

ITEM 1 - APPLICATION SUMMARY - 2012 APPLICATION

General Contact Information:

Grant Applicant:	City of Red Wing
Contact Person:	Brian C. Peterson, AICP
Contact Title:	Planning Director
Mailing Address:	315 West Fourth Street, Red Wing, MN 55066
Phone:	651/385-3617
E-mail address:	Brian.Peterson@ci.red-wing.mn.us

Park Information:

Project Name:	Memorial Park Phase II Improvements
Project County:	Goodhue County
Existing Park Acreage:	265 Acres

Proposed Activities with this Application:

Acres to be purchased:	None
Facilities to be developed or redeveloped:	
<p>Proposed Phase II improvements to Memorial Park include:</p> <ul style="list-style-type: none"> * Picnic shelter and restroom enclosures at three locations * ADA accessible trail at the Lower Quarry with scenic vistas of the Mississippi River Valley * Safety improvements to the existing park access road (replace missing road guard bollards) * Renovation of historic pump station to provide maintenance equipment for community volunteers * Safety improvements (railings, etc.) in the Lower Quarry * Reconstruction of the Bush Street steps and trail for hiking access from south-side neighborhoods * Additional kiosks structures and informational panels for 13 park kiosks * Structural improvements to the existing disc golf course, mountain biking trails, hiking trails, and cross country skiing trails * Cross country ski grooming equipment storage * Bike/storage lockers at Mountain Biking Trail Head * Development of new geocaching course * Restoration of historic picnicking areas 	

Financial Information: Please add the information below for each program you intend to apply for. "Match" is the required minimum percent of the total project cost that must be contributed by the applicant.

Program Name	Grant Request	Match	Total Project Cost
Park Legacy Program (No match required. however additional consideration shall be given to applicants who provide a non-state cash match).	\$ 329,660	\$ 110,500	\$ 440,160

Regional Park Program (40% nonstate match required. Match can include cash or the value of materials, labor and equipment usage by the local sponsor or by donations or any combination thereof.)	\$	\$	\$
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----	----	----

ITEM 2 - REGIONAL SIGNIFICANCE

Park of Regional Significance Criteria

To be eligible for this grant, the project must demonstrate that it is of regional or statewide significance. Describe how your project meets each of the identified criteria listed below. At a minimum, parks must meet the first two criteria described below and at least one of the criteria listed in 3-5.

1. Natural Resource Based Settings and Range of Activities Offered: The park should provide a natural setting and offer outdoor recreation facilities and activities that are primarily natural resource based. Examples include camping, picnicking, hiking, swimming, boating, canoeing, fishing, and nature study. A related measure is the range of these activities accommodated within the park (e.g., a park with a beach, campground and boat launch facilities is more likely to attract a regional clientele than a park with only one of these facilities).

Memorial Park is a 265-acre park located on the scenic bluff historically known as Sorin's Bluff that rises up in the center of Red Wing, Minnesota. It is larger than Barn Bluff, the 48-acre city park that is a National Register Landmark located immediately to the north of Sorin's Bluff adjacent to downtown Red Wing. Sorin's Bluff is surrounded primarily by late nineteenth-century and early twentieth-century residential development at the base of the bluff. In addition, state-owned property housing the Correctional Facility at Red Wing is an adjacent property that includes part of the bluff and the city-owned Mississippi National Golf Links is located to the south of the bluff. The bluff rises up more than 200 feet above the landscape providing scenic, panoramic views of the Mississippi River Valley, Historic Downtown Red Wing, historic residential neighborhoods, and the surrounding river bluffs. Natural plant communities cover much of the park including Oak Forest (SE) Mesic Subtype, Oak Woodland Brush land (SE), and Dry Prairie (SE) Bedrock Bluff Subtype.

Memorial Park is an excellent example of a significant regional park with natural resource amenities that offer recreational facilities and activities. The park currently has 8.68 miles of hiking trails; 12.13 miles of mountain biking trails; 4.81 miles of cross country ski trails (additionally, the complex that includes Memorial Park and the adjoining Mississippi National Golf Links totals 7.13 miles of groomed cross country ski trails); a nine-hole disc golf course; two geocaching locations; picnic areas; and a number of scenic overlooks that provide breathtaking views of the river valley.

An amazing number of groups and organizations use Memorial Park for their programming that encompasses natural resource based activities for youth and adults, including the following: Red Wing Community Recreation (Hiking the Trails programming with children ages 8 to 12); YMCA (Hiking Clubs with Seniors, Family Event Days); Red Wing Environmental Learning Center (Orienteering, Geocaching, Hiking, Cross-Country Ski courses); Red Wing Arts Association (Plein Air Art Festival); Boy Scouts (Eagle Scout projects, field days, hiking and biking outings); Y-Pals Mentoring Program (Special Event days); Red Wing High School Cross Country Running Team (weekly practices); and Audubon of Minnesota (bird watching), and more. The improvements proposed with this project will support the existing activities by restoring historic facilities, replacing broken picnic tables and other furnishings, providing support facilities such as restrooms and storage for volunteer organizations' maintenance equipment, enhancing park use with informational kiosk maps and interpretive panels, and completing major trail repair and improvements.

2. Use: Evidence that the park serves at least a regional clientele (multiple communities). Other related factors may include evidence that the facility currently or potentially may draw tourists and generate economic impact from outside the local area.

In 2012 the City of Red Wing and Live Healthy Red Wing, a community coalition working on active living initiatives, teamed up to complete park visitor counts. Volunteers with Live Healthy Red Wing placed sign-in sheets at six different access points in the park from September 1 to September 16, 2012. Some points were mostly driven to via Skyline Drive; others points people hiked or biked to. Some locations had both types of access. The sheets were collected periodically and replacement sheets were placed.

During that 16-day period, a total of 3,054 individuals signed in representing 18 states including Minnesota, Wisconsin, Iowa, Missouri, South Dakota, North Dakota, Indiana, Illinois, New York, Montana, Washington, Florida, Nebraska, Alaska, Kentucky, California, Georgia, and Colorado. Individuals also signed in from nine countries including the U.S., Sweden, Denmark, Belgium, Japan, Canada, Switzerland, Great Britain, and Cuba.

Approximately $\frac{3}{4}$ of the individuals who signed in (2,201) were from out of town. It should be noted that people from out of town were more likely to sign, and it is difficult to estimate how many visitors did not sign. During relatively the same time period, (September 6 – September 20, 2012) the City also completed a count of automobile trips into Memorial Park from Skyline Drive. This count indicated approximately 200 automobiles per day, resulting in approximately 3,200 vehicle trips over a 16-day period.

A conservative estimate of two passengers per vehicle results in approximately 6,400 visitors to the park over a 16-day period by automobile. It appears visitors from outside Red Wing may make up between 20 to 30 percent of park use. Below are visitor counts and locations.

