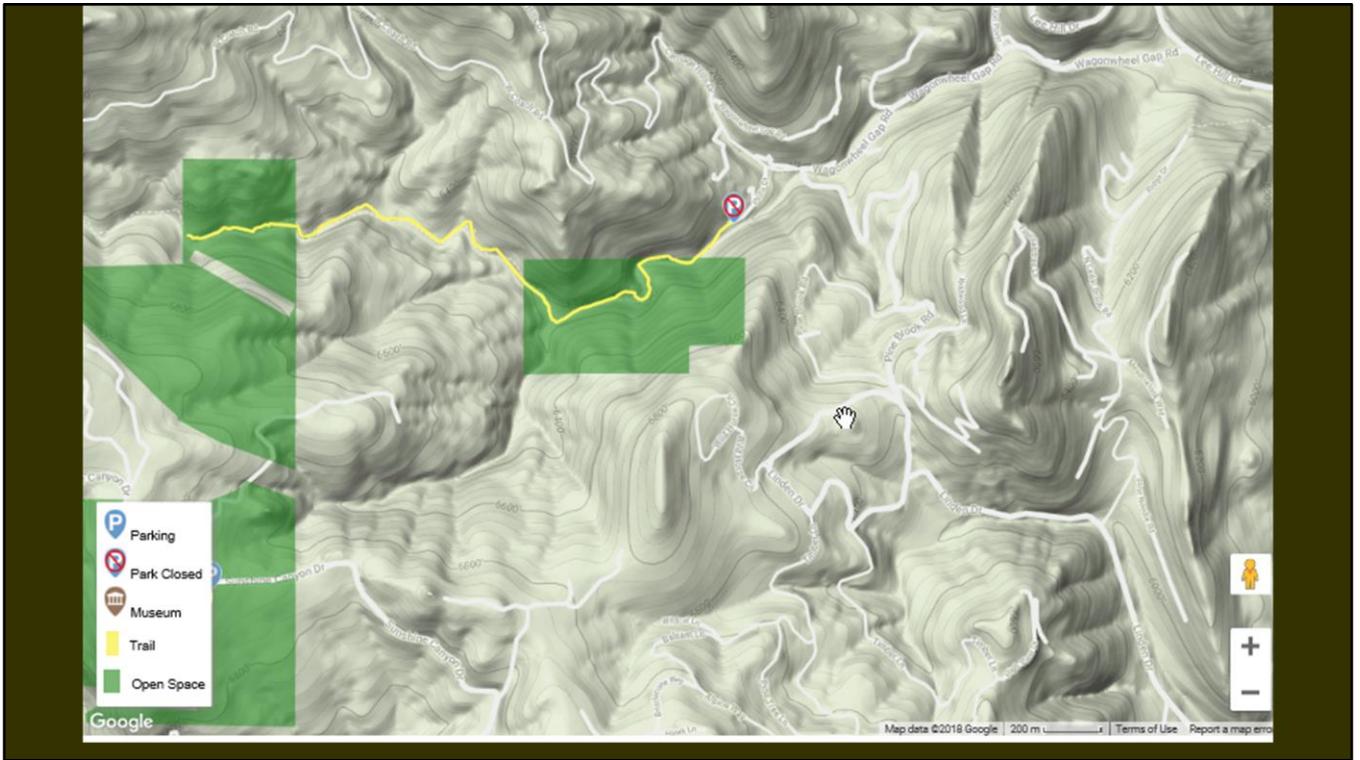


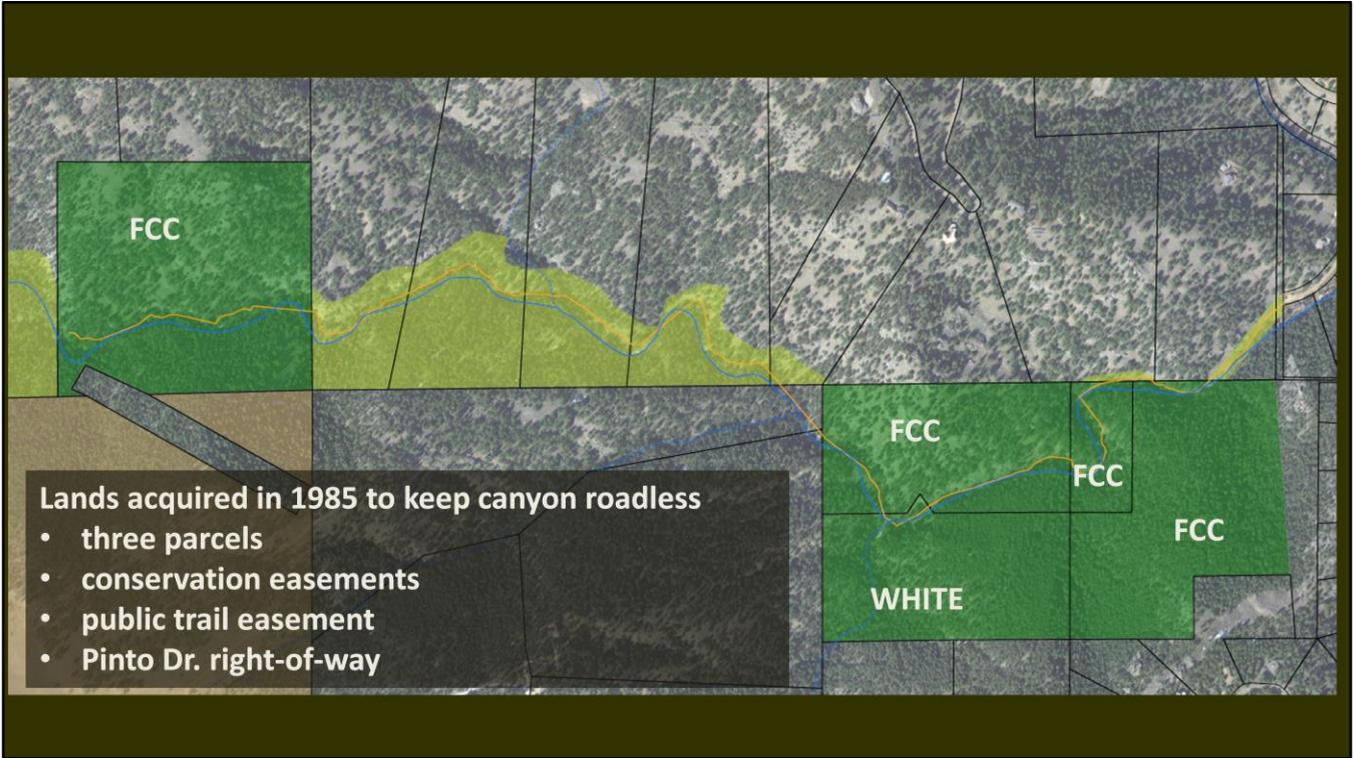
# Anne U White Trail Parking Expansion







- Trail length:
  - 1.75 miles, one-way
- Average length of visit:
  - about 2 hours



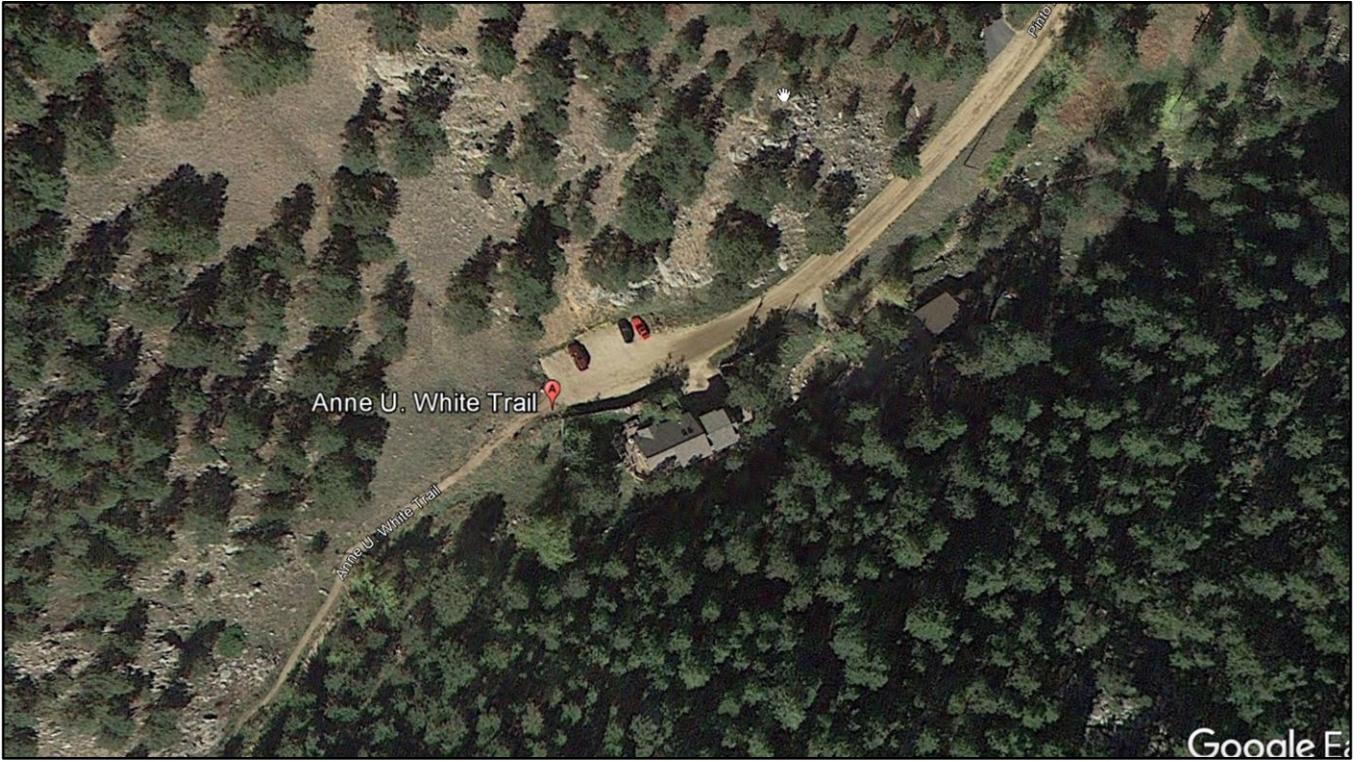
**Lands acquired in 1985 to keep canyon roadless**

- three parcels
- conservation easements
- public trail easement
- Pinto Dr. right-of-way

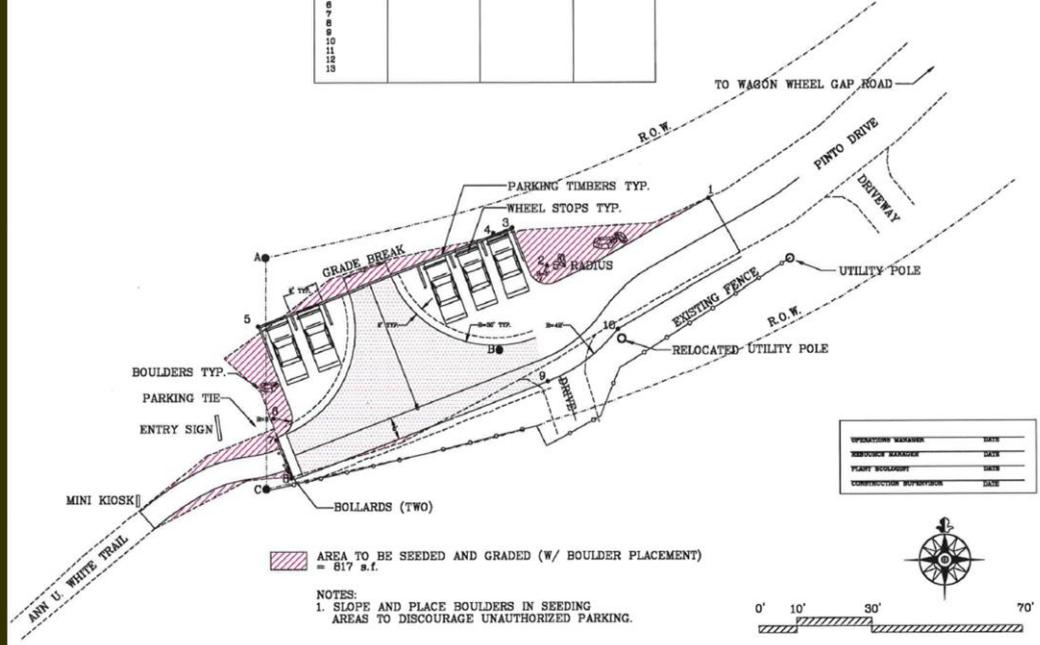








POINT #	POINT A	POINT B	POINT C
1		68.6'	
2	119'	53.7'	
3	74.9'	32.6'	
4	66.1'		
5		64.4'	43.4'
6			
7			
8			
9			
10			
11			
12			
13			



AREA TO BE SEEDED AND GRADED (W/ BOULDER PLACEMENT)  
= 817 s.f.

NOTES:  
1. SLOPE AND PLACE BOULDERS IN SEEDING  
AREAS TO DISCOURAGE UNAUTHORIZED PARKING.



