



**REGULAR OPEN SPACE, ACTIVE  
TRANSPORTATION, AND SUSTAINABILITY  
COMMISSION MEETING AGENDA**

City Hall - Council Chambers  
4381 Broadway, Ste. 201, American Canyon  
**September 6, 2023**  
**6:30 PM**

**Chair:** Tara McClinton-Horner  
**Vice Chair:** Scott Artis  
**Commissioners:** Barry Christian, Sean Hughes, Nance Matson

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*City Council and other public meetings will be conducted in person at City Hall, 4381 Broadway, Suite 201, American Canyon, CA 94503. This meeting is also available via Zoom Teleconferencing as a convenience for public participation. This meeting will be broadcast live to residents on Napa Valley TV, on our website [here](#) and on YouTube [here](#). Should technical issues with Zoom occur, please select another viewing option.*

**PUBLIC PARTICIPATION**

**Oral comments, during the meeting:** Oral comments can be made in person during Open and Closed Session. A Zoom Webinar has been established for public comments made via zoom, during Open Session only. To give your public comment via zoom, connect via the below Zoom link and use the “raise your hand” tool, or call into the zoom meeting at 408-638-0968 and press \*9 to “raise your hand” when the item is called. To avoid confusion, all hands raised outside of Public Comment periods will be lowered.

**Written comments, via eComments:** Please submit written comments through the eComments link, located on the Meetings & Agendas page of our website [here](#). Comments will be available to OSATS Commissioners in real time. To allow for review of comments, eComments will close at 3:00 pm on the day of the meeting. All comments received will be posted online and become part of the meeting record.

**Zoom Meeting Link:** [Click here](#).  
**Webinar ID:** 854 4930 1305 **Passcode:** 393288

The above-identified measures exceed all legal requirements for participation in public comment, including those imposed by the Ralph M. Brown Act. For more information, please call the Office of the City Clerk at (707) 647-4369 or email [cityclerk@cityofamericancanyon.org](mailto:cityclerk@cityofamericancanyon.org).

**AGENDA MATERIALS:** Open Space, Active Transportation, and Sustainability Commission agenda materials are published 72 hours prior to the meeting and are available to the public via the City’s website at [www.cityofamericancanyon.org](http://www.cityofamericancanyon.org).

**AMERICANS WITH DISABILITIES ACT:** The Open Space, Active Transportation, and Sustainability Commission will provide materials in appropriate alternative formats to comply with the Americans with Disabilities Act. Please send a written request to City Clerk at 4381 Broadway, Suite 201, American Canyon, CA 94503 or by email to [cityclerk@cityofamericancanyon.org](mailto:cityclerk@cityofamericancanyon.org). Include your name,

address, phone number and brief description of the requested materials, as well as your preferred alternative format or auxiliary aid, at least three calendar days before the meeting.

## 6:30 P.M. REGULAR MEETING

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

## PRESENTATIONS

1. **Receive a Presentation from MCE.**

## PUBLIC COMMENT - ITEMS NOT ON THE AGENDA

*This time is reserved for members of the public to address the Open Space, Active Transportation, and Sustainability Commission on items of interest that are not on the Agenda and are within the subject matter jurisdiction of the Open Space, Active Transportation, and Sustainability Commission. It is recommended that speakers limit their comments to 3 minutes each and it is requested that no comments be made during this period on items on the Agenda. Members of the public wishing to address the Open Space, Active Transportation, and Sustainability Commission on items on the Agenda should comment via email prior to the start of the meeting, or to verbally comment on the item during the meeting, click the "raise your hand" button if joining by computer, or press \*9 if joining by phone, when the item is called. The Open Space, Active Transportation, and Sustainability Commission is prohibited by law from taking any action on matters discussed that are not on the Agenda, and no adverse conclusions should be drawn if the Open Space, Active Transportation, and Sustainability Commission does not respond to public comment at this time. Speakers are asked to please speak clearly, and provide their name. Any handouts for distribution to the Open Space, Active Transportation, and Sustainability Commission must be emailed by 3:00 p.m. on meeting day.*

## AGENDA CHANGES

## CONSENT CALENDAR

2. **Minutes of the Open Space, Active Transportation, and Sustainability Commission Meeting of August 2, 2023.**  
**Recommendation:** Approve the Meeting Minutes of the Open Space, Active Transportation, and Sustainability Commission Meeting of August 2, 2023.

## BUSINESS

3. **Update the Newell Open Space Preserve Management Plan**  
**Recommendation:** Review the 2001 Newell Open Space Preserve Management Plan, the Conservation Easement, and Grazing License. Provide feedback recommendations regarding the update to the Management Plan.

## MANAGEMENT AND STAFF REPORTS

4. **Update on Newell Open Space Trail and Parking Lot Scope of Work**

**Recommendation:** Information Only

**COMMISSIONER COMMENTS**

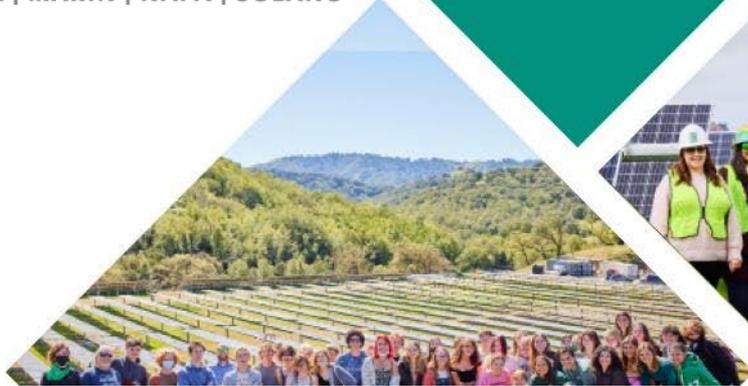
**ADJOURNMENT**

**CERTIFICATION**

I, Liz Lozano, Administrative Technician for the City of American Canyon, do hereby declare that the foregoing Agenda of the Open Space, Active Transportation, and Sustainability Commission was posted in compliance with the Brown Act prior to the meeting date.

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Liz Lozano, Administrative Technician



# MCE

American Canyon Open Spaces, Active Transportation, and  
Sustainability Commission 9/6/2023



## OUR MISSION

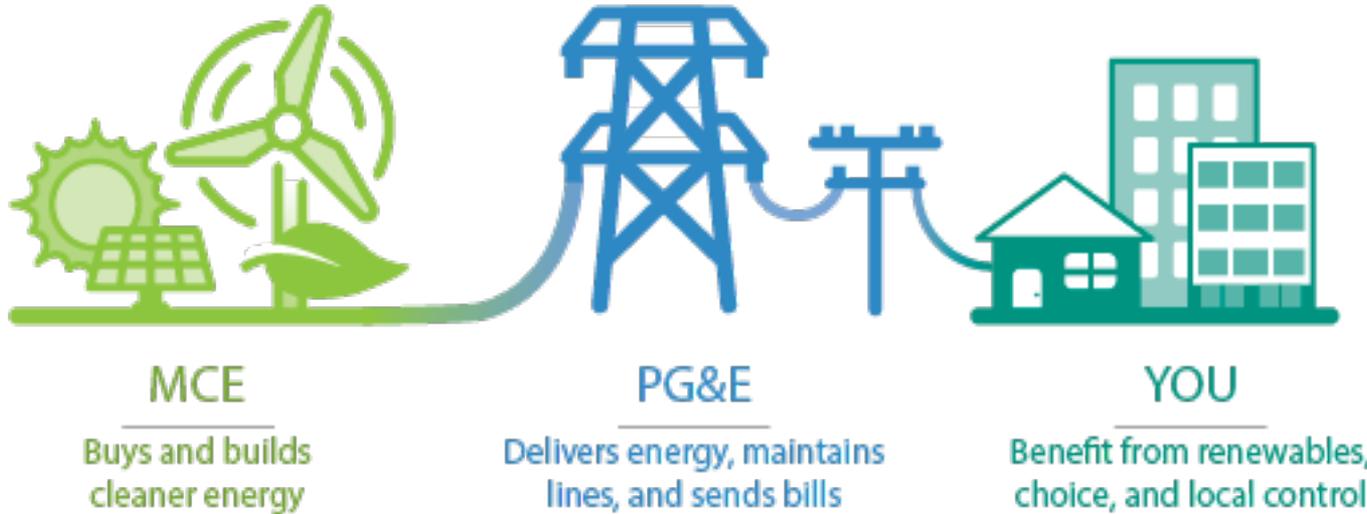
Confront the climate crisis by eliminating fossil fuel greenhouse gas emissions, producing renewable energy, and creating equitable community benefits.

## OUR VISION

Lead California to an equitable, clean, affordable, and reliable energy economy by serving as a model for community-based renewable energy, energy efficiency, and cutting-edge clean-tech products and programs.

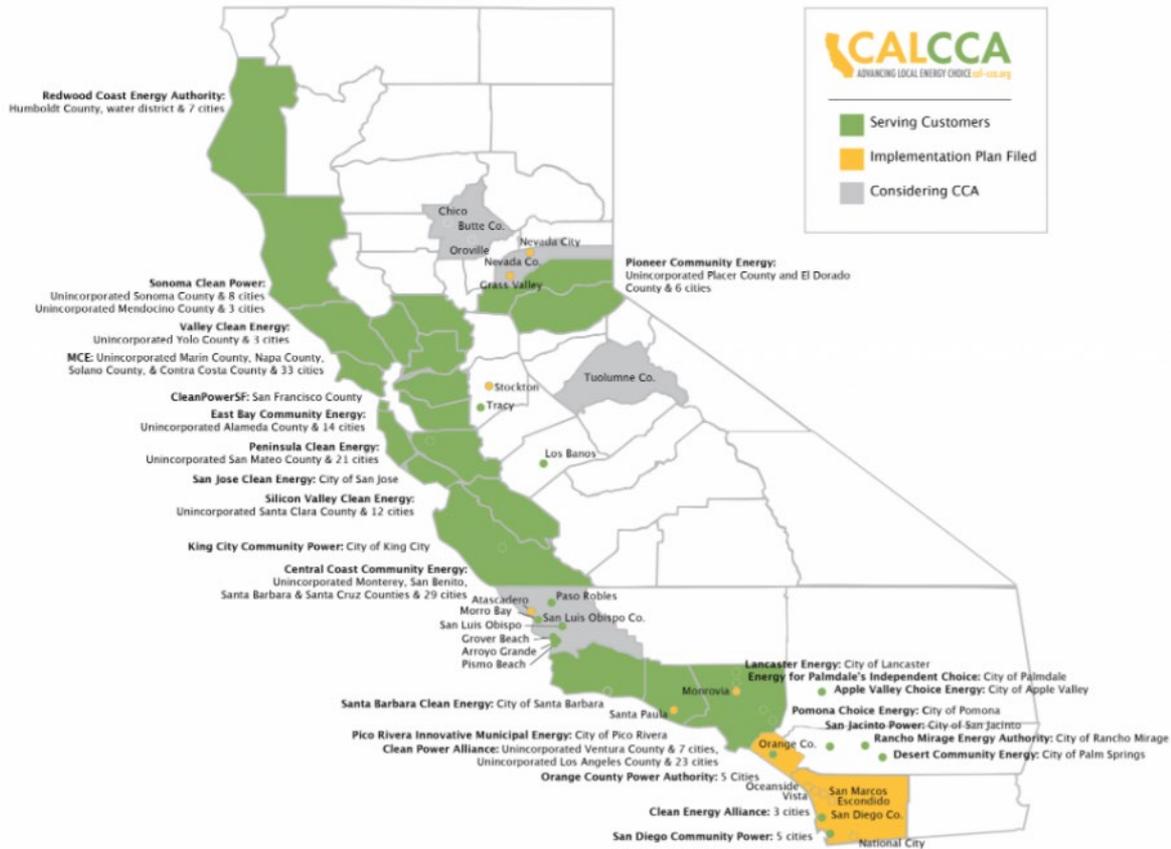
# How Electric Service Works

## HOW MCE WORKS



# Community Choice in California

- Enabling Legislation AB 117, 2002
- Opt-out model
- Customers can always return to PG&E service



# Not-for-Profit Public Agency

Solano County



Marin County



Contra Costa County



Napa County



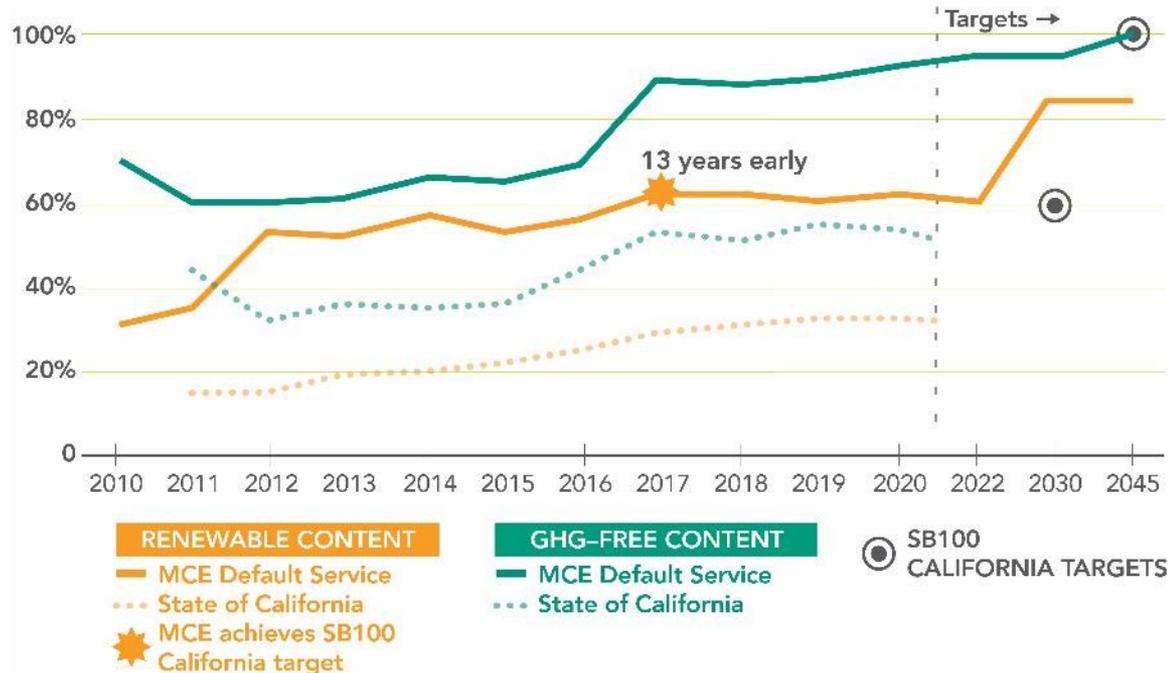
33 Board Members. Elected officials. No tax dollars.

