

Open Space Advisory Board

Agenda

Wednesday, April 13th, 2016

6:30 pm –EARLY START at Lake Park Open Space

7:15 pm - Louisville Public Library

1st Floor Meeting Room

951 Spruce Street

- I. **6:30 pm Meet at Lake Park Open Space and Walk South to Walnut Park**
- II. 7:15 pm Call to Order
- III. Roll Call
- IV. Approval of Agenda
- V. Approval of Minutes
- VI. Staff Updates
- VII. Board Updates
- VIII. 7:30 pm Public Comments on Items Not on the Agenda (more time as needed)
- IX. 7:45 pm Discussion Item: OSAB Recommendations on Property Designations for Lake Park Open Space and Walnut Park
- X. 8:30 pm Discussion Item: Trail Updates
 - a. Davidson Mesa National Trails Day Volunteer Project- Presented by Harlan Vitoff, Open Space Technician
 - b. Overlook Underpass Trail- Prepared by Allan Gill, Project Manager
 - c. Dyer Road Trail Connection to US 36 Bikeway- Prepared by Allan Gill, Project Manager
- XI. 9:00 pm Discussion Item: Debrief form Study Session with City Council
- XII. 9:15 pm Discussion Items for Next Meeting on May 11th
 - a. Open Space Operations Budget
- XIII. Adjourn

City of Louisville

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Open Space Advisory Board Meeting Minutes
Wednesday, March 9, 2016
Louisville Public Library: First Floor Meeting Room
951 Spruce Street
7:00 pm

- I. Call to Order-** Helen called the meeting to order at 7:03 pm.
- II. Roll Call-**
Board Members Present: Helen Moshak, Mike Schantz, Christopher Smith, Laura Scott Denton, Linda Smith, Spencer Guthrie, Graeme Patterson, Missy Davis
Board Members Absent: none
City Council Members Present: none
Staff Members Present: Ember Brignull
- III. Approval of Agenda-**
Ember announced that the board would move the agenda discussion item entitled “OSAB Sticker Voting for Favorite Features Commonly Found on Trail Websites and Trail Applications” to a “homework” assignment for the board conducted over email. Spencer moved to approve the agenda with the aforementioned change. Linda seconded. The motion was passed unanimously.
- IV. Approval of Minutes from the February Meeting-**
Mike moved to approve the minutes as written. Linda seconded. The motion was passed unanimously.
- V. Staff Updates-**
- A. Open Space staff are busy gearing up for the summer.
 - B. Ember offered an update on the Open Space ranger position hiring process. There were lots of good candidates who applied for this position. OSAB members Mike and Laura sat in on the interviewing panels. The final interview process involved multiple steps and interviews in person and over the phone. An offer has been made to a candidate and staff is waiting on a final, formal acceptance. The position will start on April 4th.
 - C. Staff is starting work on the CIP processes, so they will meet with Boulder County and other stakeholders for Harney Lastoka CIP. Staff is also doing budget amendments. The City is changing the budgeting process and Ember will update the board when the process is known.
 - D. The Police Department has sent Open Space staff some historical data about their dog off-leash ticketing. Staff is compiling the data to set baseline expectations for the new ranger position.
 - E. There is an RFP out to the public for the aeration project proposal at Helca Lake. Aeration will help keep the lake from freezing over during the winter to provide an all-season refuge for birds.

F. There have been lots of complaints about dogs at Harper Lake, where they are not allowed. Staff will repurpose the coyote sandwich boards to say “no dogs allowed” and put them in the middle of the trail at Harper Lake.

G. There used to be cooper's hawks nesting at the NW corner of the Warembourg property. They have not been there for two years, possibly due to increased social trail usage in the area. Staff would like to add sandwich board signs asking people to stay out of the wooded areas.

H. Staff is still working on a coyote presentation for elementary school assemblies. A school principal has agreed to the presentation and it may happen in April.

I. Staff is preparing projects for the Boulder County Youth Corps. This summer the Youth Corps will do projects for Open Space, Parks, the Rec Center, and the Golf Course.

J. Staff is working on revising the volunteer photo point and vegetation monitoring protocols.

K. Staff is working on summer weed control plans.

L. Staff is working on an interactive map of coyote sightings/encounters for the city webpage.

M. Staff is assessing bench pad cost estimates for memorial benches.

N. Staff will re-map social trails on Louisville Open Space properties.

O. Staff is working with the US 36 design team to plan fencing and gates at the point where the US 36 Bikeway crosses Davidson Mesa. Ember has requested a safety rail for the switchback off the mesa. People have been biking it at night and the curve is sharp and steep.

