fleet Division, for the Public Works Treatment Plant. Treatment Plant utilizes this equipment in the daily operation of moving sludge bins, loading and unloading materials from delivery trucks and transporting supplies around the plant. This equipment is on a 10-year replacement program but will be moved back in the CIP if indicators reveal no adverse affects by deferring the replacement date.					
Project Internal Staff					
Project Justification					
Forklift #499 will be 13-years old at its present scheduled replacement date with an estimated total usage of approximately 1600 hours. Replacement will be subject to accumulated hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. This equipment will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2024					
2001 Sellick Forklift	65,000	0	65,000		
Year Total	65,000	0	65,000		
	65,000	0	65,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012			Fleet Superintendent		



Project Summary

Project Number:	2523HV1721
Title:	2006 Kenworth T800 Bin truck #587
Project Type:	F - Rolling Stock
Division:	23 - Treatment
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description	In 2006 the Public Works Department assumed the responsibility from Waste Management (Independent Sanitation) for hauling the treated sludge from the wastewater treatment plant to the Bentley facility in Minden, Nevada. The in-house sludge hauling program resulted in a 55% savings for each bin hauled over the contract price at that time. Although the present replacement date for this truck is 15-years it will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	This is the scheduled replacement of #587, Kenworth dump truck, utilized by the Utility Division for hauling treated sludge from the plant to the Bentley facility in Minden Nevada. This vehicle is critical to the daily operation of the Treatment Plant and will be 15-years old at its replacement date with an estimated minimum mileage of 168,000 miles. The replacement of this truck is subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
2006 Kenworth T800 B Dump truck	197,200	0	197,200
Year Total	197,200	0	197,200
	197,200	0	197,200

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Jun 30, 2022	Fleet Superintendent	



Project Summary

Project Number:	2524HE1725
Title:	2008 Chevrolet Camera Truck #615
Project Type:	F - Rolling Stock
Division:	24 - Transmission
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
Camera van utilized by the Utility Division for the video camera work performed on the Districts sewer lines. This process identifies the overall condition of the underground sewer system to help staff to schedule need repairs or line replacement. Presently the vehicle is on a 10-year replacement program.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This vehicle and camera equipment is critical to the operation of the Public Works Utility Division for identifying under ground sewer pipelines in need of maintenance, repairs or replacement. Other aspects of replacement for this vehicle coincide with updates or changes in the camera equipment technology and the vehicle requirements that may be needed				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Camera Truck	85,000	0	85,000	
Year Total	85,000	0	85,000	
2034				
Camera Truck	90,000	0	90,000	
Year Total	90,000	0	90,000	
	175,000	0	175,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2024	Jun 30, 2025	Fleet Superintendent	



Project Summary

Project Number:	2524SS1010
Title:	Effluent Export Project - Phase II
Project Type:	B - Major Projects - Existing Facilities
Division:	24 - Transmission
Budget Year:	2020
Finance Option:	
Asset Type:	SS - Sewer System
Active:	Yes

Project Description				
The District currently owns, operates and maintains a 21-mile pipeline that exports treated wastewater out of the Lake Tahoe Basin. The Effluent Export system also includes the un-lined pond and 500,000 gallon steel reservoir at the Water Resource Recovery Facility, the Spooner Effluent Pumping Station and numerous valves, fittings and appurtenances located along the pipeline.				
Project Internal Staff				
The Engineering Department will manage all phases of this project.				
Project Justification				
The Effluent Export Phase II Project will replace all of the remaining Segment 3 pipeline (13,700 linear feet) and portions or all of Segment 2 pipeline (17,300 linear feet) pending results of final condition assessment and design. Segment 3 experienced significant leaks in 2009 and 2014 of this bell and spigot pipe. Subsequent investigations confirmed progressive corrosion, which determined that wholesale replacement was required. Segment 2 is undergoing additional condition assessment efforts, as it was constructed of more robust welded steel and has not had a history of failures. This analysis is focused on identifying segments with extended life remaining and segments that need to be addressed in near term. Final design will dictate whether Segment 2 work will be of limited scope or complete replacement.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Internal Services	100,000	0	100,000	
Project Design and Construction Costs	1,900,000	0	1,900,000	
Year Total	2,000,000	0	2,000,000	
2021				
Internal Services	100,000	0	100,000	
Project Design and Construction Costs	1,900,000	0	1,900,000	
Year Total	2,000,000	0	2,000,000	
2022				
Internal Services	100,000	0	100,000	
Project Design and Construction Costs	1,900,000	0	1,900,000	
Year Total	2,000,000	0	2,000,000	
2023				
Internal Services	100,000	0	100,000	
Project Design and Construction Costs	1,900,000	0	1,900,000	
Year Total	2,000,000	0	2,000,000	
2024				
Internal Services	100,000	0	100,000	
Project Design and Construction Costs	1,900,000	0	1,900,000	
Year Total	2,000,000	0	2,000,000	
	10,000,000	0	10,000,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2024	Engineering Manager	



Project Summary

Project Number:	2599BD1105
Title:	Building Upgrades Water Resource Recovery Facility
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
This project is about the traditional building infrastructure at 1250 Sweetwater Road. This project funds the capital repairs and replacement of equipment for the operations, control, mechanical, solids handling, odor control and office buildings at the WRRF.				
Project Internal Staff				
Buildings Division and Treatment Staff will manage and deliver the work.				
Project Justification				
All of the building roofs were last replaced in 1995 with the major plant improvements project. The roofs are 20 year roofs and are scheduled for replacement in 2024-25. The exterior of buildings is on a 7-10 year cycle for painting. The interior of the buildings is on a 5-7 year cycle for painting. In 2021 a new automated gate will be installed for security purposes at the entrance to the WRRF. This gate includes automated access and security features.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Building Repairs and Improvements	10,000	0	10,000	
Year Total	10,000	0	10,000	
2021				
Security Gate Purchase and Installation	80,000	0	80,000	
Year Total	80,000	0	80,000	
2022				
Paint exterior of WRRF	40,000	0	40,000	
Year Total	40,000	0	40,000	
2023				
Paint interior of WRRF	30,000	0	30,000	
Year Total	30,000	0	30,000	
2024				
Roof replacement on all structures	50,000	0	50,000	
Year Total	50,000	0	50,000	
2025				
Roof replacement on all structures	275,000	0	275,000	
Year Total	275,000	0	275,000	
	485,000	0	485,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Utility Superintendent	



Project Summary

Project Number:	2599DI1104
Title:	Sewer Pumping Station Improvements
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	SS - Sewer System
Active:	Yes

Project Description	<p>The District owns 18 sewer pumping stations in Incline Village and Crystal Bay to transport raw sewage to the WRRF on Sweetwater Road. The stations were constructed in the 1960s and 1970s and have provided reliable service. The stations range from serving just a few houses to pumping almost half of the sewage flow in the District. The large sewer pumping stations are generally masonry block unit buildings and the small stations are below grade metal structures (dry well can and wet well). The stations contain the mechanical and electrical equipment to pump sewage to the WRRF from the 8000+ sewer customers. The equipment in the station includes pumps, motors, grinders, odor scrubbers, motor soft starts, variable frequency drives, telemetry equipment, motor control cabinets, automatic transfer switches, emergency generators, fuel tanks, check valves, isolation valves, instrumentation equipment, communication equipment, piping and other miscellaneous equipment. Our mission is to maintain the excellent condition and reliability of our aging infrastructure to collect and pump sewage to the WRRF and to protect the environment.</p>
Project Internal Staff	<p>Staff involvement is the removal, procurement, and replacement of equipment with rebuilt or new equipment. Larger pump station capital improvement projects will be contracted out and supervised by Public Works staff.</p>
Project Justification	<p>This project funds the annual replacement of the equipment listed above at the sewer pumping stations. Staff performs inspections and maintenance on sewer pumping stations and plans future major upgrades as equipment reaches the end of its useful life. The age of the equipment, the number of hours of operation and other equipment analyses such as vibration testing dictate replacement or rehabilitation of the equipment to maintain this reliability to provide continuous service. The forecast contains staffs best projection of the work to be performed. The 2019-20 fiscal year includes anticipated mechanical and electrical work at several sewer pump stations in the District. There is also some design funds allocated for SPS-7 valve work.</p>

Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Electrical, Mechanical, and Pumping Improvements at Various Stations	10,000	0	10,000	
SPS-7 Improvements Design	5,000	0	5,000	
Year Total	15,000	0	15,000	
2021				
Electrical, Mechanical, and Pumping Improvements at Various Stations	10,000	0	10,000	
SPS-7 Construction	50,000	0	50,000	
Year Total	60,000	0	60,000	
2022				
Electrical, Mechanical, and Pumping Improvements at Various Stations	30,000	0	30,000	
Year Total	30,000	0	30,000	
2023				
Electrical, Mechanical, and Pumping Improvements at Various Stations	30,000	0	30,000	
Year Total	30,000	0	30,000	
2024				
Electrical, Mechanical, and Pumping Improvements at Various Stations	50,000	0	50,000	
Year Total	50,000	0	50,000	
2025				
SPS-10 Pump and Motor Replacement	50,000	0	50,000	
Year Total	50,000	0	50,000	
2026				
SPS-10 Pump and Motor Replacement	200,000	0	200,000	
Year Total	200,000	0	200,000	
	435,000	0	435,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Principal Engineer	



Project Summary

Project Number:	2599DI1701
Title:	Sewer Pumping Station 14 Improvements
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description					
There are two sewer pumping stations in series (SPS 14A and SPS 14B) located on North Lake Circle in Crystal Bay. SPS 14A pumps to SPS 14B which then pumps to the forcemain located in SR-28 in Crystal Bay at the corner of North Lake Circle. The flow then proceeds through District's sewer system to the WRRF. The stations were originally part of the Crystal Bay General Improvement District and came under ownership of IVGID in 1995 as part of the merger agreement. The stations have a capacity of 55 gallon per minute and nominally serve less than 100 residences.					
Project Internal Staff					
The project will be managed by engineering.					
Project Justification					
The two sewer pumping stations were installed in 1977. The equipment has reached the end of its service life and we are performing a higher frequency of repairs to keep it in service. This project will investigate the replacement options, design the preferred option and complete construction.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2024					
Predesign	30,000	0	30,000		
Year Total	30,000	0	30,000		
2025					
Design	75,000	0	75,000		
Year Total	75,000	0	75,000		
2026					
Construction	150,000	0	150,000		
Year Total	150,000	0	150,000		
	255,000	0	255,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2017	Jul 1, 2024	Jun 30, 2026	Engineering Manager		



Project Summary

Project Number:	2599DI1703
Title:	Sewer Pump Station #1 Improvements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description				
<p>The District owns 18 sewer pumping stations in Incline Village and Crystal Bay. Sewer Pump Station #1 collects and transports 50% of the raw sewage and transports it to the WRRF on Sweetwater Road. If something were to happen to Sewer Pump Station #8 there is a direct bypass that would send all of the raw sewage to Sewer Pump Station #1, thus accounting for 75% of the raw sewage in the District. Constructed in the early 1970s this station has provided reliable service. The station contains the mechanical and electrical equipment to pump sewage to the WRRF. The equipment in the station to be replaced as a part of this project are the variable frequency drives and motor control centers for the three pump sets. This will enhance the condition and reliability of our aging infrastructure to collect and pump sewage to the WRRF and to protect the environment.</p>				
Project Internal Staff				
Staff involvement is the coordination and contracting of the removal, procurement, and replacement of equipment with rebuilt or new equipment.				
Project Justification				
This project funds the replacement of the equipment listed above at sewer pumping station #1. The age of the equipment, the number of hours of operation and other equipment analyses dictate replacement or rehabilitation of the equipment to maintain this reliability to provide continuous service. The forecast contains staffs best projection of the work to be performed. The project will be constructed in 2019-20. The project is currently being designed in 2019.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Construction	250,000	0	250,000	
Year Total	250,000	0	250,000	
	250,000	0	250,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2019	Jun 30, 2020	Principal Engineer	



Project Summary

Project Number:	2599SS1102
Title:	Water Resource Recovery Facility Improvements
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	SS - Sewer System
Active:	Yes

Project Description	<p>The District's water resource recovery facility (WRRF) treats all of the raw sewage from the communities of Incline Village and Crystal Bay. The original treatment plant was built in 1962 and went through many upgrades as the community grew in size. The current plant configuration is largely the same from the major renovation in 1992 that replaced most equipment and processes. The plant is rated to treat 2.14 MGD by the State of Nevada. The plant has preliminary treatment, aeration, sedimentation, disinfection and solids dewatering processes to treat the raw sewage. Each of these processes consist of electrical, mechanical, instrumentation, and communication equipment. The plant also has odor control, chemical storage, fuel storage, overflow ponds, effluent storage reservoir, emergency generator, and other miscellaneous structures. Future years include the develop, design and construction of odor control upgrades.</p>
Project Internal Staff	<p>Staff selects, purchases and installs small equipment projects. Larger replacement projects are bid to outside contractors.</p>
Project Justification	<p>The majority of equipment and processes at the WRRF are 20 years old. The WRRF has sufficient capacity and redundancy that has kept the operating hours low for a number of pieces of equipment. Some equipment is run 24/7 necessitating frequent replacement. The forecast is staff's projection of the needed equipment replacement. It is planned to replace the potable water system, pump and motor installs, meters and sensors and to upgrade servers, firewalls, and other network equipment.</p>

Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Equipment improvements	15,000	0	15,000	
Mechanical Systems, sensors & meters	35,000	0	35,000	
SCADA, Network and Server Enhancements	50,000	0	50,000	
Year Total	100,000	0	100,000	
2021				
Equipment improvements	75,000	0	75,000	
Year Total	75,000	0	75,000	
2022				
Equipment improvements	75,000	0	75,000	
Year Total	75,000	0	75,000	
2023				
Equipment improvements	75,000	0	75,000	
Odor Control Predesign	25,000	0	25,000	
Year Total	100,000	0	100,000	
2024				
Equipment improvements	75,000	0	75,000	
Odor Control Design	100,000	0	100,000	
Year Total	175,000	0	175,000	
2025				
Equipment improvements	100,000	0	100,000	
Odor Control Construction	500,000	0	500,000	
Year Total	600,000	0	600,000	
2026				
Emergency generator replacement	300,000	0	300,000	
Equipment improvements	100,000	0	100,000	
Year Total	400,000	0	400,000	
2027				
Equipment improvements	100,000	0	100,000	
Year Total	100,000	0	100,000	
2028				
Equipment improvements	100,000	0	100,000	
Year Total	100,000	0	100,000	
	1,725,000	0	1,725,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Utility Superintendent	



Project Summary

Project Number:	2599SS1103
Title:	Wetlands Effluent Disposal Facility Improvements
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	SS - Sewer System
Active:	Yes

Project Description				
The District owns and maintains 900 acres of land in Douglas County for the disposal of WRRF effluent, at the discharge of the effluent export pipeline. The facility was constructed in 1983 as a beneficial reuse project by creating wetland cells for wildlife habitat. The effluent is distributed through the various cells via channels and pipes for transportation, evaporation and percolation. The property also contains a large area of warm water springs that is kept separate from the effluent cells. The underlying geology of the site poses challenges as the alkali dissolves causing short circuiting of flows from cell to cell. There is an extensive system for the wetland cells and surrounding levees to protect the facility from flooding. There is a road network of over 10.5 miles within the wetlands facility, with an additional 4.5 miles of levees, a control building and infrastructure for controlling the flow of effluent to and between cells.				
Project Internal Staff				
Public Works staff performs some of the maintenance and repairs at the facility, while larger projects may be contracted out with design and inspection being provided by staff.				
Project Justification				
The levees and roadways need to be maintained and resurfaced due to years of wear and tear as well as sub-grade subsidence. With the continued subsidence along levees and roadways we are installing barriers in the levees and roadways to reduce and/or eliminate the short circuiting of underground water between cells. With the facility being 37 years old, there are infrastructure improvements that need to be addressed in order to keep the facility in good working order such as replacement of piping, valves, vegetation control, invasive weed mitigation, junction boxes, flow control boxes, master inflow meter and sample locations.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Roadway resurfacing and structure repairs	10,000	0	10,000	
Year Total	10,000	0	10,000	
2021				
Resurface roadways, replace valves and install cut-off barriers in levees.	75,000	0	75,000	
Year Total	75,000	0	75,000	
2022				
Resurface roadways, replace valves and install cut-off barriers in levees.	100,000	0	100,000	
Year Total	100,000	0	100,000	
2023				
Resurface roadways, replace valves and install cut-off barriers in levees.	100,000	0	100,000	
Year Total	100,000	0	100,000	
2024				
Resurface roadways, replace valves and install cut-off barriers in levees.	100,000	0	100,000	
Year Total	100,000	0	100,000	
	385,000	0	385,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 1, 2020	Utility Maintenance Specialist	



Project Summary

Project Number:	2599SS1203
Title:	Replace & Reline Sewer Mains, Manholes and Appurtenances
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	SS - Sewer System
Active:	Yes

Project Description

This project includes the replacement and rehabilitation of sewer mains, manhole and appurtenances. Sections of sewer line, manholes and air relief valve rehabilitation have been identified for replacement. A priority list has been developed by Public Works staff. In addition to regular maintenance, sewer rehabilitation projects help the District to stay in compliance with Nevada Department of Environmental Protection (NDEP) permits and avoid sanitary sewer overflows. The District maintains approximately 1,800 manholes, 100 miles of gravity mains, 32 miles of force main and 79 air relief valves.

Project Internal Staff

Public Works staff will perform design, bid, contract administration and inspection. Larger projects will be contracted out while smaller projects will be performed by Public Works staff.

Project Justification

Line blockages and ground water intrusion increases the District's operating costs and puts the District at risk of violating its (NDEP) permit and potentially incur fines. Typically older clay sewers exhibit poor performance and are likely candidates for blockages and increased maintenance activities mainly due to root intrusion. There are manholes throughout the service area that require rehabilitation to prevent groundwater intrusion, which can also cause the concrete structure to deteriorate and to possibly collapse. By keeping close track if line blockages, customer complaints and closed circuit television (CCTV) inspection results, a priority list has been established for replacement or relining of sewer mains and manholes. The priority is based on a score, flow, proximity to streams and/or the lake. Older air release valves (arv's) can be difficult to access and unsafe to work on. Parts for these valves are obsolete. By repairing faulty mains and manholes, we also reduce the potential for sewer overflows in storm events while reducing the flows to the wastewater treatment plant. This works in conjunction with a strong preventative maintenance program of line cleaning and CCTV work. Extensive sewer main rehabilitation work was done in 2014 by CIPP lining and future projects are planned for anticipated failures as pipes age. ARV replacements are ongoing by IVGID crews.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Manhole Rehabilitation	10,000	0	10,000
Year Total	10,000	0	10,000
2021			
Internal Services	5,000	0	5,000
Manhole Rehabilitation	50,000	0	50,000
Year Total	55,000	0	55,000
2022			
Internal Services	10,000	0	10,000
Sewer Main Rehabilitation	100,000	0	100,000
Year Total	110,000	0	110,000
2023			
Internal Services	5,000	0	5,000
Manhole Rehabilitation	50,000	0	50,000
Year Total	55,000	0	55,000

2024			
Internal Services	5,000	0	5,000
Manhole Rehabilitation	50,000	0	50,000
Replace Air Relief Valves and Appurtenances	50,000	0	50,000
Year Total	105,000	0	105,000
2025			
Internal Services	5,000	0	5,000
Sewer Main Rehabilitation	500,000	0	500,000
Year Total	505,000	0	505,000
2026			
Internal Services	5,000	0	5,000
Manhole Rehabilitation	50,000	0	50,000
Year Total	55,000	0	55,000
2027			
Internal Services	5,000	0	5,000
Manhole Rehabilitation	50,000	0	50,000
Year Total	55,000	0	55,000
2028			
Construction Inspection & Testing	5,000	0	5,000
Internal Services	5,000	0	5,000
Manhole Rehabilitation	100,000	0	100,000
Replace Air Relief Valves and Appurtenances	50,000	0	50,000
Year Total	160,000	0	160,000
2029			
Internal Services	5,000	0	5,000
Manhole Rehabilitation	50,000	0	50,000
Year Total	55,000	0	55,000
2030			
Internal Services	5,000	0	5,000
Manhole Rehabilitation	50,000	0	50,000
Year Total	55,000	0	55,000
2031			
Internal Services	5,000	0	5,000
Manhole Rehabilitation	50,000	0	50,000
Year Total	55,000	0	55,000
2032			
Construction Inspection & Testing	5,000	0	5,000
Internal Services	5,000	0	5,000
Sewer Main Rehabilitation	100,000	0	100,000
Year Total	110,000	0	110,000

2033			
Construction Inspection & Testing	40,000	0	40,000
Internal Services	50,000	0	50,000
Manhole Rehabilitation	150,000	0	150,000
Sewer Main Rehabilitation	1,000,000	0	1,000,000
Year Total	1,240,000	0	1,240,000
2034			
Manhole Rehabilitation	150,000	0	150,000
Sewer Main Rehabilitation	1,000,000	0	1,000,000
Year Total	1,150,000	0	1,150,000
2038			
Replace Air Relief Valves and Appurtenances	50,000	0	50,000
Year Total	50,000	0	50,000
	3,825,000	0	3,825,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Senior Engineer	



Project Summary

Project Number:	2599SS1702
Title:	WRRF Biosolids Bins
Project Type:	F - Rolling Stock
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	SS - Sewer System
Active:	Yes

Project Description				
The Water Resource Recovery Facility treat the wastewater received from the service area to secondary standards. The effluent is pumped to the District's wetlands effluent disposal facility in the Carson Valley. The wastewater solids, biosolids are further processed to removed the water to make disposal more efficient. The solids handling process turn biosolids that are 0.5% solids and 99.5% water to 25% solids and 75% water. The consistency of these solids is similar to wet soil. These solids are then transported to Bently Agrodynamics for further processing in a composting facility to create solids that can be land applied according to Federal Law.				
Project Internal Staff				
Staff will identify and purchase new bins.				
Project Justification				
The biosolids are transported in 20-yard steel bins with tight fitting covers. The District employs a Class A driver to transport these to Bently Agrodynamics in the Carson Valley. The District hauls approximately 3 to 5 full bins per week of biosolids for a total of 400 dry tons per year. The bins need to be replaced on a 10 to 12 year cycle. This project is for the replacement of the 3 existing bins.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Purchase 3 20-yd biosolid bins	45,000	0	45,000	
Year Total	45,000	0	45,000	
	45,000	0	45,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2018	Dec 31, 2018		



Project Summary

Project Number:	2599SS1707
Title:	WRRF Aeration System Improvements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	SS - Sewer System
Active:	Yes

Project Description				
<p>The Wastewater Resource Recovery Facility (WRRF) was constructed by Incline Village General Improvement District (IVGID) in 1962. Since that time, there have been several upgrades and process replacements/improvements to modernize the WRRF and replace aging infrastructure. The aeration process of wastewater treatment supplies oxygen to facilitate the biological activity that converts raw sewage into treated wastewater effluent. The plant has six 200,000 gallon aeration basins with two jet aeration clusters per basin. These clusters utilize pressurized air to mix and recirculate the wastewater and provide the necessary oxygen to the microorganisms. The pressurized air is delivered by multistage centrifugal blowers that are metered by electronically operated valves in order to keep the correct balance of oxygen in the aeration basins at all times.</p>				
Project Internal Staff				
Staff involvement is the coordination and contracting of the removal, procurement, and replacement of equipment with new equipment.				
Project Justification				
<p>This project funds the design and replacement of the aeration system equipment at the WRRF. The age of the equipment, the number of hours of operation, and condition assessment indicates the existing centrifugal blowers are at the end of their serviceable life. Additionally, the blowers are no longer supported by the manufacturer and replacement parts are difficult to acquire. The pre-design phase of this project will evaluate current blower and aeration technologies and will select the technology best suited to the conditions at the District's WRRF. The design phase of this project will assemble the plans and specifications to facilitate equipment acquisition and installation. The pre-design report completed in 2018/19 includes the installation of three new turbo blowers, new blower control system, improvements to the motor control center, new aeration piping, new control valves and instrumentation. There is also the necessary demolition of existing aeration blowers and modifications necessary to the building to complete construction.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Construction	1,200,000	0	1,200,000	
Year Total	1,200,000	0	1,200,000	
	1,200,000	0	1,200,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2018	Jun 30, 2020	Engineering Manager	



Project Summary

Project Number:	2599SS1901
Title:	Wastewater Resource Recovery Facility (WRRF) Drainage Improvements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	SS - Sewer System
Active:	Yes

Project Description					
The project proposed is for stormwater collected by the buildings gutter system and discharged in the paved area adjacent to the building. The project would construct a concrete swale north of the Aeration Building to a detention area for infiltration.					
Project Internal Staff					
Staff will manage the project and oversee construction.					
Project Justification					
The area surrounding the building is very flat and has areas that create ponding. This project would covey the runoff to an appropriately size basin for infiltration.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2021					
Construction	10,000	0	10,000		
Internal Services	2,500	0	2,500		
Year Total	12,500	0	12,500		
	12,500	0	12,500		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2019	Jul 1, 2020	Oct 15, 2020	Senior Engineer		



Project Summary

Project Number:	2599SS2107
Title:	Update Camera Equipment
Project Type:	G - Equipment & Software
Division:	99 - General Administration - Sewer
Budget Year:	2020
Finance Option:	
Asset Type:	SS - Sewer System
Active:	Yes

Project Description

The camera van is used by the Utility Division for camera work performed on the District's sewer lines. This process identifies the overall condition of the underground sewer system to help staff schedule needed repairs or line replacement. It is also used to quickly identify the cause of sewer overflows and sources of illegal discharges. The van itself is addressed as a separate project as it falls under a different schedule for vehicle replacement. This project deals with the actual camera equipment housed inside the van. Items such as the camera head, transporter, cable reel, computer and various electronic components are subject to a much higher degree of wear and tear and are therefore subject to a shorter life span. Advances in technology and equipment serviceability also play a part.

Project Internal Staff

Fleet Maintenance and Pipeline Operations Staff

Project Justification

This camera equipment is critical to the operation of the Public Works Utility Division for identifying underground sewer pipelines in need of maintenance, repairs or replacement. Federal and state requirements mandate CCTV inspection of sewer systems. Results of inspections are required in the procurement of government funding for capital projects.

Forecast

Budget Year	Total Expense	Total Revenue	Difference
2021			
Sewer Inspection Equipment	60,000	0	60,000
Year Total	60,000	0	60,000
2030			
Sewer Inspection Equipment	65,000	0	65,000
Year Total	65,000	0	65,000
	125,000	0	125,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Feb 28, 2022	Collection/Distribution Supervisor	



5 Year Capital Improvement Plan Summary - As of 5.22.19
Internal Service

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
Internal Service									
Fleet	5190ME1201	Replacement Shop Tools and Equipment	Fleet Superintendent	-	-	-	16,000	-	16,000
	5197CO1801	Fleet Software upgrade - manages rolling stock/equip	Fleet Superintendent	-	14,000	-	-	-	14,000
	5197LE1720	Replace 2007 Vehicle/Equipment Trailer	Fleet Superintendent	-	-	-	-	10,850	10,850
	Total			-	14,000	-	16,000	10,850	40,850
Buildings	5394LE1723	2003 Genie Scissor Lift	Fleet Superintendent	-	-	16,000	-	-	16,000
	5394LE1724	2004 Equipment Trailer (Tilt)	Fleet Superintendent	-	-	5,200	-	-	5,200
	5394LV1720	Replace 2005 Service Truck 4X4 (1-ton) #555	Fleet Superintendent	-	-	43,600	-	-	43,600
	5394LV1722	Replace 2004 Pick-up Truck 4X4 (1/2-ton) #540	Fleet Superintendent	-	5,000	-	-	-	5,000
	Total			-	5,000	64,800	-	-	69,800
		Total Internal Service		-	19,000	64,800	16,000	10,850	110,650



Project Summary

Project Number:	5190ME1201
Title:	Replacement Shop Tools and Equipment
Project Type:	G - Equipment & Software
Division:	90 - Equipment Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	ME - Mechanical Equipment
Active:	Yes

Project Description
 This ongoing project is to replace old, worn out and outdated Fleet Shop tools and equipment, and purchase new specialty tools for new model year vehicles and equipment. These tools and equipment are essential to maintenance and repairs of all District rolling stock assets and the efficiency and safety of those operations. For 2017-18, the replacements are a Tire Machine, Lift for Tire Balancer & new Metal Cutting Band Saw.

Project Internal Staff
 Fleet Maintenance Staff will manage this project

Project Justification
 The existing tire mounting machine was originally purchased in 1996 and has exceeded its service life. Newer model vehicles and equipment are also coming with larger wheels and tires that are exceeding the capabilities of this machine. These larger tires and wheels also are much heavier and the new machine will be equipped with a lift to reduce the risk of injury when working on these larger tires. The Tire Balance machine purchased two years ago is sufficient to handle these larger tires but a lift for that existing machine will be purchased and added to reduce risk of injury. The existing Horizontal Metal Cutting Band Saw was originally purchased in 1987 and has exceeded its useful service life. This almost daily use piece of equipment is essential to metal working repairs and fabrication projects fleet performs.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
New & Replacement Tools & Equipment	16,000	0	16,000
Year Total	16,000	0	16,000
	16,000	0	16,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2017	Oct 31, 2017	Fleet Superintendent	



Project Summary

Project Number:	5197CO1801
Title:	Fleet Software upgrade - manages rolling stock/equip
Project Type:	G - Equipment & Software
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	CO - Computer Equipment
Active:	Yes

Project Description				
This is a scheduled upgrade of the Fleet Division's CFA (Computerized Fleet Analysis) equipment maintenance management software program. Presently Fleet utilizes the current 8.0 version. This program captures all maintenance costs and repair history of the District's vehicles and equipment, schedules the maintenance activities and maintains accurate inventory controls for all of Fleet's individual parts rooms. It is estimated that an upgrade of the program will be required every 8 to 10 years.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
Replacement of this software will be determined when support of currant version is no longer supported.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Fleet Software	14,000	0	14,000	
Year Total	14,000	0	14,000	
2029				
Fleet Software	17,000	0	17,000	
Year Total	17,000	0	17,000	
	31,000	0	31,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2018	Jun 30, 2019	Fleet Superintendent	



Project Summary

Project Number:	5197LE1720
Title:	Replace 2007 Vehicle/Equipment Trailer
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	This multi-use trailer is utilized by all venues for the transport of vehicles, equipment and materials. This single trailer replaced the need for three existing trailers (#226; #245 and #319). The life expectancy of the new trailer has been established at 15-years. Maintenance cost, visual inspection and over all condition will dictate if the replacement date may be moved back as its scheduled replacement date nears.
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	This trailer is vital to the operation of all District venues. Utilized for the transport of disabled vehicles and equipment by the Fleet Division, equipment transport from the Public Works yard to the Wetlands facility, equipment transport to auction, and equipment and materials transport by the Treatment Plant and Diamond Peak. Although this trailer has an established life expectancy of 15-years it will probably be moved back in the CIP as its replacement date nears.
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Forecast	
Budget Year	Total Expense Total Revenue Difference
2024	
Replace Car Dolly w/ winch	10,850 0 10,850
Year Total	10,850 0 10,850
	10,850 0 10,850

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2023	Jun 30, 2024	Fleet Superintendent	



Project Summary

Project Number:	5394LE1723
Title:	2003 Genie Scissor Lift
Project Type:	F - Rolling Stock
Division:	94 - Building Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	This personnel lift is utilized throughout the District for jobs that require a high reach personnel platform. Jobs include replacing light bulbs, fixtures and ballasts, painting building interiors and exteriors, roof repairs, duct work and etc. This equipment has a scheduled replacement cycle of 15-years.
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	The replacement of this equipment is subject to accrued maintenance cost, visual inspection and over all condition and will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring the replacement date.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Scissor Lift	16,000	0	16,000
Year Total	16,000	0	16,000
2035			
Scissor Lift	20,000	0	20,000
Year Total	20,000	0	20,000
	36,000	0	36,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 31, 2019	Dec 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	5394LE1724
Title:	2004 Equipment Trailer (Tilt)
Project Type:	F - Rolling Stock
Division:	94 - Building Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
This equipment trailer is utilized specifically for the transport of personnel scissor lift #535, constructed by the Fleet Division it has a conservative life expectancy of 15-years.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This equipment trailer was constructed by the Fleet Division in January of 2004. Although it has an established replacement date of 15-years it will most likely be moved back in the CIP or could be replaced if the replaced personnel lift does not fit on this trailer					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2022					
Equipment Trailer	5,200	0	5,200		
Year Total	5,200	0	5,200		
2035					
Equipment Trailer	7,500	0	7,500		
Year Total	7,500	0	7,500		
	12,700	0	12,700		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Jul 31, 2019	Dec 31, 2019	Fleet Superintendent		



Project Summary

Project Number:	5394LV1720
Title:	Replace 2005 Service Truck 4X4 (1-ton) #555
Project Type:	F - Rolling Stock
Division:	94 - Building Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description					
This project is for the scheduled replacement of vehicles by the Fleet Division for the Building Maintenance Division. Vehicles are on a 10-year replacement program subject to mileage/hours accumulated, accrued maintenance cost, oil analysis reports and visual inspection. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This truck is operated by the Buildings Department and will be replaced by a used service truck transferred from Utilities to keep operating cost lower for this Internal Service where critical response or down time is not an issue.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2022					
Service Truck 4X4 (1-ton)	43,600	0	43,600		
Year Total	43,600	0	43,600		
	43,600	0	43,600		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2013	Jul 1, 2010	Jun 30, 2011	Fleet Superintendent		



Project Summary

Project Number:	5394LV1722
Title:	Replace 2004 Pick-up Truck 4X4 (1/2-ton) #540
Project Type:	F - Rolling Stock
Division:	94 - Building Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description				
This project is for the scheduled replacement of vehicles by the Fleet Division for the Building Maintenance Division. Vehicles are on a 10-year replacement program subject to mileage/hours accumulated, accrued maintenance cost, oil analysis reports and visual inspection. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This truck is operated by the Buildings Department and will be replaced by a used service truck transferred from Utilities to keep operating cost lower for this Internal Service where critical response or down time is not an issue.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Service Truck 4X4 (1-ton)	5,000	0	5,000	
Year Total	5,000	0	5,000	
2029				
Service Truck 4X4 (1-ton)	42,000	0	42,000	
Year Total	42,000	0	42,000	
	47,000	0	47,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013			Fleet Superintendent	



5 Year Capital Improvement Plan Summary - As of 5.22.19
Golf

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
Championship Golf	3141BD1706	Venue Signage Enhancement	Director of Golf	40,000	-	-	-	-	40,000
	3141FF1804	Champ Golf Exterior Ice-maker Replacement	Buildings Superintendent	-	10,500	-	-	-	10,500
	3141FF1903	Championship Golf Course Bear Boxes	Grounds Superintendent Golf Courses	7,000	6,000	-	-	-	13,000
	3141GC1103	Irrigation Improvements	Grounds Superintendent Golf Courses	30,000	15,000	26,000	15,000	15,000	101,000
	3141GC1501	Maintenance Building Drainage, Washpad and Pavement improvements	Principal Engineer	30,000	700,000	-	-	-	730,000
	3141GC1802	Championship Course Greens and Surrounds	Grounds Superintendent Golf Courses	15,000	-	-	-	-	15,000
	3141GC1803	Championship Course Tees	Grounds Superintendent Golf Courses	15,000	-	-	-	45,000	60,000
	3141LI1201	Pavement Maintenance of Parking Lots - Champ Course & Chateau	Senior Engineer	17,500	52,500	45,000	10,000	515,000	640,000
	3141LI1202	Pavement Maintenance of Cart Paths - Champ Course	Senior Engineer	60,000	62,500	55,000	55,000	55,000	287,500
	3141LV1898	Championship Golf Course Electric Cart Fleet and GPS	Director of Golf	-	378,000	-	-	-	378,000
	3142LE1722	2001 Shattertine Aerifier #500	Fleet Superintendent	-	-	-	-	8,000	8,000
	3142LE1733	2005 Carryall Club Car #564	Fleet Superintendent	11,000	-	-	-	-	11,000
	3142LE1734	2005 Carryall Club Car #565	Fleet Superintendent	11,000	-	-	-	-	11,000
	3142LE1735	2005 Carryall Club Car #566	Fleet Superintendent	11,000	-	-	-	-	11,000
	3142LE1736	2005 Carryall Club Car #567	Fleet Superintendent	11,000	-	-	-	-	11,000
	3142LE1737	2006 Carryall Club Car #589	Fleet Superintendent	-	12,000	-	-	-	12,000
	3142LE1738	2006 Carryall Club Car #590	Fleet Superintendent	-	12,000	-	-	-	12,000
	3142LE1739	2006 Carryall Club Car #591	Fleet Superintendent	-	12,000	-	-	-	12,000
	3142LE1741	2016 Bar Cart #724	Fleet Superintendent	-	29,000	-	-	-	29,000
	3142LE1742	2016 Bar Cart #725	Fleet Superintendent	-	29,000	-	-	-	29,000
	3142LE1743	2017 Toro Sand Pro 3020 #744	Fleet Superintendent	-	-	-	-	22,000	22,000
	3142LE1745	2011 Toro 3500D Mower #649	Fleet Superintendent	-	-	-	-	43,500	43,500
	3142LE1746	2012 JD 8500 Fairway Mower #670	Fleet Superintendent	-	92,000	-	-	-	92,000
	3142LE1747	2011 Toro Groundsmaster 4000D #650	Fleet Superintendent	-	50,000	-	-	-	50,000
	3142LE1748	2015 Toro Greensmaster 1600 #711	Fleet Superintendent	-	-	-	10,000	11,300	21,300
	3142LE1749	2015 Toro Greensmaster 1600 #712	Fleet Superintendent	-	-	-	10,000	11,300	21,300
	3142LE1750	2013 JD 3235 Fairway Mower #685	Fleet Superintendent	-	-	92,000	-	-	92,000
	3142LE1751	2004 Toro Greensmaster 1600 #549	Fleet Superintendent	-	-	-	-	11,300	11,300
	3142LE1752	2005 Toro Greensmaster 1600 #574	Fleet Superintendent	-	-	-	-	11,300	11,300
	3142LE1753	2011 Toro Greensmaster 1000 #652	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1754	2011 Toro Greensmaster 1000 #653	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1755	2011 Toro Greensmaster 1000 #654	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1756	2011 Toro Greensmaster 1000 #655	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1757	2011 Toro Greensmaster 1000 #656	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1758	2011 Toro Greensmaster 1000 #657	Fleet Superintendent	-	-	-	-	10,400	10,400
	3142LE1759	2014 3500D Toro Rotary Mower #693	Fleet Superintendent	-	-	38,000	-	-	38,000
	3142LE1760	Replacement of 2010 John Deere 8500 #641	Fleet Superintendent	92,000	-	-	-	-	92,000
	3143GC1202	Driving Range Improvements	Grounds Superintendent Golf Courses	31,000	-	-	-	34,000	65,000
	3144FF1702	Replace Ice-maker Championship Golf Course Cart Barn	Buildings Superintendent	-	-	10,980	-	-	10,980
	3153BD2001	Recoat Chateau F&B Grill and Catering Kitchen Floors	Buildings Superintendent	-	-	37,200	-	-	37,200
	3153FF1204	Champ Grille Kitchen Equipment	Food and Beverage Director	46,200	-	-	-	-	46,200
	3197HV1749	1997 1-Ton Dump Truck #419	Fleet Superintendent	5,000	-	-	-	44,000	49,000