# Clean Energy Leadership

**100% renewable**  
compared to 49% from  
traditional service

**95% greenhouse  
gas-free**

Met State goals  
**13 years** early



# 2022 Electric Power Generation Mix



	PG&E	MCE Light Green	MCE Deep Green
<b>Renewable (%)</b>	<b>38%</b>	<b>60%</b>	<b>100%</b>
Bioenergy	5	5	0
Geothermal	1	5	0
Small Hydro	2	4	0
Solar	22	28	50
Wind	9	17	50
<b>Large Hydro</b>	<b>8</b>	<b>40</b>	<b>0</b>
<b>Natural Gas</b>	<b>5</b>	<b>0</b>	<b>0</b>
<b>Nuclear</b>	<b>49</b>	<b>0</b>	<b>0</b>
<b>Unspecified/Other</b>	<b>0</b>	<b>1</b>	<b>0</b>

Your choice supports new CA renewables

# MCE and American Canyon

# MCE & American Canyon Highlights

- **Over 332,000 Customers served by MCE – 86.4 % Participation Rate**
- **10% of customers overall participating in Deep Green**
- **Over 9,040** Metric Tons of CO<sub>2</sub> reduced to date through MCE electricity generation
- To date, MCE has distributed over in **\$103,500** Energy Efficiency rebates & **\$24,500** Electric Vehicle rebates
- **Municipal accounts opted up to Deep Green in 2021**



# Community Outreach & Engagement

- American Canyon Chamber of Commerce
- American Canyon Community & Parks Foundation
- Napa County Regional Conservation District
- Napa Climate NOW!



# Community Reinvestment



# American Canyon Solar Project

- Online in 2019
- One of the largest solar farms in Napa County
- Generates power for over 1,000 homes per year

3 MW

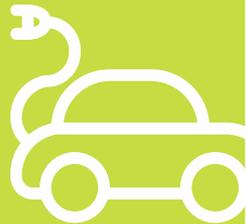
Ground-mounted  
solar in American  
Canyon



## Energy Efficiency

Audits, Rebates,  
Usage Reduction

- \$2.4M in rebates
- Over 1,200 customers served



## Electric Vehicles

Vehicle and Charging Station Rebates

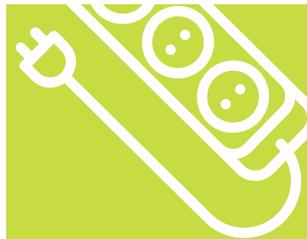
- Over 1,100 EV charging ports installed
- 300+ vehicle rebates



## Energy Resiliency

Distributed Resources, Demand Response, Virtual Power Plant, and Behavioral Programs

- Shifting load out of peak hours



## Electrification

Heat Pump Installs and Contractor Training

- 25+ contractors engaged and 125 pumps installed



## Equity, Health, & Safety

Health, Safety, and Resiliency Upgrades

- 200 portable batteries distributed
- \$750,000 in solar rebates

# Your Dollars at Work

# The Power of MCE

**700K** metric tons of GHGs eliminated since 2010

**60%** renewable since 2017, **100%** renewable default

**95%** carbon-free by 2023

**\$214 M** reinvested in MCE communities since 2010

**\$2.4 B** committed to building new CA renewable projects

**48 MW** of new renewable projects built in our service area

**2.8 M** labor hours supported

**6,000** jobs created

# Thank You!

Dave Garti

Community Development Manager

[info@mceCleanEnergy.org](mailto:info@mceCleanEnergy.org)



**City of American Canyon**  
**Open Space, Active Transportation, and Sustainability Commission**  
**4381 Broadway, Suite 201**  
**August 2, 2023**

**ACTION MINUTES**

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**CALL TO ORDER**

The meeting was called to order at 6:30p.m.

**PLEDGE OF ALLEGIANCE**

The Pledge of Allegiance was recited.

**ROLL CALL**

Roll Call was taken.

**ATTENDANCE**

OSATS Commissioners Present:

Chair Tara McClinton-Horner

Vice Chair Scott Artis

Commissioner Barry Christian

Commissioner Sean Hughes

Commissioner Nance Matson

**PRESENTATIONS**

**1. Napa Valley Vision Zero Plan Progress Update**

Received a presentation from Diana Meehan on behalf of Napa Valley Transportation Authority regarding the Napa Valley Vision Zero Plan Progress Update.

**PUBLIC COMMENT**

Chair McClinton-Horner opened Public Comment.

**Written Public Comment Received:**

There was a Public Comment received by Kim Hester-Williams.

**Oral Public Comment Received:**

There was a Public Comment received by Justin Hamilton-Hole.

Chair McClinton-Horner closed Public Comment.

**AGENDA CHANGES**

No Agenda Changes.

**CONSENT CALENDAR**

Motion by Commissioner Christian to approve the Meeting Minutes for the June 7, 2023, OSATS Meeting and the Meeting Minutes for the June 20, 2023, Special Joint City Council and Open Space, Active Transportation, and Sustainability Commission Meeting; seconded by Commissioner Hughes. Roll Call was taken; the motion passed unanimously.

**BUSINESS**

**4. Sustainability Initiatives for FY 2023-24**

City Manager Holley presented an informational item that included a brief history of the 2022 Climate Action Interim Plan, the transition of the Plan to OSATS, and reviewed the sustainability items identified in the 2022 Climate Action Interim Plan. City Manager Holley opened a discussion with OSATS regarding City Council’s interest in gathering community feedback on the items included in the 2022 Climate Action Interim Plan and gaining feedback from the OSATS Commission on identifying 2-3 “low hanging fruit” items that can be completed while the community interest piece is being worked on. OSATS provided feedback to City Manager Holley to share with City Council on how to address accomplishing the community engagement process and a list of “low hanging fruit items” of sustainability initiatives that can be developed and completed.

**Public Comment:**

Chair McClinton-Horner opened Public Comment.

**Written Public Comment Received (see attached):**

- Yvonne Baginski
- Lynne Baker (2)
- Linda Brown
- Jeanette Goyetche
- Chris James
- Lori Stelling
- Tammy Wong

**Oral Public Comment Received:**

- Allison Bencsic
- Linda Brown
- Jim Wilson
- Mark Joseph
- Jeanette Goyetche
- Carlotta Sainato

Chair McClinton-Horner closed Public Comment.

**Chair McClinton-Horner opened Public Comment #2.**

**Written Public Comment Received:**

None

**Oral Public Comment Received:**

- Linda Brown

Chair McClinton-Horner closed Public Comment #2.

**Chair McClinton-Horne opened Public Comment #3.**

**Written Public Comment Received:**

None

**Oral Public Comment Received:**

- Mark Joseph

Chair McClinton-Horne closed Public Comment #3.

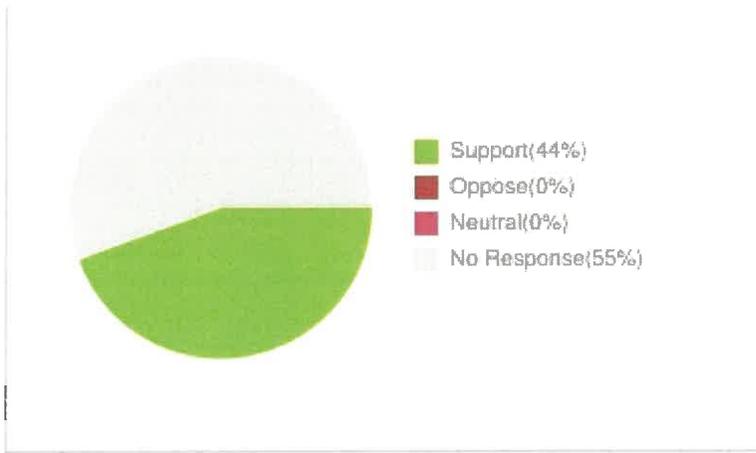
**ADJOURNMENT**

The meeting was adjourned at 9:24p.m.

**CERTIFICATION**

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Liz Lozano  
Administrative Technician



## eComments [Hide/Show](#)

Agenda Item --	Name --	Comment --	Position Submitted -- At --
<a href="#">PUBLIC COMMENT - ITEMS NOT ON THE AGENDA</a>	<a href="#">Kim Hester Williams</a>	<p>Hi. I'm not sure if this issue is on the agenda or not. I wasn't able to tell from the agenda text so apologies if this is out of order. First, I (still) miss you all and hope everyone is well. It's very nice to see both experienced and new members of this commission. I thank all of you for your excellent and important service. It is much appreciated! I am commenting on the issue of developing a Climate Change Action Plan for the city. I was disappointed to hear that another drive thru was approved but, at the same time, heartened that the Planning Commission and Council are considering a ban on future drive-ins. As we all know by now, climate change is here and is making a grave impact. This is a small city with disproportionate traffic that is harmful both to the environment and to our individual and collective health. We MUST address this as a city in whatever ways we can--particularly the climate impact of all of these gas powered cars driving through our city. I'm hoping this commission in particular will be attentive to and pro-active on this and other issues that negatively impact our climate--in addition to the business of preserving and maintaining our open space which we all cherish.</p> <p>As a resident of American Canyon since 2004, I am writing to ask you to be the leaders we need right now by recommending that our city</p>	08-02-2023 12:57 pm

Agenda Item --	Name --	Comment --	Position Submitted -- At --
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maintain a strong commitment to a 2030 net zero climate pollution goal, and to doing everything in your power to help the city meet this goal. I love this city and I want to see it remain safe, healthy, and livable far into the future and especially for future generations. Let us please work together on a plan to keep our community safe and livable. I have confidence that this commission can take the lead in helping all of us to be courageous and commit to reaching net zero climate pollution by 2030. Thank you so much for your time and attention.

BUSINESS

Lynne Baker

Support 08-02-2023 01:49 pm

This comment is submitted subsequent to our letter sent earlier today to members of the Commission. Lynne Baker on behalf of Napa Climate NOW! Part 2 of 2

The science is clearly on the side of 2030. In the latest intergovernmental consensus report (AR6), the world's climate scientists agreed that the earth is very likely to exceed the dangerous threshold of 1.5°C above normal by the early 2030s, and as early as 2030. As you know, record heat waves, flooding, and wildfires this year have put communities across the country at extreme risk, along with whole ecosystems vital to our environment and economy. Smoke blanketing large parts of the county this summer are another stark reminder of what we have lived through in recent years, with clear respiratory and other health consequences for American Canyon residents.

Community resources, such as Napa County Resource Conservation District, are committed to 2030 and stand ready to support cities in making the transition to net zero by 2030 through innovative farm, forest, urban and wild lands management. And state and federal resources, including millions in infrastructure and other climate funds made available through the 2022 Inflation Reduction Act, are now available to help American Canyon meet its 2030 goal.

In short, the 2030 goalpost is not an artificial date established for aspirational or political purposes, but rather is grounded in unfortunate changes in climate that we simply cannot afford to ignore. Decisions and delays of the

Agenda Item --	Name --	Comment --	Position Submitted -- At --
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past several decades have put today’s elected officials, residents, corporations, and youth in the untenable position of having to make extremely hard choices. And every single year we delay taking decisive action to make our home more climate resilient, our opportunity to do so diminishes. That’s because as the globe warms, devastating feedback loops are being set into motion that are accelerating the change.

At the same time, it is helpful to consider that the changes we make now can still make a difference, and indeed, support a thriving economy. In addition, it is crucial to recognize that the cost of working to achieve net zero will ultimately pay off, while the cost of inaction or delay will be much, much greater — not only in dollars and cents, but in the devastating impacts on people’s lives.

Please support the retention of 2030 as a firm net zero goal, for our children’s sake.

Sincerely, Napa Climate NOW! Steering Committee

BUSINESS

Yvonne Baginski

I am concerned about what is lacking in the staff report presented to you today. The most unrecognized threat to south Napa County, and the City of American Canyon is the loss of native foraging and breeding grounds. Currently, the City is facing two lawsuits, Center for Biological Diversity and the Golden State Center for Environmental Justice, targeted to stop environmental damage which will occur with the proposed development of the 227 acre GIOvannonni Property. Environmental groups are watching the development of A.C. closely because of its proximity to San Pablo Bay, the mouth of the Napa River, its watershed and wetlands. I ask of you to take the time to read these lawsuits to get a clear idea of what city actions are being challenged. In lieu of our climate crisis, and recent funding that has been released from the federal government for the restoration of the wetlands, it is imperative that all development be reconsidered in light of these new developments. We need more open space and areas conserved for wildlife, not less. I am also very concerned about the brag that the GHG

07-30-  
2023  
08:00 pm

Agenda Item --	Name --	Comment --	Position Submitted -- At --
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inventory is now less than 15% of state average. Will that be true in five years when the Watson Ranch, Giovanonni, Hess and other projects are completed? The cumulative effect of all this growth will significantly raise GHG emissions in American Canyon. At a time when GHG emissions must be reduced, we are seeing just the opposite. Right now, diesel trucks contribute the most carbon emissions into our air. With the plans currently on the books, A.C. will be welcoming many more thousands of vehicle miles with both diesel truck and automobile emissions. This is going in the opposite direction. On the comment about the "narrow input" from A.C. residents, let me stress that Measure J was defeated. That was a significant message to the elected officials. Also, when we spoke to the planning commission on banning further drive thrus, there were at least four A.C. residents at the meeting, several high school students called in and we submitted a petition with 63 resident signatures. Planning commissioners ignored the input. The staff use of the terms "accelerate" and "more aggressive" indicate a negative bias towards the 2030 date for goal of Net Zero GHG emissions. The fact is, we have even less time. We are currently in the climate crisis and have reached the tipping point. Scientists are sending out panic signals that can no longer be ignored.

4.) Sustainability Initiatives for Jeannette  
FY 2023-24

Goyetche

I am a long time resident of American Canyon for the past 35yrs. I am asking the OSATS Commission to recommend that our city maintain a strong commitment to our 2030 net zero climate pollution goal. Climate change is here & truly a crisis, across the world, our nation, our county & neighborhood. We see it in the fires, the severe storms, severe heat, rising sea levels. We are blessed to have the wetlands, here in our community, to enjoy for walking, running, bike riding, & viewing the wildlife, which has made a comeback, but not entirely. It took many yrs for the wetlands to be what it is today. We need to be mindful of encroaching development of warehouses & housing that may affect the habitats of existing animal & plant life so precious of this American Canyon we call home. My concerns are with the diminishing open spaces, the increased

Support 08-02-  
2023  
02:39 pm

Agenda Item --	Name --	Comment --	Position Submitted -- At --
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traffic & congestion,horrible road conditions,& increased pollution due to the traffic on 29. There is much to be proud of with the work that has been done in A.C especially in regards to the wetlands preservation. The A.C community does care about their city. When Measure J was voted down by residents of A.C, we proved the residents do care of how our city develops.The net zero pollution goal by 2030 is an important benchmark & will help us stay focused on the actions we need to take as a community. I have faith we can do this together. Thank you for listening to my concerns.

[4.\) Sustainability Initiatives for FY 2023-24](#) [Lori Stelling](#)

Dear OSATS Commission Members,

08-02-2023 02:33 pm

I wanted to take a moment this afternoon to voice my strong support for the City of American Canyon keeping it's current CER and goal of reaching net zero climate pollution on or before 2030, in solidarity with NVUSD and all jurisdictions throughout our County. As the parent of a Napa teen who is deeply concerned about today's children having the chance for a livable future, I've been paying attention to the climate crisis since 2016 and must say that this summer of 2023's record heat (with many people suffering and scientists sharing that this July broke records for the hottest days in about a hundred and twenty-five thousand years) has been yet another wake-up call to the urgency of the moment.