P. The City has agreed to fund a short trail at Dyer Rd. that will connect to the US 36 bikeway. Helen asked Ember to get information about how it would be funded, feeling it should not be funded with the Open Space and Parks Trust Fund since it will not cross any City of Louisville Open Space or Park property.

Q. There will be a meeting with Boulder County about the trail leading west from the Overlook Underpass. A final alignment and maintenance agreement needs to be hammered out. Helen asked Ember to report to the board about the Dyer Rd. trail and the Overlook Underpass trail at a future meeting.

VI. Board Updates-

A. Mike mentioned that he observed at least 100 brochures from the Highway Overlook kiosk that had blown all over the US 36 Bikeway and the fences at Davidson Mesa. He suggested staff talk to someone about wind proofing that kiosk.

B. Mike saw a code enforcement officer at the Dog Off-Leash Area at Davidson Mesa. The board all agreed that they had never seen Louisville police officers on Open Space property before.

C. Mike counted more dogs illegally off-leash at Davidson Mesa than were in the Dog Off-Leash Area. He opined that Open Space can't get a ranger to enforce the leash regulations fast enough. Helen commented that she sees more dogs off-leash than on-leash at North Open Space.

D. Mike reported that on the “oh-oh-2-7” Facebook page people are complaining about dogs being off-leash, and that a majority of those complaining self-identified as dog-owners. He pointed out that dog leash laws are not a dog-owners vs. non dog-owners issue. Missy asked whether there was any effort to track dog license adherence, since dogs are supposed to be licensed within the City. Ember said that the ranger may

not be able to enforce any of the dog licensing laws, but may be able to issue warnings to that effect.

VII. Public Comments on Items Not on the Agenda-

A. Steve Rasor (409 Majestic View Drive) reported that he went to the McCaslin Small Area Plan meeting. The City staff presented proposals for three separate bike paths going up to Davidson Mesa from the Centennial Valley area and the Damyanovich property. He thought this might be a good chance to change or move the Davidson Mesa Dog Off-Leash Area. He also told the board that he and all his neighbors (eight total names) sent a joint letter to City Council describing their concerns about dust and polluted run-off from the Dog Off-Leash Area onto their properties. Mike asked Mr. Rasor to give OSAB a copy of that letter to be included in this meeting's minutes.

VIII. Discussion Item: OSAB Recommended Open Space Capital Improvement Projects for 2017-2022

The board was given a spreadsheet with proposed CIPs that are currently approved by City Council and funded in the 2016 budget or (planned for) beyond. Yellow-highlighted rows were Open Space projects, blue-highlighted rows were Parks projects. OSAB was asked to rate each of eight projects as high, medium, or low priority. Spencer asked what "low priority" would effectively mean. Ember clarified that a low priority project was more likely to get pushed back a few years, but not necessarily eliminated. The board asked, and had clarified, that these items were already approved to be funded. Helen asked whether the Lastoka Property building Conservation funding was truly optional, and Ember said it wasn't really since there is an IGA agreement with Boulder County already in place.

The board felt that the Open Space Management Plan needs to be re-addressed to make sure it is both updated and actually useful to staff. Mike proposed that the board should have the Management Plan as a discussion item at a future meeting, and having the board members to re-read it and make more specific comments. The board would like to see any revisions "done right" and done in a single year, rather than spaced over two years as described in the spreadsheet. The board ranked the CIPs items as follows:

- A: Lastoka Property (LOW)
- B: Trail Projects (HIGH)
- C: Interpretative Education (HIGH)
- D: Boundary Treatments (MED)
- E: Open Space & Parks Trails/Signs Wayfinding (HIGH)
- F: Open Space Management Plan Review (MED)
- G: Vault Restroom at Aquarius (MED)
- H: Open Space Zoning (MED)

Missy would like to see the goal-setting priorities that the board set in January reflected in these CIP projects. She would like to keep coming back to that document when the board has these kinds of prioritization activities. The Board made a motion to add a Resource Management project involving property assessment and the collection of baseline ecological data (details to be determined). The board passed this motion unanimously.

IX. Discussion Item: Create a Draft Council Communication for the City Council Study Session on Tuesday, April 12th from 6:30-8:30.

City Council scheduled a study session with OSAB and other advisory boards for April 12th. They sent each board a list of discussion questions to answer to help foster conversation. Helen went through the Council's communication with the board. Helen said that she would use the board's previously-generated lists to answer questions #1 and #2 and opened discussion for the rest of the questions. Christopher commented that term limits are "good government," as they bring new ideas and give more people have the chance to serve. He suggested six years as an optimal maximum. The board observed that there don't seem to be very many people who are not reappointed by Council when their appointments are up for review, meaning that currently people generally serve as long as they wish. Most of the board felt like term limits might be a good idea, but thought that it took a few years to get optimally productive, so any term limit should be long enough to let people gain the relevant expertise.

