



Trails Inventory and Evaluation

March 2008

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Clayton Trails Overview

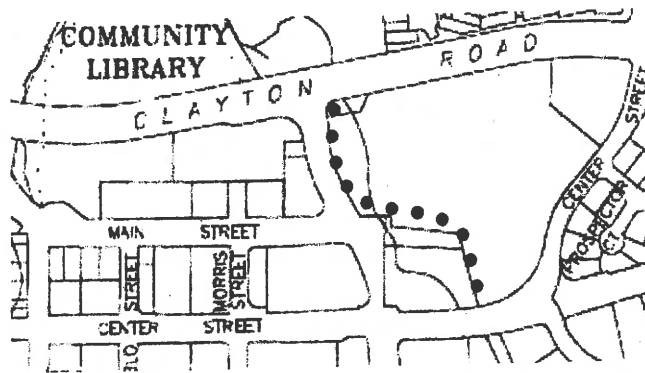
The City of Clayton Trails Inventory and Evaluation is a list of all of the trails located within the city limits, including some, but not limited to all, trails marked on the City of Clayton Trail Map. The purpose of an inventory and evaluation is to provide a guideline to build an effective trail management program. Treating smaller problems before they become larger ones can prevent wasted resources in the long term. Identifying each trail and sectioning the larger ones can aide in performing yearly evaluations and compiling a list of repairs. From the information provided in this report, a combined list of deferred maintenance will be useful when establishing the proper criteria for prioritizing each project. In future years, a standard evaluation check sheet and trail log can be used for each individual trail to monitor problem areas identified within this report. This is the beginning of a Trail Management Program.

Although there are many different types of trails within the city, evaluations were only done on the trails that are readily identified by the maintenance department and are known to be the cities maintenance responsibility. This list goes beyond the trails marked in the City of Clayton Trail Map, and trails are identified using existing names marked on trail heads, and names familiar within the cities maintenance department. The trails consist of asphalt, crushed granite, dirt foot paths, and trails that follow along city sidewalks in and around landscaped areas. Also included are trails that are dirt ranch roads, fire trails, and cow trails that either connect to designated trails or are part of the trail system. Foot trails located in the hills without designated signage are not a part of this evaluation. All trails identified are funded through the landscape maintenance district.

A glossary is provided in the back for a brief explanation of some of the terminology found in this report. The base of this evaluation was formated using many different states and national park trails evaluation guidelines, as was some of the terminology found in the glossary. The accuracy of this evaluation is only an approximation, as trails can change every year due to usage, weather, and nature itself. No special tools were used to measure the degrees of the slopes and a simple measuring wheel was used to measure footage.

NOTE: *Regular maintenance on all trails includes the removal of illegal signs, graffiti, trash, debris, and illegal dumping.*

Black Diamond Plaza Trail



Overview: The Plaza Trail represents the hub for many of the other trails in Clayton. The plaza itself is the official starting point of the Cardinet Trail.

- **Access paths:** None
- **Connecting trails:** Cardinet Trail – Diablo View Trail – Upper Easley Trail

Total traveled distance: .16 miles

Trail tread: ¼ x crushed granite – 2 x 6 wood border on both sides – 4' x 312' - ¼ x crushed granite – 6' x 378' – 2 x 6 border on one side – Asphalt – 8' x 345' 2 x 6 border on one side – 50% Level grade – 50% sloped grade - Level cross grade

Structures: 335' granite rock v-ditch - All other structures maintained within downtown landscape

Signs: 1 – 6 x 6 wood trail marker
1 – 24" x 36" metal sign with 4 x 4 posts

Annual Maintenance

- Refill ¼ x crushed granite as needed.
- Check erosion caused by sprinklers
- Herbicide control twice a year
- Replace or repair 2x6 wood borders as needed
- Cut low lying limbs
- Spot spray weeds

Deferred Maintenance

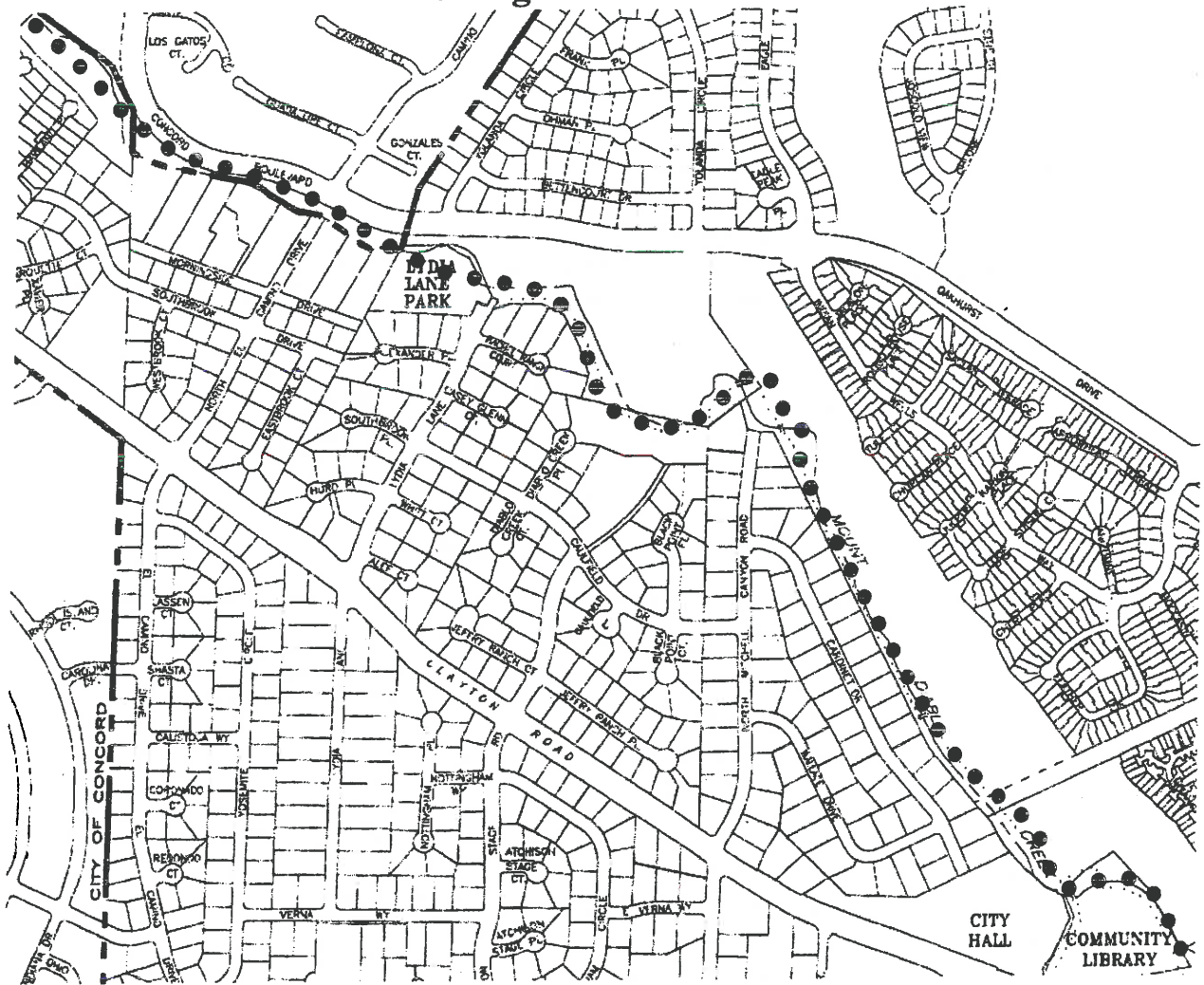
- 5 yards crushed granite
- Replace or repair 50' 2 x6 border
- Replace plaque on trail marker

Future Maintenance and Improvements

- Add 10 water bars to the sloped areas.

Evaluation: With the exception of adding water bars to reduce erosion, this trail is in good shape.

George Cardinet Trail



Overview: The Cardinet Trail Begins at the southeast corner of the library at the intersection of Clayton Rd. and Marsh Creek Rd. It travels north along Mt. Diablo Creek, behind the library, over a small foot bridge, and through the Keller Ranch House property. It continues down Mt. Diablo Creek, crossing over several foot bridges shaded by several large oaks and elms. The trail runs through Diablo Open Space, Lydia Lane Park, and Westwood Park where it ends at the bollards adjacent to the PG&E power box behind the Safeway property. This trail has 3 sections. The **Library Section** starts at the trail head and continues through the Keller Ranch property, the **Diablo/Keller Section** starts at the Keller Ranch property and continues to the Lydia Lane Park parking lot, and the **Westwood/Lydia Section** connects Lydia Lane Park and Westwood Park.

- **Access pathways:** 2 additional pathways connect city streets to the Cardinet Trail. The **Silvercreek Path** travels from Oakhurst drive to the junction between Mitchell Bridge and Diablo Bridge. The **Caulfield Path** travels from Caulfield Dr. to Diablo open space. *The property between Cardinet Bridge and Mitchell Bridge is owned by the golf course where the city has a trail easement.*
- **Connecting trails:** Diablo View Trail

Total traveled distance: 1.46 miles

Trail tread: 60% crushed granite, 33% asphalt, and 7% other - No wood border - Level grade - Level cross grade.

Structures:

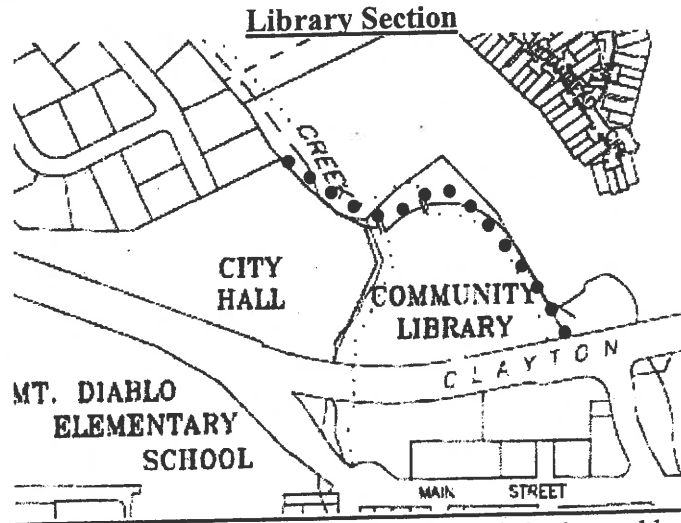
- 6 Bridges
- 8 benches

- 180' wood split rail fencing
- 90' retaining wall
- 18 5' railroad ties
- 38' round 3 rail wood railing
- 2 exercise courses.

Signs:

- 6-6x6 wood mile markers
- 3 metal signs

NOTE: All bridges are bare iron frame, concrete footings, and a 2x12 wood plank floor made by Continental Bridge, Alexandria MN 1-800-328-2047. They are all marked with a serial number.



Trail tread - ¼ x crushed granite - 6x72' crushed gold rock 2x6 wood border on one side - 8 x 440' - ¼ x crushed granite - Level grade - Level cross grade.

Structures

- Keller Foot Bridge #94227 6'x76'
- 180' wood split rail fencing
- 90' Retaining wall
- 3 standard spec city redwood benches
- 1 Victorian iron/wood bench
- 3 tree up lights. (Lights are maintained with library funding.)

Signs

- (1) 12x18 metal George Cardinet sign (Mounted on split rail fence at the start of trail.)

Annual Maintenance

- Check for signs of erosion caused by library sprinklers
- Check for vehicle ruts in trail
- Inspect split rail fence for damage
- Replace or repair signs as needed
- Inspect wood retaining wall
- Inspect 2x6 wood border
- Inspect bridge floor planks and concrete footings for erosion
- Inspect entry and exit to bridge
- Repair 3 redwood benches as needed
- Inspect Victorian bench
- Cut low lying branches
- Cut down weeds twice a year
- Herbicide control twice a year
- Refill ¼ x dust as needed.