I'm wondering whether the City's request that OSATS reach out to community members and businesses could be focused upon finding out how community members and businesses would like to be a part of the City's action steps towards meeting it's 2030 Goal? In other words, could this hottest summer on record serve as the ideal time to inspire community members and businesses to be a part of the urgently needed actions and solutions to this crisis?

In this moment, it feels more important than ever that we adults stick to our commitments and show our youth that we are serious about giving them real hope for a sustainable world. My family is grateful for each step you take

Agenda Item --	Name --	Comment --	Position Submitted --	At --
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and we thank you for your leadership in recognizing the urgency of the climate crisis and the actions that must be taken within this crucial decade.

Sincerely, Lori Stelling Napa County Resident  
- 25 years

[4.\) Sustainability Initiatives for FY 2023-24](#) [Lynne Baker](#)

Support 08-02-2023 01:45 pm

This comment is submitted subsequent to our letter sent earlier today to members of the Commission. Lynne Baker on behalf of Napa Climate NOW! Part 1 of 2

August 1, 2023 To: Members of the American Canyon Open Space, Active Transportation and Sustainability Commission Dear Members, Thank you for all you are doing to develop a thoughtful approach to the protection of open space, support for active transportation options, and increased sustainability throughout American Canyon. These actions are crucial to safeguarding the lives and livelihoods of American Canyon residents, and helping the entire county of Napa in becoming more climate resilient.

We are writing this letter today to weigh in on an important OSATS discussion, namely, whether to encourage American Canyon to retain its 2030 net-zero focus as a firm commitment rather than as a simple “reach” goal. On behalf of residents throughout Napa County, we urge you to stand strong in support of the 2030 goal, along with other jurisdictions in Napa County and surrounding communities such as Sonoma County.

American Canyon has been a leader in the county, inspiring other jurisdictions with its climate-positive initiatives – water savings, residential energy efficiency scoring requirements above minimum building code levels, solar installations, no new gas stations, open space commitments, new bike lanes, and more. These initiatives are serving the vital interests of American Canyon residents, and are important building blocks toward climate resilience. They are also in line with the 2030 net zero climate pollution goal.

Agenda Item --	Name --	Comment --	Position Submitted -- At --
		<p>Pulling back from a firm 2030 commitment could easily undermine these initiatives in the coming years, which face recurring challenges from interested parties. Pulling back could also delay or prevent the adoption of additional measures needed to protect city residents and environs. As guardians of the public trust, elected government officials and agencies, and committees and commissions established in the public interest, such as OSATS, are in a unique position to weigh the benefits and costs of development from a holistic community perspective. And now, more than ever, there is a need for this kind of leadership as climate change continues to accelerate unabated.</p>	
<p><a href="#">4.) Sustainability Initiatives for FY 2023-24</a></p>	<p><a href="#">Linda Brown</a></p>	<p>Dear OSATS members</p> <p>Thank you for all you are doing to develop a thoughtful approach to the protection of open space, support for active transportation options, and increased sustainability throughout American Canyon. These actions are crucial to safeguarding the lives and livelihoods of American Canyon residents, and helping the entire county of Napa in becoming more climate resilient.</p> <p>We are writing to weigh in on an important OSATS discussion, namely, whether to encourage American Canyon to retain its 2030 net-zero focus as a firm commitment rather than as a simple “reach” goal. On behalf of residents throughout Napa County, we urge you to stand strong in support of 2030 as a firm goal, along with other jurisdictions in Napa County and surrounding communities such as Sonoma County.</p> <p>We have emailed each of you a longer version of this letter, but since the comment field is limited to 2500 characters, here is a quick summary of our points.</p> <ul style="list-style-type: none"> <li>• American Canyon’s climate-positive initiatives – water savings, residential energy efficiency scoring requirements above minimum building code levels, solar installations, no new gas stations, open space commitments, new bike lanes, and more – are serving the vital interests of American Canyon</li> </ul>	<p>08-02-2023 01:40 pm</p>

Agenda Item --	Name --	Comment --	Position Submitted -- At --
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residents and in line with the 2030 net zero climate pollution goal.

- Pulling back from a firm 2030 commitment could easily undermine these initiatives in the coming years, prevent or delay the adoption of additional important measures, and inevitably, undermine the very mission of OSATS.
- The science is clearly on the side of 2030. In the latest intergovernmental consensus report (AR6), the world’s climate scientists agreed that the earth is very likely to exceed the dangerous threshold of 1.5°C above normal by the early 2030s, and as early as 2030.
- Community resources, along with state and federal resources, are now available to help American Canyon meet its 2030 goal.
- And year we delay taking decisive action to make our home more climate resilient, our opportunity to do so diminishes. That’s because as the globe warms, devastating feedback loops are being set into motion that are accelerating the change.
- The cost of working to achieve net zero will ultimately pay off, while the cost of inaction or delay will be much, much greater — not only in dollars and cents, but in the devastating impacts on people’s lives.

Please support the retention of 2030 as a firm net zero goal, for our children’s sake.

4.) Sustainability Initiatives for Chris James  
FY 2023-24

As a resident of American Canyon for over a decade, I run or walk daily in our City, and particularly enjoy our wetlands. I am grateful for the foresight and efforts that were made by city leaders to preserve our wetlands and provide access to residents and guests interested in enjoying this landmark feature of our city.

Now the climate crisis is a huge threat to our wetlands. Have you seen the NOAA sea level rise calculator?  
<https://coast.noaa.gov/digitalcoast/tools/slr.html>

It shows that just a few feet of sea level rise will begin to encroach on our shoreline,

08-02-  
2023  
12:30 pm

Agenda Item --	Name --	Comment --	Position Submitted --	At --
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threatening homes, businesses, roads, and our safety.

We need to exercise our leadership again -- elected officials in American Canyon, our city staff, our local commissioners, and all of our neighbors -- to stay committed to preventing further climate change. The net zero climate pollution goal by 2030 is an important benchmark, and will help us stay focused on the actions we need to take as a community

Now, climate change is a huge threat to our wetlands. Have you seen the NOAA sea level rise calculator?

<https://coast.noaa.gov/digitalcoast/tools/slr.html>

It shows that just a few feet of sea level rise will begin to encroach on our shoreline, threatening homes, businesses, roads, and our safety.

Now is when we need to exercise our leadership again -- elected officials in American Canyon, our city staff, our local commissioners, and all of our neighbors -- to stay committed to preventing further climate change. The net zero climate pollution goal by 2030 is an important benchmark, and will help us stay focused on the actions we need to take as a community.

4.) Sustainability Initiatives for FY 2023-24 TL Wong

As a resident of American Canyon, I have experienced the impact of devastating wildfires in Napa County, atmospheric rivers, and weather changes that are all a direct result of the climate crisis. We need a meaningful sustainability initiative.

Support 08-02-2023 11:47 am

Let us re-commit to the Climate Emergency Proclamation, "City of American Canyon joins a growing list of communities committed to a goal of Net Zero Climate Pollution, measured in terms of net contribution to excess trapped heat, by or before 2030, and further commits to evaluate all planning and policy decisions through the lens of this pledge, and to implement both immediate and sustained actions in support of its achievement."

Agenda Item --	Name --	Comment --	Position Submitted -- At --
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To reduce emissions and reliance on fossil fuel, I like seeing cycling included. But it should be more. It should actively encourage more cycling in our city to replace short car trips. Being physically active also has health benefits, and builds community to see our neighbors as we cycle. Participating in the national bike friendly community assessment would give us an objective review and baseline for improvement.

In addition to cycling, here's my input on what is missing and should be included as a priority:

1) Open Space and Wildlife Corridors: I walk or run daily at Wetlands Park; it is indeed a crown jewel of our city. What makes the park experience special is seeing the wildlife. |

Yet, wildlife is being pushed out. We used to see deer on the hills near Eucalyptus St and in the Wetlands area. In the last few years, personally, my deer sightings are greatly reduced. I think I have seen deer just once since the school was built.

We need open space and areas conserved for wildlife habitat, and wildlife corridors for safe travel paths for them.

2) Water: As someone who drinks water every day, I want a reliable clean source. It's shameful that a growing number of cities in the United States don't have clean water. My concern is the capacity of our water system. How much development can we support? Currently there is no transparency about the potable water capacity of our city. I did read about a lawsuit with the City of Vallejo not supplying water to our Canyon Estates.

So any proposed new development should be reviewed -- with full transparency -- from an environmental perspective and water capacity standpoint.

Thank you for considering my input.



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## **TITLE**

Update the Newell Open Space Preserve Management Plan

## **RECOMMENDATION**

Review the 2001 Newell Open Space Preserve Management Plan, the Conservation Easement, and Grazing License. Provide feedback recommendations regarding the update to the Management Plan.

## **CONTACT**

Alexandra Ikeda, Parks and Recreation Director

## **BACKGROUND & ANALYSIS**

In December 1999, Jack and Bernice Newell donated a scenic 640-acre property to the City of American Canyon, dedicated as a public open space for the American Canyon community and region to enjoy forever, and to protect valuable agricultural and natural resources. The Napa County Land Trust holds the Deed of Easement over the Newell Open Space Preserve property (Attachment 1). A conservation easement is a legal agreement between a landowner and a qualified conservation organization or government agency that restricts certain activities on a piece of land in order to protect its natural, ecological, scenic, or cultural values. This voluntary agreement was established to ensure the long-term conservation of the land and its associated resources, and gives Napa County Land Trust the right to enter and monitor the property to determine compliance with the protection of conservation values.

The City of American Canyon's Newell Open Space Preserve (NOSP) is an open space preserve, also commonly referred to as a natural preserve or natural area, is a protected and managed piece of land that is set aside for the primary purpose of protecting and preserving natural ecosystems, wildlife habitats, scenic landscapes, and other environmentally significant features. The primary goal of these preserves is to prevent development, urbanization, and other human activities that could negatively impact the natural environment. They serve as havens for native plants and animals, allowing them to thrive without the pressure of urban expansion. NOSP is the home to many protected habitats and species, including flora and fauna that the City of American Canyon and the Napa County Land Trust work closely together to protect and preserve. In addition, NOSP has served as agricultural land for the last 150 years, whereas for the last 50 years, the land has been grazed by

the Azevedo family, part of a ranching unit including Lynch Canyon Open Space Preserve, and adjacent Azevedo land.

In November 2001, the City, in partnership with the Napa County Land Trust, adopted the Newell Open Space Preserve Management Plan (Attachment 2). The Management Plan was created for the Land Trust as a management tool for both the property owner (the City) and the Land Trust, and is consistent with the Conservation Easement. The Management Plan was developed in two parts: Part One - Opportunities, Needs, and Constraints, and Part Two - Use and Management. Part One's objectives were to: 1) Evaluate and document site conditions and resources; 2) Protect and restore resources; and 3) Provide for public use and enjoyment. Part Two's objectives were to: 1) Address Resource Protection and Restoration, which is the priority goal for the Preserve; 2) Address Site Use and Improvement: policies for the management of public use and implementation of related important facilities; and 3) Site Management, addressing tasks and arrangements necessary to effectively administer and manage the site in accordance with the Resources and Site Use and Improvement policies.

On July 8, 2022, the City of American Canyon issued a Grazing License to the Azevedo Livestock Company for the purpose of grazing on a portion of the Newell Open Space Preserve property (Attachment 3). This Grazing License is consistent with the Management Plan which includes the Grazing Management Plan contributed by the Natural Resources Conservation Service, as grazing is an integral part of the resource management approach. The Grazing License formalized the activity and solidified the long-standing partnership between the City and the Azevedo family. The Grazing License is consistent with the Lynch Canyon Open Space Preserve Grazing License, and was reviewed and approved by the Napa County Land Trust. The Grazing License is expected to be renewed in July 2024.

The Management Plan has been a valuable tool for the City, is instrumental in guiding us in making important decisions, and has enabled us to achieve significant milestones and successes. Even in its current state, the Management Plan is a valuable document that memorializes NOSP history, identifies sensitive and protected species and habitats, and is consistent with the Conservation Easement. However, the Management Plan was created during a time when there was no public access to NOSP. As we continue to navigate owning, managing, operating, and maintaining an open space preserve that has open cattle grazing, and now allows public access for passive recreational use, we have recognized a need to discuss and possibly address some concerns that have been expressed from our community.

At the June 20, 2023, Special Joint Council Meeting with the Open Space, Active Transportation, and Sustainability Commission (OSATS), the Council approved the OSATS Work Plan for FY2023/24 which includes looking at updating the Newell Management Plan. At this time, City staff is recommending a document update rather than rewriting it. All changes and alterations to the Management Plan are required to be consistent with the Conservation Easement, and will need to be reviewed and approved by the Napa County Land Trust.

## **COUNCIL PRIORITY PROGRAMS AND PROJECTS**

Community and Sense of Place: "Build on the strength of our local community to develop a clear 'sense of place' and establish our unique identity."

## **FISCAL IMPACT**

None.

## **ENVIRONMENTAL REVIEW**

15378(b) - The action is not a "Project" subject to the California Environmental Quality Act ("CEQA") because it does not qualify as a "Project" under Public Resources Code Sections 21065 and 21080 and in Section 15378(b) of Title 14 of the California Code of Regulations.

## **ATTACHMENTS:**

[Attachment 1: Newell Conservation Easement](#)

[Attachment 2: Newell Management Plan](#)

[Attachment 3: Grazing License\\_Azevedo Livestock Company](#)

RECORDED AT THE REQUEST OF  
AND WHEN RECORDED RETURN TO:

NAPA COUNTY LAND TRUST  
1040 Main Street, Suite 203  
Napa, California 94559  
Telephone: (707) 252-3270

Recorded  
Official Records  
County Of  
NAPA  
JOHN TUTEUR  
Recorder  
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AP# 059-030-002 E PTN 001

**DEED OF CONSERVATION EASEMENT**

THIS GRANT DEED OF CONSERVATION EASEMENT (the "Deed of Easement") is made as of the date of recordation in the Napa County Recorder's office by JACK H. NEWELL, SR., and BERNICE NEWELL, Trustees of the Jack and Bernice Newell Family Trust, created on November 25, 1991 ("Grantors"), having an address at 285 American Canyon Road, American Canyon, California 94589, in favor of the NAPA COUNTY LAND TRUST, a California nonprofit corporation (the "Trust"), having an address at 1040 Main Street, Suite 203, Napa, CA 94559.

**RECITALS**

A. Grantors are the sole owners in fee simple of certain real property in Napa County, California, designated as all of Assessor's Parcel Number 059-030-002 and an approximately 145.42-acre portion of Assessor's Parcel Number 059-030-001 on the Napa County Assessor's Maps currently in effect, collectively consisting of a total of approximately six hundred forty-two (642) acres, and more particularly described in Exhibit A attached hereto and incorporated by this reference (the "Property").

B. The Property possesses natural, scenic, open space, historical, agricultural, educational, and recreational values (collectively, the "Conservation Values") of great importance to Grantors, the people of Napa County, and the people of the State of California.