Boulder County  
Courtroom Annex  
2545 12th Street  
Boulder  
Colorado 80503  
40-007  
Professional

The  
**Anne U. White**  
OPEN SPACE  
Layout Plan

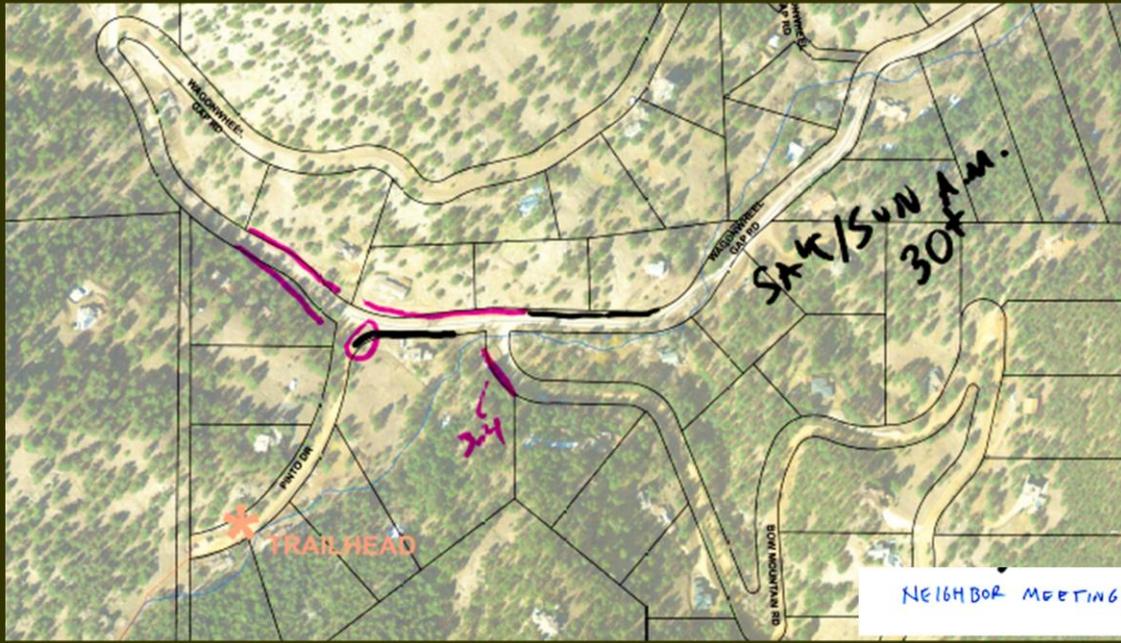
OPERATIONS MAINTENANCE	DATE
INSPECTOR APPROVED	DATE
PLANNING BOARD	DATE
CONSTRUCTION SUPERVISOR	DATE

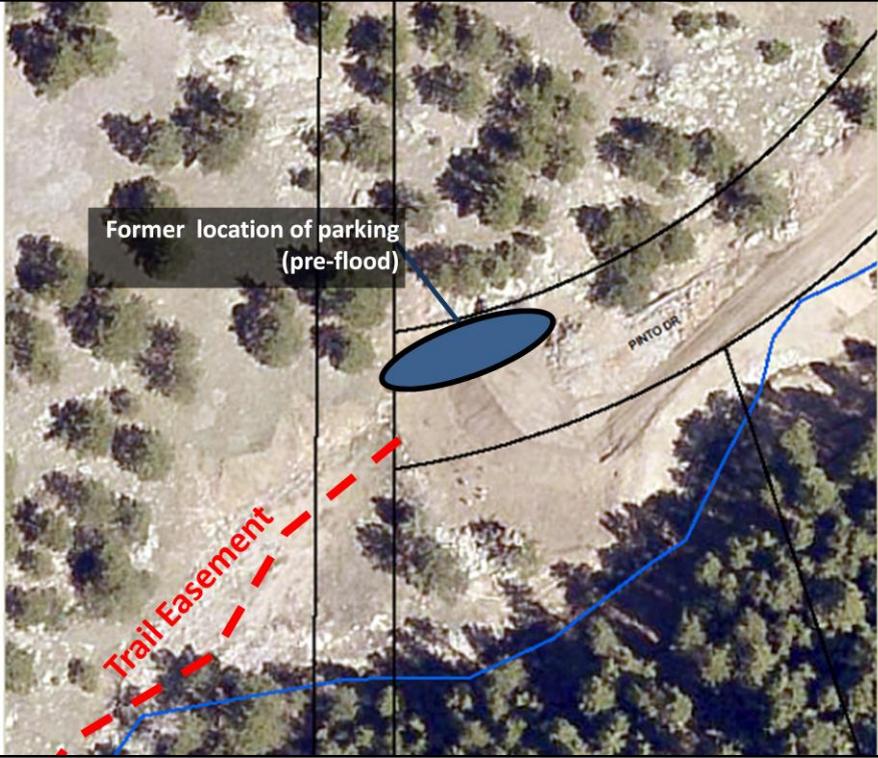
DATE: AUG. 25, 1988  
DRAWN BY: S.A.P.  
CHECKED BY: S.A.P.  
SCALE: 1"=40'-0"  
NO. FOR PARKING SIGN

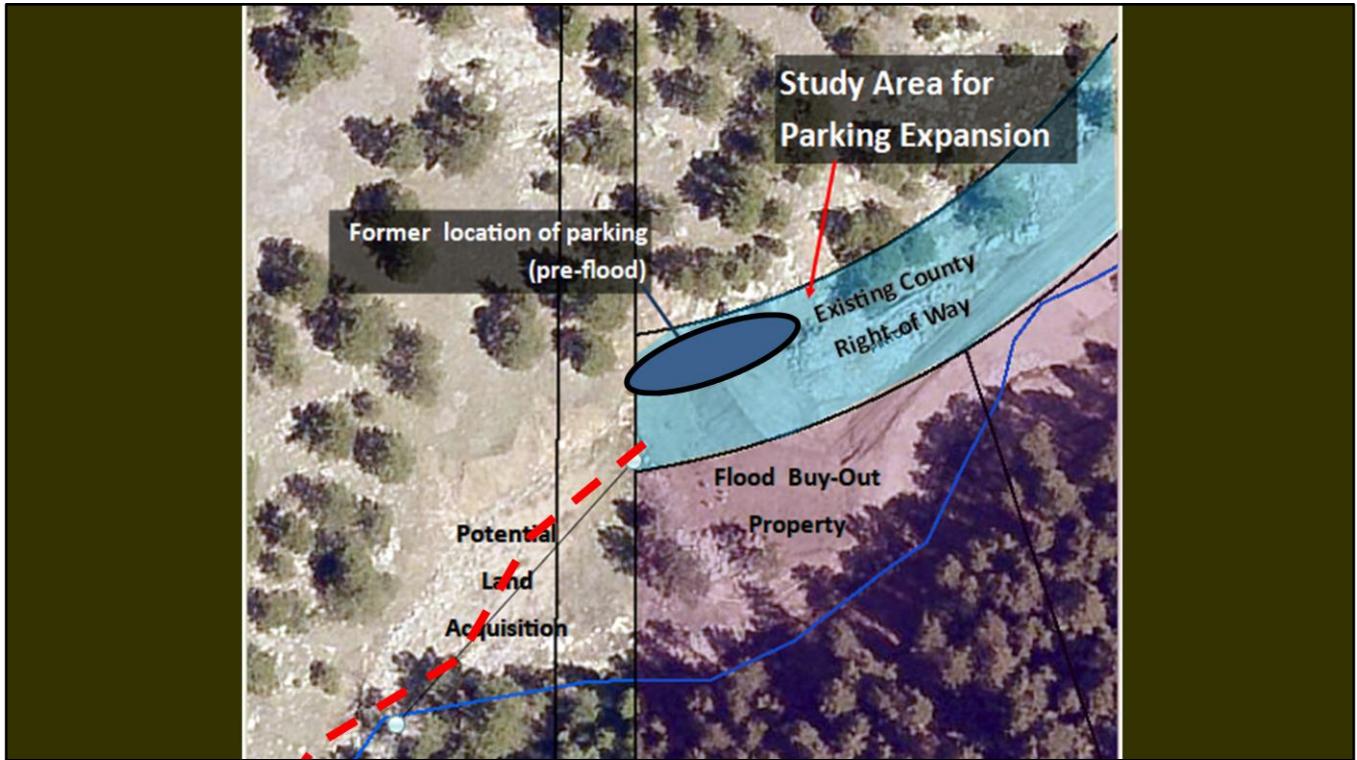
LP.1

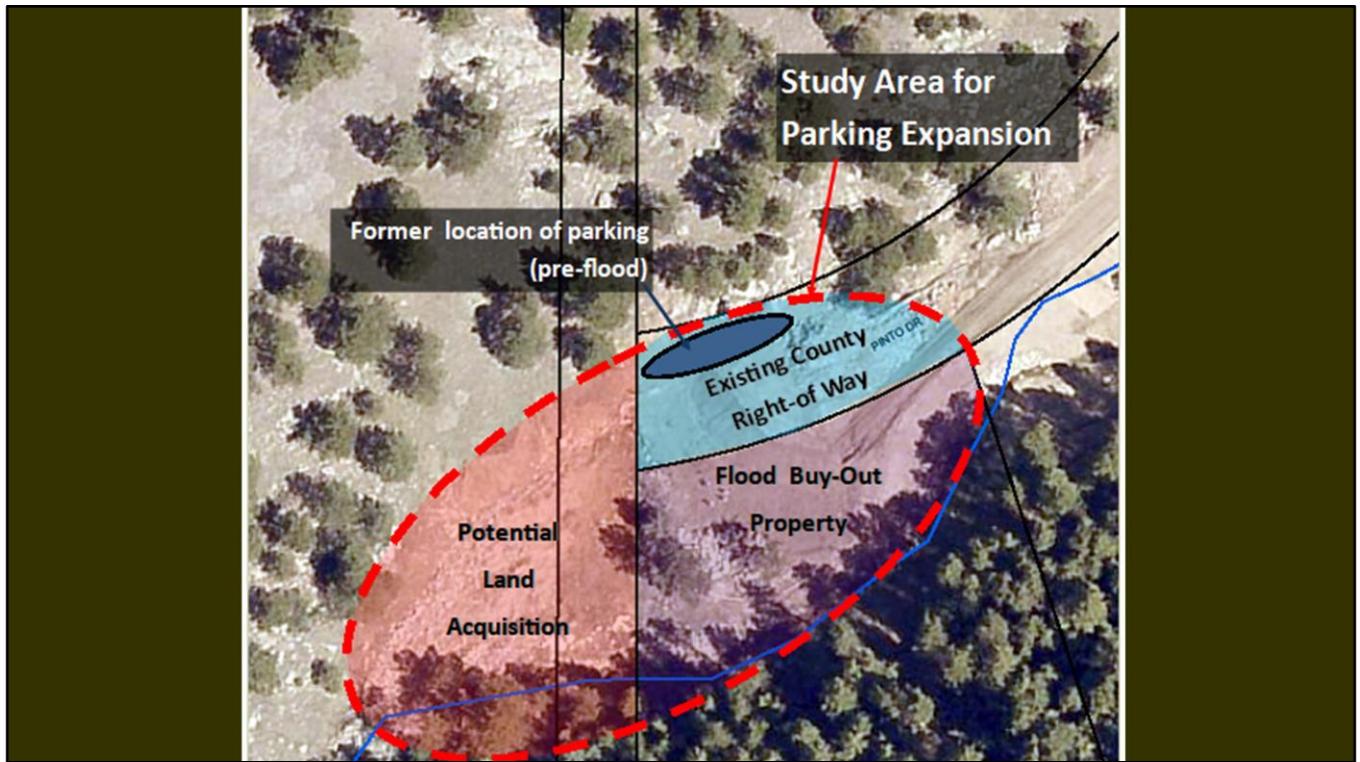


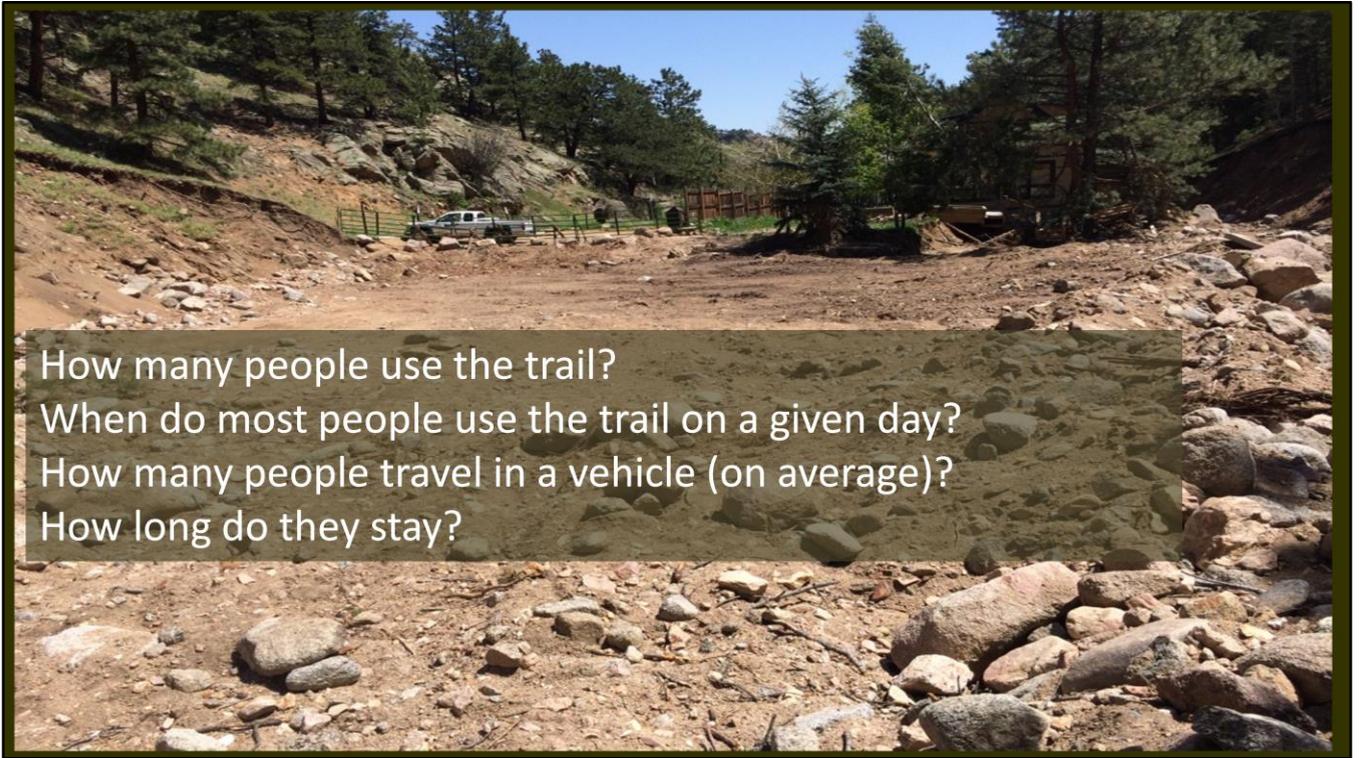
# Parking on Wagonwheel Gap Rd.