Deferred Maintenance

- Add 2 yards crushed gold rock and
- Add 5 yards crushed granite.
- Replace 4 sections of split rail.
(This area has been hit numerous times, and we may want to leave this as is until we see further reason to reinstall.)
- Tree up lights need to be repaired, but we will do so with library funding.

Future Maintenance and Improvements

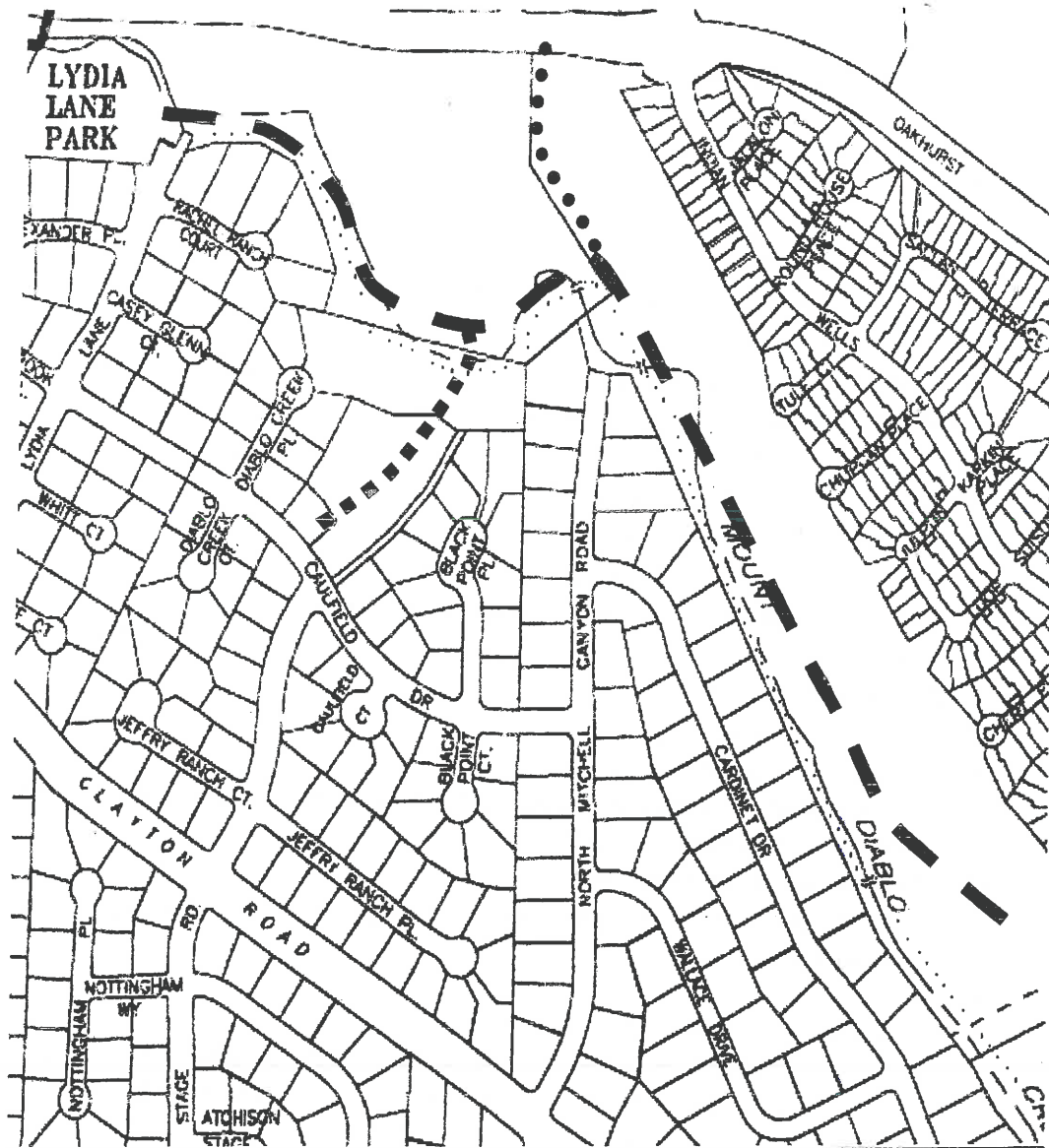
- This area has benefited from many different user groups. With the exception of a chain or gate to keep vehicles from driving to the back of the library, there are no proposed improvements at this time.

NOTES:

(Tree up lights are maintained with library funding.)

Evaluation: This trail is heavily used by the residents. The Library section represents a fraction of the trail, but is very high profile. This trail is mowed while doing open space, and often maintained by library volunteers. This trail is in good shape.

Diablo/Keller Section



Diablo Keller Section ■■■ ■■■ ■■■ ■
Silvercreek Pathway ●●●●●●●●●●●●●●●●●●●●●●
Caulfield Pathway ■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■

Trail tread – $\frac{1}{4}$ x crushed granite (3 bridge crossings) – 7' x 4,000' crushed granite. Level grade
- Level cross grade.

Structures

- 2 redwood benches
- 1 redwood bench with steel posts
- 11' round 3 rail wood railing
- 6'x7' 2x12 wood ramp
- 2 railroad tie stair
- 12 railroad tie trail borders (abutting bridges).
- Cardinet Bridge #94224 6'x51'
- Mitchell Bridge #94320 6'x78'
- Diablo Bridge #94225 6'x60'.

Signs

- (4) 6 x 6 wood mile markers

Annual Maintenance

- Refill $\frac{1}{4}$ x base
- Cut low lying branches
- Cut down weeds twice a year
- Herbicide control twice a year
- Inspect redwood benches
- Inspect railings, ramp, and rail road tie stair on Mitchell Bridge
- Check for erosion on all bridge footings
- Check bridge 2x12 wood planks, and rail road tie trail borders
- Inspect entry and exit to bridges
- Inspect mile markers for damage
- Check for erosion on creek bank
- Report and repair any holes caused by ground squirrels
- Report any bee hives

Deferred Maintenance

- Add 40 yards of granite to base.
- Contract out tree trimming along trail.

NOTES: The oak trees located in the adjacent open space areas are not on city property. We trim only branches blocking the trail

Future Maintenance and Improvements

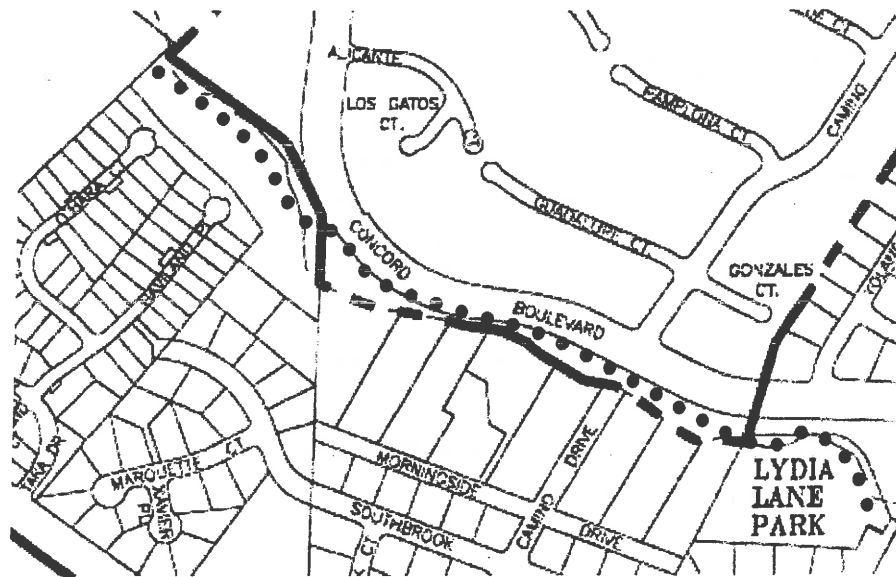
- With the exception of some minor erosion along parts of the creek bank, this trail is in fairly good shape.

NOTES:

(Bike jumps are popular along this section of trail.)
(Area by oak tree between Cardinet and Mitchell bridges needs to be measured for erosion. This trail section currently measures 5 feet from oak tree to edge of creek.)

Evaluation: This trail is heavily used by the residents. The Diablo/Keller section has minimal access and can be labor intense. Bike jumps, tree forts, and bee hives are always a problem. Weeds are cut down while mowing open space. Creek bank needs to be monitored for erosion.

Westwood/Lydia Section



Trail tread - Asphalt base (2 bridge crossings) – 10' x 515', 6'x 62' smooth surface / 6'x 2,169' chip seal surface – Level grade – Level cross grade.

Structures

- 1 redwood bench
- 15' section of round 3 rail wood railing
- 12' section of round 3 rail wood railing
- 9' section of round 3 rail wood railing
- Lydia Bridge #91233 6'x 60'
- Westwood Bridge #91232 6'x 51'
- 2 exercise courses

Signs

- (2) 6x6 wood mile markers
- 18"x36" metal sign with metal posts
- 12"x18" metal sign on 6x6 wood post.

Annual Maintenance

- Check asphalt for excessive cracking and seal as needed
- Cut low lying branches
- Cut weeds twice a year
- Herbicide control twice a year
- Check footings of bridges for erosion
- Check bridge 2x12 wood planks
- Inspect entry and exit to bridges
- Inspect wood mile markers
- Replace or repair signs as needed
- Check wood railings
- Inspect exercise courses.

NOTE: Weeds will be cut down with open space mowing

Deferred Maintenance

- Crack seal entire trail
- Chip seal where applicable
- Repair wood railing at Westwood Bridge
- Replace (4) 2x12 wood planks at Westwood Bridge.

Future Maintenance and Improvements

- Resurface chip seal with fresh asphalt.

NOTES:

(Applying a smooth surface to trail would allow for a larger variety of users.)

(There is 1 exercise course located in each park.)

Evaluation: This trail is heavily used by the residents. The Lydia/Westwood section is the most maintenance friendly part of the trail. This trail is in great shape.

Access Paths

Silvercreek Path

Total traveled distance: 741 feet

Tread – Asphalt base – 8' x 741 – Level grade with 40' Steep grade to Cardinet Trail – Level cross grade.

Structures

- 37' retaining wall

Signs

- 6x6 wood trail marker with 4"x6" aluminum sign

Annual Maintenance

- Crack seal pathway
- Inspect wood trail markers
- Replace or repair signs as needed
- Spot spray weeds
- Check erosion by retaining wall and path slope
- Inspect retaining wall

Deferred Maintenance

- Repair 8'x16' section of asphalt lifted by pepper tree
- Repair lifted concrete

Future Maintenance and Improvements

- Add blocks to retaining wall
- Replace 6'x20' section of lifted concrete with asphalt

NOTES:

(Building retaining wall to 3 block heights will help prevent slope from sliding on the trail.)

(Removing concrete and replacing with asphalt will be consistent with the rest of the path, and avoid any future lifting.)

Evaluation: The lifted section of concrete is the old golf cart path. This needs to be removed and replaced with asphalt. The retaining wall needs to be raised in to prevent runoff onto the Cardinet Trail. The area of asphalt damaged by the pepper tree needs to be replaced to avoid injury.

Caulfield Path

Total traveled distance: 690 feet

Trail tread – Sidewalk 4' x 513' and ¼ x crushed granite 6' x 177'. Level grade – Level cross grade.