C. In particular, the Property constitutes part of the eastern backdrop of the City of American Canyon and extends to the Solano County line, providing for invaluable preservation of open space, viewshed, and wildlife habitat. The property also contains a rare population of the federally endangered Tiburon paintbrush (*Castilleja affinis spp. neglecta*), as well as important natural habitat

for a variety of birds and mammals, including an important wintering area for a significant population of Golden Eagles. In addition, the Property contains an important Coast Live Oak forest that is over 200 years old.

D. The specific Conservation Values of the Property are further documented in an inventory of relevant features of the Property, dated December 17, 1999, on file at the offices of the Trust and incorporated by this reference (the "Baseline Documentation"), consisting of reports, maps, photographs, and other documentation which the parties agree provide, collectively, an accurate representation of the Property at the time of this grant and which are intended to serve as an objective, though nonexclusive, information baseline for monitoring compliance with the terms of this grant.

E. Grantors intend that the Conservation Values of the Property be preserved and maintained by permitting only those uses of the Property that do not significantly impair or interfere with the Conservation Values.

F. Napa County has a long-standing conservation policy to provide for the preservation of lands both for agricultural production and for watershed for that production by using, whenever possible, exclusive agricultural or agricultural watershed zoning. The Property is presently zoned "Agricultural Watershed."

G. Grantors further intend, as owners of the Property, to convey to the Trust the right to preserve and protect the Conservation Values of the Property in perpetuity.

H. The Trust is a publicly supported, tax-exempt nonprofit organization, and a qualified organization under Sections 501(c)(3) and 170(h) of the Internal Revenue Code of 1986, as amended, and the regulations promulgated thereunder (the "Internal Revenue Code"), whose primary purpose is the preservation, protection, and enhancement of land in its natural, scenic, historical, agricultural, forested, and/or open-space condition.

I. Immediately following this grant of a conservation easement, Grantors intend to donate the underlying fee simple interest in the Property to the City of American Canyon in order to create the "Jack and Bernice Newell Open Space" (the "Open Space"). It is the intention of Grantors that the Open Space be passively used by the public for hiking, horseback riding, bicycling, picnicking, and other passive recreational uses so long as such uses do not diminish or impair other Conservation Values.

J. The City of American Canyon ("City"), since its incorporation in 1992, has formulated and implemented policies which are consistent with conservation, open space and compatible recreational use of interests in real property which it has acquired either adjacent to, or near, its prescribed limits for development. Specifically, the land use element of the City's General Plan calls for the City to "Cooperate with appropriate agencies and property owners in the establishment of a regional park in the eastern foothills and canyons of the City and establish open space linkages."

NOW, THEREFORE, the parties hereto agree as follows:

1. Grants and Purpose. In consideration of the above and the mutual covenants, terms, conditions, and restrictions contained herein, and pursuant to the laws of California and in particular California Civil Code Section 815 et seq. (the Conservation Easement Act of 1979) and Government Code Section 51070 et seq. (the Open-Space Easement Act of 1974), Grantors hereby voluntarily grant and convey to the Trust a conservation easement in perpetuity over the Property of the nature and character and to the extent hereinafter set forth. The purpose of this Deed of Easement is to assure that the Property will be retained forever predominantly in its natural, scenic, historical, agricultural, forested, and open space condition and to prevent any use of the Property that will impair or interfere with the Conservation Values of the Property. Grantors intend that this Deed of Easement will confine the use of the Property to such activities, including, without limitation, those involving cattle grazing and passive recreation, as are consistent with the purpose of this Deed of Easement.

2. Rights of Trust. To accomplish the purpose of this Deed of Easement, the following rights are conveyed to the Trust by Grantors:

2.1. To preserve and protect the Conservation Values of the Property;

2.2. To enter upon the Property, at reasonable times and upon prior reasonable notice to Grantors, in order to monitor compliance with and otherwise enforce the terms of this Deed of Easement; provided that the Trust shall not in any case unreasonably interfere with Grantors' use and quiet enjoyment of the Property; and

2.3. To enjoin any activity on or use of the Property that is inconsistent with the purpose of this Deed of Easement and to require the

restoration of such areas or features of the Property as may be damaged by any inconsistent activity or use, pursuant to the remedies set forth in Paragraph 6.

3. Prohibited Uses. Any activity on or use of the Property inconsistent with the purpose of this Deed of Easement is prohibited. Without limiting the generality of the foregoing, the following activities and uses are expressly prohibited, except as expressly permitted in Paragraph 4 or as qualifiedly permitted in this Paragraph 3. If Grantors are uncertain whether an activity or use may have an adverse impact upon the Conservation Values that this Deed of Easement is intended to protect, Grantors shall seek the prior approval of the Trust as set forth in Paragraph 5.

3.1. The legal or de-facto subdivision of the Property, including through the granting of certificates of compliance or lot line adjustment for any purpose, except a subdivision and/or lot line adjustment of the Property and/or an adjoining parcel also owned by Grantors may be permitted for the sole purpose of facilitating a public school site adjacent to the Property. In no event, however, shall the Property, after said subdivision and/or lot line adjustment, be less than 640 acres in size.

3.2. The placement or construction of any new buildings, structures, or other improvements of any kind (including, without limitation, fences, roads, parking lots or mobile homes), except as permitted in a limited manner by Paragraphs 4.1, 4.4, 4.6, 4.9, and 4.10.

3.3. Any agricultural, commercial or industrial use of, or activity on, the Property, except for the grazing permitted by Paragraph 4.11.

3.4. Any recreational use of, or activity on, the Property, except for those passive recreational uses and activities permitted by Paragraph 4.5.

3.5. The placement of any signs or billboards on the Property, except to advertise the Property for sale or rent, to post the Property to control unauthorized entry or use, to post notice of the Deed of Easement, or to provide information to those making passive recreational use of the Property.

3.6. The installation of new, or extensions of existing, utilities (including, without limitation, water, sewer, power, fuel, and communication lines and related facilities), except to provide utilities to any caretaker's residence that may be constructed pursuant to Paragraph 4.9 or except to accommodate the passive recreational uses as set forth in Paragraphs 4.5 and 4.6.

3.7. Hunting or trapping, except with the prior written consent of the Trust, such consent to be given only to the extent necessary to allow ecological research or to maintain the ecological balance in the area of the Property, or as reasonably necessary for agricultural purposes.

3.8. The operation of any motorized vehicle for any purpose, except for emergency use, permitted agricultural or residential uses, or for maintenance of the Property or permitted facilities.

3.9. The pruning, felling, or other destruction or removal of dead or living native trees, except as necessary to control or prevent hazards, disease, or fire.

3.10 Any alteration of the surface of the land, including, without limitation, the excavation or removal of soil, sand, gravel, rock, peat, or sod.

3.11. Mining, drilling, exploration for, or extraction of minerals, hydrocarbons, steam, soils, or other materials on or below the surface of the Property, except as may be necessary to carry out the permitted uses set forth in Paragraph 4.

3.12. Any use or activity that causes or is likely to cause soil degradation or erosion, or pollution of any surface or subsurface waters.

3.13. The alteration or manipulation of any water courses located on the Property, or the creation of any new water impoundments or water courses, for any purpose other than for agricultural uses of the Property permitted herein or for protection of sensitive plant or animal habitat, including, but not limited to the provisions of Paragraphs 4.12 and 4.13.

3.14. The dumping or other disposal of wastes, refuse, and debris on the Property, except that which is generated by agricultural and passive recreational activities permitted herein and disposed of in a lawful manner.

3.15. The shooting of guns (except for purposes of the exceptions to Paragraph 3.7), explosives, or fireworks.

4. Reserved Rights. Grantors reserve to themselves, and to their personal representatives, heirs, successors, and assigns, all rights accruing from their ownership of the Property, including the right to engage in or permit or invite others to engage in, all uses of the Property that are neither expressly prohibited

herein nor inconsistent with the purpose of this Deed of Easement. In addition, Grantors are permitted to engage in the following activities, whether or not they are inconsistent with the purpose of this Deed of Easement, but, when doing so, Grantors shall make a good-faith effort to minimize consequences that would impair or interfere with the Conservation Values of the Property.

4.1. To maintain or construct fencing necessary for establishment of the perimeter of the Property, for the grazing purposes permitted by Paragraph 4.11, for the equestrian center permitted by Paragraph 4.6, so long as the fencing does not inhibit the free movement of wildlife, or for the enhancement and/or protection of riparian corridors or other sensitive habitats.

4.2. To prevent entry on the Property by unauthorized persons.

4.3. To maintain in their present condition and width roads and trails currently existing on the Property, if necessary for agricultural and passive recreational uses of the Property permitted herein.

4.4. To construct new trails, if necessary for agricultural and passive recreational uses of the Property permitted herein; provided, however, that such construction is subject to the prior written approval of the Trust pursuant to the provisions of Paragraph 5.

4.5. To engage in and permit others to engage in the following recreational uses and activities of a low-density, passive nature: hiking; horseback riding; bicycling; overnight tent camping; casual picnicking; wildlife observation, nature study, and environmental education; photography; kite flying; scenery painting; and meditating. Up to three (3) non-commercial events may be held annually to assist in raising funds to be used in the operation and maintenance of the Property. No other recreational uses or activities shall be permitted without the prior written consent of the Trust pursuant to the provisions of Paragraph 5. All such non-commercial events and recreational uses and activities shall be subject to whatever terms, conditions, restrictions, and limitations may be set forth in the plan referred to in Paragraph 4.7.

4.6. To construct, maintain, repair, and replace the following improvements in order to accommodate the passive recreational uses and activities permitted in Paragraph 4.5: a paved parking lot with a maximum capacity of 50 vehicles; sanitary facilities; and primitive campsites. Subject to the plan set forth in Paragraph 4.7, an equestrian center, not to exceed 2 acres in size, may also be constructed on the Property, which may include an indoor arena and boarding

stables. No other accommodating improvements shall be permitted without the prior written consent of the Trust pursuant to the provisions of Paragraph 5.

4.7. To develop a plan setting forth the terms and conditions on which members of the public may make use of the Property for permitted passive recreational activities, including, without limitation, restrictions and limitations on the hours of use, the areas of use, and the number of people who may come onto the Property to engage in such permitted activities at any given time; provided, however, that said plan, and any amendments thereto, are subject to the prior written approval of the Trust pursuant to the provisions of Paragraph 5; and provided further that development of the Property for any amusement or theme park, golf course, tennis courts, swimming pools, playing fields, or similar active recreational uses is prohibited; and provided further that any uses otherwise permitted that would require more than two percent (2%) of the total land area to be paved or developed with impervious surfaces (including, but not limited to, roads, parking lots, roofs, and similar improvements), excluding impervious surfaces existing as of the date of this Deed of Easement, are also prohibited. The plan also will examine possible restrictions on the use of bicycles on the Property, with consideration being given to such factors as the potential threat of erosion and other harm to the terrain, the nature of the proposed uses, and the ability of Grantors to afford the cost of mitigating any damage to the Property or injury to other users of the Property that might be caused by such proposed bicycle uses.

4.8. To restore land damaged by fire, flood, earthquake, wind, or other forces.

4.9. To construct a single-family residence no greater than two thousand (2,000) square feet for use as a caretaker's residence.

4.10. To maintain, repair, replace, and/or improve the existing barn, so long as it remains in its present location and does not increase in height or size.

4.11. To graze any species, provided that a "custom range land inventory" and a "proper grazing use plan" or a future equivalent as approved by the USDA Natural Resource Conservation Service, or any successor or equivalent agency, are obtained and complied with.

4.12. For the benefit of the original Grantors and at the original Grantors' sole expense, to preserve, enhance, restore, or create habitat for off-site mitigation associated with the Village Green Homes and Creekside Homes Development's U. S. Corps of Engineers, Title 26, Nationwide Permit for wetland

mitigation, for the California Red-Legged Frog (*Rana aurora draytonii*). Said habitat shall be in the location described in Exhibit B, which is attached hereto and incorporated by this reference. In the event that this off-site mitigation does not take place prior to January 1, 2005, this reserved right shall terminate. At the Trust's sole discretion, additional land may be added to the land described in Exhibit B at the request of the original Grantors.

4.13. At Grantors' sole expense, to preserve, enhance, restore, or create habitat on the Property in compliance with any requirements imposed upon Grantors by a governmental agency pursuant to applicable laws regarding endangered or threatened species which exist on the Property; provided, however, that Grantors shall use their best efforts to utilize no more of the Property for said purposes than is necessary to comply with such requirements.

## 5. Notice and Approval.

5.1. Notice of Intention to Undertake Certain Activities or Uses. The purpose of requiring Grantors to notify the Trust prior to undertaking certain activities or uses, as provided in the third sentence of Paragraph 3, is to afford the Trust an adequate opportunity to consider the proposed activities or uses to determine whether or not they are permitted under this Deed of Easement and, if it is determined that they are permitted, to monitor said activities or uses to ensure that they are designed and carried out in a manner that is consistent with the purpose of this Deed of Easement, as well as to enable Grantors to engage in permitted activities without concern as to unintended violations of this Deed of Easement. Whenever notice is required, or Grantors wish confirmation that they may proceed with an activity or use, Grantors shall solicit the approval of the Trust. Grantors shall submit a written description of the proposed activity or use, which shall be referred to herein as an "application," describing the nature, scope, design, location, timetable, and any other material aspect of the proposed activity or use in sufficient detail to permit the Trust to make an informed judgment as to its consistency with the purpose of this Deed of Easement. Within thirty (30) days after the receipt of the application, the Trust shall inform Grantors in writing whether the application is complete or whether additional, specified information is required for a complete application. In the event that the Trust reasonably determines that the advice of a consultant such as an engineer, ecologist, attorney, or surveyor is necessary to determine whether an application is complete and/or to assist the Trust in reviewing the application, a fee based upon an estimate to cover such costs will be required as part of the application.

5.2. Trust's Approval. When the Trust's approval is required or sought as set forth herein, the Trust shall grant or deny its approval in writing within sixty (60) days after receipt of Grantors' complete application. Criteria that the Trust may consider include, without limitation, compliance with the provisions of this Deed of Easement, the capability of the proposed activity or use to preserve and enhance the Conservation Values protected by this Deed of Easement, the manner in which the proposed activity or use is to be carried out, and the likely effect of the proposed activity or use upon the Conservation Values of the Property. The Trust's approval may be withheld upon a reasonable determination by the Trust that the activity or use as proposed would be inconsistent with the purpose of this Deed of Easement. The Trust acknowledges and agrees that the Property is intended to be used for passive recreational uses, and that the preservation of the Property for passive recreation by the general public is one of the conservation purposes of this Deed of Easement. Failure of the Trust to respond to a notice within sixty (60) days of receipt of that notice shall constitute a denial unless Grantors send a second notice by certified mail return, postage prepaid, return receipt requested, and an additional thirty (30) days have expired without a response, in which case the request is deemed approved.

6. Trust's Remedies.

6.1. Notice of Violation; Corrective Action. If the Trust determines that a violation of the terms of this Deed of Easement has occurred or is threatened, the Trust shall give written notice to Grantors of such violation and demand corrective action sufficient to cure the violation and, where the violation involves injury to the Property resulting from any use or activity inconsistent with the purpose of this Deed of Easement, to restore the portion of the Property so injured to its prior condition in accordance with a plan approved by the Trust.

