

Ed Good Memorial Park Conceptual Master Plan



Prepared for the Town of Stanley by the Community Design Assistance Center at Virginia Tech

July 2010

cd community design
dc assistance center

College of Architecture and Urban Studies
Virginia Polytechnic Institute and State University

Project Team

Elizabeth Gilboy	Director
Kim Steika	Landscape Architecture Project Coordinator
Naixuan Gan	Graduate Student, Landscape Architecture
Yanting Zhang	Graduate Student, Landscape Architecture
William West	Graduate Student, Urban Forestry
Tish Poteet	Undergraduate Student, Horticulture



Support for this project was provided by the Virginia Department of Forestry through an Urban and Community Forestry grant.

Acknowledgements

Ronnie McCoy	Public Works Foreman, Town of Stanley
Terry Pettit	Town Manager, Stanley
Chuck Short	Parks and Recreation Director, Town of Stanley

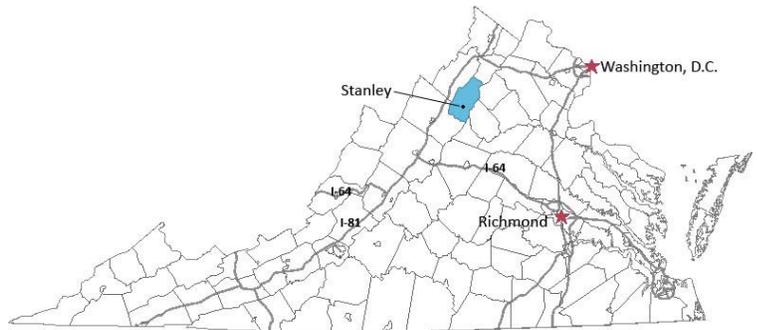
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Project Description



View of Ed Good Memorial Park with the Shenandoah National Park in the background.



State context map showing the Town of Stanley and Page County in relationship to the Commonwealth of Virginia.

Stanley is a small Virginia town of approximately 1,400 people nestled in the Shenandoah Valley in Page County. The Ed Good Memorial Park is located in downtown Stanley. It is the site of the Town of Stanley's annual Homecoming event and is also home to the Town's skate park - "The Hawk". The park is bounded on one side by an active railroad track and is divided by an open drainage swale. A group of local residents has initiated the idea of adding a trail to the park for health and recreation. A memorial area has also recently been added to the park, honoring fallen police and firefighters from the area. Pioneer Bank, a local bank, celebrated its 100th anniversary on December 3rd, 2009. In honor of their service to the community, they have donated the cost of a playground to the park.

The Community Design Assistance Center was asked to help weave these new uses together and identify possible additional recreational uses for the park through the development of a conceptual master plan. The CDAC team worked with Town staff and community residents to develop a conceptual master plan for the park that looks to optimize the space and increase recreational activities. The CDAC design team considered existing programmatic uses of the site and wove these together with desires for additional facilities. Potential future trail connections to other parks or areas in the Town were also explored. The conceptual master plan addressed the desire for defining the property's edge and enhancing screening from the railroad track; the existing drainage swale to maximize usable space while also seeking to improve stormwater management; and enhanced the current parking lot. Opportunities for additional site plantings were also recommended.



Images of Ed Good Memorial Park.



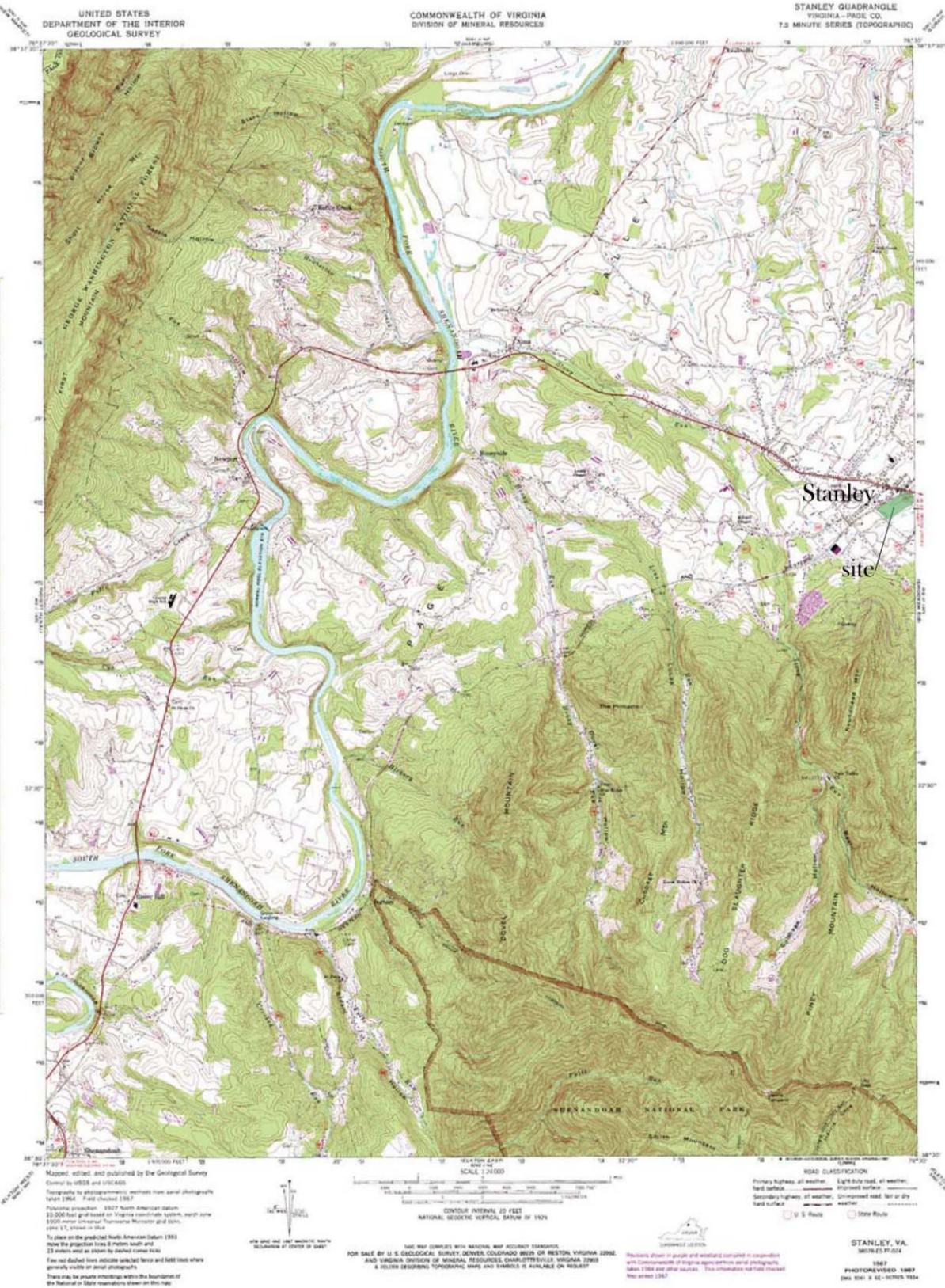
Entrance and parking lot for the Ed Good Memorial Park. Active railroad tracks (left) border the park property.