Lower Quarry:

259

Primary access to mountain bike trails, hiking trails, scenic overlook

Twin Cities, Farmington, Minneapolis, Madison, Hastings, Bloomington, St. Paul, Avery WI, Woodbury, Little Falls, Wadena, Woodbury, Goodhue, Chaska, Ellsworth, Brooklyn Park, Zumbrota, Virginia, St. Simmons Island, GA, McGregor MN, Waseca, Stillwater

Prairie Access

344

Primary access to hiking trails

Rochester, Minneapolis, Cottage Grove, Eagan, Duluth, Northfield.

Main Upper Quarry

441

Primary Access to hiking trails, rock climbs, scenic overlooks

Wisconsin, Minneapolis, Fond du Lac WI, Minneapolis., White Bear Lake, Welch, Rochester, Hager City, Vermillion, Lakeville, Belview, Chippewa Falls, Bloomington, Rockford MN, Eagan, Hudson, Eagan, Burnsville, Bloomington, Des Moines IA, Ramsey, Seattle, England, Eagan, Coon Rapids, Wabasha, Bloomington, Burnsville, Sidney, MT, Grand Portage, Worthington, Iowa City, IA, Rice Lake, Arkansaw, WI, New Trier, Prescott, Ramsey, Ashby, Oak Grove, Brooklyn Park, Eagan, Corcoran, Poplar Bluff MO

Cow Path

225

Neighborhood Hiking Access Point

Fargo, ND, Osceola, WI, St. Cloud, Litchfield, Brooklyn Center, Seattle WA (the rest local)

Golf Course Trail Head

72

Primary Access in the summer for hikers and mountain bikers; winter access for cross country skiing

Dog walkers, hikers, runners – almost all local

Main Scenic Overlook

1,713

Primary access to the Main Scenic Overlook, Picnic Grounds, Disk Golf

Twin Cities, Rochester, Hastings, Ellsworth, Stewart, Lakeville, Belview, Twin Cities, Afton, Shoreview, Wilson WI, Bloomington, Vermillion, Maiden Rock, Minneapolis., Orchard IA, Buffalo, Eagan, Welch, Austin, Hinckley, Sweden, St. Cloud, Walker, Menasha WI, Kent WA, Franklin WI, Waconia, Burnsville, Edina, New Prague, Minnetonka, Wisconsin, St. Paul, Empire Township, Denmark, Farmington, St. Louis Park, Blaine, Centerville, Forsyth MT, Stillwater, Owatonna, Carroll IA, Belgium, Excelsior, River Falls, Forest Lake, Big Lake, Sioux Falls SD, Lake Zurich IL, St. Anthony, Maple Grove, Independence IA, Brodhead WI, Dodgeville WI, Machesney Park IL, Steven Point WI, Plymouth, Prior Lake, Knoxville IA, Des Moines IA, Worthington, Macon MO, Mankato, Fairmont, Kamrar IA, Arden Hills, Coon Rapids, Janesville IA, Chaska, Menomonie, Rockford IL, Aberdeen SD, Faribault, Carmel IN, Elk River, St. Michael, Plum City, River Falls WI, New Richmond, Kioksville MO, Marble Rock IA, Bergers ND, Charles City IA, Cannon Falls, Oshkosh WI, Hibbing, Okabewa MN, Southwest MO, South St. Paul, Larchwood IA

Antigo WI, Crystal Lake IL, Davenport IA, Woodbury, Rochester, Wisconsin, Alaska, Prairie Island, Iowa, Anoka MN, Tampa, FL, Tokoyo, Japan, Big Lake, MN, Granite Falls, SD, Cannon Falls, Huntley, IL, Vernon Hills, Faribault and Chisago City, Grand Island, NE, Farmington, Byron, Richfield, Winnipeg, Manitoba, Rochester, Maiden Rock, Washington

Minneapolis, St. Paul, Muncie IN, Fisherville KY, Lake Elmo, Janesville WI, Sierra Switzerland, Lakeville, Jacksonville FL, Amery WI, Columbia Falls MT, Cannon Falls, Zumbrota, Inver Grove Heights, Grand Rapids, Yorkville IL, San Anselmo CA, Elkton SD, Anoka, Star Prairie WI, Crystal, Hager City, Unionville MO, Coon Rapids, Barter, Nicollet, Longville, Union, WA, Eden Prairie, Richmond, Monticello, Farmington, Ellsworth, Byran, Woodbury, Rochester, Nebraska, Shakopee, Lakeville, Chaska, Burnsville, Goodhue, Mondovi WI, Clear Lake WI, Owatonna, Brooklyn Center, Champlin, Prior Lake, Buffalo, Circle Pines, Austin, Cromwell

St. Louis Park, Longview WA, Inver Grove Heights, Maplewood, Albert Lea, Minneapolis. Chanhassen, Winona, Northfield, St. Paul, Waterloo IA, Nelson WI, Havana, Cuba, Little Canada, Forest Lake, Woodbury, White Bear Lake, Cottage Grove, Hastings, Conifer, CO, Endicott, NY, Seattle, WA,

3. Size: The park should be significant in size. In southern Minnesota, a park of 100 acres

is significant. In northern Minnesota, the acreage is generally larger. There are exceptions to this criteria based on use characteristics, special features, and other variables.

Memorial Park is a park of substantial size—265 acres—located in the heart of Red Wing, Minnesota. It has a number of facilities that draws recreational and sightseeing visitors from its surrounding neighborhoods, the entire Red Wing community, Red Wing’s main regional drawing area of Goodhue County and Pierce County, Wisconsin, and from areas outside of Red Wing. The park is large enough to have multiple types of activities including picnicking, sightseeing, hiking, mountain biking, cross country skiing, disk golfing, snow shoeing, geocaching, and bird watching that are attractive to local residents and visitors from outside Red Wing. Memorial Park has been referred to as a community park in the middle of Red Wing that acts more like a State Park.

4. Special Features: Unique or unusual landscape features, historically significant sites, or parks containing characteristics of regional or statewide significance.