6.2. Injunctive Relief. If Grantors fail to cure the violation within 10 days after receipt of notice thereof from the Trust or under circumstances where the violation cannot reasonably be cured within a 10-day period, fail to begin curing such violation within the 10-day period, or fail to continue diligently to cure such violation until finally cured, the Trust may bring an action at law or in equity in a court of competent jurisdiction to enforce the terms of this Deed of Easement, to enjoin the violation, ex parte if necessary, by temporary or permanent injunction, and to require the restoration of the Property to the condition that existed prior to any such injury.

6.3. Damages. The Trust shall be entitled to recover damages for violation of the terms of this Deed of Easement or injury to any of the

Conservation Values protected by this Deed of Easement, including, without limitation, damages for the loss of scenic, aesthetic, or environmental values. Without limiting Grantors' liability therefor, the Trust, in its sole discretion, may apply any damages recovered to the cost of undertaking any corrective action on the Property.

6.4 Emergency Enforcement. If the Trust, in its sole discretion, determines that circumstances require immediate action to prevent or mitigate significant damage to the Conservation Values of the Property, the Trust may pursue its remedies under this Paragraph 6 without prior notice to Grantors or without waiting for the period provided for cure to expire.

6.5. Scope of Relief. The Trust's rights under this Paragraph 6 apply equally in the event of either actual or threatened violations of the terms of this Deed of Easement. Grantors agree that the Trust's remedies at law for any violation of the terms of this Deed of Easement are inadequate and that the Trust shall be entitled to the injunctive relief described in Paragraph 6.2, both prohibitive and mandatory, in addition to such other relief to which the Trust may be entitled, including specific performance of the terms of this Deed of Easement, without the necessity of proving either actual damages or the inadequacy of otherwise available legal remedies. The Trust's remedies described in this Paragraph 6 shall be cumulative and shall be in addition to all remedies now or hereafter existing at law or in equity.

6.6. Costs of Enforcement. All reasonable costs incurred by the Trust in enforcing the terms of this Deed of Easement against Grantors, including, without limitation, costs of suit and reasonable attorneys' fees, and any costs of restoration necessitated by Grantors' violation of the terms of this Deed of Easement shall be borne by Grantors; provided, however, that if Grantors ultimately prevail in a judicial enforcement action, Grantors shall be entitled to reimbursement for costs of suit and reasonable attorneys' fees.

6.7. Forbearance. Forbearance by the Trust to exercise its rights under this Deed of Easement in the event of any breach of any term of this Deed of Easement by Grantors shall not be deemed or construed to be a waiver by the Trust of such term or of any subsequent breach of the same or any other term of this Deed of Easement. No delay in or omission of the exercise of any right or remedy upon any breach by Grantors shall impair such right or remedy or be construed as a waiver.

6.8. Waiver of Certain Defenses. Grantors hereby waive any defense of laches, waiver, estoppel, or prescriptive rights associated with any notice of violation, or any delay in notice of violation, under this Deed of Easement.

6.9. Acts Beyond Grantors' Control. Nothing contained in this Deed of Easement shall be construed to entitle the Trust to bring any action against Grantors for any injury to or change in the Property resulting from causes beyond Grantors' control, including, without limitation, fire, flood, storm, and earth movement, or from any prudent action taken by Grantors under emergency conditions to prevent, abate, or mitigate significant injury to the Property resulting from such causes.

7. Access. Use of the Property by members of the public for the passive recreational activities permitted herein is subject to whatever terms, conditions, restrictions, and limitations may be set forth in the plan referred to in Paragraph 4.7. Should such use become inconsistent with the purpose of this Deed of Easement or impair or interfere with, or threaten to impair or interfere with, the Conservation Values of the Property public access may be denied. Should the Trust disseminate to the public any materials regarding public access to the Property, the Trust shall include a statement to the effect that public access is subject to certain terms and conditions and shall, if so requested by Grantors, include a telephone number (which shall be provided to the Trust by Grantors) for prospective visitors to call if they wish information about said terms and conditions.

8. Costs, Liabilities, Taxes, and Environmental Compliance.

8.1. Costs, Legal Requirements, and Liabilities. Grantors retain all responsibilities and shall bear all costs and liabilities of any kind related to the ownership, operation, upkeep, and maintenance of the Property, including, without limitation, the maintenance of adequate liability insurance coverage. Grantors remain solely responsible for obtaining any applicable government permits and approvals for any construction or other activity or use permitted by this Deed of Easement, and all such construction or other activity or use shall be undertaken in accordance with all applicable federal, state, and local laws, regulations, and requirements. Grantors shall keep the Property free of any liens arising out of any work performed for or materials furnished to Grantors.

8.2. Taxes. Grantors shall pay before delinquency all taxes, assessments, fees, and charges of whatever description levied on or assessed

against the Property by competent authority (collectively "taxes"), including, without limitation, any taxes imposed upon, or incurred as a result of, this Deed of Easement, and shall furnish the Trust with satisfactory evidence of payment upon request.

8.3. Representations and Warranties. Grantors represent and warrant that, after reasonable investigation and to the best of their knowledge:

8.3.1. No substance defined, listed, or otherwise classified pursuant to any federal, state, or local law, regulation, or requirement as hazardous, toxic, polluting, or otherwise contaminating to the air, water, or soil, or in any other way harmful or threatening to human health or the environment, exists or has been released, generated, treated, stored, used, disposed of, deposited, abandoned, or transported in, on, under, from, or across the Property;

8.3.2. There are not now any underground storage tanks located on the Property, whether presently in service or closed, abandoned, or decommissioned, and no underground storage tanks have been removed from the Property in a manner not in compliance with applicable federal, state, and local laws, regulations, and requirements;

8.3.3. Grantors and the Property are in compliance with all federal, state, and local laws, regulations, and requirements applicable to the Property and its use;

8.3.4. There is no pending or threatened litigation in any way affecting, involving, or relating to the Property; and

8.3.5. No civil or criminal proceedings or investigations have been instigated at any time or are now pending, and no notices, claims, demands, or orders have been received, arising out of any violation or alleged violation of, or failure to comply with, any federal, state, or local law, regulation, or requirement applicable to the Property or its use, nor do there exist any facts or circumstances that Grantors might reasonably expect to form the basis for any such proceedings, investigations, notices, claims, demands, or orders.

8.4. Remediation. If, at any time, there occurs, or has occurred, a release in, on, from, under, or about the Property of any substance now or hereafter defined, listed, or otherwise classified pursuant to any federal, state, or local law, regulation, or requirement as hazardous, toxic, polluting, or otherwise contaminating to the air, water, or soil, or in any other way harmful or threatening

to human health or the environment, Grantors agree to take all steps necessary to assure its containment and remediation, including, without limitation, any cleanup that may be required, unless the release was caused by the Trust, in which case the Trust shall be responsible therefor.

8.5. Control. Nothing in this Deed of Easement shall be construed as giving rise, in the absence of judicial decree, to any right or ability in the Trust to exercise physical or managerial control over the day-to-day operations of the Property, or any of Grantors' activities on the Property, or otherwise to become an operator with respect to the Property within the meaning of The Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended ("CERCLA"), and similar federal and state laws.

8.6. Hold Harmless. Grantors hereby release and agree to hold harmless, indemnify, and defend (with counsel reasonably acceptable to the Trust) the Trust and its members, trustees, officers, directors, employees, agents, and contractors and the heirs, personal representatives, successors, and assigns of each of them (collectively, the "Indemnified Parties") from and against any and all liabilities, penalties, fines, charges, costs, losses, damages, expenses, causes of action, claims, demands, orders, judgments, or administrative actions, including, without limitation, reasonable attorneys' fees, arising from or in any way connected with:

8.6.1. Injury to or the death of any person, or physical damage to any property, resulting from any act, omission, condition, or other matter related to or occurring on or about the Property, regardless of cause, unless due solely to the negligence of any of the Indemnified Parties;

8.6.2. The violation or alleged violation of, or other failure to comply with, any state, federal, or local law, regulation, or requirement, including, without limitation, CERCLA and similar state and federal laws, by any person other than any of the Indemnified Parties, in any way affecting, involving, or relating to the Property;

8.6.3. The presence or release, in, on, from, under, or about the Property at any time, of any substance now or hereafter defined, listed, or otherwise classified pursuant to any federal, state, or local law, regulation, or requirement as hazardous, toxic, polluting, or otherwise contaminating the air, water, or soil, or in any other way harmful or threatening to human health or the environment, unless caused solely by any of the Indemnified Parties; and

8.6.4. The obligations, covenants, representations, and warranties of Paragraphs 8.1 through 8.5.

9. Extinguishment and Condemnation.

9.1. Extinguishment. If circumstances arise in the future that render the purpose of this Deed of Easement impossible to accomplish, this Deed of Easement can be terminated or extinguished, whether in whole or in part, only by judicial proceedings in a court of competent jurisdiction. The amount of the proceeds to which the Trust shall be entitled, after the satisfaction of prior claims, from any sale, exchange, or involuntary conversion of all or any portion of the Property subsequent to such termination or extinguishment, shall be the stipulated fair market value of the Deed of Easement, or proportionate part thereof, as determined in accordance with Paragraph 9.2.

9.2. Valuation. This Deed of Easement constitutes a real property interest immediately vested in the Trust, which, for the purposes of Paragraph 9.1, the parties stipulate to have a fair market value determined by multiplying (1) the fair market value of the Property unencumbered by the Deed of Easement (minus any increase in value after the date of this grant attributable to improvements) by (2) the ratio of the value of the Deed of Easement at the time of this grant to the value of the Property, without deduction for the value of the Deed of Easement, at the time of this grant. The values at the time of this grant shall be those values used to calculate the deduction for federal income tax purposes allowable by reason of this grant, pursuant to Section 170(h) of the Internal Revenue Code. For the purposes of this Paragraph 9.2, the ratio of the value of the Deed of Easement to the value of the Property unencumbered by the Deed of Easement shall remain constant.

9.3. Condemnation. If all or any part of the Property is taken by exercise of the power of eminent domain or acquired by purchase in lieu of condemnation, whether by public, corporate, or other authority, so as to terminate this Deed of Easement in whole or in part, Grantors and the Trust shall act jointly to recover the full value of the interests in the Property subject to the taking or in-lieu purchase and all direct and incidental damages resulting therefrom. All expenses reasonably incurred by Grantors and the Trust in connection with the taking or in-lieu purchase shall be paid out of the amount recovered. The Trust's share of the balance of the amount recovered shall be determined by multiplying that balance by the ratio set forth in Paragraph 9.2.

9.4. Application of Proceeds. The Trust shall use any proceeds received under the circumstances described in this Paragraph 9 in a manner consistent with the Trust's conservation purposes, which are exemplified by this grant.

10. Assignment. This Deed of Easement is transferable, but the Trust may assign its rights and obligations under this Deed of Easement only to an organization that is a qualified organization at the time of transfer under Section 170(h) of the Internal Revenue Code or any successor provision then applicable, and authorized to acquire and hold conservation easements under California Civil Code Section 815.3 or any successor provision then applicable or the laws of the United States. As a condition of such transfer, the Trust shall require that the conservation purposes that this grant is intended to advance continue to be carried out. The Trust agrees to give written notice to Grantors of an assignment at least 10 days prior to the date of such assignment. The failure of the Trust to give such notice shall not affect the validity of such assignment nor shall it impair the validity of this Deed of Easement or limit its enforceability in any way.

11. Subsequent Transfers. Grantors agree to incorporate the terms of this Deed of Easement by reference in any deed or other legal instrument by which they divest themselves of any interest in all or a portion of the Property or by which they grant to a third party a right or privilege to use the Property, including, without limitation, any easement, any leasehold interest, and any license agreement. Grantors further agree to give written notice to the Trust of the transfer of any such interest or the granting of any such privilege at least thirty (30) days prior to the date of such transfer or grant. The failure of Grantors to perform any act required by this Paragraph 11 shall not impair the validity of this Deed of Easement or limit its enforceability in any way.

12. Amendment. If circumstances arise under which an amendment to or modification of this Deed of Easement would be appropriate, Grantors and the Trust are free to jointly amend this Deed of Easement; provided, however, that no amendment shall be allowed that will affect the qualification of this Deed of Easement or the status of the Trust under any applicable laws, including Section 815 et seq. of the California Civil Code or Section 170(h) of the Internal Revenue Code, and any amendment shall be consistent with the purpose of this Deed of Easement and shall not affect its perpetual duration. Any such amendment shall be recorded in the Official Records of Napa County, California. This Deed of Easement is not otherwise subject to amendment of any sort.

13. Estoppel Certificates. Upon receipt of a written request by Grantors, the Trust shall within thirty (30) days thereafter execute and deliver to Grantors, or to any person designated by Grantors, any document, including an estoppel certificate, which certifies, to the best of the Trust's knowledge, Grantors' compliance with any obligation of Grantors contained in this Deed of Easement or otherwise evidences the status of this Deed of Easement. Such certification shall be limited to the condition of the Property as of the Trust's most recent inspection. If Grantors request more current documentation, the Trust shall conduct an inspection, at Grantors' expense, within 30 days of receipt of Grantors' written request therefor.

14. Subordination. Any financing lien or encumbrance shall be subordinate to this Deed of Easement, and the parties agree to execute such documents as may be reasonably required by Grantors' lender or lenders to accomplish such subordination.

15. Notices. Any notice, demand, request, consent, approval, or communication that either party desires or is required to give to the other shall be in writing and either served personally or sent by certified mail, postage prepaid, return receipt requested, or delivered by a nationally recognized overnight delivery service such as Federal Express or United Parcel Service, charges prepaid or charged to the sender's account. Addresses for purpose of giving notice are as follows:

To Grantors:

Jack H. Newell, Sr., and Bernice Newell  
Trustees of the Jack and Bernice Newell Family Trust  
285 American Canyon Road  
American Canyon, CA 94589  
Telephone: (707) 553-8925

To the Trust:

Napa County Land Trust  
1040 Main Street, Suite 203  
Napa, CA 94559  
Telephone: (707) 252-3270

or to such other address as either party from time to time shall designate by written notice to the other. When personally delivered, notice is effective upon delivery. When mailed, certified mail, postage prepaid, return receipt requested, notice is effective on receipt, if delivery is confirmed by a return receipt. When delivered by an overnight delivery service, notice is effective on delivery, if delivery is confirmed by the delivery service.

16. Recordation. The Trust shall record this instrument in timely fashion in the Official Records of Napa County, California, and may re-record it at any time as may be required to preserve the Trust's rights in this Deed of Easement.

Jack H. Newell, Sr., and Bernice Newell  
Trustees of the Jack and Bernice Newell Family Trust  
285 American Canyon Road  
American Canyon, CA 94589  
Telephone: (707) 553-8925

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16. Recordation. The Trust shall record this instrument in timely fashion in the Official Records of Napa County, California, and may re-record it at any time as may be required to preserve the Trust's rights in this Deed of Easement.