Structures

- 21' split rail fencing

Signs

- None

Annual Maintenance

- Check for cracks or lifting of sidewalk
- Inspect split rail fencing
- Spot spray weeds
- Check erosion of ¼ x dust trail section
- Weeds will be knocked down with open space mowing

Deferred Maintenance

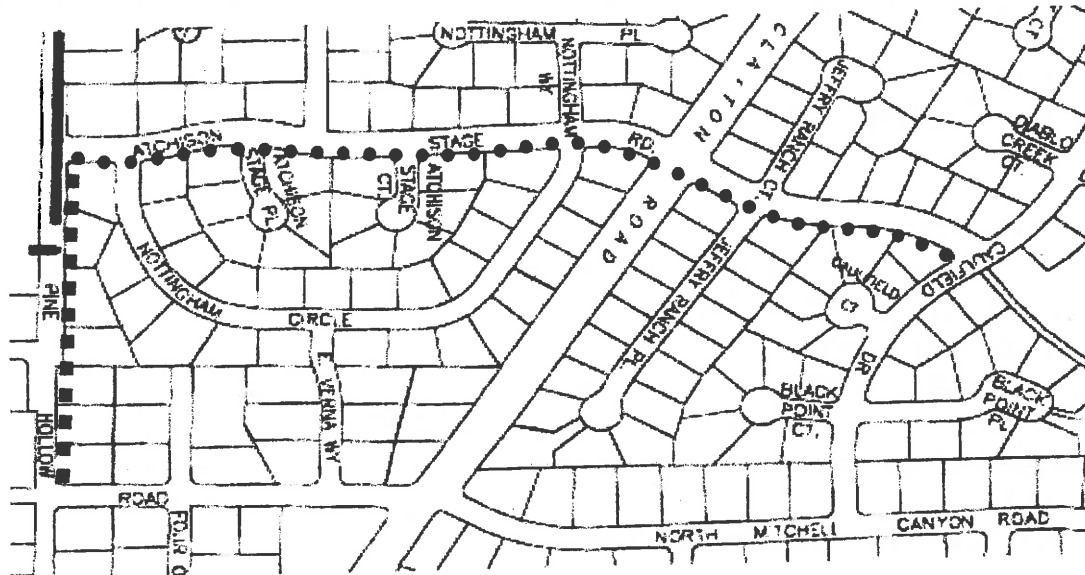
- None

Future Maintenance and Improvements

- None

Evaluation: This access path is used by residents and is often not mentioned when we talk about trails.

Atchinson Stage Trail



Atchinson Stage Trail
Pine Hollow Path - - - - -

Overview: The Atchinson Stage Trail runs north and south along Atchinson Stage Rd. It travels from Pine Hollow Rd. to Clayton Rd., crossing Clayton Rd; it then intersects with Caulfield Dr., where it finally meets Caulfield Path on its way to George Cardinet Trail. There are 2 sections to this trail. Atchinson Stage North, which runs from Clayton Rd. to Caulfield Dr. and Atchinson Stage which runs from Pine Hollow Rd. to Clayton Rd.

- **Access paths: Pine Hollow Path** runs a short distance along Pine Hollow Rd. between the street side houses and the city landscape. It runs east to west from Atchinson Stage Rd. to 200' west of Mitchell Canyon Rd.
- **Connecting trails:** Caulfield pathway meets Atchinson Stage Trail at the North end and then connects with Cardinet Trail.

Total traveled distance: .36 miles

Trail tread: ¼ x crushed gold rock – 2 x 6 wood border on one side – 5' x 1,212 – Level grade
– Level cross grade – Atchinson Stage North – 2 x 6 wood border on one side – 5' x 600' – Steep grade – Level cross grade -

Structures: None

Signs: None

NOTE: This trail is mainly used by neighborhood residents, but provides great access to Cardinet Trail.

Annual Maintenance

- Refill ¼ x crushed gold rock as needed.
- Check erosion caused by sprinklers
- Herbicide control twice a year
- Replace or repair 2x6 wood borders as needed
- Cut low lying limbs
- Spot spray weeds

Deferred Maintenance

- 20 yards gold rock
- Replace or repair 450' 2 x 6 border

Future Maintenance and Improvements

- Add 10 water bars to the Atchinson Stage North side.

NOTE: ¼ x crushed granite would help bring the cost of repairs down.

Evaluation: This has been a long forgotten trail section in Clayton. It would take little effort to repair this trail and add a fresh appearance to the surrounding landscape.

Access Paths**Pine Hollow Path**

Total traveled distance: .10 miles

Trail tread – ¼ x crushed granite – 2 x 6 wood border on one side – 5 x 525' – Level grade –

Level cross grade

Structures

- None

Signs

- None

Annual Maintenance

- Refill ¼ x crushed granite as needed.
- Herbicide control twice a year
- Spot spray weeds
- Check erosion caused by sprinklers
- Cut low lying limbs

Deferred Maintenance

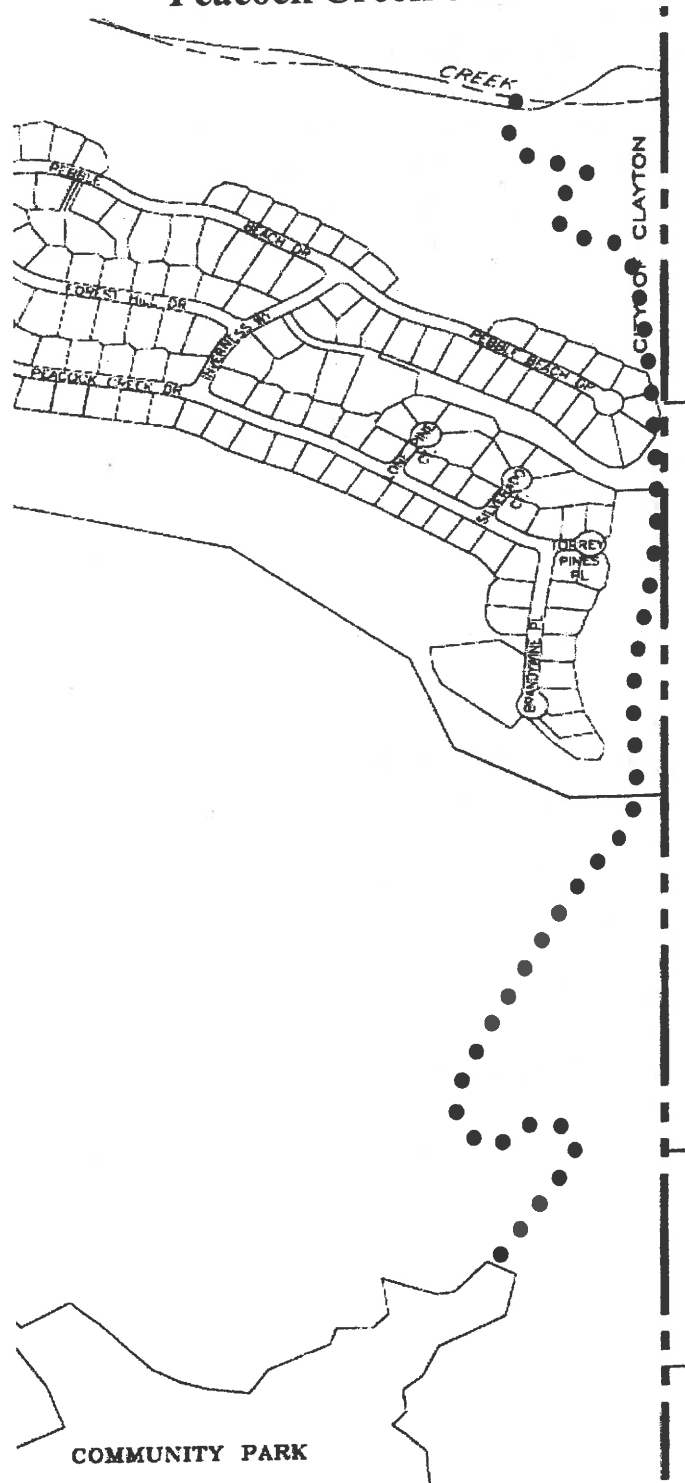
- Add 5 yds crushed granite

Future Maintenance and Improvements

- None to report

Evaluation: The landscaping in this area can be improved by repair to this trail.

Peacock Creek Trail



Overview: The Peacock Creek Trail travels from Black Diamond Trail, approximately $\frac{3}{4}$ of a mile northeast of the Black Diamond Trail crossing, and ends at the back canyon of the Clayton Community Park. It travels east up a very steep winding grade for approx. $\frac{1}{3}$ of a mile. Crossing a small foot bridge, the grade levels and follows a v-ditch along the backside of Peacock Creek Estates. Crossing over another small foot bridge the trail descends down a steep grade following the fire road and leading to the community park. This trail has 3 sections. The **Oak Hill Section** starts at the base of Black Diamond Trail and heads up to the ridge. The **Ridge**

Section follows along the backside of Peacock Creek Estates between the 2 foot bridges. The **Community Park Section** descends downward along the fire trail to the community park.

- **Access paths:** There are numerous cow trails, ranch roads, and fire roads along Peacock Creek Trail.
- **Connecting trails:** Black Diamond Trail – Clayton Community Park

Total traveled distance: 1.27 miles

Trail tread: 50% crushed granite, 50% dirt fire road – 1,400' single wood border – 1,600' double wood border – 1.27 miles – 75% Steep grade – 25% Level grade – 100% Steep cross grade

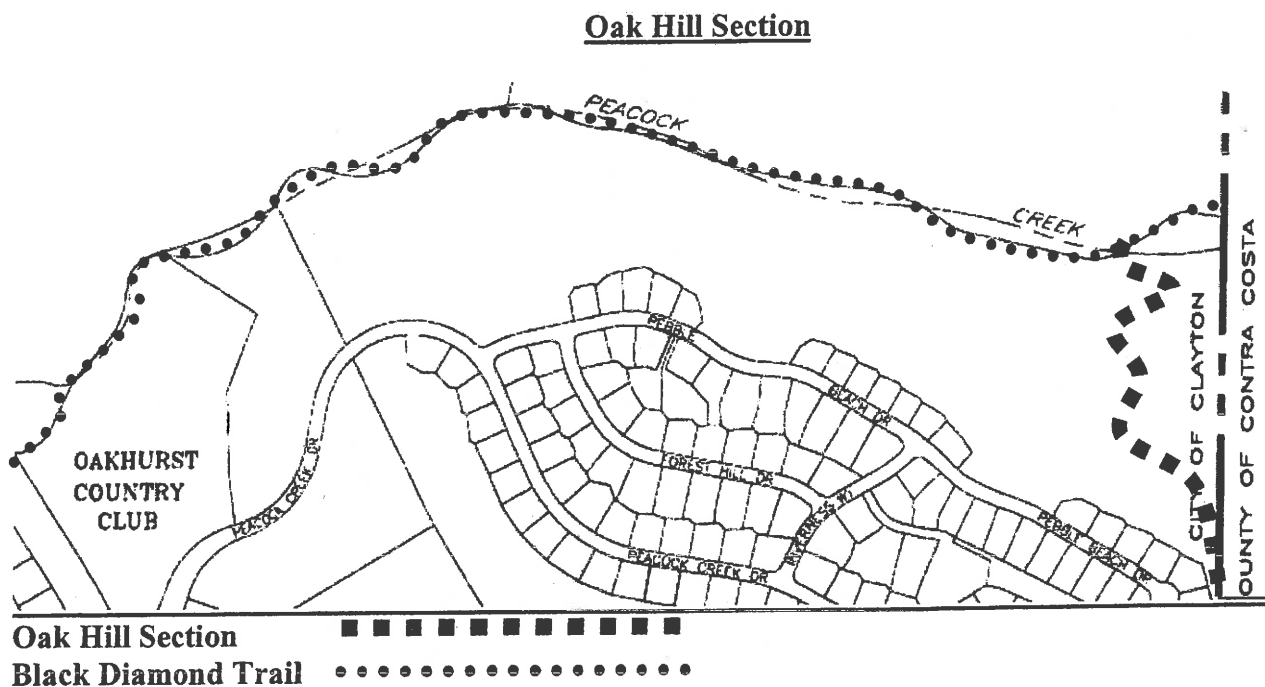
Structures:

- 24 - 2"x 6" wood water bars
- 2 - wood dodge ways with 3'x 4' chain linked gates
- 2 - 6'x 7' wood planked foot bridges

Signs:

- 4 – 8x8 wood trail markers with 4"x 6" TRAIL signs

NOTE: Many of the water bars have been removed or damaged. 24 is a best guess estimate of the number of water bars.