5 Year Capital Improvement Plan Summary - As of 5.22.19
Golf

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
	3197LE1724	2000 Toro Spreader #462	Fleet Superintendent	-	-	-	13,700	-	13,700
	3197LE1726	2001 Spiker/Seeder #477	Fleet Superintendent	-	-	-	12,000	-	12,000
	3197LE1728	2013 Toro Top Dresser #686	Fleet Superintendent	-	-	13,000	-	-	13,000
	3197LE1729	2006 Toro 1250 Spray Rig #586	Fleet Superintendent	-	-	-	-	35,000	35,000
	3197LE1731	2008 Planetair HD50 #616	Fleet Superintendent	-	35,000	-	-	35,000	70,000
	3197LE1732	2015 John Deere 1500 Fairway Aerator #716	Fleet Superintendent	27,000	-	-	-	-	27,000
	3197LE1733	2008 JD TC125 Core Harvester #621	Fleet Superintendent	-	-	12,400	-	-	12,400
	3197LE1734	2008 Bandit Brush Chipper #625	Fleet Superintendent	-	-	42,000	-	-	42,000
	3197LE1735	2017 TORO PROCORE 864 AERATOR #747	Fleet Superintendent	-	-	-	15,400	-	15,400
	3197LE1740	2005 John Deere Pro Gator #569	Fleet Superintendent	34,500	-	-	-	-	34,500
	3197LE1741	2015 Greens Roller #715	Fleet Superintendent	17,000	-	-	-	-	17,000
	3197LE1742	2014 Vibratory Greens Roller #696	Fleet Superintendent	17,000	-	-	-	-	17,000
	3197LE1746	2004 John Deere 4410 Tractor #548	Fleet Superintendent	40,000	-	-	-	-	40,000
	3197LE1748	Replace Blade Grinding Equipment	Fleet Superintendent	-	41,200	-	-	-	41,200
	3197LE1902	Graden Sand Injection Verticutter	Fleet Superintendent	-	18,500	-	-	-	18,500
	3197ME1710	Maintenance Shop Crane and Equipment Lift	Fleet Superintendent	30,000	-	-	-	-	30,000
	3199OE1501	Championship Golf Printer Copier Replacement 955 Fairway	Director of Golf	10,000	-	-	-	-	10,000
	Total			608,200	1,555,200	371,580	141,100	959,100	3,635,180
Mountain Golf	3241BD1503	Mtn. Golf Course Remodel On Course Bathrooms, #6 & #13/14	Principal Engineer	60,000	-	-	-	-	60,000
	3241GC1101	Mountain Course Greens, Tees and Bunkers	Grounds Superintendent Golf Courses	43,000	18,000	-	-	-	61,000
	3241GC1404	Irrigation Improvements	Grounds Superintendent Golf Courses	39,000	-	-	30,000	-	69,000
	3241GC1502	Wash Pad Improvements	Principal Engineer	-	-	70,000	-	-	70,000
	3241GC1802	Mountain Course Clubhouse and Maintenance Building Water Service Line Replacement	Senior Engineer	65,000	-	-	-	-	65,000
	3241LI1704	Mountain Golf Course Cart Path Retaining Walls	Senior Engineer	17,500	37,500	12,500	12,500	10,000	90,000
	3241LV1899	Mountain Course 58 Cart Fleet	Director of Golf	288,000	-	-	-	-	288,000
	3241ME1804	Mountain Golf Fuel Storage Facility	Fleet Superintendent	200,000	-	-	-	-	200,000
	3242LE1725	2005 Carryall Club Car #568	Fleet Superintendent	11,000	-	-	-	-	11,000
	3242LE1726	2016 Bar Cart #726	Fleet Superintendent	-	29,000	-	-	-	29,000
	3242LE1728	2015 Toro 4000D Rough Mower #709	Fleet Superintendent	-	-	-	61,000	-	61,000
	3242LE1731	2017 Toro Sand Pro #745	Fleet Superintendent	-	-	-	-	22,000	22,000
	3242LE1732	2016 Toro Tri-Plex Mower #614	Fleet Superintendent	-	-	-	43,400	-	43,400
	3242LI1204	Pavement Maintenance of Parking Lot - Mountain Golf Course	Senior Engineer	22,500	6,000	12,500	12,500	25,000	78,500
	3242LI1205	Pavement Maintenance of Cart Paths - Mountain Golf Course	Senior Engineer	40,000	45,000	45,000	45,000	45,000	220,000
	3299BD1403	Mountain Course Clubhouse and Maintenance Building Renovation and ADA Upgrades	Engineering Manager	-	-	-	95,000	600,000	695,000
	3299BD1702	Replace Roof - Mountain Golf Clubhouse	Buildings Superintendent	25,000	-	-	-	-	25,000
	3299BD1705	Paint Exterior of Mountain Golf Clubhouse	Buildings Superintendent	41,500	-	-	-	-	41,500
	3299BD1902	Mountain Clubhouse Improvements Project	Engineering Manager	1,464,000	-	-	-	-	1,464,000
	Total			2,316,500	135,500	140,000	299,400	702,000	3,593,400



Project Summary

Project Number:	3141BD1706
Title:	Venue Signage Enhancement
Project Type:	C - Capital Improvement - New Initiatives
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description			
<p>Visual signage near the heavy traffic areas around the outside of the golf course are limited to nonexistent. Project is to construct 3 signs at the designated locations that match the design of all other IVGID signs, which is the stone structure with black plating and gold/copper lettering. The 3 locations of the proposed signs would be:</p> <ol style="list-style-type: none"> 1) Corner of Country Club Drive and Hwy 28 2) Corner of Northwoods Blvd and Hwy 28 3) Country Club Drive near the turn off to Fairway Blvd. 			
Project Internal Staff			
IVGID Engineering, Golf Staff, Director of Community Services			
Project Justification			
The amount and design of signage to guide our customers to our facilities is lacking in the areas of where we receive the most traffic through town. Being a public facility, we need to maximize the opportunity to capture our potential customers via awareness of who, what, and where we are. The access to the Championship Course & Chateau come through Highway 28 and Country Club Drive, hence the locations of the signs. This coincides with the Districts initiative of Company Branding.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Venue signage	40,000	0	40,000
Year Total	40,000	0	40,000
	40,000	0	40,000
Year Identified	Start Date	Est. Completion Date	Manager
2017			Director of Golf
			Project Partner



Project Summary

Project Number:	3141FF1804
Title:	Champ Golf Exterior Icemaker Replacement
Project Type:	G - Equipment & Software
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description		Replace old unit with a new one that is capable of outdoor use and outdoor exposure both UV and water resistance.	
Project Internal Staff		Building Maintenance	
Project Justification		Old unit coming to the end of projected lifespan. Currently housed in a shed type structure new unit will be placed in a container that will protect it from wildlife and vandalism during closed hours of operation. During open hours, new unit will need to be, designed for outdoor use and outdoor abuse.	
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Champ golf exterior icemaker	8,500	0	8,500
Contingency	1,500	0	1,500
Internal Services	500	0	500
Year Total	10,500	0	10,500
	10,500	0	10,500
Year Identified	Start Date	Est. Completion Date	Manager
2018			Buildings Superintendent
			Project Partner



Project Summary

Project Number:	3141FF1903
Title:	Championship Golf Course Bear Boxes
Project Type:	G - Equipment & Software
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description		Installation of bear boxes on the Championship golf course and driving range		
Project Internal Staff				
Project Justification		Golf course trash cans need to be secure from bear activity, in accordance with other IVGID outdoor venues		
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
7 bear boxes	7,000	0	7,000	
Year Total	7,000	0	7,000	
2021				
6 bear boxes	6,000	0	6,000	
Year Total	6,000	0	6,000	
	13,000	0	13,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Sep 1, 2019	Nov 15, 2020	Grounds Superintendent Golf Courses	



Project Summary

Project Number:	3141GC1103
Title:	Irrigation Improvements
Project Type:	E - Capital Maintenance
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	GC - Golf Course Improvements
Active:	Yes

Project Description

Replacement of Championship Golf Course irrigation components, as well as additions and modifications to the existing system to enhance the efficiency of water application. This includes in-ground components such as sprinkler heads, wiring, mainline and lateral pipes, isolation valves, air relief valves, and quick coupler valves, as well as out of ground components such as field satellites, weather station, radio controls, and central control computer system.

Project Internal Staff

Golf Maintenance Staff will identify and install new components

Project Justification

Golf course irrigation component upgrades are necessary to address normal wear and tear and to continue to improve efficiency of water management. Current technology available will allow us to optimize the performance of the system. The hardware and software used to run the central control computer, sprinkler heads, and field satellites that communicate with the central control are all included. Recommended life cycles according to the Allied Associations of Golf (ASGCA, GCSAA, USGA, and GCBAA): Central control system – computer hardware every 3 years; software as upgrades from the manufacturer (Rainbird) are introduced. Field satellites – approximately every 15-20 years the technology changes enough to look at upgrading the satellites. Sprinklers – on average every 10-15 years a complete head replacement program should be considered. Piping system – a properly designed, installed, and maintained pipe system in this climate should last a minimum of 25-30 years. The Championship Course irrigation system was installed in 2003.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Field satellite internal component replacement	15,000	0	15,000
Reconfigure tee irrigation	7,000	0	7,000
Replace air relief valves	8,000	0	8,000
Year Total	30,000	0	30,000
2021			
Sprinkler head replacement	15,000	0	15,000
Year Total	15,000	0	15,000
2022			
Hardware, Software upgrades	11,000	0	11,000
Sprinkler head replacement	15,000	0	15,000
Year Total	26,000	0	26,000
2023			
Sprinkler head replacement	15,000	0	15,000
Year Total	15,000	0	15,000
2024			
Sprinkler head replacement	15,000	0	15,000
Year Total	15,000	0	15,000
2025			
Hardware, Software upgrades	12,000	0	12,000
Sprinkler head replacement	15,000	0	15,000
Year Total	27,000	0	27,000
2026			
Field satellite internal component replacement	40,000	0	40,000
Year Total	40,000	0	40,000
2028			
Hardware, Software upgrades	13,000	0	13,000
Year Total	13,000	0	13,000
2031			
Hardware, Software upgrades	14,000	0	14,000
Year Total	14,000	0	14,000
2033			
GPS/As-built upgrade	15,000	0	15,000
Pipe system replacement	1,500,000	0	1,500,000
Year Total	1,515,000	0	1,515,000
	1,710,000	0	1,710,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Grounds Superintendent Golf Courses	



Project Summary

Project Number:	3141GC1501
Title:	Maintenance Building Drainage, Washpad and Pavement improvements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	GC - Golf Course Improvements
Active:	Yes

Project Description				
Various site improvements to the 27 year-old Championship Golf Course Maintenance shop site located at the corner of Fairway Blvd and Northwood Blvd. Includes extensive drainage improvements and replacement of failed pavement and failed pedestrian walkways. Regulatory compliance also requires ADA access improvements and formal material storage bin construction (for staging sand, soils, and other golf course materials), a wash pad system and fertilizer/herbicide loading containment area. This project replaces former projects identified for Washpad and Pavement reconstruction.				
Project Internal Staff				
Design by outside consultant with consultation of IVGID Engineering and Golf staff. IVGID Engineering Dept will manage contract and bidding process. Construction contract by outside contractor.				
Project Justification				
The Maintenance Building at the Championship Golf Course was constructed in 1992. The pavement has exceeded its useful life and has failed. The sidewalk and stairs into the shop have failed.				
During the winter of 16/17 the shop saw flooding and significant groundwater infiltration through the building slab during elevated precipitation events due to poor drainage at the site. This resulted in significant damage to the interior of the building and a major insurance claim for repair. The permitting necessary to allow the drainage improvements will trigger upgrades to ADA access, the materials storage area, the equipment wash down area, and the fertilizer/herbicide loading area to bring these items into compliance with current regulatory requirements.				
Environmental concerns and proximity to a creek require the formal improvements for the materials storage area, equipment wash down and runoff retention, as well as the fertilizer/herbicide loading area. Modern washpad systems conserve water, improve safety and increase overall productivity. Modern fertilizer/herbicide loading systems prevent and contain any spillage during the loading and change over process.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Engineering services	25,000	0	25,000	
Internal Services	5,000	0	5,000	
Year Total	30,000	0	30,000	
2021				
Engineering services	10,000	0	10,000	
Internal Services	20,000	0	20,000	
materials testing	7,500	0	7,500	
Project improvements	662,500	0	662,500	
Year Total	700,000	0	700,000	
	730,000	0	730,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Principal Engineer	



Project Summary

Project Number:	3141GC1802
Title:	Championship Course Greens and Surrounds
Project Type:	E - Capital Maintenance
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	GC - Golf Course Improvements
Active:	Yes

Project Description				
Long term maintenance of green infrastructures, and resurfacing of greens and collars. Greens and collars will not be completely rebuilt in this plan, but rather resurfaced with the latest varieties of turf to take advantage of the latest in technology, as well as to eliminate the poa annual contamination that inevitably happens over time in this climate				
Project Internal Staff				
Golf maintenance staff will have complete involvement and input in all phases, from design through construction				
Project Justification				
Golf industry standards established by the Allied Associations of Golf (ASCGA, GCSAA, USGA, and GCBA) state how long parts of a golf course should last. Greens are 15-30 years, tees are 15-20 years, bunker sand and drainage pipes are 5-10 years. All golf course infrastructure is evaluated annually to determine the need and time frame for rebuilding or replacement				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Resurface collars 10-18	15,000	0	15,000	
Year Total	15,000	0	15,000	
2025				
Resurface greens	450,000	0	450,000	
Year Total	450,000	0	450,000	
	465,000	0	465,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2018			Grounds Superintendent Golf Courses	



Project Summary

Project Number:	3141GC1803
Title:	Championship Course Tees
Project Type:	E - Capital Maintenance
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	GC - Golf Course Improvements
Active:	Yes

Project Description				
Long term maintenance of tee infrastructures, and rebuilding/leveling of tees as needed. Red forward tees were added on several holes a few years ago and were very well received. The remaining red tees will be built over two years.				
Project Internal Staff				
Golf maintenance staff will have complete involvement and input in all phases, from design through construction				
Project Justification				
Golf industry standards established by the Allied Associations of Golf (ASCGA, GCSAA, USGA, and GCBA) state how long parts of a golf course should last. Tees are 15-20 years. All golf course infrastructure is evaluated annually to determine the need and time frame for rebuilding or replacement.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Build red tees on 7, 10, 11, 16	15,000	0	15,000	
Year Total	15,000	0	15,000	
2024				
Rebuild/level tees	45,000	0	45,000	
Year Total	45,000	0	45,000	
	60,000	0	60,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2018				



Project Summary

Project Number:	3141LI1201
Title:	Pavement Maintenance of Parking Lots - Champ Course & Chateau
Project Type:	E - Capital Maintenance
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description			
Continued maintenance and repair of Championship Golf Course pavement assets. This includes the parking lot and sidewalks at the Chateau. Assets at the Mountain Course have their own data sheet. Engineering maintains a database on this and other facilities for pavement condition, past projects, and forecasts long-term maintenance and replacement needs.			
Project Internal Staff			
Engineering to perform design, bid, contract administration and inspection tasks for maintenance projects. Maintenance Yard project engineering by outside consultant. All construction work to be done by outside contractor.			
Project Justification			
Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. The Chateau lot was Slurry Sealed in 2015. High groundwater and age is requiring increased maintenance. Reconstruction is scheduled for 2024. Chateau entry concrete was replaced with pavers in 2016 and remaining sections are planned for future years. A separate project is planned for 2020 at the Maintenance Shop.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Crack Fill and repairs	15,000	0	15,000
Internal Services	2,500	0	2,500
Year Total	17,500	0	17,500
2021			
Internal Services	2,500	0	2,500
Slurry Seal & Stripe	50,000	0	50,000
Year Total	52,500	0	52,500
2022			
Crack Fill and repairs	15,000	0	15,000
Internal Services	5,000	0	5,000
Repair/Remove bag drop	25,000	0	25,000
Year Total	45,000	0	45,000
2023			
Crack Fill and repairs	10,000	0	10,000
Year Total	10,000	0	10,000
2024			
Crack Fill and repairs	5,000	0	5,000
Internal Services	10,000	0	10,000

Rebuilding Parking Lot	500,000	0	500,000
Year Total	515,000	0	515,000
2025			
Crack Fill and repairs	3,000	0	3,000
Year Total	3,000	0	3,000
2026			
Crack Fill and repairs	5,000	0	5,000
Year Total	5,000	0	5,000
2027			
Crack Fill and repairs	5,000	0	5,000
Slurry Seal & Stripe	15,000	0	15,000
Year Total	20,000	0	20,000
2028			
Crack Fill and repairs	5,000	0	5,000
Year Total	5,000	0	5,000
2029			
Crack Fill and repairs	5,000	0	5,000
Year Total	5,000	0	5,000
2030			
Internal Services	5,000	0	5,000
Slurry Seal & Stripe	50,000	0	50,000
Year Total	55,000	0	55,000
2031			
Crack Fill and repairs	7,500	0	7,500
Year Total	7,500	0	7,500
2032			
Crack Fill and repairs	5,000	0	5,000
Year Total	5,000	0	5,000
2034			
Crack Fill and repairs	10,000	0	10,000
Year Total	10,000	0	10,000
2035			
Internal Services	5,000	0	5,000
Slurry Seal & Stripe	35,000	0	35,000
Year Total	40,000	0	40,000
2036			
Internal Services	10,000	0	10,000
Year Total	10,000	0	10,000
	805,500	0	805,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2016	Jun 30, 2017	Senior Engineer	



Project Summary

Project Number:	3141LI1202
Title:	Pavement Maintenance of Cart Paths - Champ Course
Project Type:	E - Capital Maintenance
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description

Continued maintenance and repair of Championship Golf Course cart paths. Assets at the Mountain Course have their own data sheet. Engineering maintains a database on this and other facilities for pavement condition, past projects, and forecasts long-term maintenance and replacement needs. This asset includes 250,000 sf of asphalt.

Project Internal Staff

Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.

Project Justification

Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate accelerate deterioration. These pathways see light use but also heavy damage due to age and irrigation and roots. Due to the nature of the facility and golf season regular small recurring annual projects are planned to keep up with a high level of service for the extensive cart path system .

Forecast

Budget Year	Total Expense	Total Revenue	Difference
2020			
Internal Services	10,000	0	10,000
Section Replacement	50,000	0	50,000
Year Total	60,000	0	60,000
2021			
Crack Fill and maintenance	10,000	0	10,000
Internal Services	2,500	0	2,500
Section Replacement	50,000	0	50,000
Year Total	62,500	0	62,500
2022			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	55,000	0	55,000
2023			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	55,000	0	55,000

2024			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	<u>55,000</u>	<u>0</u>	<u>55,000</u>
2025			
Internal Services	10,000	0	10,000
Sealing	125,000	0	125,000
Year Total	<u>135,000</u>	<u>0</u>	<u>135,000</u>
2026			
Crack Fill and maintenance	10,000	0	10,000
Internal Services	2,500	0	2,500
Year Total	<u>12,500</u>	<u>0</u>	<u>12,500</u>
2027			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	<u>55,000</u>	<u>0</u>	<u>55,000</u>
2028			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	<u>55,000</u>	<u>0</u>	<u>55,000</u>
2029			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	<u>55,000</u>	<u>0</u>	<u>55,000</u>
2030			
Internal Services	10,000	0	10,000
Sealing	125,000	0	125,000
Year Total	<u>135,000</u>	<u>0</u>	<u>135,000</u>
2031			
Crack Fill and maintenance	10,000	0	10,000
Internal Services	2,500	0	2,500
Year Total	<u>12,500</u>	<u>0</u>	<u>12,500</u>
2032			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	<u>55,000</u>	<u>0</u>	<u>55,000</u>
2033			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	<u>55,000</u>	<u>0</u>	<u>55,000</u>
2034			
Internal Services	5,000	0	5,000

Section Replacement	50,000	0	50,000	
Year Total	55,000	0	55,000	
2035				
Crack Fill and maintenance	10,000	0	10,000	
Internal Services	10,000	0	10,000	
Sealing	125,000	0	125,000	
Year Total	145,000	0	145,000	
	1,057,500	0	1,057,500	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2016	Jun 30, 2017	Senior Engineer	



Project Summary

Project Number:	3141LV1898
Title:	Championship Golf Course Electric Cart Fleet and GPS
Project Type:	F - Rolling Stock
Division:	44 - Championship Golf Carts
Budget Year:	2020
Finance Option:	Lease Eligible
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description
 The Championship Golf Course utilizes a fleet of 80 electric carts as part of its resort level of service. The cart specifications and replacement cycle are designed to have them in highly reliable service condition with higher end amenities. The last several fleets have included GPS units that include distance and other course information. Given the nature of the specifications, the fleets has typically be acquired from Club Car. For several replacement cycles these were acquired through operating leases and turned over every 4 or 5 years depending on condition, primarily the batteries.

Project Internal Staff
 Delivery and setup of the fleet is supported by the District Fleet and golf course professional staff.
 Ongoing maintenance is done by fleet. Day to day cleaning and recharging is done by golf staff.

Project Justification
 The current fleet of 80 carts was purchased in April 2017. The battery life is expected to be 5 years with proper care and recharging. We have seen varied success for battery life depending on the amount of usage. The mountain setting combined with multiple uses in a day can reduce the life expectancy on the batteries. For planning purposes on the carts we will use the four year replacement cycle and monitor condition each year. For the GPS units we will use a cycle of 8 years. The State of NV and the Governmental Accounting Standards Board plan to make lease accounting to be virtually the same as outright purchase beginning in 2020. Therefore we will include this replacement as if it is a purchase. The Data Sheet also assumes the first replacement will include similar GPS and display screen as our currently in service.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
80 cart fleet Cost	378,000	0	378,000
Year Total	378,000	0	378,000
2026			
80 Cart Fleet Replacement	454,000	0	454,000
GPS	166,000	0	166,000
Year Total	620,000	0	620,000
2029			
80 cart fleet Cost	545,000	0	545,000
Year Total	545,000	0	545,000
	1,543,000	0	1,543,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Oct 1, 2020	Mar 31, 2021	Director of Golf	



Project Summary

Project Number:	3142LE1722
Title:	2001 Shattertine Aerifier #500
Project Type:	F - Rolling Stock
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of regular use equipment on a scheduled cycle ranging from five (5) to ten (15) years to meet turf maintenance standards at the District's Golf Courses. The equipment replacement is a vital link in assuring quality turf and grounds condition throughout the District. This aerifier is on a 10-Year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.
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Project Internal Staff	
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Project Justification	This aerifier is vital for a well maintained Golf operation and necessary to ensure quality turf conditions at both courses. This equipment was moved back from its scheduled replacement date of 10-years to 14-years. The final replacement date is subject to accrued maintenance cost, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
2001 Shattertine Aerifier	8,000	0	8,000
Year Total	8,000	0	8,000
	8,000	0	8,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2023	Jun 30, 2024	Fleet Superintendent	



Project Summary

Project Number:	3142LE1733
Title:	2005 Carryall Club Car #564
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Carryall (#564): The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment around the courses. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It is equipped with a dump bed for the release or spreading of material. Presently it is on a 8-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This Club Car Carryall is vital to the successful operation of the Golf Courses operation. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Carryall Club Car	11,000	0	11,000	
Year Total	11,000	0	11,000	
2032				
Carryall Club Car	12,000	0	12,000	
Year Total	12,000	0	12,000	
	23,000	0	23,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2024	Jun 30, 2025	Fleet Superintendent	



Project Summary

Project Number:	3142LE1734
Title:	2005 Carryall Club Car #565
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Carryall (#565): The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment around the courses. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It is equipped with a dump bed for the release or spreading of material. Presently it is on a 8-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This Club Car Carryall is vital to the successful operation of the Golf Courses operation. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Carryall Club Car	11,000	0	11,000	
Year Total	11,000	0	11,000	
2032				
Carryall Club Car	12,000	0	12,000	
Year Total	12,000	0	12,000	
	23,000	0	23,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2024	Jun 30, 2025	Fleet Superintendent	



Project Summary

Project Number:	3142LE1735
Title:	2005 Carryall Club Car #566
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>Replace Carryall (#566): The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment around the courses. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It is equipped with a dump bed for the release or spreading of material. Presently it is on a 8-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	This Club Car Carryall is vital to the successful operation of the Golf Courses operation. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.
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Forecast																																	
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2020</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Carryall Club Car</td> <td>11,000</td> <td>0</td> <td>11,000</td> </tr> <tr> <td>Year Total</td> <td>11,000</td> <td>0</td> <td>11,000</td> </tr> <tr> <td>2032</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Carryall Club Car</td> <td>12,000</td> <td>0</td> <td>12,000</td> </tr> <tr> <td>Year Total</td> <td>12,000</td> <td>0</td> <td>12,000</td> </tr> <tr> <td></td> <td>23,000</td> <td>0</td> <td>23,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2020				Carryall Club Car	11,000	0	11,000	Year Total	11,000	0	11,000	2032				Carryall Club Car	12,000	0	12,000	Year Total	12,000	0	12,000		23,000	0	23,000	
Budget Year	Total Expense	Total Revenue	Difference																														
2020																																	
Carryall Club Car	11,000	0	11,000																														
Year Total	11,000	0	11,000																														
2032																																	
Carryall Club Car	12,000	0	12,000																														
Year Total	12,000	0	12,000																														
	23,000	0	23,000																														

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2024	Jun 30, 2025	Fleet Superintendent	



Project Summary

Project Number:	3142LE1736
Title:	2005 Carryall Club Car #567
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Carryall (#567): The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment around the courses. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It is equipped with a dump bed for the release or spreading of material. Presently it is on a 8-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This Club Car Carryall is vital to the successful operation of the Golf Courses operation. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Carryall Club Car	11,000	0	11,000	
Year Total	11,000	0	11,000	
2032				
Carryall Club Car	12,000	0	12,000	
Year Total	12,000	0	12,000	
	23,000	0	23,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2024	Jun 30, 2025	Fleet Superintendent	



Project Summary

Project Number:	3142LE1737
Title:	2006 Carryall Club Car #589
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Carryall (#589): The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment around the courses. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It is equipped with a dump bed for the release or spreading of material. Presently it is on a 8-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This Club Car Carryall is vital to the successful operation of the Golf Courses operation. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Carryall Club Car	12,000	0	12,000	
Year Total	12,000	0	12,000	
2033				
Carryall Club Car	12,000	0	12,000	
Year Total	12,000	0	12,000	
	24,000	0	24,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Jun 30, 2022	Fleet Superintendent	



Project Summary

Project Number:	3142LE1738
Title:	2006 Carryall Club Car #590
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Carryall (#590): The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment around the courses. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It is equipped with a dump bed for the release or spreading of material. Presently it is on a 8-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This Club Car Carryall is vital to the successful operation of the Golf Courses operation. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Carryall Club Car	12,000	0	12,000	
Year Total	12,000	0	12,000	
2033				
Carryall Club Car	12,000	0	12,000	
Year Total	12,000	0	12,000	
	24,000	0	24,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Jun 30, 2022	Fleet Superintendent	



Project Summary

Project Number:	3142LE1739
Title:	2006 Carryall Club Car #591
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description

Replace Carryall (#591): The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment around the courses. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It is equipped with a dump bed for the release or spreading of material. Presently it is on a 8-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.

Project Internal Staff

Fleet Maintenance Staff will manage this project

Project Justification

This Club Car Carryall is vital to the successful operation of the Golf Courses operation. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.

Forecast

Budget Year	Total Expense	Total Revenue	Difference
2021			
Carryall Club Car	12,000	0	12,000
Year Total	12,000	0	12,000
2033			
Carryall Club Car	12,000	0	12,000
Year Total	12,000	0	12,000
	24,000	0	24,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Jun 30, 2022	Fleet Superintendent	



Project Summary

Project Number:	3142LE1741
Title:	2016 Bar Cart #724
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace F&B car cart #724. The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment around the courses. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It is equipped with a dump bed for the release or spreading of material. Presently it is on a 8-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This cart is utilized by Championship golf course in their daily operation during the operating season for providing food and beverage services to customers on the courses. Equipment manufacturers' recommendation is replacement of this equipment approximately every five years. However, if these carts are still meeting golf staff requirements and maintenance repair costs continue to be low, these purchases will be moved back in the CIP.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Replace Bar Cart	29,000	0	29,000	
Year Total	29,000	0	29,000	
2028				
Replace Bar Cart	34,000	0	34,000	
Year Total	34,000	0	34,000	
	63,000	0	63,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Feb 1, 2021	Apr 30, 2021	Fleet Superintendent	



Project Summary

Project Number: 3142LE1742
Title: 2016 Bar Cart #725
Project Type: F - Rolling Stock
Division: 42 - Championship Maintenance
Budget Year: 2020
Finance Option:
Asset Type: LE - Light Duty Service Equipment
Active: Yes

Project Description				
<p>Replace F&B car cart #725. The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment around the courses. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It is equipped with a dump bed for the release or spreading of material. Presently it is on a 8-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This cart is utilized by Championship Golf course in their daily operation during the operating season for providing food and beverage services to customers on the courses. Equipment manufacturers' recommendation is replacement of this equipment approximately every five years. However, if these carts are still meeting golf staff requirements and maintenance repair costs continue to be low, these purchases will be moved back in the CIP.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Replace Bar Cart	29,000	0	29,000	
Year Total	29,000	0	29,000	
2028				
Replace Bar Cart	34,000	0	34,000	
Year Total	34,000	0	34,000	
	63,000	0	63,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Feb 1, 2021	Apr 30, 2021	Fleet Superintendent	



Project Summary

Project Number:	3142LE1743
Title:	2017 Toro Sand Pro 3020 #744
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
This is a comprehensive program to purchase a replacement sand rake for the Championship Golf Course. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. Specifically this sand rake is utilized at Championship Golf for the daily grooming of the sand traps around the course. This equipment is on a 7-year replacement schedule, subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This Toro Sand Pro sand rake is vital to the successful operation of the Championship Golf Course. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2024					
Toro Sand Pro 3020	22,000	0	22,000		
Year Total	22,000	0	22,000		
	22,000	0	22,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2013			Fleet Superintendent		



Project Summary

Project Number:	3142LE1745
Title:	2011 Toro 3500D Mower #649
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>Replace Toro 3500D Trim mower (#649): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This mower is required to meet turf maintenance standards and is a vital link in assuring quality turf and playing conditions at the Mountain Golf Course. Specifically this mower will be utilized for mowing the areas around the greens and tee boxes. Presently this mower is on a 7-years replacement schedule.</p>
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Project Internal Staff	Fleet Maintenance Staff
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Project Justification	<p>This mower is critical to the Golf operation for maintaining a quality cut around the Mountain Golf course greens and tee boxes. The mower replacement was moved back in the CIP replacement program from 7-years to 9-years and will have an accumulated usage of over 3250 hours at the time of replacement. History tells us that after this equipment type reaches 3000 hours of usage we may expect increased maintenance cost, elevated down time and a high probably of component failure. The final replacement date was determined by the accumulated equipment hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
2001 JD 2653 Trim Mower	43,500	0	43,500
Year Total	43,500	0	43,500
2032			
2001 JD 2653 Trim Mower	45,000	0	45,000
Year Total	45,000	0	45,000
	88,500	0	88,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Feb 1, 2017	Apr 1, 2017	Fleet Superintendent	



Project Summary

Project Number:	3142LE1746
Title:	2012 JD 8500 Fairway Mower #670
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description			
This is a comprehensive program to purchase replacement equipment for both Golf courses. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. This fairway mower is on a 8-year replacement schedule, subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.			
Project Internal Staff			
Fleet Maintenance Staff will manage this project			
Project Justification			
This equipment is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. This mower will be replaced with a John Deere 8500 similar to our other fairway mowers. This will standardize our equipment, spare parts inventory and extra reels, already owned by golf, will be interchangeable with this mower.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Fairway Mower	92,000	0	92,000
Year Total	92,000	0	92,000
2030			
Fairway Mower	65,000	0	65,000
Year Total	65,000	0	65,000
	157,000	0	157,000
Year Identified	Start Date	Est. Completion Date	Manager
2013			Fleet Superintendent
			Project Partner



Project Summary

Project Number:	3142LE1747
Title:	2011 Toro Groundskeeper 4000D #650
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>This is a comprehensive program to purchase replacement equipment for both Golf courses. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting turf maintenance standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. This rough mower is on a 6-year replacement schedule, subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.</p>
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Project Internal Staff	<p>Fleet Maintenance Staff will manage this project</p>
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Project Justification	<p>History tells us that after this equipment type reaches 3000 hours of usage we may expect increased maintenance cost, elevated down time and a high probability of component failure. This equipment is a vital link in meeting turf maintenance standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Toro Groundskeeper Mower	50,000	0	50,000
Year Total	50,000	0	50,000
2029			
Toro Groundskeeper Mower	60,000	0	60,000
Year Total	60,000	0	60,000
	110,000	0	110,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Feb 1, 2021	Apr 1, 2021	Fleet Superintendent	



Project Summary

Project Number:	3142LE1748
Title:	2015 Toro Greensmaster 1600 #711
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description			
Replace Toro Greens Master 1600 mower (#711): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This specialty reel mower is utilized daily to mow the greens collar areas at both the Championship and Mountain Golf Courses. This equipment is required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently this mower is on a 8-year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.			
Project Internal Staff			
Fleet Maintenance Staff will manage this project			
Project Justification			
This mower is critical to the Championship and Mountain Golf Courses for mowing the collar areas around the putting greens. Required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. The final replacement date is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Greensmaster 1600	10,000	0	10,000
Year Total	10,000	0	10,000
2024			
Greensmaster 1600	11,300	0	11,300
Year Total	11,300	0	11,300
	21,300	0	21,300
Year Identified	Start Date	Est. Completion Date	Manager
2012			Fleet Superintendent
			Project Partner



Project Summary

Project Number:	3142LE1749
Title:	2015 Toro Greensmaster 1600 #712
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description			
<p>Replace Toro Greens Master 1600 mower (#712): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This specialty reel mower is utilized daily to mow the greens collar areas at both the Championship and Mountain Golf Courses. This equipment is required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently this mower is on a 8-year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>			
Project Internal Staff			
Fleet Maintenance Staff will manage this project			
Project Justification			
<p>This mower is critical to the Championship and Mountain Golf Courses for mowing the collar areas around the putting greens. Required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. The final replacement date is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Greensmaster 1600	10,000	0	10,000
Year Total	10,000	0	10,000
2024			
Greensmaster 1600	11,300	0	11,300
Year Total	11,300	0	11,300
	21,300	0	21,300
Year Identified	Start Date	Est. Completion Date	Manager
2012			Fleet Superintendent
			Project Partner



Project Summary

Project Number:	3142LE1750
Title:	2013 JD 3235 Fairway Mower #685
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
This is a comprehensive program to purchase replacement equipment for both Golf courses. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. This fairway mower is on a 8-year replacement schedule, subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This equipment is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2022					
Fairway Mower	92,000	0	92,000		
Year Total	92,000	0	92,000		
	92,000	0	92,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Jul 1, 2021	Jun 30, 2022	Fleet Superintendent		



Project Summary

Project Number:	3142LE1751
Title:	2004 Toro Greensmaster 1600 #549
Project Type:	F - Rolling Stock
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Toro Greens Master 1600 mower (#549): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This specialty reel mower is utilized daily to mow the greens collar areas at both the Championship and Mountain Golf Courses. This equipment is required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently this mower is on a 8-year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Project Internal Staff				
Project Justification				
<p>This mower is critical to the Championship and Mountain Golf Courses for mowing the collar areas around the putting greens. Required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. The mower replacement was moved back in the CIP replacement program from 8-years to 14-years. The final replacement date is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
2004 Toro Greensmaster 1600	11,300	0	11,300	
Year Total	11,300	0	11,300	
	11,300	0	11,300	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2018	Jun 30, 2019	Fleet Superintendent	



Project Summary

Project Number:	3142LE1752
Title:	2005 Toro Greensmaster 1600 #574
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>Replace Toro Greens Master 1600 mower (#574): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This specialty reel mower is utilized daily to mow the greens collar areas at both the Championship and Mountain Golf Courses. This equipment is required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently this mower is on a 8-year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>
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Project Internal Staff	
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Project Justification	<p>This mower is critical to the Championship and Mountain Golf Courses for mowing the collar areas around the putting greens. Required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. The mower replacement was moved back in the CIP replacement program from 8-years to 15-years. The final replacement date is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
2005 Toro Greensmaster 1600	11,300	0	11,300
Year Total	11,300	0	11,300
	11,300	0	11,300

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2020	Jun 30, 2021	Fleet Superintendent	



Project Summary

Project Number:	3142LE1753
Title:	2011 Toro Greensmaster 1000 #652
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Toro Greens Master 1000 mower (#652): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This specialty reel mower is utilized daily to mow the putting greens at the Championship Golf Course. This equipment is required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently this mower is on a 6-year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This mower is critical for mowing the putting greens at the Championship Golf Course. Required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently it is on a 6-year replacement schedule, the final replacement date is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Toro Greensmaster 1000	10,400	0	10,400	
Year Total	10,400	0	10,400	
	10,400	0	10,400	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jan 31, 2019	Mar 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	3142LE1754
Title:	2011 Toro Greensmaster 1000 #653
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Toro Greens Master 1000 mower (#653): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This specialty reel mower is utilized daily to mow the putting greens at the Championship Golf Course. This equipment is required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently this mower is on a 6-year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This mower is critical for mowing the putting greens at the Championship Golf Course. Required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently it is on a 6-year replacement schedule, the final replacement date is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Toro Greensmaster 1000	10,400	0	10,400	
Year Total	10,400	0	10,400	
	10,400	0	10,400	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jan 1, 2019	Mar 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	3142LE1755
Title:	2011 Toro Greensmaster 1000 #654
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Toro Greens Master 1000 mower (#654): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This specialty reel mower is utilized daily to mow the putting greens at the Championship Golf Course. This equipment is required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently this mower is on a 6-year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This mower is critical for mowing the putting greens at the Championship Golf Course. Required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently it is on a 6-year replacement schedule, the final replacement date is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Toro Greensmaster 1000	10,400	0	10,400	
Year Total	10,400	0	10,400	
	10,400	0	10,400	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jan 31, 2019	Mar 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	3142LE1756
Title:	2011 Toro Greensmaster 1000 #655
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Toro Greens Master 1000 mower (#655): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This specialty reel mower is utilized daily to mow the putting greens at the Championship Golf Course. This equipment is required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently this mower is on a 6-year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This mower is critical for mowing the putting greens at the Championship Golf Course. Required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently it is on a 6-year replacement schedule, the final replacement date is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Toro Greensmaster 1000	10,400	0	10,400	
Year Total	10,400	0	10,400	
2030				
Toro Greensmaster 1000	12,000	0	12,000	
Year Total	12,000	0	12,000	
	22,400	0	22,400	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jan 31, 2019	Mar 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	3142LE1757
Title:	2011 Toro Greensmaster 1000 #656
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Toro Greens Master 1000 mower (#656): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This specialty reel mower is utilized daily to mow the putting greens at the Championship Golf Course. This equipment is required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently this mower is on a 6-year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This mower is critical for mowing the putting greens at the Championship Golf Course. Required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently it is on a 6-year replacement schedule, the final replacement date is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Toro Greensmaster 1000	10,400	0	10,400	
Year Total	10,400	0	10,400	
2030				
Toro Greensmaster 1000	12,000	0	12,000	
Year Total	12,000	0	12,000	
	22,400	0	22,400	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jan 31, 2019	Mar 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	3142LE1758
Title:	2011 Toro Greensmaster 1000 #657
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Toro Greens Master 1000 mower (#657): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This specialty reel mower is utilized daily to mow the putting greens at the Championship Golf Course. This equipment is required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently this mower is on a 6-year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This mower is critical for mowing the putting greens at the Championship Golf Course. Required to meet turf maintenance standards and is a vital link in delivering a quality product and assuring consistent playing conditions. Presently it is on a 6-year replacement schedule, the final replacement date is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Toro Greensmaster 1000	10,400	0	10,400	
Year Total	10,400	0	10,400	
	10,400	0	10,400	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jan 31, 2019	Mar 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	3142LE1759
Title:	2014 3500D Toro Rotary Mower #693
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Toro 3500D Rotary Mower (#693): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This mower is required to meet turf maintenance standards and is a vital link in assuring quality turf and playing condition at the Championship Golf Course. Specifically this mower will be utilized for mowing the areas around the greens and tee boxes. Presently this mower is on a 6-years replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This mower is critical to the Golf operation for maintaining a quality cut around the Championship Golf course greens and tee boxes. The mower is presently on a 6-year replacement schedule. The final replacement date will be determined by the accumulated equipment hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Toro Rotary Mower	38,000	0	38,000	
Year Total	38,000	0	38,000	
	38,000	0	38,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Sep 30, 2021	Fleet Superintendent	