The board suggested two questions to put to City Council. The first was to ask if the City is moving towards a more proactive and systematic Open Space Land acquisition process. The board would like to attach Missy's acquisition memo to this document, so Council can see it again. The second question was to ask if Council would oppose OSAB working with the new Parks board (PPLAB) on dog issues, as they seem to be an important, complex, and recurring City issue.

The document needs to be submitted to Council by April 5, so Helen will fill out the document by the end of next week and send it to board members for review over email.

X. Discussion Item: OSAB Recommendation for Davidson Mesa Parking Lot Surfacing Alternatives

Staff had prepared a spreadsheet showing costs of different surfacing alternatives for remediation of the dust problem at the Davidson Mesa Parking Lot. Mr. Steve Razor began the discussion by showing a recent video he took from his property adjacent to Davidson Mesa. It showed of a steady stream of dust being blown off the Davidson Mesa Dog Off-Leash Area. It was the board's observation that the dust didn't come off crusher fine trails, or normally-vegetated areas, just in the denuded, worn-down, de-vegetated areas of the Dog Off-Leash Area. Mr. Razor remarked that whether or not there is remediation done on the parking lot, the Dog Off-Leash Area will still produce lots of dust, and that dust is potentially contaminated by dog waste. The board discussed the irony of dogs not being allowed at Harper Lake due to water contamination fears, when contaminated dust from the Dog Off-Leash Area constantly blows into it.

Helen got clarification that the \$25,000 quoted for the "soil stabilizer" option includes an initial professionally-done surface "regrade," but then the product itself would be about \$500-1000 per year for subsequent applications. Ember said that the manufacturer suggested a twice-yearly application. Linda asked what was done wrong when the parking lot was built that makes it function improperly. Ember answered that the initial problem was that a concrete ring around the center of the lot (the vegetated island) that blocked the central drainage. Staff recently added cuts in the ring and 4 french drains. Upon reviewing the options listed in the packet, Graeme commented that the "high" current annual maintenance costs that were mentioned during the previous meeting were only about \$500/year, which doesn't seem so onerous compared to the cost of the remediation options. Mike and Laura both suggested that the soil stabilizer option, combined with a system of better, more aggressive closures during adverse conditions, should be tried before paving the lot, for reasons both aesthetic and economical. Missy wanted to go further and make a statement that the OSAB opposes

paving. The board's made a motion to oppose paving with concrete or asphalt, but to try the stabilizing soil solution first, along with a more aggressive closing strategy, directing people to park at the paved Harper Lake parking lot and use the underpass when conditions are bad. Mr. Razor observed that even in good conditions, people park illegally at Davidson Mesa all the time. The board hoped that the new Open Space Ranger could help with parking closures.

XI. Discussion Item: OSAB Sticker Voting for Favorite Features Commonly Found on Trail Websites and Trail Applications

(postponed)

XII. Discussion Item: Possible Dates & Discussion Items for Joint Meeting with Parks and Public Landscapes Advisory Boards in April.

Currently the new Parks board (PPLAB) wants to push a joint meeting to August. They are busy working on their new bylaws, etc.

There are two city properties that may be designated improperly. The first is Walnut Park, which is managed as an Open Space, but currently zoned as a Park. It may be better zoned as Open Space. Missy observed that she has seen owls nesting there and feeding in the field.

The second property is Lake Park, which is designated as Open Space. Some citizen groups are hoping to have it change to a more park-like environment, including irrigated lawns, whereas other citizens want it to retain as natural an environment as possible. Re-zoning Lake Park as a Park would require a vote by citizens, according to the town charter. Helen asked Ember to present the arguments from the pro-park groups so the board can understand their concerns. The board planned to meet at Lake Park at 6:30 before the April meeting so that the board can visit both properties before discussing them at the April meeting.

XIII. Discussion Item: Revisions & Recommendations for the Draft Harper Lake Interpretive Education Sign

Staff would like to create a permanent sign for the kiosk at Harper Lake. The plan is to have rules & regulations, geographic, and ecological information on the front, and historical information on the reverse. This is the logic behind the kiosk at Davidson Mesa. Currently there is a temporary sign at Harper Lake, designed by staff with input from OSAB. Ember presented a draft of the proposed historical sign. Catherine made the sign, and Bridget from the Louisville Historical Museum provided the historic background and revisions to historic content.