Trail tread – ¼ x Dust Base – 5' x 1,645' crushed granite 2x6 wood border on both sides – Steep grade – Steep cross grade.

Structures

- 12 – 2"x 6" water bars

Signs

- 2 – 8 x 8 wood trail markers with sign

Annual Maintenance

- Check grade and cross grade for signs of erosion caused by rain
- Inspect water bars for proper run off
- Replace or repair 2x6 wood borders as needed
- Replace or repair water bars as needed

- Inspect wood trail markers
- Replace or repair signs as needed
- Cut low lying branches
- Cut down weeds twice a year
- Herbicide control twice a year
- Refill ¼ x crushed granite as needed.
- Report and repair any holes caused by ground squirrels
- Report any bee hives

Deferred Maintenance

- Add 20 yds crushed granite
- Replace or repair 10 water bars
- Replace trail sign
- Replace approx. 200' of border along trail

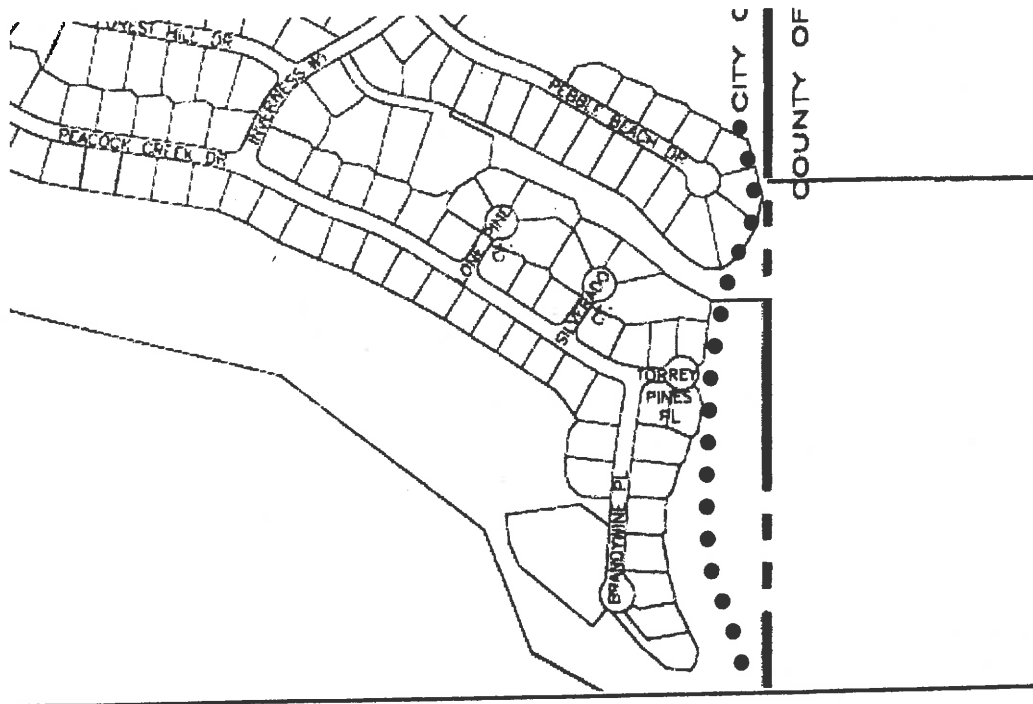
NOTES: Adding crushed granite to this section is very labor intense due to the steep grade and accessibility.

Future Maintenance and Improvements

- Adding 8 extra water bars could possibly prevent future erosion problems.

Evaluation: This stretch of trail has held up unusually well for the little amount of attention it gets. Spending time now to fix the erosion located on the trail will eliminate more dollars needed to repair possible erosion spreading to the cross grade slope. Adding extra water bars requires more maintenance, but prevents future erosion of trail slope.

Ridge Section



Trail tread – ¼ x crushed granite – 5' x 1,370' crushed granite 2x6 wood border on one side – Level grade – Steep cross grade.

Structures

- 2 – 7 planked 4x12 wood foot bridges

Signs

- None

Annual Maintenance

- Check for stability of foot bridges
- Repair or replace wood planks on bridges
- Check cross grade for signs of erosion caused by rain
- Replace or repair 2x6 wood borders as needed
- Cut down weeds twice a year
- Herbicide control twice a year
- Refill ¼ x crushed granite as needed.
- Report and repair any holes caused by ground squirrels

Deferred Maintenance

- Add 15 yds crushed granite
- Replace or repair approx. 200' 2x6 wood border

NOTE: Access to this section is possible from Inverness way

Future Maintenance and Improvements

- 36" steel stakes should be used to replace the wood ones for the 2x6 border. Erosion control netting could be used to help stabilize the cross grade.

Evaluation: This section of trail needs to have the border repaired and replaced to prevent the hill from eroding. This trail also borders a v-ditch for drainage that will greatly be affected by any erosion to the trail. Ground squirrel control in this area could be beneficial.

Canyon Section



Trail tread – Dirt Fire Road – 20' x 1,645' – gravel and dirt – 5'x 578' ¼ x crushed granite 2x 6 wood borders on both sides – 75% Steep grade 25% Gradual grade– Sloped cross grade.

Structures

- 2 - wood dodge ways 3'x 3' chain linked gate
- 12 – 2"x 6" water bars

Signs

- 1 – 8 x 8 wood trail markers with 4"x 6" TRAIL signs

Annual Maintenance

- Check grade and cross grade for signs of erosion caused by rain
- Inspect water bars for proper run off
- Check for damage on wood dodge way
- Inspect wood markers
- Replace or repair signs as needed
- Replace or repair 2x6 wood borders as needed
- Replace or repair water bars as needed
- Refill ¼ x crushed granite as needed.
- Report and repair any holes caused by ground squirrels

Deferred Maintenance

- Add 10 yds crushed granite
- Replace or repair 10 water bars
- Replace approx. 100' of border along trail
- Repair or replace 8x8 wood marker

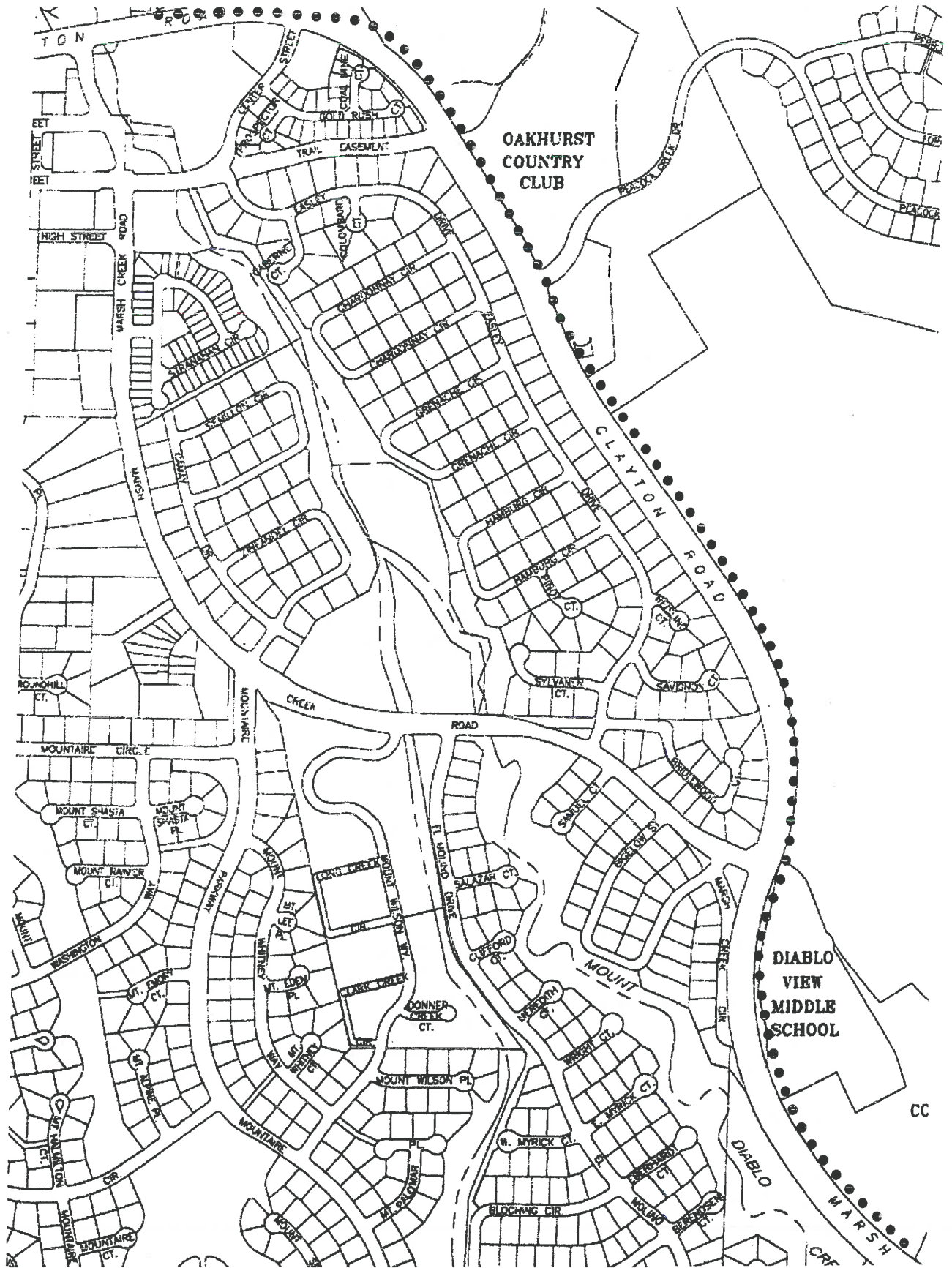
NOTES: This section of trail can be accessed along the fire trail

Future Maintenance and Improvements

- This section of trail is primarily maintained by the fire department.
- Both ends of the trail need repairs due to neglect.
- Adding ¼ x crushed granite to the park entrance of this trail will enhance its visibility for trail users.
- Additional signage would make this trail more appealing to users.

Evaluation: This trail is a very open and friendly trail. Many hikers take their dogs along this trail. It is comprised mainly of fire and ranch roads with a ¼ x crushed granite section on a steep grade bordered and lined with water bars. This portion connects to the ridge section, and needs to be repaired to avoid future erosion of the tread slope. Better signage would greatly enhance this trail visibility.

Diablo View Trail



- Refill crushed gold rock as needed.
- Refill crushed granite as needed
- Report and repair any holes caused by ground squirrels

Deferred Maintenance

- Add 5 yds crushed granite
- Add 5 yds crushed gold rock
- Replace approx. 200' of border along trail

Future Maintenance and Improvements

- None to report

Evaluation: This trail could use some fresh gold rock and wood border repair. We have to keep an eye on low lying branches and broken sprinklers. Keeping the weeds down by spot spraying gives it a more pleasant appearance. This trail is in fairly good shape.

The Flats Trail



Trail tread – ¼ x crushed granite – Double sided 2x6 wood border – 4’ wide x 2,787’ long – Level grade – Sloped cross grade.