Project Summary

Project Number:	3142LE1760
Title:	Replacement of 2010 John Deere 8500 #641
Project Type:	F - Rolling Stock
Division:	42 - Championship Maintenance
Budget Year:	2020
Finance Option:	Lease Eligible
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>This is a comprehensive program to purchase replacement equipment for both courses. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. This fairway mower is on a 8-year replacement schedule, subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.</p> <p>This new mower will be used at the Championship Course, and the oldest current Championship Course fairway mower will become the new Mountain Course fairway mower.</p>
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.
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Forecast	
Budget Year	Total Expense Total Revenue Difference
2020	
John Deere 8500	92,000 0 92,000
Year Total	92,000 0 92,000
2030	
John Deere 8500	100,000 0 100,000
Year Total	100,000 0 100,000
	192,000 0 192,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3143GC1202
Title:	Driving Range Improvements
Project Type:	E - Capital Maintenance
Division:	43 - Driving Range
Budget Year:	2020
Finance Option:	
Asset Type:	GC - Golf Course Improvements
Active:	Yes

Project Description				
This is an ongoing program to make improvements to the driving range features and infrastructure. This includes replacement of or improvements to the hitting surface areas, range tee dividers, and bag stands.				
Project Internal Staff				
Golf Staff will be involved in the acquisition and installation.				
Project Justification				
The equipment replacement program is an ongoing program designed to satisfy the needs of replacing daily use equipment. The program is a vital link in assuring a top quality product for the use of our customers. Our driving range is very heavily used by our customers.				
Hitting surfaces wear out over time and need to be replaced to ensure a top experience for our players. Mats were last purchased in 2016.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Hitting Surface,dividers,stands	31,000	0	31,000	
Year Total	31,000	0	31,000	
2024				
Hitting Surface,dividers,stands	34,000	0	34,000	
Year Total	34,000	0	34,000	
2028				
Improvement between mats and cart path	35,000	0	35,000	
Year Total	35,000	0	35,000	
	100,000	0	100,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Grounds Superintendent Golf Courses	



Project Summary

Project Number:	3144FF1702
Title:	Replace Icemaker Championship Golf Course Cart Barn
Project Type:	G - Equipment & Software
Division:	44 - Championship Golf Carts
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description				
The ice maker located in the Champ Golf Cart Barn is eight years old. It is used to fill the coolers used on all the golf carts. Based on estimated useful lives and knowledge of the performance of the current equipment, a replacement schedule has been developed for the equipment. It has been determined that replacement should be scheduled every five years				
Project Internal Staff				
Buildings Maintenance Staff				
Project Justification				
The equipment presented is a replacement of the same item as presently in service. There are no changes to capacities. However, properly performing equipment is essential to maintaining health and safety standards as well as serving customers timely and with a quality product.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Contingency	970	0	970	
Icemaker	9,700	0	9,700	
Internal Services	310	0	310	
Year Total	10,980	0	10,980	
2027				
Contingency	1,060	0	1,060	
Icemaker	10,600	0	10,600	
Internal Services	310	0	310	
Year Total	11,970	0	11,970	
	22,950	0	22,950	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	Jul 1, 2016	Sep 1, 2016	Buildings Superintendent	



Project Summary

Project Number:	3153BD2001
Title:	Recoat Chateau F&B Grill and Catering Kitchen Floors
Project Type:	E - Capital Maintenance
Division:	53 - Food & Beverage - Champ
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Resurface and coat Chateau Grill and Catering F&B kitchen floor				
Project Internal Staff				
Buildings Maintenance Division				
Project Justification				
<p>The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our employee and guest experience. This project is designed to maintain the value of the Chateau assets.</p> <p>The Chateau F&B Grill and Catering kitchen floors were recoated in 2016/17. Normal wear has begun to degrade the initial coating. The District is currently standardizing the type of floor coating used in high traffic area such as kitchens bathrooms and decks/patios. A neogard epoxy compound is applied which adheres to the floor and wears much better than other products that have been used. It maintains the integrity of the floor, handles use much more efficiently and allows years between a floor recoat.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Contingency	5,000	0	5,000	
Internal Services	7,200	0	7,200	
Recoat Floor	25,000	0	25,000	
Year Total	37,200	0	37,200	
2027				
Contingency	7,000	0	7,000	
Internal Services	8,500	0	8,500	
Recoat Floor	30,000	0	30,000	
Year Total	45,500	0	45,500	
2028				
Internal Services	950	0	950	
Year Total	950	0	950	
2031				
Contingency	7,000	0	7,000	
Internal Services	10,000	0	10,000	
Recoat Floor	35,000	0	35,000	
Year Total	52,000	0	52,000	
	135,650	0	135,650	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016			Buildings Superintendent	



Project Summary

Project Number:	3153FF1204
Title:	Champ Grille Kitchen Equipment
Project Type:	G - Equipment & Software
Division:	53 - Food & Beverage - Champ
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description				
Staff has made an assessment of each major element of the Kitchen equipment. Based on estimated useful lives and knowledge of the performance of the current equipment, a replacement schedule has been developed and restated below.				
Project Internal Staff				
Chef will receive equipment, set up and install with delivery person.				
Project Justification				
Items presented are replacement of the same item as presently in service. There are no changes to capacities. However, properly performing equipment is essential to maintaining health and safety standards as well as serving customers timely and with a quality product.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
6 burner stove with oven	6,300	0	6,300	
Dishwashing Machine	15,000	0	15,000	
Double Fryer	6,300	0	6,300	
Griddle with oven	6,300	0	6,300	
Grill with oven	6,300	0	6,300	
Slicer	6,000	0	6,000	
Year Total	46,200	0	46,200	
2030				
Alto Shaam	8,400	0	8,400	
Year Total	8,400	0	8,400	
	54,600	0	54,600	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Food and Beverage Director	



Project Summary

Project Number:	3197HV1749
Title:	1997 1-Ton Dump Truck #419
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	HV - Heavy Duty Vehicles
Active:	Yes

Project Description				
This is the scheduled replacement of the Golf courses 1-ton dump truck. This vehicle is utilized daily during summer months for hauling sod, fill dirt, top soil, green waste and equipment necessary for the maintenance of both Championship and Mountain Golf Courses. Vehicles are on a 10-year replacement schedule but will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project This project will transfer Public Works Dump Truck #542 to Golf				
Project Justification				
This dump truck is utilized by both courses to haul material and debris. The replacement of this vehicle has been moved back in the CIP replacement schedule from 10-years to 21-years. This dump truck due to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition, and repair parts availability has reached the end of its useful service life and is no longer reliable and should be replaced.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Replace 1-Ton Dump Truck	5,000	0	5,000	
Year Total	5,000	0	5,000	
2024				
Replace 1-Ton Dump Truck	44,000	0	44,000	
Year Total	44,000	0	44,000	
2028				
Replace 1-Ton Dump Truck	50,000	0	50,000	
Year Total	50,000	0	50,000	
	99,000	0	99,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Nov 1, 2019	Jan 31, 2020	Fleet Superintendent	



Project Summary

Project Number:	3197LE1724
Title:	2000 Toro Spreader #462
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
Replace Toro Spreader (#462): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This equipment is used at both Golf Courses to apply sand and fertilizer (top dress) to Tee Boxes.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This equipment is critical to the Golf operation for top dressing of Tee Boxes. This piece of equipment is pulled behind a tractor and is hydraulically driven off the auxiliary system therefore no hour meter is utilized. The final replacement date is subject to accumulated usage, accrued maintenance cost, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2023				
Toro Spreader	13,700	0	13,700	
Year Total	13,700	0	13,700	
2027				
Toro Spreader	15,000	0	15,000	
Year Total	15,000	0	15,000	
2035				
Toro Spreader	17,500	0	17,500	
Year Total	17,500	0	17,500	
	46,200	0	46,200	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Feb 1, 2023	Jun 1, 2023	Fleet Superintendent	



Project Summary

Project Number:	3197LE1726
Title:	2001 Spiker/Seeder #477
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
Replace Spiker/Seeder (#477): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This equipment is used to seed areas on fairways and tee boxes.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This equipment is critical to the Golf operation for reseeding areas of fairways and tee boxes at both courses. This unit is towed behind a tractor or John Deere Gator maintenance vehicle and therefore has no hour meter. This equipment replacement has been moved back in the CIP replacement program multiple times. The final replacement date is subject to accumulated usage, accrued maintenance cost, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2023				
Spiker/Seeder	12,000	0	12,000	
Year Total	12,000	0	12,000	
2029				
Spiker/Seeder	12,500	0	12,500	
Year Total	12,500	0	12,500	
	24,500	0	24,500	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Feb 1, 2019	Jun 1, 2023	Fleet Superintendent	



Project Summary

Project Number:	3197LE1728
Title:	2013 Toro Top Dresser #686
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
Replace Toro Top Dresser (#686): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This equipment is used at both Golf Courses to apply sand and fertilizer (top dress) to putting greens and tee boxes. Presently this equipment is on a 8-years replacement schedule.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This equipment is critical to the Golf operation for top dressing of putting greens and tee boxes. This piece of equipment is mounted to a John Deere Gator Maintenance vehicle and is hydraulically driven off the auxiliary system therefore no hour meter is utilized. The final replacement date is subject to accumulated usage, accrued maintenance cost, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2022					
Top Dresser	13,000	0	13,000		
Year Total	13,000	0	13,000		
	13,000	0	13,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012			Fleet Superintendent		



Project Summary

Project Number:	3197LE1729
Title:	2006 Toro 1250 Spray Rig #586
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
<p>This is a comprehensive program to purchase replacement equipment for both Golf courses. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. Specifically this spray rig is utilized at both the Championship and Mountain Golf Courses for spraying fertilizers on the putting greens, this spray rig is on a 8-year replacement schedule, subject to maintenance cost, visual inspection and overall condition.</p>					
Project Internal Staff					
Project Justification					
<p>This spray rig is on a 8-year scheduled replacement date. This equipment is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2024					
2006 Toro 1250 Spray Rig	35,000	0	35,000		
Year Total	35,000	0	35,000		
	35,000	0	35,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Jul 1, 2018	Jun 30, 2019	Fleet Superintendent		



Project Summary

Project Number:	3197LE1731
Title:	2008 Planetair HD50 #616
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>Replace Planetair HD50 (#616): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This equipment is used to aerate tees and putting greens at both golf courses. Presently this unit is on a 6-year replacement schedule.</p>
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Project Internal Staff	<p>Fleet Maintenance Staff will manage this project</p>
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Project Justification	<p>This equipment is critical to the Golf operation for maintaining the quality playing surface of the putting greens and tee boxes at both golf courses. This unit is used to aerate the soil of putting greens and tee boxes during the playing season with minimal turf damage and without causing any disturbance of playing customers. This equipment is in the CIP replacement program schedule for 6-years. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Planetair HD50	35,000	0	35,000
Year Total	35,000	0	35,000
2024			
Planetair HD50	35,000	0	35,000
Year Total	35,000	0	35,000
2030			
Planetair HD50	37,500	0	37,500
Year Total	37,500	0	37,500
2036			
Planetair HD50	40,000	0	40,000
Year Total	40,000	0	40,000
	147,500	0	147,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3197LE1732
Title:	2015 John Deere 1500 Fairway Aerator #716
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
This is a comprehensive program to purchase replacement equipment for both Golf courses. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. Specifically utilized at both the Championship and Mountain Golf Courses for aerating the fairways, this aerator is on a 6-year replacement schedule, subject to maintenance cost, visual inspection and overall condition.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
Presently this aerator is on a 6-year replacement schedule. This equipment is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2020					
Toro Greens Aerator	27,000	0	27,000		
Year Total	27,000	0	27,000		
2025					
Toro Greens Aerator	32,500	0	32,500		
Year Total	32,500	0	32,500		
2029					
Toro Greens Aerator	35,000	0	35,000		
Year Total	35,000	0	35,000		
2035					
Toro Greens Aerator	37,500	0	37,500		
Year Total	37,500	0	37,500		
	132,000	0	132,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012			Fleet Superintendent		



Project Summary

Project Number:	3197LE1733
Title:	2008 JD TC125 Core Harvester #621
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description

This John Deere core harvester is shared by both golf courses for picking up the cores left after the aeration process has been completed. This equipment is specifically utilized on the fairways in conjunction with one of the Gator grounds maintenance vehicles. Presently this equipment is on a 10-year replacement schedule, however the replacement of this unit will be deferred if indicators reveal that increased maintenance cost or elevated downtime will not occur by postponing the replacement date.

Project Internal Staff

Fleet Maintenance Staff will manage this project

Project Justification

This equipment is on a 10-year replacement schedule. The final replacement date is subject to accrued maintenance cost, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Core Harvester	12,400	0	12,400
Year Total	12,400	0	12,400
2029			
Core Harvester	13,000	0	13,000
Year Total	13,000	0	13,000
	25,400	0	25,400

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3197LE1734
Title:	2008 Bandit Brush Chipper #625
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description
 Replace Bandit Brush Chipper (#625): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This Brush Chipper is utilized by both Championship and Mountain Golf courses and the Parks Division to dispose of green waste and create chips wood chips for ground cover. Presently this equipment is on a 8-years replacement schedule.

Project Internal Staff
 Fleet Maintenance Staff will manage this project

Project Justification
 This equipment is critical to the Golf and Parks operations for disposing and managing green waste. This equipment is in the CIP replacement program schedule for 8-years. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Brush Chipper	42,000	0	42,000
Year Total	42,000	0	42,000
2030			
Brush Chipper	45,000	0	45,000
Year Total	45,000	0	45,000
	87,000	0	87,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2022	Nov 30, 2022	Fleet Superintendent	



Project Summary

Project Number:	3197LE1735
Title:	2017 TORO PROCORE 864 AERATOR #747
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
This is a comprehensive program to purchase replacement equipment for both courses. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. The aeration program is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. Specifically this Aerator is utilized extensively during spring pre-season and fall post season for aerating the fairways at both the Championship and Mountain Golf Courses. This Aercore 1500 is on a 6 -year replacement schedule, subject to accrued maintenance cost, visual inspection and overall condition.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This Aercore 1500 is essential equipment to the successful operation at the Championship and Mountain Golf Courses. Aerators receive extreme levels of hard use and wear due to the nature of the job they accomplish and require constant maintenance and repair to keep them functioning. This unit experienced major structural failure two years ago, Fleet successfully made repairs and extended this equipment's service life but since then accumulative operational stress is now requiring the replacement of this aerator.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2023					
Aercore Aerator	15,400	0	15,400		
Year Total	15,400	0	15,400		
	15,400	0	15,400		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012			Fleet Superintendent		



Project Summary

Project Number: 3197LE1740
Title: 2005 John Deere Pro Gator #569
Project Type: F - Rolling Stock
Division: 97 - Shared Expenses
Budget Year: 2020
Finance Option:
Asset Type: LE - Light Duty Service Equipment
Active: Yes

Project Description				
<p>The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment throughout the District. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It has a high payload rating and is equipped with a dump bed for the release or spreading of material. Presently it is on a 6-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This John Deere Gator is vital to the successful operation of both the Championship and Mountain Golf Courses. This grounds maintenance vehicle was moved back in the CIP replacement program several years. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Replace Pro Gator	34,500	0	34,500	
Year Total	34,500	0	34,500	
2030				
Replace Pro Gator	34,500	0	34,500	
Year Total	34,500	0	34,500	
	69,000	0	69,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3197LE1741
Title:	2015 Greens Roller #715
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
This project is for the replacement of a self propelled greens roller and is utilized on the putting greens after mowing, top dressing or verticutting to true the greens and assure consistent playing conditions.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2020					
Greens Roller	17,000	0	17,000		
Year Total	17,000	0	17,000		
	17,000	0	17,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2015	Feb 1, 2020	Apr 30, 2020	Fleet Superintendent		



Project Summary

Project Number:	3197LE1742
Title:	2014 Vibratory Greens Roller #696
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description			
<p>This is a comprehensive program to purchase replacement equipment for both Golf courses. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. Specifically this equipment consists of a set of three vibratory rollers, attached to a Tri-Plex mower and is utilized on the putting greens after mowing, top dressing or verticutting to true the greens and assure consistent playing conditions. These rollers are on a 6-year replacement schedule, subject to accrued maintenance cost, visual inspection and overall condition.</p>			
Project Internal Staff			
Project Justification			
<p>The replacement of these vibratory rollers are on a scheduled 6-year replacement schedule and have reached the usefull life. The replacement for this equipment will be a self propelled roller and will not only replace these attachment rollers but also reduce the number of Triplex mowers used for Champ and Mountain Golf.</p>			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
2005 Vibratory Greens Rollers	17,000	0	17,000
Year Total	17,000	0	17,000
	17,000	0	17,000
Year Identified	Start Date	Est. Completion Date	Manager
2015			Fleet Superintendent
			Project Partner



Project Summary

Project Number: 3197LE1746
Title: 2004 John Deere 4410 Tractor #548
Project Type: F - Rolling Stock
Division: 97 - Shared Expenses
Budget Year: 2020
Finance Option:
Asset Type: LE - Light Duty Service Equipment
Active: Yes

Project Description

This is a comprehensive program to purchase replacement equipment for both courses. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting turf maintenance standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. This tractor is on a 10-year replacement schedule, subject to accumulated hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.

Project Internal Staff

Fleet Maintenance Staff will manage this project

Project Justification

This is the scheduled replacement for golf tractor #548, utilized by both Golf course operations. Specifically utilized for the daily maintenance activities on both the Championship and Mountain courses it is vital to their operations. In recent years we have realized a significant cost savings with increased use of attachments rather than purchasing higher costing self propelled equipments. The Golf operations and the Parks operation continue to share equipment at every opportunity, both operations have deleted separate new equipment purchases in favor of utilizing tractor powered implements, the result is a greater level of efficiency. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.

Forecast

Budget Year	Total Expense	Total Revenue	Difference
2020			
Tractor	40,000	0	40,000
Year Total	40,000	0	40,000
2028			
Tractor	37,000	0	37,000
Year Total	37,000	0	37,000
	77,000	0	77,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Feb 3, 2020	Apr 30, 2020	Fleet Superintendent	



Project Summary

Project Number:	3197LE1748
Title:	Replace Blade Grinding Equipment
Project Type:	G - Equipment & Software
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. The reel and bedknife grinders are required to sharpen all of Golf's mower equipment, numbering over 60 in count. Specifically utilized in the grinding process of the greens, fairway, trim and tri-plex mowers to ensure the quality of cut necessary to meet turf maintenance standards. This is a vital link in assuring quality turf and playing condition at both the Championship and Mountain Golf Courses. Presently this equipment is on a 7-years replacement schedule.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This reel grinder and bedknife grinders are critical to the successful operation of both golf courses. Presently this equipment is on a 7-year replacement cycle. The final replacement date is subject to accrued maintenance cost, visual inspection and overall condition. The bedknife Grinder to be replaced has exceeded its service life and has been in service for over 16 years. This machine has been moved back several years in the replacement program and no longer provides the service and reliability needed for operations and newer technology equipment will provide a more precise cutting edge and extend bedknife life				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Replace Reel Grinder	41,200	0	41,200	
Year Total	41,200	0	41,200	
2028				
Replace Reel Grinder	44,000	0	44,000	
Year Total	44,000	0	44,000	
	85,200	0	85,200	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3197LE1902
Title:	Graden Sand Injection Verticutter
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description		The Graden Sand Injection Verticutter is a machine that can verticut greens, tees, and approaches over 1" deep, as well as inject sand to fill the verticut slits at the same time.		
Project Internal Staff				
Project Justification		Greens management involves developing firm playing surfaces and maintaining a firm surface for excellent playability. This machine gives us the option to verticut deeper than we currently do, as well as saving the step of topdressing with sand afterwards since it injects the sand directly.		
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Deep Verticutter	18,500	0	18,500	
Year Total	18,500	0	18,500	
	18,500	0	18,500	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Jul 1, 2020	Sep 1, 2020	Fleet Superintendent	



Project Summary

Project Number:	3197ME1710
Title:	Maintenance Shop Crane and Equipment Lift
Project Type:	G - Equipment & Software
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	ME - Mechanical Equipment
Active:	Yes

Project Description				
This ongoing project is to replace old, worn out and outdated shop tools and equipment, and purchase new specialty tools for new model year equipment as needed. These tools and equipment are essential to maintenance and repairs of all Golf Operations rolling stock assets and the efficiency and safety of those operations.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project with support from Buildings Maintenance and Engineering				
Project Justification				
The maintenance shop at Champ Golf has one equipment lift that is used daily for maintenance and repair of equipment. With the number of pieces of equipment and as many as three mechanics needing to use the lift to perform maintenance and repair task this causes problems with efficiency, productivity, and safety to effectively perform these task. With the lack of floor space in the maintenance shop to add additional equipment lift the existing overhead crane would need to be relocated and replaced by a swinging jib crane that would reach more floor space and also increase efficiency, productivity, and safety of working on the larger pieces equipment.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020	30,000	0	30,000	
Year Total	30,000	0	30,000	
	30,000	0	30,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017			Fleet Superintendent	



Project Summary

Project Number:	3199OE1501
Title:	Championship Golf Printer Copier Replacement 955 Fairway
Project Type:	G - Equipment & Software
Division:	41 - Championship Operations
Budget Year:	2020
Finance Option:	
Asset Type:	OE - Office Equipment
Active:	Yes

Project Description	Replacement of Championship Golf large volume color/black printer copier utilized in the administrative offices. This includes the operations, programming, revenue office and other users within the Chateau. This device should be replaced every five years which is industry standard. ON average the cost of ownership increases after the fifth year as a result of increased maintenance fees. This project is only for the cost of the device and does not include the monthly maintenance charges, which is a part of the District's comprehensive maintenance plan.
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Project Internal Staff	The IT Technician oversees the maintenance and care and condition assessment of this device.
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Project Justification	The current volume printer copier averages around 15,000 images a month. It is a Xerox WorkCentre 5335 purchased in 2015. Life cycle is 1,200,000 images. At 1/1/16 the meter read was 67,500. Proposed new device will be based on industry comparison for functionality and capacity considering the best pricing we can get from state and local contracts.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020	10,000	0	10,000
Year Total	10,000	0	10,000
2025	15,000	0	15,000
Year Total	15,000	0	15,000
2030	15,000	0	15,000
Year Total	15,000	0	15,000
	40,000	0	40,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2014			Director of Golf	



Project Summary

Project Number:	3241BD1503
Title:	Mtn. Golf Course Remodel On Course Bathrooms, #6 & #13/14
Project Type:	D - Capital Improvement - Existing Facilities
Division:	41 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description

The restrooms at the Mountain Golf Course are in need of a remodel to meet the care and condition of current standards. The interior of the both the Hole #6 and Hole #13/#14 restrooms are showing the wear and tear of the many years of use and do not match the value of the golf course. All interior fixtures and finishes need to be replaced. The floors will be recoated and sealed. New exterior siding will be evaluated to be installed rather than paint, because of the existing condition of the siding and the durability and low maintenance of a replacement product.

All upgrades will be compliant with current American Disabilities Act requirements.

Project Internal Staff

Staff will supervise and inspect project.

Project Justification

The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Mountain Golf Course asset and customer service. Both restrooms currently have power supplied to them. Currently there is no heat in either restroom. This project will provide heat to make the restrooms more comfortable during the shoulder seasons and early mornings of prime season. Both restrooms receive regular customer complaints.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020	60,000	0	60,000
Year Total	60,000	0	60,000
	60,000	0	60,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Principal Engineer	



Project Summary

Project Number:	3241GC1101
Title:	Mountain Course Greens, Tees and Bunkers
Project Type:	E - Capital Maintenance
Division:	41 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	GC - Golf Course Improvements
Active:	Yes

Project Description

This an ongoing project to address the long term maintenance and rebuilding of green, tee and bunker infrastructures. The focus is projects that will impact course playability, improve agronomic conditions for healthier turf growth, address safety issues, and improve aesthetics. Tee work includes enlarging, leveling, and shaping, along with installing drainage and a sand cap before sodding the surface. Bunker work includes reshaping, installing drainage and adding new sand. Current progress anticipated as of June 2019: approximately 50% of the tees to be addressed have been completed; 85% of the bunkers have been rebuilt; and all of the bridges have been rebuilt. A new nursery green will be built to replace the current aging, contaminated nursery. The Mountain Course master plan created by Golf Course Architect Kyle Phillips in 2001 has been used as a guide for this work.

Project Internal Staff

The work is all planned and completed by in-house staff.

Project Justification

Mountain Golf Course infrastructure is aging and in need of repair and replacement. Staff has been rebuilding tees and bunkers for the past several years with excellent reviews, and continuing this work will keep the golf course as playable and enjoyable as possible for our customers. Golf industry standards established by the Allied Associations for Golf (ASCGA, GCSAA, USGA, and GCBA) state how long parts of a golf course should last. Greens are 15-30 years, tees are 15-20 years, bunker sand and drainage are 5-10 years. All golf course infrastructure is evaluated annually to determine the need and time frame for rebuilding or replacement.

Forecast

Budget Year	Total Expense	Total Revenue	Difference
2020			
Bunker Renovation	15,000	0	15,000
Nursery Green Rebuild	20,000	0	20,000
Tee Renovation	8,000	0	8,000
Year Total	43,000	0	43,000
2021			
Bunker Renovation	10,000	0	10,000
Tee Renovation	8,000	0	8,000
Year Total	18,000	0	18,000
2025			
Bunker Sand/Drainage	40,000	0	40,000
Year Total	40,000	0	40,000
2026			
Bunker Sand/Drainage	40,000	0	40,000
Year Total	40,000	0	40,000
	141,000	0	141,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Mountain Course Superintendent	



Project Summary

Project Number:	3241GC1404
Title:	Irrigation Improvements
Project Type:	E - Capital Maintenance
Division:	41 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	GC - Golf Course Improvements
Active:	Yes

Project Description	Replacement of Mountain Golf Course irrigation components as well as additions and modifications to the existing system to enhance the efficiency of water application. This includes in-ground components such as sprinkler heads, wiring, mainline and lateral pipes isolation valves, and quick coupler valves, as well as out of ground components such as field satellites, weather station, radio controls, and central control computer system.
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Project Internal Staff	Golf Maintenance Staff will identify and install new components.
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Project Justification	Golf course irrigation component upgrades are necessary to address normal wear and tear and to continue to improve efficiency of water management. Current technology available will allow us to optimize the performance of the system. The hardware and software used to run the central control computer, sprinkler heads, and field satellites that communicate with the central control are all included. Recommended life cycles according to the Allied Associations of Golf (ASGCA, GCSAA, USGA, and GCBAA): Central control system - computer hardware every 5 years; software as upgrades from the manufacturer (Toro) are introduced. Field satellites – approximately every 10-15 years the technology changes enough to look at upgrading the satellites. Sprinklers – on average every 10-15 years a complete head replacement program should be considered. Piping system – a properly designed, installed, and maintained pipe system in this climate should last a minimum of 25 -30 years. The Mountain Course irrigation system was installed in 1998.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Field satellite replacement	8,000	0	8,000
Hardware, Software upgrades	11,000	0	11,000
Sprinkler head replacement	20,000	0	20,000
Year Total	39,000	0	39,000
2023			
Field satellite replacement	30,000	0	30,000
Year Total	30,000	0	30,000
2025			
Hardware, Software upgrades	12,000	0	12,000
Year Total	12,000	0	12,000
2028			
Pipe system replacement	700,000	0	700,000
Year Total	700,000	0	700,000
	781,000	0	781,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
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2012			Mountain Course Superintendent	
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Project Summary

Project Number:	3241GC1502
Title:	Wash Pad Improvements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	41 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	GC - Golf Course Improvements
Active:	Yes

Project Description

Golf course wash water recycle systems with wash bays and pads. These facilities are self contained and recycle the wash water used on equipment. This prevents any contaminants from entering groundwater or drainage systems in the vicinity of our current wash facilities. The project also includes reconfiguration of the wash pads so that more than one person at a time can clean equipment.

Project Internal Staff

Golf staff will work with Engineering to research the best unit for our conditions

Project Justification

Environmental issues and restrictions are increasing in the golf course industry. These cleaning systems conserve water and also go a long way in showing our commitment to water quality issues in the Tahoe basin. They also provide a safer, less contaminated environment for employees when washing equipment. The new systems are very efficient and would increase overall productivity by spending less time at the wash area. The current systems only allow for one staff member at a time to wash equipment, requiring other members to stand and wait, which is very inefficient. The current systems also have the potential for contamination of creeks downstream due to the setup now in place.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Internal Services	5,000	0	5,000
Wash System	65,000	0	65,000
Year Total	70,000	0	70,000
	70,000	0	70,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Principal Engineer	



Project Summary

Project Number:	3241GC1802
Title:	Mountain Course Clubhouse and Maintenance Building Water Service Line Replacement
Project Type:	D - Capital Improvement - Existing Facilities
Division:	41 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	GC - Golf Course Improvements
Active:	Yes

Project Description					
Replace failing PVC service lines from the utility watermain point of connection to both the Clubhouse and Maintenance Building					
Project Internal Staff					
Engineering will perform Design, Engineering, Bidding, Contract Administration and Inspection tasks. Outside contractor to perform the underground work. IVGID buildings dept. to reconnect plumbing under clubhouse. IVGID Pipeline dept. resources remain available for ongoing maintenance activities and emergency response.					
Project Justification					
In November 2017 the service line serving both buildings experience a catastrophic failure and was temporarily repaired. Investigations revealed substandard glued PVC pipe serving both buildings and proximity beneath cell tower facilities. This pipe is known known to fail without warning and full replacement is recommended. Reconnection is required under the Clubhouse with work to be performed by IVGID Buildings					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2020					
Construction	55,000	0	55,000		
Internal Services	10,000	0	10,000		
Year Total	65,000	0	65,000		
	65,000	0	65,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2018			Senior Engineer		



Project Summary

Project Number:	3241LI1704
Title:	Mountain Golf Course Cart Path Retaining Walls
Project Type:	E - Capital Maintenance
Division:	42 - Mountain Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description				
Maintenance of walls and slopes supporting the Mountain Golf Course Cart Path system. The asphalt surfacing is managed under a separate CIP.				
Project Internal Staff				
Engineering Dept. to perform design, bid, contract and administration and inspection tasks. Outside engineering services will be used for structural retaining walls exceeding 4' in height.				
Project Justification				
The Mountain Golf course is in hilly terrain and the cart path system was constructed with walls and slopes above and below the path in many areas. These walls and slopes are starting to fail and need repair to shore up the cart path and asphalt pavement. Slope repairs at hole #13 were completed in 2017				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Engineering Services	5,000	0	5,000	
internal services	2,500	0	2,500	
Slope protection #12 Tee	10,000	0	10,000	
Year Total	17,500	0	17,500	
2021				
internal services	2,500	0	2,500	
Rebuild wall #10 Tee	25,000	0	25,000	
Replace wooden stair #10 Tee	10,000	0	10,000	
Year Total	37,500	0	37,500	
2022				
internal services	2,500	0	2,500	
wall/slope repairs	10,000	0	10,000	
Year Total	12,500	0	12,500	
2023				
internal services	2,500	0	2,500	
wall/slope repairs	10,000	0	10,000	
Year Total	12,500	0	12,500	
2024				
wall/slope repairs	10,000	0	10,000	
Year Total	10,000	0	10,000	
2025				
wall/slope repairs	10,000	0	10,000	
Year Total	10,000	0	10,000	
2026				
wall/slope repairs	10,000	0	10,000	
Year Total	10,000	0	10,000	
	110,000	0	110,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017			Senior Engineer	



Project Summary

Project Number:	3241LV1899
Title:	Mountain Course 58 Cart Fleet
Project Type:	F - Rolling Stock
Division:	44 - Mountain Golf Carts
Budget Year:	2020
Finance Option:	Lease Eligible
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description

The Mountain Golf Course utilizes a fleet of 58 gas carts, which facilitate use over the hilly terrain of the Course. Historically gas carts have been the only one with power enough for several of the steep climbs and the repeat use that can occur with higher volumes of play during peak summer months. The District will look to replace the existing fleet with gas carts for the 2020 season. There has always been the expectation that some day technology would develop an electric cart capable of the terrain and degree of use. With advancements in lithium battery technology, the District will look at that technology for the 2025 replacement.

Project Internal Staff

Delivery and setup of the fleet is supported by the District Fleet Maintenance and golf course professional staff.

Ongoing maintenance is done by Fleet. Day to day cleaning and preparation is done by the golf staff.

Project Justification

The current fleet of 58 carts was obtained by a lease buyout in October 2017 following six years of service under a lease. The current care and condition of that fleet indicates it can be used without significant expense for maintenance for the 2019 season. A replacement with gas carts will be planned to be in place for the 2020 season. This will require a process beginning in the fall of 2019 with delivery no later than April 2020.

