City of Columbia Council Meeting

Grindstone Creek Trail Phase I
Public Hearing
B215-13
$1.57 million budget (appr $1.3 million balance)
- Funded by 2010 Park Sales Tax
- Included in Council Resolution R166-10 & ballot promotions.
- Proposed 10-ft concrete trail.

Included in lease with MDC on Waters-Moss Wildlife Area.

Part of trail system that connects:
- Hinkson Creek Trail
- MU Recreational Trail
- MKT Trail
- Katy Trail State Park
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A RESOLUTION
specifying how the City Council intends to use funds that would be generated by the proposed extension of the one-eighth of one percent local parks sales tax.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The City Council of the City of Columbia, Missouri states its intent to use the funds that would be generated by the proposed extension of the one-eighth of one percent local parks sales tax as follows:

ACQUISITIONS/LAND PRESERVATION, $2,025,000
Acquire land for community parks, greenbelts, green space, wildlife corridors and natural area preservation
Acquire land for new neighborhood parks (an amount up to)

*Priorities to be determined by Council based upon city-wide growth patterns, availability of land, potential for full or partial donation, existing natural features, and master plan and staff recommendations.

IMPROVEMENTS TO EXISTING PARKS, $4,785,000

Park Improvements ($3,320,000)

Albert-Oakland Park – New Restrooms
Albert-Oakland Park – Athletic Fields Renovation
Armory Renovation – Activity/Meeting Room Flooring
Atkins Park Miscellaneous
Cosmo-Bethel Park – Light Tennis Courts, Trail
Cosmo Park – Football/Field Improvements
Cosmo Park – New Restrooms Soccer/Football Fields
Cosmo Park – Steelberg Playground Renovation
Douglas Park – Playground Renovation, Fitness Stations
Downtown Optimist Park Renovation
Fairview Park – Shelter/Replacement, Playground, Parking
Mt. Zion Park – Maplewood Barn, Parking
Shepard Bowman Tennis Courts Renovation
Trail Restroom Improvements – Garth, Grindstone, MLK
Twin Lakes Recreation Area Improvements

Annual Improvements ($1,475,000)

Annual Roads and Parking Improvements
Annual Joint City/School Playground Projects
Annual Park Improvements – Major Maintenance

TRAILS AND GREENBELTS, $2,070,000
Grindstone Trail Development – Grindstone Nature Area to Confluence
Annual Trail Improvements – Major Maintenance

NEW FACILITY/PARK DEVELOPMENT, $2,540,000

Neighborhood Parks ($375,000)
Develop three new neighborhood parks:
Barber Neighborhood Park
Jay Dix Neighborhood Park
Strawn Road Neighborhood Park

Community Regional Parks ($2,165,000)

Gans Creek Rec Area/Phillips Park – Phase I Development
Norma Suerland Smith Park – Phase I
Waters-Moss Park Phase I

CONTINGENCY
Contingency of 5%

BALLOT ISSUE TOTAL

ADOPTED this ___ day of ___ 2010.

ATTEST:

City Clerk

Mayor and Presiding Officer

APPROVED AS TO FORM:

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Key part of the trail system that connects to an estimated:
- 5,000 residents
- 3,000 jobs
- Battle High School
Total Estimated Trail Length: 9,192
- 12’ w x 9192 lf = 110,304 sq ft
- 10’ w x 9192 lf = 91,920 sq ft
- 8’ w x 9192 lf = 73,536 sq ft

Stream Buffer Zone
- 1,995 linear ft in inner buffer zone
- 160 linear ft bridges inner buffer zone (4 x 40 ft long)
- 2,430 linear ft in outer buffer zone

AASHTO Trail Width
Guideline Shared Use Paths
- 12-ft recommended
- 10-ft minimum
10 Separate Routes were Originally Considered

Grindstone Creek Trail Phase I
5 Routes Were Carried Forward to Detailed Review (3 Western)

Grindstone Creek Trail Phase I
5 Routes Were Carried Forward to Detailed Review (2 Eastern)
Possible Routes Evaluated For:
- Impacts on adjacent properties
- Impacts on specific destinations
- Impacts relative to trail users in adjacent neighborhoods
- Terrain
- Public safety
- Environment and sustainability
- Maintenance and operations
- Initial construction costs
Recommendation is for Council to Accept:

- **West Side – Orange Alignment**
  - Safest (avoids routing users on streets)
  - Follows existing City easements—less disturbance and includes easy access for trail easements
  - Most accessible to the full range of users
  - Most likely to encourage regular use

- **East Side – Violet Alignment**
  - Avoids an extra bridge (Blue route)
  - Each provides connection to the North & South Fork of the Grindstone Creek
Recommended Route:
- Orange
- Violet
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Recommended route is on:
- City (Grindstone Nature Area)
- Waters-Moss (MDC)
- Bluff Crk Estates HOA
- Bluff Crk Land Holding
- Walnut Brook LLC
- MoDOT (Hwy 63)
- MU
- MDS Real Estate
- Union Electric
Trail connects to Hinkson Creek Trail at the Grindstone Nature Area and crosses under Old Highway 63 and onto the Waters-Moss (MDC) property. Maintenance & construction access is off of Old 63 and is shown by solid red line.
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Waters-Moss Conservation Area

- MDC evaluated five routes & looked at other alternatives.
- In a July 22, 2013 letter from MDC Deputy Director Tim Ripperger, MDC Officially approved Orange route
Waters-Moss Conservation Area

- Orange route primarily follows existing sewer utility easement.
Orange route was redesigned to avoid all private homes.