17. Negation of Partnership. Nothing in this Deed of Easement or its performance shall be construed to create between the Trust and Grantor, or any of their respective affiliates, a partnership or joint venture or the relationship of master and servant or principal and agent.

18. General Provisions.

18.1. Controlling Law. The interpretation and performance of this Deed of Easement shall be governed by the laws of the State of California.

18.2. Liberal Construction. Any general rule of construction to the contrary notwithstanding, this Deed of Easement shall be liberally construed in favor of the grant to effect the purpose of this Deed of Easement and the policy and purpose of Section 815 et seq. of the California Civil Code. If any provision in this instrument is found to be ambiguous, an interpretation consistent with the purpose of this Deed of Easement that would render the provision valid shall be favored over any interpretation that would render it invalid.

18.3. Severability. If any provision of this Deed of Easement, or the application thereof to any person or circumstance, is found to be invalid, the remainder of the provisions of this Deed of Easement, or the application of such provision to persons or circumstances other than those as to which it is found to be invalid, as the case may be, shall not be affected thereby.

18.4. Entire Agreement. This Deed of Easement sets forth the entire agreement of the parties with respect to the subject matter hereof and supersedes all

18.8. Termination of Rights and Obligations. A party's rights and obligations under this Deed of Easement terminate upon transfer of the party's interest in the Deed of Easement or the Property, except that liability for acts or omissions occurring prior to transfer and the obligations in Paragraph 8 shall survive transfer.

18.9. Counterparts. The parties may execute this instrument in two or more counterparts, which shall, in the aggregate, be signed by all parties; each counterpart shall be deemed an original instrument as against any party who has signed it. In the event of any disparity between the counterparts produced, the recorded counterpart shall be controlling.

TO HAVE AND TO HOLD unto the Trust, its successors and assigns,  
WITNESS the following signatures.

**GRANTORS**

Dated: 12/23/99

Jack H Newell Sr  
JACK H. NEWELL, SR., Trustee  
of the Jack and Bernice Newell Family Trust,  
created on November 25, 1991

Dated: 12/23/99

Bernice Newell  
BERNICE NEWELL, Trustee  
of the Jack and Bernice Newell Family Trust,  
created on November 25, 1991

**THE TRUST**

NAPA COUNTY LAND TRUST  
A California Nonprofit Corporation

Dated: December 19, 1999

By: Ann Taylor Schwing  
ANN TAYLOR SCHWING  
Its: President

STATE OF CALIFORNIA }  
COUNTY OF NAPA } ss

On 12/23/99 before me, Tami M. Robles, Notary Public of the State of California, personally appeared JACK H. NEWELL SR. & Bernice Newell personally known to me (or proved to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

Signature Tami M. R Seal

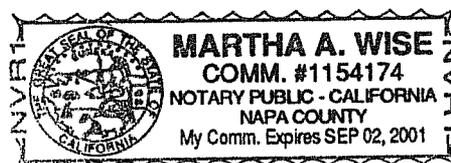


STATE OF CALIFORNIA }  
COUNTY OF NAPA } ss

On DEC. 19, 1999 before me, Martha A. Wise, Notary Public of the State of California, personally appeared ANN TAYLOR SCHWING personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Martha A. Wise Seal



## SCHEDULE OF EXHIBITS

- A. Metes and Bounds Description of Property Subject to Deed of Easement (see Recital A)
- B. Metes and Bounds Description of Off-Site Mitigation Habitat Location (see Paragraph 4.12)

## EXHIBIT "A"

All that real property situate in Sections 19 and 20 in Township 4 North, Range 3 West, Mount Diablo Base and Meridian, in Napa County, California, and being all of Parcel Two and a portion of Parcel One as said Parcels are described in the deed to Jack H. Newell, Sr. and Bernice Newell, Trustees of The Jack and Bernice Newell Family Trust recorded January 25, 1993 as Document Number 1993-002405 in the Office of the Recorder, said Napa County, and more particularly described as follows:

Beginning at the most southeasterly corner of the tract of land shown as surveyed on the map of record in Book 21 of Surveys at page 69 in said Recorder's office and running thence South 63°58'34" East 1226.18 feet to a fence corner; thence following said fence, South 18°01'37" West 778.80 feet to a rebar monument; thence North 89°49'05" East 2383.64 feet to the most westerly corner of Parcel 3 as it is shown on the map of record in Book 13 of Parcel Maps at page 11 in said Recorder's office; thence following the northerly line of said Parcel 3, North 88°20'58" East 829.37 feet; thence South 88°43'18" East 316.53 feet; thence South 87°05'35" East 431.33 feet; thence South 89°21'25" East 134.32 feet to the Napa-Solano County line; thence following said County line North 45°02'08" West 338.67 feet to a stone monument; thence North 18°59'40" West 774.61 feet; thence North 47°14'20" West 932.33 feet to a stone monument; thence North 24°42'36" West 451.49 feet to a stone monument; thence North 32°30'14" East 959.68 feet; thence North 6°30'33" West 694.19 feet to a stone monument; thence North 37°11'09" East 275.22 feet to a stone monument; thence North 28°34'06" West 1743.55 feet; thence North 73°23'35" East 1966.50 feet; thence North 37°19'36" West 949.60 feet to the most southerly corner of Parcel C as it is shown on the map of record in Book 10 of Parcel Maps at pages 87-88 in said Recorder's office; thence following last said Parcel's southerly line North 88°30'33" West 2030.27 feet; thence North 89°18'20" West 926.60 feet to a fence corner; thence South 12°58'45" West 1761.51 feet; thence South 17°36'30" West 272.58 feet; thence South 16°18'47" West 1159.62 feet to a fence corner, last said fence corner bearing North 12°57'09" East 1236.18 feet and North 30°26'33" East from the point of beginning of this description; thence from last said fence corner North 76°57'08" West 2473.67 feet to a point, said point bearing South 76°57'08" East 1207.34 feet from an angle iron fence post; thence from said point South 13°02'52" West 1164.17 feet; thence due West 827.94 feet; thence South 50°48'37" West 84.28 feet to a line running parallel to a creek, paralleling the meanderings thereof, and 50.00 feet north and northwesterly therefrom; thence along said parallel line the following courses and distances:

North 82°36'04" West 58.74 feet,  
North 52°14'07" West 110.24 feet,  
South 80°13'59" West 49.39 feet,  
South 23°21'19" West 92.39 feet,  
South 69°46'26" West 74.55 feet,  
North 81°53'58" West 84.69 feet,  
South 25°20'00" West 150.31 feet,  
South 1°50'52" West 143.25 feet,  
North 88°15'48" West 81.67 feet,  
South 15°56'58" West 94.29 feet,  
South 55°14'13" West 83.12 feet,  
South 0°43'01" East 126.71 feet,  
South 27°13'07" West 100.83 feet,  
South 34°49'17" East 210.64 feet,

**Legal Description  
(Continued)**

South 14°29'48" East 37.36 feet,  
South 48°21'11" West 58.55 feet,  
South 27°02'46" West 44.76 feet,  
South 68°12'38" West 144.46 feet,  
South 18°35'31" West 85.23 feet,  
South 52°13'56" West 121.06 feet and  
South 10°25'54" East 91.68 feet to the intersection of said parallel line with a line running parallel to,  
and 170.00 feet northwesterly therefrom, the southeasterly line of said Parcel One as described in the  
aforesaid Document Number 1993-002405; thence along last said parallel line South 38°42'00" West  
1302.56 feet to the intersection thereof with the western line of said Parcel One; thence along said  
western line South 6°48'00" East 238.35 feet, more or less, to the most southern corner thereof, said  
southern corner being also the most western corner of a tract of land described in the Deed to Bernice  
Newell recorded September 10, 1986 in Book 1465 at page 276 of Official Records in said Recorder's  
office; thence North 38°42'00" East 2549.64 feet to a fence corner; thence South 67°32'00" East  
1113.69 feet to a rebar monument; thence South 19°26'40" West 137.11 feet to a fence corner; thence  
South 73°31'26" East 627.56 feet; thence South 74°47'05" East 420.45 feet; thence South 70°29'46"  
East 402.60 feet; thence South 73°39'24" East 168.16 feet; thence South 64°27'00" East 232.98 feet to  
the point of beginning.

## EXHIBIT B

(Description of Mitigation Area for the California Red-Legged Frog)

All that real property situate in Section 19 in Township 4 North, Range 3 West, Mount Diablo Base and Meridian, in Napa County, California, and being a portion of Parcel One as said Parcel is described in the deed to Jack H. Newell, Sr. and Bernice Newell, Trustees of The Jack and Bernice Newell Family Trust recorded January 25, 1993 as Document Number 1993-002405 in the Office of the Recorder, said Napa County, and more particularly described as follows:

Beginning at the most southern corner of the aforesaid Parcel One, said southern corner being also the most western corner of a tract of land described in the Deed to Bernice Newell recorded September 10, 1986 in Book 1465 at page 276 of Official Records in said Recorder's office; thence North  $38^{\circ}42'00''$  East 2549.64 feet to a fence corner; thence North  $21^{\circ}00'12''$  West 530.03 feet to a line running parallel to a creek, paralleling the meanderings thereof, and 50.00 feet north and northwesterly therefrom; thence along said parallel line the following courses and distances:

South  $69^{\circ}46'26''$  West 74.55 feet,

North  $81^{\circ}53'58''$  West 84.69 feet,

South  $25^{\circ}20'00''$  West 150.31 feet,

South  $1^{\circ}50'52''$  West 143.25 feet,

North  $88^{\circ}15'48''$  West 81.67 feet,

South  $15^{\circ}56'58''$  West 94.29 feet,

South  $55^{\circ}14'13''$  West 83.12 feet,

South  $0^{\circ}43'01''$  East 126.71 feet,

South  $27^{\circ}13'07''$  West 100.83 feet,

South  $34^{\circ}49'17''$  East 210.64 feet,

South  $14^{\circ}29'48''$  East 37.36 feet,

South  $48^{\circ}21'11''$  West 58.55 feet,

South  $27^{\circ}02'46''$  West 44.76 feet,

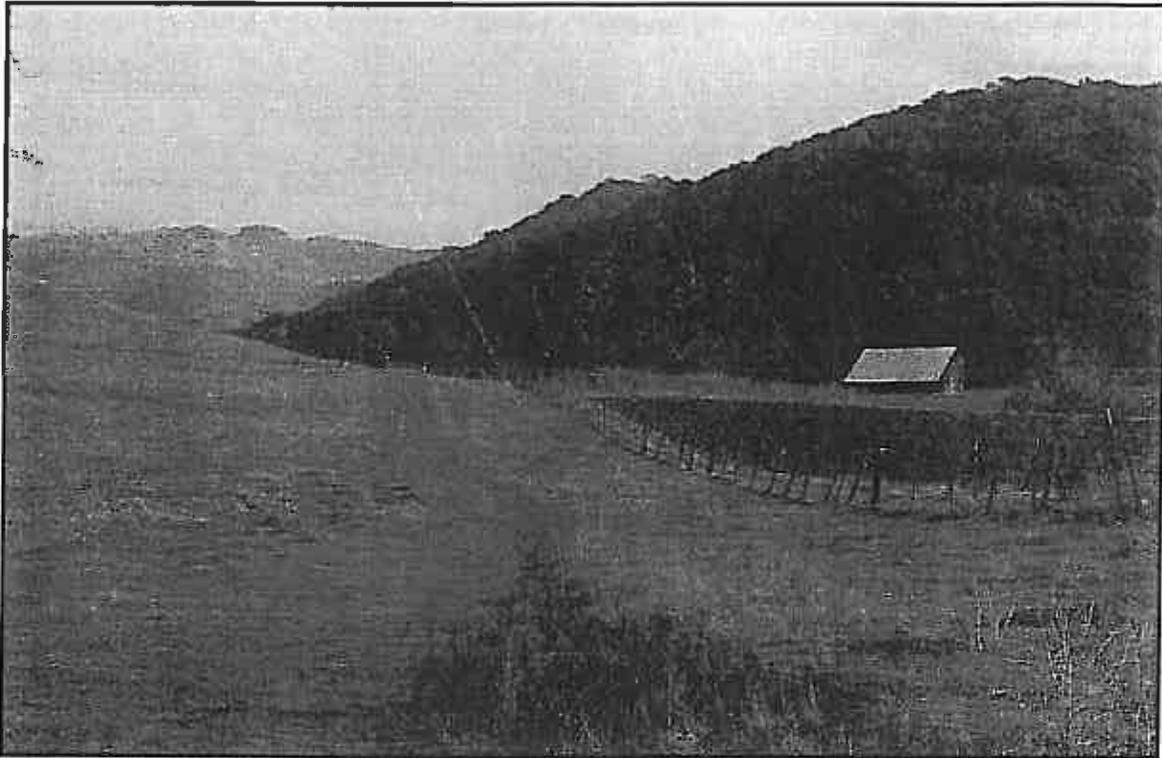
South  $68^{\circ}12'38''$  West 144.46 feet,

South  $18^{\circ}35'31''$  West 85.23 feet,

South  $52^{\circ}13'56''$  West 121.06 feet and

South  $10^{\circ}25'54''$  East 91.68 feet to the intersection of said parallel line with a line running parallel to, and 170.00 feet northwesterly therefrom, the southeasterly line of said Parcel One as described in the above mentioned Document Number 1993-002405; thence along last said parallel line South  $38^{\circ}42'00''$  West 1302.56 feet to the intersection thereof with the western line of said Parcel One; thence along said western line South  $6^{\circ}48'00''$  East 238.35 feet, more or less, to the point of beginning.

**MANAGEMENT PLAN**  
**JACK AND BERNICE NEWELL**  
**OPEN SPACE PRESERVE**  
City of American Canyon  
The Land Trust of Napa County



Prepared for:  
**The Land Trust of Napa County**  
1040 Main Street, Suite 203  
Napa, California 94559

By:  
**Bruce Randolph Anderson & Associates**

With:  
**Napa Biological Services**  
**Natural Resources Conservation Service, Napa County**  
**Matt Freeman. GIS Consultant**

August, 2001

*Revised and Adopted: November 2001*

NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN

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With:  
**Napa Biological Services**  
**Natural Resources Conservation Service, Napa County**  
**Matt Freeman, GIS Consultant**

August, 2001  
Revised and Adopted: November 2001

**Acknowledgements:**

This project was made possible by a grant from the California State Coastal Conservancy Bay Area Conservation Program

The following persons played a significant role assisting the consultant team in the development of this Management Plan:

John Hoffnagle, Executive Director, Land Trust of Napa County

Vanessa Johnson, Field Representative, Land Stewardship and Protection, Land Trust of Napa County, Project Manager

Mathew Plate, Parks and Recreation Commissioner, City of American Canyon

Mark Joseph, City Manager, City of American Canyon

Cheryl Braulik, Associate Engineer, City of American Canyon Department of Public Works

Keith Caldwell, Chief, American Canyon Fire Protection District

# NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN

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# NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN

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# NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN

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# NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

## Section A: Introduction and Summary



In December 1999, Jack and Bernice Newell donated a scenic 640 acre property (see Figure 1) to the City of American Canyon, to be dedicated as public open space for the citizens of the City and the region to enjoy forever, and to protect valuable agricultural and natural resources. With assistance from the Land Trust of Napa County, which holds a conservation easement over the property, and grant support from the State Coastal Conservancy's Bay Area Program, a long-term management plan is being prepared for Newell Open Space Preserve.