The next replacement of the cart fleet will be 4 to 6 years after 2020. It is expected this replacement will be lithium battery powered carts. If that choice is made, the Mountain Course Cart Building will have to be retro fitted for electrical service to support this type of cart.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
58 Gas Cart Fleet	288,000	0	288,000
Year Total	288,000	0	288,000
2025			
58 Lithium Battery Carts	371,200	0	371,200
Electrical Service Retro Fit	120,000	0	120,000
Year Total	491,200	0	491,200
	779,200	0	779,200

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Dec 2, 2019	Mar 31, 2020	Director of Golf	



Project Summary

Project Number:	3241ME1804
Title:	Mountain Golf Fuel Storage Facility
Project Type:	D - Capital Improvement - Existing Facilities
Division:	41 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	ME - Mechanical Equipment
Active:	Yes

Project Description					
This project is to replace the underground fuel storage tanks at Mountain Golf. These tanks have reached the end of service and in 2017/18 over \$10,000 has been spent in repairs for water intrusion in to the fuel compartments.					
Project Internal Staff					
Project Justification					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2020					
Mountain Golf Fuel Storage Facility	200,000	0	200,000		
Year Total	200,000	0	200,000		
	200,000	0	200,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2018			Fleet Superintendent		



Project Summary

Project Number:	3242LE1725
Title:	2005 Carryall Club Car #568
Project Type:	F - Rolling Stock
Division:	42 - Mountain Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Carryall (#568): The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's Golf Courses. Specifically utilized for transporting maintenance crews and hauling materials and equipment around the courses. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It is equipped with a dump bed for the release or spreading of material. Presently it is on a 8-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This Club Car Carryall is vital to the successful operation of the Golf Courses operation. This grounds maintenance vehicle was moved back in the CIP replacement program several years. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Carryall Club Car	11,000	0	11,000	
Year Total	11,000	0	11,000	
2033				
Carryall Club Car	12,000	0	12,000	
Year Total	12,000	0	12,000	
	23,000	0	23,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3242LE1726
Title:	2016 Bar Cart #726
Project Type:	F - Rolling Stock
Division:	42 - Mountain Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
Replace F&B car cart #726. The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule cycle ranging from five (5) to fifteen (15) years.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This cart is utilized by both Mountain Golf course in their daily operation during the operating season for providing food and beverage services to customers on the courses. Equipment manufacturers' recommendation is replacement of this equipment approximately every five (5) years. However, if these carts are still meeting golf staff requirements and maintenance repair costs continue to be low, these purchases will be moved back in the CIP.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Replace Bar Cart	29,000	0	29,000	
Year Total	29,000	0	29,000	
2028				
Replace Bar Cart	30,000	0	30,000	
Year Total	30,000	0	30,000	
	59,000	0	59,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3242LE1728
Title:	2015 Toro 4000D Rough Mower #709
Project Type:	F - Rolling Stock
Division:	42 - Mountain Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>This is a comprehensive program to purchase replacement equipment for the Mountain Golf Course. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. This rough mower is on a 6-year replacement schedule, subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.</p>
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Project Internal Staff	<p>Fleet Maintenance Staff will manage this project</p>
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Project Justification	<p>This equipment is a vital link in meeting turf maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Rough Mower	61,000	0	61,000
Year Total	61,000	0	61,000
2025			
Rough Mower	66,000	0	66,000
Year Total	66,000	0	66,000
	127,000	0	127,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3242LE1731
Title:	2017 Toro Sand Pro #745
Project Type:	F - Rolling Stock
Division:	42 - Mountain Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description			
This is a comprehensive program to replace sand rake (#618) for the Mountain Golf Course. The CIP equipment replacement program is a scheduled cycle ranging from five (5) to fifteen (15) years. This program is a vital link in meeting maintenances standards, assuring top quality playing conditions and keeping up with the latest in maintenance practices and equipment technology. Specifically this sand rake is utilized at Mountain Golf for the daily grooming of the sand traps around the course. This equipment is on a 7-year replacement schedule, subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.			
Project Internal Staff			
Project Justification			
This Toro Sand-Pro is vital to the successful operation of the Mountain Golf Course. Presently this equipment is on a 7-year replacement schedule, subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
Toro Sand Pro	22,000	0	22,000
Year Total	22,000	0	22,000
	22,000	0	22,000
Year Identified	Start Date	Est. Completion Date	Manager
2012			Fleet Superintendent
			Project Partner



Project Summary

Project Number:	3242LE1732
Title:	2016 Toro Tri-Plex Mower #614
Project Type:	F - Rolling Stock
Division:	42 - Mountain Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>Replace Toro Tri-Plex mower (#614): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This mower is required to meet turf maintenance standards and is a vital link in assuring quality turf and playing condition at the Mountain Golf Course. Specifically this mower will be utilized for tee boxes and can also be used for Verticutting greens. Presently this mower is on a 7-years replacement schedule.</p>
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Project Internal Staff	<p>Fleet Maintenance Staff will manage this project</p>
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Project Justification	<p>This mower is critical to the Golf operation for maintaining a quality cut of the Mountain Golf Course tee boxes and can also be used to verticut greens. The mower replacement is scheduled at 7-years in the CIP replacement program. This Toro Tri-Plex Mower is vital to the successful operation of the Mountain Golf Course and due to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition this equipment has reached the end of its useful life.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Tri-Plex Mower	43,400	0	43,400
Year Total	43,400	0	43,400
	43,400	0	43,400

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3242LI1204
Title:	Pavement Maintenance of Parking Lot - Mountain Golf Course
Project Type:	E - Capital Maintenance
Division:	42 - Mountain Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description			
Continued maintenance and repair of Mountain Golf Course parking lot. Engineering maintains a database on this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs. Parking Lot is approximately 40,000 sf.			
Project Internal Staff			
Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.			
Project Justification			
Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. The parking lot was reconstructed in 2001 and due for slurry seal in 2020. Concrete flatwork and curbing requires periodic repairs.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Internal Services	2,500	0	2,500
Slurry Seal	20,000	0	20,000
Year Total	22,500	0	22,500
2021			
Crack fill and Maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
Year Total	6,000	0	6,000
2022			
Crack fill and Maintenance	10,000	0	10,000
Internal Services	2,500	0	2,500
Year Total	12,500	0	12,500
2023			
Crack fill and Maintenance	10,000	0	10,000
Internal Services	2,500	0	2,500
Year Total	12,500	0	12,500
2024			
Crack fill and Maintenance	20,000	0	20,000
Internal Services	5,000	0	5,000
Year Total	25,000	0	25,000

2025			
Internal Services	20,000	0	20,000
Reconstruct Parking Lot	350,000	0	350,000
Year Total	370,000	0	370,000
2026			
Crack fill and Maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2027			
Crack fill and Maintenance	7,500	0	7,500
Year Total	7,500	0	7,500
2028			
Crack fill and Maintenance	10,000	0	10,000
Year Total	10,000	0	10,000
2029			
Internal Services	2,500	0	2,500
Slurry Seal	20,000	0	20,000
Year Total	22,500	0	22,500
2033			
Crack fill and Maintenance	10,000	0	10,000
Year Total	10,000	0	10,000
2034			
Internal Services	2,500	0	2,500
Slurry Seal	20,000	0	20,000
Year Total	22,500	0	22,500
	526,000	0	526,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Senior Engineer	



Project Summary

Project Number:	3242LI1205
Title:	Pavement Maintenance of Cart Paths - Mountain Golf Course
Project Type:	E - Capital Maintenance
Division:	42 - Mountain Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description			
Continued maintenance and repair of Mountain Golf Course cart paths asphalt surfaces. Engineering maintains a database on this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs. Includes 110,000 sf of pavement. Maintenance of retaining walls and slopes supporting the pathways are budgeted as a separate CIP. Combined projects amount to approximately \$50,000 in annual repairs.			
Project Internal Staff			
Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.			
Project Justification			
Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate accelerate deterioration. These pathways see light use but also heavy damage due to age and irrigation and roots. Due to the nature of the facility and golf season regular small recurring annual projects are planned to keep up with a high level of service for the extensive cart path system .			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Internal Services	5,000	0	5,000
Section Replacement	35,000	0	35,000
Year Total	40,000	0	40,000
2021			
Crack Fill and Maintenance	10,000	0	10,000
Internal Services	5,000	0	5,000
Section Replacement	30,000	0	30,000
Year Total	45,000	0	45,000
2022			
Internal Services	5,000	0	5,000
Section Replacement	40,000	0	40,000
Year Total	45,000	0	45,000
2023			
Internal Services	5,000	0	5,000
Section Replacement	40,000	0	40,000
Year Total	45,000	0	45,000
2024			
Internal Services	5,000	0	5,000

Section Replacement	40,000	0	40,000
Year Total	45,000	0	45,000
2025			
Internal Services	5,000	0	5,000
Sealing	60,000	0	60,000
Year Total	65,000	0	65,000
2026			
Crack Fill and Maintenance	10,000	0	10,000
Internal Services	5,000	0	5,000
Year Total	15,000	0	15,000
2027			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	55,000	0	55,000
2028			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	55,000	0	55,000
2029			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	55,000	0	55,000
2030			
Internal Services	5,000	0	5,000
Sealing	60,000	0	60,000
Year Total	65,000	0	65,000
2031			
Crack Fill and Maintenance	10,000	0	10,000
Internal Services	5,000	0	5,000
Year Total	15,000	0	15,000
2032			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	55,000	0	55,000
2033			
Internal Services	5,000	0	5,000
Section Replacement	50,000	0	50,000
Year Total	55,000	0	55,000
2034			
Internal Services	5,000	0	5,000

Section Replacement	50,000	0	50,000		
Year Total	55,000	0	55,000		
2035					
Internal Services	5,000	0	5,000		
Sealing	60,000	0	60,000		
Year Total	65,000	0	65,000		
2036					
Crack Fill and Maintenance	10,000	0	10,000		
Internal Services	5,000	0	5,000		
Year Total	15,000	0	15,000		
	790,000	0	790,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012			Senior Engineer		



Project Summary

Project Number:	3299BD1403
Title:	Mountain Course Clubhouse and Maintenance Building Renovation and ADA Upgrades
Project Type:	D - Capital Improvement - Existing Facilities
Division:	41 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description	The project will design and construct targeted renovations to the clubhouse to meet ADA requirements. Targeted renovations at the Maintenance Building will also occur to address structural issues, eliminate any remaining building code violations, and bring the building's "wearing parts" up to a like new condition. The updated maintenance facility would be capable of housing electric carts and the associated charging equipment. Upon completion of design, the project construction budget would again be evaluated and updated.
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Project Internal Staff	Golf Professional Staff, Engineering and Accounting would support the Design Phase. Engineering would be involved in inspection and supervision of the Construction Phase.
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Project Justification	The current Mountain Course Clubhouse does not meet ADA requirements. The current Maintenance Facility does not meet workforce ADA, has deficiencies and damage in the building structure, does not provide adequate ventilation for workforce occupancy during active course/maintenance operations, and requires replacement of a number of key "wearing parts" in the building.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Design and Permits	80,000	0	80,000
Internal Services and Owner Costs	15,000	0	15,000
Year Total	95,000	0	95,000
2024			
Construction	500,000	0	500,000
Contingency	50,000	0	50,000
Internal Services and Owner Costs	50,000	0	50,000
Year Total	600,000	0	600,000
	695,000	0	695,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Engineering Manager	



Project Summary

Project Number:	3299BD1702
Title:	Replace Roof - Mountain Golf Clubhouse
Project Type:	E - Capital Maintenance
Division:	41 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
The roof of the Mountain Course Club House roof has developed leaks seeping through in to building. Repairs were attempted to address the overall life and condition of the roof structure but were not effective. A professional roofing contractor evaluation has indicated the roof needs to be replaced.				
Project Internal Staff				
Buildings Maintenance Staff				
Project Justification				
This project is designed to maintain the serviceable life of the Mountain Golf Course Club House and must be completed to prevent further damage to the facility.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Replace Roof	25,000	0	25,000	
Year Total	25,000	0	25,000	
2037				
Contingency	5,000	0	5,000	
Internal Services	10,000	0	10,000	
Replace Roof	100,000	0	100,000	
Year Total	115,000	0	115,000	
	140,000	0	140,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	Jul 1, 2017	Nov 1, 2017	Buildings Superintendent	



Project Summary

Project Number:	3299BD1705
Title:	Paint Exterior of Mountain Golf Clubhouse
Project Type:	E - Capital Maintenance
Division:	41 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description					
Paint exterior of Mountain Golf Course Clubhouse - The exterior paint of the structure is showing significant wear and tear and needs to be addressed.					
Project Internal Staff					
Buildings Maintenance Staff					
Project Justification					
This project is designed to maintain the serviceable life of the Mountain Golf Course Club House and must be completed to prevent further damage to the facility.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2020					
Contingency	5,000	0	5,000		
Internal Services	1,500	0	1,500		
Paint Building Exterior	35,000	0	35,000		
Year Total	41,500	0	41,500		
2025					
Contingency	7,000	0	7,000		
Internal Services	2,000	0	2,000		
Paint Building Exterior	22,000	0	22,000		
Year Total	31,000	0	31,000		
	72,500	0	72,500		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2017	Jul 1, 2018	Jul 31, 2018	Buildings Superintendent		



Project Summary

Project Number:	3299BD1902
Title:	Mountain Clubhouse Improvements Project
Project Type:	B - Major Projects - Existing Facilities
Division:	41 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Rebuild and rehabilitate the Mountain Golf Course Clubhouse resulting from the August 11, 2018 kitchen fire. The objective is to have a facility that provides good customer experiences for golf check-in, presentation of merchandise, supports a food and beverage service area, and has a social setting in support of both golf and non-golf users. Ancillary to these capacities, the facility also has to accommodate the administration and supervision of the operation for Management and front line staff through good sight lines and accessible storage. This project will also allow the District to address accessibility of the lower level.				
Project Internal Staff				
The Project will be managed by the Engineering staff with substantial cooperation and involvement by the District General Manager, Director of Finance, the Director of Golf, the Mountain Course Head Professional.				
Project Justification				
The August 11, 2018 fire rendered the kitchen area unusable. Smoke damage was incurred throughout the facility, which in turn affects walls, flooring and mechanical systems. The District's insurance coverage is for replacement. However, the evaluation of what is the best solution long term for the operations indicates a revised allocation of floor space, changes to access and ultimate substantial change to customer flow requires a make over of the floor plan. These changes facilitate other objectives including a long stand issue of ADA accessibility to the lower level and deck which serves food. A combination of insurance proceeds and District resources would be required to accomplish the full scope of the rehabilitation project. A design for the renovation of the mountain golf clubhouse has been completed to meet the objectives of future operation while staying within the existing footprint of the building.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Construction Contingency for renovation/remodel @ 15%	178,000	0	178,000	
Construction Cost Estimate per architect	1,186,000	0	1,186,000	
Construction Management and Construction Engineering	100,000	0	100,000	
Year Total	1,464,000	0	1,464,000	
	1,464,000	0	1,464,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Nov 1, 2018	Mar 31, 2020	Engineering Manager	



5 Year Capital Improvement Plan Summary - As of 5.22.19
Facilities

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
Facilities	3350BD1103	Chateau - Replace Carpet	Buildings Superintendent	62,000	-	-	49,500	68,000	179,500
	3350BD1302	Resurface Patio Deck - Chateau	Buildings Superintendent	-	36,000	-	-	-	36,000
	3350BD1505	Paint Interior of Chateau	Buildings Superintendent	-	-	-	-	40,500	40,500
	3350BD1506	Paint Exterior of Chateau	Buildings Superintendent	-	-	47,000	-	-	47,000
	3350BD1704	Replace Air Walls Chateau	Buildings Superintendent	-	31,360	-	-	-	31,360
	3350BD1804	Replace Hallway Tile at Chateau	Buildings Superintendent	65,000	-	-	-	-	65,000
	3350BD1805	Repair and Refinish Wood Walls Upstairs at Chateau	Buildings Superintendent	10,000	-	-	-	-	10,000
	3350BD1808	Chateau Community Room Ceiling and Beam Refurbishing	Buildings Superintendent	-	-	-	-	25,000	25,000
	3350FF1204	Catering Kitchen Equipment	Food and Beverage Director	18,900	-	-	-	-	18,900
	3350FF1601	Enclose Chateau Exterior Storage Area	Engineering Technician	-	85,000	-	-	-	85,000
	3351BD1501	Aspen Grove - Replace Carpet	Buildings Superintendent	-	-	11,000	-	-	11,000
	3351BD1703	Aspen Grove Outdoor Seating BBQ and Landscaping	Parks Superintendent	-	-	41,400	10,000	-	51,400
	3351BD2101	Dumpster enclosure - Village Green/Aspen Grove	Parks Superintendent	-	-	45,000	-	-	45,000
	3351LI1807	Replacement Sod at Aspen Grove	Sales and Events Coordinator	18,000	-	-	-	-	18,000
	3352FF1104	Replace Banquet Serviceware	Sales and Events Coordinator	-	-	-	-	11,000	11,000
	3352LV1720	Replace 2013 Cargo Truck #690	Fleet Superintendent	-	-	-	38,500	-	38,500
	Total			173,900	152,360	144,400	98,000	144,500	713,160



Project Summary

Project Number:	3350BD1103
Title:	Chateau - Replace Carpet
Project Type:	E - Capital Maintenance
Division:	50 - Chateau
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description					
This project is for the on-going replacement of the carpet in the Chateau. The normal life cycle for a high use venue is 5/6 years. The carpets have been maintained on a regular basis which has extended the life but wear spots will inevitably show as well as stains and permanent damage.					
Project Internal Staff					
Staff will supervise and inspect project.					
Project Justification					
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Chateau asset and customer service					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2020					
Contingency	10,000	0	10,000		
Internal services	2,000	0	2,000		
Replace carpet upstairs	50,000	0	50,000		
Year Total	62,000	0	62,000		
2023					
Contingency	7,500	0	7,500		
Internal services	2,000	0	2,000		
Repalce carpet downstairs	40,000	0	40,000		
Year Total	49,500	0	49,500		
2024					
Contingency	11,000	0	11,000		
Internal services	2,000	0	2,000		
Replace carpet upstairs	55,000	0	55,000		
Year Total	68,000	0	68,000		
2027					
Contingency	8,500	0	8,500		
Internal services	2,000	0	2,000		
Repalce carpet downstairs	45,000	0	45,000		
Year Total	55,500	0	55,500		
	235,000	0	235,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Nov 4, 2013	Nov 15, 2013	Buildings Superintendent		



Project Summary

Project Number:	3350BD1302
Title:	Resurface Patio Deck - Chateau
Project Type:	E - Capital Maintenance
Division:	50 - Chateau
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
This project is the on-going recoating of the epoxy coating on the Chateau exterior deck. Normal wear and tear has degraded the initial coating. The District is currently standardizing the type of coating used in high traffic areas like decks and patios. The neogard epoxy coating compound is applied and adheres to the floor surface and wears much better than other products that have been used. It maintains the integrity of the floor, handles use much more efficiently, and allows years between recoats.				
Project Internal Staff				
Staff will supervise and inspect project				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Chateau asset and customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Contingency	5,000	0	5,000	
Internal Services	1,000	0	1,000	
Resurface Patio Deck	30,000	0	30,000	
Year Total	36,000	0	36,000	
2027				
Contingency	3,200	0	3,200	
Internal Services	500	0	500	
Resurface Patio Deck	31,700	0	31,700	
Year Total	35,400	0	35,400	
	71,400	0	71,400	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	May 1, 2017	May 31, 2017	Buildings Superintendent	



Project Summary

Project Number:	3350BD1505
Title:	Paint Interior of Chateau
Project Type:	E - Capital Maintenance
Division:	50 - Chateau
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description					
The interior paint in the Chateau Community Center was applied in the summer 2004 with the Ballroom walls repainted in 2014. Many areas of the facility are damaged, dirty and stained from usage and age. Touch up paint and repairs have been made to the interior walls of the Buildings to maintain the general appearance of the Facility. However, as more touch up is completed different shades of the same paint become visible due to age of the existing paint. By repairing the damaged areas and painting the entire faculty interior it improves what will become a customer service issue, if not addressed and the appearance and further protects the overall interior.					
Project Internal Staff					
Staff will supervise and inspect contractor installation project. Buildings staff will assist in moving furniture and equipment					
Project Justification					
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Chateau Community Center asset and customer service.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2024					
Contingency	7,500	0	7,500		
Internal Services	3,000	0	3,000		
Paint Interior	30,000	0	30,000		
Year Total	40,500	0	40,500		
	40,500	0	40,500		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2013			Buildings Superintendent		



Project Summary

Project Number:	3350BD1506
Title:	Paint Exterior of Chateau
Project Type:	E - Capital Maintenance
Division:	50 - Chateau
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
The exterior paint on the Chateau Community Center was applied in the Spring of 2015. Many parts of the facility are beginning to fade with conditions and age. Touch up paint and repairs to the siding have maintained the overall appearance of the Facility. However as more touch up is completed different shades of the paint become visible due to and weathering of the existing paint. By repairing the damaged siding and painting the entire faculty it improves the appearance and further protects the exterior.				
Project Internal Staff				
Staff will supervise and inspect contractor installation project. Buildings staff will make repairs to the siding prior to painting				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Chateau Community Center asset and customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Contingency	7,000	0	7,000	
Internal Sevices	5,000	0	5,000	
Paint Exterior	35,000	0	35,000	
Year Total	47,000	0	47,000	
2028				
Contingency	8,000	0	8,000	
Internal Sevices	7,500	0	7,500	
Paint Exterior	37,000	0	37,000	
Year Total	52,500	0	52,500	
	99,500	0	99,500	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013			Buildings Superintendent	



Project Summary

Project Number:	3350BD1704
Title:	Replace Air Walls Chateau
Project Type:	E - Capital Maintenance
Division:	50 - Chateau
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description			
Replace and upgrade current retractable air walls in Chateau Community rooms			
Project Internal Staff			
Buildings Maintenance Staff - Staff will contract out the design, removal and construction as deemed necessary by consultants. Staff will inspect during the construction phase.			
Project Justification			
<p>The current air walls dividing the Community Rooms are from original construction in 2004. While the air walls have been maintained by internal staff and outside contractors, the fabric, panel tracks and guides are beginning to breakdown.</p> <p>The current panels do not retract into the space original designed for them to do so and therefore extend out into the meeting space, eliminating valuable set up area and provide an eye sore for guests. Covers have been purchased to hide the panels but still take up space.</p> <p>An outside consultant will be employed to provide direction toward a solution to the storage issue and the air wall system will be upgraded as well.</p>			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Contingency	5,000	0	5,000
Internal Services	1,360	0	1,360
Replace Air Walls Chateau	25,000	0	25,000
Year Total	31,360	0	31,360
	31,360	0	31,360
Year Identified	Start Date	Est. Completion Date	Manager
2017	Jul 1, 2018	May 1, 2019	Buildings Superintendent
			Project Partner



Project Summary

Project Number:	3350BD1804
Title:	Replace Hallway Tile at Chateau
Project Type:	E - Capital Maintenance
Division:	50 - Chateau
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description		Remove existing slate tile that is failing, grind off old carpet glue from slab that is limiting grout adhesion, and replace with new slate in a brick pattern with 18" pieces.		
Project Internal Staff		Building Maintenance		
Project Justification		Failing slate is posing a safety hazard to both staff and customers. Aesthetically, the lifting and chipping slate is also not conducive to the image expected at this type of venue.		
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Contingency	4,800	0	4,800	
Internal Services	1,200	0	1,200	
Slate removal and replace	59,000	0	59,000	
Year Total	65,000	0	65,000	
	65,000	0	65,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2018	Oct 1, 2018	Nov 30, 2018	Buildings Superintendent	



Project Summary

Project Number:	3350BD1805
Title:	Repair and Refinish Wood Walls Upstairs at Chateau
Project Type:	E - Capital Maintenance
Division:	50 - Chateau
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description					
Repair and refinish all the wood walls upstairs at the Chateau.					
Project Internal Staff					
Building Maintenance					
Project Justification					
Due to the age and the abuse that the walls endure, they are aesthetically unsatisfactory for the events this venue hosts.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2020					
Contingency	1,000	0	1,000		
Internal Services	300	0	300		
Wood Walls Repair and Refinish	8,700	0	8,700		
Year Total	10,000	0	10,000		
	10,000	0	10,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2018	Oct 1, 2018	Nov 30, 2018	Buildings Superintendent		



Project Summary

Project Number:	3350BD1808
Title:	Chateau Community Room Ceiling and Beam Refurbishing
Project Type:	E - Capital Maintenance
Division:	50 - Chateau
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description			
Remove failing acoustic ceiling, replace with a more durable product, and re-spray the ceiling. The beams re-paint in existing color and paint all metal connections in black.			
Project Internal Staff			
Building Maintenance			
Project Justification			
Acoustic ceiling is beginning to fail and come off in certain areas. When replaced, we need to use a more durable product. The beams will remain the same color. The metal structural brackets painted black are more in line with current design and will add a depth to the room and highlight the open trusses.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
Chateau community room ceiling and beam refurbishing	25,000	0	25,000
Year Total	25,000	0	25,000
	25,000	0	25,000
Year Identified	Start Date	Est. Completion Date	Manager
2018			Buildings Superintendent
			Project Partner



Project Summary

Project Number:	3350FF1204
Title:	Catering Kitchen Equipment
Project Type:	G - Equipment & Software
Division:	50 - Chateau
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description				
Staff has made an assessment of each major element of the Kitchen equipment. Based on estimated useful lives and knowledge of the performance of the current equipment, a replacement schedule has been developed and restated below.				
Project Internal Staff				
Chef will receive equipment, set up and install with delivery person.				
Project Justification				
Items presented are replacement of the same item as presently in service. There are no changes to capacities. However, properly performing equipment is essential to maintaining health and safety standards as well as serving customers timely and with a quality product. Some items have been moved to a later year. We feel these delays in purchases will not impact our ability to operate safely or efficiently.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
6 burner stove with oven convect	6,300	0	6,300	
Charbroiler w/oven	6,300	0	6,300	
Griddle with oven convect	6,300	0	6,300	
Year Total	18,900	0	18,900	
2030				
Alto Shaam	8,300	0	8,300	
Walk-In Cooler	52,000	0	52,000	
Year Total	60,300	0	60,300	
	79,200	0	79,200	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Food and Beverage Director	



Project Summary

Project Number:	3350FF1601
Title:	Enclose Chateau Exterior Storage Area
Project Type:	D - Capital Improvement - Existing Facilities
Division:	50 - Chateau
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description					
This project will complete the enclosure of the exterior storage area at the Chateau. This area was originally design to hold the bar cart but has been retrofitted to general dry storage in support of Chateau F&B operations. This retrofit was completed largely by installing shelving and little else. The exterior of this area is still constructed as though the area was still used for bar cart storage with basic fencing and a gate. This project will remove the gate and fencing and fully enclose the space to make it a water tight but unconditioned space.					
Project Internal Staff					
The Engineering Department will manage this project with input from the F&B and Facilities team.					
Project Justification					
At present the location is not water tight which limits the type of materials able to be stored in the space. During the winter rain/snow and snowmelt enter the space and can ruin product stored in the space.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2021					
Construction	85,000	0	85,000		
Year Total	85,000	0	85,000		
	85,000	0	85,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2015	Jul 1, 2019	May 1, 2021	Buildings Superintendent		



Project Summary

Project Number:	3351BD1501
Title:	Aspen Grove - Replace Carpet
Project Type:	E - Capital Maintenance
Division:	51 - Aspen Grove
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
<p>The carpet in the Aspen Grove is original installation from 2008. The normal life cycle for a high use venue is 5/6 years. The carpets have been maintained on a regular basis which has extended the life but wear spots are showing, as well as stains which are now permanent. There is fraying along many of the seams and cutaways. Carpet tile would replace the existing roll carpet as the squares are easy to replace should a problem occur. Carpet replacement is on a 6/7 year replacement cycle. Estimate done by 3rd party contractor</p>				
Project Internal Staff				
Staff will supervise and inspect contractor installation project.				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Aspen Grove asset and customer service				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Contingency	1,500	0	1,500	
Internal Services	1,000	0	1,000	
Replace Carpet	8,500	0	8,500	
Year Total	11,000	0	11,000	
	11,000	0	11,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Oct 1, 2021	Oct 31, 2021	Buildings Superintendent	



Project Summary

Project Number:	3351BD1703
Title:	Aspen Grove Outdoor Seating BBQ and Landscaping
Project Type:	E - Capital Maintenance
Division:	51 - Aspen Grove
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description	This project provides replacements for the capacities needed for events at Aspen Grove.
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Project Internal Staff	Parks Superintendent, Engineering
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Project Justification	<p>The wooden picnic tables are exceeding the expected useful life and have been in service for over twenty-five years. The thirteen wooden picnic tables (seating for 80) require staining twice a year and board replacement is increasingly required as the age of the wood splinters and shows its age. Many of the picnic tables frames have settled and are at varies heights that are not at a consistent standard height. The current picnic tables do not provide wheelchair accessibility. Some of the new tables would allow for handicap accessibility. Currently 4 additional portable tables are used to provide adequate seating. Our current picnic table standard is a plastic/rubber coated metal top and powder coated frame that reduces the need for yearly maintenance such as staining and wood replacement. New tables would provide for 160 seating.</p> <p>The grill replacement will provide for safer and easier adjustment grill heights.</p> <p>Landscape improvements will provide hanging planters and planters for deck and BBQ area. We are planning to add plants along the inside fencing.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
BBQ Improvements - New Grill	5,000	0	5,000
Twenty-six Picnic Tables	36,400	0	36,400
Year Total	41,400	0	41,400
2023			
Landscape Improvements	10,000	0	10,000
Year Total	10,000	0	10,000
	51,400	0	51,400

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	May 1, 2020	May 1, 2023	Parks Superintendent	



Project Summary

Project Number:	3351BD2101
Title:	Dumpster enclosure – Village Green/Aspen Grove
Project Type:	D - Capital Improvement - Existing Facilities
Division:	51 - Aspen Grove
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Replace Dumpster Enclosure at Aspen Grove to meet standards				
Project Internal Staff				
Parks Superintendent, Engineering				
Project Justification				
The enhancement to the Aspen Grove/Village Green dumpster enclosure will provide an additional place for a recycling dumpster and be aesthetically pleasing in a highly visible location. The dumpster enclosure serves Village Green which hosts a number of special events and the Aspen Grove facility which serves numerous events with food being serviced. It's critical that Catering and Facilities staff has enough dumpster capabilities to secure trash and recycling waste. The current trash dumpster enclosure is built out of wood, and is frequently damaged by bears. This project will bring the trash and recycling enclosure up to more durable standard that will save the cost of frequent repairs associated with a wooden structure. This improvement will help make Parks, Catering and Facilities staff more efficient at collecting trash and improve recycling efforts.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Dumpster Enclosure	45,000	0	45,000	
Year Total	45,000	0	45,000	
	45,000	0	45,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	May 16, 2021	Jun 30, 2021	Parks Superintendent	



Project Summary

Project Number:	3351LI1807
Title:	Replacement Sod at Aspen Grove
Project Type:	E - Capital Maintenance
Division:	51 - Aspen Grove
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description				
Replace the sod at Aspen Grove in high traffic areas within the fenced-in area.				
Project Internal Staff				
Project Justification				
<p>The turf in Aspen Grove has been a challenge to maintain for several reasons: heavy usage from events and weddings; competition between turf roots and tree roots for water and nutrients; and soil that is less than ideal for growing top quality turf. Consistent shade from the aspen trees also presents a barrier to optimum turf growth. IVGID Staff and outside experts agree that the best solution moving forward would be to strip about 8,000 square feet of the existing turf. Soil tests of the existing soil will be taken and an amendment package applied to provide the soil with the nutrients it is currently lacking. Additional topsoil will be brought onsite to mix with existing soil and the area will then be prepped, rototilled, and regraded for proper drainage. Finally new sod will be installed on the improved and amended soil bed. According to the outside expert the lack of ideal growing conditions for turf at Aspen Grove will require that the sod be replaced every 8-10 years.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Sod at Aspen Grove	18,000	0	18,000	
Year Total	18,000	0	18,000	
2028				
Sod at Aspen Grove	19,800	0	19,800	
Year Total	19,800	0	19,800	
2038				
Sod at Aspen Grove	21,780	0	21,780	
Year Total	21,780	0	21,780	
	59,580	0	59,580	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2018			Sales and Events Coordinator	



Project Summary

Project Number:	3352FF1104
Title:	Replace Banquet Serviceware
Project Type:	G - Equipment & Software
Division:	52 - Catering
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description		On-going replacement at the Chateau of 450 count Silverware, 300 count China, and 300 count plate covers all with a 6 to 8year life span		
Project Internal Staff		Banquet Staff		
Project Justification		Through normal wear and tear the Banquet Serviceware requires replacement and replenishment. Plate covers must ordered in conjunction with the China to insure the proper fit and functionality. Typically old China and Silverware is retained and used for off site events.		
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Silverware Place Settings including shipping	11,000	0	11,000	
Year Total	11,000	0	11,000	
2025				
China	33,000	0	33,000	
Plate Covers	33,000	0	33,000	
Year Total	66,000	0	66,000	
2029				
China	36,000	0	36,000	
Plate Covers	36,000	0	36,000	
Year Total	72,000	0	72,000	
2030				
Silverware Place Settings including shipping	13,000	0	13,000	
Year Total	13,000	0	13,000	
	162,000	0	162,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Sales and Events Coordinator	



Project Summary

Project Number:	3352LV1720
Title:	Replace 2013 Cargo Truck #690
Project Type:	F - Rolling Stock
Division:	52 - Catering
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description	<p>This project is for the scheduled replacement of vehicles by the Fleet Division for the Food & Beverage Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.</p>
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Project Internal Staff	<p>Fleet and Food & Beverage staff have identified that replacement of this small van to a much larger truck with a cargo box and liftgate would better suit the operational needs of the department and this larger truck would reduce the need for two vehicles. Truck #474 which Food & Beverage operates now could be transferred to Parks Department which has a replacement scheduled of a 1993 pick up. This transfer of asset will lower capital cost by \$25,000</p>
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Project Justification	<p>Vehicle #509 is used by the Food and Beverage department to transport food and catering supplies to the various venues with the District. This Van is not properly suited for this job. Cleanliness is a big problem and when things are spilled and the inside of this van needs to be cleaned the interior and electrical system get wet and damaged. This vehicle needs to be replaced by a truck with rear enclosed box to better suit the needs of this operation and overall sanitary conditions</p>
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Forecast	
Budget Year	Total Expense Total Revenue Difference
2023	
Cargo Box	38,500 0 38,500
Year Total	38,500 0 38,500
	38,500 0 38,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	Jul 1, 2022	Apr 30, 2023	Fleet Superintendent	



5 Year Capital Improvement Plan Summary - As of 5.22.19

Ski

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
Ski	3453BD1806	Base Lodge Walk In Cooler and Food Prep Reconfiguration	Engineering Manager	25,000	150,000	-	-	-	175,000
	3453FF1706	Replace Main Lodge/Snowflake Lodge Dinning Furniture and Fixtures	Food and Beverage Director	38,000	52,000	-	-	-	90,000
	3453FF1707	Replacement of Main and Snowflake Lodge Kitchen Equipment	Food and Beverage Director	-	53,000	-	-	-	53,000
	3462CE1902	Diamond Peak Fiber Network to Lifts	IT Analyst	-	-	-	68,000	-	68,000
	3462HE1502	Crystal Express Ski Lift Maintenance and Improvements	Ski Resort General Manager	-	55,000	25,000	345,000	-	425,000
	3462HE1702	Lakeview Ski Lift Maintenance and Improvements	Ski Resort General Manager	250,000	30,000	192,000	-	-	472,000
	3462HE1711	Lodgepole Ski Lift Maintenance and Improvements	Ski Resort General Manager	-	-	60,000	-	320,000	380,000
	3462HE1712	Red Fox Ski Lift Maintenance and Improvements	Ski Resort General Manager	30,000	20,000	-	-	-	50,000
	3462HE1903	Ridge Ski Lift Maintenance and Improvements	Mountain Operations Manager	-	62,000	-	-	-	62,000
	3462LE1720	2016 Polaris Ranger Crew #728	Fleet Superintendent	-	-	-	-	19,000	19,000
	3463HE1721	2013 Snow blower #689	Fleet Superintendent	-	-	-	-	165,900	165,900
	3463HE1722	Loader Tire Chains (1-Set)	Fleet Superintendent	-	-	9,750	-	-	9,750
	3463HE1723	2002 Caterpillar 950G Loader #524	Fleet Superintendent	-	-	265,000	-	-	265,000
	3463HE1727	Replacement of 2008 Grooming vehicle # 628	Fleet Superintendent	390,000	-	-	-	-	390,000
	3463HE1728	Replacement of 2011 Grooming Vehicle # 645	Fleet Superintendent	-	-	400,000	-	-	400,000
	3464BD1403	Resurface Main Lodge Decks	Buildings Superintendent	75,200	-	-	-	-	75,200
	3464HE1902	Replace Snowmaking Air Compressor Microprocessor Control Units	Mountain Operations Manager	100,000	-	-	-	-	100,000
	3464HE1908	1983 CASE 855C TRACK BACKHOE # 348	Fleet Superintendent	-	-	-	250,000	-	250,000
	3464LE1601	Ski Resort Snowmobile Fleet Replacement	Fleet Superintendent	15,500	16,000	16,500	17,000	17,000	82,000
	3464LE1729	Snowplow #304A	Fleet Superintendent	-	-	19,000	-	-	19,000
	3464LE1734	2016 Polaris Ranger Crew #723	Fleet Superintendent	-	-	-	19,000	-	19,000
	3464LV1730	2014 Yamaha ATV #695	Fleet Superintendent	-	-	19,000	-	-	19,000
	3464LV1731	2012 Yamaha ATV #683	Fleet Superintendent	18,000	-	-	-	-	18,000
	3464LV1732	2013 Yamaha Rhino (ATV) #674	Fleet Superintendent	-	21,000	-	-	-	21,000
	3464ME1802	Diamond Peak Fuel Storage Facility	Fleet Superintendent	-	20,000	-	400,000	-	420,000
	3464ME1907	Diesel Exhaust Fluid Storage/Dispenser	Fleet Superintendent	20,000	-	-	-	-	20,000
	3464SI1002	Fan Guns Purchase and Refurbishment	Mountain Operations Manager	130,000	-	-	-	-	130,000
	3467LE1703	Child Ski Center Surface Lift	Ski Resort General Manager	-	-	65,000	-	-	65,000
	3468RE0002	Replace Ski Rental Equipment	Director of Skier Services	200,000	185,000	-	150,000	-	535,000
	3468RE1609	Replace Ski Rental Machinery	Director of Skier Services	-	-	36,000	-	-	36,000
	3469HE1739	Replace 2010 Shuttle Bus #635	Fleet Superintendent	-	130,000	-	-	-	130,000
	3469HE1740	Replace 2010 Shuttle Bus #636	Fleet Superintendent	-	130,000	-	-	-	130,000
	3469LI1105	Pavement Maintenance, Diamond Peak and Ski Way	Senior Engineer	55,000	220,000	105,000	105,000	100,000	585,000
	3469LI1805	Ski Way and Diamond Peak Parking Lot Reconstruction	Engineering Manager	225,000	300,000	2,750,000	-	-	3,275,000
	3469LI1805B	Roundabout Alternative for Ski Way Timing to be coordinated with summer operations	Engineering Manager	-	-	-	2,100,000	-	2,100,000
	3469LV1735	2007 Chevy 1-Ton Pick-Up #596	Fleet Superintendent	-	-	40,000	-	-	40,000



5 Year Capital Improvement Plan Summary - As of 5.22.19
Ski

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
	3469LV1736	2007 Chevy 1-Ton Pick-Up #597	Fleet Superintendent	-	-	40,000	-	-	40,000
	3469LV1737	1991 Ski Passenger Tram #267	Fleet Superintendent	-	-	22,700	-	-	22,700
	3469LV1738	1993 Ski Passenger Tram #283	Fleet Superintendent	-	-	-	23,400	-	23,400
	3499BD1710	Diamond Peak Facilities Flooring Material Replacement	Mountain Operations Manager	43,000	40,000	62,000	-	-	145,000
	3499BD1904	Ski Rental Shop Doors	Assistant Buildings Superintendent	13,000	-	-	-	-	13,000
	3499BD1905	HVAC Control Changeout	Assistant Buildings Superintendent	21,000	-	-	-	-	21,000
	3499CE1909	Ecommerce / Middleware Software	IT Analyst	202,000	-	-	-	-	202,000
	3499FF1607	Skier Services Building Customer Service Counter	Principal Engineer	12,000	-	-	-	-	12,000
	3499OE1205	Replace Staff Uniforms	Ski Resort General Manager	-	130,000	-	-	-	130,000
	3499OE1502	Skier Services Administration Printer Copier Replacement 1210 Ski Way	Director of IT	10,000	-	-	-	-	10,000
	Total			1,872,700	1,614,000	4,126,950	3,477,400	621,900	11,712,950
Ski Master Plan Implementation	3653BD1501	2015 Ski Area Master Plan Implementation - Entitlements and Pre-Design	Engineering Manager	-	-	160,000	-	-	160,000
	3653BD1501A	2015 Ski Area Master Plan Implementation - Phase 1 A Listed Activities	Engineering Manager	-	-	1,103,000	1,103,000	-	2,206,000
	3653BD1501B	2015 Ski Area Master Plan Implementation - Phase 1 B Activities - Alpine Coaster	Engineering Manager	-	-	-	-	878,887	878,887
	Total			-	-	1,263,000	1,103,000	878,887	3,244,887



Project Summary

Project Number:	3453BD1806
Title:	Base Lodge Walk In Cooler and Food Prep Reconfiguration
Project Type:	D - Capital Improvement - Existing Facilities
Division:	53 - Food & Beverage
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
This project will replace the aging walk-in cooler for the Diamond Peak Base Lodge Kitchen and do so in a manner that reconfigures placement to improve cold storage capacities and food prep operations. Doing so will provide opportunities to significantly enhance speed of service to the customer.				
Project Internal Staff				
This project will be managed by the Engineering Division with support from Diamond Peak and Food & Beverage Staff				
Project Justification				
Existing walk-in cooler is undersized relative to operational needs and kitchen food prep area is awkwardly laid-out in a manner inconsistent with industry best practices.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Design	25,000	0	25,000	
Year Total	25,000	0	25,000	
2021				
Construct Improvements	150,000	0	150,000	
Year Total	150,000	0	150,000	
	175,000	0	175,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2018	Jul 1, 2019	Jun 30, 2020	Engineering Manager	



Project Summary

Project Number:	3453FF1706
Title:	Replace Main Lodge/Snowflake Lodge Dining Furniture and Fixtures
Project Type:	G - Equipment & Software
Division:	53 - Food & Beverage
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description				
This project outlines the periodic replacement of furnishings and fixtures associated with customer dining experience at the Main and Snowflake Lodge.				
Project Internal Staff				
Food and Beverage				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and replacement improvements that directly or indirectly reflect on our guest's experience. This project is designed to maintain the value of the Diamond Peak Ski Resort asset and customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Main Lodge Deck Furniture	38,000	0	38,000	
Year Total	38,000	0	38,000	
2021				
Replace Dining Chairs Main Lodge - Snowflake Lodge	32,000	0	32,000	
Replace Dining Tables Main Lodge - Snowflake Lodge	20,000	0	20,000	
Year Total	52,000	0	52,000	
2028				
Replace Dining Tables Main Lodge - Snowflake Lodge	32,919	0	32,919	
Year Total	32,919	0	32,919	
	122,919	0	122,919	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016			Food and Beverage Director	



Project Summary

Project Number:	3453FF1707
Title:	Replacement of Main and Snowflake Lodge Kitchen Equipment
Project Type:	G - Equipment & Software
Division:	53 - Food & Beverage
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description			
This project outlines the periodic replacement of kitchen equipment and fixtures associated with customer dining experience at Diamond Peak's Main Lodge and Snowflake lodge.			
Project Internal Staff			
Food and Beverage			
Project Justification			
The general purpose of this project is to improve our facilities through required maintenance and replacement improvements that directly or indirectly reflect on our guest's experience. This project is designed to maintain the value of the Diamond Peak Ski Resort asset and customer service.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Loft bar walk-in cooler	53,000	0	53,000
Year Total	53,000	0	53,000
2025			
Dishwasher Machine	11,000	0	11,000
Year Total	11,000	0	11,000
	64,000	0	64,000
Year Identified	Start Date	Est. Completion Date	Manager
2016			Food and Beverage Director
			Project Partner



Project Summary

Project Number:	3462CE1902
Title:	Diamond Peak Fiber Network to Lifts
Project Type:	D - Capital Improvement - Existing Facilities
Division:	62 - Lift Operations
Budget Year:	2020
Finance Option:	
Asset Type:	CE - Communications Equipment
Active:	Yes