The board called out various comments on the sign. The historical chronology is out of order. Too many words—Missy suggested a 100-500 word limit. Focused too much on the Harper Family. Too many border lines, the borders are strangely arranged in general. Laura didn't like the font. Helen wanted the history to start before European settlers. Laura didn't like using an outdated aerial photo as the backdrop to the mine location map; she wanted a modern photo so people can orient themselves to the historical mine. Missy didn't like the look of the timeline. Laura suggested it could be expanded to be a geological and pre-historical timeline to make it more interesting. Laura thought that the coal-specific history was probably redundant to information on signs in other location. The board liked the Davidson Mesa sign (which was professionally designed). Too many non-specific photos. Missy wanted to see more water-themed information that ties into the theme of the Lake-to-Lake Trail, including focusing on aquatic wildlife on the front. The board wants to see the sign adhere to the

Wayfinding's design standards. Missy didn't like the City of Louisville button and wants it to conform to the current style. Missy didn't like the tax line. The board liked the idea of crediting the Open Space and Parks Fund Tax on the sign, but wanted it phrased better and tighter. Helen commented that she liked the tax attribution statements on the Jefferson County Open Space signs. The board would like to see another draft of both signs for comment before they become permanent. The board would like to see this work contracted out and completed by experts.

VIII. Discussions Items for Next Meeting on April 13th-

A. Trails update -New trails associated with the Overlook Underpass and Dyer Road. Volunteer project in the NW corner of Davidson Mesa.

B. 6:30 OSAB walk at Lake Park and Walnut Park.

C. Review the City Council study session that will have happened the night before.

IX. Adjourn-

The meeting adjourned at 9:53 pm.

445, 439, 419, and 409 Majestic View Drive
Boulder County, Colorado 80303

February 5, 2016

Dear Council Member Stolzmann,

We are writing to ask you to support moving the Dog Off-Leash Area (DOLA) on Davidson Mesa. A site that is farther away from residential property lines and offers a dense vegetative buffer, berm, or opaque fencing may eliminate neighbor conflicts (several internet sources for 'dog park best practices'). We own homes that share a common property line with or are very close to the northern boundary of the DOLA. We have communicated with Bob Muckle and many others over the years and conferred with Joe Stevens and the Open Space Advisory Board.

We remain deeply concerned about the following impacts of the DOLA in its current location:

- Storm water containing years of accumulated dog waste washes off onto our properties and surrounds our wells, threatening our water quality with diseases borne by excrement (giardia, crypto, etc.).
- Storm water runoff also contains soil that is contaminated with fecal-borne parasites (hookworm, etc.) threatening anyone who walks or works in two of our yards without protective clothing, gloves, and closed shoes.
- Barking dogs and their yelling owners disturb the quality of our lives. Many days the noise is incessant and interferes with sleep and conversation.
- All of the ground-nesting birds and virtually all other wildlife have fled the DOLA.
- Rather than the spectacular grassland, peace and beauty, and wildlife viewing opportunities that attract us and others to Davidson Mesa, the DOLA's noisy, denuded, dusty or muddy wasteland greets us daily.

Perhaps the DOLA's users may find a change that saves open space acceptable if a new location is found with similar qualities that provides amenities they have requested. Please support the OSAB in its efforts to find a more suitable DOLA. The DOLA's designated trails could then be returned to all on-trail users allowing the currently trampled, eroded, off-trail areas to recover. Seeding with drought resistant native grasses, a little luck, and patience could return the area to its previous splendor, prevent further erosion, and absorb and filter storm water and sediment runoff.

We applaud the Public Involvement section of the recently published Open Government Pamphlet. We would have greatly appreciated a chance to have our voices heard had this policy been in effect when the DOLA was conceived, realigned, and enlarged. Outreach to us, the DOLA's closest neighbors, never occurred. Thank you so much for your valuable time and for considering our heartfelt request.

Yours sincerely,

Marc and Souda Bell

Eric and Miriam McCarty

Steve and Joy Rasor

Marvin and Fiona Caruthers

OSAB 2017 CIP RECOMMENDATIONS - PLANNING WORKSHEET

OSAB (High, Medium, Low)	ID	Pg. #	Potential 2016 CIP Projects	Brief Description
L	A	10	Lastoka Property Conservation	Harney Lastoka: preservation of existing farm buildings, CSA, interpretive education trail, water delivery, community gardens
H	B	14-15	Trail Projects	Does not include "Wayfinding" primary trails. These trails are mostly neighborhood or regional trails connections
H	C	16	Interpretive Education	Development, fabrication and installation of environmental/historic information displayed on kiosks, pedestals etc.
M	D	17	Boundary Treatments	Tasks related to identification of Open Space property boundaries. Examples: surveys, fencing, gates, bollards, signs etc.
H	E	22-23	Open Space & Parks Trails/Signs Wayfinding	Fabrication and installation of wayfinding signage & construction of primary trail improvements throughout the City
M	F	24	Open Space Management Plan	Updating the 2004 Open Space Master Plan to include new properties and update vision/management objectives by property
M	G	25	Vault Restroom	Vault restroom at Aquarius parking lot (to match Harper Lake vault restroom)
M	H	26	Open Space Zoning	Complete research necessary to include OS properties into the Open Space Zone District per the Home Rule Charter
OSAB (High, Medium, Low)	ID	Pg. #	OSAB Recommendations	Brief Description
H	I		Resource Management Assessment	Resource Baseline Monitoring, What do we have?
	J			
	K			
	L			
	M			
	N			
	O			
	P			
	Q			