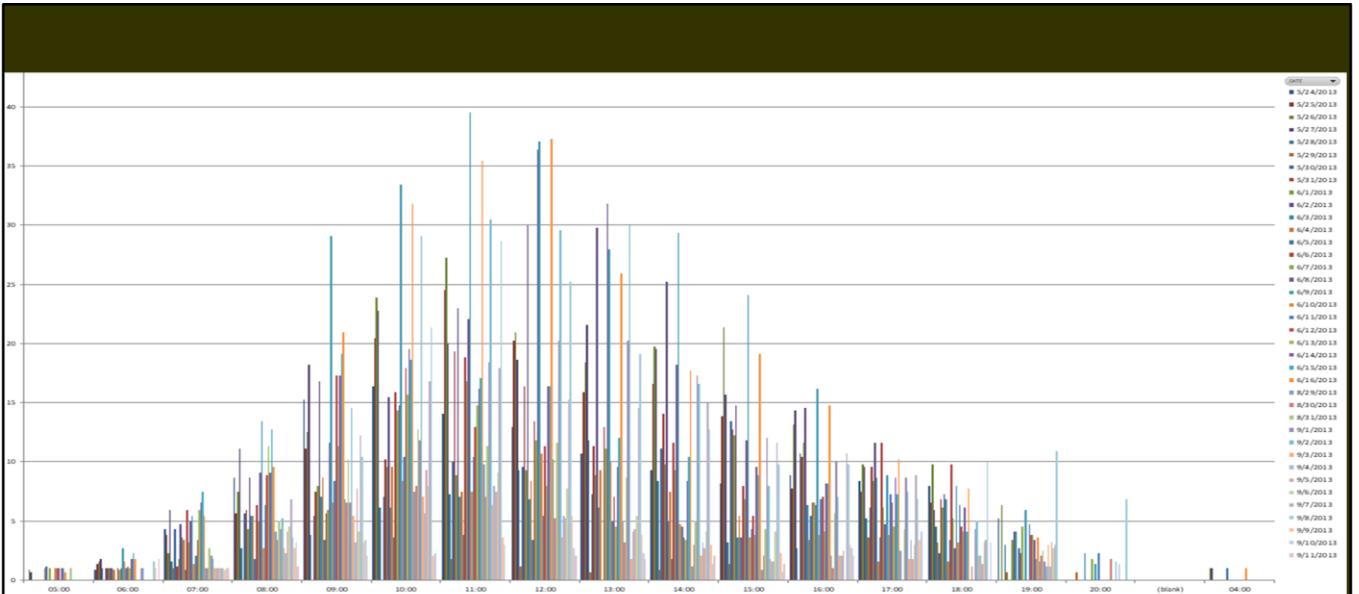


How many people use the trail?  
When do most people use the trail on a given day?  
How many people travel in a vehicle (on average)?  
How long do they stay?

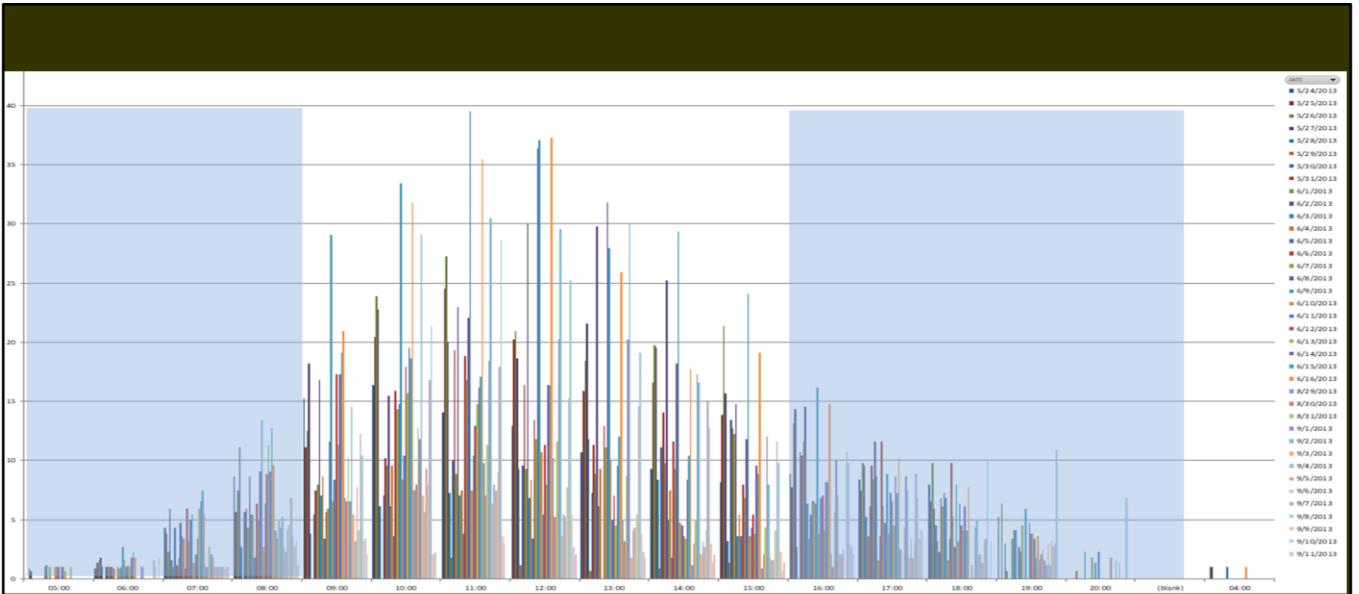
# Visitor Studies

PROPERTY	Winter	Spring	Summer	Fall	Total 2012	Total 2011	Standard Vehicle Parking
Anne U. White	2,257	15,691	8,722	8,101	34,771	27,296	5
Betasso Preserve	3,314	25,909	29,732	18,690	77,645	49,353	35
Mpd Lake	11,384	23,104	24,226	8,087	66,800	62,820	35
Pella Crossing	14,731	25,478	24,709	21,924	86,842	79,750	42
Walden Ponds (2)	18,415	30,300	25,766	20,785	95,266	92,622	51
Heil Valley Ranch	8,610	25,551	20,354	8,832	63,347	63,272	60
Lagerman Reservoir	6,468	9,440	6,073	6,350	28,330	26,120	27
Rabbit Mountain	11,314	11,266	8,973	12,485	44,038	36,578	34
Hall Ranch	8,594	20,370	14,248	14,309	57,521	55,559	64
Walker Ranch- Loop Trail	9,000	10,192	9,754	7,495	36,441	46,477	52
<b>SUBTOTAL</b>	<b>139,278</b>	<b>263,171</b>	<b>244,321</b>	<b>194,314</b>	<b>841,085</b>	<b>773,961</b>	

2010 Visitor Study	Top 5 "One Improvement" Comments	# of Comments
Anne U. White Trail (110 respondents in 2010) (95% arrived by car; avg 2.2 per car)	Improved Parking	43
	Nothing/Perfect	17
	Remove Poison Ivy	12
	Longer/More Trail(s)	6
	Add Bathroom	5



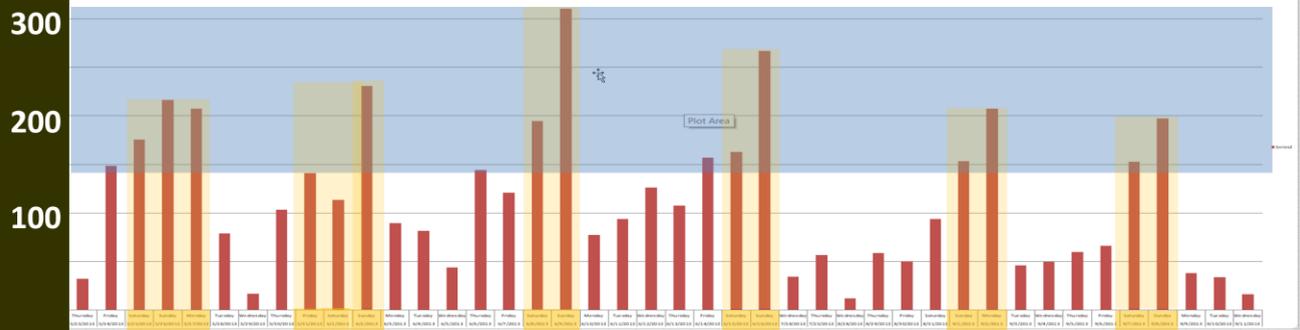
Collected reliable data on 38 days between 5/24/2013 and 9/11/2013



Peak visitation = 9:00 a.m. and 3:00 p.m.

Weekday vs. weekend differences

## DAILY VISITATION



How many people visit the trail? **On busy weekends, between 150 and 300 visitors**

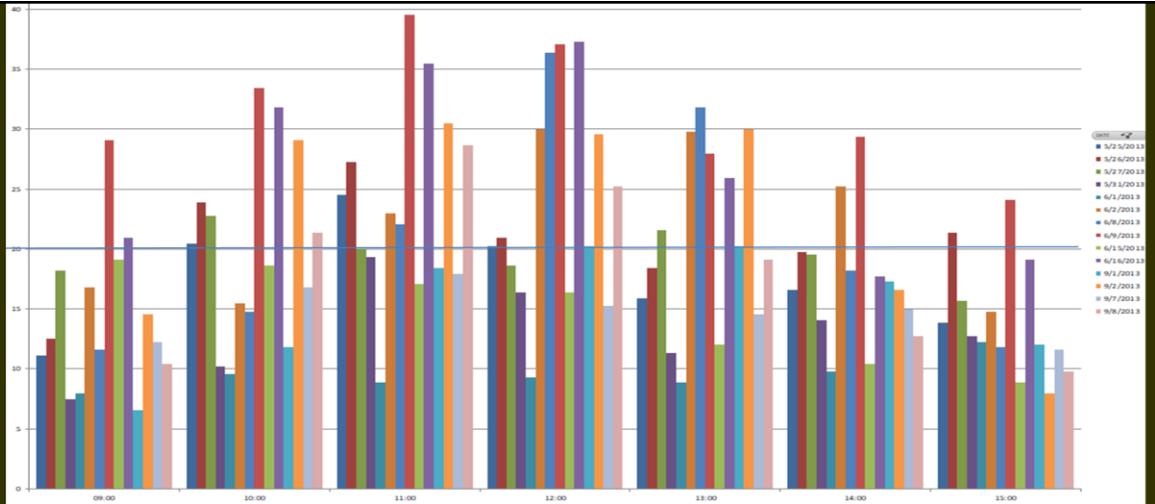
When do most people use the trail on a given day? **Between 9 a.m. and 3 p.m.**

How many people are in a vehicle (on average)? **2.2 passenger/ vehicle**

How long are they staying? **About 2 hours**

**BUSY WEEKENDS = PEAK VISITATION**

20 cars

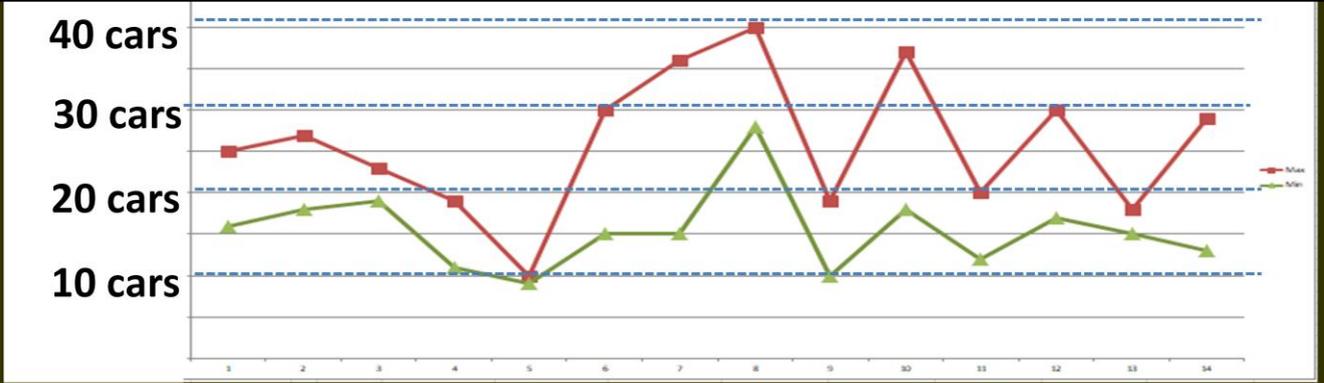


Looked at 6 weekends including Memorial Day (5/27) and Labor Day (9/2) for a total of 14 days

Peak visitation = 9:00 a.m. and 3:00 p.m.