The Ed Good Memorial Park offers some lovely views of the surrounding landscape.



View of "The Hawk" - Stanley's skate park.



Aerial imagery copyright 2006-07 Commonwealth of Virginia

Ed Good Memorial Park

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STANLEY VA

REGIONAL CONTEXT MAP

Design Process



Parks and Recreation Director Chuck Short (left) and Town Manager Terry Pettit (right) tour the park site with CDAC team members Naixuan Gan (left center) and Yanting Zhang (right center).



CDAC team member Yanting Zhang (right) presents a preliminary design concept to Town officials and community members.

The CDAC design team began the project in October 2009 with an initial site visit and meeting with Town Manager Terry Pettit and Parks and Recreation Director Chuck Short. During this visit the team discussed project goals with Town staff, toured and photographed the site, visited the Town's other recreational facilities, and identified possible destinations to link via a town-wide trail system.

The CDAC team returned to Blacksburg to develop a base map, photoboard, and site inventory and analysis. The CDAC team returned to Stanley in early November to field check the site analysis and to tour the Luray Hawksbill Greenway with Terry Pettit.

The Town of Stanley distributed a short survey to the residents to Stanley, soliciting input regarding recreational needs within the Town. The CDAC design team used feedback from the survey to guide them during the preliminary conceptual design process.

Two alternative conceptual designs were developed. These concepts, along with supporting sketches, were presented to community members in Stanley on April 1st, 2010. The conceptual alternatives were revised into a single conceptual design concept based on community feedback and guidance from Town staff. The final conceptual master plan was presented to town staff, town council, and community members on May 18, 2010. Following the final presentation, soil samples were taken and a planting plan was developed.

This short, supporting report was prepared to document the design process and describe the proposed design concepts for the Ed Good Memorial Park Conceptual Master Plan.

Site Inventory & Analysis



CDAC team members Naixuan Gan (left) and Yanting Zhang (right) evaluate the existing conditions of the park.

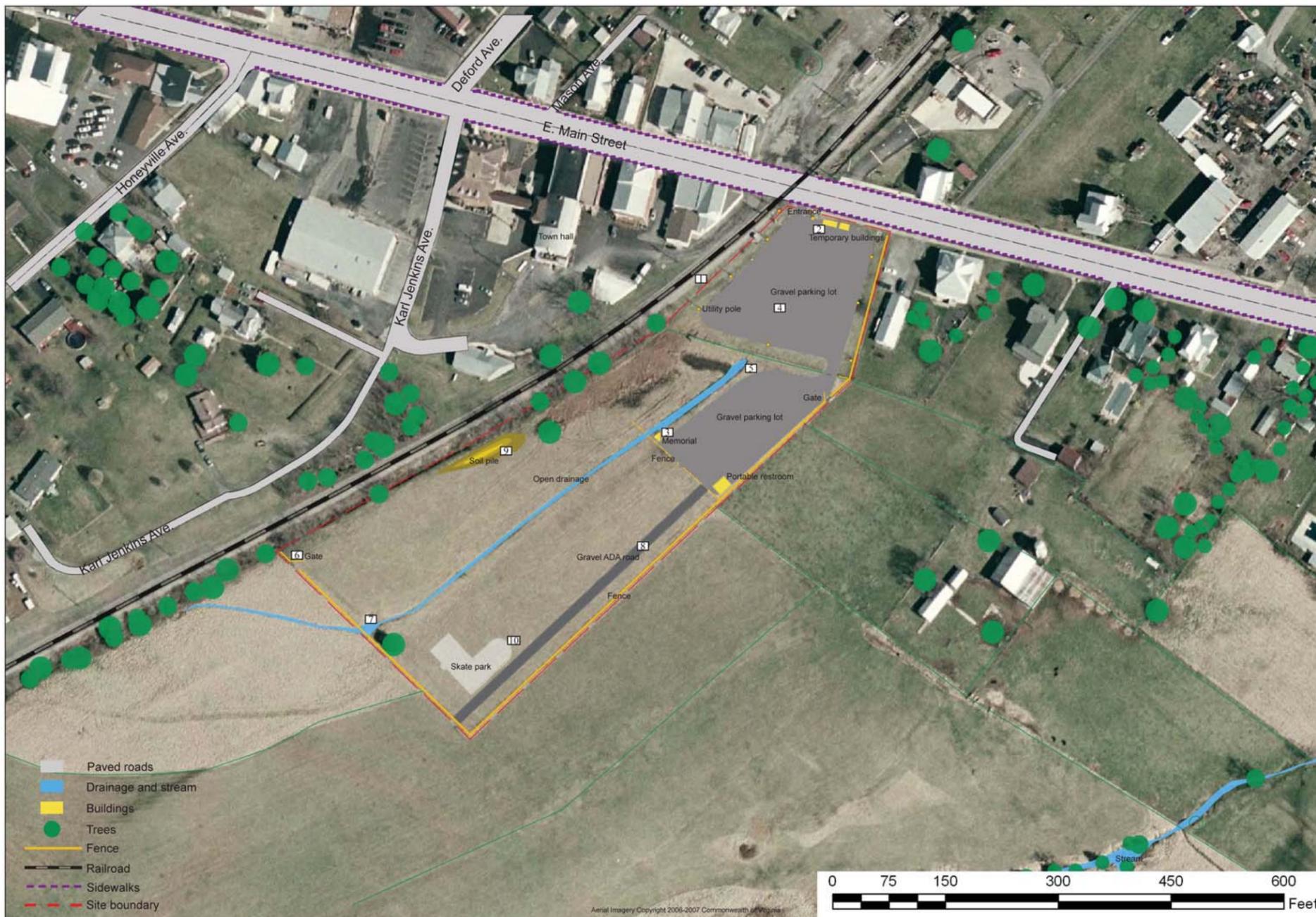


A drainage swale enters the site from the southeast corner and passes through the center of the site until it reaches the parking area.