Memorial Park is not only a large municipal park but also has a number of extremely unique landscape and historic features.

a) Geology:

The top of Sorin’s Bluff used to be the floor of a shallow inland sea more than a half billion years ago. When the last glaciers receded around 10,000 years ago, raging glacial melt waters raced down through southeastern Minnesota carving out the Mississippi River Valley. Sorin’s Bluff and neighboring Barn Bluff withstood most of the powerful erosion and became islands in the river. Today the bluffs stand as beacons of history standing over Red Wing.

b) Scenic Quality:

Residents and visitors can access the park from either Skyline Drive (the main park entrance) or from one of the neighborhood access trails. The drives and hikes all involve negotiating a two hundred foot climb from the foot of the bluff to the summit, and most of the park improvements are located near or at the top of the bluff. Visitors can enjoy unique, panoramic views of the Mississippi River Valley, historic neighborhoods, and Red Wing’s commercial districts from numerous overlooks at several vantage points—accessed either by automobile or by foot from hiking, ski, or mountain bike trails.

c) Historic Quarries and Background:

From 1870 to 1908, Red Wing led the country’s lime and limestone industries and earned the nickname “Minnesota’s Lime Center,” in large part due to Sorin’s Bluff. According to the *Saturday Evening Spectator* in 1888, the lime and limestone from Sorin’s Bluff and Barn Bluff “could not be equaled . . . known everywhere throughout the Northwest because of their great superiority over all others.” Rock from Sorin’s Bluff and other local quarries constructed regional icons such as the Stone Arch Bridge in Minneapolis, buildings and churches throughout Red Wing, and thousands of home foundations that line local streets. Residents also made money from a byproduct of the rock: a chalky, caustic powder called lime. Though lime had multiple applications in life, the majority that came from Sorin’s Bluff and other local quarries were used in farming and construction.

In the 1870s quarrymen first built small “pot kilns” but soon improved the process with taller, cone-shaped “perpetual kilns” that burned 24 hours a day. Small tracks with railcars were built

along the sides of Sorin's Bluff to carry stone from the quarries to the kilns. Laborers then hauled limestone into the kilns from above and withdrew lime from the bottom without putting out the fires.

By 1879, Red Wing's four lime companies operated roughly 12 kilns on Sorin's and Barn bluffs, creating 500 barrels of quicklime daily. But the people of Red Wing grew weary of quarrying with its noise and safety concerns, so in the spring of 1907, spurred to action by the editor of the *Daily Republican*, Jens Grondahl, citizens decided to rally. A year later, contractors ended their quarrying in May of 1908.

With the industry already declining and the great controversy that had roiled, the lime and limestone industries in Red Wing quickly died.

d) Historic Park Background:

In the early 1900s, the local Women's Community Association and their tireless president, Henrietta Pratt Taber, worked diligently to raise money for local causes. In 1923 they had accumulated \$2,500 for a new Central Park band shell when they decided to change plans and donate their funds to the newly formed Goodhue County Soldiers' Memorial Association, whose main charge was to find a place to honor the area's soldiers. The two groups eventually raised \$6,000, but they still didn't have a memorial location.

Then, in 1927, William Lawther, one of Red Wing's former wealthy citizens who had moved to Dubuque, Iowa, donated \$10,000 to purchase land for the memorial shortly before he died. In turn, the Memorial Association purchased 99 acres of Sorin's Bluff for \$5,000, built a road to the summit, and used the rest of the funds, as directed by Lawther, for a park and "a grand gateway" as an entrance. That gateway of St. Cloud granite still stands. Local newspapers also called upon citizens to register the names of fallen heroes so a tree could be planted in the park in their honor.

The *Goodhue County Tribune* reported that plans were for "landscaping of the summit in such a way as to provide for children's playgrounds and for fields for various athletic sports." In his ceremony address, Dr. M.W. Smith, President of the Goodhue County Soldiers' Memorial Association, said the park was given to the community for two reasons. The first, "... to commemorate the valor and sacrifices of those who ventured all for the sake of their country; the second, for greater opportunities for outdoor recreation, not only for our children but for ourselves as well."

Dedication ceremonies on Sunday, September 19, 1929, began with a parade along East Seventh Street filled with marching bands and veterans' groups, including soldiers from the Spanish-American War. Congressman W.I. Nolan said, "It is proper and fitting that such a monument should not be one which will perish under the ravages of time. Bronze or stone may crumble, but this everlasting hill will stand here for all ages to come...."

In the early 1930s residents turned the former quarry areas, now known as the Upper and Lower Quarries, into picnic areas. Native limestone stairways and paths were added, along with birch

tree beds lined with limestone, and stone tables and furnishings.

e) Historic Ski Jumping Importance:

Red Wing lays claim to being the birth place of ski jumping in the U.S. and three of the earliest organized ski jumps were located on different sides of Sorin's Bluff. The informational kiosks noted in this application would provide an opportunity to interpret the history of ski jumping in Red Wing and the U.S.

5. Scarcity of Recreational Resources: The Park provides public natural resource based recreational opportunities that are not otherwise available within a reasonable distance. Examples include water-based activities, such as swimming, fishing and boating; interpretive nature trails; public campgrounds; etc.

Because Memorial Park is accessible by car, it provides unique and often rare recreational opportunities and facilities for people of all ages and abilities, including those with physical disabilities. Scenic views from historic picnic grounds, gathering spaces with limestone benches and fire rings, flat wooded and prairie trails, and activities such as open-field dog walking, cave exploring, disc golf, and orienteering provide inter-generational opportunities not often found within a 60-mile radius. The park also offers one-of-a-kind experiences to its neighboring communities, roughly 22% of Red Wing's population, by providing trail access within a 15-minute walk of residents' homes. In addition, Memorial Park sits next to the nationally known Barn Bluff, traveled to by rock climbers around the region. Together the two parks provide residents and visitors with a recreational and cultural experience not found elsewhere in Southeastern Minnesota.

ITEM 3 - PROJECT NARRATIVE

Describe what recreation facilities will be developed or rehabilitated and any lands that will be acquired. Limit to one page.

Project Description:

After being an anchor of the community for more than 100 years, Memorial Park started to decline in the early 1970s and has grown tired and dilapidated. Thankfully, in the last year the community has sparked a revitalization of the park.

Live Healthy Red Wing has been working to bring park users and surrounding neighborhood residents together to make improvements to the park's trail systems. And the Red Wing Area Fund, a non-profit community-based organization committed to enhancing the quality of life in Red Wing, spearheaded a planning process with the University of Minnesota Center for Changing Landscapes to develop plans for the historic quarry areas.

In 2012, the Red Wing Area Fund initiated and funded Phase I improvements to restore historic elements and provide for safety improvements in the Upper Quarry and Lower Quarry. The two organizations now wish to partner with the City of Red Wing and other community organizations and volunteers to complete Phase II park improvements.