Memorandum

To: Open Space Advisory Board
From: Ember Brignull, Open Space Manager
Date: April 13th 2016
Re: Lake Park Open Space Classification and Designation

Current Concern

The City has received citizen concerns related to the management of this property. While some citizens would prefer that the property be maintained as a Park, others prefer that it be maintained as an Open Space. Opinions on weed control, herbicide use, mowing practices, pond management and general upkeep vary.

What follows is a brief overview of the property classification and designation, past maintenance and management practices and our understanding of the steps necessary to change the classification and/or designation of this property. The City Attorney has been asked to opine on whether Lake Park is a park or open space.

Property Classification and Designation

All three adopted Master Plans designate Lake Park Open Space as an open space property.

Below are details from each plan:

- 1) The April 1995, City of Louisville Open Space Master Plan designated Lake Park as open space. The document states that “the areas designated as open space are primarily left in their native state”. While the 1995 plan does not identify property specific maintenance standards, it does include a description of general maintenance standards. These maintenance standards are divided into two categories: Mode V: defined as high visitation natural areas- usually associated with large urban or regional parks and; Mode VI: defined as minimum maintenance level- low visitation natural areas or large urban parks that are undeveloped.

Below are specific maintenance standards as defined by each maintenance category:

Turf Care

- Mode V: Normally not mowed but grassed parking lots, approaches to buildings or road shoulders, may be cut to reduce fire danger. Weed control on noxious weeds
- Mode VI: Not mowed. Weed control only if legal requirements demand it

Floral Planting

- Mode V: None introduced except at special locations such as interpretive buildings, headquarters, etc. Once per week service on these designs. Flowering trees and shrubs, wildflowers, present but demand no regular maintenance
- Mode VI: None

Irrigation

- Mode V & Mode VI: None

Pruning

- Mode V & Mode VI: Only done for safety

2) The January 2004, City of Louisville Open Space Master Plan designated Lake Park as open space. In this document, Lake Park Open Space was classified as ‘visitor’ “since it serves the community more as an urban park than an open space parcel”. The ‘visitor’ classification is defined as follows:

- Land under this classification shall be characterized by a lower level of relative ecological importance with higher levels of habitat fragmentation.
- Open space—visitor land shall be managed so that recreational opportunities are designed to encourage resource protection with minimal landscaping using native plants and limited irrigation.
- Moderate to high levels of visitation may be permitted in this classification.

The master plan identified the long range goal for Lake Park as continuing the property’s current management and exploring future potential benefits of reclassifying the property as a park.

At the time of the master plan, the following conditions and observations were made which highlight the continued mixed-management of the property:

- Vegetative Communities-Lake Park is considered to be more like an urban landscaped park than a native open space habitat. Most of it is Kentucky bluegrass (*Poa pratensis*) and cultivated tree varieties. It would be difficult to manage this area as a native landscape.
- Ecosystem Restoration and Enhancement-It may become appropriate to improve the surrounding lake for waterfowl. The Kentucky bluegrass and other introduced landscape species that were intentionally planted on this site make it incompatible with normal “open space” values. This urban –like park will probably remain in its current condition.

3) The February 2012, Parks, Recreation, Open Space, and Trails Comprehensive Master Plan designated Lake Park as an open space in the Systems Map. The plan indicates that property specific management plans for all properties should be updated but no specific property recommendations are made.

Past Maintenance & Management Practices

The property was purchased in 1974 and has been managed and maintained by the Parks Division. Over the years, changes in maintenance practices have reflected citizen input, budget restrictions and best management practices.

In the past, the entire property was mowed every other week. However, since 2006 the mowing has been significantly reduced to include only the trail corridor and some “curb appeal” areas. From 2010 to 2014 the amount of “curb appeal” mowing fluctuated. Currently, approximately two thirds of the property is mowed every other week and include the trail corridor and “curb appeal” areas.

The irrigation system to the landscape beds was initially installed to establish turf and plant material and was inoperable up until two years ago. Following the 2012 drought, and with the addition of an irrigation technician, the system was repaired and placed back on line.

