

Ongoing Priorities

Park	Project	Cost Estimates		Notes
		Low	High	
Red Rocks	Water Bars	\$60,000.00	\$150,000.00	All trail improvement/maintenance work for Red Rocks is pending site stormwater evaluation and identification of stormwater infrastructure to accompany needed trail work as part of a required permitting process. Once the evaluation is completed, engineering will need to occur to design any facility that will accompany a trail project. The goal of the trail projects is to update them so they will only need regular annual maintenance. The City did receive a trail assessment report from Timber & Stone LLC in 2019 that provides recommendations for trail improvements and a prioritization of trail projects. The revised cost estimates assume ~50,000 per required stormwater management facility, assuming 2 may be needed for three projects. One of these projects includes making the Double Dog Loop an accessible trail within the park.
Red Rocks	The Trail Surface			
Red Rocks	Areas of erosion			
Red Rocks	Invasive plant management			
Red Rocks	Closure/opening of unofficial trails			
Red Rocks	Complete major trail repairs, installation of new waterbars			
Wheeler Nature Park	Bridge removal + replacement trail widening	\$5,000.00	\$20,000.00	The Winooski Valley Park District completed bridge work in the summer of 2019. There may be additional structural and trail needs that will be identified in the report that was commissioned in 2019 to assess all of Wheeler's trails.
Wheeler Nature Park	Trails	\$20,000.00	\$50,000.00	A trail assessment was commissioned by the City in the spring of 2019 to determine the needed maintenance/improvements to the trails at the park. This report will highlight priority trail issues, recommended improvements, project prioritization, and potential closure of trails.
Wheeler Nature Park	Remove obstructions on trails			
Wheeler Nature Park	Deter the use of unauthorized trails by discontinuing weed whacking			
Wheeler Nature Park	Provide effective use of trails by blazing trees - or color tree tabs - and updating maps, guides and other informational materials annually			
Wheeler Nature Park	Test stream hydrology - regularly			Chittenden County Stream Team. No Cost. What does DPW do with the information?
Ongoing Totals		\$85,000.00	\$220,000.00	

