

Portland Parks and Recreation



Facility Profile:	
Columbia Campus 7701 N Chautauqua Blvd Portland, OR 972	
Associated PropertyID(s): 17, 1104, 1106	
Building Floor Area:	* 23,518 ft ²
Park Acreage:	42.86 acres
Number of Buildings:	5
Year Built/Acquired:	1909-1940
Annual Energy Use:	6,336,687 kBtu/yr
Annual Energy Cost:	\$80,937
Annual Water Use:	12,228 ccf/yr
Annual Water/Sewer Cost:	\$108,699
Annual Consumption & Costs from Last 12 months of Data Available	



Community Center Hours of Operation			Facility Use Description
	Summer (Apr-Sep)	Winter (Oct-Mar)	
Monday	6am-1pm, 4pm-8pm	6:00am - 8:00pm	Columbia Park is open to the public between the hours of 5am and midnight. Columbia Pool is open to the public between the hours of 6am-1pm and 4pm-8pm in the summer and 6am-8pm during the winter.
Tuesday	6am-1pm, 4pm-8pm	6:00am - 8:00pm	
Wednesday	6am-1pm, 4pm-8pm	6:00am - 8:00pm	
Thursday	6am-1pm, 4pm-8pm	6:00am - 8:00pm	
Friday	6am-1pm, 4pm-8pm	6:00am - 8:00pm	
Saturday	6am-1pm, 4pm-8pm	6:00am - 8:00pm	
Sunday	6am-1pm, 4pm-8pm	6:00am - 8:00pm	
			General Facility Notes
			This facility includes Columbia Park, Columbia Park Annex, and Columbia Pool and consists of two playgrounds, a splash pad, ADA compliant restrooms, baseball field, handball court, reservable picnic site, soccer field, lit tennis court, volleyball court, the Columbia Cottage, softball fields, basketball hoop, football field, horseshoe pit, and an indoor swimming pool and locker rooms.

Heating, Ventilation & Air Conditioning (HVAC) Equipment & Controls			
Item	Equipment Description	ODOE/ETO Equipment Life (yrs)	Remaining Useful Life (yrs)
Heating	Electric & Natural Gas	15-20	End of Useful Life - 13
Cooling	DX (Electric)	15	10
Air Distribution	Constant Volume	25	20
HVAC Controls	Direct Digital Controls (DDC) (WebCTRL)	15	15

Water & Irrigation Equipment & Controls			
Item	Equipment Description	ODOE/ETO Equipment Life (yrs)	Remaining Useful Life (yrs)
Water Fixtures	High Flow (Site Has Splash Pad)	10	End of Useful Life
Fixture Controls	Manual (Automatic Splash PadCtrls)	10-15	5-10
Irrigation Controls	Rain Bird - MAXICOM	20	10
Booster/Irrig Pump(s)	N/A	N/A	N/A
Well(s)	N/A	N/A	N/A

Lighting Systems & Controls			
Item	Equipment Description	ODOE/ETO Equipment Life (yrs)	Remaining Useful Life (yrs)
Building Lighting	Interior: CFL, T8 Lamps	5-20	End of Useful Life - 10
	Exterior: CFL, T8 Lamps, HID (WP/Canopy)	5-18	End of Useful Life - 10
Pathway Lighting	Lantern Fixtures (47x Lamps)	15	10
Lighting; Other	Tennis Court Lighting (8x HID Lamps)	15	10
Lighting Controls	Time Clocks, Astronomical Clocks, & Photocells	10-15	1-15

Other Facility Information			
Item	Equipment Description	ODOE/ETO Equipment Life (yrs)	Remaining Useful Life (yrs)
Domestic Hot Water	Electric & Natural Gas	15-20	11
Existing Solar PV	No	N/A	N/A
Potential for Net Zero	No	Notes	
Potential for Well	Yes	Important Note: Park sits above old subterranean transit tunnel	
BEECN	N/A	Basic Earthquake Emergency Communication Node	

*Floor area based on calculated area and not values found in PPR MS Access Database



Project Development Plan (PDP) Summary

Project Scenario: Portland Parks & Recreation ESPC Pilot
 Date: Phase I ESPC Pilot plus MCC & E Delta Well Pump
 May 23, 2019

Included	FIM Name	FIM Description	Facility	Budget *
Y	03.00-1106 Air-Side & Unitary HVAC Equipment Upgrades	Columbia Pool; Decrease pool temperature (currently 86F) to 82F and change control of natatorium AHU-1 to maintain air temperature (84F) and relative humidity (50%) appropriately. Note; Air temperature should always be maintained at 2-4F above pool water temperature to minimize evaporative losses but should never exceed the comfort threshold of 86F. Replace pool natatorium HVAC unit (AHU-1) and front office RTU (RACU-1) with new more efficient units.	Columbia Pool	\$1,148,395
Y	08.00-1106 Install VFD on Pool Pump(s)	Install a ABB VFD on the 15 HP main pool circulation pump at Columbia Pool. Pump to turn down during unoccupied times when less circulation is required.	Columbia Pool	\$26,941
Y	09.06-1106 Building Interior Lighting LED Conversion	Convert existing lighting to LED technology via a re-lamp approach.	Columbia Pool	\$62,453
Y	13.01-1106 Replace Roofing	Replace entire roof of Columbia Pool Building. Replace rotted wood assemblies as needed. Add insulation to pool room roof area (increase roof assembly to code min R-20ci).	Columbia Pool	\$1,562,467
Y	16.00-1106 Install Vending Misers	Install Vending Misers vending machine plug load management system for (1x) cold drink machine at Columbia Pool.	Columbia Pool	\$447
Y	17.02-1106 Pool Filtration Upgrade	Upgrade pool filtration system at Columbia Pool from a sand filtration system to a renewable media system that requires less makeup water.	Columbia Pool	\$255,906
Y	18.00-1106 Water Fixture Retrofits	Install low flow aerators, low flow shower heads, and RCx water closet flush valves.	Columbia Pool	\$13,217