Steps Necessary to Change Property Classification and Designation

The legal procedures listed below are currently under review by the City Attorney for clarification and interpretation. As the City moves forward with this discussion the appropriate legal process will be reviewed and clarified by the City Attorney.

- 1) Steps necessary to re-classify from Open Space ‘Visitor’ to Open Space ‘Other’:
Per the Home Rule Charter (Section 15-4) Once placed into one of the classifications described in Subsection (b), no open space shall be placed into a less protected classification except by an ordinance approved by at least two-thirds (2/3) of the entire City Council. Before approving any such ordinance, the Council shall consider any recommendations of the Open Space Advisory Board provided within thirty (30) days after the Councils request for such recommendations. Such an ordinance shall be subject to the rights of initiative and referendum in the manner set forth in Article 7 of this Charter, whether or not the ordinance is legislative in character.

- 2) Steps necessary to re-designate from Open Space to Park:
Per the Home Rule Charter this would be classified as an Open Space- Transfer of Interest (Section 15-6):
 - (a) Except as provided in Subsection (b), the approval of the registered electors shall be required for:
 - (1) The sale, lease, trade, or other transfer or conveyance of any open space land; or
 - (2) The grant of a license or easement to use any open space land.
 - (b) No approval of the registered electors shall be required for:
 - (1) The grant of a lease for agricultural uses on open space land, but only to permit the continuation of agricultural uses that existed prior to the City's acquisition of the land;

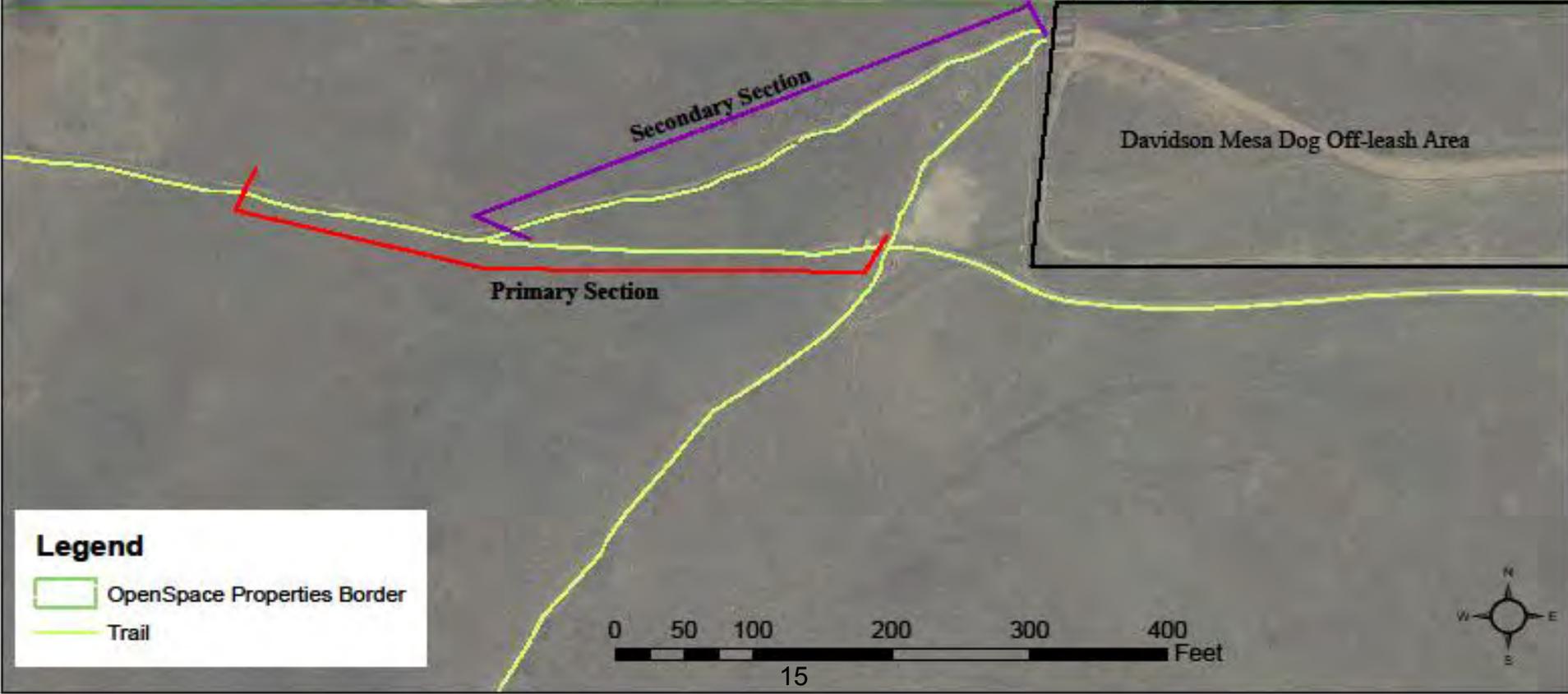
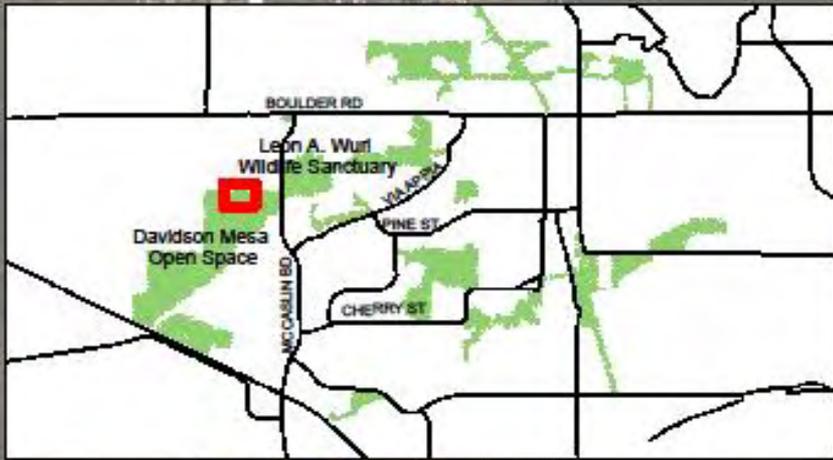
(2) The grant of a non-exclusive license, easement, or permit for the undergrounding of utilities on open space land. The grantee of the license or easement shall restore all disturbances to the land resulting from the grantee's activities; or