The City is the grant applicant and will coordinate the project with a number of volunteer community organizations. Phase II improvements include:

- * Picnic shelter and restroom enclosures at three locations
- * ADA accessible trail at the Lower Quarry with scenic vistas of the Mississippi River Valley
- * Safety improvements to the existing park access road
- * Renovation of historic pump station to provide maintenance equipment for volunteers
- * Safety improvements (railings, etc.) in the Lower Quarry
- * Reconstruction of the Bush Street steps and trail for walking access from south-side neighborhoods
- * Additional kiosks and informational panels for 13 park kiosks
- * Structural improvements to existing disc golf course, mountain bike trails, hiking trails, and cross country ski trails
- * Cross country ski grooming equipment storage
- * Bike/storage lockers
- * Signs for new geocaching course
- * Additional picnicking areas
- * No land acquisition is part of the grant application

ITEM 4 - COST BREAKDOWN

Development (see Program Manual for eligibility)

Facility (e.g. picnic area, campground)	Description (linear feet, dimension of structures, number of components, etc.)	Estimated Cost	Expected Completion Date
Map 6.0 Other Park Improvements New Kiosk Structures	<u>(4) New Steel Kiosk Structures installed @ \$1,000 ea - \$4,000</u>	<u>\$4,000</u>	<u>July 2014</u>
Map 6.0 Other Park Improvements Interpretive Panels for Information Kiosks	<u>(48) 3' x 5' Maps and Interpretive Panels installed on existing and new kiosk structures</u> a. <u>Panels with shipping @ \$800 - \$38,400</u> b. <u>Each Kiosk Graphic Development for Digital Layout @ \$200 ea - \$9,600</u>	<u>\$48,000</u>	<u>July 2014</u>
Map 6.0 Other Park Improvements Replace Missing and Deteriorated Road Guard Bollards	<u>1,440 of roadway guard bollards every 12'</u> a. <u>(120) bollards @ \$110 ea - \$13,200</u> b. <u>Installation - \$1,200</u> c. <u>Contingency 10% - \$1,600</u>	<u>\$16,000</u>	<u>July 2014</u>
Map 6.0 Other Park Improvements Mountain Bike and Cross Country Ski Trail Widening and Improvements	<u>Repair and widening to approximately 3.5 miles of mountain biking/cross country ski trails</u> a. <u>6 days of equipment grading @ \$1,000 per day - \$6,000</u> b. <u>10 days of correctional facility work crew at \$450 per day - \$4,500</u> c. <u>55 yds of top soil @ \$24 - \$1,320</u> d. <u>Contingency 10% - \$1,100</u>	<u>\$12,920</u>	<u>July 2014</u>
6-1 Upper Quarry Picnic Pavilion	<u>24' x 28' Roofed Picnic Pavilion Structure with Steel Truss Roof System, four steel posts, limestone base</u> a. <u>Steel Truss Roof System - \$34,800</u> b. <u>Site Work - \$1,000</u> c. <u>Concrete Slab - \$3,360</u> d. <u>Footings, Piers, Limestone - 2,400</u> e. <u>Contingency 10% - \$4,100</u>	<u>\$45,660</u>	<u>July 2014</u>
6-1 Upper Quarry	<u>21' x 12' Roofed Restroom Enclosure</u>	<u>\$23,910</u>	<u>July 2014</u>

Restroom Enclosure	<u>with Steel Truss Roof System, four steel posts, limestone base</u> a. <u>Steel Truss Roof System - \$17,400</u> b. <u>Site Work - \$750</u> c. <u>Concrete Slab - \$1,260</u> d. <u>Footings, Piers, Limestone - \$2,400</u> e. <u>Contingency 10% - \$2,100</u>		
6-1 Upper Quarry Overflow Parking	<u>200 x 8' Improved roadside shoulder for additional off-street parking</u> a. <u>Grading - \$6,500</u> b. <u>Aggregate - \$1,500</u>	<u>\$8,000</u>	<u>July 2014</u>
6-1 Upper Quarry Plantings, Furnishings and Signage	<u>Upper Quarry Site Plan Plantings, Furnishings, and Signage</u> a. <u>(37) Birch Trees @ \$250 ea - \$9,250</u> b. <u>Other Ground Cover - \$2,500</u> c. <u>(5) Grills Installed @ 450 - \$2,250</u> d. <u>(2) 46 Gallon Waste/Recycling Steel Containers @ \$800 ea - \$1,600</u> e. <u>91) Heavy Duty 9 Loop Bike Rack - \$1,800</u> f. <u>Miscellaneous Signage - \$250</u>	<u>\$17,650</u>	<u>July 2014</u>
6-2 Lower Quarry Restroom Enclosure	<u>21' x 12' Roofed Restroom Enclosure with Steel Truss Roof System, four steel posts, limestone base</u> g. <u>Steel Truss Roof System - \$17,400</u> h. <u>Site Work - \$750</u> i. <u>Concrete Slab - \$1,260</u> j. <u>Footings, Piers, Limestone - \$2,400</u> <u>Contingency 10% - \$2,100</u>	<u>\$23,910</u>	<u>July 2014</u>
6-2 Lower Quarry Accessible Scenic Trail	<u>865' Compacted Crushed Rock Accessible Trail, 5' wide</u> a. <u>110 ton of aggregate surface class 5 modified w/ 1/2" minus material @</u>	<u>\$13,510</u>	<u>July 2014</u>

	<u>\$23 per ton - \$2,530</u> b. <u>(180) 4" x 6" x 10' edging timber @ \$21 ea - \$3,780</u> c. <u>Installation - \$6,000</u> d. <u>Contingency 10% - \$1,200</u>		
6-2 Lower Quarry Safety Railings along Trail and Overlooks	<u>704' of safety railing @ \$35 per foot installed - \$24,640</u>	<u>\$24,640</u>	<u>July 2014</u>
6-2 Lower Quarry Plantings, Furnishings, and Signage	<u>Upper Quarry Site Plan Plantings, Furnishings, and Signage</u> e. <u>(36) Birch Trees @ \$250 ea - \$9,000</u> f. <u>Ground Cover Plantings - \$2,500</u> g. <u>(5) Grills Installed @ 450 - \$2,250</u> h. <u>(2) 46 Gallon Waste/Recycling Steel Containers @ \$800 ea - \$1,600</u> i. <u>Heavy Duty 9 Loop Bike Rack - \$1,800</u> <u>Miscellaneous Signage - \$250</u>	<u>\$17,400</u>	<u>July 2014</u>
6-2 Lower Quarry Bicycle Storage Lockers	<u>(4) Vertical Bike Lockers, 72" x 30" x 54" and security installation @ \$2,000 - \$8,000</u>	<u>\$8,000</u>	<u>July 2014</u>
6-3 Main Scenic Overlook Picnic Tables	<u>(6) 4' x 8' ADA accessible solid limestone picnic tables with solid limestone pedestal, table top and benches</u> a. <u>Material @ \$1,600 ea - \$9,600</u> b. <u>Installation and setting @ \$1,400 ea - \$8,400</u>	<u>\$18,000</u>	<u>July 2014</u>
6-3 Main Scenic Overlook Restroom Enclosure	<u>21' x 12' Roofed Restroom Enclosure with Steel Truss Roof System, four steel posts, limestone base</u> c. <u>Steel Truss Roof System - \$17,400</u> d. <u>Site Work - \$750</u> e. <u>Concrete Slab - \$1,260</u> f. <u>Footings, Piers, Limestone - \$2,400</u>	<u>\$23,910</u>	<u>July 2014</u>