Structures

- None

Signs

- None

Annual Maintenance

- Check grade and cross grade for signs of erosion caused by rain
- Check wood borders
- Replace or repair 2x6 wood borders as needed
- Cut down weeds twice a year
- Herbicide control twice a year
- Refill $\frac{1}{4}$ x crushed granite as needed.
- Report and repair any holes caused by ground squirrels

Deferred Maintenance

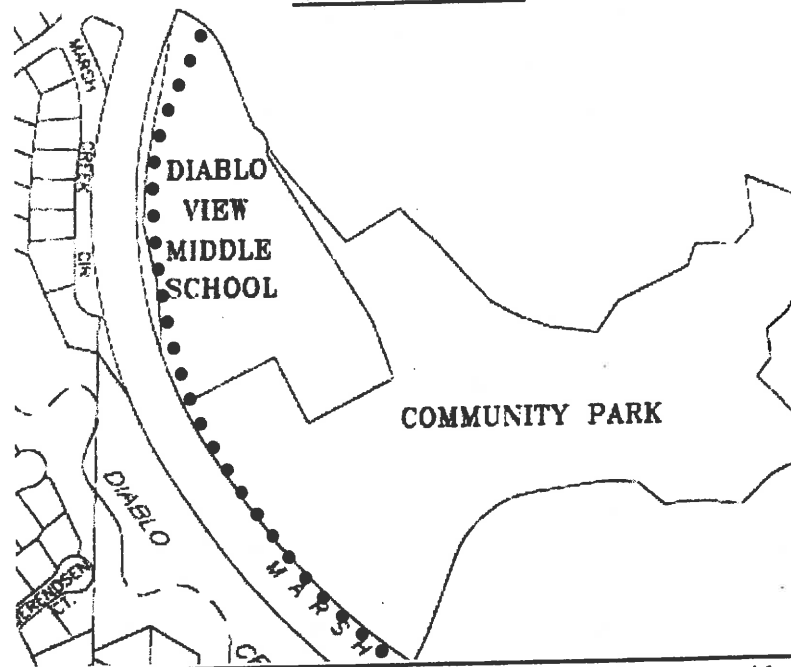
- Add 20 yds crushed granite
- Replace approx. 1000' of border along trail

Future Maintenance and Improvements

- Eliminate wood border on some portions of trail.

Evaluation: Areas where the trail has a steeper cross grade would need to maintain the border, but areas where the trail is wide can be eliminated. This would also aid in the annual mowing which often times destroys the border sections that have been lifted. Adding $\frac{1}{4}$ x crushed granite will give this trail a fresh new look.

The School Trail



Trail tread – $\frac{1}{4}$ x crushed granite – Double sided 2x6 wood borders – 4' wide x 1,761' long –
Level grade – 50% Sloped cross grade – 50% Level cross grade

Structures

- 40' wood retaining wall

Signs

- None

Annual Maintenance

- Check grade and cross grade for signs of erosion caused by rain
- Spot spray weeds as needed
- Cut low lying branches
- Inspect retaining wall

- Replace or repair 2x6 wood borders as needed
- Herbicide control twice a year
- Refill ¼ x crushed granite as needed.
- Report and repair any holes caused by ground squirrels

Deferred Maintenance

- Add 10 yds crushed granite
- Replace or repair 10 water bars
- Replace approx. 100' of border along trail
- Repair or replace 8x8 wood marker
- Repair approx. 15' retaining wall

Future Maintenance and Improvements

- None to report

Evaluation: This section will need to be checked for broken sprinklers and irrigation run-off from the park. Piracantha along the park section also needs to be cut back as needed. This trail is well traveled by the community and can be maintained at a relatively low cost provided that we perform regular maintenance checks and correct smaller problems in a timely manner.

Access Paths

Center Street Path

Total traveled distance: .28 miles

Trail tread – ¼ x crushed granite – 6' x 1,238' – Asphalt – 8' x 1,134 – Level grade – Level cross grade

Structures

- None

Signs

- None

Annual Maintenance

- Crack seal pathway
- Refill ¼ x crushed granite as needed.
- Herbicide control twice a year
- Spot spray weeds
- Check erosion caused by sprinklers
- Inspect v-ditches

Deferred Maintenance

- Add 5 yds crushed granite

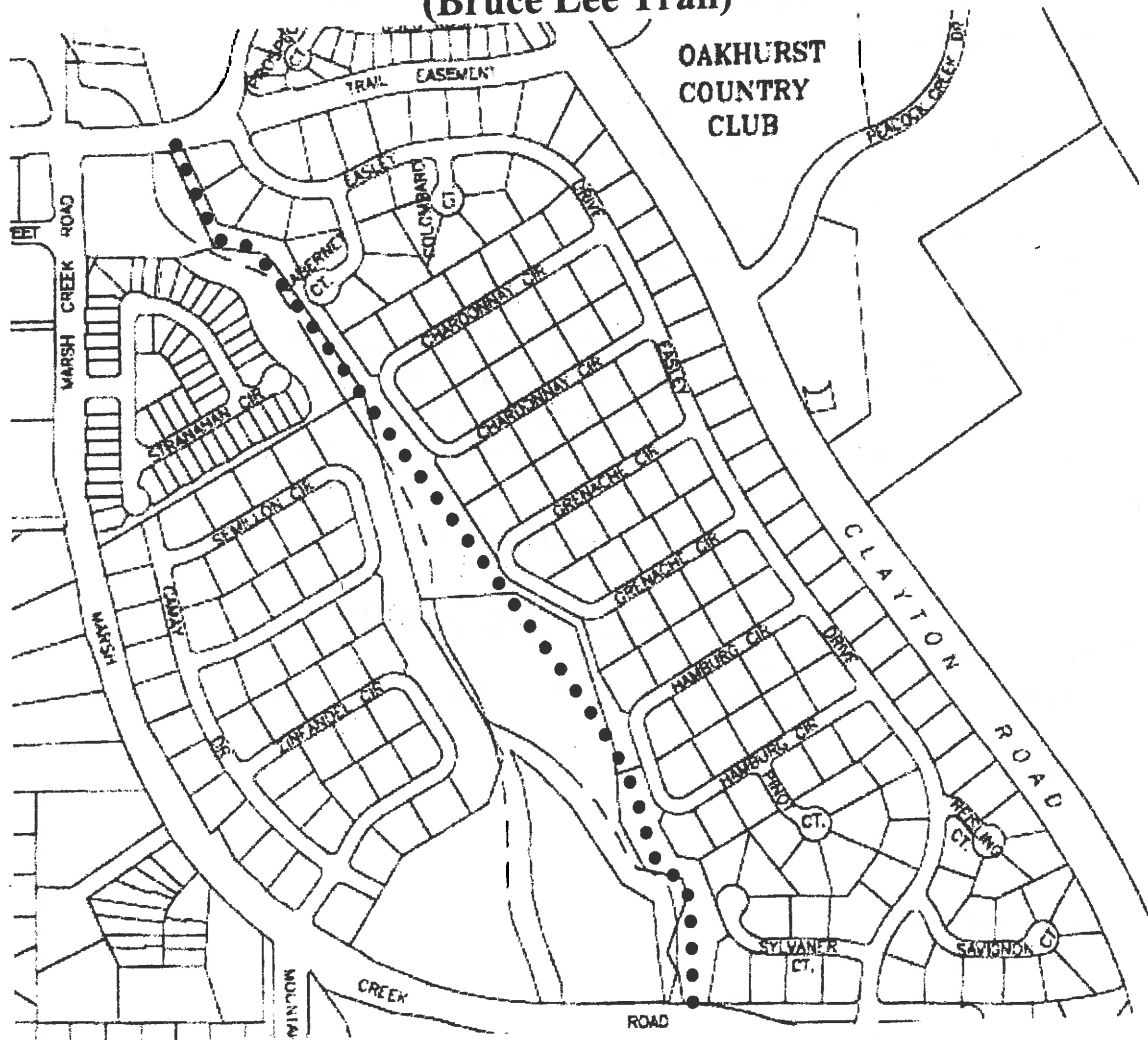
Future Maintenance and Improvements

- None to report

NOTES: Ceanothus bushes can get out of control and block v-ditch.

Evaluation: The Center St. trail needs to be checked for signs of erosion caused by sprinklers and landscape and debris need to be cleared in the v-ditch to prevent ruts caused by run-off on the pathway.

***Upper Easley Trail*
(Bruce Lee Trail)**



Overview: The Upper Easley Trail begins approx. 100' west of Easley Dr. and Center St. near the downtown area. It travels southeast between Easley estates and Mt. Diablo creek where it intersects Marsh Creek Rd.

- **Access pathways:** There are many short access paths from neighboring streets
- **Connecting trails:** Lower Easley Trail – Mt. Diablo Creek Trail – Center St. Trail – Plaza Trail

Total traveled distance: .56 miles

Trail tread: Asphalt base with a chip seal surface – 7' wide x 2,952' long - Level grade – Level cross grade. Borders steep drop off into creek.

Structures:

- 38' round 3 rail wood railing

Signs:

- 3 - 6x6 wood mile markers
- 2 - metal signs 48" x 24"

NOTE: There are 5 small access paths that lead to the neighborhood streets. Their widths range from 6' wide to 21' wide. Approx. 1000 sq ft of asphalt with chip seal surface.

Annual Maintenance

- Check asphalt for excessive cracking and seal as needed

- Check mile markers
- Replace or repair signs as needed
- Herbicide control twice a year
- Cut down weeds twice a year
- Report erosion of creek banks
- Check wood railing

Deferred Maintenance

- Crack seal entire length of path
- Repair wood railing
- Replace 4 sections approx. 328 linear feet of pathway

Future Maintenance and Improvements

- New chip seal coat
- Resurface with smooth asphalt

NOTE: This stretch of trail would be greatly enhanced with a smooth finish. It would open up the trail to many different types of activities, including, roller blading, skateboarding, and commuting, adding to the quality of life in Clayton.

Evaluation: This trail is in fairly good shape. There are some minor sections of increased cracking, but block cracking covers most of the trail. Crack sealing the entire path added to a new chip seal surface would keep this trail looking good for years to come.

Lower Easley Trail



- Lower Easley Trail**
- Stranahan Path**
- Oak St. Path**
- Mudville Path**

Overview: The **Lower Easley Trail** is a small neighborhood trail that leads to many surrounding areas including **Upper Easley Trail**, **Mudville Path** to the downtown area, and **Stranahan Path** to Marsh Creek Rd. It stretches north and south leading from the Easley Estate to Stranahan subdivision following along Mt. Diablo Creek. A (Connector path) allows you to cross a bridge and continue up to Upper Easley Trail. The south end of the trail is where Donner Creek flows into Mt, Diablo Creek, and the north end of the trail divides into 2 separate trails that lead to Marsh Creek Rd. and the downtown area.

- **Access pathways:** The **Stranahan Path** splits off to the left from Lower Easley Trail heading north to Marsh Creek Rd. The **Oak St. Path** runs north to south between Oak St. and Marsh Creek Rd. across from the Stranahan Path. The **Mudville Path** splits off to the right heading north to the parking lot behind Mudville Grill.
- **Connecting trails:** Upper Easley Trail – Mudville Trail – Stranahan Trail

Total traveled distance: .23 miles

Trail tread: Asphalt base with a chip seal surface – 6' wide x 1,200' long - Level grade – Level cross grade. (Connector path) Asphalt base with chip seal surface 6' wide x 300' long – Sloped grade – Sloped cross grade.

Structures:

- 6' x 50' iron bridge with 2x12 wood planks.

NOTE: There are no identification markings on the bridge.

Signs:

- None

NOTE: There are 2 small access paths that lead to the neighborhood streets. Their widths are approx. 7" wide. Approx. 250 sq ft of asphalt with chip seal surface.

Annual Maintenance

- Check asphalt for excessive cracking and seal as needed
- Cut low lying branches
- Herbicide control twice a year
- Cut down weeds twice a year
- Report erosion of creek banks
- Inspect bridge planks
- Inspect bridge footings

Deferred Maintenance

- Crack seal entire length of path

Future Maintenance and Improvements

- New chip seal coat
- Resurface with smooth asphalt

NOTE: It is always an improvement to have a smooth surface on this type of trail.