Priority 1

Park	Project	Cost Estimates		Notes	STATUS (10/4/2019)
		Low	High		
Red Rocks	Phase 1: Park Access Parking Redesign	\$45,000.00	\$60,000.00	Redesign of the current exterior parking area to formalize an entrance, close off spur trails from front parking lot, add parking signage and striping, and create a new gate at the entrance. Staff is considering this Phase 1 of a potential long-term access upgrade for the park.	Staff reviewed a conceptual plan in the summer of 2019, and this is being revised by the consultant.
Red Rocks	Invasive plant management training annually	\$1,000.00	\$3,000.00	Contract with invasive plant management professional to assist staff in carrying out plant removal operations in the park. This includes training VYCC and Weed Warrior volunteers. Current contract is for 3 years.	Completion of 2019 invasive plant removal work. There was 1 Weed Warrior event, 2 Community Hikes, and VYCC was in the park managing invasives for 1 week.
Red Rocks	Signage, wayfinding, and park information	\$5,000.00	\$20,000.00	Based on: <u>2 recommended locations</u> at trail intersections for directional/wayfinding signage (square markers); <u>25 estimated locations</u> for in/out trail directions; <u>1 bulletin board</u> recommended at park entry; and one interpretive sign. Interpretive sign includes park inset map.	Most of the new wayfinding signage has been installed at the park. Staff is still working on finalizing 5 new interpretive signs and 5 different kiosks. That could be in this fall/early spring 2020. Additional signage may be needed to compliment subsequent trail work (i.e.: addition of new trails/closure of trails).
Red Rocks	Accessible path to bath house	\$30,000.00	\$40,000.00	Assumes 30' width, 200' length. Low end \$150/LF for gravel path. High end \$200/LF for paved path. Path needs to be wide enough for vans+E40.	Staff is waiting to initiate this project until other trail work is completed.
Red Rocks	Accessible path to the beach	\$12,000.00	\$20,000.00	ADA access mat	Staff is waiting to initiate this project until other trail work is completed.
Red Rocks	Possible fence reconfiguration to allow for accessible parking near bathhouse	\$2,500.00	\$3,500.00	Assumes removing and installing 50LF of fence with one gate; to be confirmed by the City. \$50/LF (Low) to \$70/LF (High)	Staff is waiting to initiate this project until other trail work is completed.
Red Rocks	Bike racks			Assumes one bike rack at entrance and one at the beach. Low end 1 10' bike rack. High end 2 10' bike racks. Note: Local Motion is an authorized representative for Dero bike rack vendor. Local Motion can assist with choosing racks and ordering. The cost is the same as direct order, with a portion benefiting Local Motion.	COMPLETED: Bike racks were installed this summer at the park in two locations (Summer 2019). They were paid for out of the General Park Maintenance Budget and not Open Space Funds.
Red Rocks	Erosion of area near bath house: Beach and Shoreline Stabilization & Stormdrain Protection	\$35,000.00	\$60,000.00	Staff has contracted these projects out for design/engineering to look at the best way to stabilize the shoreline, improve wildlife habitat, correct eroding trails, and remove exposed infrastructure. Any trail work will be covered in the overall park trail project plan.	Staff reviewed a conceptual plan in the summer of 2019, and this is being revised by the consultant.
Red Rocks	Parking and traffic management study			Parking, traffic, and use will be considered when Staff begin the review and update process for the park's existing Management Plan. At that time, staff will consider how to update the parking section of the management plan to better reflect the park's current use.	2 Community Hikes were completed as part of the Management Plan review process; Survey has been created to begin capturing public input on use of the park.
Underwood Property	Complete Master Plan			Detailed plan to follow up on Visioning Task Force work. Protect \$50,000	COMPLETED: May 2018
Underwood Property	Implementation of Master Plan (Details may include the following within Phase 1)	\$50,000.00	\$300,000.00	Staff will be putting out an RFP to hire a consultant to design and engineer Phase 1 of Underwood. This includes creating access for the public to passively use the property. Part of this phase includes formalizing the existing trail network and designing trails that work well with the landscape, design of a shared use path connecting the South Pointe neighborhood to Nowland Farm Drive, an off-road parking area, small picnic grove, and possible pump track.	Staff is working on drafting the RFP. Internally, staff have been discussing the results of a wetland delineation to help determine location of amenities that were originally identified in the Master Plan. This helped identify the need for community access to the parcel and turned the focus to connectivity. Hoping to receive completed plans at the end of 2020.
Wheeler Homestead	20' Accessible path to picnic tables; tree planting & wildflower field.	\$21,500.00	\$42,500.00	Assumes 20' path. Low end is 8-foot wide aggregate surface path 2014 costs; High end is 12-foot wide bituminous concrete path 2010 costs. VTrans Report on Shared-Use Path and Sidewalk Unit Costs. Assumes 50 trees at \$250/tree (low) - \$500/tree (high). Cost per acre to prepare field, buy seed mix, prepare seed mix for spreading, spreading and maintaining until mature growth.	Following the City Council's decision to locate a Dog Park in this general area, this project is no longer feasible.
Wheeler Homestead	Accessible picnic tables			3-6 accessible tables at \$1000 per table.	Completed and placed 2018
Wheeler Homestead	Bike racks			Low end 1 10' bike rack; High end 2 10' bike racks. Note: Local Motion is an authorized representative for Dero bike rack vendor. Local Motion can assist with choosing racks and ordering. The cost is the same as direct order, with a portion benefiting Local Motion.	COMPLETED: Bike racks were installed this summer at the park in two locations (Summer 2019). They were paid for out of the General Park Maintenance Budget and not Open Space Funds.
Wheeler Homestead	ADA portable Restrooms			Based on \$160/month/unit. Low end - 6 month rental, high end - 9 month rental.	Completed - Paid for monthly out of General Park Maintenance budget and not Open Space Funds.
Wheeler Nature Park & Red Rocks Park	WVDP Park Projects	\$5,000.00	\$10,000.00	Pending the need for specific park projects, staff will work with WVDP annually to see if there are projects they can take the lead on in the City's Natural Areas.	The City did not contract with WVDP for planning and project management services in 2019. Staff did contract with them to build two bridges at Wheeler for ~\$8,600.
Wheeler Nature Park	Signage, wayfinding, and park information	\$5,000.00	\$20,000.00	Design, fabrication, and installation of new park id signs, directional signs, interpretive signs, kiosk panels, and other signs as needed to assist in helping users navigate the site and tell the story of the property.	Directional signage was mapped and confirmed during the spring/summer of 2019. A UWM NR206 class began working on interpretive signs in the fall of 2019. Goal is to have designed signs fabricated over the winter and to install in spring/summer 2019.
Wheeler Nature Park	Utilize best practices for grasslands and shrublands to maintain wildlife habitat.	\$8,000.00	\$12,000.00	Low (\$400/ac) for grass only; high (\$600/ac) for shrublands. Assumes 20 acres.	Ongoing - DPW staff already brushhogs the meadow area to battle invasive buckthorn. Equipment was purchased in 2019 to remove larger woody vegetation. Staff will be connecting with natural resource professionals (i.e.: Audubon) to ensure that best management practices are being met to promote wildlife habitat in our parks.
Wheeler Nature Park	Remove and control Non-Native Invasive Species, especially along trails (controlled setting, goat/sheep, brush hog)	\$8,000.00	\$12,000.00	Cost provided by City. Some of the cost estimate considers using goats for plant removal, and includes personnel, care taker, animals, and supplies. There is also some cost associated with contractor and VYCC.	Ongoing - DPW is already working to remove plants with larger equipment. Completed 2nd season with professional invasive plant removal contractor. Also held 2 Weed Warrior events, and had VYCC in the park removing invasive plants for 1 week.
Wheeler Nature Park	Prune shrubby vegetation and tree branches and release mast trees to reduce encroachment	\$8,000.00	\$30,000.00	Assumes 20 trees. Per Tree Cost: Low (\$400/tree) for one person; high (\$1,500/tree) for two people + chipper/blower. (Or \$10,000/ac).	
Wheeler Nature Park	Bike racks near entrances			Low end 1 10' bike rack; High end 2 10' bike racks. Note: Local Motion is an authorized representative for Dero bike rack vendor. Local Motion can assist with choosing racks and ordering. The cost is the same as direct order, with a portion benefiting Local Motion.	COMPLETED: Bike racks were installed this summer at the park in two locations (Summer 2019). They were paid for out of the General Park Maintenance Budget and not Open Space Funds.
Priority 1 Totals		\$236,000.00	\$633,000.00		
Ongoing + Priority 1 Cumulative		\$332,000.00	\$778,000.00		