	<u>Contingency 10% - \$2,100</u>		
6-3 Main Scenic Overlook Remove Deteriorated Restroom Building	<u>Building Removal</u> a. <u>Demolition - \$2,000</u> b. <u>Depose of debris - \$1,500</u> c. <u>Backfill and seed- \$1,200</u>	<u>\$4,700</u>	<u>July 2014</u>
6-3 Main Scenic Overlook Disc Golf Entry Improvement	<u>Course Map and Entry Information Station @\$1,000</u>	<u>\$1,000</u>	<u>July 2014</u>
6-3 Main Scenic Overlook Geocache Course Project	<u>Course Information Station @ \$1,000</u>		<u>July 2014</u>
6-4 Cow Path Access Restore Historic Pump House Building	<u>Restore Historic Pump Station Building 12' x 10' building including new secure door, window, and repair limestone façade</u> a. <u>Door and Window replacement - \$2,200</u> b. <u>Limestone Veneer Restoration - \$2,800</u>	<u>\$5,000</u>	<u>July 2014</u>
6-5 Bush Street Access Entry and Stairway	<u>Limestone Stairway and Landing Improvement to provide safer access to the Bush Street Neighborhood</u> a. <u>90' of Limestone Stairway Restored, (72) limestone steps 6" x 18" x 4' @\$260 ea - \$18,720</u> b. <u>Limestone retaining material - \$9,200</u> c. <u>90' of railing installed @\$35 - \$3,150</u> d. <u>Installation \$22,500</u> e. <u>Concrete pad at entrance area 220 S.F. @ \$5 per S.F. - \$1,100</u> f. <u>Site Preparation and Grading - \$2,400</u> g. <u>Aggregate Base - \$2,200</u> h. <u>Contingency (10%) - \$5,900</u>	<u>\$65,170</u>	<u>July 2014</u>
6-6 Golf Course Access Cross Country Ski Equipment Storage	<u>26' x 26' Cross Country Ski Grooming Equipment Storage Building with 2 garage doors and entry door</u> a. <u>Site Work - \$1,500</u>	<u>\$18,780</u>	<u>July 2014</u>

	b. <u>Concrete Slab - \$3,380</u> c. <u>Building Material - \$6,200</u> d. <u>Installation - \$6,000</u> e. <u>Contingency 10% - \$1,700</u>		
Other	<u>Construction Management Engineering @ 10% of total project cost of \$400,160 - \$40,000</u>	<u>\$40,000</u>	
Total		\$440,160	

Land Acquisition

Parcel Identification Number or location	Acres	Appraised Value	Expected Acquisition Date
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Total	N/A	N/A	<u>N/A</u>

ITEM 5 - LOCATION MAP

In order to provide background to the location of Memorial Park and the existing trail features, five locations maps are attached:

- 5.0 Location Map – Overview Map Showing General Location in Red Wing
- 5.1 Memorial Bluff Hiking Trails
- 5.2 Memorial Bluff Mountain Biking Trails
- 5.3 Memorial Bluff Ski Trails
- 5.4 Memorial Park/Mississippi National Links Winter Cross Country Ski Trail Complex

ITEM 6 - RECREATIONAL SITE PLAN

Memorial Park is a large 265 acre park and the proposed Phase II project involves several different sections of the park. Attached are a number of site maps that show the various elements of the park and grant proposal

6.0 Recreational Site Map – General Overview Map of the Park that shows the location of the other six recreation site maps (labeled 6.1, 6.2, 6.3, 6.4, 6.5, and 6.6), and the location of certain park improvements not included in the other recreational site maps including: Roadway Safety Guard Bollards; Upper Quarry Overflow Parking Area; two kiosk locations not shown in the other recreation site maps; and the location of Mountain Biking/Cross Country Ski Trail Widening and Improvements.

6.1 Upper Quarry Plan completed by the Center for Changing Landscapes of the University of Minnesota

6.2 Lower Quarry Plan completed by the Center for Changing Landscapes of the University of Minnesota

6.3 Main Scenic Overlook Recreational Site Plan

6.4 Cow Path Access Recreational Site Plan

6.5 Bush Street Access Recreational Site Plan

6.6 Golf Course Access Recreational Site Plan

ITEM 7 - PROJECT SITE EVALUATION

Project Site Evaluation:

Endangered Species:

Based upon early natural resource inventories completed for the City of Red Wing, there do not appear to be any endangered or threatened plant species located in the Memorial Park area. One endangered animal has been identified on the Dry Prairie south facing slope of the park property.

Wetlands:

The National Wetlands Inventory produced by the U.S. Fish and Wildlife Service indicates that there are no wetlands located on the Memorial Park property.

PROJECT SITE EVALUATION - FORMAT

I. Description of the Environment and the Environmental Impact of the Proposed Project

A. Present Land Use: Describe the present land use of the proposed project site. Is the property to be acquired a high priority inholding or addition crucial to the use of, ecological integrity of, or access to an existing natural or scenic area? Address any other impacts the proposed project may have on the present land use of the project site or adjacent lands.

No property acquisition is proposed with the proposed grant project. All of the proposed developments are located in the area of existing park improvements and trail developments. The access trail improvements shown on Recreational Site Maps 6.4, 6.5, and 6.6 are improvements to existing trail accesses into Memorial Park. Most of the surrounding land uses as shown on Location Map 5.0 and Recreational Site Plan Map 6.0 are residential uses around the foot of the bluff. With the exception of the access trails, most of the park improvements are located near the top of the bluff, with a wooded buffer and topographical elevation difference of nearly 200 feet. Park activities are limited to 8 AM to 10:30 PM and so noisy activities do not occur that would cause concerns for surrounding residences.

B. Environmental Intrusions: Describe all man-made developments on, above, below or adjacent to the proposed project site, including buildings, utility poles and lines, roads, driveways, pipelines, sewer and water lines, fences, ditches, bridges, billboards, railroad tracks, and related structures or facilities. Explain how these intrusions, if any, might affect the use, protection, and enjoyment of the proposed project site and what measures will be taken to minimize any adverse impacts. All existing and future overhead power lines serving the park must be placed underground. The cost of placing the power lines underground can be included in this application.

The majority of the man-made improvements in Memorial Park are associated with park and recreational uses. This includes the main park access roadway (Skyline Drive) improvements in the Upper and Lower Quarries, improvements located at the Main Scenic Overlook, and the extensive trail system. Some of the improvements are historic structures that pre-date the development of the park and have historic interest. Some of these include: the historic pump station located at the entrance of the Cow Path neighborhood access trail (see Recreational Site Map 6.4); a limestone water tower that was part of an early City of Red Wing public water system (See Recreational Site Map 6.3); a historic lime kiln located below the Upper Quarry; and a number of other limestone water management improvements and associated quarry remnants.