### Project Objectives

The primary objectives of the management plan are to:

1. Evaluate and document site conditions and resources:
  - vegetation
  - wildlife
  - soils, hydrology, geology
  - cultural and archaeological resources
  - adjacent land uses and plans (especially the adjoining Lynch Canyon Preserve in Solano County)
2. Protect and restore resources:
  - native vegetation protection and enhancement
  - wildlife protection and habitat enhancement
  - grazing and grassland management to support continued agricultural use
3. Provide for public use and enjoyment:
  - designated trail system; special use and protected areas
  - improvements to roads, bridges, fences, signs, barn area; possible caretaker's residence
  - site and recreational use management plans

NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

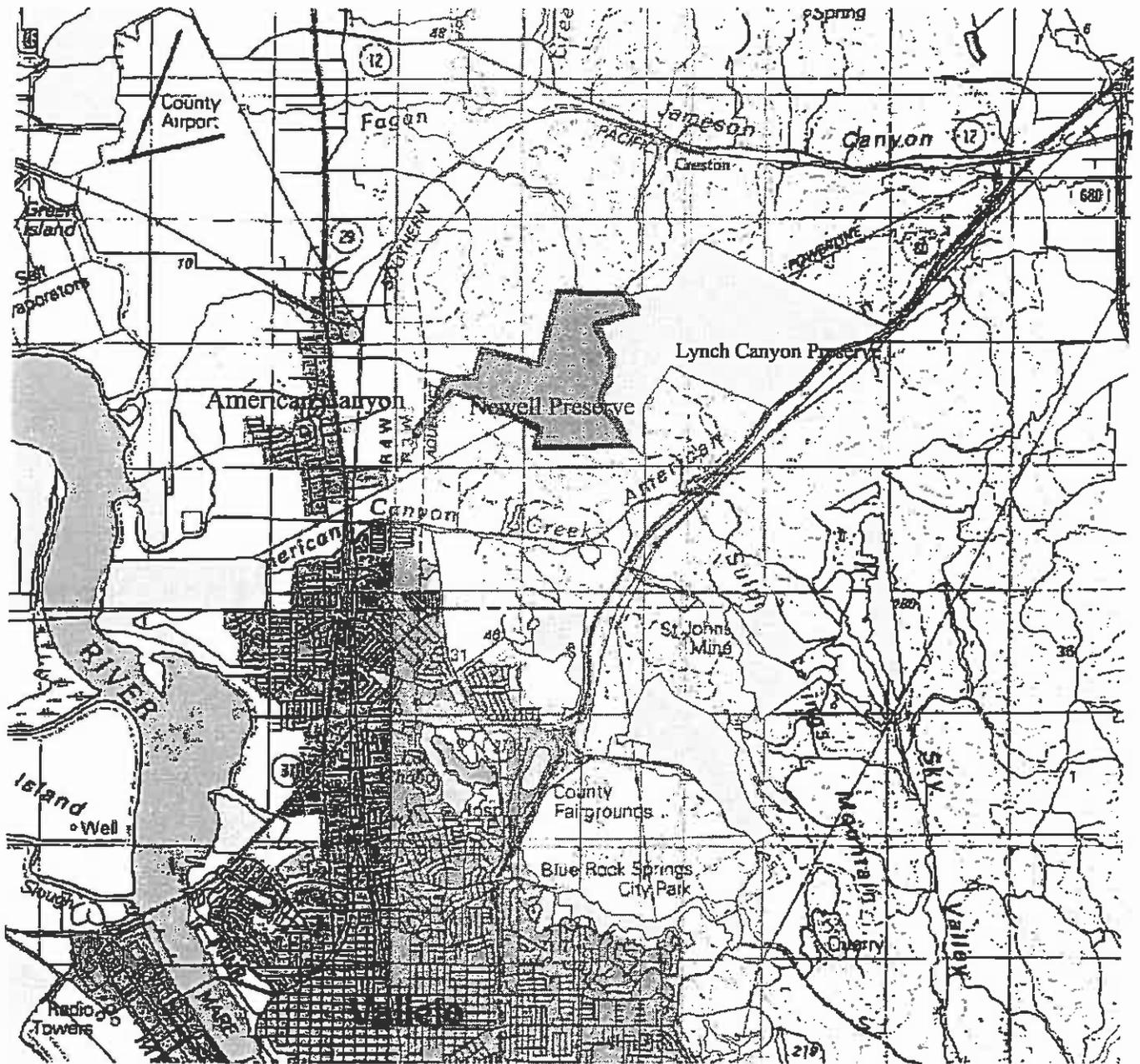


Figure 1  
Regional Location Map

1-2

Print Date: 2/6/2002

BRUCE RANDOLPH ANDERSON & ASSOCIATES

# NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

## Project Phases and Plan Organization

The Part One of the Management Plan documents current site conditions and identifies opportunities, needs and constraints.

Part Two is the Use and Management Program, defining what uses, activities and improvements are appropriate for the site, and generally where and when they should occur. These decisions are based on the Part One findings, and on input from the owners, managers, the general public, and specific stakeholder groups.

The third and final portion of the Management Plan is the Plan Summary and Estimate. This provides a complete list and a very general estimate of the management and improvement projects and tasks, identifying specific requirements, responsibilities, cost, funding or other means of implementation, and general priorities and timing.

The technical appendices, in a separate document, include background and detailed information for the Plan.



### Site Overview

The Newell Open Space Preserve site consists of 640 acres of steep hills just east of the limits of the City of American Canyon (see Figure 2). The site is located near the far southeastern corner of Napa County, and the eastern boundary of the site is generally consistent with the Napa-Solano County line.

The site is geographically and environmentally important and unique for a number of reasons. It lies at the crest of the eastern branch of the Coast Range, at the division between the San Francisco Bay and the Central Valley. This location results in dynamic wind and fog conditions almost year-round, spectacular views in both directions, and unique site geology and vegetation. The site provides habitat for federally listed threatened and endangered animal species (Golden eagles and Red-legged frogs), and plant species (Tiburon paintbrush). The site also presents important recreational opportunities, including a key segment of the regionally-adopted Bay Area

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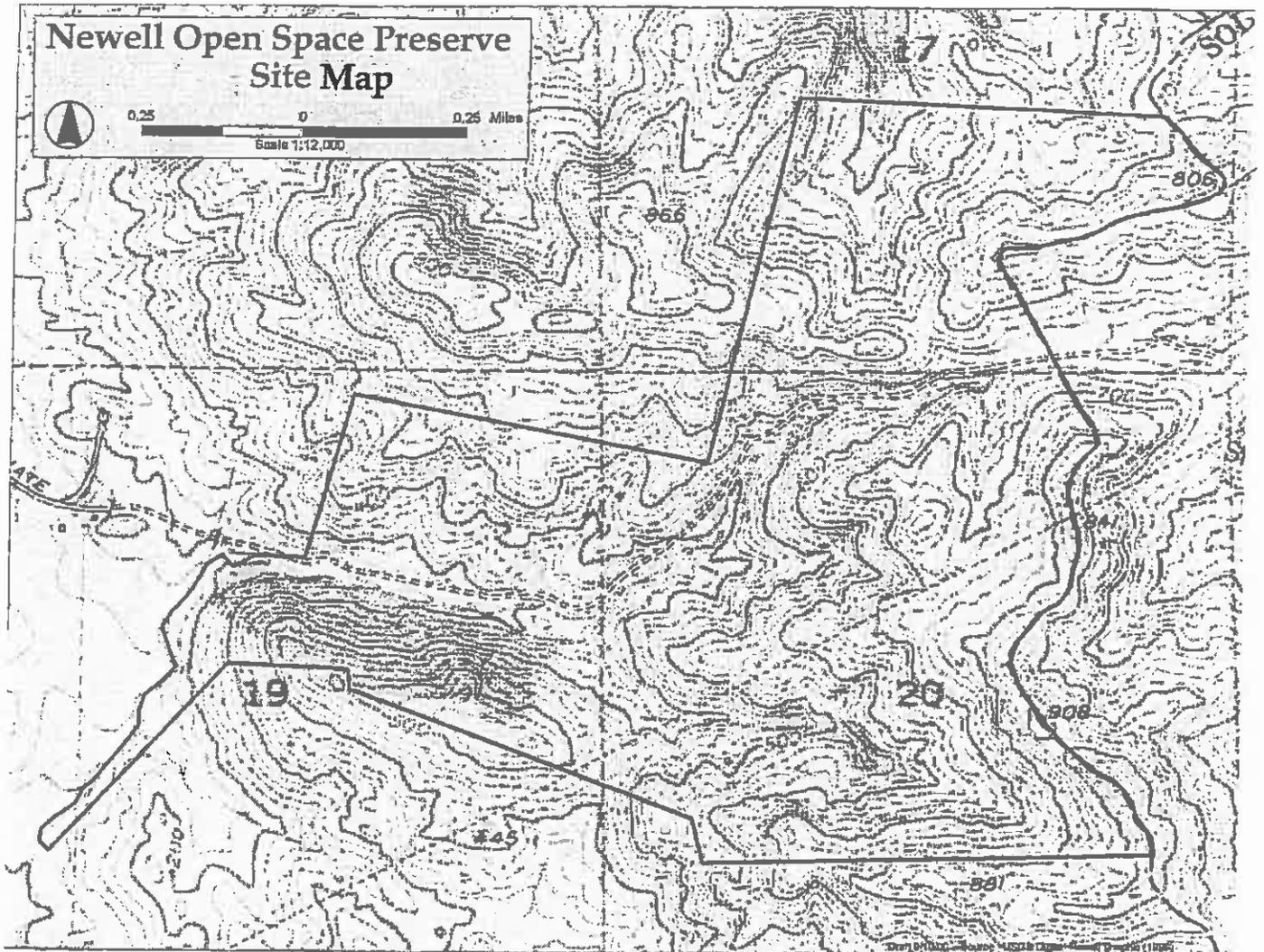


Figure 2 - Site Overview Map

## NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

Ridge Trail and opportunity for important east-west trail connection between Solano County and Napa County.

A landfill project, proposed by the American Canyon Development Company during the 1980s, would have created a major solid waste landfill on what is now the Preserve site. The project proponents had purchased the property from Mr. Newell. When the project did not prove to be feasible, Mr. Newell subsequently purchased the land including the preserve site back at auction.

The site is part of a region of productive agricultural lands within Napa and Solano County that have been designated as important resources for protection by both counties (per *Napa County General Plan Land Use Element and Zoning Map, Solano County General Plan Land Use and Circulation Element*). The site is adjacent to, and is currently grazed as a unit with, the 1039 acre Lynch Canyon Open Space Preserve, owned by the Solano County Farmlands and Open Space Foundation. The Lynch Canyon site is part of a complex of 10,000 acres of existing and proposed open space in western Solano County that the Foundation and other local agencies and organizations are actively working to protect.

The Newell Preserve and the Lynch Canyon Preserve are at the cross roads of major regional trail connections envisioned by the respective county General Plans, the General Plans of American Canyon and other cities in the region, and in particular by the Bay Area Ridge Trail Council, an organization working to implement a trail system ringing the entire nine-county Bay region.

### Project Team and Approach

The project team for the Management Plan includes:

- Bruce Randolph Anderson & Associates, Planners and Landscape Architects – overall project management, site assessment, resource management and recreational use planning; Randy Anderson, Principal; Jane Buxton, Associate;
- Jake Ruygt, Botanist, Napa Biological Services – vegetation and wildlife assessment;
- Phillip Blake, U.S. Department of Agriculture, Natural Resource Conservation Service, Napa County Office – grazing management, erosion control and stream bank protection;

## NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

- Keith Caldwell, Chief of the American Canyon Fire Protection District - fire management and site management;
- Matt Freeman, Consultant - geographic information systems (GIS) mapping.

Documentation of existing conditions has drawn heavily from information contained in the *Draft Environmental Impact Report for the American Canyon Replacement Landfill Project*, prepared in February, 1989 by EIP Associates for the Napa County Conservation, Development and Planning Department.

The Landfill EIR contains extensive useful information about the site, particularly in the areas of geology, soils and hydrology. This section of the current report is basically condensed directly from the EIR text, with added observations regarding stream conditions related to the impact of cattle.

Vegetation, wildlife and cultural resources sections have been updated and expanded based on the EIR sections.

The other sections of this report are primarily entirely new information.

*Resource Management Plan for Lynch Canyon Open Space Preserve*, prepared in 1999 by Resource Management International, Inc. contains useful information about the site due to the site's adjacency and similarity to the Lynch Canyon Preserve.

### Summary of Part One Conclusions

Table A-1 presents the conclusions of the site assessment, organized by subjects consistent with the report. Overall, the site is an open space gem, with unique resources for all three major purposes envisioned for the property: natural resource protection, agricultural production and public recreation. In each case there are some significant needs to realize the full potential of the resource and to ensure that the three purposes are compatible. With planning and commitment, these goals appear to be achievable. The most significant issues identified during phase one include:

- Need and opportunity for restoration of grassland resources;
- Need for protection and restoration of riparian areas and tributary drainages;

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- Need for protection of endangered plants and rare habitat in Serpentine bunchgrass area;
- Need for protection of nesting sites for endangered eagles and potentially red legged frog habitat;
- Need and opportunity for coordination of use and management with the adjacent Lynch Canyon Open Space Preserve;
- Need for resolution of access route(s) and physical improvements for public access

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
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**Table A-1: Opportunities, Needs and Constraints Summary**

<b>General Environment</b>		
<b>Issue or Condition</b>	<b>Significance</b>	<b>Related Text</b>
Site is part of a region designated for agricultural and open space protection in two counties; backs up to Solano County Lynch Canyon Open Space Preserve	Protection and enhancement of the site supports important environmental and planning objectives on local, regional and state-wide bases.	Pages 1-3, 1-16
Site is on designated route of Bay Area Ridge Trail, and potential east-west regional trails; Lynch Canyon is being improved for docent-led access in spring 2001	Trail development has regional importance and potential funding opportunities.	Pages 1-16, 1-39 Fig. 7 Appendix E
Dynamic climate caused by location on ridge between Bay and Central Valley creates wind, fog conditions that support biological diversity	Helps shape unique site resources. A constraint to use at some times, but also adds to variety of experiences, illustrates regional weather dynamics.	Page 1-3 Fig. 1
Close proximity to urban areas, diverse habitats, existing road/trail system, stunning views, picturesque rock outcroppings and wind-sculpted trees.	The site offers fine opportunities for public enjoyment and appreciation of nature, and is likely to ultimately be very popular, putting pressure on resources and managers.	Pages 1-4, 1-16 Fig. 5,6