The CDAC design team made several visits to Stanley to examine the existing conditions of the site and identify opportunities for design enhancement or improvement. The CDAC team prepared a series of inventory and analysis drawings that addressed elements such as existing site features, topography, drainage patterns, land type (habitat), and views to enhance or screen. Soil samples were taken to identify current soil pH. The soil sample reports can be found in Appendix A. Information from the inventory and analysis aided the CDAC design team in the formation of preliminary conceptual designs for the site.

The CDAC team also visited the Luray Hawksbill Greenway with Stanley Town Manager Terry Pettit as a case study for trail qualities that may be desirable for the Stanley trail.

Inventory and analysis 11x17 pullout drawings can be found on the following pages. Following the 11x17 pullouts are photographic examples from the Luray Hawksbill Greenway.



1. Railroad



2. Temporary buildings



3. Memorial



4. Existing gravel parking lot



5. Drainage pipe and stream



Existing public spaces and proposed connections



6. Gate connecting to another site



7. Open drainage



8. Gravel ADA road



9. Soil pile



10. Skate park

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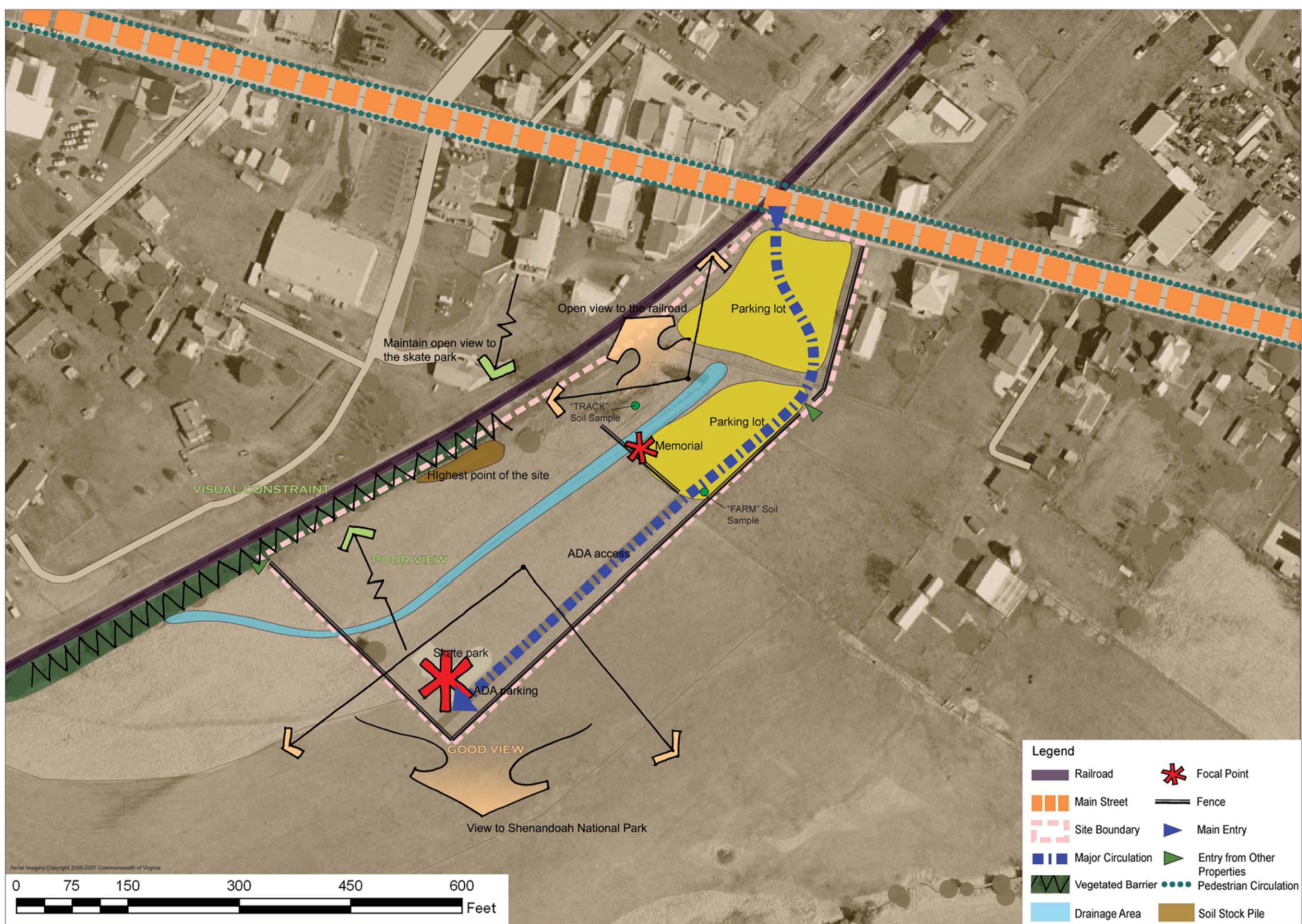
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INVENTORY BOARD





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ANALYSIS BOARD



Luray Hawksbill Greenway Example Images



Sponsored bench along the Luray Hawksbill Greenway.



Trail map and informational kiosk.



Pedestrian bridge on the Luray Hawksbill Greenway.



Low-growing border plantings found along sections of the trail.



Public seating and gathering area adjacent to the greenway.



Greenway signage example.



Wooden bollards separate trail users from one-way vehicular traffic on an adjacent road.