Parking demand ranged from 7 to 40 vehicles

Much of the time, the demand was for 20 cars or fewer



Daily minimum and maximum demand on each of the 14 study days

12 of 14 days had minimum demand between 10 and 20 vehicles (9 and 27 vehicles )

3 of 14 days had max demand above 30 vehicles (36, 37, and 40 vehicles)

In other words with 20 car lot – 5 of the 14 days would have had sufficient capacity (36%)

25 car lot - 7 of the 14 days would have had sufficient capacity (50%)

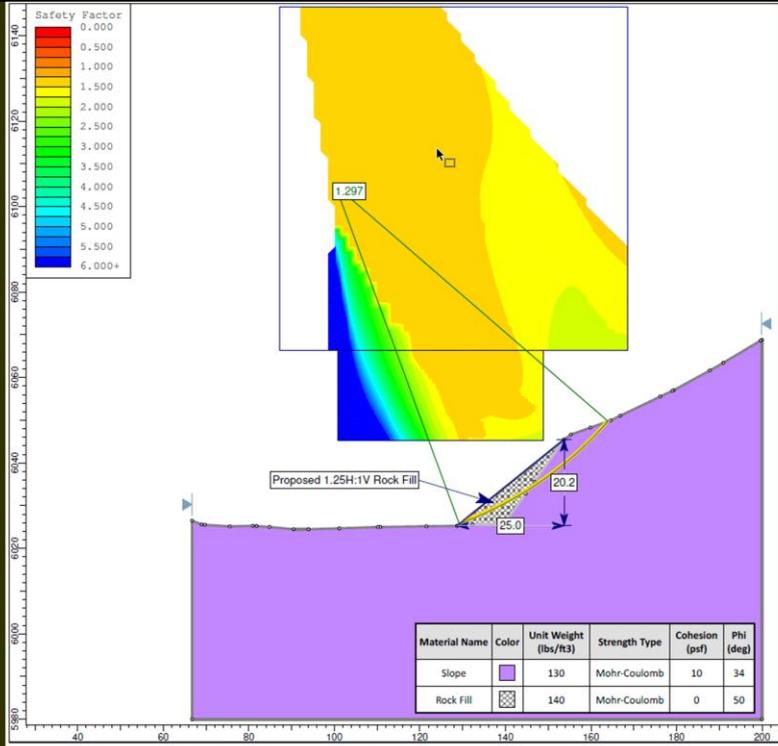
30 car lot - 11 of the 14 days would have had sufficient capacity (79%)

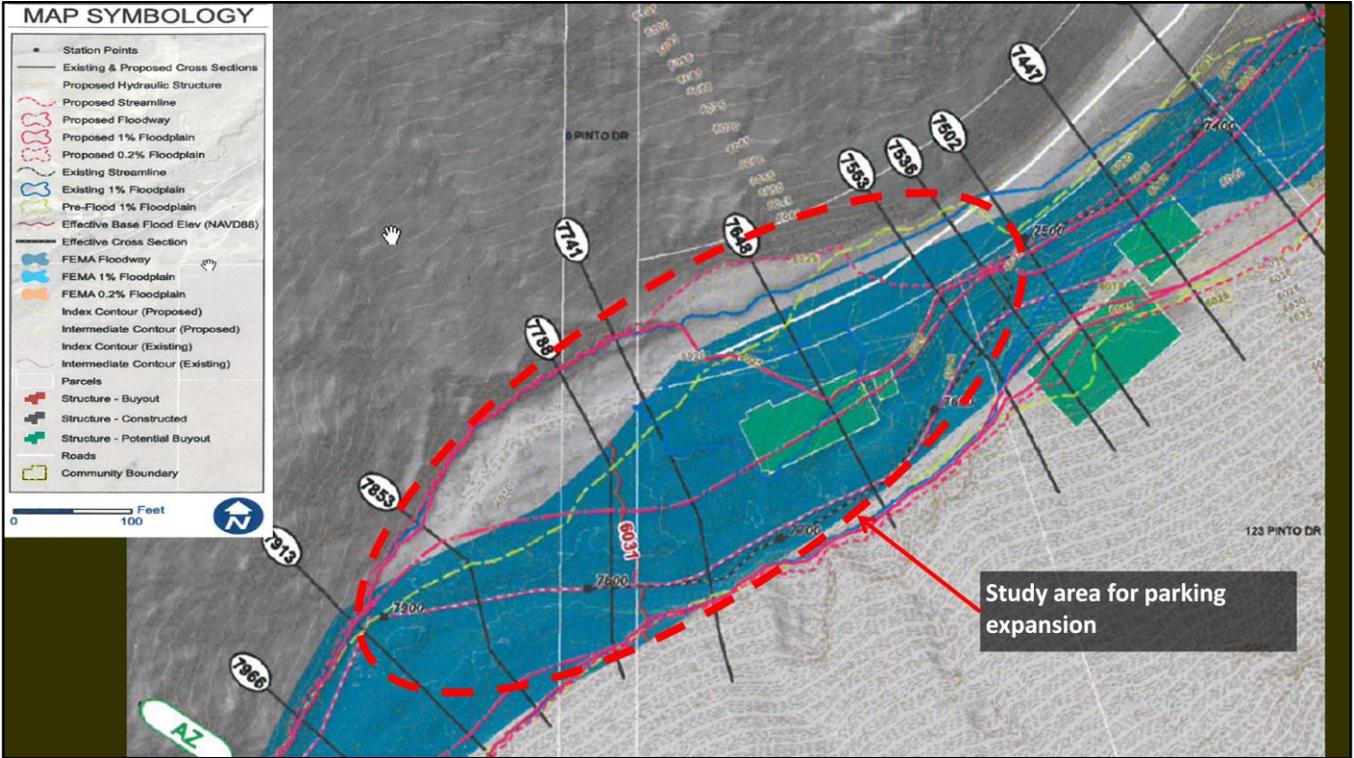
Where will overflow occur? Working with Transportation on additional on-street options

**CONSIDERATIONS**

- steep slopes
- floodway

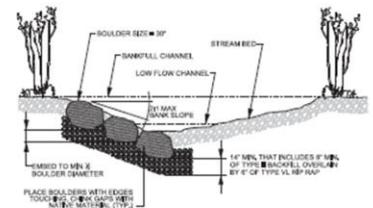
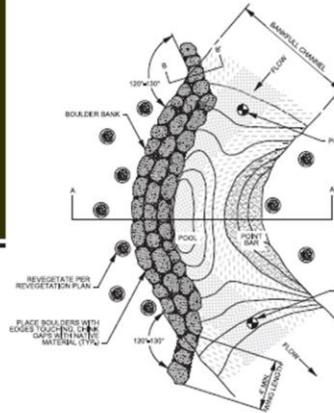




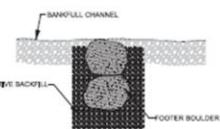


# Fourmile Canyon Creek Stream Restoration

## BOULDER BANK PROTECTION



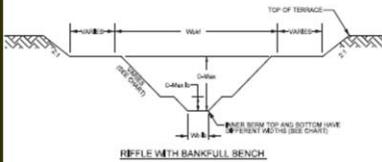
CROSS SECTION A-A'



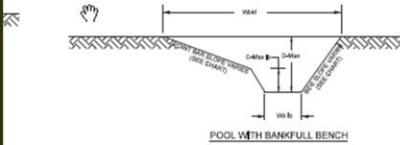
CROSS SECTION B-B'

## TYPICAL RIFFLE, POOL, AND BANKFULL BENCH CROSS SECTIONS

NTS



RIFFLE WITH BANKFULL BENCH



POOL WITH BANKFULL BENCH

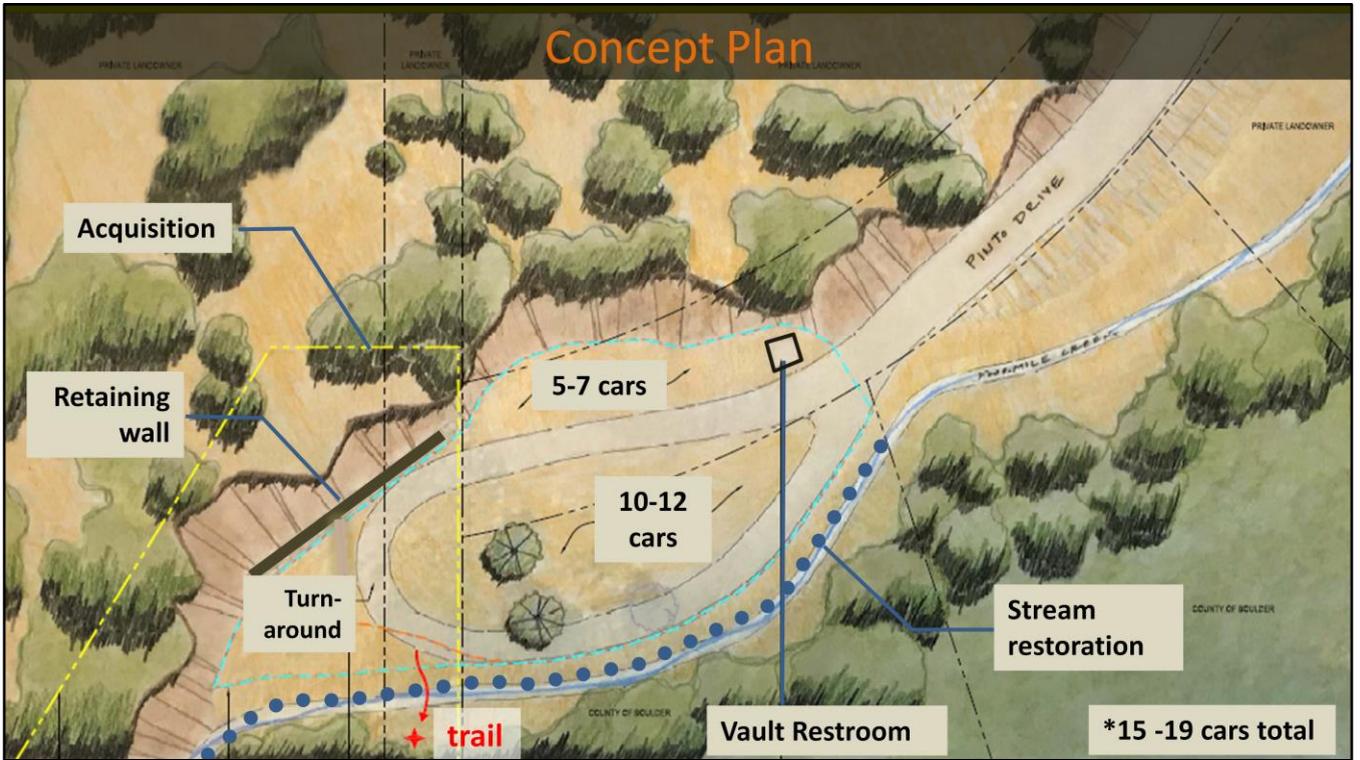
### NOTES

- 1. CHANNEL CONSTRUCTION CORNERS OF OPEN CHANNEL SHALL BE ROUNDED AND A THALWEG SHALL BE SHOWN FOR DIRECTION OF FLOW.
- 2. POOL SHOWN ABOVE IS BANK POOL ONE.

RIFFLE				POOL		
NO. 1	NO. 2	NO. 3	NO. 4	POOL - MIN AREA	POOL - MAX AREA	POOL WITH BOULDERS
UPSTREAM OF LION POINT STA 300+00 to 311+00 and 311+01 to 312+00	UPSTREAM OF LION POINT STA 311+00 to 312+00	DOWNSTREAM OF LION POINT STA 312+00 to 313+00	DOWNSTREAM OF LION POINT STA 313+00 to 314+00			
1.2	1.2	1.2	1.3	1.4	3.5	3.5
1.8	1.8	1.9	2.0	2.5	2.7	2.8
18.0	15.3	10.7	13.8	13.0	12.2	13.0
2.0	2.2	2.1	2.1	0.1	0.6	1.0
0.8	0.8	0.8	0.8	1.0	0.3	1.0
11.0	10.4	10.3	11.2	25.0	20.4	22.0
2.0	1.8	2.3	2.3	-	-	-
8.0	8.2	8.5	8.5	8.0	10.0	8.5
6.0	6.5	7.0	7.0	6.5	1.0	6.5
0.6	0.6	0.7	0.7	1.0	0.3	1.0
0.8	0.8	0.8	0.8	0.2	0.4	0.7
10.0	10.0	10.0	10.0	0.7	0.5	0.8
5.2	5.2	6.3	6.3	8.0	10.5	8.1

WIDTH BANKFULL (Wb)(ft)  
 AVERAGE DEPTH (D)(ft)  
 MAXIMUM DEPTH (Dmax)(ft)  
 WIDTH TO DEPTH RATIO (Wb/D)  
 INNER BERM SIDE SLOPE (S1)  
 BANKFULL AREA (A)(ft<sup>2</sup>)  
 INNER BERM WIDTH (Wb)(ft)  
 INNER BERM WIDTH TOP OF RL (ft)  
 INNER BERM WIDTH BOTTOM OF RL (ft)  
 INNER BERM AVERAGE DEPTH (D)(ft)  
 INNER BERM MAX DEPTH (Dmax)(ft)  
 INNER BERM W/D RATIO (Wb/D)(ft)  
 INNER BERM AREA (A)(ft<sup>2</sup>)

# Concept Plan



# Public Input

**Neighborhood meetings : 5/25/2017, 8/29/2017, and 11/13/2018**

- Excited to have trail reopened and enjoy it again!
- Concerned about overflow parking on WWGR; and would like a more detailed plan about how that will be safely managed
- Support creating as much capacity for parking at the trailhead as reasonable
- Support a permanent restroom to decrease impacts to the creek from human waste
- Also concerned about wildfire being caused by trail users



ANNE U. WHITE TRAIL

Open Space / Parks & Trails / Anne U. White Trail



## Anne U. White Trail

The Anne U. White Trail is closed. The trail will reopen after an expanded parking lot and trailhead are built in the summer of 2019.