There are two primary man-made intrusions in Memorial Park. Electric Power Transmission Lines bisect the park from north to south and east to west. The North/South Transmission Line is very large and passes through the Upper Quarry. Upper Quarry Park improvements have been designed to work around a large transmission post in the Upper Quarry. The second man-made intrusion is the Mississippi National Golf Links development on the southeastern end of Memorial Park. A summer golf driving range is wedged into the side of the bluff and a short section of the Cross Country Ski trail uses the asphalt surfaced cart path that provides golf cart access from the clubhouse to the driving range. The asphalt surface is not ideal for the ski trail but the area is heavily wooded and maintains its snow base.

C. Fish and Wildlife: Indicate whether the proposed project site is on or adjacent to, a national,

state or local wildlife management area, park or natural area. Describe the known fish and wildlife species common to the project site and any known species that are listed as endangered, threatened or of special concern. Describe the likely impacts of the proposed project on habitat, population levels, and any other factors related to the fish and wildlife resources.

Memorial Park is a municipally owned park but is not located adjacent to any national or state wildlife management area. Proposed park improvements are limited to existing park development and trails and should have extremely limited impact on wildlife resources. An endangered animal is known to exist on the south facing Dry Prairie bluff side and the City will work to avoid any project impact.

D. Vegetation: Describe the major plant species and communities common to the project site and any known species that are listed as endangered, threatened or of special concern. Describe the distribution of major plant communities or types on the site. Indicate the extent of cutting, clearing, removal or other disturbance that will result from the proposed project, as well as any restoration and/or protection activities planned as part of the project.

According to the Goodhue County Biological Survey completed in 1990 and 1992, Memorial Park has large sections of Natural Communities vegetative cover. The largest land cover is the northerly portions of the bluff, identified as Oak Forest – Music Subtype. This is a dry-music forest on loess, glacial till, outwash sands or alluvium; canopy most often dominated by one or more oak species, usually bur oak, northern pin oak, and white oak. Basswood, black cherry, quaking aspen, and paper birch are also common canopy associates and are sometimes codominant with oaks.

There are smaller segments of Natural Communities identified as Oak Woodland Brushland and Dry Prairie – bedrock bluff subtype. Oak Woodland Brushland is described as canopy cover 50 – 70%; dry to dry-mesic woodlands; on loess, bur oak, northern red oak, and northern pin oak; black oak, red elm, paper birch, and red cedar are common canopy associates; pronounced shrub layer; scattered prairie openings.

Dry Prairie – Bedrock bluff subtype is located on the south facing slopes of the bluff and is described as dry prairie on thin loess over bedrock on steep south to west facing fluffs; rock outcrops frequent; common species include little bluestem, prairie dropseed, plains muhly, prairie violet, and lead-plant.

No endangered plants were identified in the survey.

Cross Country and Mountain Biking Trails are generally already 10 to 12 feet wide and with the trail improvements the City does anticipate some tree removal and trimming. A tree inventory will be completed prior to the work and a restoration plan developed.

E. Water Resources: Describe any existing wetland areas on or adjacent to the proposed project site. Indicate any likely physical disturbances of these wetlands, including (but not limited to) draining and filling that would result from the proposed project. Describe any other potential impacts to wetlands, such as water level fluctuations or water pollution that may result from the proposed project. Discuss possible alternatives that would avoid or minimize negative wetland impacts. Also describe any other water resources on or adjacent to the site, proposed uses of surface or groundwater, and any possible impacts on these resources, including depletion or pollution, resulting from the proposed project. Explain how the proposed project would help to

protect water quality on or adjacent to the site.

There are no identified wetlands located within or adjacent to the park property and the proposed project will not impact on any identified wetlands. This is an upland bluff feature that does not have any rivers or streams. All bluff land ravines drain directly into the Mississippi River. Care will be taken to maintain a no-net increase in storm water flows into the surrounding ravines.

F. Geologic and Physiographic Features: Describe any interesting, unique or fragile geologic and/or physiographic features on the proposed project site and any likely impacts on these features that would result from the proposed project. Describe any proposed protection activities or measures to provide public education, interpretation and enjoyment of these resources.

Memorial Park is developed on Sorin's Bluff which is an interesting Mississippi River bluff feature. The south facing slopes are noteworthy for the dry bluff prairie land cover marked by rock outcroppings and thin loess over bedrock. The bluff is highly erodible and special caution must be taken in park development and trail development to minimize erosion. The City intends to devote some of the interpretive panels to describe the geological background to the Mississippi River valley and the glacial development of the land forms that are part of the scenic views in the park.

G. Air Quality/Noise: Describe any temporary or permanent air or noise pollution that will result from the development and use of the site and the impacts on adjacent land uses or landowners.

There will be some temporary noise created from construction projects in the park. There is a buffer and substantial elevation change that tends to mitigate this impact. No long term air quality or noise impacts are anticipated.

H. Transportation: Describe the various forms of transportation available to access the park facility (e.g. trails, roads, public transportation) Is there any transportation provided to the park for special events or programs?

Skyline Drive provides the only vehicle access to the park. It is constructed to provide access for cars and tour buses. Other hiking, mountain biking, and cross country ski trail accesses include the Cow Path Access Trail, Bush Street Access Trail, Club House Access Trail, and the Wilkinson Street Access Trail. All of these trails provide access to the park from the surrounding residential neighborhoods. Red Wing's dial-a-ride bus transportation can be used to provide access to the park.

II. Description of the Proposed and Future Management Activities

A. Land Management and Protection: Discuss the proposed size of the area and what impacts that may have on the ability to properly protect the site and its resources. Address the potential for acquiring control over adjacent land uses that might otherwise adversely affect the property. What long-term management measures will be employed on this property and adjacent lands to ensure that future generations will continue to enjoy the natural amenities (such as, restoration efforts, exotic species control, etc.). Discuss specific protection measures that either are in place or planned (such as zoning or other land development restrictions, etc.).

The City has managed Memorial Park for over 80 years. The City's current strategy is to build partnerships with user groups and citizens so that volunteers can take an active role in the maintenance and management of this large 265 acre park area. Invasive plant species (primarily buckthorn) is a serious issue and over the past two years, major efforts have been made with the help of Live Healthy Red Wing and other partner organizations to work to stem the tide. One action that the City would like to invest in is to develop a natural resource management plan for the park.

The City developed an Open Space Preservation Plan that was adopted by the City Council as an amendment to the City's Comprehensive Plan in 2008. The plan did identify privately owned properties that about the Memorial Park property. The top priority for acquisition in the future is an 8 acre parcel that is shown on Map 6.0 Recreational Site Map. This property is currently vacant and encompasses a portion of the Dry Prairie landscape.