Greenway memorial plaque.



Adjacent natural features add visual interest for Luray trail users.



Example of trail width and striping.

Survey Responses

The Town of Stanley developed and distributed a short survey asking residents to list their perceived recreational needs and desires for additional programming activities at Ed Good Memorial Park. Of the surveys returned, a farmer's market, an amphitheater/stage area, and basketball courts were the highest ranking preferences. Additional ideas included tennis courts, play areas for children, street services, Christian entertainment, small picnic shelter, wishing well, and a putt putt course.

A complete list of survey questions and responses can be found in Appendix B.

Preliminary Design Concepts



CDAC team member Naixuan Gan presents preliminary conceptual ideas for Ed Good Memorial Park.



CDAC team member Kim Steika describes the design process to date.

Two conceptual design alternatives were prepared and presented to Stanley Town staff and community residents on April 2nd, 2010 for review and feedback. Following the presentation, the design concepts were further reviewed by town staff and town council and comments were sent to the CDAC team. Descriptions of each concept can be found below.

Concept A

Concept A looks to create a strong and clear entrance feature for the park. A proposed park sign spans the entrance road creating a gateway to the park for visitors to pass under. The addition of plantings along Main Street enhances the park's relationship to the street and provides clear definition of the park edge. A two way entrance road leads to a parking lot that is located adjacent to the walking trail and covered shelter/playground area. A stage and grassy lawn area are proposed in the northern end of the park. This flexible space can be used during the homecoming festival and other town events such as a weekly farmer's market. It also serves as a flat, grassy multi-purpose area for unprogrammed events such as frisbee. A small access road, constructed out of porous pavers, will serve vendors of the farmer's market, allowing them to park and set up tents adjacent to this road. During non-market hours, the road can serve as pedestrian access into the park.

A covered pavilion and deck are proposed adjacent to the playground. A loop trail proceeds from this deck area and connects key elements in the rest of the park. A proposed display area is located next to the existing memorial space. This display area will highlight Stanley's railroad heritage and other key points of the town's history. Upcoming community events can also be posted in this space.

Further along the trail, an exercise station is proposed, offering park residents and visitors an additional opportunity for active living. A small picnic area is proposed in the southwestern corner of the park, taking advantage of the phenomenal view of Roundhead Mountain in the distance. A basketball court is proposed near the skate park, offering another active recreational opportunity in Ed Good Memorial Park. Plantings are proposed along the perimeter of the park as well as along the grassed swale. These plantings increase habitat opportunities and provide visual and seasonal interest to the park. An 11x17 pullouts for Preliminary Design B can be found on the following page.



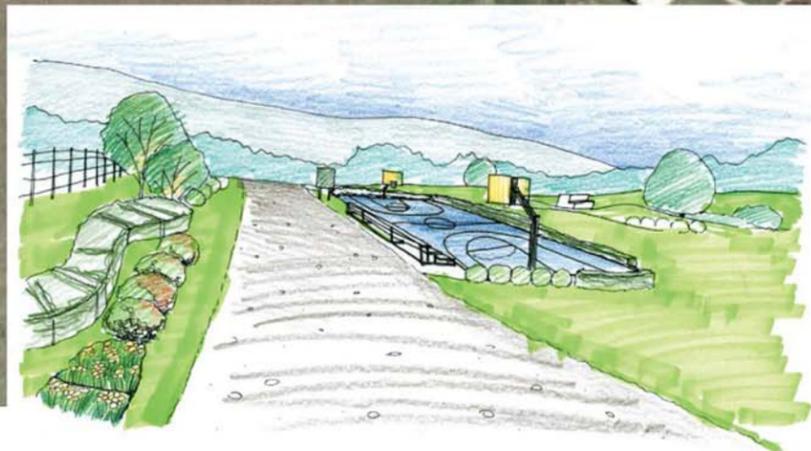
Master plan of concept A



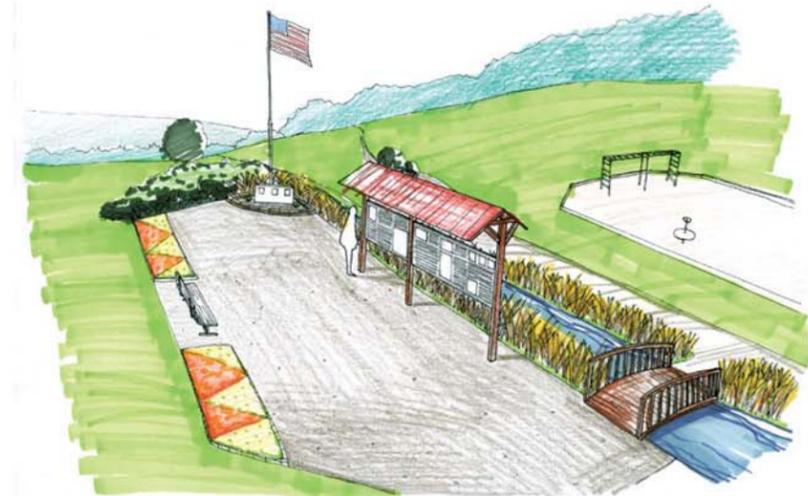
Proposed design for park entrance



View of the wooden deck over wet-weather stream



View of proposed trail & basketball court



Proposed town history display next to existing memorial

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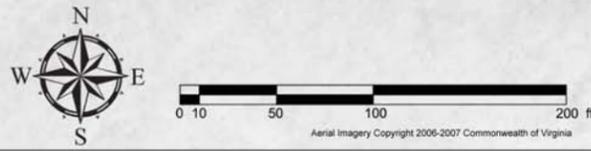
PRELIMINARY CONCEPT PLAN A

Concept B

Based on the survey responses of local residents' ideas towards the park and the park's own unique nature character, Concept B divides the site into three different functional areas: entrance and farmer's market area; playground, shelter and basketball court area; stage and amphitheater area.

The entrance and farmer's market area includes plantings and benches, creating a defined and welcoming entrance to the park from Main Street. Clustering the playground, shelter, and basketball court allows for a family activity zone, located near convenient parking. The stage and amphitheater area is sited to take advantage of the gorgeous mountain backdrop. A loop trail connects the features of the park and allows for additional health and recreation opportunities.