### Area Remains Closed – Planned to Open in Summer 2019

The Anne U. White Trail was significantly damaged by the September 2013 flood. It is the only trail in the county's system affected by the disaster that remains closed. Because of safety and access concerns, the property will remain closed until a new parking area can be constructed.

Barring any unforeseen circumstances, Parks & Open Space hopes to reopen the trail in the summer of 2019. The opportunity for the public to provide input about a parking area expansion opportunity will begin in early November and continue until a hearing before the Boulder County Commissioners on December 13.

### Email Sign Up

Sign up to receive email updates about the Anne U. White Trail Parking Area Expansion Project.

[Sign Up](#)

# Schedule

- BOCC Hearing, 12/13, 11:00 a.m.
- Complete design over this winter
- Start construction in Spring 2019
- Open parking/trail by Summer 2019
- Some amenities and restoration may come after trail is reopened (timing/funding constraints)

# Management Plan

MP Purpose: guide location/extent of visitor facilities and management of natural, cultural and agricultural resources in alignment with BCPOS mission.

“Fourmile Canyon Creek Park” Management Plan:

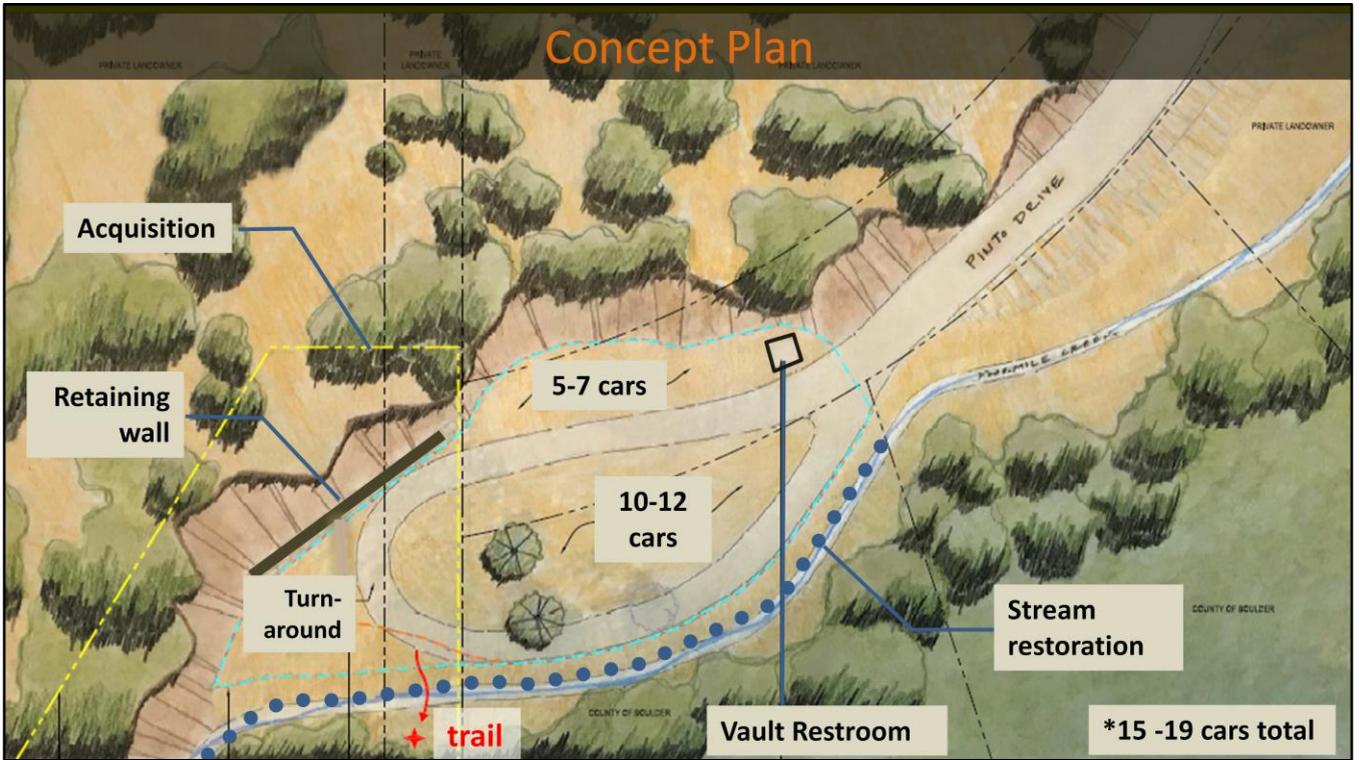
- Management emphasizes use as foot trail located within unique montane riparian system and served by a small parking
- “The trail is extremely narrow in places and since the riparian habitat and creek itself are relatively pristine, horse travel in the creek or close to the bank should be discouraged.”
- If trail to Eldorado Canyon is complete, a trail suitable for equestrian use would be formalized

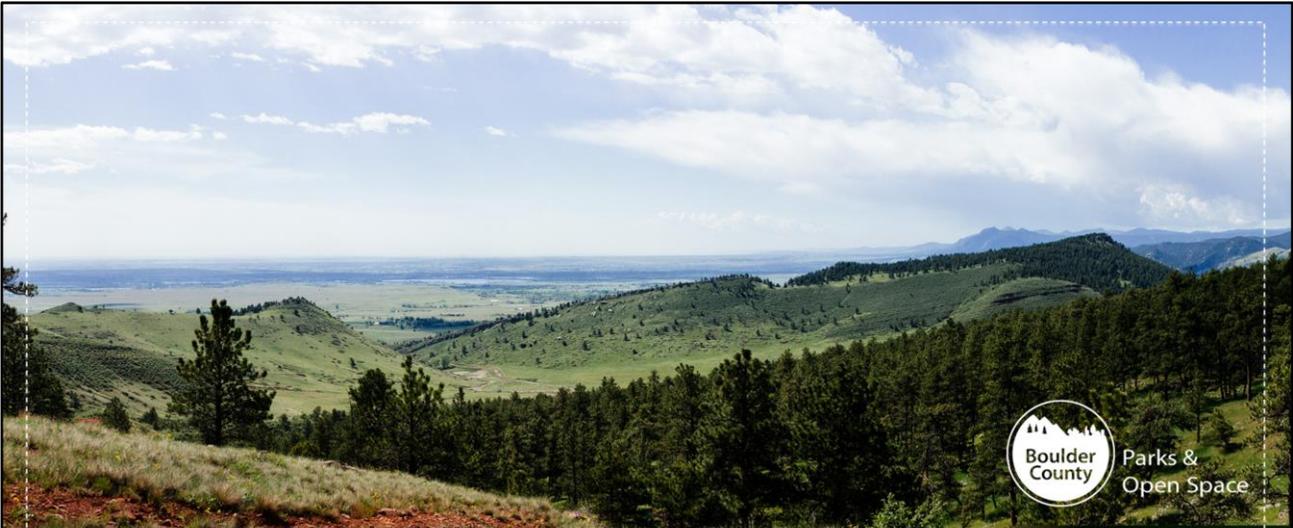
**Staff Recommend** amending *Anne U White Trail Management Plan (a/k/a Fourmile Canyon Creek Park Management Plan)* to allow for expansion of the parking area with the following considerations:

- ***Parking capacity may be expanded*** to accommodate up to **30 vehicles** (15 to 20 vehicles feasible).
- ***Flood resilience*** should be a significant component of the design (100-year flood design; toe wall; channel design).
- ***Stream restoration*** is an important component of the project. Consideration should be given to supporting montane riparian ecosystem functions in the overall design.
- ***A permanent restroom*** facility may be constructed assuming a suitable location can be permitted.
- The Anne U White Trail shall be designated for ***pedestrian use only***.
- ***A plan for managing parking and other safety and enforcement concerns*** on Wagonwheel Gap Road during periods of high visitation shall be developed in coordination with the Transportation Department, law enforcement, and the local fire district, prior to reopening the trail.

(Note: staff also plan to initiate a more focused discussion with the fire district and immediate neighbors about potential wildfire mitigation actions that could occur along the trail corridor.)

# Concept Plan





**2019 CIP**

# **Boulder County Parks & Open Space**

**POSAC Hearing, November 15, 2018**

Category	CIP
Recreation & Facilities	\$89,750
Historic Preservation	\$55,000
Public Education	\$25,000
Agriculture	\$81,805
Forestry	\$161,500
Ecosystems	\$146,400
Contingency	\$190,545
<b>Total</b>	<b>\$750,000</b>

Changes in CIP fund allocation process:

- Move away from set allocations
- Award funds to shovel ready projects
- Reduce budget carryovers
- Flex to spend more in one category in a given year
- High contingency due to unknown cost of Anne U. White Trailhead and Rock Creek Farm major maintenance

	2018 Carry-over	2019 Grants	2019 Partner/ Other	2019 CIP	2019 Total
Rec & Fac	92,000	\$0	\$0	\$89,750	\$181,750
Historic Pres	\$33,412	\$200,000	\$0	\$55,000	\$288,412
Pub Ed	\$0	\$0	\$0	\$25,000	\$25,000
Agriculture	\$0	\$72,069	\$92,330	\$81,805	\$212,204
Forestry	\$0	\$960,000	\$0	\$161,500	\$1,121,500
Ecosystems	\$98,000	\$0	\$498,000	\$146,400	\$742,400
Contingency				\$190,545	\$190,545
<b>Total</b>	<b>\$223,412</b>	<b>\$1,232,069</b>	<b>\$590,330</b>	<b>\$750,000</b>	<b>\$2,761,811</b>

Leverage = \$1,232,069 (grants)+ \$590,330 (partner) = \$1.8M or 2.4 leverage of the \$750k CIP

# Recreation & Facilities



## 2019

- Heil 2 completion
- Toll Trail Grant app
- C & M Guidelines
- McIntosh Barn
- Anne U. White TH

## 2019: Heil 2 \$135,000



- Finish School House Trail
- Asbestos abatement
- Remove structures
- Trailhead Restroom
- Equestrian Parking

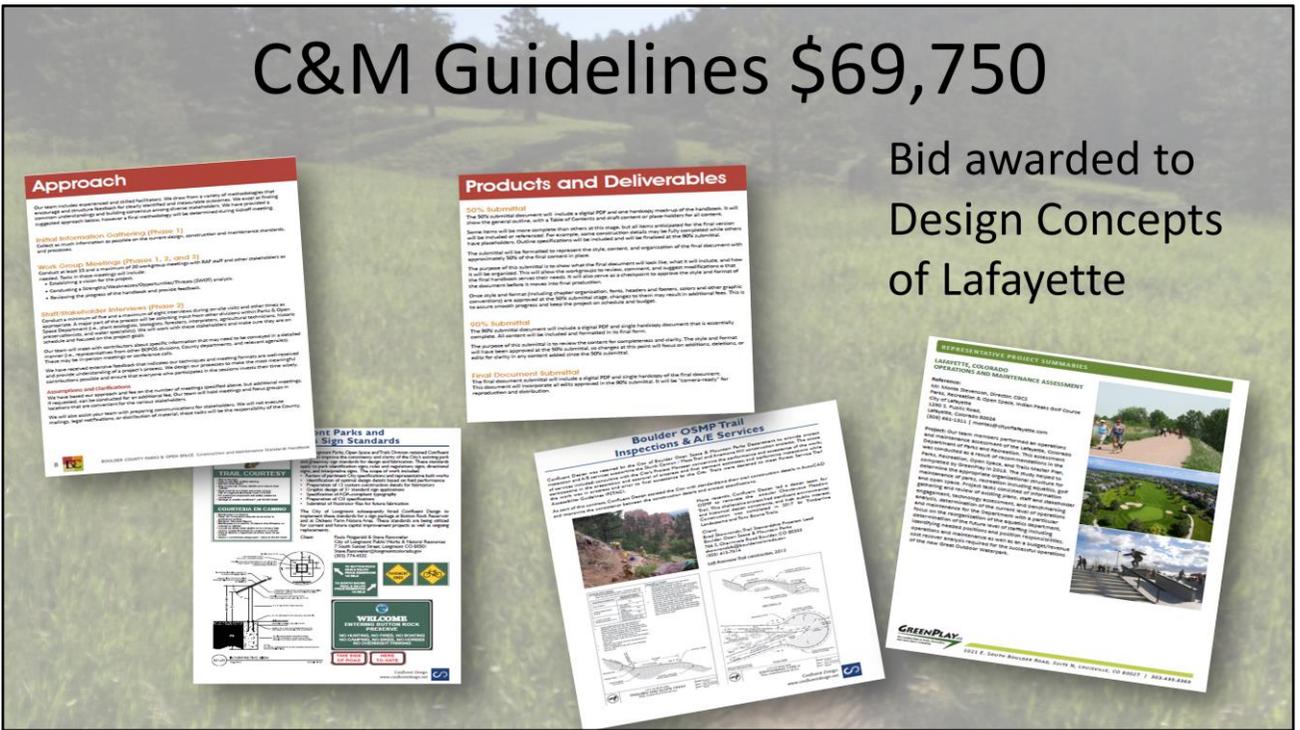
# 2019: Toll Trail Grant Application



**Heil 2 Improvements:** 2019 CIP. The County purchased the 210 acre Heil 2 property in late 2012. This property lies on both the east and west side of Geer Canyon Drive south of the existing trailhead. A small area plan for Heil 2 was completed and approved in May, 2016, with improvements including a trails, trailhead, and trailhead amenities. The Overland Loop Trail opened in 2017. CIP funds are earmarked for completing the improvements adopted in the Heil Valley Ranch 2 Small Area Plan. See also HP #4.