B. Partnerships:

Describe any partnerships with organizations, communities, friends groups that help maintain, promote and/or support parks in your community.

The City is of the opinion that the development of partnerships with community organizations and friends groups is the key element to the future of Memorial Park. This park had been neglected over the period of several decades. Fortunately in the last three years the community has sparked revitalization. Live Healthy Red Wing, a community coalition working on active living initiatives, has been working to bring park users and surrounding neighborhood residents together to make improvements to the park's trail systems. Also, in 2011 the Red Wing Area Fund, a non-profit community-based organization committed to enhancing the quality of life in Red Wing, spearheaded a planning process with the University of Minnesota Center for Changing Landscapes to develop master plans for the historic quarry areas. The two historic quarries were originally developed as picnicking grounds with trail developments and scenic overlooks.

In 2012, the Red Wing Area Fund initiated and funded Phase I improvements to restore historic elements and provide for safety improvements in the Upper Quarry and Lower Quarry. The two organizations now wish to partner with the City of Red Wing and other community organizations and volunteers to complete Phase II park improvements.

A number of organizations and friends groups have come forward to support this Phase II project financially, with volunteer labor, and with their support. Their letters of commitment and support are provided in Attachment A. Below is a quick list of organizations that have stepped forward to provide cash and volunteer labor.

Cash Contributions to the Project:

Live Healthy Red Wing	\$ 2,000
Friends of the Bluffs	500
Aurora Ski Club	7,200
Red Wing Mountain Bike Club	2,000
Mayo Clinic Health System Red Wing	2,000
Red Wing Area Fund	96,800
Total Other Funding Sources	\$110,500

Volunteer Hours:

Friends of the Bluffs (Chap Achen, Jr.): 240 hours

Americore LEAP (Barb Gunderson): 208 hours

High School Earth Day (Chris Sheehan): 700 hours

Xcel Energy (Pam Gorman): 80 hours

Red Wing Shoe Company (Laurel Achen): 50 hours

Live Healthy Red Wing (Michelle Leise): 50 hours (this is less because usually we work with other groups)

Boy Scouts: 30 hours

High School Cross Country Team (Jesse Nelson): 40 hours

Rotary (Tom Feehan): 50 hours

RAMBO Red Wing Mountain Bike Organization (Andrew Petersen): 120 hours

Red Wing Shoe Company (Laurel Achen): 50 hours

Aurora Cross Country Ski Club (Jim Patterson): 40 hours

ITEM 8 – SUSTAINABLE AND RESILIENT INFRASTRUCTURE

1. Sustainable and resilient infrastructure.

Early in the Park Master Planning that took place in 2011, the community identified the need to move forward with improvements to the park that would create a sustainable and resilient park backbone. Objectives that were established included:

Memorial Park: Objectives

- Reduce or maintain current management needs
- Increase safety significantly
- Increase comfort and recreational use
- Build upon the park's existing historic remnants, precedents, and materials

Vandalism has been an issue with the park over the past decades, partially because there are various ways to access the park, and partially because it is so large and some sections are rather remote. The two quarry areas have provided some design direction in order to reduce or maintain current management needs. First, the park design is based on an industrial motif that uses steel in the structures and roofs, galvanized wire in the fencing, galvanized piping for safety railings, and solid limestone in the benches, picnic tables, stairways, and fire rings. These elements were used in Phase I improvements and are carried through in Phase II improvements.

In addition, the choice of material for parking areas and trails is directed by the notion that these elements should be kept as natural as possible. The design generally stays away from asphalt parking surfaces (except in the Lower Quarry where paving existed and portions were removed). Instead, crushed and compacted lime rock is used for staging areas and trails to reduce the need for expensive overlays in the future.

2. Energy efficient, easy to maintain and recycled/recyclable materials.

The park has been designed without outside energy requirements. There is no lighting in the park plan and all facilities are “off the grid.” In addition, the plan has re-used and repaired historic park elements to the greatest extent possible by repairing historic steps, retaining areas, and walkways.

3. Conservation of water use and the design of facilities to effectively manage storm water on site.

Landscaping incorporates native plants that reduce the need for watering and other maintenance. The natural design reduces the amount of hard surface areas and helps to reduce storm water management needs. The trail widening and maintenance project will be constructed using best management practices to reduce erosion and control storm water flows. The City will follow trail erosion management practices outlined in the DNR publication Trail Planning, Design, and Development Guidelines, 2006.

ITEM 9 – COMMUNITY INVOLVEMENT

1. What efforts were made to solicit input from members of the community that will be affected by this project? For example, public meeting(s), notification of adjoining property owners, etc.

The City and its partners made great efforts to involve the community and residents in the planning for this project. In addition to earlier planning efforts that will be discussed below, the Red Wing Advisory Planning Commission conducted a public discussion at a meeting held on September 18, 2012. This meeting was noticed in the local newspaper (*Republic Eagle*) and a notice was mailed to all property owners within 200 feet of the park boundaries in order to ensure all the surrounding neighbors were aware of the project and could comment.

Attachment A includes 29 letters of support showing the involvement of the community in the proposed project. Six of the organizations have also committed funding toward a cash match totaling \$110,500. Several of the supporting organizations also committed to volunteer nearly 1,600 hours of labor toward park improvements related to the proposed project.

2. What community planning process was used to show a need for this project and to define its scope?

In 2011, the Red Wing Area Fund offered to contract with the Center for Changing Landscapes of the University of Minnesota to begin developing plans for Memorial Park that would focus on the two historic quarry areas. Live Healthy Red Wing partnered with the Red Wing Area Fund to help to organize a public involvement process. Several meetings were held in 2011 and early 2012 with stakeholder groups that included park user organizations such as the mountain bike club, cross country ski club, the Red Wing Environmental Learning Center, Red Wing High School leaders, and many others. After initial analysis, a communitywide meeting was held to solicit feedback from residents. Prior to that meeting, Live Healthy Red Wing placed door knob meeting notices on every residential property surrounding the park. Nearly 70 people attended that meeting on January 24. The result of that meeting and subsequent planning meetings were the development of four major goals:

Memorial Park Goals

Restoration: Restore and enhance Memorial Park's current and historic recreational assets

Interpretation: Interpret Sorin's Bluff's natural environment, limestone quarrying and lime processing industries, and recreational use in Red Wing's history and culture

Connection: Connect Sorin's Bluff to surrounding neighborhoods to support increased non-motorized local access and Live Healthy Red Wing initiatives

Strengthening: Strengthen Red Wing's culture of civic engagement by creating restoration/enhancement projects that can be implemented and/or maintained by citizen groups and citizens

Phase I improvements to the park were initiated by the Red Wing Area Fund in 2012 based on the above four goals, always with an eye on improving safety. Phase II improvements are a natural progression of this extensive community sponsored process.