Project Description			
Establish an Ethernet service to a multi-point network of the lifts at Diamond Peak. These include Crystal Quad, Lodgepole, Lakeview and Schoolhouse. The Local Area Network (LAN) would be housed in a conduit and contain fiber lines for connectivity.			
Project Internal Staff			
The IT Senior Analyst has responsibility for the radio and internal communication lines for the District. That included setup and take down on either end of seasons and to assess care and condition of the lines on an ongoing basis.			
Project Justification			
The current communication lines essentially are telephone lines mimicking a DSL connection. These offer neither the necessary bandwidth or reliability the District needs as it enters a more technological age of remote scanners, video message boards and other electronic means of communication. A fiber network gives the District the best chance for capacity. This would seek to be installed in conjunction with the culvert or other property improvement rather than as a separate mobilization or trenching activity.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Contingency	10,000	0	10,000
Fiber cable 4,000 feet	6,000	0	6,000
Trenching and conduit 4,000 feet	52,000	0	52,000
Year Total	68,000	0	68,000
	68,000	0	68,000
Year Identified	Start Date	Est. Completion Date	Manager
2016	Jul 1, 2019	Jun 30, 2020	IT Analyst
			Project Partner



Project Summary

Project Number:	3462HE1502
Title:	Crystal Express Ski Lift Maintenance and Improvements
Project Type:	E - Capital Maintenance
Division:	62 - Lift Operations
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description				
The District owns 6 aerial ski lifts at Diamond Peak Ski Resort. The lifts were generally constructed between 1969, 1979, 1995 and 2003 consisting of fixed grip double chair, fixed grip quad chair and a detachable quad chair. Each lift contains many of the same operating components such as motors, gear reducers, auxiliary engines, fuel tanks, haul ropes, counterweight ropes, line machinery, tensioning systems, braking systems, bull wheels, carriers and haul rope grips, communication lines, safety control systems, drive control systems, switches, conveying systems and loading systems				
Project Internal Staff				
IVGID Engineering, Diamond Peak Staff				
Project Justification				
This Project Funds the replacement and maintenance of equipment listed above within the chair lift system. Staff performs inspections and maintenance on the lift system and plans future major upgrades as equipment reaches the end of its useful life. The age of the equipment, the number of hours operating the equipment and other equipment analyses, such as vibration testing and non destructive testing, dictate replacement or rehabilitation of the equipment to maintain a reliable ski lift system to our customers.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Electric Drive Motor Refurbish	55,000	0	55,000	
Year Total	55,000	0	55,000	
2022				
Replace conveying system components	25,000	0	25,000	
Year Total	25,000	0	25,000	
2023				
Replace Bullwheel Bearings	70,000	0	70,000	
Replace Carrier Hanger Axles	180,000	0	180,000	
Replace Haul Rope Grip Axles	35,000	0	35,000	
Replace Haul Rope Grip Guide Rollers	60,000	0	60,000	
Year Total	345,000	0	345,000	
	425,000	0	425,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013			Ski Resort General Manager	



Project Summary

Project Number:	3462HE1702
Title:	Lakeview Ski Lift Maintenance and Improvements
Project Type:	E - Capital Maintenance
Division:	62 - Lift Operations
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description			
The District owns 6 Aerial ski lifts at Diamond Peak Ski Resort. The lifts were generally constructed between 1969, 1979, 1995 and 2003 consisting of fixed grip double chair, fixed grip quad chair and a detachable quad chair. Each lift contains many of the same operating components such as motors, gear reducers, auxiliary engines, fuel tanks, haul ropes, counterweight ropes, line machinery, tensioning systems, braking systems, bull wheels, carriers and haul rope grips, communication lines, safety control systems, drive control systems, switches, conveying systems and loading systems			
Project Internal Staff			
IVGID Engineering, Diamond Peak Staff			
Project Justification			
This Project Funds the replacement and maintenance of equipment listed above within the chair lift system. Staff performs inspections and maintenance on the lift system and plans future major upgrades as equipment reaches the end of its useful life. The age of the equipment, the number of hours operating the equipment and other equipment analyses, such as vibration testing and non destructive testing, dictate replacement or rehabilitation of the equipment to maintain a reliable ski lift system to our customers.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Replace Lift Motor Drive and Safety Control Systems	250,000	0	250,000
Year Total	250,000	0	250,000
2021			
Replace Drive Terminal Bullwheel Bearings	30,000	0	30,000
Year Total	30,000	0	30,000
2022			
Replace Carrier Haul Rope Grips	192,000	0	192,000
Year Total	192,000	0	192,000
	472,000	0	472,000
Year Identified	Start Date	Est. Completion Date	Manager
2013			Ski Resort General Manager
			Project Partner



Project Summary

Project Number:	3462HE1711
Title:	Lodgepole Ski Lift Maintenance and Improvements
Project Type:	E - Capital Maintenance
Division:	62 - Lift Operations
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description				
The District owns 6 aerial ski lifts at Diamond Peak Ski Resort. The lifts were generally constructed between 1969, 1979, 1995 and 2003 consisting of fixed grip double chair, fixed grip quad chair and a detachable quad chair. Each lift contains many of the same operating components such as motors, gear reducers, auxiliary engines, fuel tanks, haul ropes, counterweight ropes, line machinery, tensioning systems, braking systems, bull wheels, carriers and haul rope grips, communication lines, safety control systems, drive control systems, switches, conveying systems and loading systems				
Project Internal Staff				
IVGID Engineering, Diamond Peak Staff				
Project Justification				
This Project Funds the replacement and maintenance of equipment listed above within the chair lift system. Staff performs inspections and maintenance on the lift system and plans future major upgrades as equipment reaches the end of its useful life. The age of the equipment, the number of hours operating the equipment and other equipment analyses, such as vibration testing and non destructive testing, dictate replacement or rehabilitation of the equipment to maintain a reliable ski lift system to our customers.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Replace Bullwheel Bearings	60,000	0	60,000	
Year Total	60,000	0	60,000	
2024				
Replace Carrier Hanger Arms	40,000	0	40,000	
Replace Carrier Haul Rope Grips	120,000	0	120,000	
Replace low voltage control systems	160,000	0	160,000	
Year Total	320,000	0	320,000	
	380,000	0	380,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017			Ski Resort General Manager	



Project Summary

Project Number:	3462HE1712
Title:	Red Fox Ski Lift Maintenance and Improvements
Project Type:	E - Capital Maintenance
Division:	62 - Lift Operations
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description				
The District owns 6 aerial ski lifts at Diamond Peak Ski Resort. The lifts were generally constructed between 1969, 1979, 1995 and 2003 consisting of fixed grip double chair, fixed grip quad chair and a detachable quad chair. Each lift contains many of the same operating components such as motors, gear reducers, auxiliary engines, fuel tanks, haul ropes, counterweight ropes, line machinery, tensioning systems, braking systems, bull wheels, carriers and haul rope grips, communication lines, safety control systems, drive control systems, switches, conveying systems and loading systems				
Project Internal Staff				
IVGID Engineering, Diamond Peak Staff				
Project Justification				
This Project Funds the replacement and maintenance of equipment listed above within the chair lift system. Staff performs inspections and maintenance on the lift system and plans future major upgrades as equipment reaches the end of its useful life. The age of the equipment, the number of hours operating the equipment and other equipment analyses, such as vibration testing and non destructive testing, dictate replacement or rehabilitation of the equipment to maintain a reliable ski lift system to our customers.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Install Chair Bail Gussets	30,000	0	30,000	
Year Total	30,000	0	30,000	
2021				
Replace Counter Weight Rope	20,000	0	20,000	
Year Total	20,000	0	20,000	
	50,000	0	50,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017			Ski Resort General Manager	



Project Summary

Project Number:	3462HE1903
Title:	Ridge Ski Lift Maintenance and Improvements
Project Type:	E - Capital Maintenance
Division:	62 - Lift Operations
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description					
This project includes the replacement of the ski lift haul rope equipment					
Project Internal Staff					
Project Justification					
The general purpose of this project addresses the replacement and maintenance of equipment listed above within the chair lift system.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2021					
Replace Ski Lift Haul Rope	62,000	0	62,000		
Year Total	62,000	0	62,000		
	62,000	0	62,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2019	Jul 1, 2021	Sep 30, 2021	Mountain Operations Manager		



Project Summary

Project Number:	3462LE1720
Title:	2016 POLaris Ranger Crew #728
Project Type:	F - Rolling Stock
Division:	62 - Lift Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description

This project is for the scheduled replacement of the utility vehicles, by the Fleet Division, for the Diamond Peak Ski Resort's summer mountain maintenance program. These vehicles are necessary for the transport of repair parts and materials, utilized by staff for sloop and lift maintenance, where standard 4-wheel drive vehicles are unable to traverse. The vehicle replacement is subject to accrued maintenance cost, oil analysis reports and visual inspection for overall condition. This vehicle will be moved back in the CIP program if indicators reveal that no increase in equipment down time or elevated maintenance cost will result by deferring the replacement date.

Project Internal Staff

Project Justification

This utility vehicle is necessary for mountain access where standard 4-wheel drive pick-up trucks are unable to traverse. They are subjected to extreme operating conditions due to the harsh terrain they are required to navigate on a daily basis, for routine mountain sloop and lift maintenance. History shows that maintenance and repair cost exceeds equipment value should we continue to operate these vehicles past their scheduled rotation date, also resulting in excessive equipment down time.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024	19,000	0	19,000
Year Total	19,000	0	19,000
	19,000	0	19,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2015	Jul 1, 2024	Sep 30, 2024	Fleet Superintendent	



Project Summary

Project Number:	3463HE1721
Title:	2013 Snow blower #689
Project Type:	F - Rolling Stock
Division:	63 - Slope Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description	Scheduled replacement of IVGID Public Works snow blower, utilized in conjunction with Public Works Cat 950G wheel loaders. This is an attachment for #304 Cat loader necessary for blowing large accumulations of snow where smaller equipment is not able to handle. Specifically utilized to widen parking lots for increased parking capacity, roadways for safer operation and keeping water reservoir roads open for Utility Division crews maintenance and station repair requirements. This snow blower is on a 10-year replacement schedule subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Equipment will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Project Internal Staff	
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Project Justification	Vital piece of equipment for opening and maintaining roads and parking areas during and after large snow storms. The blower was moved back in the CIP 5-years which will make it 15-years old at time of replacement. This equipment is subject to extreme conditions and high stress loads during the entire time it's operated. This is a high maintenance piece of equipment, under constant repair throughout the season due to extreme vibration and frame stress cracks. The replacement schedule is subject to accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Equipment will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.
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Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Snow blower #309	165,900	0	165,900	
Year Total	165,900	0	165,900	
	165,900	0	165,900	

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3463HE1722
Title:	Loader Tire Chains (1-Set)
Project Type:	F - Rolling Stock
Division:	63 - Slope Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description			
1-sets of loader tire chains, utilized by the Cat 950G wheel loader #524. These chains are necessary for the safe operation of the loader during the winter snow removal season. These chains are on a 3-year replacement schedule.			
Project Internal Staff			
Fleet Maintenance Staff will manage this project			
Project Justification			
These chains are necessary for the safe operation of the loader during the winter snow removal season and have reached the end of their useful life.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Loader Tire Chains (1-Set)	9,750	0	9,750
Year Total	9,750	0	9,750
	9,750	0	9,750
Year Identified	Start Date	Est. Completion Date	Manager
2012			Fleet Superintendent
			Project Partner



Project Summary

Project Number:	3463HE1723
Title:	2002 Caterpillar 950G Loader #524
Project Type:	F - Rolling Stock
Division:	63 - Slope Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description			
This project is for the scheduled replacement of the Ski Resort bucket wheel loader. This loader is on a 15-year replacement cycle subject to equipment operating hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. The loader will be moved back in the CIP replacement program if indicators reveal no increased equipment down time or elevated maintenance cost will result by deferring the replacement date.			
Project Internal Staff			
Fleet Maintenance Staff will manage this project			
Project Justification			
This loader is critical to the operation of the Ski Resort to protect revenue and provide safe access for customers, residence and staff. Utilized during winter months for the snow removal requirements on Ski Way and several customer parking areas. This loader is also utilized in conjunction with an attached snow blower for keeping the parking areas widened out to prevent the loss of parking spaces. Additionally ski utilizes this equipment extensively during the summer for the continual maintenance requirements of the mountain operations division.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Caterpillar 950G Loader	265,000	0	265,000
Year Total	265,000	0	265,000
	265,000	0	265,000
Year Identified	Start Date	Est. Completion Date	Manager
2012			Fleet Superintendent
			Project Partner
			Municipal Lease Eligible



Project Summary

Project Number:	3463HE1727
Title:	Replacement of 2008 Grooming vehicle # 628
Project Type:	F - Rolling Stock
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	Lease Eligible
Asset Type:	HV - Heavy Duty Vehicles
Active:	Yes

Project Description				
This project is for the scheduled replacement of one of Diamond Peak's snow cats. This snow cat is on a 10-year replacement cycle subject to operating hours, accrued maintenance cost, oil analysis reports, visual inspection, and overall condition. Currently, Diamond Peak operates 5 snowcats on the mountain. This replacement plan calls for replacement of one cat every other year in the line grooming fleet (5 cats). Recent research by staff indicates that our local competitors are averaging 30 acres groomed per night for each cat in their fleet - Diamond Peak is currently grooming 32 acres per night for each of our 5 cats in the line grooming fleet. This snow cat will be moved back in the CIP replacement program if indicators reveal no increased equipment down time or elevated maintenance cost will result by deferring the replacement date.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
It is necessary to continue the routine replacement of our grooming equipment so that it is replaced prior to major component failure and to continue to stay abreast of industry changes and improvements to provide the best quality product for our skiing guests. Major component failure can cost more than the actual value of these vehicles as their age increases. These components can cost as much as \$25,000 for an engine or \$20,000 for a drive pump and motor set. There are 3-sets to each grooming vehicle. Grooming vehicles will only be replaced if serviceability, reliability, performance and economic factors dictate. Our records, as well as those of snow cat manufacturers, indicate that the hourly operating cost of a snow cat increases by more than 60% once they pass 8000 to 9000 operating hours. Additionally, downtime increases in direct proportion, diminishing the quality of our grooming product.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Replace Grooming Vehicle	390,000	0	390,000	
Year Total	390,000	0	390,000	
2025				
Replace Grooming Vehicle	29,083	0	29,083	
Year Total	29,083	0	29,083	
2030				
Replace Grooming Vehicle	420,000	0	420,000	
Year Total	420,000	0	420,000	
	839,083	0	839,083	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Oct 31, 2019	Fleet Superintendent	Municipal Lease Eligible



Project Summary

Project Number:	3463HE1728
Title:	Replacement of 2011 Grooming Vehicle # 645
Project Type:	F - Rolling Stock
Division:	63 - Slope Maintenance
Budget Year:	2020
Finance Option:	Lease Eligible
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description				
This project is for the scheduled replacement of one of Diamond Peak's snow cats. This snow cat is on a 10-year replacement cycle subject to operating hours, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Currently, Diamond Peak operates 5 snowcats on the mountain. This replacement plan calls for replacement of one cat every other year in the line grooming fleet (5 cats). Recent research by staff indicates that our local competitors are averaging 30 acres groomed per night for each cat in their fleet - Diamond Peak is currently grooming 32 acres per night for each of our 5 cats in the line grooming fleet. This snow cat will be moved back in the CIP replacement program if indicators reveal no increased equipment down time or elevated maintenance cost will result by deferring the replacement date.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
It is necessary to continue the routine replacement of our grooming equipment so that it is replaced prior to major component failure and to continue to stay abreast of industry changes and improvements to provide the best quality product for our skiing guests. Major component failure can cost more than the actual value of these vehicles as their age increases. These components can cost as much as \$25,000 for an engine or \$20,000 for a drive pump and motor set. There are 3-sets to each grooming vehicle. Grooming vehicles will only be replaced if serviceability, reliability, performance and economic factors dictate. Our records, as well as those of snow cat manufacturers, indicate that the hourly operating cost of a snow cat increases by more than 60% once they pass the 8000 to 9000 hour operating range. Additionally, downtime increases in direct proportion, diminishing the quality of our grooming product.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Replace Grooming Vehicle	400,000	0	400,000	
Year Total	400,000	0	400,000	
2025				
Replace Grooming Vehicle	89,286	0	89,286	
Year Total	89,286	0	89,286	
2026				
Replace Grooming Vehicle	89,286	0	89,286	
Year Total	89,286	0	89,286	
2027				
Replace Grooming Vehicle	29,628	0	29,628	
Year Total	29,628	0	29,628	
2032				
Replace Grooming Vehicle	425,000	0	425,000	
Year Total	425,000	0	425,000	
	1,033,200	0	1,033,200	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Oct 31, 2021	Fleet Superintendent	Municipal Lease Eligible



Project Summary

Project Number:	3464BD1403
Title:	Resurface Main Lodge Decks
Project Type:	E - Capital Maintenance
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
The Main Lodge decks were refinished and sealed in the fall of 2016. This project represents the normal cycle for deck resealing. The deck will be monitored by staff to determine the exact scheduling of the project.				
Project Internal Staff				
Staff will supervise and inspect contractor installation project.				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Diamond Peak asset and customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Contingency	9,000	0	9,000	
deck reseal	65,000	0	65,000	
internal services	1,200	0	1,200	
Year Total	75,200	0	75,200	
2025				
Contingency	7,500	0	7,500	
deck reseal	60,000	0	60,000	
internal services	1,200	0	1,200	
Year Total	68,700	0	68,700	
	143,900	0	143,900	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2014	Sep 1, 2020	Oct 1, 2020	Buildings Superintendent	



Project Summary

Project Number:	3464HE1902
Title:	Replace Snowmaking Air Compressor Microprocessor Control Units
Project Type:	G - Equipment & Software
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description	<p>The District owns a complex snowmaking system at Diamond Peak Ski Resort. The system was generally constructed between 1966, 1988 and 1999. The system is made up of 8 major components consisting of water pumping facility, compressed air manufacturing facility, fan and air/ water guns, underground air/water main lines, underground electrical power alignments, air and water lateral piping, hydrants and isolation valve stations.</p> <p>The equipment in the water pumping facility includes pumps, motors, cooling towers, motor control centers, air operated control valves, isolation valves, telemetry equipment, switches, process controls, piping and other miscellaneous equipment.</p> <p>The equipment in the air manufacturing facility includes centrifugal air compressors, motors, motor starters, water cooling towers, pumps, instrumentation, communication equipment, piping, isolation valves and other miscellaneous equipment.</p> <p>This project outlines the replacement of the (Two) current snowmaking air compressor microprocessor control units. The control units will replace the original control units on the 1988 C45 and the 1993 C90 air compressors.</p>
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Project Internal Staff	
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Project Justification	<p>The general purpose of this project is to improve our facilities through required upgrades, maintenance and improvements that directly or indirectly reflect on our guest's experience. This project is designed to maintain the value of the Diamond Peak Ski Resort asset and customer service. Staff has recently learned the control units are no longer supported by the manufacturer.</p>
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Forecast	
Budget Year	Total Expense Total Revenue Difference
2020	
Air Compressor Control Unit	60,000 0 60,000
Installation and Comissioning	40,000 0 40,000
Year Total	100,000 0 100,000
	100,000 0 100,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019			Mountain Operations Manager	



Project Summary

Project Number:	3464HE1908
Title:	1983 CASE 855C TRACK BACKHOE # 348
Project Type:	F - Rolling Stock
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description	<p>This purchase is for the replacement of the track backhoe at Diamond Peak, purchased in 1984, it will be 30-years old at time of replacement, parts availability have become a problem. Advancements in technology have made this equipment obsolete, both capacity and equipment cycle times of newer equipment will cut each job time in half from what operators are experiencing now. The life cycle of the replacement equipment will be in the 10 to 15-year range.</p>
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Project Internal Staff	
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Project Justification	<p>This equipment is essential for the maintenance and repairs of all underground snow making pipelines and utilities at the Diamond Peak ski resort. Any pipeline failure occurring on the snow making system during the ski season requires immediate action to prevent severe damage to the snow pack and ski runs. Rental equipment of this nature may not be available when needed or able to transport during snow storms or icy road conditions, due to equipment size and weight. The Ski Resort also utilizes this equipment for their ongoing erosion control and environmental projects. Additionally, the Utility Division Superintendent has indicated that this would eliminate the need for rental equipment for emergency pipeline repairs, where a backhoe may not be utilized. This equipment will also be utilized at the Wetlands for the annual grounds, dikes and cell restoration program.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Excavator	250,000	0	250,000
Year Total	250,000	0	250,000
	250,000	0	250,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Jul 1, 2019	Apr 30, 2020	Fleet Superintendent	



Project Summary

Project Number: 3464LE1601
Title: Ski Resort Snowmobile Fleet Replacement
Project Type: F - Rolling Stock
Division: 64 - Mountain Operations
Budget Year: 2020
Finance Option:
Asset Type: LE - Light Duty Service Equipment
Active: Yes

Project Description				
The snowmobiles at Diamond Peak are used for winter operations including Ski Patrol, Snow Making, Lift Maintenance/Operations, and Slope Maintenance. Diamond Peak also provides a snowmobile to the Utility Treatment Plant for emergency access to water and sewer pumping stations and water reservoirs. Due to heavy use in a harsh environment these machines experience accelerated wear and damage. With the help of computerized maintenance records and visual inspection Fleet staff has identified the useful life of this equipment to be six operating seasons and will determine the best replacement unit at time of schedule.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
Staff reduced the number of snowmobiles Diamond Peak operates from 11 to 7 and replaces them on a 6-year rotation. This reduces maintenance costs and insures an adequate number of machines available at all times to prevent negatively impacting any Ski Resort operation.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
	15,500	0	15,500	
Year Total	15,500	0	15,500	
2021				
	16,000	0	16,000	
Year Total	16,000	0	16,000	
2022				
	16,500	0	16,500	
Year Total	16,500	0	16,500	
2023				
	17,000	0	17,000	
Year Total	17,000	0	17,000	
2024				
	17,000	0	17,000	
Year Total	17,000	0	17,000	
	82,000	0	82,000	
Year Identified	Start Date	Est. Completion Date	Manager	
2015			Fleet Superintendent	
			Project Partner	



Project Summary

Project Number:	3464LE1729
Title:	Snowplow #304A
Project Type:	F - Rolling Stock
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>Purchase replacement snow plow utilized in conjunction with Utility Division loaders for winter snow removal requirements around the entire District. The areas include Diamond Peak parking lots, Skiway, Recreation Center, Administration, Public Works facilities, Water and Sewer pump stations, water reservoir roads and etc. Loader snow plows are on a 10-year replacement schedule subject to overall condition. The plow will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring the replacement date.</p>
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Project Internal Staff	<p>Fleet Maintenance Staff will manage this project</p>
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Project Justification	<p>This snowplow is critical to the operation of the District during the winter months. Necessary for snow removal of parking lots at Diamond Peak, Ski Way roadway, Recreation Center, Main office and other District facilities. Considered vital for the protection of public health and safety and revenue for the recreation venues. The scheduled replacement of this equipment will be subject to accrued maintenance cost, visual inspection and overall condition. Plow will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Snowplow	19,000	0	19,000
Year Total	19,000	0	19,000
2031			
Snowplow	21,000	0	21,000
Year Total	21,000	0	21,000
	40,000	0	40,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013			Fleet Superintendent	



Project Summary

Project Number:	3464LE1734
Title:	2016 Polaris Ranger Crew #723
Project Type:	F - Rolling Stock
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
This project is for the scheduled replacement of the utility vehicles, by the Fleet Division, for the Diamond Peak Ski Resort's summer mountain maintenance program. These vehicles are necessary for the transport of repair parts and materials, utilized by staff for sloop and lift maintenance, where standard 4-wheel drive vehicles are unable to traverse. The vehicle replacement is subject to accrued maintenance cost, oil analysis reports and visual inspection for overall condition. This vehicle will be moved back in the CIP program if indicators reveal that no increase in equipment down time or elevated maintenance cost will result by deferring the replacement date.				
Project Internal Staff				
Project Justification				
This utility vehicle is necessary for mountain access where standard 4-wheel drive pick-up trucks are unable to traverse. They are subjected to extreme operating conditions due to the harsh terrain they are required to navigate on a daily basis, for routine mountain sloop and lift maintenance. History shows that maintenance and repair cost exceeds equipment value should we continue to operate these vehicles past their scheduled rotation date, also resulting in excessive equipment down time.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2023	19,000	0	19,000	
Year Total	19,000	0	19,000	
	19,000	0	19,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2015	Jul 1, 2024	Sep 30, 2024	Fleet Superintendent	



Project Summary

Project Number:	3464LV1730
Title:	2014 Yamaha ATV #695
Project Type:	F - Rolling Stock
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description

This project is for the scheduled replacement of the All Terrain Vehicles, by the Fleet Division, for the Diamond Peak Ski Resort's summer mountain maintenance program. These vehicles are utilized by staff for mountain sloop and lift maintenance, where standard 4-wheel drive vehicles are unable to traverse. The vehicle replacement is subject to accrued maintenance cost, oil analysis reports and visual inspection for overall condition. This vehicle will be moved back in the CIP program if indicators reveal that no increase in equipment down time or elevated maintenance cost will result by deferring the replacement date.

Project Internal Staff

Fleet Maintenance Staff will manage this project

Project Justification

This ATV is necessary for mountain access where standard 4-wheel drive pick-up trucks are unable to traverse. They are subjected to extreme operating conditions due to the harsh terrain they are required to navigate on a daily basis, for routine mountain sloop and lift maintenance. History shows that maintenance and repair cost exceeds equipment value should we continue to operate these vehicles past their scheduled rotation date, also resulting in excessive equipment down time.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Replace ATV	19,000	0	19,000
Year Total	19,000	0	19,000
2026			
Replace ATV	12,000	0	12,000
Year Total	12,000	0	12,000
2032			
Replace ATV	14,000	0	14,000
Year Total	14,000	0	14,000
	45,000	0	45,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2015	Jul 1, 2019	Sep 30, 2019	Fleet Superintendent	



Project Summary

Project Number:	3464LV1731
Title:	2012 Yamaha ATV #683
Project Type:	F - Rolling Stock
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description

This project is for the scheduled replacement of the All Terrain Vehicles, by the Fleet Division, for the Diamond Peak Ski Resort's summer mountain maintenance program. These vehicles are utilized by staff for mountain sloop and lift maintenance, where standard 4-wheel drive vehicles are unable to traverse. The vehicle replacement is subject to accrued maintenance cost, oil analysis reports and visual inspection for overall condition. This vehicle will be moved back in the CIP program if indicators reveal that no increase in equipment down time or elevated maintenance cost will result by deferring the replacement date.

Project Internal Staff

Fleet Maintenance Staff will manage this project

Project Justification

This ATV is necessary for mountain access where standard 4-wheel drive pick-up trucks are unable to traverse. They are subjected to extreme operating conditions due to the harsh terrain they are required to navigate on a daily basis, for routine mountain sloop and lift maintenance. History shows that maintenance and repair cost exceeds equipment value should we continue to operate these vehicles past their scheduled rotation date, also resulting in excessive equipment down time.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Replace ATV	18,000	0	18,000
Year Total	18,000	0	18,000
2026			
Replace ATV	18,000	0	18,000
Year Total	18,000	0	18,000
2032			
Replace ATV	20,000	0	20,000
Year Total	20,000	0	20,000
	56,000	0	56,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2020	Sep 30, 2020	Fleet Superintendent	



Project Summary

Project Number:	3464LV1732
Title:	2013 Yamaha Rhino (ATV) #674
Project Type:	F - Rolling Stock
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description				
This project is for the scheduled replacement of the utility vehicles, by the Fleet Division, for the Diamond Peak Ski Resort's summer mountain maintenance program. These vehicles are necessary for the transport of repair parts and materials, utilized by staff for sloop and lift maintenance, where standard 4-wheel drive vehicles are unable to traverse. The vehicle replacement is subject to accrued maintenance cost, oil analysis reports and visual inspection for overall condition. This vehicle will be moved back in the CIP program if indicators reveal that no increase in equipment down time or elevated maintenance cost will result by deferring the replacement date.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This utility vehicle is necessary for mountain access where standard 4-wheel drive pick-up trucks are unable to traverse. They are subjected to extreme operating conditions due to the harsh terrain they are required to navigate on a daily basis, for routine mountain sloop and lift maintenance. History shows that maintenance and repair cost exceeds equipment value should we continue to operate these vehicles past their scheduled rotation date, also resulting in excessive equipment down time.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Replace Yamaha Rhino	21,000	0	21,000	
Year Total	21,000	0	21,000	
2026				
Replace Yamaha Rhino	22,000	0	22,000	
Year Total	22,000	0	22,000	
	43,000	0	43,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Sep 1, 2019	Fleet Superintendent	



Project Summary

Project Number:	3464ME1802
Title:	Diamond Peak Fuel Storage Facility
Project Type:	D - Capital Improvement - Existing Facilities
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	ME - Mechanical Equipment
Active:	Yes

Project Description				
This project is to replace underground fuel storage tanks for diesel located at the Main Lodge parking lot and gasoline tank located at vehicle maintenance shop. these tanks were originally installed in 1994 and are reaching the end of service life				
Project Internal Staff				
Project Justification				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Diamond Peak Fuel Storage Facility	20,000	0	20,000	
Year Total	20,000	0	20,000	
2023				
Diamond Peak Fuel Storage Facility	400,000	0	400,000	
Year Total	400,000	0	400,000	
	420,000	0	420,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2018			Fleet Superintendent	



Project Summary

Project Number:	3464ME1907
Title:	Diesel Exhaust Fluid Storage/Dispenser
Project Type:	F - Rolling Stock
Division:	64 - Mountain Operations
Budget Year:	2020
Finance Option:	
Asset Type:	ME - Mechanical Equipment
Active:	Yes

Project Description			
This project is to purchase and install Diesel Exhaust Fluid containment and dispenser unit near the existing diesel pump at Diamond Peak. With the new snow cats being equipped with Tier 4 emissions engines these machines burn about 300 gallons of this fluid per operating season. In the future Diamond Peak will operate five snow cats that will require this fluid. Also future replacements of other diesel equipment such as loaders will require this fluid.			
Project Internal Staff			
This containment system will require additional power to be ran to the location for heating and the pump. Existing power already at the fuel pump will not support any additional equipment. Other requirements such as if a concrete pad needs to be poured needs to be determined			
Project Justification			
Currently staff is supplying Diesel Exhaust Fluid using 55 gallon drums and transporting them up to the maintenance shop and hand pumping in to the snowcat. When more of these machines come on line there will not be adequate storage for this. Locating this dispenser/containment near the diesel pump will allow it to be connected to the existing FuelMaster system for tracking and inventory. this containment system hold two 330 gallon totes of fluid and totes can be changed using load forks attached to a snowcat.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
DEF Dispenser	20,000	0	20,000
Year Total	20,000	0	20,000
	20,000	0	20,000
Year Identified	Start Date	Est. Completion Date	Manager
2019	Jul 1, 2019	Oct 31, 2019	
			Project Partner



Project Summary

Project Number: 3464SI1002
Title: Fan Guns Purchase and Refurbishment
Project Type: G - Equipment & Software
Division: 64 - Mountain Operations
Budget Year: 2020
Finance Option:
Asset Type: SI - Slope & Mountain Improvements
Active: Yes

Project Description			
This project maintains and enhances the District's airless snowmaking technology (fan guns, etc.) to reduce the noise factor associated with conventional snowmaking and to maximize our efficient use of water and electricity. For 2018 and 2020, the project will replace two aging and failing fan guns purchased in 1991 and will add two new fans to bring the fleet total to 16-fan guns. 16-fan guns represents full build-out for Diamond Peak.			
Project Internal Staff			
Mountain and Slope Operations staff will select the units for refurbishing based on service analysis.			
Project Justification			
The primary goal of snowmaking is to be able to better guarantee opening an acceptable quantity of terrain on only machine-made snow for the Christmas holidays each ski season. Snowmaking capacity and efficiency is necessary to keep the ski resort competitive by providing a variety of terrain, depth of snow coverage, timing of our initial opening and duration of the season, so that we may effectively compete with neighboring resorts.			
Additional capacity, as well as a more efficient snowmaking system, enhance our ability to deliver a complete and competitive product in years of light natural snowfall and, more importantly, virtually guarantees (temperatures permitting) our ability to open the mountain with a variety of top-to-bottom skiing for the Christmas holidays. Expansion of our airless snowmaking capacity (fan guns) will complement our existing compressed air system by allowing us to make more efficient use of electricity as well as reducing noise levels in the base area and other parts of the mountain.			
Additionally, the fan guns will allow us to maximize water flow each time snow is made, taking advantage of the increase in water capacity created over the past two years. By maximizing our new water capacity (with the new fan guns) we will be able to finish our snowmaking earlier in the season. Utilizing more fun guns will also allow us to avoid mid-peak electricity charges in January. This has the potential of savings \$20-30,000 for the season in electric costs.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Purchase 3 Additional Fan Guns	130,000	0	130,000
Year Total	130,000	0	130,000
	130,000	0	130,000
Year Identified	Start Date	Est. Completion Date	Manager
2012			Mountain Operations Manager
			Project Partner



Project Summary

Project Number:	3467LE1703
Title:	Child Ski Center Surface Lift
Project Type:	C - Capital Improvement - New Initiatives
Division:	67 - Child Ski Center
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description			
The District owns 6 aerial ski lifts and 1 surface lift at Diamond Peak Ski Resort. This project describes the procurement and installation of an additional surface lift within the Child Ski Center learning area.			
Project Internal Staff			
IVGID Engineering, Diamond Peak Staff			
Project Justification			
This project will expand the on-mountain lift capacity for Child Ski Center lessons.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Child Ski Center Surface Lift	65,000	0	65,000
Year Total	65,000	0	65,000
	65,000	0	65,000
Year Identified	Start Date	Est. Completion Date	Manager
2017			Ski Resort General Manager
			Project Partner



Project Summary

Project Number:	3468RE0002
Title:	Replace Ski Rental Equipment
Project Type:	G - Equipment & Software
Division:	68 - Rental & Repair
Budget Year:	2020
Finance Option:	
Asset Type:	RE - Rental Equipment
Active:	Yes

Project Description
 The District owns and maintains a fleet of 1,405 skis and bindings (ranging in size from 70cm to 188cm), 1,550 ski boots, 330 snowboards, and 400 snowboard boots in its rental shop. The rental shop equipment replacement purchases are part of a comprehensive program to maintain a functional and reliable rental fleet at Diamond Peak. This ongoing program replaces rental equipment on a four year cycle and is vital to ensuring a safe and enjoyable experience for the guests at Diamond Peak that utilize the rental shop.

Project Internal Staff

Project Justification
 The general purpose of this project is to improve our facilities through required maintenance and replacement improvements that directly or indirectly reflect on our guest's experience. This project is designed to maintain the value of the Diamond Peak Ski Resort asset and customer service. In addition to rental equipment, the shop also purchases demo ski and snowboard equipment, as well as helmets. These may be included in the purchase order with vendors, but is not considered capital equipment because they turnover in 2 years or less.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Adult skis and boots	200,000	0	200,000
Year Total	200,000	0	200,000
2021			
Snowboard equipment	185,000	0	185,000
Year Total	185,000	0	185,000
2023			
Children skis and boots	150,000	0	150,000
Year Total	150,000	0	150,000
	535,000	0	535,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016			Director of Skier Services	



Project Summary

Project Number:	3468RE1609
Title:	Replace Ski Rental Machinery
Project Type:	G - Equipment & Software
Division:	68 - Rental & Repair
Budget Year:	2020
Finance Option:	
Asset Type:	RE - Rental Equipment
Active:	Yes

Project Description			
This project describes the replacement of Hyatt Sport Shop rental equipment storage units. The current storage units accommodate Skis, Ski Boots, Ski Poles, Snow Boards and Snow Board Boots			
Project Internal Staff			
Diamond Peak Staff will manage this project.			
Project Justification			
The general purpose of this project is to improve our facilities through required maintenance and replacement improvements that directly or indirectly reflect our guest experience. This project is designed to maintain the value of the Diamond Peak Ski Resort, Hyatt Sport Shop asset and customer service.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Replace ski rental machinery	36,000	0	36,000
Year Total	36,000	0	36,000
	36,000	0	36,000
Year Identified	Start Date	Est. Completion Date	Manager
2015			Director of Skier Services
			Project Partner



Project Summary

Project Number:	3469HE1739
Title:	Replace 2010 Shuttle Bus #635
Project Type:	F - Rolling Stock
Division:	69 - Property, Parking & Transportation
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description					
This project is for the scheduled replacement of one of Diamond Peak's 36-passenger shuttle buses. The Diamond Peak buses are on a 10-year replacement cycle subject to operating mileage, accrued maintenance cost, oil analysis reports, visual inspection, and overall condition. Buses will be moved back in the CIP if indicators reveal that no increase in vehicle down time or elevated maintenance cost will result by deferring the replacement date. Replacement procurement is budgeted assuming a total purchase price of \$130,000 utilizing a 7-year municipal lease with the District assuming ownership and the end of the lease term.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This 36 passenger bus is used for transportation during the operating season of Diamond Peak to shuttle customers from locations throughout the community and the parking areas to the Base Lodge. This bus also get used during the off season for youth programs and special events during the summer months.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2021					
Shuttle Bus	130,000	0	130,000		
Year Total	130,000	0	130,000		
	130,000	0	130,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012			Fleet Superintendent		



Project Summary

Project Number:	3469HE1740
Title:	Replace 2010 Shuttle Bus #636
Project Type:	F - Rolling Stock
Division:	69 - Property, Parking & Transportation
Budget Year:	2020
Finance Option:	
Asset Type:	HE - Heavy Duty Service Equipment
Active:	Yes

Project Description			
This project is for the scheduled replacement of one of Diamond Peak's 36-passenger shuttle buses. The Diamond Peak buses are on a 10-year replacement cycle subject to operating mileage, accrued maintenance cost, oil analysis reports, visual inspection, and overall condition. Buses will be moved back in the CIP if indicators reveal that no increase in vehicle down time or elevated maintenance cost will result by deferring the replacement date. Replacement procurement is budgeted assuming a total purchase price of \$130,000 utilizing a 7-year municipal lease with the District assuming ownership and the end of the lease term.			
Project Internal Staff			
Fleet Maintenance Staff will manage this project			
Project Justification			
This 36 passenger bus is used for transportation during the operating season of Diamond Peak to shuttle customers from locations throughout the community and the parking areas to the Base Lodge. This bus also get used during the off season for youth programs and special events during the summer months.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Shuttle Bus	130,000	0	130,000
Year Total	130,000	0	130,000
	130,000	0	130,000
Year Identified	Start Date	Est. Completion Date	Manager
2012	Jul 1, 2020	Nov 1, 2020	Fleet Superintendent
			Project Partner



Project Summary

Project Number:	3469LI1105
Title:	Pavement Maintenance, Diamond Peak and Ski Way
Project Type:	E - Capital Maintenance
Division:	69 - Property, Parking & Transportation
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description

Continued maintenance and repair of roadway and parking lot facility. The upper lots include approximately 307,000 sf of pavement and the lower lot across from the Bullwheel building is approximately 43,000 sf. The Engineering Division maintains a database on this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs.