# C&M Guidelines \$69,750

Bid awarded to  
Design Concepts  
of Lafayette



**Construction & Maintenance Guidelines: 2018 carryover + 2019 CIP. Vision 2020** includes the goal of the creating construction and maintenance guidelines for parks related facilities. The RFP was awarded in late 2018 and work will be completed in 2019.

# 2019: McIntosh Barn ADA Access \$21,000



**AG Heritage Center Improvements:** 2019 CIP for Phase 2 of irrigation site improvements and to install ADA access to the MacIntosh Barn (requires architectural and engineering plans). In 2014-2016 staff completed driveway improvements for site distance, upgraded an agriculture irrigation structure to correct erosion problems to the trail, completed Phase 1 irrigation improvements for the yard area near the house, and installed culvert intercept by corrals. Phase 2 work includes additional irrigation and plantings to entry and central yard area.

# 2019: Anne U White Trailhead



**Anne U. White Trailhead:** 2019 CIP. The Anne U. White trail has been closed since the devastation of the 2013 flood. Work on the trail is essentially completed, and has benefitted from the help of numerous volunteer days. The two homes closest to the trailhead were a part of the buyout through the FEMA process, and the county Transportation Department is working on the road and access into 2019. Trailhead design options will be evaluated and finalized by first quarter 2019, and construction is expected to be completed in 2019.

## 2020 RAF Projects

- Lagerman Agricultural Preserve parking upgrade \$130k
- Betasso Preserve parking expansion \$130k
- Walker Ranch Ethel Harold parking upgrade + Meyers Gulch nature play \$40k
- Braly Loop TH \$15k
- St. Vrain Trail extension to Pella Crossing

**Lagerman Agricultural Preserve:** 2020 CIP. In 2020, expand and upgrade the trailhead as necessary to accommodate horse and boat trailer parking, based on demand. This project will use in-house staff for construction.

**Betasso Parking Expansion:** 2020 CIP. The 2009 Betasso Preserve Management Plan calls out expansion of current trailhead capacity as a medium priority based on visitor use and demand.

**Walker Ranch Management Plan Implementation:** 2020 CIP. The management plan update for Walker Ranch was completed in 2013. 2020 CIP funds will be used for upgrade of Ethel Harrold Trailhead.

**Braly Loop Trail, Parking Lot, Trailhead:** 2020-2021 CIP. Apply for Fishing-is-fun grant or GOCO trails grant in 2019. Plans include creating a loop trail, Trailhead and parking facility, to eventually be part of the St. Vrain corridor trail. Additional funding coming from cash-in-lieu funds and Boulder County Transportation (for construction of restroom for regional trail). See also HP #1.

**St Vrain Trail Construction to Pella** (Boulder County Transportation). The St. Vrain Trail Master Plan was completed in 2006 in collaboration with the City of Longmont and Town of Lyons. Construction timing of the trail segment from Airport Road to Pella Ponds depends on real estate acquisitions.



## 2021-2024 RAF Projects

- Castle Rock Site Improvements
- Rock Creek Trail Spur/104th St.
- Reynolds Ranch
- Additional parking lot expansions

**Castle Rock Site Improvements:** 2021 CIP. Castle Rock is a popular climbing and picnicking site in Boulder Canyon. A planning process is underway to determine recreation site improvements the Castle Rock area.

**Rock Creek Spur – 104<sup>th</sup> St.:** 2022-2023 CIP. There is an opportunity to connect the Coal Creek Trail with Rock Creek Farm via the S. 104th Street corridor. This connection has been identified as a high priority for Louisville and Lafayette, and would provide access from these two communities to Rock Creek Farm and its trail system. Opportunities for making this connection include the utilization of the S. 104th Street right-of-way, the western boundaries of the open space properties themselves, or through the Colorado Technology Center. All combinations of these possibilities will be explored and if a trail should pass through an open space property, all efforts should be made to preserve the integrity and function of the agricultural resource, including irrigation concerns.

**Reynolds Ranch/Rogers/Castle Rock Improvements:** 2022-2023 CIP. Master planning will be occurring for improvements. Funds are earmarked for implementing the approved improvements.

**Parking Lot Expansions:** 2022, 2024 CIP. Consider additional expansion of park facilities at various parks, including Mud Lake, Caribou Ranch, Hall Ranch, Walden Ponds, and Walker Ranch.



# Historic Preservation

**2019**

Braly Barn

Henning Barn

Cultural Resource Survey

Tumbleson House

Heil 2 Caboose 2199

Major Maintenance

UNSAFE  
STRUCTURE  
KEEP OUT

## 2019-20: Braly Property

- Braly Barn Structural Rehab, \$203.5K
- 2020 Braly Garage Rehab, \$35K



**Braly Barn Phase I:** 2019-2020 CIP. The circa 1903 Braly barn is located on the historic Wencel Farm northwest of Hygiene. The County purchased the 112.48-acre property June 2000. Both the main branch and the south branch of St. Vrain Creek cross the property, which sustained significant damage during the historic 2013 flood. Flood repairs on the breached reservoirs will start in 2019 ~~are nearly complete~~, allowing plans for public access on the proposed St. Vrain trail which crosses through the property to resume (see RAF #13). In 2018, the barn's construction documents were updated in anticipation of applying for a 2019 State Historical Fund grant. If awarded, the 2019 CIP funds will provide a cash match to the grant award. Construction will occur in 2020. Phase I scope of work is limited to structural repairs and includes architectural fees for project oversight to meet grant requirements. Cost estimate to be refined over winter 2018-2019.

## 2019: Henning Barn Repairs, \$\$



**Henning Barn: 2019 CIP cost estimate.** Recreation and Facilities will obtain a cost estimate to complete the barn repairs. Located on the Western Mobile property, the 1905 barn is one of last remaining features of the Henning Farm, an early 20<sup>th</sup> century farm that incorporated dairy into their operation in the 1950s. A silo and loafing shed also remain on the property. Once a complete farm complex with over 10 buildings and structures, the large hay barn is a historic icon on the landscape that is visible while driving on Hygiene Road.

## 2019: Cultural Resource Survey, \$30K



### Southdown Indian Mountain

**Cultural Resource Survey:** 2019 CIP. In 2019, CIP funds will be used to conduct a cultural resource survey at Indian Mountain in anticipation of the increased visitor use on the property by American Indian groups and individuals. Funding in future years will be used for cultural resource surveys on other priority properties, including a re-survey at Walker Ranch to update the 38 year old data, and to obtain data for previously unsurveyed properties that will contribute to a larger department effort.

## 2019-2020: Tumbleson House, \$30K

2023-2024: additional restoration work



**Tumbleson House:** 2018 CIP carryover; 2020, 2023-2024 CIP. The circa 1890s Tumbleson House at Hall Ranch was rehabilitated with GOCO Legacy Grant funds in 2001. Originally, foundation repairs were to begin in 2017, but due to the unexpected discovery of asbestos in the first floor plaster walls, the focus of the project shifted to asbestos mitigation and the foundation repairs were delayed. As a result of the asbestos abatement revealing the source of the stone wall cracks, engineers believe a crack stitching project to bond the stone wall cracks together might be sufficient instead of the more costly foundation repair. In 2019, the plan is to contract out the crack stitching construction documents with 2018 CIP carryover funds, in order to develop a cost estimate for work, anticipated to go to bid and be completed in 2020. Additional restoration work is on the CIP in 2023-2024. The repair work will ensure that the house remains viable for future uses to be determined through the North Foothills Open Space Management Plan update.

## 2019: Heil 2 Caboose 2199, \$25K



**Heil 2 Caboose 2199:** 2019 CIP. Complete the 1891 caboose facelift and asbestos abatement as part of Heil 2 Trailhead preparations. High Plains Railroad Preservation Association will provide guidance for appropriate repairs and techniques.

## 2019: Major Maintenance, \$\$



**Major Maintenance:** 2019, 2022-2023 CIP. Funding is allocated for high cost projects that extend beyond the operation and maintenance budget capability. Projects include painting outbuildings at the Carolyn Holmberg Preserve at Rock Creek Farm.

## 2021-2024:

- Olivieri House, Garage, Office
- Reynolds Ranch Log House

**Olivieri House, Garage, and Office:** 2022-2024 CIP. Purchased in 2007, the Olivieri property is located in Sunshine Canyon and originally operated as a small-scale hard rock mining operation before becoming a vacation home for the Olivieri family for over 50 years. The buildings are a representative example of the types of rustic mining cabins that were typically constructed during the early 20<sup>th</sup> century through their simplicity of design and use of readily available natural materials. The Buildings and Historic Preservation crew will removed the collapsed bunkhouse, rehabilitate the cabin, garage and stone office building.

**Reynolds Ranch Log House:** 2022-2024 CIP. The 1874 log house is part of the historic Hockaday Ranch located southeast of the Town of Nederland. Charles Hockaday, who most likely constructed the building, settled in the area after working as a freight operator from St. Joseph, Missouri to Central City, Colorado. The property is significant for its association with the early settlement of the area and the development of high country ranching. In preparation for a future use of the building as determined by the forthcoming Platt Rogers/Reynolds Ranch Open Space Management Plan, funding will cover the costs of the repairs. Operations and maintenance funds will cover any small necessary repairs until 2021.

# Public Education CIP Projects

## Building a Pioneer Spirit

**E**arly pioneer settlers came to this area for the rich timber and the fertile soil. In the late 1800s, pioneers began to settle in the area. Some of the early settlers were of English and Scottish descent. They were hardworking and determined. They left behind a legacy of hard work and determination.

James Walker moved to Boulder from Missouri in 1875, bringing with him an excellent pedigree of cattle. He was one of the first to settle in the area. He and his wife, Sarah, worked hard to make the area a better place to live. They were successful in their efforts. Today, the area is one of the best places to live in the state.

Following Walker also preceded supplies and other goods to the area. He was one of the first to settle in the area. He and his wife, Sarah, worked hard to make the area a better place to live. They were successful in their efforts. Today, the area is one of the best places to live in the state.

**A Family Affair**

Three generations of Walkers created a home in the foothills. James and Phoebe Walker's son and his wife, and later their grandchildren, participated in sustaining the family's ranching legacy. Boulder County purchased a large portion of the property in 1975 to preserve the history.

Today, Walker Ranch serves as a reminder of the determined pioneer spirit.



James and Phoebe Walker's children and grandchildren standing in front of the Walker ranch in the late 1800s. From left to right: John, Ruth, David, James, Esther, and Joe.



Early Walker home in front of the big house. Walker's children lived in the dormers.



James and Phoebe Walker's children and grandchildren standing in front of the Walker ranch.



The Walker family's smaller home in the late 1800s.

BOULDER COUNTY PARKS AND OPEN SPACE

# 2019 Cardinal Mill Exhibits, \$25K



## Cardinal Mill Exhibits & Boulder County Tunnel Interpretive Panels

**Cardinal Mill Exhibits:** 2019 CIP. Interior exhibit themes for the top and bottom of the mill will include Old Cardinal and current Cardinal site, life in a mining town, and how a mill works. This is the final step in a years-long restoration effort to bring the mill to life for public interpretation.

# 2020: Ag Heritage Center, \$125K



Replace Three Exhibits at Agricultural Heritage Center

**Ag Heritage Center Exhibits:** 2020 CIP. Due to wear and tear, a number of exhibits installed in 2000 will be replaced: "Faces of Boulder County," "Food," and "Tools of the Trade" exhibit.

# 2021-2024 Public Education

- Braly & Ramey Interpretation, \$10K
- Nederland Mining Museum, \$25K

**Braly & Ramey Interpretive Opportunities:** 2021 CIP. Trailside panels will be installed at Braly and Ramey properties highlighting the natural and cultural resources. See also RAF #9; HP #4.

**Nederland Mining Museum Exhibits:** 2023 CIP. Replace some exhibits with interactive components so exhibits are more engaging for museum visitors to learn about hard rock mining in Boulder County.

# AGRICULTURE



Well I get the honor of presenting this today in Jim Michal's absence. Jim left today right on schedule for a second honeymoon in Hawaii.

Jim as you know keeps very close track of our Ag CIP budget and the projects and hopefully I can convey to you the plans for 2019. I have Jason sauer her with me today to help answer the inevitable questions that wil arise but we all may need to wait for Jim's return to get the real low down.