(3) The transfer of any property interest in or relating to open space land that substantially and directly advances the open space goals set forth in Section 15-1, by an ordinance approved by at least two-thirds (2/3) of the entire City Council following favorable recommendation by the Open Space Advisory Board. Such an ordinance shall be subject to the rights of initiative and referendum in the manner set forth in Article 7 of this Charter, whether or not the ordinance is legislative in character.

2016 National Trails Day

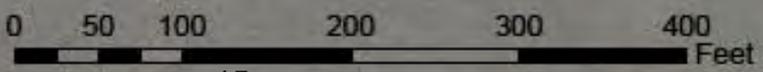
June 11th 8 am – 12 pm

Davidson Mesa Open Space



Legend

- OpenSpace Properties Border
- Trail









03.22.2016





03.22.2016



03.22.2016



03.22.2016

Current Trail Statistics

Primary Trail

- Length = 490 feet
- Average Width = 27.5 inches
 - Max Width = 64 inches
- Average Depth = 3.79 inches
 - Max depth = 10 inches
- Average Slope = 15 percent

Secondary Trail

- Length = 435 feet
- Average Width = 36.1 inches
 - Max Width = 44 inches
- Average Depth = 4.6 inches
 - Max Depth = 9 inches
- Average Slope = 8.7 percent

Repair Goals

- Reduce Water Retention
 - Fill eroded trail with topsoil
- Create Water Outflow Locations
 - Add water bars
- Create Smooth Trail Tread

Types of Water Bars

Earthen Berm (currently used)



<http://reagangirl.com/>

Rock



<http://reagangirl.com/>

Types of Water Bars

Log



<http://thepetroglyph.com/blm-destroys-the-recapture-trail/>

Rubber Belt



<http://www.inwoodlands.org/water-bar-for-continuous-use-r/>

Materials Needed

- Primary Trail
 - 17 tons topsoil
 - 5 water bars
 - Log recommended
- Secondary Trail
 - 20 tons topsoil
 - 4 grade dips
 - Earthen berm recommended