- Old Route

Does not cross any East Pointe owned property.
Trail is approx 200-220 ft from nearest house to the north.
PROPOSED DESIGN ALIGNMENT CLARIFICATION
GRINDSTONE TRAIL

POSSIBLE VEGETATIVE SCREENING

EXISTING GROUND

VARIES

RETAINING WALL

2" CONCRETE SHOULDER
8"-10" CONCRETE TRAIL

TOE WALL

GRINDSTONE CREEK

TRAIL WIDTH MAY BE REDUCED TO 8' IF NECESSARY.

SCREENING IS ANTICIPATED TO BE A COMBINATION OF NEW AND EXISTING VEGETATION AS AGREED TO BY ADJACENT PROPERTY OWNERS AND CITY ARBORIST.
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Diagram 4 of 4  B215-13
Trail crosses onto three lots owned by the Bluff Creek Estates Neighborhood HOA
Two lots, #3 & #4, provide access to the neighborhood.
Bluff Creek Estates tentatively agreed to donate 3 lots or easements for the trail.
- If donate, resurvey lots #3 & #4.
- Landscape & sign.
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Grindstone Creek Trail Phase I
Diagram 4 of 4  B215-13

- Resurvey these 2 lots.
- Clearly identify the neighborhood connector as private lots.
- Landscape & sign.
Bluff Creek Estates connector.

Proposed low profile bridge.
Environmental Assessment

Table 9 of the alignment report qualitatively compared impacts of various alternatives in terms of:
- Amount of area disturbed
- Utilization of existing infrastructure
- Minimizing the future system footprint
- Surface water impacts – wetland and stream
- Vegetative impacts
- Forested area impacts
- Erosion impacts
- Wildlife corridors
- Greenhouse gas production
- The human environment
- Endangered species
70% of the proposed orange alignment will be along existing sewer easement or other infrastructure.

50% of the proposed violet alignment or 81% of the alternate blue alignment will be along existing sewer easement or other infrastructure.
The alignments that are selected for final design will be required to comply with:

- The Clean Water Act (sections 404 and 401)
  - Jurisdictional streams and wetlands are required to be identified and impacts to be avoided, minimized & mitigated
- The Endangered Species Act
- National Flood Insurance Program
- Columbia storm water ordinance
- State and local land disturbance regulations
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3 Low Profile Bridges Confirmed by Engineers
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Grindstone Creek Trail Phase I
Sample of Proposed Low Profile Bridge

Low profile bridges as used on MDC property.
Proposed bridges will be lower than shown.
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Preliminary Low-Profile Bridge Plan -- Bridge #1 B215-13
Public Hearing
Grindstone Creek Trail Phase I
Preliminary Low-Profile Bridge Plan -- Bridge #2 B215-13
Public Hearing
Grindstone Creek Trail Phase I
Preliminary Low-Profile Bridge Plan -- Bridge #3  B215-13
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<th>10&quot;-20&quot;</th>
<th>20&quot;+</th>
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Bridge Construction and Installation will require the removal of the following trees:

7-ft of Trail Centerline:
64 trees: 4-20 inches DBH

7-ft to 17-ft from Trail Center:
101 trees (these may or may not have to be removed)
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Tree Count for Violet and Blue Route

Total number of trees that are in a 40-ft buffer from centerline of trail (20-ft each side of trail)

Staff will route trail around larger trees where possible.

Violet Route
85 trees: 4-30 inches DBH

Blue Route
130 trees: 4-30 inches DBH

Note: Most trees in this area will be preserved. This shows max number if 40-ft swath was cleared.
Bridge construction and installation will be done by contract labor.

P&R staff will work with consultants on exact route to avoid desired trees.

Work will be done by existing contractors under P&R direction.
Interested Parties Meeting: August 30, 2012

- Meeting held at Waters-Moss: 63 responses
  Online Survey: 8/31-9/17: 20 responses
- Approve of Grindstone Trail: 55
  - Orange alignment preferred
  - Other alignments due to eminent domain
- Oppose Grindstone Trail: 28
  - Due to eminent domain
  - Generally opposed to trail
  - Opposed to trail citing abundance of trails or too expensive
Commissions were asked to consider deferring funding from Grindstone Trail to other GetAbout trail projects.

- Bike and Ped Commission: No
- Disability Commission: No Action
- Energy & Environment: No
- Parks and Recreation: No

Commissions that voted “no” supported funding the Grindstone Creek Trail as proposed.

Parks & Recreation Commission voted to support Orange and either the Blue or Violet routes.
After bridge designs were completed, a second Interested Party Meeting was held on July 17, 2013. 87 Total Responses. Meeting held at ARC: 73 responses Online Survey: 7/17-7/24: 14 responses

- Approve of Grindstone Trail: 73 approve Grindstone Trail Support Alt Orange and either Blue or Violet Route.

- Oppose Grindstone Trail: 11
  - Trail not needed, too many trails
  - Too expensive
  - Environment damage

- 3 comments on GetAbout Trails
### Public Hearing
Grindstone Creek Trail Phase I
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<table>
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<tr>
<th>Item</th>
<th>Low Range</th>
<th>High Range</th>
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<td>Acquisition: Easements</td>
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<td>10-ft Concrete Trail</td>
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Budget: $1,570,000

If needed, $320k available in Hominy Creek Trail project.

Annual maint estimate: $5,215
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- Concludes Presentation
- Staff is available for questions.