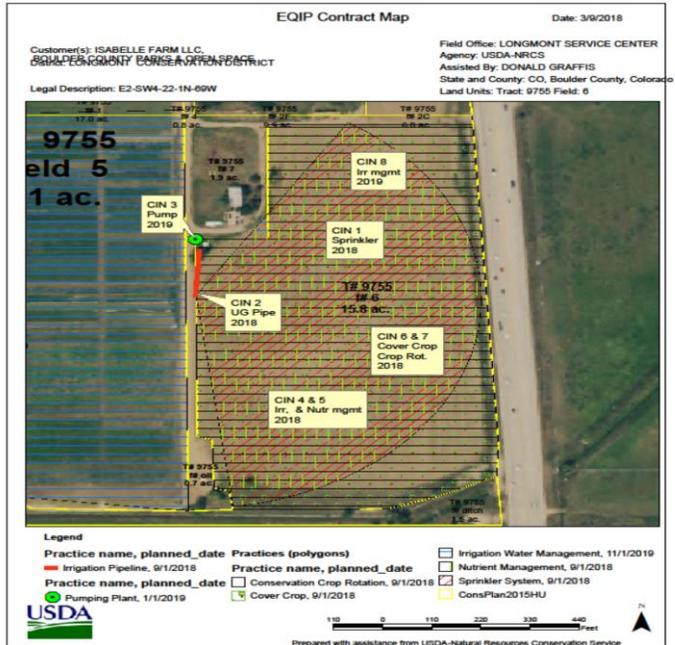
2019: Becky  
Lateral  
Sprinkler  
\$38,774

EQIP \$50,693  
Tenant \$68,841



# 2019: CCTF Center Pivot Sprinkler \$9,031

EQIP \$21,376  
Tenant \$23,489



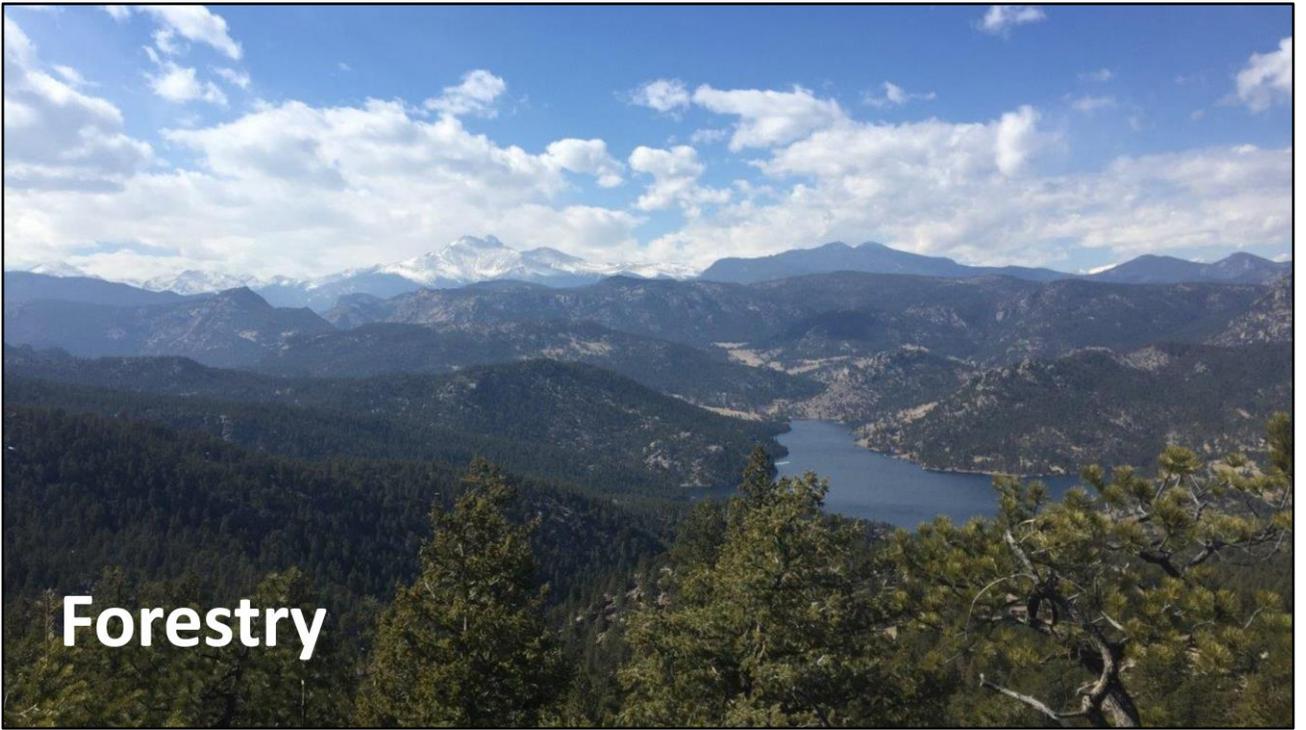
2019: Boulder  
County Land  
Venture Pivot  
Upgrade  
\$34,000

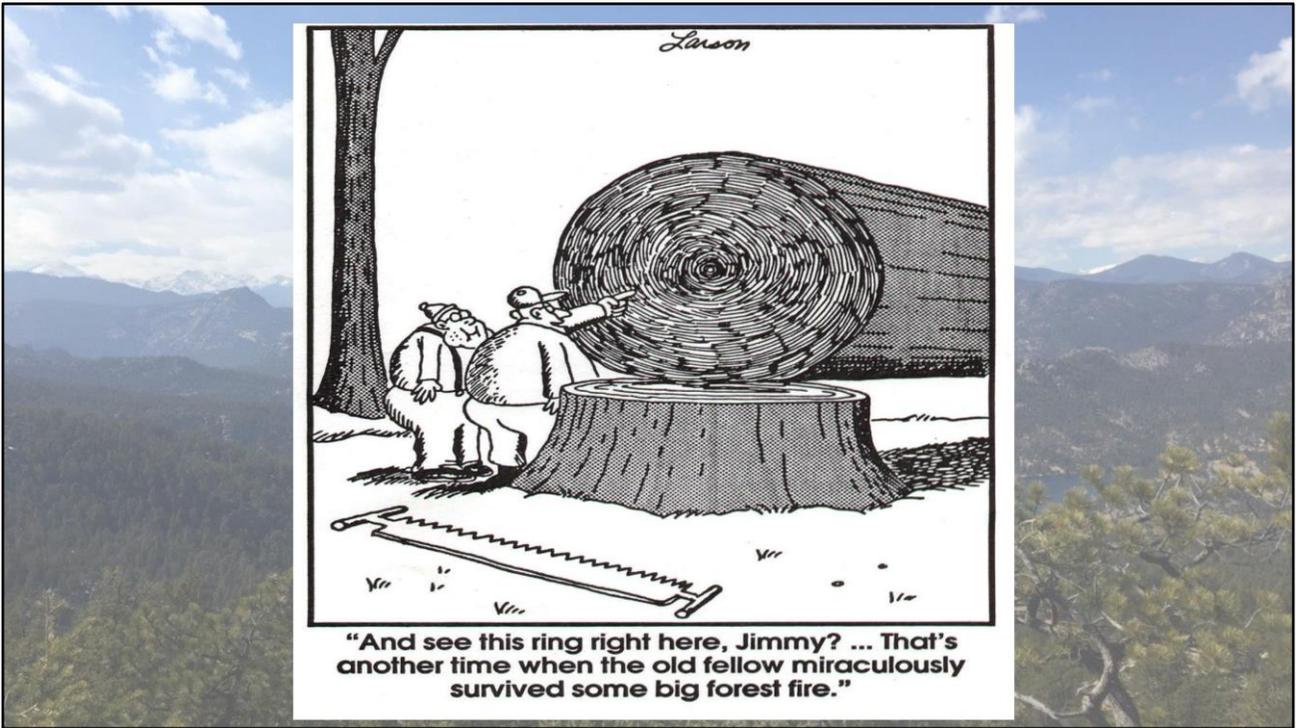


Replace diesel generator

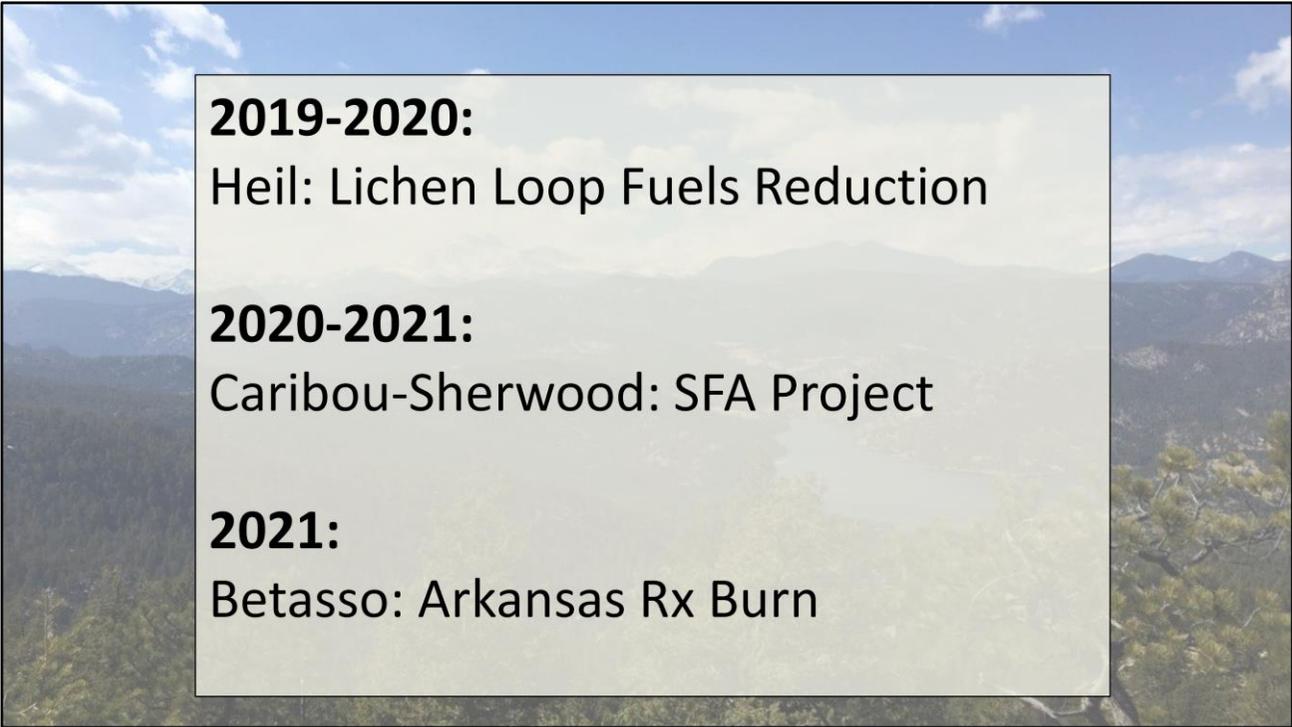
## 2020-2024 Projects

- 2020: G. Anderson Center Pivot, \$35K
- 2020: Hygeine Dairy/Bishop, \$20K
- 2021: John Clark Boundary Fence & Irrigation, \$25.6K
- 2022-2023: Henry Ross Pivots (2), \$375K
- 2024: Haley Irrigation, \$175K





All of our projects meet Goal C of the 2020 Vision "Protect and Restore Habitat and Species."  
Specifically Objective C-6: to Restore Ecological Values on 600 acres of land.



**2019-2020:**

Heil: Lichen Loop Fuels Reduction

**2020-2021:**

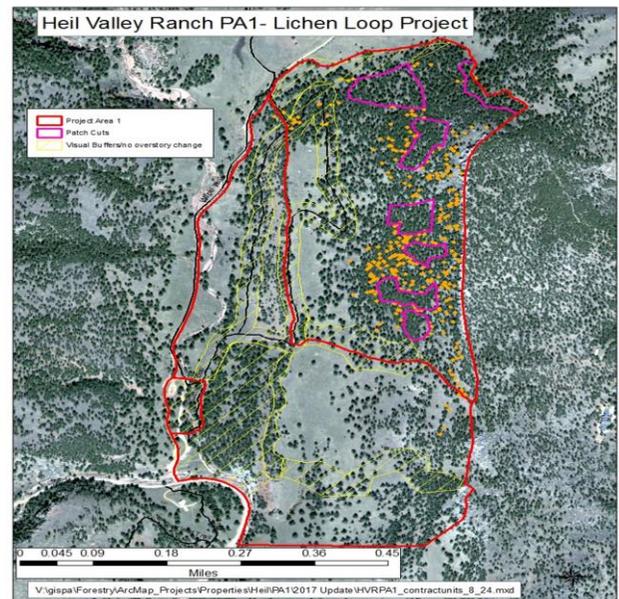
Caribou-Sherwood: SFA Project

**2021:**

Betasso: Arkansas Rx Burn

# 2019-2020: Lichen Loop Fuels Reduction

POS \$61,500/yr  
Grant \$960,000



1. 162 Acres of Forest Restoration/Fuels Reduction
2. Lichen Loop Steep Slopes below cliff edge (86 acres of steep inoperable slopes)
3. Applied For FEMA PDM Grant \$1.28 million, CIP Share \$123,000 Split over 2 years.  
We are also considering applying for some State money to decrease BCPOS share.
4. Elk Travel Corridor, Abert's considerations
5. The orange dots represent Pre-settlement ponderosa pine (The rest is fill in since)
6. Rx is Written and ready to go

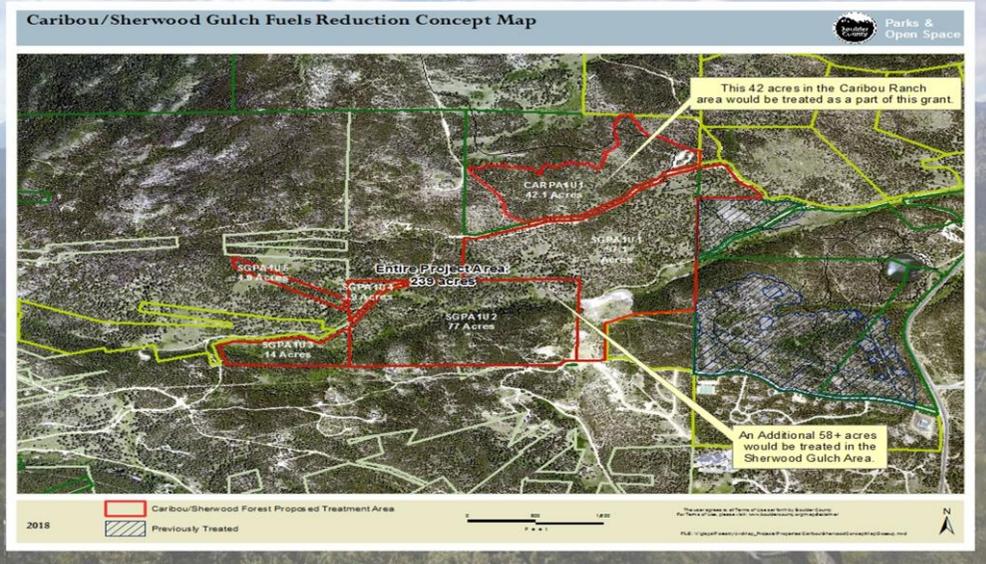
Heil, Lichen Loop (162 ac.) This project is likely to receive grant funding from FEMA (pre-disaster mitigation) and the State of Colorado. The goal is to complete ponderosa pine restoration east of the Lichen Loop Trail at Heil Valley Ranch. Our plan is to complete 162 acres of fuels reduction across two units (PA1U1 and PA2U2).