Project Internal Staff

This project will be managed by the District's Engineering Division in coordination with Diamond Peak Staff

Project Justification

Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. Ski Way (above Fairview) to Tyrolian Village and the Diamond Peak parking lots are all owned by IVGID. The pavement condition affects rideability in both customers' own vehicles and while riding the Diamond Peak tram. The majority of the parking lot is showing advanced signs of distress and reconstruction is recommended with heavy maintenance until then. Asphalt constructed in 2010 at the Skier Services Building is due for an overlay. Pending agency approvals parking modifications are planned in the bottom lot to create more space to restripe and improve parking.

Forecast

Budget Year	Total Expense	Total Revenue	Difference
2020			
Crack fill and Maintenance	25,000	0	25,000
Internal Services	5,000	0	5,000
Section Replacement	25,000	0	25,000
Year Total	55,000	0	55,000
2021			
Construction	180,000	0	180,000
Crack fill and Maintenance	25,000	0	25,000
Inspection and Testing	5,000	0	5,000
Internal Services	10,000	0	10,000
Year Total	220,000	0	220,000
2022			
Internal Services	5,000	0	5,000
Replace alligatored areas	100,000	0	100,000
Year Total	105,000	0	105,000
2023			
Internal Services	5,000	0	5,000
Replace alligatored areas	100,000	0	100,000
Year Total	105,000	0	105,000

2024			
Construction	100,000	0	100,000
Year Total	<u>100,000</u>	<u>0</u>	<u>100,000</u>
2026			
Crack fill and Maintenance	10,000	0	10,000
Year Total	<u>10,000</u>	<u>0</u>	<u>10,000</u>
2028			
Construction	100,000	0	100,000
Year Total	<u>100,000</u>	<u>0</u>	<u>100,000</u>
2030			
Crack fill and Maintenance	20,000	0	20,000
Year Total	<u>20,000</u>	<u>0</u>	<u>20,000</u>
2032			
Construction	100,000	0	100,000
Year Total	<u>100,000</u>	<u>0</u>	<u>100,000</u>
2034			
Crack fill and Maintenance	20,000	0	20,000
Year Total	<u>20,000</u>	<u>0</u>	<u>20,000</u>
2036			
Construction	100,000	0	100,000
Year Total	<u>100,000</u>	<u>0</u>	<u>100,000</u>
	935,000	0	935,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2029	Senior Engineer	



Project Summary

Project Number:	3469LI1805
Title:	Ski Way and Diamond Peak Parking Lot Reconstruction
Project Type:	B - Major Projects - Existing Facilities
Division:	69 - Property, Parking & Transportation
Budget Year:	2020
Finance Option:	Bond Eligible
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description			
This project will reconstruct and reconfigure Ski Way and the Diamond Peak Parking Lots to address pavement failure, improve traffic safety, and enhance traffic circulation. Ski Way will be modified with improvements which may include widening to enhance safety, pedestrian access, and parking layout. Bullwheel parking lot will be reconstructed and reconfigured to help maintain parking counts.			
Project Internal Staff			
IVGID Engineering to manage all phases of the project in coordination with Diamond Peak Staff. Outside engineer(s) to study and prepare design and bid documents. IVGID Engineering to manage bidding and contract administration. Work to be done by outside contractor. Construction Management and Special Inspection and Testing to be done by consultant.			
Project Justification			
Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. Ski Way (above Fairview) to Tyrolian Village and the Diamond Peak parking lots are all owned by IVGID. The pavement condition affects rideability in both customers' own vehicles and while riding the Diamond Peak tram. Visual inspection and a 2017 geotechnical investigation has determined that pavement at Diamond Peak and Ski Way is at end of structural life and must be reconstructed. Safety and circulation improvement opportunities were identified in a 2015 Traffic Safety Review by LSC Transportation.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Construction Bullwheel K Rail	200,000	0	200,000
Internal Services	15,000	0	15,000
Pavement coring	10,000	0	10,000
Year Total	225,000	0	225,000
2021			
Design Engineering Services	250,000	0	250,000
Internal Services	50,000	0	50,000
Year Total	300,000	0	300,000
2022			
Construction calendar 2022	2,575,000	0	2,575,000
Construction Management and Special Inspection	50,000	0	50,000
Design Engineering Services	75,000	0	75,000
Internal Services	50,000	0	50,000
Year Total	2,750,000	0	2,750,000
	3,275,000	0	3,275,000
Year Identified	Start Date	Est. Completion Date	Manager
			Project Partner

2018	Jul 1, 2019	Dec 31, 2022	Engineering Manager	
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Project Summary

Project Number:	3469LI1805B
Title:	Roundabout Alternative for Ski Way Timing to be coordinated with summer operations
Project Type:	B - Major Projects - Existing Facilities
Division:	69 - Property, Parking & Transportation
Budget Year:	2020
Finance Option:	Bond Eligible
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description			
This project will reconstruct and reconfigure Ski Way and the Diamond Peak Parking Lots to address pavement failure, improve traffic safety, and enhance traffic circulation. Ski Way will be modified with improvements which may include widening to enhance safety, pedestrian access, and parking layout. Bullwheel parking lot will be reconstructed and reconfigured to help maintain parking counts.			
Project Internal Staff			
IVGID Engineering to manage all phases of the project in coordination with Diamond Peak Staff. Outside engineer(s) to study and prepare design and bid documents. IVGID Engineering to manage bidding and contract administration. Work to be done by outside contractor. Construction Management and Special Inspection and Testing to be done by consultant.			
Project Justification			
Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. Ski Way (above Fairview) to Tyrolian Village and the Diamond Peak parking lots are all owned by IVGID. The pavement condition affects rideability in both customers' own vehicles and while riding the Diamond Peak tram. Visual inspection and a 2017 geotechnical investigation has determined that pavement at Diamond Peak and Ski Way is at end of structural life and must be reconstructed. Safety and circulation improvement opportunities were identified in a 2015 Traffic Safety Review by LSC Transportation.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Construction calendar 2022	1,925,000	0	1,925,000
Construction Management and Special Inspection	50,000	0	50,000
Design Engineering Services	75,000	0	75,000
Internal Services	50,000	0	50,000
Year Total	2,100,000	0	2,100,000
	2,100,000	0	2,100,000
Year Identified	Start Date	Est. Completion Date	Manager
2018	Jul 1, 2019	Jun 30, 2023	Engineering Manager
			Project Partner



Project Summary

Project Number:	3469LV1735
Title:	2007 Chevy 1-Ton Pick-Up #596
Project Type:	F - Rolling Stock
Division:	69 - Property, Parking & Transportation
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description				
This project is for the scheduled replacement of vehicles by the Fleet Division for the Diamond Peak Ski Resort. Vehicles are on a 10-year replacement program subject to mileage/hours accumulated, accrued maintenance cost, oil analysis reports and visual inspection. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This truck is critical to the operation of the Ski resort, utilized during the ski season for towing the ski passenger tram(s) around the different parking areas. Summer use includes general transportation needs of staff and transport of maintenance and repair parts, materials and supplies for administration and mountain operations.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Chevy 1-Ton Pick Up	40,000	0	40,000	
Year Total	40,000	0	40,000	
2030				
Chevy 1-Ton Pick Up	45,000	0	45,000	
Year Total	45,000	0	45,000	
	85,000	0	85,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	3469LV1736
Title:	2007 Chevy 1-Ton Pick-Up #597
Project Type:	F - Rolling Stock
Division:	69 - Property, Parking & Transportation
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description					
This project is for the scheduled replacement of vehicles by the Fleet Division for the Diamond Peak Ski Resort. Vehicles are on a 10-year replacement program subject to mileage/hours accumulated, accrued maintenance cost, oil analysis reports and visual inspection. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This truck is critical to the operation of the Ski resort, utilized during the ski season for towing the ski passenger tram(s) around the different parking areas. Summer use includes general transportation needs of staff and transport of maintenance and repair parts, materials and supplies for administration and mountain operations.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2022					
Chevy 1-Ton Pick Up	40,000	0	40,000		
Year Total	40,000	0	40,000		
2030					
Chevy 1-Ton Pick Up	45,000	0	45,000		
Year Total	45,000	0	45,000		
	85,000	0	85,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012			Fleet Superintendent		



Project Summary

Project Number:	3469LV1737
Title:	1991 Ski Passenger Tram #267
Project Type:	F - Rolling Stock
Division:	69 - Property, Parking & Transportation
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description		This project is for the scheduled replacement of passenger trams by the Fleet Division for the Diamond Peak Ski Resort. Passenger trams are on a 20-year replacement program subject to accrued maintenance cost, visual inspection and overall condition. Tram will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring the replacement date.	
Project Internal Staff		Fleet Maintenance Staff will manage this project	
Project Justification		This passenger tram is critical to the operation of the Ski Resort and considered a revenue producing piece of equipment. The trams are utilized during the ski season for the rapid transport of customers from the different parking areas to the ticket area.	
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Ski Passenger Tram	22,700	0	22,700
Year Total	22,700	0	22,700
	22,700	0	22,700
Year Identified	Start Date	Est. Completion Date	Manager
2012	Jul 1, 2021	Dec 1, 2021	Fleet Superintendent
			Project Partner



Project Summary

Project Number:	3469LV1738
Title:	1993 Ski Passenger Tram #283
Project Type:	F - Rolling Stock
Division:	69 - Property, Parking & Transportation
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description			
This project is for the scheduled replacement of passenger trams by the Fleet Division for the Diamond Peak Ski Resort. Passenger trams are on a 20-year replacement program subject to accrued maintenance cost, visual inspection and overall condition. Tram will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring the replacement date.			
Project Internal Staff			
Fleet Maintenance Staff will manage this project			
Project Justification			
This passenger tram is critical to the operation of the Ski Resort and considered a revenue producing piece of equipment. The trams are utilized during the ski season for the rapid transport of customers from the different parking areas to the ticket area.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Ski Passenger Tram	23,400	0	23,400
Year Total	23,400	0	23,400
	23,400	0	23,400
Year Identified	Start Date	Est. Completion Date	Manager
2012	Jul 1, 2022	Dec 1, 2022	Fleet Superintendent
			Project Partner



Project Summary

Project Number:	3499BD1710
Title:	Diamond Peak Facilities Flooring Material Replacement
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Ski
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
This project outlines the periodic replacement of flooring materials within the Diamond Peak facilities.				
Project Internal Staff				
The Building's Department will manage all phases of the project				
Project Justification				
Long Range Principle #5 - The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest's experience. This project is designed to maintain the value of the Diamond Peak Ski Resort asset and customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Main Lodge Lower Lever - Flooring	25,000	0	25,000	
Snowflake Lodge - Flooring	18,000	0	18,000	
Year Total	43,000	0	43,000	
2021				
Skier Service Administration - Flooring	20,000	0	20,000	
Skiers Service Concrete Resurface	20,000	0	20,000	
Year Total	40,000	0	40,000	
2022				
Main Lodge - Flooring	36,000	0	36,000	
Skier Service Building Child Ski Center - Flooring	26,000	0	26,000	
Year Total	62,000	0	62,000	
	145,000	0	145,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	Jul 1, 2019	Jun 30, 2022	Mountain Operations Manager	



Project Summary

Project Number:	3499BD1904
Title:	Ski Rental Shop Doors
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Ski
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description					
Replace the Double Doors facing south on the exterior of the Ski rental shop. This includes the frame the threshold and new crash bars and locks. New equipment will be better quality to stand up to the abuse of the rental shop.					
Project Internal Staff					
Buildings Department will assist the contractors.					
Project Justification					
Doors are damaged beyond repair due to years of abuse from rental equipment. To ensure safety and security they will need replaced. New doors and hardware will be of better quality to stand up to the abuse better.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2020					
Contingency	2,000	0	2,000		
Double Doors	10,000	0	10,000		
Internal Services	1,000	0	1,000		
Year Total	13,000	0	13,000		
	13,000	0	13,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2019	Jul 1, 2019	Jul 31, 2019	Assistant Buildings Superintendent		



Project Summary

Project Number:	3499BD1905
Title:	HVAC Control Changeout
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Ski
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Change the HVAC monitoring equipment to match the rest of the district. Switch to the Alerton system which is currently running at the chateau and the Recreation center. The current dated system needs replaced. Replacing in kind with the rest of the district to mainstream both training and service. Removing the old controls and running a Alerton system which will be visible on a central computer in the buildings office. This computer also has the other districts venues already .				
Project Internal Staff				
Buildings Department to assist the contractor.				
Project Justification				
The current system is unable to deliver the information we need to control the HVAC systems at the Ski Resort in a satisfactory manner. Technology is dated and offers us the opportunity to have the same controls district wide which aides in both in-house training and contracted servicing. The unit we would replace it with, we have had in service for 8 years elsewhere in the district. The system has proven to be both reliable and able to be updated to keep up with new advancements when they come along.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Contingency	2,000	0	2,000	
HVAC - Allerton	18,000	0	18,000	
Internal Services	1,000	0	1,000	
Year Total	21,000	0	21,000	
	21,000	0	21,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Jul 1, 2019	Jul 31, 2019	Assistant Buildings Superintendent	



Project Summary

Project Number: 3499CE1909
Title: Ecommerce / Middleware Software
Project Type: G - Equipment & Software
Division: 99 - General Administration - Ski
Budget Year: 2020
Finance Option:
Asset Type: CE - Communications Equipment
Active: Yes

Project Description			
Ecommerce/Middleware software for Diamond Peak and other District recreation venues. IVGID is looking for an ecommerce and middleware vendor to provide an ecommerce platform for Diamond Peak and other District venues that includes current best practices in ecommerce functionality and integrates robustly with the District's venue management platforms.			
Project Internal Staff			
Information Technology / Marketing			
Project Justification			
Diamond Peak installed RTP ONE resort management software during the 2015-16 ski season, and has since found the included RTP eStore ecommerce platform lacking in several vital features required to successfully sell products online. Specifically: a mobile-optimized/responsive experience for customers on mobile devices, the capability to discount products for residents based on current resident status, and the ability to successfully sell products with inventory pools (e.g. lesson packages).			
Implementing a modern ecommerce, solution that integrates with the RTP ONE database will help Diamond Peak to promote the best online experience possible for each guest, will enhance the resort's ability to capture guest contact data, and will increase overall and incremental ecommerce revenue.			
In choosing an ecommerce platform, the District will implement a solution that also provides robust and adaptable middleware connectivity and data integration between the RTP ONE database and the District's other venue and resident management systems such as Vermont Systems, Capstone and Parcel Master, allowing for a seamless resident experience at the District's recreation venues.			
The district was quoted two license options, one at \$75,000 per year with a \$32,000 implementation fee and the second as a perpetual license for \$170,000 with a \$32,000 implementation fee. It is believed the district will benefit from having this solution for longer than the 2.26 years it would take to pay off the yearly license.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Implementation / Design Cost	32,000	0	32,000
Perpetual License	170,000	0	170,000
Year Total	202,000	0	202,000
	202,000	0	202,000
Year Identified	Start Date	Est. Completion Date	Manager
2019	Jul 15, 2019	Oct 1, 2019	IT Analyst
			Project Partner



Project Summary

Project Number:	3499FF1607
Title:	Skier Services Building Customer Service Counter
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Ski
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description					
Installation of a longer customer service counter adjacent to existing customer service, ticket revenue entrance door in the lower level of stair 1. The existing configuration of the guest service window can be awkward for staff to enter the revenue office during a customer interaction. Although staff is aware of the interruption we impose on the guest, it is sometimes unavoidable when we have to exit or enter the revenue office. The project is budgeted conservatively anticipating significant work to expand the available electrical and data services.					
Project Internal Staff					
Staff will supervise and inspect contractor installation project					
Project Justification					
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements. The project will enhance customer flow through the customer service process while improving staff access to the back of house.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2020					
Counter	12,000	0	12,000		
Year Total	12,000	0	12,000		
	12,000	0	12,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2019	Jul 1, 2019	Sep 30, 2019	Principal Engineer		



Project Summary

Project Number:	3499OE1205
Title:	Replace Staff Uniforms
Project Type:	G - Equipment & Software
Division:	99 - General Administration - Ski
Budget Year:	2020
Finance Option:	
Asset Type:	OE - Office Equipment
Active:	Yes

Project Description				
Diamond Peak Staff uniforms, consisting of a Jacket, Pant and Mid-layer. Quantities to include 335 sets, plus additional Mid-layers. Each individual piece to include Diamond Peak logo. Specification to include adequate tear proof, waterproofing and general durability to remain in service four(4) years. Supplier to provide assurance of availability of replacements for 4 years.				
Project Internal Staff				
Each year staff assesses condition of uniforms, including reconciling the counts with employee's returning issued garments. Uniforms are cleaned and stored for the off-season.				
Project Justification				
Staff uniforms have been extended from their previous expected life of 3 years to an expected life of 4 years due to the improvements in materials and quality of manufacturing that we have seen in recent years.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Uniforms	130,000	0	130,000	
Year Total	130,000	0	130,000	
	130,000	0	130,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Ski Resort General Manager	



Project Summary

Project Number:	3499OE1502
Title:	Skier Services Administration Printer Copier Replacement 1210 Ski Way
Project Type:	G - Equipment & Software
Division:	99 - General Administration - Ski
Budget Year:	2020
Finance Option:	
Asset Type:	OE - Office Equipment
Active:	Yes

Project Description				
Replacement of the large volume color/black printer copier located at the second floor administration offices. It supports all administration functions as well as the District wide Marketing and Sales Department. It provides volume processing for the Ticketing Office, Ski School and Child Ski Center. This device should be replaced every five years which is industry standard. On average the cost of ownership increases after the fifth year as a result of increased maintenance fees. This project is only for the cost of the device and does not include monthly maintenance charges, which is part of the District's comprehensive maintenance plan.				
Project Internal Staff				
The IT Technician oversees the maintenance and care and condition assessment of this device.				
Project Justification				
The current volume printer copier averages 15,000 images a month. It is a Xerox WorkCentre 7835 purchased in 2015. Life cycle is 720,000 images. The meter read at 1/1/16 was 44,600. The proposed new device will be based on industry comparisons for functionality and capacity considering the best pricing we can get from state or local contracts.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
	10,000	0	10,000	
Year Total	10,000	0	10,000	
2025				
	15,000	0	15,000	
Year Total	15,000	0	15,000	
2030				
	15,000	0	15,000	
Year Total	15,000	0	15,000	
	40,000	0	40,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2014	Jul 1, 2019	Jun 30, 2020	Director of IT	



Project Summary

Project Number:	3653BD1501
Title:	2015 Ski Area Master Plan Implementation - Entitlements and Pre-Design
Project Type:	A - Major Projects - New Initiatives
Division:	53 - Ski Master Plan Implementation
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description

The goal of the Diamond Peak Ski Area Master Plan is to provide new amenities and activities for the community of and guests to the communities of Incline Village and Crystal Bay. Phases 1a and 1b prioritizes revenue-generating activities to generate up-front net operating income to offset the capital costs of subsequent phases. Phase 1a also includes completing the necessary environmental entitlements (including an Environmental Impact Statement to satisfy TRPA and National Environmental Policy Act requirements) to allow all phases of the Master Plan to be approved by the TRPA and the USFS and allow the updated Master Plan to be adopted by TRPA as the master plan of record for Diamond Peak.

Activities budgeted for implementation in Phase 1a (pending Board Authorization) include:

- Challenge Course
- Canopy Tour
- Mountain Bike Trails
- Family/Kid's Base Area Bike Loop
- Kid's Pump Track
- Bike Skills Park
- Hiking Trail Improvements
- An Upgrade of the Lakeview Lift Download Capacity
- Formalization of Golden Eagle Bowl Egress

Phase 1b is the implementation (pending Board authorization) of the Alpine Coaster.

Phase 2 improves or replaces Snowflake Lodge.

Phase 3 makes On-mountain Trail Improvements for ski terrain.

Phase 4 makes On-mountain lift improvements.

Project Internal Staff

All phases of this project will be managed by Diamond Peak and Engineering Division Staff.

Project Justification

Diamond Peak is an under-utilized IVGID asset 7-months of the year. Summer operations will help reduce the risk of poor winter business by moving Diamond Peak from being 100% dependent on the winter ski operation. Summer weather is more reliable as is summer visitation to the area. Some of the proposed improvements for summer operations are also capable of operating during the winter.

Forecast

Budget Year	Total Expense	Total Revenue	Difference
2022			
Permitting and Entitlements	160,000	0	160,000
Year Total	160,000	0	160,000
	160,000	0	160,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2014			Engineering Manager	



Project Summary

Project Number:	3653BD1501A
Title:	2015 Ski Area Master Plan Implementation - Phase 1 A Listed Activities
Project Type:	A - Major Projects - New Initiatives
Division:	53 - Ski Master Plan Implementation
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description
<p>The goal of the Diamond Peak Ski Area Mater Plan is to provide new amenities and activities for the community of and guests to the communities of Incline Village and Crystal Bay. Phases 1a and 1b prioritizes revenue-generating activities to generate up-front net operating income to offset the capital costs of subsequent phases. Phase 1a also includes completing the necessary environmental entitlements (including an Environmental Impact Statement to satisfy TRPA and National Environmental Policy Act requirements) to allow all phases of the Master Plan to be approved by the TRPA and the USFS and allow the updated Master Plan to be adopted by TRPA as the master plan of record for Diamond Peak.</p> <p>Activities budgeted for implementation in Phase 1a (pending Board Authorization) include:</p> <ul style="list-style-type: none"> - Challenge Course - Canopy Tour - Mountain Bike Trails - Family/Kid's Base Area Bike Loop - Kid's Pump Track - Bike Skills Park - Hiking Trail Improvements - An Upgrade of the Lakeview Lift Download Capacity - Formalization of Golden Eagle Bowl Egress

Project Internal Staff
All phases of this project will be managed by Diamond Peak and Engineering Division Staff.

Project Justification
Diamond Peak is an under-utilized IVGID asset 7-months of the year. Summer operations will help reduce the risk of poor winter business by moving Diamond Peak from being 100% dependent on the winter ski operation. Summer weather is more reliable as is summer visitation to the area. Some of the proposed improvements for summer operations are also capable of operating during the winter.

Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
2015 DPMP Construction Phase 1a over 2 fiscal years	1,103,000	0	1,103,000	
Year Total	1,103,000	0	1,103,000	
2023				
2015 DPMP Construction Phase 1a over 2 fiscal years	1,103,000	0	1,103,000	
Year Total	1,103,000	0	1,103,000	
	2,206,000	0	2,206,000	

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
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2014		Engineering Manager	
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Project Summary

Project Number:	3653BD1501B
Title:	2015 Ski Area Master Plan Implementation - Phase 1 B Activities - Alpine Coaster
Project Type:	A - Major Projects - New Initiatives
Division:	53 - Ski Master Plan Implementation
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
<p>The goal of the Diamond Peak Ski Area Mater Plan is to provide new amenities and activities for the community of and guests to the communities of Incline Village and Crystal Bay. Phases 1a and 1b prioritizes revenue-generating activities to generate up-front net operating income to offset the capital costs of subsequent phases. Phase 1a also includes completing the necessary environmental entitlements (including an Environmental Impact Statement to satisfy TRPA and National Environmental Policy Act requirements) to allow all phases of the Master Plan to be approved by the TRPA and the USFS and allow the updated Master Plan to be adopted by TRPA as the master plan of record for Diamond Peak.</p> <p>Phase 1b is the implementation (pending Board authorization) of the Alpine Coaster.</p>				
Project Internal Staff				
All phases of this project will be managed by Diamond Peak and Engineering Division Staff.				
Project Justification				
Diamond Peak is an under-utilized IVGID asset 7-months of the year. Summer operations will help reduce the risk of poor winter business by moving Diamond Peak from being 100% dependent on the winter ski operation. Summer weather is more reliable as is summer visitation to the area. Some of the proposed improvements for summer operations are also capable of operating during the winter.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
2015 DPMP Construction Phase 1b over 2 fiscal years	878,887	0	878,887	
Year Total	878,887	0	878,887	
2025				
2015 DPMP Construction Phase 1b over 2 fiscal years	878,887	0	878,887	
Year Total	878,887	0	878,887	
	1,757,774	0	1,757,774	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2014			Engineering Manager	



5 Year Capital Improvement Plan Summary - As of 5.22.19

Parks

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
Parks	4378BD1603	Resurface and Coat Incline Park Bathroom Floors	Buildings Superintendent	-	13,940	-	-	-	13,940
	4378BD1604	Resurface and Coat Preston Park Bathroom, Mechanical Room, and Bleacher Floors	Buildings Superintendent	-	-	53,200	-	-	53,200
	4378BD1605	Aspen Grove Flatscape and Retaining Wall Enhancement and Replacement	Senior Engineer	55,000	-	-	145,000	105,000	305,000
	4378BD1701	Dumpster enclosure – Incline Park	Parks Superintendent	-	-	45,000	-	-	45,000
	4378BD1705	Rosewood Creek Foot Bridges	Parks Superintendent	8,000	8,000	-	-	-	16,000
	4378BD1801	Preston Field Retaining Wall Replacement	Principal Engineer	-	64,750	225,000	-	-	289,750
	4378BD1901	Village Green Restroom drainage improvements	Senior Engineer	25,000	-	-	-	-	25,000
	4378DI1702	Incline Park Backflow Device Replacement	Engineering Manager	32,000	-	-	-	-	32,000
	4378LE1720	2013 Surf Rake #684	Fleet Superintendent	-	-	-	-	26,500	26,500
	4378LE1724	2005 Shattertine Aerifier	Fleet Superintendent	8,100	-	-	-	-	8,100
	4378LE1725	2008 Landpride Overseeder #622	Fleet Superintendent	-	17,000	-	-	-	17,000
	4378LE1730	2008 JD Pro-Gator #623	Fleet Superintendent	35,000	-	-	-	-	35,000
	4378LE1731	2008 JD Pro-Gator #624	Fleet Superintendent	-	36,000	-	-	-	36,000
	4378LE1739	2013 Ball Field Groomer #681	Fleet Superintendent	17,100	-	-	-	-	17,100
	4378LE1740	2013 Ball Field Mower / Toro 3500D Groundskeeper #682	Fleet Superintendent	35,400	-	-	-	-	35,400
	4378LE1742	2015 Ball Field Groomer #706	Fleet Superintendent	-	17,500	-	20,000	-	37,500
	4378LI1207	Pavement Maintenance, East & West End Parks	Senior Engineer	-	-	-	17,500	37,500	55,000
	4378LI1303	Pavement Maintenance, Village Green Parking	Senior Engineer	5,000	12,500	5,000	22,500	-	45,000
	4378LI1403	Pavement Maintenance, Preston Field	Senior Engineer	5,000	5,000	27,500	6,000	6,000	49,500
	4378LI1504	Incline Creek Restoration Project - Upstream of SR-28 (Net of Grants)	Principal Engineer	163,200	-	-	-	-	163,200
	4378LI1602	Pavement Maintenance, Overflow Parking Lot	Senior Engineer	5,000	5,000	5,000	27,500	5,000	47,500
	4378LI1802	Pavement Maintenance - Incline Park	Senior Engineer	7,500	3,500	7,500	3,500	-	22,000
	4378LV1734	2011 Pick-Up with Lift gate (1-ton) #646	Fleet Superintendent	-	-	-	42,500	-	42,500
	4378LV1735	2005 Pick-up Truck 4x4 (1-Ton) #554	Fleet Superintendent	-	-	43,000	-	-	43,000
	4378LV1736	2003 1-Ton Service Truck #520	Fleet Superintendent	43,000	-	-	-	-	43,000
	4378LV1737	2004 Pick-up Truck 4x4 (1-Ton) #541	Fleet Superintendent	-	43,000	-	-	-	43,000
	4378RS1501	Replace Previous Incline Park Playground	Principal Engineer	-	-	20,000	100,000	-	120,000
	4378RS1601	Replace Preston Park Playgrounds	Principal Engineer	-	15,000	100,000	-	-	115,000
	Total			444,300	241,190	531,200	384,500	180,000	1,781,190



Project Summary

Project Number:	4378BD1603
Title:	Resurface and Coat Incline Park Bathroom Floors
Project Type:	E - Capital Maintenance
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Resurface and Coat Incline Park Bathroom Floors				
Project Internal Staff				
Buildings Maintenance Staff				
Project Justification				
<p>The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed to maintain the value of the Parks asset and customer service.</p> <p>The Incline Park bathroom floors have been painted and sealed in the past. The District is currently standardizing the type of floor coating used in high traffic area such as bathrooms and decks/patios. A neogard epoxy floor is applied which adheres to the floor and wears much better than other products that have been used. It maintains the integrity of the floor handles uses much more efficiently and allows years between a floor recoat.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Contingency	2,500	0	2,500	
Interco	1,240	0	1,240	
Resurface/Coat Floors	10,200	0	10,200	
Year Total	13,940	0	13,940	
2025				
Resurface/Coat Floors	14,500	0	14,500	
Year Total	14,500	0	14,500	
2028				
Resurface/Coat Floors	14,500	0	14,500	
Year Total	14,500	0	14,500	
2032				
Resurface/Coat Floors	16,500	0	16,500	
Year Total	16,500	0	16,500	
	59,440	0	59,440	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2015			Buildings Superintendent	



Project Summary

Project Number:	4378BD1604
Title:	Resurface and Coat Preston Park Bathroom, Mechanical Room, and Bleacher Floors
Project Type:	E - Capital Maintenance
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Resurface and Coat Preston Park Bathroom , Mechanical Room and Bleacher Floors				
Project Internal Staff				
Buildings Maintenance Division				
Project Justification				
<p>The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed to maintain the value of the Parks asset and customer service.</p> <p>The Preston Park bathroom remodel was completed 2011/12. Normal wear has begun to degrade the initial coating. The District is currently standardizing the type of floor coating used in high traffic area such as bathrooms and decks/patios. A neogard epoxy compound is applied which adheres to the floor and wears much better than other products that have been used. It maintains the integrity of the floor, handles use much more efficiently and allows years between a floor recoat.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Bleachers	26,900	0	26,900	
contingency	5,000	0	5,000	
internal services	3,500	0	3,500	
Resurface/Coat Bathroom and Mechanical Room Floors	17,800	0	17,800	
Year Total	53,200	0	53,200	
2026				
Bleachers	32,900	0	32,900	
contingency	6,000	0	6,000	
internal services	4,000	0	4,000	
Resurface/Coat Bathroom and Mechanical Room Floors	20,500	0	20,500	
Year Total	63,400	0	63,400	
	116,600	0	116,600	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2015			Buildings Superintendent	



Project Summary

Project Number:	4378BD1605
Title:	Aspen Grove Flatscape and Retaining Wall Enhancement and Replacement
Project Type:	D - Capital Improvement - Existing Facilities
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description	Wooden retaining walls, curbs, and flatscape are failing around Aspen Grove. Similar infrastructure around the field at Village Green has been replaced with geo-block and pavers over the last 5-years. This project will replace railroad tie timbers and aged concrete areas with geo-block to provide a consistent site appearance.
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Project Internal Staff	Engineering and Parks to oversee work.
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Project Justification	Many of the existing wooden retaining walls and curbs are at the end of their useful lives and are showing signs of failure. The Aspen Grove BBQ area was improved in 2016. Replacement of the wooden and concrete flatwork will not only reduce trip hazards but will also provide a significant aesthetic enhancement to the properties. Extensive work remains on the East side of the parking lot that will be addressed in the future once the the Community Services Master Plan is complete.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Construction	50,000	0	50,000
Internal Services	5,000	0	5,000
Year Total	55,000	0	55,000
2023			
Construction	100,000	0	100,000
Design and Permits	20,000	0	20,000
Internal Services	25,000	0	25,000
Year Total	145,000	0	145,000
2024			
Construction	100,000	0	100,000
Internal Services	5,000	0	5,000
Year Total	105,000	0	105,000
	305,000	0	305,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2015	Jul 1, 2019	Jun 30, 2024	Senior Engineer	



Project Summary

Project Number:	4378BD1701
Title:	Dumpster enclosure – Incline Park
Project Type:	D - Capital Improvement - Existing Facilities
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description			
This is a concrete block structure to house a 6 yard dumpster and a 6 yard recycling dumpster they will be contained within a structure per the IVGID's document "Requirements to construct Appendix B". There currently is no such enclosed structure at our largest facility, Incline Park for use by parks staff to empty bear box receptacles into, once they get full.			
Project Internal Staff			
Parks Division and Engineering Division Staff			
Project Justification			
The Parks Department has used a temporarily placed dumpster to serve the both, Incline Park area and to provide extra dump space for afternoon & evening staff to dispose of trash when all other dumpsters are full and have reached capacity. For the last two summers, during the peak season a 6 yard dumpster has been placed behind the Parks Yard/Shop for this purpose. There is no other place to get rid of trash after the transfer station has closed at 4:00 PM on the weekend and 4:30 PM on the week days, other than a dumpster.			
Staff is very bear aware and does their utmost best to dispose of trash in the proper way in a locked dumpster. The use of this dumpster at the Parks shop has become an efficient & integral part of the operation. As the number of activities & visitors has grown so has the amount of garbage. A permanent structure to house a dumpster full time is needed to coincide with the IVGID's document and standards "Requirements to construct".			
If other dumpsters are filled in the parks, the service vehicles returning to the Parks Yard/Shop with trash, are unable to drop it into the dump truck after the transfer station has closed. To keep wildlife out of the trash they do not put it into the open dump truck overnight. Having an enclosure for the dumpster by the Parks Yard & Shop for returning service vehicles and to serve Incline Park's needs and trash collected after hours is the most efficient and effective way to dispose of trash.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Dumpster Enclosure Construction	45,000	0	45,000
Year Total	45,000	0	45,000
	45,000	0	45,000
Year Identified	Start Date	Est. Completion Date	Manager
2016	May 16, 2017	Jun 30, 2017	Parks Superintendent
			Project Partner



Project Summary

Project Number:	4378BD1705
Title:	Rosewood Creek Foot Bridges
Project Type:	D - Capital Improvement - Existing Facilities
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Footbridge from disc golf hole 11 To 12 on The Disc Golf Course as well as on the Exercise Course just below Incline Way. To stop the erosion of the creek bank and improve user safety, the installation of footbridges is needed to facilitate the crossing of the Rosewood Creek.				
Project Internal Staff				
Parks Superintendent, Engineering				
Project Justification				
Along the creek between Disc course hole # 11 and hole #12 near the skate park as well as at the Exercise Course just below Incline Way there are very small wood planks to allow people to cross Rosewood Creek. These boards are very low on the creek bank and people have to walk down the side and back up the other, in doing this they are eroding the bank of the creek causing erosion and silt to go into the creek. A footbridge at the top of the bank that spans the entire distance will eliminate this problem and allow the grasses and other organic matter that naturally grows to hold and stabilize the creek bank.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Footbridges	8,000	0	8,000	
Year Total	8,000	0	8,000	
2021				
Footbridges	8,000	0	8,000	
Year Total	8,000	0	8,000	
	16,000	0	16,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017			Parks Superintendent	



Project Summary

Project Number:	4378BD1801
Title:	Preston Field Retaining Wall Replacement
Project Type:	D - Capital Improvement - Existing Facilities
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
This project is to replace the timber retaining wall along the outfield boundary of Preston Field. This 5' tall railroad tie wood retaining wall was constructed in the mid 70's and is showing signs of deterioration and nearing the end of it's useful life. The timber retaining wall will be replaced with a longer lasting masonry block wall.				
Project Internal Staff				
Engineering Division Staff will manage this project with input from Parks Division				
Project Justification				
The condition of the retaining wall was evaluated during the summer of 2009 and determined to be in acceptable condition. The construction cost is currently a place holder based on linear footage of retaining wall required for replacement and estimated construction cost. Upon completion of design, an updated construction cost estimate will be used to update the cost for the following CIP year.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Design	50,000	0	50,000	
Internal Services	14,750	0	14,750	
Year Total	64,750	0	64,750	
2022				
Construction (590 linear feet of wall at \$375/LF)	225,000	0	225,000	
Year Total	225,000	0	225,000	
	289,750	0	289,750	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2022	Principal Engineer	



Project Summary

Project Number:	4378BD1901
Title:	Village Green Restroom drainage improvements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description		Proposed swale, drainage and building gutter system improvements		
Project Internal Staff				
Project Justification		The restroom was completely replaced in 2014 and since the Parks Dept. has noted ongoing drainage problems on the north side in wintertime. IVGID Engineering has been monitoring the concerns. There have been ice damming problems on the north side damaging the pathway and allowing snowmelt to flow into the building. In 2017 there were repairs to the pathway and drainage but problems continue. This project proposed to enhance the existing drains, create better diversion of flows off of the ball field, and install a heated gutter on the northern roof eave. Work will also include installation of a masonry block wall to prevent water from entering the building.		
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Construction	20,000	0	20,000	
Internal Services	5,000	0	5,000	
Year Total	25,000	0	25,000	
	25,000	0	25,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019	Jul 1, 2019	Oct 15, 2019	Senior Engineer	



Project Summary

Project Number:	4378DI1702
Title:	Incline Park Backflow Device Replacement
Project Type:	D - Capital Improvement - Existing Facilities
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description	This project will replace the failing and non-compliant 3-inch double check backflow device at Incline Park with a new reduced pressure zone assembly. Doing so replaces a failed piece of critical infrastructure and brings the entire assembly into compliance with the requirements of the most recent edition of the Uniform Plumbing Code. In order to complete the work, the piping must be reconfigured to remove the existing device from an underground vault and move the assembly to an above ground location as reduced pressure zone assemblies must be installed above ground.
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Project Internal Staff	The project will be overseen by the District's Engineering Division with support from the Utilities Compliance Division.
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Project Justification	The District maintains an inventory of backflow devices (13 total devices ranging in size from 1-inch to 6-inches) on all District owned irrigation systems. Backflow devices are required on irrigation systems by the Uniform Plumbing Code, the State of Nevada Administrative Code, and the District's Water Ordinance in order to protect the potable water system from contamination introduced via back siphoning from the irrigation system. These devices must be tested annually and are repaired as needed. Occasionally a backflow device cannot be repaired and must be replaced due to condition or availability of parts. Project Bids in 2018 were over budget. Additional 2020 funds are proposed based on actual bids.
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Forecast	
Budget Year	Total Expense Total Revenue Difference
2020	
Construction and Installation	30,000 0 30,000
Internal Services	2,000 0 2,000
Year Total	<u>32,000 0 32,000</u>
	32,000 0 32,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	Sep 6, 2016	Jun 30, 2020	Engineering Manager	



Project Summary

Project Number:	4378LE1720
Title:	2013 Surf Rake #684
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a schedule basis at the District's beaches and parks. The equipment replacement is a vital link in assuring quality conditions throughout the District. This Surf Rake #234 is specifically utilized at the IVGID beaches for grooming and cleaning the beaches, removing pine needles, pine cones, paper, rocks, trash and other debris.					
Project Internal Staff					
Project Justification					
This surf rake is a vital link in keeping the beaches groomed and free of trash, pine needles and debris in the spring and summer months. Although it is on a 10-year replacement program it has been moved back several time in the CIP. Presently it is not scheduled for replacement until 2013/14 which will make it 28-years old at its present replacement date. Replacement of this equipment will be subject to accrued maintenance cost, visual inspection and overall condition.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2024					
Replace Surf Rake	26,500	0	26,500		
Year Total	26,500	0	26,500		
	26,500	0	26,500		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Jul 1, 2023	Jun 30, 2024	Fleet Superintendent		