Priority 2

Park	Project	Cost Estimates		Notes	Status
		Low	High		
Red Rocks	Stone Walls - expert should be consulted for repairs	\$3,500.00	\$6,000.00	Assumes 100LF to repair walls using existing materials at \$35/LF (Low) and replace walls with new materials at \$65/LF (High).	Staff is waiting to initiate this project until other trail work is completed.
Wheeler Homestead	Make Path to Tree House Accessible	\$5,000.00	\$15,000.00	Assumes 5' wide x 100 linear feet of path at \$50/LF for gravel path. High end \$150/LF for paved path.	Waiting to include this in project prioritization after review of trail assessment report that was requested in spring of 2019.
Wheeler Nature Park	Improve Polash brook watershed through storm water retention & filtration to help with natural eco system. Include streambank erosion water expert	\$12,000.00	\$75,000.00	Consultant to recommend necessary measures to protect watershed.	Staff contracted out a wetland delineation of the entire parcel. Once trail projects and the wayfinding project is in process, staff will take a look at restoration or other water quality projects that might exist on-site.
Red Rocks	Phase 2: Park Access Parking Redesign	\$20,000.00	\$200,000.00	Depends on the needs resulting from the revisions to the existing park management plan and the vision for implementing changes to meet the needs. This might include expanding the access area into the park entrance.	When staff reviewed the concept for Phase 1 in summer of 2019, Phase 2 was discussed as the long-term vision for the parking area.
Red Rocks	Enhance beach	\$165,000.00	\$330,000.00	Low end assumes 1500CY of sand delivered (\$110/CY). High end assumes 3000 CY of sand delivered. City to provide labor for spreading/raking across beach area.	This project is not a priority until the shoreline erosion issues are corrected.
Underwood Property	Utilities, Power, Park Stormwater Elements	\$130,000.00	\$210,000.00	Potential Phase 2 of the Underwood Master Plan.	Department has indicated they are not interested in furthering a design for the identified stormwater feature noted on the Master Plan due to existing wetlands on-site. There is no immediate need for utilities or power, so this "Phase 2" is pending further use and planning of the site.
Underwood Property	Complete restoration projects, including the management of invasive and non-native plants.	\$5,000.00	\$200,000.00	Meadow, Riparian and Forest are included. Low end includes volunteer and consultant removal efforts. High end includes purchase of additional equipment for the purpose of City management on-site.	Ecological assessment of the parcel was initiated by a group from the 2019 Master Naturalist Program. Staff received wetland delineation from consultant in fall of 2018. Invasive plant contractor initiated a review of the species on-site and began planning for management of invasives in 2020. Staff hope to plan at least 1 Weed Warrior event there, and possibly get the VYCC on-site.
Priority 2 Subtotals		\$40,500.00	\$1,036,000.00		
Ongoing + Priority 1 + Priority 2 (to this point) Cumulative		\$379,460.00	\$1,789,440.00	Expectation is to meet the \$1.3 million at this point. Remaining items below are not prioritized.	
Underwood Property	Build phase 3 of recreational elements from Master Plan (e.g. strider park/pump track, wildplay/natural playground, etc.)	\$50,000.00	\$160,000.00	Specific elements to be refined through Master Plan	
Underwood Property	Build first phase of agricultural elements from Master Plan (land preparation for traditional ag/orchard, etc.)	\$30,000.00	\$50,000.00	Specific elements to be refined through Master Plan	Staff coordinated the identification of the 4 acres of tillable land for Common Roots in 2019.
Underwood Property	Build restroom facility	\$80,000.00	\$130,000.00		
Underwood Property	Build one brook crossing	\$80,000.00	\$200,000.00		
Underwood Property	Build Phase 3 Parking and vehicle circulation	\$50,000.00	\$60,000.00		
Underwood Property	Neighborhood Stormwater Retention Pond	\$220,000.00	\$500,000.00	Needs clarification	On Hold due to wetland location.
Underwood Property	Phase 1 Construction documents, engineering, architecture, planning	\$240,000.00	\$423,000.00	Assumed at 30% of construction costs	
Wheeler Homestead	Future use of homestead - upgrade house, elevator, & ADA (kitchen, steps, fire escape)	\$50,000.00	\$150,000.00	Assumes existing building to remain in place with renovation of 1000 sf of interior space. \$50/sf for 1000 SF low end, \$150/sf for 1000 SF high end.	Staff note: Not appropriate use of Open Space Funds.
Priority 2 Totals		\$840,500.00	\$2,709,000.00		
Ongoing + Priority 1 + Priority 2 Accumulative		\$1,179,460.00	\$3,462,440.00		