Evaluation: This trail is in fairly good shape. There are some block cracking covering most of the trail. Crack sealing the entire path added to a new chip seal surface would keep this trail looking good for years to come. Many oaks have been planted in the last 5 -10 years in this section of trail. These oaks will need to be trimmed away from the trail in the near future.

Access Paths **Stranahan Path**

Total traveled distance: 650 feet

Trail tread – ¼ x crushed granite 5' x 650' – Level grade – Level cross grade. 25' x 15' crushed granite seating area

Structures

- 2 - 6' backed wood benches with metal frames

Signs

- None

Annual Maintenance

- Inspect benches
- Spot spray weeds
- Refill ¼ x crushed granite as needed.
- Cut down weeds twice a year
- Herbicide control twice a year

Deferred Maintenance

- Repair lip around catch basin

Future Maintenance and Improvements

- None

Evaluation: This is a small access trail that gets little use, so maintenance should be minimal.

Oak St. Path

Total traveled distance: 952 feet

Trail tread – ¼ x crushed granite 12' x 952' – Steep grade – Level cross grade.

Structures

- 1 - Asphalt V- ditch 3' x 314' long
- 2 - Asphalt V-ditches 3' x 438' long

Signs

- None

Annual Maintenance

- Inspect V-ditches
- Spot spray weeds
- Refill ¼ x crushed granite as needed.
- Herbicide control twice a year
- Check for erosion of hill
- Cut down weeds twice a year
- Check catch basins at each end of trail.

Deferred Maintenance

- Clean and expose V-ditches

Future Maintenance and Improvements

- None

Evaluation: Drainage issues on the hill pose a problem for erosion on this trail.

Mudville Path

Total traveled distance: 650 feet

Trail tread – 2 trails – Asphalt base – 4' x 650' – Level grade with – Level cross grade – ¼ x crushed granite – 4' x 550' Level grade – Level cross grade

Structures

- 28' split rail fencing

Signs

- None

Annual Maintenance

- Crack seal pathway

- Cut down weeds twice a year
- Spot spray weeds
- Refill ¼ x crushed granite as needed
- Herbicide control twice a year

Deferred Maintenance

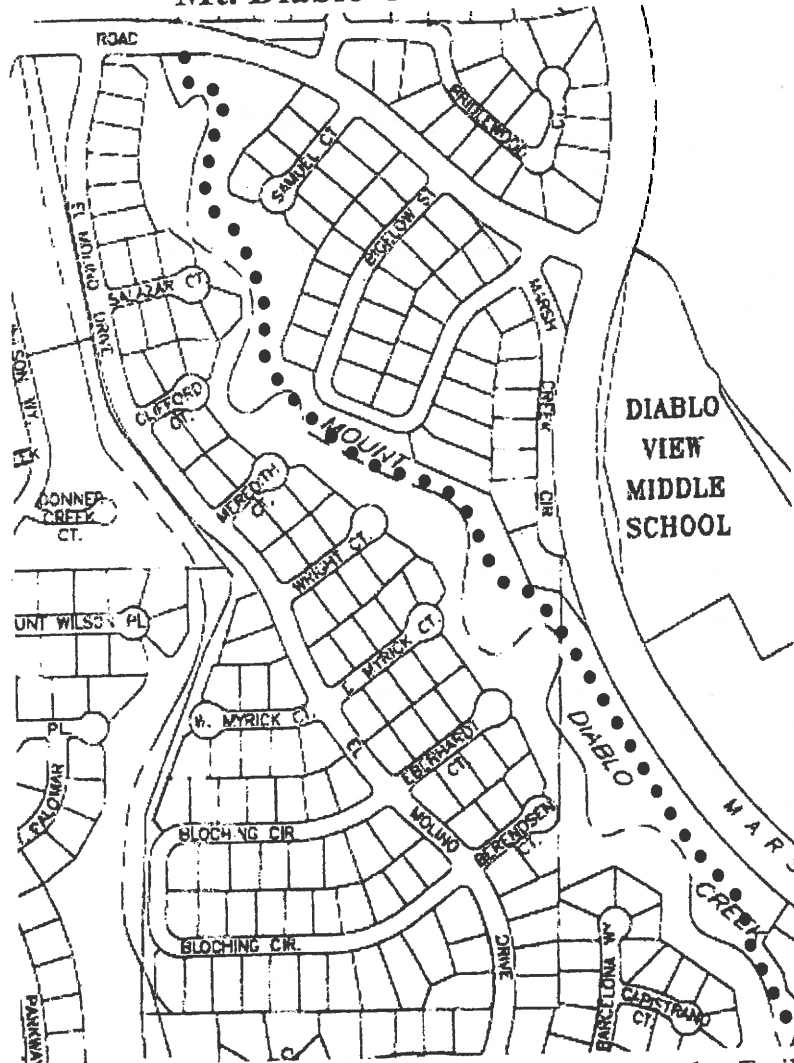
- None

Future Maintenance and Improvements

- None

Evaluation: This trail is in good shape.

Mt. Diablo Creek Trail



Overview: The Mt. Diablo Creek Trail Begins at the end of Upper Easley Trail on Old Marsh Creek Rd. ending at Regency Dr. It travels northeast along Mt. Diablo Creek through open space areas adjacent to the neighborhood. There are 4 small access paths by the city dog park.

- **Access paths:** There are many short access paths from neighboring streets.
- **Connecting trails:** Upper Easley Trail

Total traveled distance: .67 miles

Trail tread: Asphalt base with a chip seal surface – 6’ wide x 3,543’ long - Level grade – Level cross grade. Some areas are bordered by steep cliffs down to the creek. There is approx. 350’ of steep hill in the middle section of the trail.

Structures:

- 20' round 3 rail wood railing – 5 posts

Signs:

- 3 – 6 x 6 wood mile markers

NOTE: There are 4 small access paths that lead to the neighborhood streets. Their widths are approx. 6' wide totaling approx. 1700 sq ft of asphalt with chip seal surface.

Annual Maintenance

- Check asphalt for excessive cracking and seal as needed
- Check mile markers
- Check for graffiti
- Herbicide control twice a year
- Cut low lying limbs
- Cut down weeds twice a year
- Report erosion of creek banks
- Check wood railing

Deferred Maintenance

- Crack seal entire length of path
- Repair wood railing
- Replace 1 sections approx.300 linear feet of pathway (by man hole)
- Replace 1 section 10 x 15 sq ft (top of hill by catch basin)

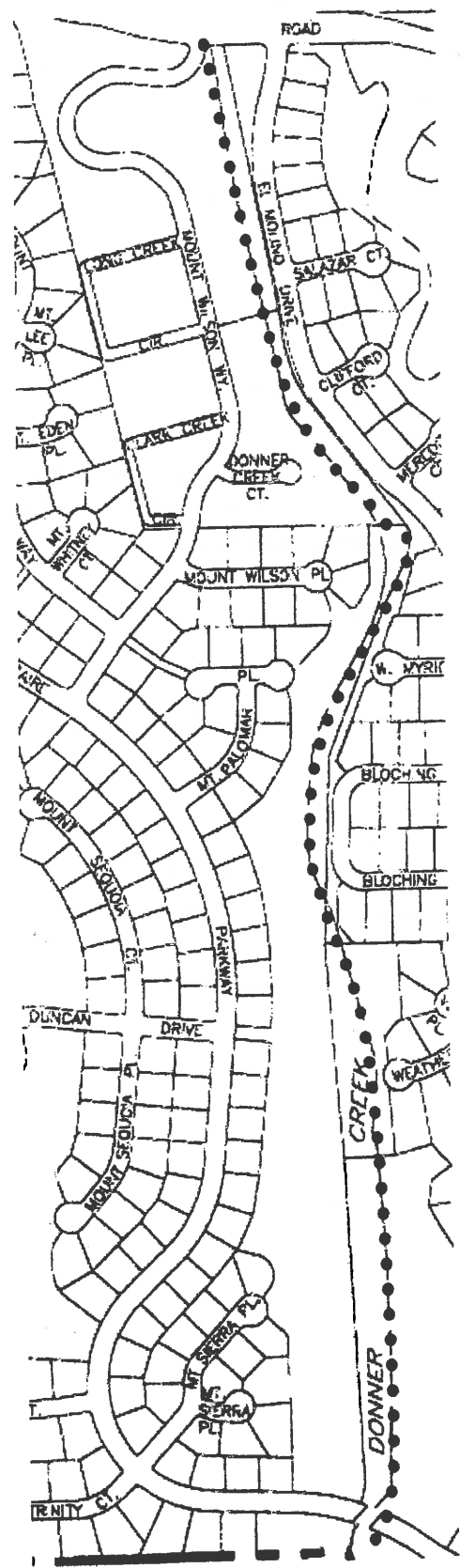
Future Maintenance and Improvements

- New chip seal coat (upper section of trail)
- Resurface (lower section of trail)

NOTE: The City of Concord accesses this area to service our sewer system. This should be taken into account with any improvements to this area.

Evaluation: This trail is in the worst shape of all the cities asphalt trails. The lower section of this trail is experiencing approx. 75% cracking along all areas. There is approx. 1500' that needs to be replaced. Crack sealing would not even provide much of a band aide. The 350' hill portion of this trail has multiple spider cracks and needs to be replaced in the near future. The upper portion of this trail has a small 150 sq ft section that needs to be replaced, but otherwise can be crack sealed to prevent further block cracking.

Donner Creek Trail



Overview: The Donner Creek Trail begins at El Molino Park at the corner of Old Marsh Creek Rd. and El Molino Dr. It follows Donner Creek and El Molino Dr. for approx. 1500' and then continues along Donner Creek behind the neighborhood homes. It has a 75% asphalt base and a 25% crushed granite base. The end of the trail leads you to the Donner Creek entrance of Mt. Diablo State Park

- **Access paths:** There are 2 access roads leading to this trail. They are open space access roads, and are maintained when servicing open space.
- **Connecting trails:** None

Total traveled distance: .68 miles

Trail tread: Asphalt base with a chip seal surface – 7' wide x 1,454' long – Level grade – Level cross grade. Asphalt base with a chip seal surface – 6' wide x 1,220' long – Level grade – Level cross grade. ¼ x crushed granite – 6' x 934' – Level grade – Level cross grade

Structures:

- 4 – wood benches
- 1 – chained entrance with 2 8x8 posts and 3 steel poles

Signs:

- 2 – 6 x 6 wood mile markers
- 1 – metal signs 48" x 24"

Annual Maintenance

- Check asphalt for excessive cracking and seal as needed
- Check mile markers
- Lube locks on chained gate
- Check reflectors on chain
- Replace or repair signs as needed
- Herbicide control twice a year
- Cut down weeds twice a year
- Report erosion of creek banks
- Repair or replace benches as needed
- Cut down low lying limbs
- Refill ¼ x crushed granite as needed

Deferred Maintenance

- Crack seal entire length of path
- Repair 1 section approx. 15 sq ft asphalt along El Molino Dr.
- Repair approx. 100 sq ft of path before gate
- Remove and repair crushed asphalt after gate.
- Add 10 yards crushed granite

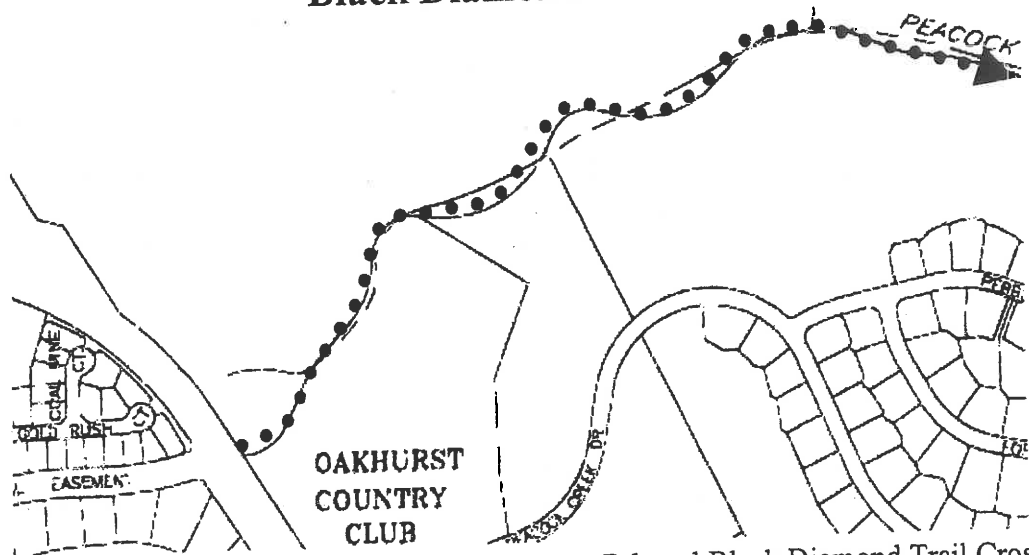
Future Maintenance and Improvements

- New chip seal coat
- Remove crushed asphalt after gate and replace with crushed granite.
- Resurface Chip seal with smooth asphalt

NOTE: All chip sealed surface trails could be enhanced with a smooth surface.