An 11x17 pullouts for Preliminary Design B can be found on the following page.



Plan



Perspective of Farmer's Market



Perspective of Shelter and Playground Area



Perspective of Stage and Amphitheater

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PRELIMINARY CONCEPT PLAN B

Final Conceptual Master Plan



Kim Steika describes the final conceptual master plan.



Chuck Short (left), Ronnie McCoy (right center), and CDAC team member Naixuan Gan (right) discuss proposed sketches for the site.

Following the preliminary design presentation, the Stanley Town Council requested a few weeks to review and consider the design options. Comments on the two concepts and preference for the final conceptual master plan were sent to the CDAC team via Terry Pettit, Town Manager. Comments included:

- locate the amphitheater near the back of the park, as shown in Concept B
- include a picnic area between the playground and the amphitheater
- remove the proposed basketball courts
- depict the current grassed drainage swale as enhanced with riparian vegetation up to the memorial area. From the memorial to Main Street, show the ditch as piped and covered with earth and turf.
- retain the entrance feature, as shown in Concept A
- include the farmer's market structure, as shown in Concept B
- include the covered shelter and wooden deck overlooking the playground
- include an area for a small history display

Based on the comments received, the CDAC team refined the preliminary design concepts into a final conceptual master plan and presented it to the community on May 18th, 2010.

Pullouts of the final conceptual master plan and supporting sketches can be found on the following pages.



Master Plan

Aerial Imagery Copyright 2006-07 Commonwealth of Virginia
Prepared May 2010

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FINAL CONCEPTUAL MASTER PLAN



View of proposed park entrance signage



Proposed farmer's market



Playground and picnic shelter



Proposed amphitheater

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SUPPORTING SKETCHES

Planting Plan

Following the final presentation, the CDAC design team, with help from horticulture and urban forestry student project members, developed a proposed planting plan in correspondence to the final conceptual master plan for Ed Good Memorial Park. Plant species were selected based on soil pH, USDA hardiness zone, form and seasonal value, and likely availability from the nursery trade. 11x17s of the planting plan and supporting plant information can be found on the following pages.



Red Maple¹

River Birch²



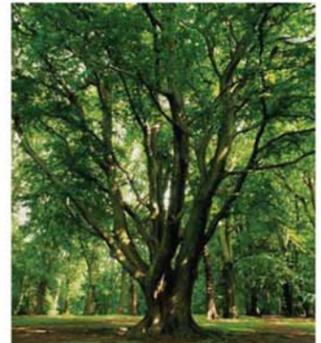
Weeping Katsura Tree³



Eastern Redbud⁴



Winter King Hawthorn⁵



American Beech⁶



Carolina Silverbell⁷

Plant Key

Scientific Name	Common Name
Trees:	
Ar Acer rubrum 'October Glory'	Red Maple
Bn Betula nigra 'Heritage'	River Birch
Cj Cercidiphyllum japonicum f. pendulum	Weeping Katsura Tree
Cc Cercis canadensis	Eastern Redbud
Ck Crataegus viridis 'Winter King'	'Winter King' Hawthorn
Fg Fagus grandifolia	American Beech
Hc Halesia carolina	Carolina Silverbell
Hv Hamamelis virginiana	Witch Hazel
Jv Juniperus virginiana 'Canaertii'	Eastern Red Cedar
Ls Liquidambar styraciflua 'Rotundiloba'	Seedless Sweetgum
Ma Magnolia acuminata 'Elizabeth'	Cucumber Magnolia
Ns Nyssa sylvatica	Black Gum
Ov Ostrya virginiana	American Hornbeam
Qs Quercus shumardii	Shumard Oak
Sp Stewartia pseudocamellia var. japonica	Japanese Stewartia
Td Taxodium distichum	Baldcypress
Grasses:	
As Andropogon scoparius	Little Bluestem
Perennial Mix	
Riparian Mix	
Shrubs:	
Fo Fothergilla gardenii 'Beaver Creek'	Dwarf Fothergilla



Witch Hazel⁸



Eastern Red Cedar⁹



Seedless Sweetgum¹⁰



Cucumber Magnolia¹¹



Black Gum¹²



American Hornbeam¹³



Shumard Oak¹⁴



Japanese Stewartia¹⁵



Bald Cypress¹⁶



Dwarf Fothergilla¹⁷



Little Bluestem¹⁸

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ED GOOD MEMORIAL PARK STANLEY VA PLANTING PLAN

Plant List

Trees:

SCIENTIFIC NAME	COMMON NAME	QUANTITY	NOTES
<i>Acer rubrum</i> 'October Glory'	Red Maple	10	Other cultivar alternatives include 'Red Sunset' or 'Sun Valley'
<i>Betula nigra</i> 'Heritage'	River Birch	3	
<i>Cercidiphyllum japonicum</i> f. <i>pendulum</i>	Weeping Katsure Tree	1	
<i>Cercis canadensis</i> 'Ace of Hearts'	Eastern Redbud	2	
<i>Crateagus viridis</i> 'Winter King'	'Winter King' Hawthorn	6	
<i>Fagus grandifolia</i>	American Beech	10	
<i>Halesia carolina</i>	Carolina Silverbell	5	Use container stock, not B&B
<i>Hamamelis virginiana</i>	Witch Hazel	5	Alternative: <i>Hamamelis vernalis</i>
<i>Juniperus virginiana</i> 'Canaertii'	Eastern Red Cedar	4	Alternative cultivar: 'Hillspire'
<i>Liquidambar styraciflua</i> 'Rotundiloba'	Seedless Sweetgum	9	
<i>Magnolia acuminata</i> 'Elizabeth'	Cucumber Magnolia	1	
<i>Nyssa sylvatica</i>	Black Gum	4	
<i>Ostrya virginiana</i>	American Hornbeam	2	
<i>Quercus shumardii</i>	Shumard Oak	1	
<i>Stewartia pseudocamellia</i> var. <i>japonica</i>	Japanese Stewartia	27	
<i>Taxodium distichum</i>	Baldcypress	1	

Grasses:

SCIENTIFIC NAME	COMMON NAME	QUANTITY	NOTES
<i>Andropogon scoparius</i>	Little Bluestem		