Project Summary

Project Number:	4378LE1724
Title:	2005 Shattertine Aerifier
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of regularly use equipment on a schedule cycle ranging from five (5) to fifteen (15) years to meet turf maintenance standards at the District's beaches, parks, ball fields and landscaped areas. The equipment replacement is a vital link in assuring quality turf and grounds condition throughout the District. This aerifier is on a 5-Year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This aerifier is vital for a well maintained parks operation and necessary to ensure quality turf conditions around the District. The replacement was initially moved back in the CIP replacement program several years. The final replacement date is subject to accrued maintenance cost, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Shattertine Aerifier	8,100	0	8,100	
Year Total	8,100	0	8,100	
2030				
Shattertine Aerifier	9,500	0	9,500	
Year Total	9,500	0	9,500	
	17,600	0	17,600	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Fleet Superintendent	



Project Summary

Project Number:	4378LE1725
Title:	2008 Landpride Overseeder #622
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of regularly use equipment on a schedule cycle ranging from five (5) to fifteen (15) years to meet turf maintenance standards at the District's soccer fields, parks, ball fields, beaches and landscaped areas. The equipment replacement is a vital link in assuring quality turf and grounds condition throughout the District. This overseeder is on a 7-Year replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This overseeder is vital for a well maintained parks operation and necessary to ensure quality turf conditions around the District. Presently this equipment is on a 7-year replacement schedule and has been moved back several years. The final replacement date is subject to accrued maintenance cost, visual inspection and overall condition. Purchase will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2021					
Landpride Overseeder	17,000	0	17,000		
Year Total	17,000	0	17,000		
2028					
Landpride Overseeder	18,500	0	18,500		
Year Total	18,500	0	18,500		
2035					
Landpride Overseeder	20,000	0	20,000		
Year Total	20,000	0	20,000		
	55,500	0	55,500		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Jul 1, 2020	Sep 1, 2020	Fleet Superintendent		



Project Summary

Project Number:	4378LE1730
Title:	2008 JD Pro-Gator #623
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>Replace Gator (#623): The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's beaches, parks, ball fields and landscaped areas. Specifically utilized for transporting maintenance crews and hauling materials and equipment throughout the District. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It has a high payload rating and is equipped with a dump bed for the release or spreading of material. Presently it is on a 7-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	<p>This John Deere Gator is vital to the successful operation of the Parks operations. Presently this grounds maintenance vehicle is on a 7-year replacement schedule subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
JD Pro-Gator	35,000	0	35,000
Year Total	35,000	0	35,000
2028			
JD Pro-Gator	35,000	0	35,000
Year Total	35,000	0	35,000
2035			
JD Pro-Gator	37,500	0	37,500
Year Total	37,500	0	37,500
	107,500	0	107,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2020	Jun 1, 2021	Fleet Superintendent	



Project Summary

Project Number:	4378LE1731
Title:	2008 JD Pro-Gator #624
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	<p>Replace Gator (#624): The equipment purchase/replacement program is an ongoing program designed to accomplish the goal of replacement of daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This grounds maintenance vehicle is necessary for meeting turf maintenance standards at the District's beaches, parks, ball fields and landscaped areas. Specifically utilized for transporting maintenance crews and hauling materials and equipment throughout the District. The reduced size of this vehicle allows it to access areas with limited maneuvering space. It has a high payload rating and is equipped with a dump bed for the release or spreading of material. Presently it is on a 7-year replacement schedule, however it will be moved back in the CIP if indicators reveal that no increase in maintenance cost or elevated down time will result from deferring the replacement date.</p>
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	<p>This John Deere Gator is vital to the successful operation of the Parks operations. Presently this grounds maintenance vehicle is on a 7-year replacement schedule subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
JD Pro-Gator	36,000	0	36,000
Year Total	36,000	0	36,000
2028			
JD Pro-Gator	35,000	0	35,000
Year Total	35,000	0	35,000
2035			
JD Pro-Gator	37,500	0	37,500
Year Total	37,500	0	37,500
	108,500	0	108,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2020	Jun 1, 2021	Fleet Superintendent	



Project Summary

Project Number:	4378LE1739
Title:	2013 Ball Field Groomer #681
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description					
Replace Ball Field Groomer (#681): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This ball field groomer is required to meet turf maintenance standards for grooming the infield areas at the District's many ball fields and is a vital link in assuring quality playing conditions. Presently the ball field groomers are on a 7-years replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
This ball field groomer is critical to the parks operation at the Districts many ball fields. The groomer replacement is currently in the CIP replacement program on a 7-year replacement cycle. The final replacement date is subject to accumulated usage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2020					
Replace Ball Field Groomer	17,100	0	17,100		
Year Total	17,100	0	17,100		
2027					
Replace Ball Field Groomer	19,000	0	19,000		
Year Total	19,000	0	19,000		
2034					
Replace Ball Field Groomer	21,000	0	21,000		
Year Total	21,000	0	21,000		
	57,100	0	57,100		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Jul 1, 2019	Jun 30, 2020	Fleet Superintendent		



Project Summary

Project Number:	4378LE1740
Title:	2013 Ball Field Mower / Toro 3500D Groundskeeper #682
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
<p>Replace Toro Grounds Master 3500D mower (#480): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This rotary mower is required to meet turf maintenance standards and is a vital link in assuring quality turf and grounds condition throughout the District. Specifically utilized at ball fields, parks, soccer fields and other large grass areas for the scheduled mowing cycles. Presently this mower is on a 7-years replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
<p>This Toro Grounds master mower is critical to the parks operation for maintaining the Districts turf areas. The mower replacement is presently in the CIP replacement program on a 7-year schedule. The final replacement date is subject to accumulated usage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Replace Ball Field Mower	35,400	0	35,400	
Year Total	35,400	0	35,400	
2027				
Replace Ball Field Mower	39,000	0	39,000	
Year Total	39,000	0	39,000	
2034				
Replace Ball Field Mower	43,000	0	43,000	
Year Total	43,000	0	43,000	
	117,400	0	117,400	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Fleet Superintendent	



Project Summary

Project Number:	4378LE1742
Title:	2015 Ball Field Groomer #706
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description				
Replace Ball Field Groomer (#706): The equipment replacement program is an ongoing program designed to accomplish the goal of replacing daily use equipment on a scheduled cycle ranging from five (5) to fifteen (15) years. This ball field groomer is required to meet turf maintenance standards for grooming the infield areas at the District's many ball fields and is a vital link in assuring quality playing conditions. Presently the ball field groomers are on a 7-years replacement schedule. Purchase will be deferred if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This ball field groomer is critical to the parks operation at the Districts many ball fields. The groomer replacement was moved back in the CIP replacement program from 7-years to 8-years. The final replacement date is subject to accumulated usage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Ball Field Groomer	17,500	0	17,500	
Year Total	17,500	0	17,500	
2023				
Ball Field Groomer	20,000	0	20,000	
Year Total	20,000	0	20,000	
2028				
Ball Field Groomer	20,000	0	20,000	
Year Total	20,000	0	20,000	
	57,500	0	57,500	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Feb 1, 2021	Apr 30, 2021	Fleet Superintendent	



Project Summary

Project Number:	4378LI1207
Title:	Pavement Maintenance, East & West End Parks
Project Type:	E - Capital Maintenance
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description
Continued maintenance and repair of the pavement assets at the East End Park and West End Park, on Lakeshore Blvd. Area includes approximately 10,000 sf of pavement. Engineering maintains a database on this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs.

Project Internal Staff
Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.

Project Justification
Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate accelerates deterioration. Maintenance is due in 2018. In conjunction with the NDOT Bikeway on the East End existing wooden flatscape improvements will be replaced with block walls similar to that at other IVGID parks.

Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2023				
Crack Fill, Patch, Seal	15,000	0	15,000	
Internal Services	2,500	0	2,500	
Year Total	17,500	0	17,500	
2024				
Internal Services	2,500	0	2,500	
Replace West End asphalt pathway with pavers	35,000	0	35,000	
Year Total	37,500	0	37,500	
2028				
Internal Services	10,000	0	10,000	
Reconstruct	110,000	0	110,000	
Year Total	120,000	0	120,000	
2033				
Crack Fill, Patch, Seal	22,000	0	22,000	
Internal Services	2,500	0	2,500	
Year Total	24,500	0	24,500	
	199,500	0	199,500	

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
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2012	Jul 1, 2012	Oct 1, 2012	Senior Engineer	
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Project Summary

Project Number:	4378LI1303
Title:	Pavement Maintenance, Village Green Parking
Project Type:	E - Capital Maintenance
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description				
Continued maintenance and repair of pavement assets at Aspen Grove and Village Green. Parking Lot is approximately 43,000 sf. Engineering maintains a database on this and other facilities for pavement conditions, past projects and forecasts long-term maintenance and replacement needs.				
Project Internal Staff				
Engineering to perform design, bid, contract administration and inspection. Work to be done by outside contractor.				
Project Justification				
Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. Slurry Seal is scheduled for Spring 2018.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Crack Fill and Maintenance	5,000	0	5,000	
Year Total	5,000	0	5,000	
2021				
Crack Fill and Maintenance	10,000	0	10,000	
Internal Services	2,500	0	2,500	
Year Total	12,500	0	12,500	
2022				
Crack Fill and Maintenance	5,000	0	5,000	
Year Total	5,000	0	5,000	
2023				
Internal Services	2,500	0	2,500	
Slurry Seal	20,000	0	20,000	
Year Total	22,500	0	22,500	
2026				
Crack Fill and Maintenance	10,000	0	10,000	
Internal Services	2,500	0	2,500	
Year Total	12,500	0	12,500	
2028				
Internal Services	25,000	0	25,000	
Reconstruct	425,000	0	425,000	
Year Total	450,000	0	450,000	
2033				
Internal Services	2,500	0	2,500	
Slurry Seal	20,000	0	20,000	
Year Total	22,500	0	22,500	
	530,000	0	530,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner

2012	Jul 1, 2016	Jun 30, 2017	Senior Engineer	
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Project Summary

Project Number:	4378LI1403
Title:	Pavement Maintenance, Preston Field
Project Type:	E - Capital Maintenance
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description			
Continued maintenance and repair of pavement assets at Preston Field. Parking Lot is approximately 28,000 sf. Engineering maintains a database on this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs.			
Project Internal Staff			
Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.			
Project Justification			
Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. Parking lot was reconstructed in 2011 and Overlaid in 2017.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2021			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2022			
Crack fill and maintenance	5,000	0	5,000
Internal Services	2,500	0	2,500
Slurry Seal	20,000	0	20,000
Year Total	27,500	0	27,500
2023			
Crack fill and maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
Year Total	6,000	0	6,000
2024			
Crack fill and maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
Year Total	6,000	0	6,000
2025			
Crack fill and maintenance	5,000	0	5,000

Internal Services	2,500	0	2,500
Slurry Seal	15,000	0	15,000
Year Total	<u>22,500</u>	<u>0</u>	<u>22,500</u>
2026			
Crack fill and maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
Year Total	<u>6,000</u>	<u>0</u>	<u>6,000</u>
2027			
Crack fill and maintenance	10,000	0	10,000
Internal Services	2,500	0	2,500
Year Total	<u>12,500</u>	<u>0</u>	<u>12,500</u>
2030			
Crack fill and maintenance	7,500	0	7,500
Internal Services	2,500	0	2,500
Slurry Seal	15,000	0	15,000
Year Total	<u>25,000</u>	<u>0</u>	<u>25,000</u>
2032			
Internal Services	10,000	0	10,000
Reconstruct	300,000	0	300,000
Year Total	<u>310,000</u>	<u>0</u>	<u>310,000</u>
	425,500	0	425,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Senior Engineer	



Project Summary

Project Number:	4378LI1504
Title:	Incline Creek Restoration Project - Upstream of SR-28 (Net of Grants)
Project Type:	D - Capital Improvement - Existing Facilities
Division:	78 - Parks Services
Budget Year:	2020
Finance Options:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description			
This grant funded project will replace two failing culverts on the Championship Golf Course with a new prefabricated bridge consistent with other bridges installed on previous phases of creek restoration work on District owned property. Additional goals of the project include restoring the stream banks and improving fish passage to upstream habitat.			
Project Internal Staff			
IVGID Engineering will manage all phases of this project.			
Project Justification			
IVGID has partnered with the NDSL and NDEP to fund design and construction of this project. NDSL is providing \$114,207 (of which \$74,817 remains as of February 21, 2018) and NDEP is providing \$114,000. NDSL and NDEP have indicated a probability that additional funds can be made available to meet the May 7, 2019 disclosure of additional costs; now that the bidding process has been completed. The end objective would be a 25% match from the District.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Construction	163,200	0	163,200
Year Total	163,200	0	163,200
	163,200	0	163,200
Year Identified	Start Date	Est. Completion Date	Manager
2015			Principal Engineer
			Project Partner



Project Summary

Project Number:	4378LI1602
Title:	Pavement Maintenance, Overflow Parking Lot
Project Type:	E - Capital Maintenance
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description
 Continued maintenance and repair of the Overflow Parking Lot facility. This area includes approximately 45,000 sf of pavement. Engineering maintains a database for this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs.

Project Internal Staff
 Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.

Project Justification
 Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. Overflow Parking Lot is scheduled for slurry seal in Spring 2018.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2021			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2022			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2023			
Internal Services	2,500	0	2,500
Slurry Seal	25,000	0	25,000
Year Total	27,500	0	27,500
2024			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2025			
Crack fill and maintenance	10,000	0	10,000
Year Total	10,000	0	10,000

2026			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2027			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2028			
Internal Services	2,500	0	2,500
Slurry Seal	25,000	0	25,000
Year Total	27,500	0	27,500
2031			
Crack fill and maintenance	10,000	0	10,000
Year Total	10,000	0	10,000
2033			
Crack fill and maintenance	26,000	0	26,000
Internal Services	2,500	0	2,500
Year Total	28,500	0	28,500
2036			
Internal Services	10,000	0	10,000
Reconstruct	300,000	0	300,000
Year Total	310,000	0	310,000
	443,500	0	443,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2016	Jun 30, 2017	Senior Engineer	



Project Summary

Project Number:	4378LI1802
Title:	Pavement Maintenance - Incline Park
Project Type:	E - Capital Maintenance
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description				
Continued maintenance and repair of Incline Park paving assets including pathways and ball field plazas. This includes approximately 1790 lf of pedestrian trail from the skate park to the Third Creek bridge and an additional 10,000sf in asphalt plazas. Engineering maintains a database for this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs.				
Project Internal Staff				
Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.				
Project Justification				
Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
crack fill	1,500	0	1,500	
internal services	1,000	0	1,000	
section replacement	5,000	0	5,000	
Year Total	7,500	0	7,500	
2021				
internal services	1,000	0	1,000	
section replacement	2,500	0	2,500	
Year Total	3,500	0	3,500	
2022				
crack fill	1,500	0	1,500	
internal services	1,000	0	1,000	
section replacement	5,000	0	5,000	
Year Total	7,500	0	7,500	
2023				
internal services	1,000	0	1,000	
section replacement	2,500	0	2,500	
Year Total	3,500	0	3,500	
	22,000	0	22,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner

2018		Jun 30, 2019	Senior Engineer	
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Project Summary

Project Number:	4378LV1734
Title:	2011 Pick-Up with Lift gate (1-ton) #646
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description				
Purchase of new and scheduled replacement of IVGID pick-up trucks, flatbed trucks and service trucks. This is the scheduled replacement of Parks 1-ton pick-up truck, by the Fleet Division, for the Parks Division of the Recreation Department. This vehicle is also equipped with a lift gate and is utilized daily for hauling sod, materials and equipment necessary for the maintenance of the Beaches and Parks around the District. Also used for towing equipment that may not be roaded to the various areas around the District. Vehicles are on a 10-year replacement schedule subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition but will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates. Replacement truck will be a 1 ton flatbed double cab with liftgate and tool storage				
Project Internal Staff				
Fleet Maintenance Staff will manage this project				
Project Justification				
This flatbed truck is operated by the Parks Division of the Recreation Department. Specifically utilized for the daily maintenance activities of the Beaches and Parks throughout the District. Replacement of this vehicle is due to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition, and repair parts availability. The replacement vehicle will be a 1 ton flatbed with liftgate				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2023				
Replace Pick-Up with Lift gate	42,500	0	42,500	
Year Total	42,500	0	42,500	
	42,500	0	42,500	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Dec 30, 2021	Fleet Superintendent	



Project Summary

Project Number:	4378LV1735
Title:	2005 Pick-up Truck 4x4 (1-Ton) #554
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description

This project is for the scheduled replacement of vehicles, by the Fleet Division for the Parks Division of the Recreation Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates. Replacement truck will be a 1 ton flatbed double cab with liftgate and tool storage

Project Internal Staff

Fleet Maintenance Staff will manage this project

Project Justification

This pick-up truck is operated by the Parks Division of the Recreation Department. Specifically utilized for the daily maintenance activities of the Beaches and Parks throughout the District for hauling materials and equipment. This vehicle is presently is on a 10-year replacement schedule. Replacement of this vehicle is subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition and will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Pick-up Truck 4x4	43,000	0	43,000
Year Total	43,000	0	43,000
2030			
Pick-up Truck 4x4	35,000	0	35,000
Year Total	35,000	0	35,000
	78,000	0	78,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Aug 1, 2019	Dec 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	4378LV1736
Title:	2003 1-Ton Service Truck #520
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description	This project is for the scheduled replacement of vehicles, by the Fleet Division for the Parks Division of the Recreation Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates. Replacement truck will be a 1 ton service body truck with liftgate and lumber rack
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	This service truck is operated by the Parks Division of the Recreation Department. Specifically utilized for the daily maintenance and repair activities on the irrigation systems at the Beaches and Parks throughout the District. This vehicle has been moved back in the CIP replacement program and presently is on a 10-year replacement schedule and has been moved back several years. Replacement of this vehicle is subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition and will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Replace 1-Ton Service Truck	43,000	0	43,000
Year Total	43,000	0	43,000
2029			
Replace 1-Ton Service Truck	35,000	0	35,000
Year Total	35,000	0	35,000
	78,000	0	78,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Fleet Superintendent	



Project Summary

Project Number:	4378LV1737
Title:	2004 Pick-up Truck 4x4 (1-Ton) #541
Project Type:	F - Rolling Stock
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description	This project is for the scheduled replacement of vehicles, by the Fleet Division for the Parks Division of the Recreation Department. Vehicles are on a 10-year replacement program subject to accumulated mileage, maintenance cost, oil analysis reports, visual inspection and overall condition. Vehicles will be moved back in the CIP program if indicators reveal no increase in equipment down time or elevated maintenance cost will result by deferring replacement dates. Replacement truck will be a 1 ton flatbed double cab with liftgate and tool storage
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Project Internal Staff	Fleet Maintenance Staff will manage this project
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Project Justification	This pick-up truck is operated by the Parks Division of the Recreation Department. Specifically utilized for the daily maintenance activities of the Beaches and Parks throughout the District for hauling materials and equipment. This vehicle is presently is on a 10-year replacement schedule and has been moved back several years. Replacement of this vehicle is subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition and will be moved back in the CIP if indicators reveal no increase in maintenance cost or elevated down time will result by deferring replacement dates.
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Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Pick-up Truck 4x4 (1-Ton)	43,000	0	43,000	
Year Total	43,000	0	43,000	
2030				
Pick-up Truck 4x4 (1-Ton)	36,000	0	36,000	
Year Total	36,000	0	36,000	
	79,000	0	79,000	

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Aug 1, 2019	Dec 31, 2019	Fleet Superintendent	



Project Summary

Project Number:	4378RS1501
Title:	Replace Previous Incline Park Playground
Project Type:	C - Capital Improvement - New Initiatives
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	RS - Recreation System
Active:	Yes

Project Description				
Install playground at Incline Park. The playground that was at Incline Park behind left field of IP# 3 and to the side of IP#1 was removed years ago due to structural decay and failure. Since that time no playground has been installed to replace what was there, only the footprint of the border and sand surfacing remain.				
Project Internal Staff				
Buildings Staff and Parks Staff will supervise, install and inspect project, including excavation, installation of drainage and fall material and installation of play equipment.				
Project Justification				
Installation of a playground for ages 2 to 5 will provide an established safe area for children to play. An area is needed for children to play especially during softball/baseball/soccer games as the players often bring their families.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Design	20,000	0	20,000	
Year Total	20,000	0	20,000	
2023				
Install Incline Park Playground	100,000	0	100,000	
Year Total	100,000	0	100,000	
	120,000	0	120,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2021	Jun 30, 2023	Principal Engineer	



Project Summary

Project Number:	4378RS1601
Title:	Replace Preston Park Playgrounds
Project Type:	E - Capital Maintenance
Division:	78 - Parks Services
Budget Year:	2020
Finance Option:	
Asset Type:	RS - Recreation System
Active:	Yes

Project Description		Replace playgrounds at Preston Parks. This work is part of on-going life-cycle replacement of the District's Parks infrastructure and assets.		
Project Internal Staff		Buildings Staff and Parks Staff will supervise, help with installation and inspect project, including excavation, installation of drainage and fall material and installation of play equipment.		
Project Justification		Replacement of a playgrounds will provide an established safe area for children to play. An area is needed for children to play especially during softball/baseball/soccer games as the players often bring their families. The playground at Preston is also a popular destination for families unrelated to events scheduled at the Field and is an alternative to the facilities at Incline and Burnt Cedar Beach. This is the only playground in the District that is available to residents without Beach access.		
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Design	15,000	0	15,000	
Year Total	15,000	0	15,000	
2022				
Replace playground Preston Park	100,000	0	100,000	
Year Total	100,000	0	100,000	
	115,000	0	115,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2020	Jun 30, 2022	Principal Engineer	



5 Year Capital Improvement Plan Summary - As of 5.22.19
Tennis

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
Tennis	4588BD1602	Paint All Court Fences and Light Poles, Replace Wind Screens	Buildings Superintendent	-	51,000	-	-	-	51,000
	4588BD1604	Tennis Center Renovation	Engineering Manager	1,285,000	-	-	-	-	1,285,000
	4588LI1201	Pavement Maintenance, Tennis Facility	Senior Engineer	23,500	5,000	5,000	5,000	10,000	48,500
	4588RS1401	Resurface Tennis Courts 8-9-10-11	Director of Parks and Recreation	-	17,600	-	-	-	17,600
	4588RS1402	Resurface Tennis Courts 3 thru 7	Director of Parks and Recreation	-	-	-	-	23,000	23,000
	4588RS1501	Resurface Tennis Courts 1 and 2	Director of Parks and Recreation	47,000	-	-	-	-	47,000
	Total			1,355,500	73,600	5,000	5,000	33,000	1,472,100



Project Summary

Project Number:	4588BD1602
Title:	Paint All Court Fences and Light Poles, Replace Wind Screens
Project Type:	E - Capital Maintenance
Division:	88 - Tennis
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description	The center court light poles and all the court fence enclosures were last painted in the spring of 2006. All the aforementioned are chipping, fading and showing the start of rusting due to age of the paint and exposure. To maintain the appearance all should be repainted to enhance the quality of the courts and overall appearance.
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Project Internal Staff	Staff will supervise and inspect contractor installation project.
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Project Justification	The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Tennis Center asset and customer service.
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Forecast	
Budget Year	Total Expense Total Revenue Difference
2021	
Contingency	4,500 0 4,500
Internal Services	3,500 0 3,500
Paint light poles/fences	18,000 0 18,000
Wind Screens on all courts	25,000 0 25,000
Year Total	51,000 0 51,000
2026	
Contingency	6,500 0 6,500
Internal Services	3,500 0 3,500
Paint light poles/fences	20,000 0 20,000
Year Total	30,000 0 30,000
2028	
Wind Screens on all courts	27,500 0 27,500
Year Total	27,500 0 27,500
	108,500 0 108,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	May 9, 2016	May 27, 2016	Buildings Superintendent	



Project Summary

Project Number:	4588BD1604
Title:	Tennis Center Renovation
Project Type:	D - Capital Improvement - Existing Facilities
Division:	88 - Tennis
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
<p>A number of the facilities at the Tennis Center Pro-shop/Clubhouse Building are dated, showing wear and tear, and are in need of capital improvement. The condition of the restrooms has been identified by the Tennis DVAT as a high priority for attention by the District. The restrooms are also a source of regular customer complaints. Additionally the deck is approaching end of life and is in need of replacement. The kitchen/sundry area is not well laid out and has been subject to repeated wildlife damage. Finally, the entrance to the pro-shop facility is hidden and difficult to see with customer flow not well laid out. This results in customer confusion as well as frequent intentional and unintentional by-pass of the check-in area/process by customers. This project will design, permit, and complete a strategic remodel of the Tennis Center building to address the above described issues. All finishes will be upgraded with aesthetically pleasing and long wearing materials. Total fixture count of the restrooms is adequate and will be unchanged by the project. Overall footprint of the facility will not be increased in this project.</p>				
Project Internal Staff				
Engineering Division Staff will manage all phases of this project.				
Project Justification				
The Tennis Center building has not seen major capital maintenance in over a decade and is showing signs of wear and tear. It is a source of complaints from guests and was identified as an area requiring enhancement in the 2016 Tennis Center Facility Study. All improvements will be in-line with the recommendations and findings of the finalized Facility Study.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Construction Contingency for renovation/remodel at 15%	139,000	0	139,000	
Construction Cost estimate per architect	926,000	0	926,000	
Construction Management and Construction Engineering	95,000	0	95,000	
Design Phase Services	125,000	0	125,000	
Year Total	1,285,000	0	1,285,000	
	1,285,000	0	1,285,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2014	Jul 1, 2019	Jun 30, 2020	Engineering Manager	



Project Summary

Project Number:	4588LI1201
Title:	Pavement Maintenance, Tennis Facility
Project Type:	E - Capital Maintenance
Division:	88 - Tennis
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description	Continued maintenance and repair of the tennis facility paving assets, including parking lot and pathways. Area includes approximately 15,000 sf of pathways and 15,000 sf of parking lot. Engineering maintains a database for this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs.
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Project Internal Staff	Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.
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Project Justification	Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. The parking lot was reconstructed in 2014. Pathways are of varied age and require annual maintenance.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Crack fill and maintenance	5,000	0	5,000
Internal Services	2,500	0	2,500
Slurry Seal	16,000	0	16,000
Year Total	23,500	0	23,500
2021			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2022			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2023			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2024			
Crack fill and maintenance	7,500	0	7,500
Internal Services	2,500	0	2,500
Year Total	10,000	0	10,000
2025			
Internal Services	2,500	0	2,500

Slurry Seal	16,000	0	16,000
Year Total	18,500	0	18,500
2026			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2027			
Crack fill and maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2029			
Crack fill and maintenance	10,000	0	10,000
Internal Services	2,500	0	2,500
Year Total	12,500	0	12,500
2030			
Internal Services	2,500	0	2,500
Slurry Seal	16,000	0	16,000
Year Total	18,500	0	18,500
2033			
Crack fill and maintenance	10,000	0	10,000
Internal Services	2,500	0	2,500
Year Total	12,500	0	12,500
2036			
Internal Services	10,000	0	10,000
Reconstruct	300,000	0	300,000
Year Total	310,000	0	310,000
	430,500	0	430,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2016	Jun 30, 2017	Senior Engineer	



Project Summary

Project Number:	4588RS1401
Title:	Resurface Tennis Courts 8-9-10-11
Project Type:	E - Capital Maintenance
Division:	88 - Tennis
Budget Year:	2020
Finance Option:	
Asset Type:	RS - Recreation System
Active:	Yes

Project Description				
Resurface courts 8-9-10-11 on a 6-year cycle.				
Project Internal Staff				
Parks & Recreation Superintendent will supervise and inspect contractor installed project				
Project Justification				
The surface material is affected by factors of usage and weather and should be expected to be maintained every 6 years.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Resurface Courts 8 - 11	17,600	0	17,600	
Year Total	17,600	0	17,600	
2027				
Resurface Courts 8 - 11	19,000	0	19,000	
Year Total	19,000	0	19,000	
2033				
Resurface Courts 8 - 11	20,500	0	20,500	
Year Total	20,500	0	20,500	
	57,100	0	57,100	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Director of Parks and Recreation	



Project Summary

Project Number:	4588RS1402
Title:	Resurface Tennis Courts 3 thru 7
Project Type:	E - Capital Maintenance
Division:	88 - Tennis
Budget Year:	2020
Finance Option:	
Asset Type:	RS - Recreation System
Active:	Yes

Project Description
Resurface Tennis Courts 3,4,5,6 and 7 on a 5 year cycle. This work will also include necessary drainage improvements to prevent flooding of the near court areas after rain events and court washings.

Project Internal Staff
Parks & Recreation Superintendent will supervise the contractor.

Project Justification
The surface material is affected by factors of usage and weather and should be expected to be maintained every 5 years. The drainage improvements were identified as a priority in the 2016 Tennis Facility Plan.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
Resurface by contractor	23,000	0	23,000
Year Total	23,000	0	23,000
2029			
Resurface by contractor	24,000	0	24,000
Year Total	24,000	0	24,000
2034			
Resurface by contractor	25,000	0	25,000
Year Total	25,000	0	25,000
	72,000	0	72,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	May 1, 2019	Jun 1, 2019	Director of Parks and Recreation	



Project Summary

Project Number: 4588RS1501
Title: Resurface Tennis Courts 1 and 2
Project Type: E - Capital Maintenance
Division: 88 - Tennis
Budget Year: 2020
Finance Option:
Asset Type: RS - Recreation System
Active: Yes

Project Description				
Resurface Tennis Courts 1 & 2 on a 5-year cycle.				
This work will also include necessary drainage improvements to prevent flooding of the near court areas after rain events and court washings.				
Project Internal Staff				
Parks & Recreation Superintendent will supervise the contractor.				
Project Justification				
The surface material is affected by factors of usage and weather and should be expected to be maintained every 5 years.				
The drainage improvements were identified as a priority in the 2016 Tennis Facility Plan.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Court Resurfacing	12,000	0	12,000	
Drainage Improvements	35,000	0	35,000	
Year Total	47,000	0	47,000	
2025				
Court Resurfacing	10,000	0	10,000	
Year Total	10,000	0	10,000	
2030				
Court Resurfacing	11,000	0	11,000	
Year Total	11,000	0	11,000	
2035				
Court Resurfacing	12,000	0	12,000	
Year Total	12,000	0	12,000	
	80,000	0	80,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	May 1, 2020	Jun 1, 2020	Director of Parks and Recreation	



5 Year Capital Improvement Plan Summary - As of 5.22.19
Recreation Center

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
Recreation Center	4884BD1601	Recreation Center Natatorium Mezzanine Safety Enhancements	Buildings Superintendent	90,000	-	-	-	-	90,000
	4884BD1702	Replace Bird Netting	Buildings Superintendent	-	-	-	-	17,720	17,720
	4884BD1703	Replace Walkway Bollard Lights	Buildings Superintendent	55,000	-	-	-	-	55,000
	4884BD1705	Upgrade Lights for I.P. Pathway	Buildings Superintendent	-	-	27,000	-	-	27,000
	4884BD1804	Chemtrol System for Recreation Center Pool	Director of Parks and Recreation	-	-	22,000	-	-	22,000
	4884BD1902	Recreation Center Upstairs Lobby Restrooms Remodel	Recreation Center Manager	-	31,504	-	-	-	31,504
	4884CE1903	External Surveillance Security Cameras for Recreation Center	Director of Parks and Recreation	15,000	-	-	-	-	15,000
	4884FF1501	Resurface Recreation Center Patio Deck	Buildings Superintendent	-	-	-	-	28,620	28,620
	4884FF1502	Repair Deck Stairs and Powder Coat All Patio Deck Railings	Buildings Superintendent	20,000	-	-	-	-	20,000
	4884LI1102	Pavement Maintenance, Recreation Center Area	Senior Engineer	57,500	62,500	5,000	357,500	307,500	790,000
	4884RS1503	Replaster Recreation Center Pool	Buildings Superintendent	-	-	200,000	-	-	200,000
	4885BD1606	Pool Facility Deck/Floor Re-coat	Recreation Center Manager	34,000	-	-	-	35,500	69,500
	4886LE0001	Fitness Equipment	Recreation Center Manager	44,200	45,000	47,250	49,000	-	185,450
	4899BD1305	Paint Interior of Recreation Center	Buildings Superintendent	15,500	-	15,500	-	15,500	46,500
	4899BD1801	Paver install Front Walkway at Recreation Center	Buildings Superintendent	82,500	-	-	-	-	82,500
	4899LV1721	2012 15-Passenger Van #667	Fleet Superintendent	-	-	45,800	-	-	45,800
	4899OE1607	Recreation Center Printer Copier Replacement 980 Incline Way	IT Analyst	-	20,000	-	-	-	20,000
	Total			413,700	159,004	362,550	406,500	404,840	1,746,594



Project Summary

Project Number:	4884BD1601
Title:	Recreation Center Natatorium Mezzanine Safety Enhancements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description			
This project will remodel the Recreation Center's natatorium mezzanine to enhance safety and overall appearance.			
Project Internal Staff			
The Buildings Division will manage this project with support from Engineering and Recreation Staff.			
Project Justification			
The existing natatorium mezzanine is laid out in manner where a serious trip and fall hazard exists. There have been a number of falls due to the configuration of the stairs and the mezzanine was identified to be addressed in a recent safety audit of the facility.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Construction	90,000	0	90,000
Year Total	90,000	0	90,000
	90,000	0	90,000
Year Identified	Start Date	Est. Completion Date	Manager
2015			Buildings Superintendent
			Project Partner



Project Summary

Project Number:	4884BD1702
Title:	Replace Bird Netting
Project Type:	G - Equipment & Software
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
The bird netting under the eaves at the Recreation Center is ten years old. It is beginning to fray and unravel, creating gaps in the netting. The netting protects the building from birds that create a nest on the building or peck holes in the building to nest. It also serves as a barrier to rodents that prey on the bird eggs. Additionally, rodents enter the holes and end up in the dead space in the walls causing further damage.				
Project Internal Staff				
Buildings Maintenance Staff				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed to maintain the value of the Recreation Center asset and customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2024				
Contingency	1,800	0	1,800	
Internal Services	620	0	620	
replace bird netting under eaves Recreation Center	15,300	0	15,300	
Year Total	17,720	0	17,720	
2030				
Contingency	2,000	0	2,000	
Internal Services	620	0	620	
replace bird netting under eaves Recreation Center	17,100	0	17,100	
Year Total	19,720	0	19,720	
	37,440	0	37,440	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	Aug 1, 2017	Sep 1, 2017	Buildings Superintendent	



Project Summary

Project Number:	4884BD1703
Title:	Replace Walkway Bollard Lights
Project Type:	E - Capital Maintenance
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
The walkway bollard light fixtures at the Recreation Center were replaced in total nine years ago because of rust, normal aging and structural metal fatigue. The ground level concrete base and wiring that power the fixtures are original install from 1993. The internal electrical components consisting of a ballast and lamp have been changed on an as they fail basis. Through weather and time some concrete bases have began to deteriorate and as a result the light fixtures are not as secure and if bumped can be broken off the base. The below ground wiring junction boxes are filling with water and could potentially be a safety hazard. Consequently the entire unit should be replaced with an elevated base, new wiring and fixture.				
Project Internal Staff				
Buildings Maintenance Staff				
Project Justification				
The general purpose of this project is to improve the safety of our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed to maintain the value of the Recreation Center asset and customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Replace Walkway Bollard Lights	55,000	0	55,000	
Year Total	55,000	0	55,000	
2035				
Design and engineering	5,000	0	5,000	
Year Total	5,000	0	5,000	
2036				
Contingency	7,500	0	7,500	
Internal Services	5,000	0	5,000	
Replace Walkway Bollard Lights	50,000	0	50,000	
Year Total	62,500	0	62,500	
	122,500	0	122,500	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	Aug 1, 2017	Oct 1, 2017	Buildings Superintendent	



Project Summary

Project Number:	4884BD1705
Title:	Upgrade Lights for I.P. Pathway
Project Type:	E - Capital Maintenance
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description					
Upgrade pole light heads for the Incline Park pathway					
Project Internal Staff					
Buildings Maintenance					
Project Justification					
This project would complete the pathway light upgrade began last year with the lights adjacent to the Skateboard Park. The remaining twelve light heads would be replaced with a more efficient and longer lasting LED plug in as opposed to the metal halide blubs that are currently in use. The manufacture life expectancy on the LED plug in is 15-18 years					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2022					
Contingency	4,200	0	4,200		
Internal Sevices	6,000	0	6,000		
Upgrade Lights for I.P. Pathway	16,800	0	16,800		
Year Total	27,000	0	27,000		
	27,000	0	27,000		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2017	Aug 1, 2021	Nov 1, 2021	Buildings Superintendent		



Project Summary

Project Number:	4884BD1804
Title:	Chemtrol System for Recreation Center Pool
Project Type:	G - Equipment & Software
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	ME - Mechanical Equipment
Active:	Yes

Project Description			
Chemtrol Water Safety System for Recreation Center pool			
Project Internal Staff			
Indra Winqest, Daniel Vargas			
Project Justification			
Current Chemtrol system was installed in the Late 90's. It has undergone a minimum of three major repairs. A replacement system will provide advanced technology as well as the ability to monitor and make adjustments remotely.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2022			
Chemtrol System RC Pool	22,000	0	22,000
Year Total	22,000	0	22,000
	22,000	0	22,000
Year Identified	Start Date	Est. Completion Date	Manager
2018			Director of Parks and Recreation
			Project Partner



Project Summary

Project Number:	4884BD1902
Title:	Recreation Center Upstairs Lobby Restrooms Remodel
Project Type:	E - Capital Maintenance
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Restroom Remodel				
Project Internal Staff				
Project Justification				
Aging 20 - 26 year old tile and counter tops, discolored, stained, calcified and outdated tile and counter tops				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Remodel Recreation Center upstairs lobby restrooms (Men & Women)	31,504	0	31,504	
Year Total	31,504	0	31,504	
	31,504	0	31,504	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2019		Nov 30, 2021	Recreation Center Manager	



Project Summary

Project Number:	4884CE1903
Title:	External Surveillance Security Cameras for Recreation Center
Project Type:	G - Equipment & Software
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	CE - Communications Equipment
Active:	Yes

Project Description			
External Security Cameras for front walkway and parking lot			
Project Internal Staff			
Indra Winqest – Director of Parks & Recreation/Pandora Bahlman – Recreation Center Manager			
Project Justification			
This is the next phase in security enhancements to the Recreation Center. Internal cameras were installed in 2016 but did not include external needs.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
External Security Cameras	15,000	0	15,000
Year Total	15,000	0	15,000
	15,000	0	15,000
Year Identified	Start Date	Est. Completion Date	Manager
2019	Jul 1, 2019	Jul 31, 2019	Director of Parks and Recreation
			Project Partner



Project Summary

Project Number:	4884FF1501
Title:	Resurface Recreation Center Patio Deck
Project Type:	E - Capital Maintenance
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description					
The Recreation Center patio deck is pitted and stained in several areas and should be resurfaced. The concrete deck has been sealed on a yearly basis for the past ten years but prior to that nothing was done. The cracks and spaulding is becoming greater with each winter freeze thaw cycle and the deck is beginning to leak into the areas below it. Cleaning the deck following events requires more effort and leaves the deck looking less than what's expected from the Recreation Center on a customer service oriented venue. The new epoxy coatings similar to what has been done on the Ski Main Lodge patio deck will protect and make the deck easier to keep clean.					
Project Internal Staff					
Staff will supervise and inspect contractor installation project.					
Project Justification					
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Recreation Center asset and customer service.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2024					
Contingency	3,000	0	3,000		
Internal Services	620	0	620		
Resurface patio deck	25,000	0	25,000		
Year Total	28,620	0	28,620		
	28,620	0	28,620		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2013	Jun 1, 2015	Jun 5, 2015	Buildings Superintendent		



Project Summary

Project Number:	4884FF1502
Title:	Repair Deck Stairs and Powder Coat All Patio Deck Railings
Project Type:	E - Capital Maintenance
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description	<p>The concrete stairways have been sealed on a yearly basis for the past ten years but prior to that nothing was done. The cracks and spaulding on the south stairway is much worse due to exposures and should be completely replaced. It will be replaced with a metal stairway better suited to the exposure. The north facing stairway is in much better condition and will be resurfaced in a separate project. The deck railings were not powder coated on installation and have been maintained with rust removal and paint. However, for the railings to be preserved it would be much less expensive to have them removed and powder coated as opposed to replaced.</p> <p>This project should be done prior to and in conjunction with the patio deck resealing.</p>
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Project Internal Staff	Staff will supervise and inspect contractor installation project.
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Project Justification	The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Recreation Center asset and customer service.
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Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020	20,000	0	20,000
Year Total	20,000	0	20,000
	20,000	0	20,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013	May 4, 2015	May 29, 2015	Buildings Superintendent	



Project Summary

Project Number:	4884LI1102
Title:	Pavement Maintenance, Recreation Center Area
Project Type:	E - Capital Maintenance
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description
 Continued maintenance and repair of Recreation Center area's pavement assets. These include the entry roads and parking lot, The Tennis facility area is budgeted separately. This includes approximately 91,000 sf of pavement. Engineering maintains a database on this and all other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs.