Evaluation: This trail is in fairly good shape. There are some areas that need to be replaced, repaired, or removed, but otherwise this trail looks good.

Black Diamond Trail



Overview: The Black Diamond Trail starts at Clayton Rd. and Black Diamond Trail Crossing, and travels northeast for approx. $\frac{1}{4}$ miles. From there it connects to the Peacock Creek Trail, Blue Oak Trail, or continues up the East Bay Parks Black Diamond Trail. This is a public access road used by the ranchers, a variety of utilities and the fire department. Although the first mile of this road is owned by the city, we have never done any maintenance on it. Our main responsibility here is the parking area located at the trail entrance.

- **Access paths:** None
- **Connecting trails:** Diablo View Trail – Center St. Path – Blue Oak Trail – Peacock Creek Trail

Total traveled distance: .56 miles

Trail tread: Gravel fire road – 7' wide x 2,952' long - Level grade – Level cross grade. Borders steep drop off into creek.

Structures:

- 1 – steel access gate

Signs:

None

Annual Maintenance

- Keep entrance clear

Deferred Maintenance

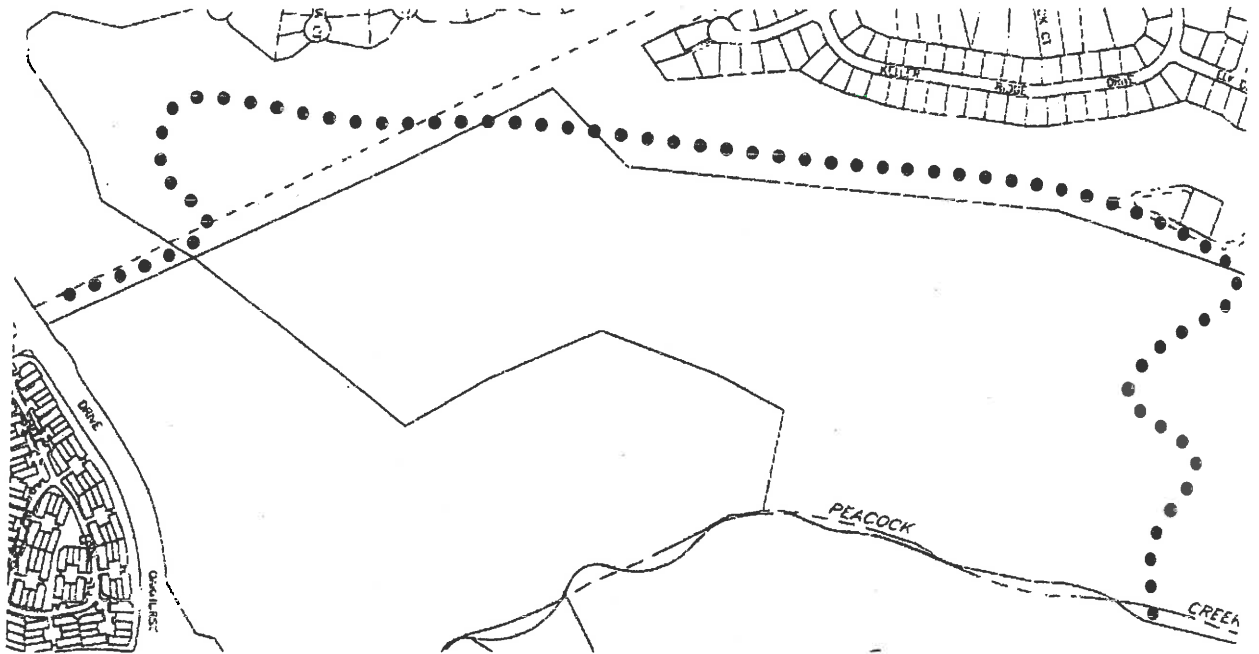
- Refill $\frac{1}{4}$ x crushed granite in parking area

Future Maintenance and Improvements

- Figure out gate situation

Evaluation: As stated before, the East Bay Parks and the fire department keep this road clear. The entrance gate was installed by the developer. Maintenance has never been determined, but I'm sure it will fall on us. Who puts what lock on the gate is an ongoing problem yet to be resolved.

Blue Oak Trail



Overview: The Blue Oak Trail travels from approx. $\frac{3}{4}$ of a mile east of the Black Diamond Trail Entrance to the 16th tee of the Oakhurst Country Club, located just off of Indianhead Way. It is one of the steepest trails in the city climbing to just over 1000'. It runs into Oakhurst Ridge Trail and follows it for approximately .9 miles, and then descends down to the Indianhead Way / Clayton Rd. intersection. This trail is divided into 2 distinct sections. The Hill Trail starts $\frac{3}{4}$ of a mile east of the Black Diamond Trail Entrance, and travels north up a very steep grade through several switch backs until it reaches the asphalt water tower road and connects with the Oakhurst Ridge Trail. The Oakhurst Ridge Trail carries the Blue Oak Trail for about another mile where it picks up at the Indianhead Trail and travels down to the dodge way located on the 16th tee. A short walk along the golf cart path carries you to the Indianhead Way intersection.

- **Access pathways:** None
- **Connecting trails:** Oakhurst Ridge Trail - North Valley Trail – Black Diamond Trail

Total traveled distance: 1.64 miles

Trail tread: Dirt foot path – 6' wide x 2,727' long - Steep grade – Steep cross grade – Fire road – 12' x 550' - Slope grade – Steep cross grade (4,849' of the traveled distance is part of the Oakhurst Ridge Trail)

Structures:

- 3 – wood dodge ways with gate
- 1 – chained access gate

Signs:

- 3 – 8 x 8 wood trail markers
- 2 - 4 x 6 metal signs

Annual Maintenance

- Check wood doge ways and gate
- Check trail markers

- Replace or repair signs as needed
- Lube locks on chained gate
- Check reflectors on gate

Deferred Maintenance

- Replace 2 missing signs
- Add reflectors to chain on gate

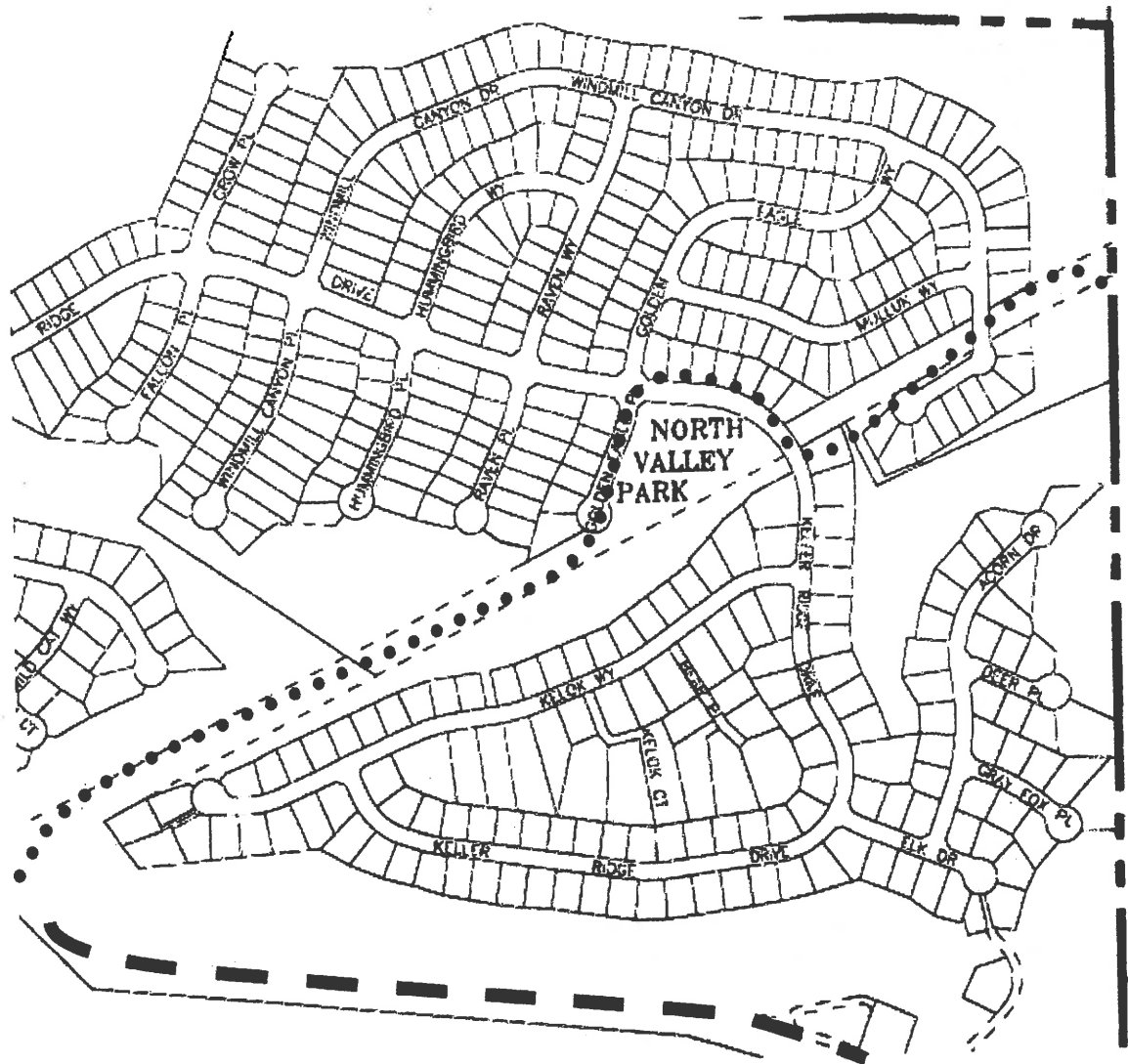
Future Maintenance and Improvements

- Add 3 each 6 x 18 Blue Oak trail

NOTE: This trail needs more signage to be more visual to hikers. It is a great trail that hardly gets used.

Evaluation: This trail is not very accessible to perform too many maintenance tasks. The best ways to maintain trails such as these are to have hikers use them. The best maintenance services on this trail are performed by the cattle.

North Valley Trail



North Valley Trail

Oak Ridge / Blue Oak Trail - - - - -

Overview: The North Valley Trail travels northeast by southwest from the Oakhurst Ridge Trail to the city limits by Windmill Canyon Way. It travels behind the Kelok Dr., through North

Valley Park, and then continues to the county fire road located just behind Windmill Canyon Way.

- **Access pathways:** Accessible from Kelok Dr.