Shrubs

SCIENTIFIC NAME

Fothergilla gardenii 'Beaver Creek'

COMMON NAME

Dwarf Fothergilla

Perennial Mix:

SCIENTIFIC NAME

Coreopsis auriculata 'Nana'

Echinacea purpurea 'Kim's Knee High'

Rudbeckia fulgida var. *sullivantii* 'Goldsturm'

Sedum 'Autumn Joy'

Teucrium chamaedrys

Teucrium chamaedrys var. *prostratum*

COMMON NAME

Dwarf Mouse-Ear Coreopsis

Dward Purple Coneflower

Orange Coneflower

'Autumn Joy' Sedum

Wall Germander

Creeping Germander

Riparian Mix: See Appendix C for possible suggestions

Conclusion



Newly constructed playground at Ed Good Memorial Park



Existing memorial in the park

Ed Good Memorial Park is already a great community asset. The existing skate park provides recreation activities for those both near and far, drawing visitors from outlying areas. The newly constructed playground, thanks to the generosity of Pioneer Bank, will provide new and exciting recreational opportunities for a different age group. The implementation of additional features such as the newly named Roundhead View Trail, picnic shelter, area history display, outdoor amphitheater and covered farmer's market shelter will help this park to offer something of interest for everyone in the community.

Appendices

Appendix A: Soil Test Results-----page 28

Appendix B: Survey Responses-----page 30

Appendix C: Landscaping for Riparian Buffers-----page 35

Appendix D: Planting Plan Photo Credits-----page 38

Appendix A: Soil Test Results

Two soil tests were taken at Ed Good Memorial Park and sent to the Virginia Cooperative Extension soil lab for testing to determine soil pH and percentage of organic material present in the soil. The CDAC team used the findings to guide them in the plant selection process. A copy of the soil report can be found on page 28.

**VIRGINIA COOPERATIVE EXTENSION
SOIL TESTING LABORATORY**

Person STEIKA KIM
Submitting CDAC 101 S MAIN ST SUITE 2
Samples: 0450

911
Unit: VPI & SU CAMPUS

LABORATORY RESULTS

Sample ID	Lab ID	pH	BpH	P	K	Ca	Mg	Zn	Mn	Cu	Fe	B	mg/100g Est.			Base Sat		Ca Sat		Mg Sat		K Sat		OM	SS
													CEC	Acidity	Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat			
FARM	30690	5.67	6.20	7	48	592	74	2.4	8.2	0.7	35.9	0.4	4.9	24.4	75.6	60.6	12.5	2.5	2.5	3.6					
TRACK	30689	6.01	6.47	15	100	1556	209	1.4	6.0	0.5	10.4	0.4	9.8	0.4	99.6	79.4	17.6	2.6	2.6	1.8					

Appendix B: Survey Responses

A copy of the survey distributed by the Town of Stanley regarding preferences for Ed Good Memorial Park can be found on the pages 30 and 31. A summary of survey responses received can be found on page 32-33.

Ed Good Memorial Park Survey

Exciting things are happening in Ed Good Memorial Park and we invite you to take part in the process! Pioneer Bank is celebrating 100 years of service in the community and in recognition of this milestone event, the bank has raised over \$50,000 in funds to purchase playground equipment for Ed Good Park. In fact, equipment has already been purchased and will be installed this spring. In addition to this, the Town of Stanley is working with the Community Design Assistance Center (CDAC) at Virginia Tech to develop a long-range vision for Ed Good Memorial Park. **The CDAC team needs your help to create conceptual master plan alternatives for the site.** Please complete this short survey and let us know how Ed Good Memorial Park could be enhanced to better serve the community.

Also, we invite you to join us for a public presentation of preliminary design concepts for the park at a time and location to be announced later. Results from the survey and design ideas will be presented by the Community Design Assistance Center at the meeting.

1. A trail is planned for Ed Good Memorial Park. This trail will initially be a short loop with the potential to expand and connect to other destinations in Town. We are seeking suggestions for what to name the trail. Please write your ideas below.

2. What programmatic activities would you like to see offered at Ed Good Memorial Park? Please rank the following options in order of preference from 1 to 5, with 1 being your highest priority for the park.

Basketball Court

Tennis Court

Amphitheater/Stage area

Farmer's Market

Other (please list): _____

Other (please list): _____

3. Would you be interested in assisting with the construction of park elements?

Yes

No

If yes, please include your contact information: _____

4. Would you be interested in assisting in serving on a park maintenance committee to help with maintaining plantings or other park amenities?

Yes

No

If yes, please include your contact information: _____

Summary of Survey Responses

Q1. A trail is planned for Ed Good Memorial Park. This trail will initially be a short loop with the potential to expand and connect to other destinations in Town. We are seeking suggestions for what to name the trail. Please write your ideas below.

- Serenity Trail
- Round Mountain Trail
- Paradise Trail
- Mountain View Trail or Roundhead View Trail
- The Sabbath Bicycle Trail
- The New Beginning Trail
- The Roundhead Trail or the Frank Aleshire Trail

Q2. What programming activities would you like to see offered at Ed Good Memorial Park? Please rank the following options in order of preference from 1 to 5, with 1 being your highest priority for the park.

Ranking Preference: **1st** **2nd** **3rd** **4th** **5th**

Activity and Number of Responses Associated with Rankings

Basketball Court		1	3	1	
Tennis Courts				3	2
Amphitheater/Stage Area	4	1	1		
Farmer's Market	4	1	1	1	
Other (fill in blank):					
Play Area for Children		1			
Street Services at Memorial	listed but not ranked				
Christian Entertainment	listed but not ranked				
Picnic Tables	listed but not ranked				
Large Gazebo	listed but not ranked				
Picnic Shelters	listed but not ranked				
Wishing well	listed but not ranked				
Putt Putt Course		1			

Q6. Are there any other comments or ideas you would like to share with us regarding Ed Good Memorial Park? Please list below.

- I remember the Hawksbill Pool and how great it was. The Ed Good Memorial Park will not make any money. You're trying to put a round peg in a square peg. I cannot give money away when times are tough. Don't you remember the recessions, surely you did not get the picture of "The Great Depression."