# 2019-2020: Lichen Loop Fuels Reduction



# 2020-21: Caribou and Sherwood Gulch

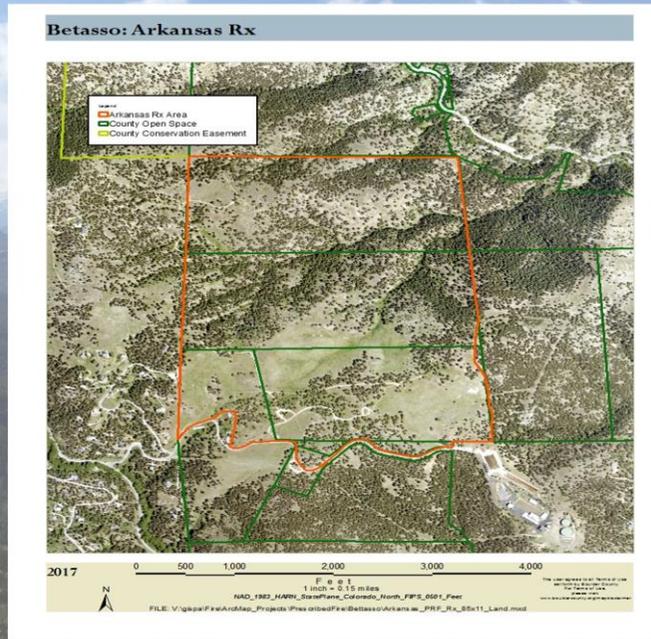
CIP \$205K  
Grant \$245K



## Forest Restoration Treatment

1. 205,000 of CIP over two years.
2. State Fire Assistance (SFA) & Wildland Urban Interface (WUI) Grant would cover \$245,000
3. South Facing slope which should have more open forest structure.

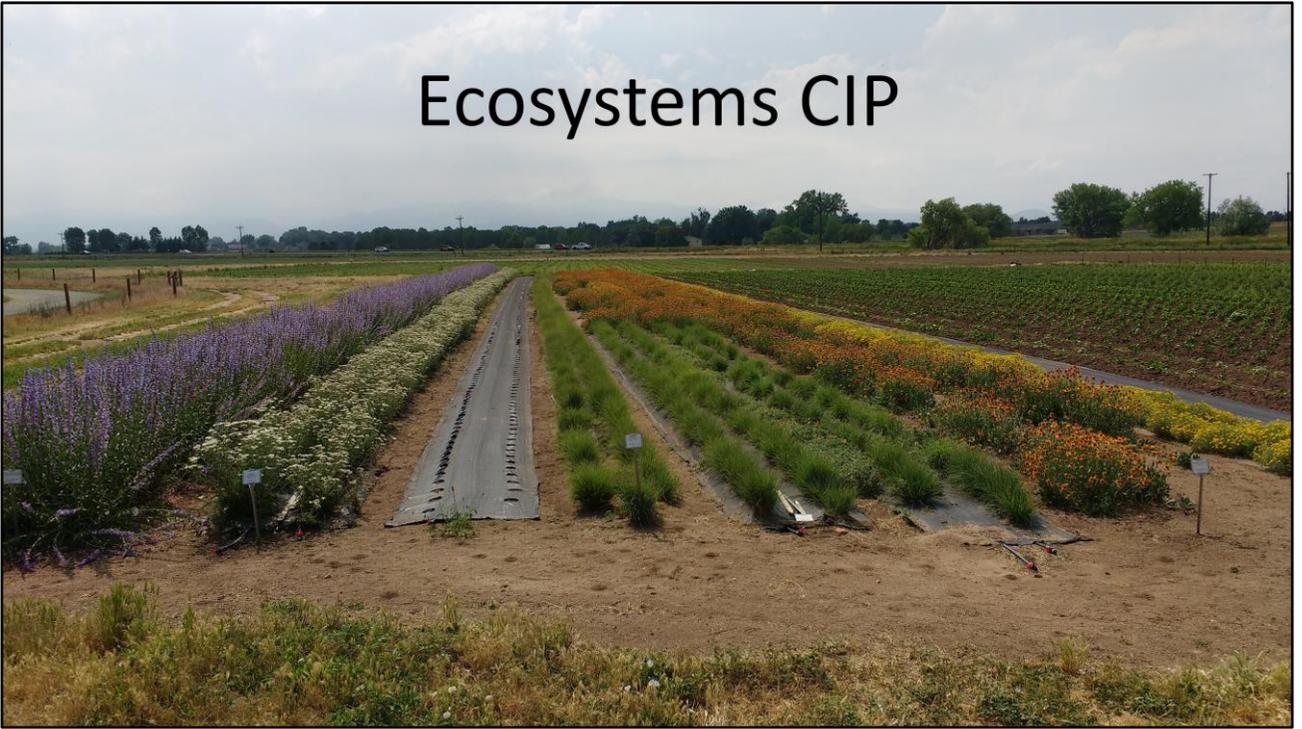
# 2021: Betasso Arkansas Rx Burn \$100K



1. \$100,000 of CIP
2. Arkansas (Betasso) RX 2019(262 Acres), Priority but could include anyone of our “Approved projects”
3. PRF is written and in review

**Prescribed Fire/Activity Fuels Projects:** 2019 CIP. After BCPOS has completed mechanically thinning some of our forests, the ideal next step for ecological process is to reintroduce fire. Our Prescribed Fire Interdisciplinary team (Fire ID Team) identifies appropriate areas to use this management practice. It can include areas of grassland and shrub land, as well as forests that have been thinned in the last several years. The Fire ID Team prioritizes projects based on preparedness and opportunity, therefore may complete work in other locations as needed

# Ecosystems CIP



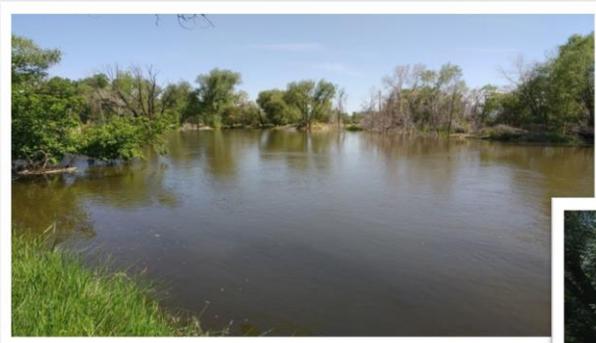
# 2019: Flood Recovery Brewbaker Property, \$117.4K



\$398,000 in COPS funding

Brewbaker: 2019 CIP. Post flood stream restoration at the Brewbaker property on Left Hand Creek is a high priority for our department, yet it did not rank high enough for FEMA funding in the Left Hand Creek Master Plan. COPS, the County "Certificate of Participation" sales tax fund, will provide up to \$398,000 for finalizing design-build plans and construction of this project.

# 2019: Niwot Ditch Fish Passage \$15K



- MOU signed by end of 2018
- 2019 CIP-\$15,000
- 2020 Vision Goal A1-j; Continue to work through St. Vrain Creek Coalition – Aquatics Committee to support implementation of fish passage structures at the Niwot and South Flat ditch diversions.

# 2019: Black Footed Ferret Reintro, \$23K



Photo by R. Reading



- Partner with OSMP & USFWS
- Funds from Prairie Dog Coalition & POS Foundation



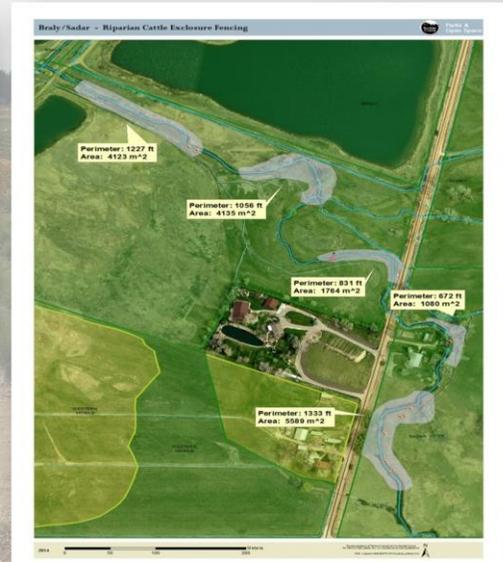
## Wildlife Habitat Restoration Projects:

- Black Footed Ferret Reintroduction: 2019-2020 CIP. Meet 2020 Vision Goal to reintroduce Black Footed Ferrets by 2020. In order to do this, funds are needed to purchase plague vaccine and flea dust for plague prevention to help increase prairie dog populations that have been negatively affected by plague.

# 2019: Preble's Fencing, \$12,000



Loukonen Dairy



Braly & Sadar

## Wildlife Habitat Restoration Projects:

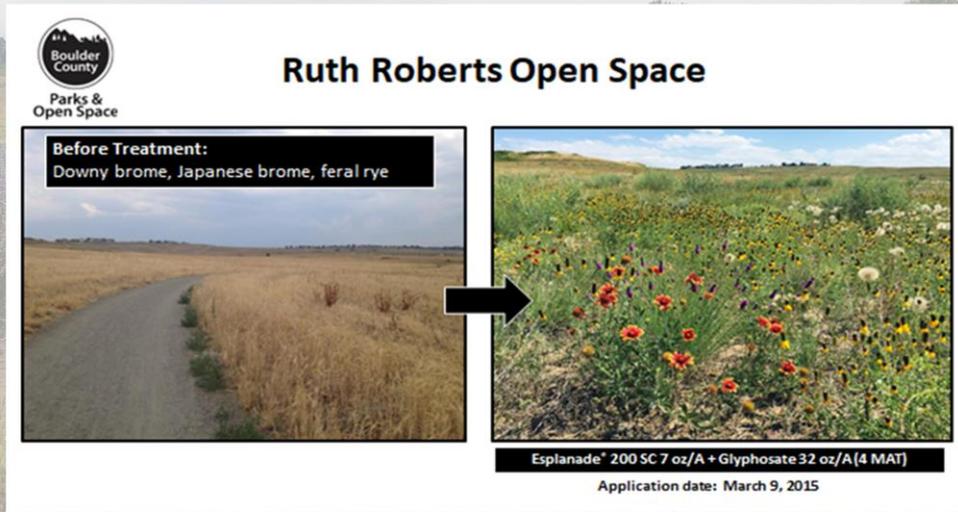
- Loukonen Dairy Farm, Parcel F: 2019 CIP. Fence off portions of the Dake Ditch/ephemeral drainage for Prebles meadow jumping mouse habitat.

## 2019: Native Plant Propagation \$15,000



**Native Plant Propagation:** 2019-2022 CIP. POS is collecting local, native ecotypes of seed that are not available commercially. These funds are used to support the following: 1) our volunteer native seed collection program, 2) the Native Seed Garden at the Peck property, and 3) additional seed increase from commercial farms operations. The local native seed we generate will be available for current and future flood recovery and ecological restoration projects.

# 2020-2022: Cheatgrass Control with Esplanade



## Grassland Restoration Projects:

**Cheatgrass Restoration:** 2020-2022 CIP. BCPOS has been using an exciting new tool for restoring areas invaded by the annual grass, cheatgrass (*Bromus tectorum*), also called downy brome (*Bromus japonicus*). Research using the herbicide Esplanade has released native vegetation suppressed by cheatgrass dominance. Applications will be made on a larger scale of up to 400 acres with this funding.

# Cheatgrass Control with Esplanade



- Target 400 acres/year
- Increase pollinator habitat
- Proxy for prescribed burning in hard to contain areas

# 2019-20: Bailey/Kenosha Creek Restoration \$10,000+UDFCD \$100,000



## **Riparian Restoration Projects:**

Bailey Ponds/Kenosha: 2019-2020 CIP. This stream restoration on Boulder Creek was identified as a high priority in the Boulder Creek Master Plan. Partner with the Urban Drainage and Flood Control District for funding and implementation. This work culminates a four-year project.

## 2019: Lower Boulder Creek \$5,000



### **Riparian Restoration Projects:**

Lower Boulder Creek: 2019 CIP. Maintenance funds for post-Army Corps of Engineers project completion.

## 2020: Conger Mine Reclamation \$7K



### **Reclamation/Revegetation Projects:**

- Conger Mine at Sherwood Gulch: 2020 CIP. Illegal shooting has become a problem at the Conger Mine. Bare areas will be reclaimed and large piles of woody debris will be moved so that they are not used as shooting targets.

# Conger Mine



- Daylight Sherwood Creek
- Future Grants