- **Connecting trails:** Blue Oak Trail – Oakhurst Ridge Trail – North Valley Park

Total traveled distance: .74 miles

Trail tread: Dirt fire road – 15' wide x 3,042' long – 67% Level grade – sloped cross grade – 33% sloped grade – level cross grade. Dirt foot path – 3' x 625' – Level grade – sloped cross grade.

NOTE: Sections of this trail are carried by North Valley Park and paved roadways

Structures:

- 1 – wood dodge way

Signs:

- 4 – 8 x 8 wood trail markers
- 4 – 4" x 6" metal signs
- 2 – 6" x 18" metal signs
- 2 – 4" x 6" metal signs on 4 x 4 posts
- Chained gate

Annual Maintenance

- Check mile markers
- Lube locks on chained gate
- Check reflectors on chain
- Replace or repair signs as needed
- Cut down weeds twice a year
- Herbicide control twice a year
- Check wood dodge way

NOTE: The only section of this trail that we do weed abatement is the foot path located between Keller Ridge Dr. and Windmill Canyon Way.

Deferred Maintenance

- Replace and repair signs and markers

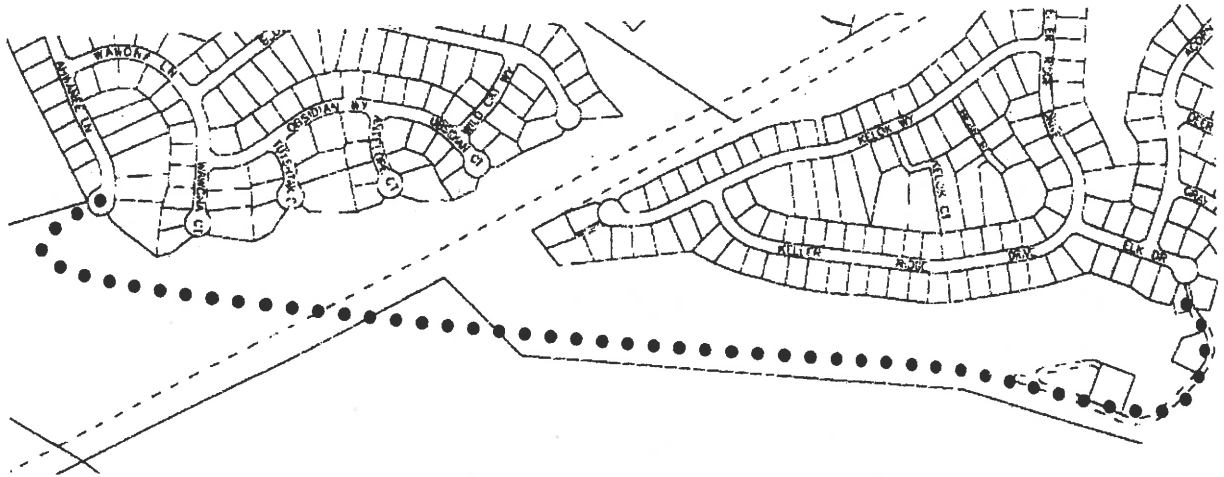
Future Maintenance and Improvements

- Add 2 each 8 x 8 trail markers with signs at North Valley Park
- Add 1 each trail marker at Windmill Canyon
- Install 2 posts and chain with reflectors at the end of Golden eagle Way

NOTE: The chained gate has been removed for unknown reasons.

Evaluation: Although this trail is a great access trail to other trails in the city, it is primarily an access road for the fire department and the water district. This trail originally went straight through North Valley Park, crossing Keller Ridge Dr. on a blind corner. Signage was later added to guide you to the crosswalk at Keller Ridge Dr. and Golden eagle Place, to make it safer. Additional signage should be added to guide hikers to Blue Oak Trail and Oakhurst Ridge Trail. The trail ends at an empty lot between 2 houses located on Windmill Canyon Way, from there it heads out of Clayton and into county agricultural lands. All city weed abatement is done through our open space management program.

Oakhurst Ridge Trail



Overview: The Oakhurst Ridge Trail travels east to west from the end of Ahwanee Ct. to the end of Elk Dr. It follows along the Blue Oak Hill ridgeline. It is a fire access road that is used by many hikers.

- **Access pathways:** None
- **Connecting paths:** North Valley Trail – Blue Oak Trail

Total traveled distance: .88 miles

Trail tread: Dirt fire road – 12' wide x 4,628' long – 35% steep grade – 30% sloped grade – 35% Level grade – Sloped cross grade.

Structures:

- 2 – wood dodge ways
- 1 – chained gate access

NOTE: There are 2 – metal gates maintained by other

Signs:

- 2 – 8 x 8 wood trail markers
- 2 – 6 x 12 wood trail markers
- 2 – 6 x 18 trail signs

Annual Maintenance

- Check for damage on wood dodge ways
- Check trail markers
- Replace or repair signs as needed
- Check chain across gate
- Lube locks on chained gate
- Check chain reflectors
- Check v-ditches

Deferred Maintenance

- Replace 2 each 4" x 6" trail signs
- Replace 2 each 6" x 18" trail signs
- Add 2 reflectors on chain

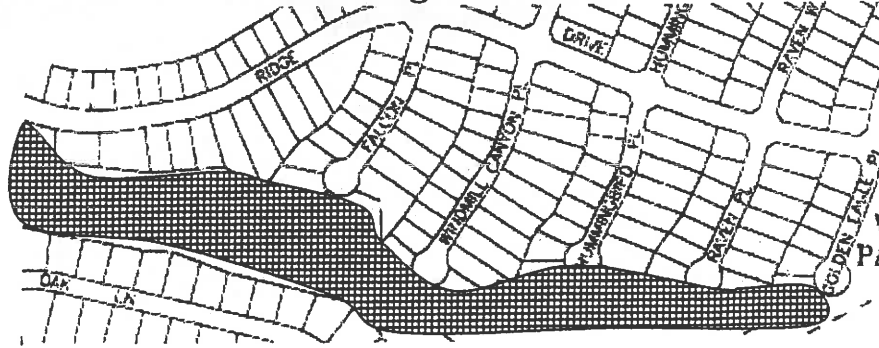
Future Maintenance and Improvements

- Add additional trail markers with signs

Evaluation: This trail connects with other great trails in the hills. Better trail signage would help identify which trail you were on and possibly increase the usage.

The trail is maintained as a fire road and portions, a water tower access road. It is primarily maintained by the fire district while doing their annual fire breaks. The dodge ways, trail markers, and signs, are maintained by the city. All city weed abatement is done through our open space management program.

Keller Ridge Access Trails



Overview: The Keller Ridge access trails run along the south side of Keller Ridge Dr. The first trail marker is located approx. 50' from the golf cart path, and then intertwines behind the cul-de-sacs to North Valley Park. They are non-designated foot paths running all along the hillside under the oak trees. They are mainly used by the residents and maintenance is minimal due to the non-distinctive trails. These trails are basically foot paths maintained through usage.

- **Access pathways:** None
- **Connecting paths:** North Valley Trail

Total traveled distance: Varied

Trail tread: Dirt foot paths of varied lengths and grades – Steep cross grades

Structures:

- 4 – wood dodge ways

Signs:

- 5 – 8 x 12 wood trail markers with 4" x 6" signs

Annual Maintenance

- Check for damage on wood dodge ways
- Check trail markers
- Replace or repair signs as needed

Deferred Maintenance

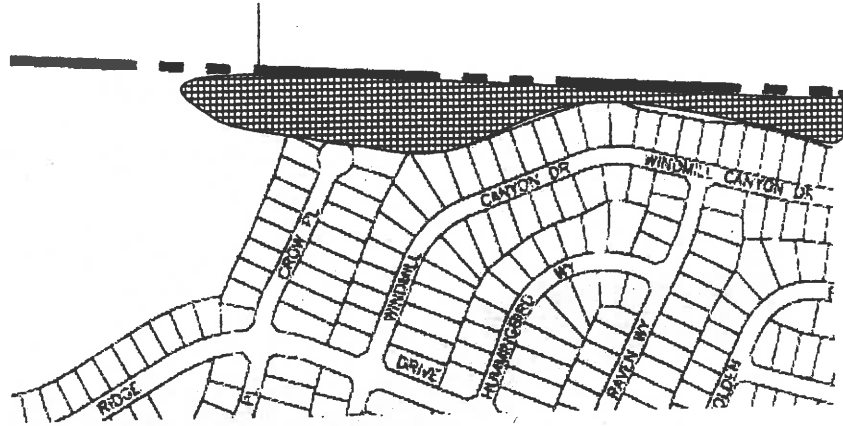
- Replace 1 each 4" x 6" trail signs

Future Maintenance and Improvements

- None to report

Evaluation: This trail is more of a series of access entry ways to the open space hills between Keller Ridge Dr. and Kelok Dr. Maintaining the dodge ways and trail marker signs will be our main responsibility at this time.

Crow Place Trail Access



Overview: The Crow Pl. trail access allows entry to the hillsides north of Windmill Canyon Rd. It runs east and west along the city limit open space areas.

- **Access pathways:** None
- **Connecting paths:** None

Total traveled distance: Varied

Trail tread: Dirt foot paths of varied lengths and grades – Steep cross grades

Structures:

- 2 – wood dodge ways
- 80' railroad tie and cobble stair

Signs:

- 2 – 8 x 12 wood trail markers with 4" x 6" signs

Annual Maintenance

- Check for damage on wood dodge ways
- Check trail markers
- Replace or repair signs as needed
- Clean washed mud from stair

Deferred Maintenance

- Repair cobbled stair

Future Maintenance and Improvements

- None to report

Evaluation: This trail is an access entry way to the open space hills between Windmill Canyon Rd. and the city limits. There are some concerns with the run off at the end of Crow Pl., but this is more of an open space problem than a trail problem. Maintaining the dodge ways, cobbled stair, and trail marker signs will be our main responsibility at this time.

Master inventory list

TRAIL TREAD	Approx. Quantity
¼ x crushed granite	3.66 miles
¼ x crushed gold rock	.56 miles
Asphalt chip seal surface	2.8 miles
Asphalt smooth surface	.43 miles
Fire road	2.4 miles
Foot path	.63 miles
2"x6" wood border	3.6 miles
STRUCTURES	
V-ditches (granite)	335 feet
v-ditches (asphalt)	782 feet
Bridges (iron)	7
Wood split rail fencing	180 feet
Round 3 rail wood railing	96 feet
Water bars	24 - 4"x 6"x 8'
Benches	12 - wood
Backed benches	2 - wood & iron
Dodge ways	13
Planked bridges	2 - 6'x 7'
Gate (chained)	3
Gate (iron)	3
Railroad ties	28 - 5 feet long
Exercise course	2
SIGNS	
Mile markers 6"x 6"	14
Trail markers 6"x 6"	2
Trail markers 8"x 8"	13
Trail markers 6"x 12"	7
Signs (varied sizes)	24

GLOSSARY

Trail Tread: Measure of the trail surfaces excluding street crossings, park pass through, and other surfaces that connect or carry a trail.

Traveled Distance: Actual traveled distance from each end of the trail

Access Pathways: Access pathways take you from neighboring streets to local trails.

Connecting Trails: Trails that cross or carry one another.

Dodge Ways: A wood barrier allowing access to hikers and preventing unauthorized access by off road vehicles, horses, and cows. It is a form of stile.

Water bars: Water bars are 4"x 6" wood beams that divert water of the trail to prevent erosion.

Planked Bridge: 4"x 12" wood planks lay side by side forming a walkway over v-dithches or other obstructions.

V-ditch: A V shaped drainage ditch built primarily from concrete, but asphalt, rock and other forms of material can also be used.

Trail Marker: Wood post, often accompanied by a small sign, designating a trail.

Mile Marker: Wood post, often routered, designating a distance in miles on a trail.

Chip Seal: Surface treatment for asphalt using hot emulsion and an application of small aggregate. It is used for pavement restoration.