- The playground should have been left at the renovated pool. This could have been a way to generate additional funds to the pool. The basketball and tennis courts should be with the skate park for older kids and adults to use. The trail at the Hawksbill Recreation Center needs renovation - and could be expanded - but no one seems to maintain this one. Eventually connect as a hike/bike trail? Is there a "master plan?" space that is adequate for tennis and basketball courts near the same space for a playground?

- I think Stanley needs a place where teens can go for good, clean fun and need to be kept off the street as much as possible.

- Wide enough for bicycle walking trail. Buy lot across from Al Food Drive and make walking trail with picnic tables and large gazebo or invite McDonald's to open a fast food place.

- Include "in memory of" benches, tables, etc; picture plaques with old (past) pictures and history of Stanley; also Scripture plaques in the park.

Appendix C: Landscaping for Riparian Buffers

The following pages contain possible woody, herbaceous, and fern plant species suggestions for riparian buffers. The plant recommendations were provided by Barbara White, Urban and Community Forestry Partnership Coordinator at the Virginia Department of Forestry.

Landscaping for Riparian Buffers; Woody

Scientific Name	Common Name	Type	Zone	Spacing	Height	Sun / Shade
<i>Acer rubrum</i>	Red Maple	Tree	1-4	10-30 ft	60-80 ft	Sun / shade
<i>Alnus serrulata</i>	Alder	Shrub	1-3	6-10 ft	12-20 ft	Sun / part shade
<i>Amelanchier canadensis</i>	Serviceberry	Small Tree	2-4	10-15 ft	25-35 ft	Shade / part shade
<i>Aronia fruticosa</i>	Red Chokecherry	Shrub	2-4	4-6 ft	5-12 ft	Shade / part shade
<i>Asimina triloba</i>	Paw paw	Small tree	3-4	5-15 ft	15-20 ft	Shade / part shade
<i>Betula nigra</i>	River birch	Tree	2-4	10-20 ft	40-80 ft	Sun / shade
<i>Callicarpa americana</i>	American Beautyberry	Shrub	3-4	3-5 ft	5-10 ft	Sun / part shade
<i>Carpinus caroliniana</i>	Ironwood	Small tree	3-4	15-20 ft	30 ft	Sun / shade
<i>Cephalanthus occidentalis</i>	Buttonbush	Shrub	1-3	4-8 ft	4-8 ft	Sun / part shade
<i>Clethra alnifolia</i>	Sweet pepperbush	Shrub	3-4	4-8 ft	4-8 ft	Sun / shade
<i>Cornus racemosa</i>	Graystem Dogwood	Shrub	2-4	4-8 ft	4-10 ft	Sun / shade
<i>Cornus stolonifera</i>	Redtwig Dogwood	Shrub	2-4	4-8 ft	4-10 ft	Sun / shade
<i>Diospyros virginiana</i>	Persimmon	Tree	2-4	10-25 ft	25-60 ft	Sun / part shade
<i>Fothergilla gardenii</i>	Dwarf Fothergilla	Shrub	1-3	4-8 ft	5-6 ft	Sun / part shade
<i>Fraxinus americana</i>	White ash	Tree	2-4	10-30 ft	50-80 ft	Sun / part shade
<i>Hamamelis virginiana</i>	Witchhazel	Shrub	3-4	5-10 ft	6-12 ft	Sun / part shade
<i>Ilex decidua</i>	Possumhaw	Shrub	2-4	5-10 ft	7-15 ft	Sun / part shade
<i>Ilex glabra</i>	Inkberry Holly	Evergreen shrub	2-4	3-5 ft	4-8 ft	Sun / part shade
<i>Ilex verticillata</i>	Winterberry holly	Shrub	2-4	3-5 ft	6-10 ft	Sun / shade
<i>Itea virginica</i>	Virginia sweetspire	Shrub	2-3	4-8 ft	5-10 ft	Sun / part shade
<i>Juniperus virginiana</i>	Eastern redcedar	Tree	3-4	12-20 ft	30-40 ft	Sun / part shade
<i>Liquidambar styraciflua</i>	Sweetgum	Tree	2-4	10-30 ft	60-100 ft	Sun / shade
<i>Magnolia virginiana</i>	Sweetbay Magnolia	Small tree	3-4	10-15 ft	15-25 ft	Sun / part shade
<i>Myrica</i>	Wax Myrtle	Evergreen shrub	1-4	4-8 ft	8-12 ft	Sun / part shade
<i>Nyssa sylvatica</i>	Black gum	Tree	2-4	10-30 ft	30-60 ft	Sun / part shade
<i>Oxydendrum arboreum</i>	Sourwood	Tree	2-4	10-30 ft	30-50 ft	Sun / part shade
<i>Platanus occidentalis</i>	Sycamore	Tree	1-4	10-30 ft	75-100 ft	Sun / part shade
<i>Quercus phellos</i>	Willow oak	Tree	2-4	10-30 ft	50-90 ft	Sun / part shade
<i>Rhododendron viscosum</i>	Swamp Azalea	Tree	2-3	3-5 ft	3-6 ft	Sun / shade
<i>Salix discolor</i>	Pussy willow	Shrub	1-3	5-8 ft	8-10 ft	Sun / part shade
<i>Salix nigra</i>	Black willow	Shrub	1-3	10-15 ft	15-25 ft	Sun / part shade
<i>Taxodium distichum</i>	Bald cypress	Small tree	1-4	10-30 ft	60-90 ft	Sun / part shade
<i>Tsuga canadensis</i>	Eastern Hemlock	Tree	1-4	10-30 ft	60-90 ft	Sun / shade
<i>Vaccinium corybosum</i>	Highbush blueberry	Shrub	2-3	4-8 ft	6-8 ft	Sun / part shade