Project Internal Staff
 Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.

Project Justification
 Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. The Recreation Center parking lot was built in 1991 and reached its expected service life. This site will need increased maintenance for ongoing safety repairs until it can be reconstructed. Section replacement is planned for 2020 with a Slurry Seal in 2021. Rebuild of the parking lot is anticipated in 2023.

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Crackfill and Maintenance	5,000	0	5,000
Internal Services	2,500	0	2,500
Section Replacement	50,000	0	50,000
Year Total	57,500	0	57,500
2021			
Crackfill and Maintenance	10,000	0	10,000
Internal Services	2,500	0	2,500
Slurry Seal	50,000	0	50,000
Year Total	62,500	0	62,500
2022			
Crackfill and Maintenance	5,000	0	5,000
Year Total	5,000	0	5,000
2023			
Engineering Services	50,000	0	50,000
Internal Services	7,500	0	7,500
Reconstruct Rec Center Parking and Roads	300,000	0	300,000
Year Total	357,500	0	357,500

2024			
Internal Services	7,500	0	7,500
Reconstruct Rec Center Parking and Roads	300,000	0	300,000
Year Total	307,500	0	307,500
2025			
Internal Services	7,500	0	7,500
Reconstruct Rec Center Parking and Roads	300,000	0	300,000
Year Total	307,500	0	307,500
2027			
Crackfill and Maintenance	10,000	0	10,000
Internal Services	1,000	0	1,000
Year Total	11,000	0	11,000
2030			
Crackfill and Maintenance	10,000	0	10,000
Internal Services	2,500	0	2,500
Slurry Seal	40,000	0	40,000
Year Total	52,500	0	52,500
2033			
Internal Services	5,000	0	5,000
Year Total	5,000	0	5,000
2035			
Crackfill and Maintenance	10,000	0	10,000
Slurry Seal	40,000	0	40,000
Year Total	50,000	0	50,000
	1,216,000	0	1,216,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2016	Jun 30, 2017	Senior Engineer	



Project Summary

Project Number:	4884RS1503
Title:	Replaster Recreation Center Pool
Project Type:	E - Capital Maintenance
Division:	84 - Operations
Budget Year:	2020
Finance Option:	
Asset Type:	RS - Recreation System
Active:	Yes

Project Description	<p>The recreation Center pool plaster surfaces require periodic replacement. The anticipated lifespan is 10-15 years. Over time cracking and surface failure will create health and safety impacts to continued use of the pool. The breakdown and cracking of the pool surface creates an unsafe pool sub straight. Therefore the floor does not meet health dept safety code requirements. Continued maintenance of the pool has involved patching of failed areas to meet current requirements. This project will time for repairs is approximately one month. The pool deck resurfacing CIP will be done at the same time minimizing pool closure time.</p>
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Project Internal Staff	Staff will supervise and inspect contractor installation project.
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Project Justification	The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience and Health Department Codes. This project is designed primarily to maintain the value of the Recreation Center asset and customer service.
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Forecast	
Budget Year	Total Expense Total Revenue Difference
2022	
Contingency	15,000 0 15,000
Internal Services	10,000 0 10,000
Replaster/Resurface Pool	175,000 0 175,000
Year Total	200,000 0 200,000
2038	
Contingency	18,000 0 18,000
Internal Services	7,000 0 7,000
Replaster/Resurface Pool	175,000 0 175,000
Year Total	200,000 0 200,000
	400,000 0 400,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013			Buildings Superintendent	



Project Summary

Project Number:	4885BD1606
Title:	Pool Facility Deck/Floor Re-coat
Project Type:	E - Capital Maintenance
Division:	85 - Rec Center Pool
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
To provide the cleanliness, health and safety expected by our customers and secure the longevity of the pool deck, a re-coating needs to be applied approximately every five years.				
Project Internal Staff				
Buildings and Rec Center staff will supervise and inspect contractor installed project.				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience and Health Department Codes. This project is designed primarily to maintain the value of the Recreation Center asset and customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Construction	28,500	0	28,500	
Contingency	3,000	0	3,000	
Internal Services	2,500	0	2,500	
Year Total	34,000	0	34,000	
2024				
Construction	30,000	0	30,000	
Contingency	3,000	0	3,000	
Internal Services	2,500	0	2,500	
Year Total	35,500	0	35,500	
2029				
Construction	33,000	0	33,000	
Contingency	3,500	0	3,500	
Internal Services	3,000	0	3,000	
Year Total	39,500	0	39,500	
2034				
Construction	37,500	0	37,500	
Contingency	4,000	0	4,000	
Internal Services	3,500	0	3,500	
Year Total	45,000	0	45,000	
	154,000	0	154,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Recreation Center Manager	



Project Summary

Project Number:	4886LE0001
Title:	Fitness Equipment
Project Type:	G - Equipment & Software
Division:	86 - Rec Center Fitness
Budget Year:	2020
Finance Option:	
Asset Type:	LE - Light Duty Service Equipment
Active:	Yes

Project Description
Annual/routine replacement cycle for the purchase of IV Recreation Center fitness equipment including: Cardiovascular & Strength Training Equipment (i.e. treadmills, stair climbers, stationary bike, rowing machines, elliptical, leg & chest press etc.). This capital improvement project earmarks funds to purchase equipment that has reached its life expectancy and/or cannot be restored to operate at peak efficiency, plus shipping, installation and projected price increases. Most cardiovascular equipment has a 5-7 year life expectancy, and strength equipment 6-9 year life expectancy. New equipment purchases will adhere to top level fitness trends, standards and reputation to satisfy and retain the Recreation Center membership, meet the needs of the diverse age/ability range of the users, and include personal viewing systems(or latest technology) to enhance personal workouts.

Project Internal Staff

Project Justification
2019 – Replace with similar equipment: Two Precor Ellipticals, Two Life Fitness Ellipticals, Two Precor Treadmills and One Precor Recumbent Bike Budget: \$43,500
2020- Replace with similar equipment: Concept Rower II, SciFit Ergometer, Two LifeFitness Elliptical, Two Life Fitness Bikes and Two Cybex Arc Trainers Budget: \$44,200
2021-Replace with similar equipment: Three Precor Treadmills, Two Precor Recumbent Bikes, Versaclimber Sports Model, Freemotion Squat Rack and Two Reformers Budget: \$45,000

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Fitness Equipment	44,200	0	44,200
Year Total	44,200	0	44,200
2021			
Fitness Equipment	45,000	0	45,000
Year Total	45,000	0	45,000
2022			
Fitness Equipment	47,250	0	47,250
Year Total	47,250	0	47,250
2023			
Fitness Equipment	49,000	0	49,000
Year Total	49,000	0	49,000
	185,450	0	185,450

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
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2014	Jul 1, 2018	Jun 30, 2019	Recreation Center Manager	
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Project Summary

Project Number:	4899BD1305
Title:	Paint Interior of Recreation Center
Project Type:	E - Capital Maintenance
Division:	99 - Rec. Admin.
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
This project is for on-going upkeep and re-application of the interior paint in the Recreation Center. Many areas of the facility are damaged, dirty and stained from usage and age. Touch up paint and repairs have been made to the interior walls of the Buildings to maintain the general appearance of the Facility. However, as more touch up is completed different shades of the same paint become visible due to age of the existing paint. By repairing the damaged areas and painting the entire facility interior it improves what will become a customer service issue, if not addressed and the appearance and further protects the overall interior. High traffic to be done every two years with initial install of corner guards in upper hallway.				
Project Internal Staff				
Buildings Staff will supervise and inspect project.				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Recreation Center asset and customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Contingency	2,000	0	2,000	
Internal Services	1,000	0	1,000	
Paint Interior	12,500	0	12,500	
Year Total	15,500	0	15,500	
2022				
Contingency	2,000	0	2,000	
Internal Services	1,000	0	1,000	
Paint Interior	12,500	0	12,500	
Year Total	15,500	0	15,500	
2024				
Contingency	2,000	0	2,000	
Internal Services	1,000	0	1,000	
Paint Interior	12,500	0	12,500	
Year Total	15,500	0	15,500	
2031				
Contingency	5,000	0	5,000	
Internal Services	2,000	0	2,000	
Paint Interior	42,500	0	42,500	
Year Total	49,500	0	49,500	
	96,000	0	96,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2020	Sep 1, 2020	Buildings Superintendent	



Project Summary

Project Number:	4899BD1801
Title:	Paver install Front Walkway at Recreation Center
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - Rec. Admin.
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description			
Removal of failing concrete and prep ground with base to accept new precast pavers.			
Project Internal Staff			
Building Maintenance			
Project Justification			
The 25-year-old concrete has been spalling and started to fail and as a stopgap has received numerous coatings to prolong its life. The continued degradation of the surface will eventually pose safety issues as well as its current aesthetic problems. Work to be coordinated with parking lot reconstruction planned separately.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2020			
Contingency	7,500	0	7,500
Internal Services	5,000	0	5,000
Rec. Center Walkway Pavers	70,000	0	70,000
Year Total	82,500	0	82,500
	82,500	0	82,500
Year Identified	Start Date	Est. Completion Date	Manager
2018	Jul 1, 2022	Aug 31, 2022	Buildings Superintendent
			Project Partner



Project Summary

Project Number:	4899LV1721
Title:	2012 15-Passenger Van #667
Project Type:	F - Rolling Stock
Division:	97 - Shared Expenses
Budget Year:	2020
Finance Option:	
Asset Type:	LV - Light Duty Vehicles
Active:	Yes

Project Description					
This project is for the scheduled replacement of vehicles by the Fleet Division for the Incline Recreation Department. This 15-passenger, 4-wheel drive van is utilized year around on a limited basis for transporting children from the elementary school to the Recreation Center. Additionally during the winter months it is utilized by Diamond Peak for transporting skiers to and from the Ski Resort during light load requirements. Vehicles are on a 10-year replacement program subject to accumulated mileage, accrued maintenance cost, oil analysis reports, visual inspection and overall condition.					
Project Internal Staff					
Fleet Maintenance Staff will manage this project					
Project Justification					
The final replacement date is subject to accumulated usage (hours), accrued maintenance cost, oil analysis reports, visual inspection and overall condition. Replacement will be moved back in the CIP if indicators reveal that increased maintenance cost or elevated down time will not result by deferring the replacement date.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2022					
Replace 15-Pass. Van	45,800	0	45,800		
Year Total	45,800	0	45,800		
2032					
Replace 15-Pass. Van	57,000	0	57,000		
Year Total	57,000	0	57,000		
	102,800	0	102,800		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012	Jul 1, 2021	Jun 30, 2022	Fleet Superintendent		



Project Summary

Project Number:	4899OE1607
Title:	Recreation Center Printer Copier Replacement 980 Incline Way
Project Type:	G - Equipment & Software
Division:	99 - Rec. Admin.
Budget Year:	2020
Finance Option:	
Asset Type:	OE - Office Equipment
Active:	Yes

Project Description			
Replacement of the large volume color/black device serving the administrative office and front counter at the Recreation Center. It provides black ink copies for documents and color usage is generally for program materials for a variety of recreation activities. Color printing is meter and requires a user code. This project is for the cost of the printer copier only and does not include monthly maintenance charges which is part of the District's comprehensive maintenance plan.			
Project Internal Staff			
The IT Technician oversees the routine maintenance and care and condition assessment of this device.			
Project Justification			
The current volume printed/copied on this device averages around 15,000 a month. It is a Xerox WorkCentre 7970 purchased in 2015. Life cycle is 2,400,000 images. The meter read at 12/1/15 was 26,000. Proposed new printer/copier will be based on industry comparisons for functionality and capacity, considering the best pricing we can get from state and local contracts.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
Copier	20,000	0	20,000
Year Total	20,000	0	20,000
2026			
Copier	25,000	0	25,000
Year Total	25,000	0	25,000
	45,000	0	45,000
Year Identified	Start Date	Est. Completion Date	Manager
2012	Jul 1, 2020	Jun 30, 2021	IT Analyst
			Project Partner



5 Year Capital Improvement Plan Summary - As of 5.22.19
Community Services Shared

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
Community Services Shared	4999OE1399	Web Site Redesign and Upgrade	Marketing Manager	-	80,000	-	-	-	80,000
	Total			-	80,000	-	-	-	80,000



Project Summary

Project Number:	4999OE1399
Title:	Web Site Redesign and Upgrade
Project Type:	G - Equipment & Software
Division:	99 - Community Services Admin.
Budget Year:	2020
Finance Option:	
Asset Type:	OE - Office Equipment
Active:	Yes

Project Description			
Redesign/redevelop District websites. IVGID is looking for a strategic web partnership and a web agency that can reengineer the sites to incorporate the latest web technology and position them for the future with social integration and mobile features. If there is a requirement for future web work outside of the scope of IVGID staff, the selected vendor may be contracted on a per project bases or on a timed retainer.			
Project Internal Staff			
Marketing – project owner, coordination w/vendor IT – input/infrastructure & content support Upon completion of the development of the sites, IVGID will assume responsibility for web site content maintenance and administration.			
Project Justification			
A full District website redesign/redevelopment/upgrade project was completed in fiscal year 2013-14. A scheduled redesign/redevelopment project is desired in order to remain current with Internet technology and maintain our primary internet objective: build brand identity, awareness, and interest in the District and the services it provides.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
District Websites Redesign	80,000	0	80,000
Year Total	80,000	0	80,000
	80,000	0	80,000
Year Identified	Start Date	Est. Completion Date	Manager
2014			Marketing Manager
			Project Partner



5 Year Capital Improvement Plan Summary - As of 5.22.19
Beaches

Department	Project Number	Project Title	Project Manager	2020	2021	2022	2023	2024	Total
Beaches									
	3970BD2601	Burnt Cedar Swimming and Toddler Pool Improvements	Engineering Manager	800,000	1,450,000	-	-	-	2,250,000
	3972BD1301	Pavement Maintenance, Ski Beach	Senior Engineer	11,000	6,000	8,500	15,000	256,000	296,500
	3972BD1501	Beaches Flatscape and Retaining Wall Enhancement and Replacement	Senior Engineer	55,000	55,000	55,000	55,000	55,000	275,000
	3972BD1707	Burnt Cedar Dumpster enclosure	Senior Engineer	10,000	35,000	-	-	-	45,000
	3972FF1704	Beach Furnishings	Parks Superintendent	-	7,000	21,000	-	-	28,000
	3972LI1201	Pavement Maintenance, Incline Beach	Senior Engineer	-	6,500	5,000	7,500	16,500	35,500
	3972LI1202	Pavement Maintenance, Burnt Cedar Beach	Senior Engineer	6,000	6,000	17,500	7,500	310,000	347,000
	3972RS1701	Replace Playgrounds	Principal Engineer	-	30,000	100,000	100,000	-	230,000
	3973FF1204	Incline Beach Kitchen	Food and Beverage Director	-	-	7,260	-	-	7,260
	3974FF1101	Burnt Cedar Beach Kitchen	Food and Beverage Director	-	-	6,800	-	-	6,800
	3999BD1702	Resurface Burnt Cedar Pool Patio Deck	Buildings Superintendent	-	29,100	-	-	-	29,100
	3999BD1703	Replace Ski Beach Entrance Gate	Buildings Superintendent	-	-	-	-	19,500	19,500
	3999BD1708	Ski Beach Bridge Replacement	Senior Engineer	-	-	-	120,000	-	120,000
	3999DI1706	Burnt Cedar Beach Backflow Device Replacement	Engineering Manager	-	-	-	45,000	-	45,000
	Total			882,000	1,624,600	221,060	350,000	657,000	3,734,660



Project Summary

Project Number:	3970BD2601
Title:	Burnt Cedar Swimming and Toddler Pool Improvements
Project Type:	D - Capital Improvement - Existing Facilities
Division:	70 - Beach Aquatics
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description	<p>The Burnt Cedar Swimming Pool and Toddler pool fiberglass surfaces require periodic replacement. Over time, discoloration, cracking and surface failure will create health and safety impacts to continued use of the pools. Breakdown of the pool surface will allow materials to cloud the water and make it unsanitary and the cloudy water is not meeting health dept safety code requirements. The service cycle on the pool shell resurfacing is generally 7 to 10 years based on physical inspection of the pool surface. There may also be a need to replace the pool drains and associated piping for better flow control and compliance with pool safety. There is also the potential to change the deep end of the pool since it is no longer a diving area. Staff will evaluate re-sloping the bottom of the pool to keep overall depths less than 6 feet deep from end to end to allow more casual recreational use of the entire pool.</p> <p>Aquatics and Buildings Maintenance Staff have determined that the pool piping is leaking in excess of 30,000 gallons per month. Subsequent leak testing and video inspection have indicated that the pool's main drain piping, skimmer piping, and return lines all have leaks and are at end of life. Replacement of the pool underground piping will be timed to coincide with the scheduled pool resurfacing. Work will involve cutting into both the concrete pool shell and the surrounding pool deck and excavating to replace the underground pipe and fittings.</p> <p>These upgrades will help address pool clarity during periods of peak use when the skimming and filtration system is overwhelmed resulting in pool shutdowns. Pool clarity driven shutdowns currently occur typically in the afternoons on peak Saturdays and heavily during Fourth of July week.</p> <p>Further discussion about an alternative solution as full replacement was started in earnest in April 2019. This possibility will be further vetted through the summer of 2019. To facilitate all the options from repair to replacement, the CIP Budget includes a first year amount to cover the most expensive repair option (\$800,000), while the second year CIP has funds (\$1,450,000), when added to year one, for the total present estimate (\$2,250,000) for a pool replacement.</p>
Project Internal Staff	<p>Engineering will manage the project. Director of Parks and Recreation will determine the needs for the project and coordinate project timing because the pool will need to be out of service with warmer temperature to complete the work.</p>
Project Justification	<p>On-going capital maintenance and replacement of the pool surfaces, piping, and mechanical equipment is necessary to ensure safe and regulatory compliant swimming facilities at the District. This project replaces the pool interior liner. This project will consider the regrading of the pool bottom to a consistent depth of 6-feet or less. Additional pool plumbing and equipment may need replacement at the end of the summer season. The potential modification of the pool bottom will be a process led by the Director of Parks and Recreation. Cost estimate for resurfacing based on recently awarded contract in Carson City. Construction cost estimate for regrading pool bottom for 300 cy of concrete fill plus piping improvements plus new bottom slab. The consideration of a full replacement reflects the potential for the community value to come from making an expenditure with a longer term benefit.</p>

Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Construction Contingency	75,000	0	75,000	
Construction Management and Inspection	50,000	0	50,000	
Design Services	75,000	0	75,000	
Drain piping improvements, regrade pool bottom with new slab and fill in existing deep end with CDF/backfill.	400,000	0	400,000	
Pool interior resurfacing	200,000	0	200,000	
Year Total	800,000	0	800,000	
2021				
Pool replacement, net of reallocating resurface and mechanical applied from year one, based on community direction	1,450,000	0	1,450,000	
Year Total	1,450,000	0	1,450,000	
2027				
Pool interior resurfacing	175,000	0	175,000	
Year Total	175,000	0	175,000	
2034				
Pool interior resurfacing	200,000	0	200,000	
Year Total	200,000	0	200,000	
	2,625,000	0	2,625,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2020	Engineering Manager	



Project Summary

Project Number: 3972BD1301
Title: Pavement Maintenance, Ski Beach
Project Type: E - Capital Maintenance
Division: 72 - Beach Maintenance
Budget Year: 2020
Finance Option:
Asset Type: BD - Buildings & Structures
Active: Yes

Project Description

Continued maintenance and repair of Ski Beach pavement assets, including boat ramp. This site includes approximately 25,000 sf of pavement. Engineering maintains a database for this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs

Project Internal Staff

Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.

Project Justification

Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. This site was slurry sealed in 2014. The pavement is showing signs of old age and scheduled for full replacement in 2023.

Forecast

Budget Year	Total Expense	Total Revenue	Difference
2020			
Crack fill and maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
repairs at Boat Ramp joint	5,000	0	5,000
Year Total	11,000	0	11,000
2021			
Crack fill and maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
Year Total	6,000	0	6,000
2022			
Crack fill and maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
repairs at Boat Ramp joint	2,500	0	2,500
Year Total	8,500	0	8,500
2023			
Crack fill and maintenance	5,000	0	5,000
Internal Services	10,000	0	10,000
Year Total	15,000	0	15,000
2024			
Crack fill and maintenance	5,000	0	5,000

Internal Services	1,000	0	1,000
Reconstruct Pavement	250,000	0	250,000
Year Total	256,000	0	256,000
2025			
Crack fill and maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
Year Total	6,000	0	6,000
2026			
Crack fill and maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
Year Total	6,000	0	6,000
2027			
Crack fill and maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
Year Total	6,000	0	6,000
2029			
Crack fill and maintenance	2,500	0	2,500
Internal Services	2,500	0	2,500
Slurry Seal	7,500	0	7,500
Year Total	12,500	0	12,500
2032			
Crack fill and maintenance	5,000	0	5,000
Internal Services	1,000	0	1,000
Slurry Seal	7,500	0	7,500
Year Total	13,500	0	13,500
	340,500	0	340,500

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2016	Jun 30, 2017	Senior Engineer	



Project Summary

Project Number:	3972BD1501
Title:	Beaches Flatscape and Retaining Wall Enhancement and Replacement
Project Type:	D - Capital Improvement - Existing Facilities
Division:	72 - Beach Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Wooden retaining walls, curbs, and flatscape are failing across all three beach properties. Additionally portions of the concrete flatscape is cracking and heaving. An outside consultants will determine the type of replacement materials best suited to the locations. Approach will utilize geo-block and pavers whenever possible. Construction will occur over multiple seasons.				
Project Internal Staff				
Engineering and Parks to oversee work.				
Project Justification				
Many of the existing wooden retaining walls and curbs are at the end of their useful lives and are showing signs of failure. Replacement of the wooden and concrete flatwork will not only reduce trip hazards but will also provide a significant aesthetic enhancement to the properties. At Burnt Cedar Beach wooden stairways are slated form replacement in 2018/2019 the ramp to the beach improved in 2019/2020. At Incline/Ski Beach curbing along the north property lines is slated for replacement in 2020/2021. Similarly, additional work along parking lots and north property lines at Burnt Cedar Beach in 2021/2022.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Burnt Cedar Beach - ramp	50,000	0	50,000	
Internal Services	5,000	0	5,000	
Year Total	55,000	0	55,000	
2021				
Incline/Ski Beach- Planters	50,000	0	50,000	
Internal Services	5,000	0	5,000	
Year Total	55,000	0	55,000	
2022				
Burnt Cedar Beach Parking Lots and Property Line	50,000	0	50,000	
Internal Services	5,000	0	5,000	
Year Total	55,000	0	55,000	
2023				
Burnt Cedar Beach West End improvements	50,000	0	50,000	
Internal Services	5,000	0	5,000	
Year Total	55,000	0	55,000	
2024				
Burnt Cedar Beach West End improvements	50,000	0	50,000	
Internal Services	5,000	0	5,000	
Year Total	55,000	0	55,000	
	275,000	0	275,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2014	Jul 1, 2016	Jun 30, 2017	Parks Superintendent	



Project Summary

Project Number:	3972BD1707
Title:	Burnt Cedar Dumpster enclosure
Project Type:	D - Capital Improvement - Existing Facilities
Division:	72 - Beach Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Replacement of the existing dumpster enclosure				
Project Internal Staff				
Parks Superintendent				
Project Justification				
The current dumpster enclosure is built out of wood and is frequently damaged during normal operations and trash removal. IVGID standards state that dumpster enclosures must be built out of metal or stone. This project will bring the enclosure up to standard and save the cost of frequent repairs, and having to stain the wood. The enhancement to the enclosure will also be an additional place for a recycling dumpster, as well as allowing the trash dumpster to be increased from a 4-yard unit to a 6-yard dumpster. This will make Parks staff more efficient at collecting and improve recycling efforts.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Dumpster Enclosure	10,000	0	10,000	
Year Total	10,000	0	10,000	
2021				
Dumpster Enclosure	35,000	0	35,000	
Year Total	35,000	0	35,000	
	45,000	0	45,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2019	Jun 30, 2021	Senior Engineer	



Project Summary

Project Number:	3972FF1704
Title:	Beach Furnishings
Project Type:	G - Equipment & Software
Division:	72 - Beach Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description			
Replace park benches, bear boxes, and picnic tables as the useful life is reached. This is the annual routine replacement cycle for a collection of bear boxes, benches, and barbeques, beach chairs and picnic tables.			
Project Internal Staff			
Parks Superintendent			
Project Justification			
Useful life of some of these items has been reached and they are scheduled for replacement. Currently plastic tables are being used at Burnt Cedar for the snack bar area and pool deck. These plastic tables are easily damaged and do not meet the standard for providing a positive experience at the facility. They also do not meet our standards for being secure, level, stable surface for children and adults. Some of the new tables will meet standards for wheelchair accessibility. Each year from our pool of lounge chairs we have to remove about five from service for damage. Currently we repair broken straps on the old chairs each year as well. Chairs are on a five- year replacement plan. Each year parks borrows 15- 20 circular metal tables from the Ski Area. We see the possibility in the coming future with the Ski Area needing these tables during their summer operations. We look to include these 15 additional tables in the snack bar area at Incline Beach, at the east side barbeque areas, and Ski Beach barbeque areas. Some of our tables at the beach have also met their useful life and cannot be repaired. These are an older style (Treks plastic) and are being phased out as they exceed the expected lifespan. They are not handicap accessible and aren't up to the current standard of an all metal green coated tables. Bears are very active in our area and love to try and retrieve garbage out of the bear boxes at the beach. Some of the current bear boxes have been in service for 10 years now are coming to the end of their useful life span. The useful life of our park barbeques is around ten years.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2021			
15 BBQ Units	7,000	0	7,000
Year Total	7,000	0	7,000
2022			
15 double bear boxes	21,000	0	21,000
Year Total	21,000	0	21,000
	28,000	0	28,000
Year Identified	Start Date	Est. Completion Date	Manager
2016			Parks Superintendent
			Project Partner



Project Summary

Project Number:	3972LI1201
Title:	Pavement Maintenance, Incline Beach
Project Type:	E - Capital Maintenance
Division:	72 - Beach Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description

Continued maintenance and repair of Incline Beach. Ski Beach has a separate data sheet. This area includes approximately 30,000 sf of pavement. Engineering maintains a database on this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs.

Project Internal Staff

Engineering to perform design, bid, contract administration and inspection tasks. Work to be done by outside contractor.

Project Justification

Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. These sites were slurry sealed in 2014.

Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Crack fill and Maintenance	5,000	0	5,000	
Internal Services	1,500	0	1,500	
Year Total	6,500	0	6,500	
2022				
Crack fill and Maintenance	5,000	0	5,000	
Year Total	5,000	0	5,000	
2023				
Crack fill and Maintenance	6,000	0	6,000	
Internal Services	1,500	0	1,500	
Year Total	7,500	0	7,500	
2024				
Internal Services	1,500	0	1,500	
Slurry Seal	15,000	0	15,000	
Year Total	16,500	0	16,500	
2027				
Internal Services	10,000	0	10,000	
Reconstruct Incline Beach	300,000	0	300,000	
Year Total	310,000	0	310,000	
2029				
Crack fill and Maintenance	5,000	0	5,000	
Internal Services	2,500	0	2,500	
Year Total	7,500	0	7,500	
2032				
Crack fill and Maintenance	5,000	0	5,000	
Internal Services	1,500	0	1,500	
Slurry Seal	15,000	0	15,000	
Year Total	21,500	0	21,500	
	374,500	0	374,500	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2029	Senior Engineer	



Project Summary

Project Number:	3972LI1202
Title:	Pavement Maintenance, Burnt Cedar Beach
Project Type:	E - Capital Maintenance
Division:	72 - Beach Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	LI - Land Improvements
Active:	Yes

Project Description

Continued maintenance and repair of Burnt Cedar Beach pavement assets. Site includes approximately 80,000 sf of pavement. Engineering maintains a database for for this and other facilities for pavement condition, past projects and forecasts long-term maintenance and replacement needs.

Project Internal Staff

Engineering to perform design, bid, contract administration and inspection tasks. Outside contractor to do the work.

Project Justification

Regular preventative maintenance of pavement significantly increases the life of a facility and defers the timeline for which wholesale replacement is required. Once pavement has reached its expected lifespan and begins to fail, major rehabilitation is required. Tahoe's freeze/thaw climate and snow removal operations accelerate deterioration. Site partially resurfaced in 2013 and slurry sealed.

Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2020				
Crack fill and Maintenance	5,000	0	5,000	
Internal Services	1,000	0	1,000	
Year Total	6,000	0	6,000	
2021				
Crack fill and Maintenance	5,000	0	5,000	
Internal Services	1,000	0	1,000	
Year Total	6,000	0	6,000	
2022				
Crack fill and Maintenance	15,000	0	15,000	
Internal Services	2,500	0	2,500	
Year Total	17,500	0	17,500	
2023				
Engineering Services	7,500	0	7,500	
Year Total	7,500	0	7,500	
2024				
Internal Services	10,000	0	10,000	
Reconstruct	300,000	0	300,000	
Year Total	310,000	0	310,000	
2025				
Internal Services	5,000	0	5,000	
Reconstruct	300,000	0	300,000	
Year Total	305,000	0	305,000	
2029				
Internal Services	2,500	0	2,500	
Slurry Seal	30,000	0	30,000	
Year Total	32,500	0	32,500	
2034				
Crack fill and Maintenance	5,000	0	5,000	
Slurry Seal	30,000	0	30,000	
Year Total	35,000	0	35,000	
	719,500	0	719,500	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2019	Jun 30, 2029	Senior Engineer	



Project Summary

Project Number:	3972RS1701
Title:	Replace Playgrounds
Project Type:	E - Capital Maintenance
Division:	72 - Beach Maintenance
Budget Year:	2020
Finance Option:	
Asset Type:	RS - Recreation System
Active:	Yes

Project Description				
Replace playgrounds at Incline Beach and Burnt Cedar Beach as part of the on-going capital maintenance and replacement of the District's Beach assets and infrastructure. This work will be completed based on inspection and evaluation of the condition of the existing facilities.				
Project Internal Staff				
Buildings and Parks Staff will supervise, help with installation and inspect project, including excavation, installation of drainage and fall material and installation of play equipment.				
Project Justification				
Condition driven replacement of playgrounds will provide an established safe area for children to play.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Design	30,000	0	30,000	
Year Total	30,000	0	30,000	
2022				
Replace playground Incline Beach	100,000	0	100,000	
Year Total	100,000	0	100,000	
2023				
Replace Playground Burnt Cedar Beach	100,000	0	100,000	
Year Total	100,000	0	100,000	
	230,000	0	230,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012	Jul 1, 2020	Jun 30, 2023	Principal Engineer	



Project Summary

Project Number:	3973FF1204
Title:	Incline Beach Kitchen
Project Type:	G - Equipment & Software
Division:	38 - Beach Food and Beverage
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description				
Staff has made an assessment of each major element of the Kitchen equipment. Based on estimated useful lives and knowledge of the performance of the current equipment, a replacement schedule has been developed and restated below.				
Project Internal Staff				
Project Justification				
Items presented are replacement of the same item as presently in service. There are no changes to capacities. However, properly performing equipment is essential to maintaining health and safety standards as well as serving customers timely and with a quality product. The equipment has lived out its life cycle				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2022				
Dishwashing machine	7,260	0	7,260	
Year Total	7,260	0	7,260	
	7,260	0	7,260	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2012			Food and Beverage Director	



Project Summary

Project Number:	3974FF1101
Title:	Burnt Cedar Beach Kitchen
Project Type:	G - Equipment & Software
Division:	39 - Burnt Cedar Fd & Bev
Budget Year:	2020
Finance Option:	
Asset Type:	FF - Furniture and Fixtures
Active:	Yes

Project Description					
Staff has made an assessment of each major element of the Kitchen equipment. Based on estimated useful lives and knowledge of the performance of the current equipment, a replacement schedule has been developed reflected below.					
Project Internal Staff					
Chef will receive equipment, set up and install with delivery person.					
Project Justification					
Items presented are replacement of the same item as presently in service. There are no changes to capacities. However, properly performing equipment is essential to maintaining health and safety standards as well as serving customers timely and with a quality product.					
Forecast					
Budget Year	Total Expense	Total Revenue	Difference		
2022					
Dishwasher under counter	6,800	0	6,800		
Year Total	6,800	0	6,800		
	6,800	0	6,800		
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner	
2012			Food and Beverage Director		



Project Summary

Project Number:	3999BD1702
Title:	Resurface Burnt Cedar Pool Patio Deck
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Beach
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
The Burnt Cedar Pool facility was refinished and sealed in the spring of 2011. This project represents the normal cycle for deck resealing. The deck and patio will be monitored by Staff to determine the exact scheduling of the project.				
Project Internal Staff				
Buildings Staff will supervise and inspect contractor installation project.				
Project Justification				
The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Burnt Cedar Beach asset and customer service.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2021				
Contingency	4,600	0	4,600	
Deck reseal	23,000	0	23,000	
Internal Services	1,500	0	1,500	
Year Total	29,100	0	29,100	
2025				
Contingency	2,200	0	2,200	
Deck reseal	17,500	0	17,500	
Internal Services	1,500	0	1,500	
Year Total	21,200	0	21,200	
2029				
Contingency	2,000	0	2,000	
Deck reseal	16,500	0	16,500	
Internal Services	1,750	0	1,750	
Year Total	20,250	0	20,250	
2035				
Contingency	2,500	0	2,500	
Deck reseal	18,000	0	18,000	
Internal Services	2,000	0	2,000	
Year Total	22,500	0	22,500	
	93,050	0	93,050	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2013			Buildings Superintendent	



Project Summary

Project Number:	3999BD1703
Title:	Replace Ski Beach Entrance Gate
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Beach
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description
 The front security gate at Ski Beach was repaired and partially replaced in 2006. The gate is locked at different times seasonally and on holidays to restrict boat and foot traffic. The gate is rolled manually to open or close and is secured by a padlock. Normal aging through wear and tear, as well as weathering, have begun to affect the components and metal escalating repair costs and making replacement necessary before complete failure.

Project Internal Staff
 Buildings Maintenance Staff

Project Justification
 The general purpose of this project is to improve our facilities through required maintenance and remodel improvements that directly or indirectly reflect on our guest experience. This project is designed primarily to maintain the value of the Ski Beach asset and customer service

Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2024			
Contingency	1,500	0	1,500
Internal Services	3,000	0	3,000
Replace Ski Beach Main Entrance Gate	15,000	0	15,000
Year Total	19,500	0	19,500
2032			
Contingency	1,500	0	1,500
Internal Services	4,000	0	4,000
Replace Ski Beach Main Entrance Gate	19,000	0	19,000
Year Total	24,500	0	24,500
	44,000	0	44,000

Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2016	Sep 1, 2016	Nov 1, 2016	Buildings Superintendent	



Project Summary

Project Number:	3999BD1708
Title:	Ski Beach Bridge Replacement
Project Type:	D - Capital Improvement - Existing Facilities
Division:	99 - General Administration - Beach
Budget Year:	2020
Finance Option:	
Asset Type:	BD - Buildings & Structures
Active:	Yes

Project Description				
Replacement of the two bridges that provide access to Incline Beach, Ski Beach and Hermit Beach				
Project Internal Staff				
Parks Superintendent				
Project Justification				
The two bridges at the 960 Lakeshore (Ski & Incline Beach) lot receive a lot of use. They have been repeatedly repaired by IVGID staff throughout the years. The "rainbow" bridge between Incline Beach and Ski Beach serves to allow customer to cross between the two beaches and provides access for utility vehicles to go between without interfering with traffic on Lakeshore. The rainbow bridge does not meet ADA slope standards; the rise and run are too steep to facilitate easy access by a wheel chair. The Washoe County pathway bridge has bollards that do not allow for small vehicle use. The rainbow bridge does not meet ADA slope standards; the rise and run are too steep to facilitate easy access by a wheel chair. The bridge between Ski Beach and Hermit Beach is worn and is starting to deteriorate. Repairs have been made to support the handrails and bridge treads, the end of this bridges life has been met. Each new bridges cost is estimated at \$60,000.				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2023				
Bridge Replacement	120,000	0	120,000	
Year Total	120,000	0	120,000	
	120,000	0	120,000	
Year Identified	Start Date	Est. Completion Date	Manager	Project Partner
2017	Jul 1, 2022	Jun 30, 2023	Senior Engineer	



Project Summary

Project Number:	3999DI1706
Title:	Burnt Cedar Beach Backflow Device Replacement
Project Type:	E - Capital Maintenance
Division:	99 - General Administration - Beach
Budget Year:	2020
Finance Option:	
Asset Type:	DI - Distribution Infrastructure
Active:	Yes

Project Description			
This project will replace the failing and non-compliant 6-inch double check backflow device at Burnt Cedar Beach with a new reduced pressure zone assembly. Doing so replaces a failed piece of critical infrastructure and brings the entire assembly into compliance with the requirements of the most recent edition of the Uniform Plumbing Code. In order to complete the work, the piping must be reconfigured to remove the existing device from an underground vault and move the assembly to an above ground location as reduced pressure zone assemblies must be installed above ground.			
Project Internal Staff			
The project will be overseen by the District's Engineering Division with support from the Utilities Compliance Division.			
Project Justification			
The District maintains an inventory of backflow devices (13 total devices ranging in size from 1-inch to 6-inches) on all District owned irrigation systems. Backflow devices are required on irrigation systems by the Uniform Plumbing Code, the State of Nevada Administrative Code, and the District's Water Ordinance in order to protect the potable water system from contamination introduced via back siphoning from the irrigation system. These devices must be tested annually and are repaired as needed. Occasionally a backflow device cannot be repaired and must be replaced due to condition or availability of parts.			
Forecast			
Budget Year	Total Expense	Total Revenue	Difference
2023			
Backflow Device	6,000	0	6,000
Construction and Installation	35,000	0	35,000
Internal Services	4,000	0	4,000
Year Total	45,000	0	45,000
	45,000	0	45,000
Year Identified	Start Date	Est. Completion Date	Manager
2016	Jul 1, 2022	Jun 30, 2023	Engineering Manager
			Project Partner