2016 National Trails Day Project



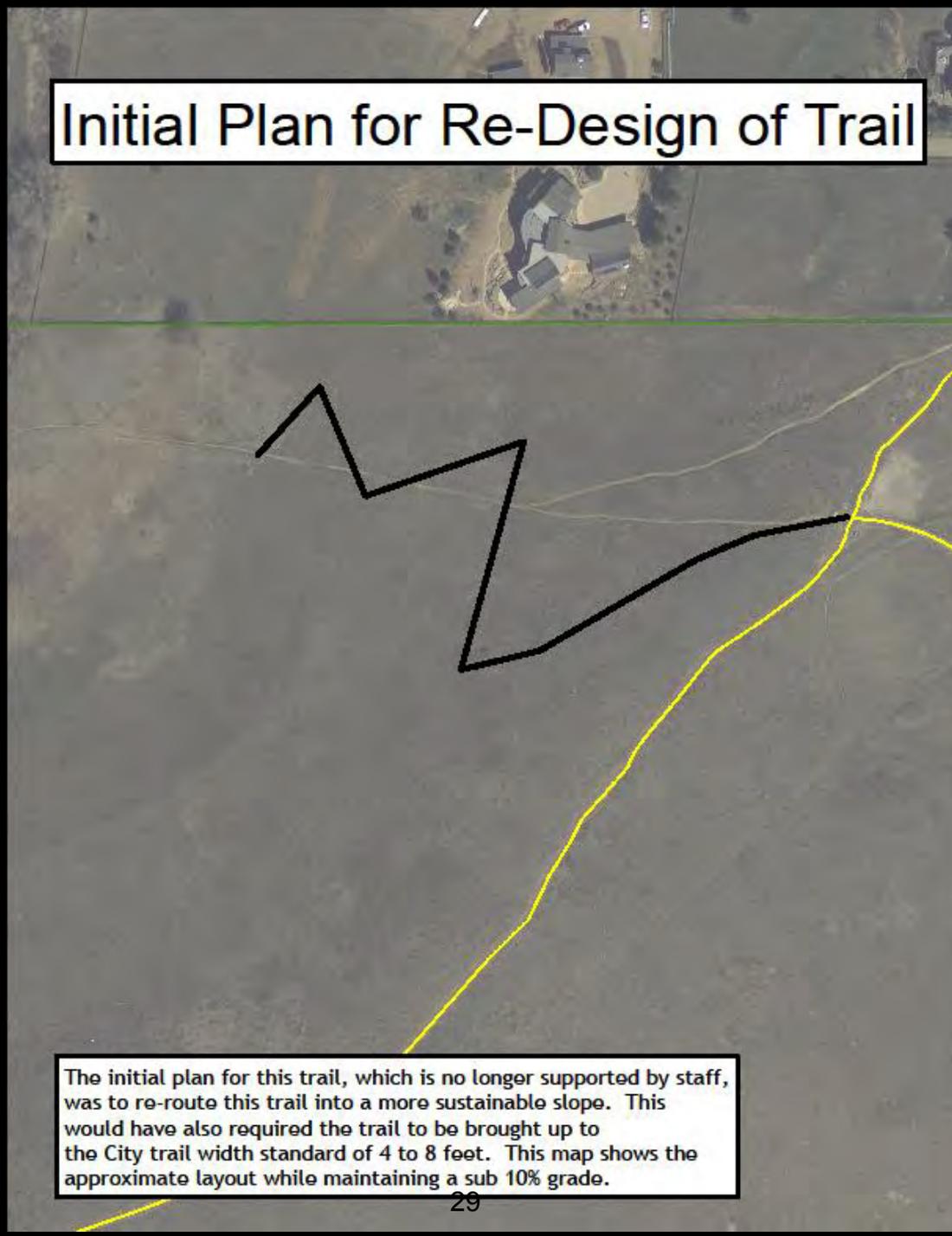
Legend

- Topsoil Pile
- Water Bar
- Earthen Berm

0 50 100 200 Feet



Initial Plan for Re-Design of Trail



The initial plan for this trail, which is no longer supported by staff, was to re-route this trail into a more sustainable slope. This would have also required the trail to be brought up to the City trail width standard of 4 to 8 feet. This map shows the approximate layout while maintaining a sub 10% grade.

Memorandum

To: Joe Stevens, Director of Parks and Recreation
From: Allan Gill, RLA, Park's Project Manager
Date: March 28, 2016
Re: Dyer Road to US 36 Bikeway Connection, Information / Status Update

Project Summary: Design of an approximately 600-foot long, 10-foot wide concrete multi-use path between Dyer Road and the US 36 Bikeway. The connection will enhance bicycle and pedestrian connectivity and provide maintenance and emergency vehicle access.

To Date:

- Boulder County has put out an RFP and entered into an agreement with Lorris and Associates, Inc. for design services for the Dyer Road to US 36 Bikeway Connection in the amount of \$21,118.
- The City of Louisville has partnered with Boulder County on the project and will be responsible for half of the design costs.
- On March 3, 2016 a kick-off meeting and site visit were conducted with Lorris and Associates, Boulder County and the City of Louisville.

Schedule:

- 60% Design review by early May.
- 100% Design complete by end of June, 2016.

Construction:

- CDOT permitting will be required and may impact schedule.
- Construction costs are estimated to be \$100,000; however costs have recently risen sharply. and a new cost estimate may be needed before commencing construction.

See Attached Dyer Road Trail Connection Map



Dyer Road
US36 Bikeway Connection