Landscaping for Riparian Buffers; Herbaceous

Scientific Name	Common Name	Zone	Spacing	Height	Sun / Shade
<i>Acorus calamus</i>	Sweet flag	1	1 ft	1-2 ft	Sun / part shade
<i>Ajuga reptans</i>	Bugleweed	3-4	6 inches	2-8"	Sun / part shade
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	3-4	1 ft	1-3 ft	Shade
<i>Asarum canadense</i> +	Wild ginger	4	1 ft	3-6 inches	Part shade / shade
<i>Caltha palustris</i>	Marsh marigold	2-3	1 ft	1-1.5 ft	Sun / part shade
<i>Chelone sp.</i>	Turtlehead	2-3	1-1.5	3 ft	Part shade / shade
<i>Equisetum hyemale</i>	Horsetail	1-3	1 ft	2-4 ft	Sun / shade
<i>Eupatorium</i>	Joe Pye weed	2-4	2-3 ft	4-8 ft	Sun / part shade
<i>Eupatorium</i>	Boneset	2-3	1.5-2 ft	2-3 ft	Sun / part shade
<i>Gentiana</i>	Gentian, various	2-4	1 ft	1-2.5 ft	Sun / part shade
<i>Hemerocallis</i>	Daylilies	2-4	1 ft	1-3 ft	Sun
<i>Hibiscus militaris</i>	Rose mallow	1-3	2-4 ft	3-5 ft	Sun / part shade
<i>Hibiscus palustris</i>	Swamp rose mallow	1-3	2-4 ft	3-5 ft	Sun / part shade
<i>Iris ensata</i>	Japanese iris	1-2	1-1.5 ft	2.5-4 ft	Sun / part shade
<i>Iris pseudacorus</i>	Yellow flag iris	1-2	1-1.5 ft	3-4 ft	Sun / part shade
<i>Iris versicolor</i>	Blue flag iris	1-2	1 ft	2-3 ft	Sun / part shade
<i>Lilium superbum</i>	Turk's cap lily	2-4	1 ft	3-5 ft	Sun / part shade
<i>Lobelia cardinalis</i>	Cardinal flower	2-3	1 ft	2-4 ft	Sun / part shade
<i>Lobelia siphilitica</i>	Great blue lobelia	2-3	1 ft	1-3 ft	Part shade / shade
<i>Mertensia virginica</i>	Virginia blue bells	2-4	1 ft	1-2 ft	Part shade / shade
<i>Monarda didyma</i>	Bee balm	2-3	1-1.5 ft	1-5 ft	Sun / part shade
<i>Oenothera fruticosa</i>	Sundrops	1-4	1 ft	1-3 ft	Sun
<i>Polemonium van-bruntiae</i>	Jacob's ladder	1-3	1 ft	1.5-2.5 ft	Part shade / shade
<i>Pontederia cordata</i>	Pickereilweed	1	1-1.5 ft	1-2 ft	Sun
<i>Rudbeckia laciniata</i>	Tall coneflower	2,3	1 ft	3-8 ft	Sun / part shade
<i>Saururus cernuus</i>	Lizard's tail	1-2	1 ft	2-4 ft	Sun / part shade
<i>Solidago elliotii</i>	Elliott's Goldenrod	2-4	1-1.5 ft	2-6 ft	Sun / part shade
<i>Vernonia altissima</i>	Ironweed	2-4	1-2 ft	2-5 ft	Sun / part shade
<i>Zephranthes atalasco</i>	Zephyr lily	2-4	8-12	1-1.5 ft	Sun / part shade
Ferns					
<i>Matteuccia struthiopteris</i>	Ostrich fern	2-3	2-4 ft	4-5 ft	Part shade / shade
<i>Onoclea sensibilis</i>	Sensitive fern	2-4	1 ft	2 ft	Part shade / shade
<i>Osmunda claytoniana</i>	Interrupted fern	3-4	2-3 ft	2-4 ft	Part shade / shade
<i>Osmunda cinnamomea</i>	Cinnamon fern	2-3	1-3 ft	2-4 ft	Sun / shade
<i>Osmunda regalis</i>	Royal Fern	2,3	2-4 ft	3-5 ft	Part shade / shade
<i>Polystichum acrostichoides</i>	Christmas fern	3-4	1 ft	2 ft	Sun / shade

ZONES

1. Waters edge, emergent

2. Lower flood plain, saturated soils

3. Upper flood plain, occasionally saturated soils

4. Upland interface, well drained

Appendix D: Planting Plan Photo Credits

The pictures included in the planting plan were taken from the following sources (number corresponds to the footnote in the caption on each plant label):

1. http://keepbrazosbeautiful.org/Portals/cef67865-9f3b-4118-97d4-0ea2237a4f71/red_maple.jpg
2. [http://www.freewebs.com/dryadia/Birch%20\(River%20Birch\)%20Betula%20nigra.jpg](http://www.freewebs.com/dryadia/Birch%20(River%20Birch)%20Betula%20nigra.jpg)
3. <http://www.bannistercreek.com/bcn%20weeping%20katsura.jpg>
4. <http://www.midvalleytrees.com/prodimages/Cercis%20Canadensis%20Eastern%20Redbud.jpg>
5. [http://www.freewebs.com/dryadia/Birch%20\(River%20Birch\)%20Betula%20nigra.jpg](http://www.freewebs.com/dryadia/Birch%20(River%20Birch)%20Betula%20nigra.jpg)
6. <https://mvscience.wikispaces.com/file/view/define-beech-american-1.jpg/77184105/define-beech-american-1.jpg>
7. <http://www.fotitree.com/SS/images/silverbell.jpg>
8. <http://www.virginiaplaces.org/virginiajourneys/graphics/witchhazel.jpg>
9. http://www.superscapes.net/images/portfolio/shade_trees/eastern_red_cedar_big.jpg
10. http://www.soonerplantfarm.com/_cclib/image/plants/DETA-108.jpg
11. http://www.cirrusimage.com/Trees/Magnolias/cucumbertree_3.jpg
12. <http://www.porkyfarm.com/images/Black%20Gum.jpg>
13. <http://www.huntersville.org/interactive%20ordinance/IMAGES/AmericanHornbeam.jpg>
14. <http://www.mobot.org/gardeninghelp/images/low/V140-0906050tp.jpg>
15. <http://www.collierarbor.com/images/featuredTrees/stewartia.jpg>
16. http://www.villageoftowerlakes.com/village/forestry/Bald_Cypress_1.jpg
17. <http://www.habitas.org.uk/gardenflora/images/fothergilla2.jpg>
18. http://sandybottom.com/assets/grasses/little_bluestem.jpg