3. How do you expect this project to increase outdoor recreation participation?

The City expects that Phase II improvements will help draw increased participation due to the involvement of so many residents and local organizations. People of all ages, backgrounds, and abilities have volunteered their time, sweat, and energy toward this project. Specifically, Live Healthy Red Wing has worked with the following groups pledging to increase use of the park:

Programming:

- Community Recreation (Dave Borgen): Hiking the Trails with children ages 8 to 12
- YMCA (Mike Melstad): Hiking Clubs with Seniors, Family Event Days
- ELC (Jason Jech): Orienteering, Geocaching, Hiking, Cross-Country Ski courses
- Arts Association (Art Kenyon): Plein Art Festival
- Boy Scouts: Hiking courses and volunteer work days
- Y-Pals Mentoring Program (Katie Ramstad): Special Event days
- High School Cross Country Team: (Jesse Nelson): weekly practices

Park improvements will also drive additional visitors from outside of Red Wing as trail facilities become better known. We also expect the kiosk panels with interpretive panels to become a major draw, due to the high demand for historical tourism.

The additional trail access at Bush Street will provide a needed walk-in access point from the west side that currently is cut off from the park. Nearly 2,000 residents live within a half mile of this section of the bluff.

The project also allows the City to provide activities in Memorial Park that are of interest to younger adults, such as the development of a geocaching course and improvements to the disc golf course. In addition, the new Red Wing App will allow visitors with mobile-phone technology to learn more about Red Wing and access the information from the new kiosk panels.

ITEM 10 – AVAILABILITY FOR PUBLIC USE

Memorial Park is open to the public during normal park hours of 8:00 a.m. to 10:30 p.m. Arrangements can be made to extend the hours. There are a few group events in the park including an annual mountain bike race and occasional bluff runs and disc golf events. If these events require special facilities such as additional picnic tables or restrooms, the City of Red Wing arranges to provide those facilities and a fee is charged.

The cross country ski trails are groomed by the local Aurora Ski Club, which is reimbursed through annual grants made to the City by the State of Minnesota for trail grooming. This funding requires that skiers buy a State Ski Pass.

There are no other charges or fees, and all facilities are open to the public.

ITEM 11 - STATEMENT OF ACCESSIBILITY

The City will make every effort to provide accessibility to the park improvements in Memorial Park. The restroom and picnic shelter facilities in the Upper and Lower Quarry are located on the quarry floor. Five foot access approaches will be provided in all cases. Generally, the city intends to use a crushed and compacted limestone around and to these facilities to provide access from accessible parking spaces to the entrances to these facilities. The restroom proposed for the Main

Overlook Area will be access via a new access sidewalk to the facility. Accessible picnic areas in both the Upper and Lower Quarry will provide accessible access.

Many of the hiking, mountain biking, and cross country ski trail system in Memorial Park is not conducive to the development of accessible trail systems because of the steep bluff nature of the park. The City is making major efforts to make several scenic features of the park accessible including: the main scenic overlook; the northeast overlook in the Upper Quarry; and an especially designed ADA accessible trail in the Lower Quarry that will provide a nature walk to the scenic overlook at the north edge of the quarry. The city will pay special attention to technical provisions of Uniform Federal Accessibility Standards (UFAS and ADAAG and guidelines established by the United States Access Board. Provisions that will be followed include recommendations on surface, clear tread width, openings, protruding objects, tread obstacles, passing space, slope, resting intervals, edge protection, and signage.

ITEM 12 - PROJECTED OPERATION AND MAINTENANCE COSTS

Estimate the projected operations and maintenance costs for the proposed facility. In developing these estimates it is important to consider not only the routine costs (such as labor, materials, utility costs and equipment costs), but also periodic major repairs or preventive maintenance (such as seal coating or replacement of plumbing, lighting, aglime, turf, etc.).

Memorial Park is managed and maintained by the City of Red Wing Public Works Department with a great deal of help from organizations that provide volunteer labor to maintain various aspects of the park. Several organizations provide volunteer labor in the park at the current time. Red Wing Mountain Bike Organization (RAMBO) maintains and manages the mountain biking trails; Aurora Ski Club maintains and grooms the cross country ski trails; Live Healthy Red Wing organizes volunteer activities that include posting better maps and signs, eradicating invasive plant species, clearing and widening trails, and promoting the park. Red Wing High School FFA organizes volunteer work days for students, and the cross country running team volunteers time each year for trail maintenance. Friends of the Bluffs is a new non-profit organization committed to increasing the enjoyment, promotion, and stewardship of Red Wing's bluff parks, including Memorial Park, and will build an even wider volunteer base. Currently, the City assists on occasional projects that require larger equipment. The City does not anticipate additional operational or maintenance costs associated with the trail developments in the park.

- Much of the additional maintenance and operational costs that the City does anticipate will come from the development of the picnic pavilion, restroom enclosures, picnic tables, and interpretive kiosks and panels. Although the design of these structures has been completed with maintenance and vandal proofing in mind, the City does anticipate the need to address occasional vandalism and replace certain elements. Based on construction costs of these elements totaling nearly \$200,000 of the proposed budget, the City anticipates the need to budget approximately 5% annually to address vandalism and replacement: \$10,000.
- There are two portable restrooms in both quarry areas chained to trees. The project anticipates establishing a third location for two restrooms. Annual rental cost is estimated at \$660.

- The City uses student summer help for garbage collection and general maintenance. It is expected park improvements will generate more use and require an additional 10 hours per week with a crew of two people. A rough annual cost estimate of labor and equipment: \$5,400.
- Landscaping proposed for the two quarry areas will require initial watering and maintenance especially in the first year. An estimate of additional plant maintenance: \$1,200.
- Total annual costs are estimated at approximately \$17,260.

ITEM 13 - APPLICANT'S RESOLUTION

See Attached Resolution No. 6479 adopted by the Red Wing City Council on September 24, 2012.

ITEM 14 – PLANS

Building Plans

Attached are the following building plans:

- Lower Quarry Shelter, 8/30/12
- Upper Quarry Toilet Screen, 9/18/12, this same building will be used in the Lower Quarry, Upper Quarry, and the Main Scenic Overlook Area
- Cross Country Ski Grooming Equipment Storage Building

Trail Plans

Attached are trail plans for the following:

- Accessible ADA Trail in Lower Quarry
- Cross Country Ski/ Mountain Biking Trail
- Cross Country Ski Trail – Access to Equipment Building

Playground Plans

No Playground facilities are part of the proposed grant application.

ITEM 15 – ACQUISITION PROJECTS APPRAISAL(S)

No Acquisition is part of the proposed project.