**Ownership and Easements**

<b>Issue or Condition</b>	<b>Significance</b>	<b>Related Text</b>
Location of property boundaries, fencing	Precise location of site boundaries not located in field, no fence on e. or w. property line, other boundary fences not necessarily on property line.	Pages 1-14, 1-44 Fig. 4, 7
Conservation easement to the Land Trust of Napa County	Uses on the property shall not significantly impair or interfere with Conservation Values; CVs shall be preserved and protected in perpetuity. Allows 50 car parking, sanitary facilities, primitive camping, equestrian facilities up to 2 acres, caretaker residence up to 2,000 s.f.	Page 1-14, Appendix A

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
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**Ownership and Easements (continued)**

<b>Issue or Condition</b>	<b>Significance</b>	<b>Related Text</b>
Public access to the site	Current access is a private road. Need to resolve arrangements for ongoing use, improvement and maintenance with other property owners.	Pages 1-16, 1-17, 1-37 Fig. 5, 6, 8, 9
Other's rights on the site: There are recorded water, access and utility easements, may be unrecorded rights of access based on long-term practice	Easements and rights need to be confirmed and accommodated in future planning and management.	Pages 1-14, 1-15 Fig. 3
PG&E electrical transmission easement and line	PG&E regularly uses at least parts of road system, doesn't actively maintain or contribute. PG&E projects sometimes impact habitat or public use.	Page 1-14 Fig. 3, 7
Frog mitigation area	Right is retained to do mitigation project on "dog leg" portion of site for off-site project impacts on frog. Potentially may be proposal to use other portions of site for this purpose	Pages 1-14, 1-15 Fig. 4 Appendix B

**Current Land Use**

<b>Issue or Condition</b>	<b>Significance</b>	<b>Related Text</b>
Grazing lease status: Grazed for approximately 50 years by Azevedo family, part of a ranching unit including Lynch Canyon, adjacent Azevedo land. Resource management/grazing plan prepared for Lynch but not yet put into effect in lease.	New grazing lease needs to be arranged consistent with preserve use and management, coordinated with Lynch Canyon lease arrangements. Ongoing grazing use requires careful planning, design and management of recreational uses.	Page 1-16, Fig. 3
Lynch Canyon use and plans: Solano County Farmlands & Open Space Foundation has \$236,000 grant for trail development, and environmental programs through Bay Area Ridge Trail Council. Includes trails connecting to and on Newell.	Need to coordinate on trail construction, use designations and management.	Pages 1-16, 1-39 Fig. 7 Appendix E

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
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**Land Use Plans and Jurisdiction**

<b>Issue or Condition</b>	<b>Significance</b>	<b>Related Text</b>
Agriculture, Watershed and Open Space designation in Napa County General Plan	Consistent with open space preserve use. County Measure J requires voter approval to change; constrains potential land use of adjacent areas to west, north and south.	Pages 1-16, 1-17
American Canyon General Plan – Flosden and Eucalyptus Road extensions and Town Center plans	Provides for future development of public railroad crossing, road and path connections to site.	Pages 1-17, 1-37, Fig. 8
City-owned land outside city limits	State law and legal precedent allows City to use and improve site without being subject to County General Plan, zoning or permitting process (but may be subject on the current access road).	Page 1-17

**Vegetation**

<b>Issue or Condition</b>	<b>Significance</b>	<b>Related Text</b>
80% of site is grassland which has been heavily grazed, invaded by exotic species, especially yellowstar thistle	Current grassland condition detracts from quality of grazing, habitat and aesthetics/experience for users.	Page 1-23 Fig. 7 Appendix C
Great diversity, including many native perennial grass and forb species remains on site, including federally-listed Tiburon paintbrush	Opportunity for remnant species to be re-invigorated through grazing/grassland management.	Pages 1-24 – 1-27
Significant areas of riparian and oak woodland, some seasonal wetlands; support diverse and unique plants. Riparian and wetland vegetation has been impacted by cattle in many locations.	Support unique and potentially threatened species, can be improved and protected through grazing management.	Pages 1-24, 1-25 Fig. 7 Appendix C

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
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**Wildlife**

<b>Issue or Condition</b>	<b>Significance</b>	<b>Related Text</b>
Site supports large deer population and likely many other native species, potentially federally listed endangered red-legged frog	Important to regional biological diversity and health, and a positive feature for preserve users and supporters.	Pages 1-22 – 1-26; 1-28 Appendix D
Non-native Red fox observed on site	potential threat to native animals and birds	Page 1-24
Site is noted for hosting diverse bird species; populations of raptors, including federally listed golden eagles	Indicates importance and quality of site as part of regional habitat. May require monitoring and potential control of public access during critical breeding periods	Pages 1-27, 1-28 Appendix D

**Cultural Resources**

<b>Issue or Condition</b>	<b>Significance</b>	<b>Related Text</b>
Native American use sites identified	Need to preserve sites and features. Opportunity to study and expand knowledge. Provides a sense of history and relationship to environment for current park users.	Page 1-30
Early history of site known	Provides opportunity for cultural history interpretation and education, sense of connection for local residents and park users.	Page 1-31
Old barn remains on site	Picturesque, a potential focal point for Preserve activities, environmental education center, storage.	Pages 1-31, 1-44 Fig. 10

**Geology, Soils and Hydrology**

<b>Issue or Condition</b>	<b>Significance</b>	<b>Related Text</b>
Rugged topography reflects local folding, faulting and uplift – steep slopes subject to slumps and slides.	Requires careful planning and management of uses to avoid problems. Provides interesting view, environments, hikes, illustration of earth resources and processes.	Pages 1-33, 1-34 Fig. 7

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS**

**Geology, Soils and Hydrology (continued)**

Issue or Condition	Significance	Related Text
Clay loam soils are potentially highly productive, exhibit compaction, erosion, especially gullyng in drainages	Requires careful design of roads and related drainage, needs to be taken into account in grazing management plans, may limit use of roads and trails in wet conditions.	Pages 1-34, 1-35
Creek channels down cut, entrenched cascading areas, banks eroding, de-vegetated	Reduces habitat quality on site and potentially downstream. Can impact roads and drainage facilities. Requires attention in grazing management plans.	Pages 1-35, 1-36 Fig. 7
Perennial water available at springs and creek bottoms, plus seasonal seeps, pools, some already developed for cattle water	Related to diversity and quality of vegetation. Aids development of alternative water sources for cattle to reduce impact on creeks.	Page 1-36 Fig. 7 Road Inventory and Assessment

**Access and Circulation**

Issue or Condition	Significance	Related Text
Access is via private road crossing railroad switchyard, road is narrow and in poor condition; unimproved beyond Newell driveway	Significant road and related fencing and drainage improvements required for full public access.	Pages 1-37, 1-38 Fig. 8, 9 Road Inventory and Assessment
3.36 mile system of internal ranch roads generally in good condition, but with site-specific problem areas (identified in Road Inventory and Assessment); some too steep or poorly located for use as trails	Provide good ready-made trail system, patrol and maintenance vehicle access with site specific-repairs and improvements.	Pages 1-38, 1-39 Fig. 7 Road Inventory and Assessment
Network of cattle trails throughout property	May tend to encourage development of unauthorized trails	Page 1-39

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS**

**Facilities and Infrastructure**

Issue or Condition	Significance	Related Text
Relatively level area of approximately 2 acres near preserve entrance	Provides opportunity to accommodate visitor parking, caretaker, picnic sites; primary staging and activity center for Preserve	Pages 1-44, 1-45 Fig. 10
Barn structure is deteriorated but could be improved for interpretive/storage purposes	Need to design and implement improvements to preserve structure and accommodate public use.	Pages 1-44, 1-45
No bridge crossing of creek remains	Need to provide vehicular bridge and trail crossing.	Page 1-44 Fig. 10
No sanitary sewers available	Need to develop septic system for permanent use, potentially pit toilets and/or portables for visitors.	Page 1-45
Raw and potable water lines located within 1500 feet of potential improvement area	Allows extension for on-site water supply for public, caretaker, fire fighting, and potentially cattle.	Page 1-45 Fig. 8, 10
Electrical and phone lines located within 1500 feet of potential improvement area	Allows extension of service for public and caretaker.	Page 1-45 Fig. 8, 10
Fences and gates are in marginal condition at property boundaries, mostly disappearing on cross-fence lines; no fencing on boundary with Lynch or retained private Newell property.	Need to improve or install in coordination with grazing management plan, design fences, gates and stiles to work with public access plan.	Pages 1-37, 1-38 Fig. 7 Road Inventory and Assessment

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
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**Section B: Land Ownership, Use and Designations**

**Land Ownership and Easements**

Approximate boundaries, adjacent parcels, and easements on the site are noted on Figure 3. Figure 4 is the recorded parcel map of the Preserve (Parcel Two), including the associated frog mitigation portion. While calculated for the parcel map, property boundaries have not been located in the field. The east and west boundaries are not fenced, and portions of the north and south boundary fencing diverge from the apparent property lines. Fee title to the Preserve is held by the City of American Canyon, while a conservation easement (see Appendix A) is held by the Napa County Land Trust over the entire property. The easement gives the Trust the right to enter and monitor the property to determine compliance with protection of conservation values. The easement allows uses typical to an agricultural and open space preserve, including development of a paved parking area for up to 50 cars, an equestrian center of up to two acres, and a caretaker's residence of up to 2,000 square feet.

A major PG&E electrical transmission line and easement bisects the site, as does a 25 foot wide road easement following the existing east-west running main road (see Figure 3). The western portion of the site is subject to an aviation and hazard easement to Napa County.

**Red-Legged Frog Mitigation Area**

When the Newell Preserve property was deeded to the City of American Canyon the right was retained by Jack and Bernice Newell to allow use of a portion of the property for habitat mitigation area for the federally-listed threatened California red-legged frog. Though related to wildlife habitat, the mitigation area is discussed in this section because it is a private property right held on the Preserve land, and its use is based on off-site habitat issues. The mitigation area is delineated on Figure 4. Two nearby proposed residential development projects, Creekside Homes by Young California Homes L.P. and Village Green Homes by Hoffman Land Development Company, will have impacts on existing red-legged frog habitat. The developers are proposing to construct habitat mitigation on the Newell Preserve, through an arrangement with Jack and Bernice Newell.

The U.S. Fish and Wildlife Service (USFWS) has the responsibility for protection of the frog, including determination of the extent of potential impact and the necessary mitigation area and conditions, as part of an overall permit for work in federal wetlands areas issued by the U.S. Army Corps of

## NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

Engineers (COE). In a letter to COE dated September 15, 2000 (see Appendix B), USFWS informed the development companies that 1.96 and 2.22 acres of respective habitat mitigation area, or 4.14 acres total, would be required on the Newell Preserve property in order to mitigate for the impacts on frog habitat on the development sites.

At a meeting with representatives of the City of American Canyon, the Napa County Land Trust and USFWS on November 16, 2000, the developers' representatives showed preliminary plans for shallow seasonal wetland ponds to be created in the frog mitigation area on either side of the existing creek. The preliminary plan did not provide all the direct habitat area required by USFWS, though it appeared that the entire requirement could be achieved. A more significant issue arose related to the buffer area required by USFWS around the mitigation areas, which is to be a 600 foot wide by 3000 foot long zone centered on the mitigation area. The buffer zone is to be fenced and no land use or disturbance is to be allowed within the zone.

The proposed buffer zone is incompatible with the potential use and improvement of the preserve because it would extend from the mitigation area well beyond the barn and entry area, which is anticipated to be the most intensely used and improved portion of the entire preserve. This condition is not a part of the mitigation rights retained on the property. In any case, establishing and protecting this buffer zone would require the developers to secure property rights on large strips of private land on either side of the existing mitigation area. Because of these constraints there does not appear to be a feasible current proposal to use the frog mitigation area.

The potential was discussed at the November 16 meeting for using other portions of the preserve, for example areas near the confluence of the main and south canyon streams, for additional or alternative frog habitat. Issues related to this concept are the direct impacts of constructing the shallow ponds, which are likely to be minor, and more significantly, the ability to provide a fenced buffer around the ponds that is satisfactory to the USFWS and does not unduly interfere with public access or grazing operations. Finally, there will be the issue of the property value of the right to create and maintain the mitigation area, which has a relationship to the value the developers would be able to realize on their site, and the cost of obtaining an alternative site. The developers were encouraged to raise such proposals soon if they anticipated doing so, so they could be considered in the context of the preserve management plan. As of this writing no such proposals have been received.

## NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

### Land Use

The site and all the adjacent lands are used for cattle grazing, although there is some vineyard development on the western portion of the parcel to the north owned by Jaeger Vineyards. The site has been leased by the Newell's to Ron and Ralph Azevedo for cattle grazing for approximately 20 years, and the Azevedos have grazed the property for over 50 years total. Jack Newell collected monthly rent on the annual grazing lease. Lease payments are now made bi-annually to the City of American Canyon.

The Azevedos, early settlers and major property owners and ranchers in the region, also lease the adjacent Lynch Canyon Open Space Preserve in Solano County, which is owned by the Solano County Farmlands and Open Space Foundation. The Lynch Canyon Preserve is being planned and improved for limited public access through a grant from the Bay Area Ridge Trail Council, as discussed further in Section G. Beyond cattle grazing and limited public trail use, the only current use adjacent to the site is a residence owned by the Newell's, which is located in the center of Parcel One approximately ¼ mile to the west of the Preserve, and shares the access road.

### Land Use Designations and Jurisdictions

The site is designated as "Agricultural, Watershed and Open Space" in the Land Use Element of the Napa County General Plan. It is zoned "Agricultural Watershed" with an Airport Compatibility overlay on the western portion. Adjacent lands to the north, west and south have the same designation. Adjacent lands to the east are designated as "Extensive Agriculture" (generally grazing lands) in the Solano County General Plan Land Use Element.

The site is within the City of American Canyon Sphere of Influence, as indicated on the City's General Plan Land Use Map (see Figure 5). The City General Plan includes the entire western portion of the site within the proposed urban limit line, but the majority of that portion is designated as "Agriculture". The "dog leg" portion of the site set aside as potential red-legged frog mitigation area, and lands to the south and west, including the remaining Newell property up to the future Flosden Road alignment, are designated as "Residential Estate". Beyond the proposed Flosden Road Extension is the planned Town Center, which is to feature higher density office, commercial and housing at the Eucalyptus Drive extension (see areas M and N on Figure 6), and high to low-density housing to the north and south (areas A and A). The remaining Newell property west of the Preserve (area

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F), is designated as a “Regional Park Gateway”, with low-density and residential estate uses.

Passage of Napa County Measure J some years ago imposed the requirement for approval of County voters to change any land designated as agricultural or watershed in the County General Plan to an urban designation. The Napa County Local Agency Formation Commission (LAFCO) has approved a Sphere of Influence amendment by the City of American Canyon which allows urban uses up to the future alignment of Flosden Road. Areas to the east of Flosden are subject to the requirements of Measure J. Development of areas M and N and the associated Eucalyptus Drive Extension crossing of the railroad is not subject to any County requirements because these areas are already within the City limits.

Even though it is outside the city limits, because the Preserve site is owned by the City of American Canyon, the City may use and improve the property, subject to the conditions of the conservation easement, without obtaining permits or approvals from Napa County, which would otherwise have jurisdiction over the site (under authority of Government Code Section 53090 et. seq., and *Lawler vs. City of Redding*, 9 Cal. Rptr.2d 392 (1992)).

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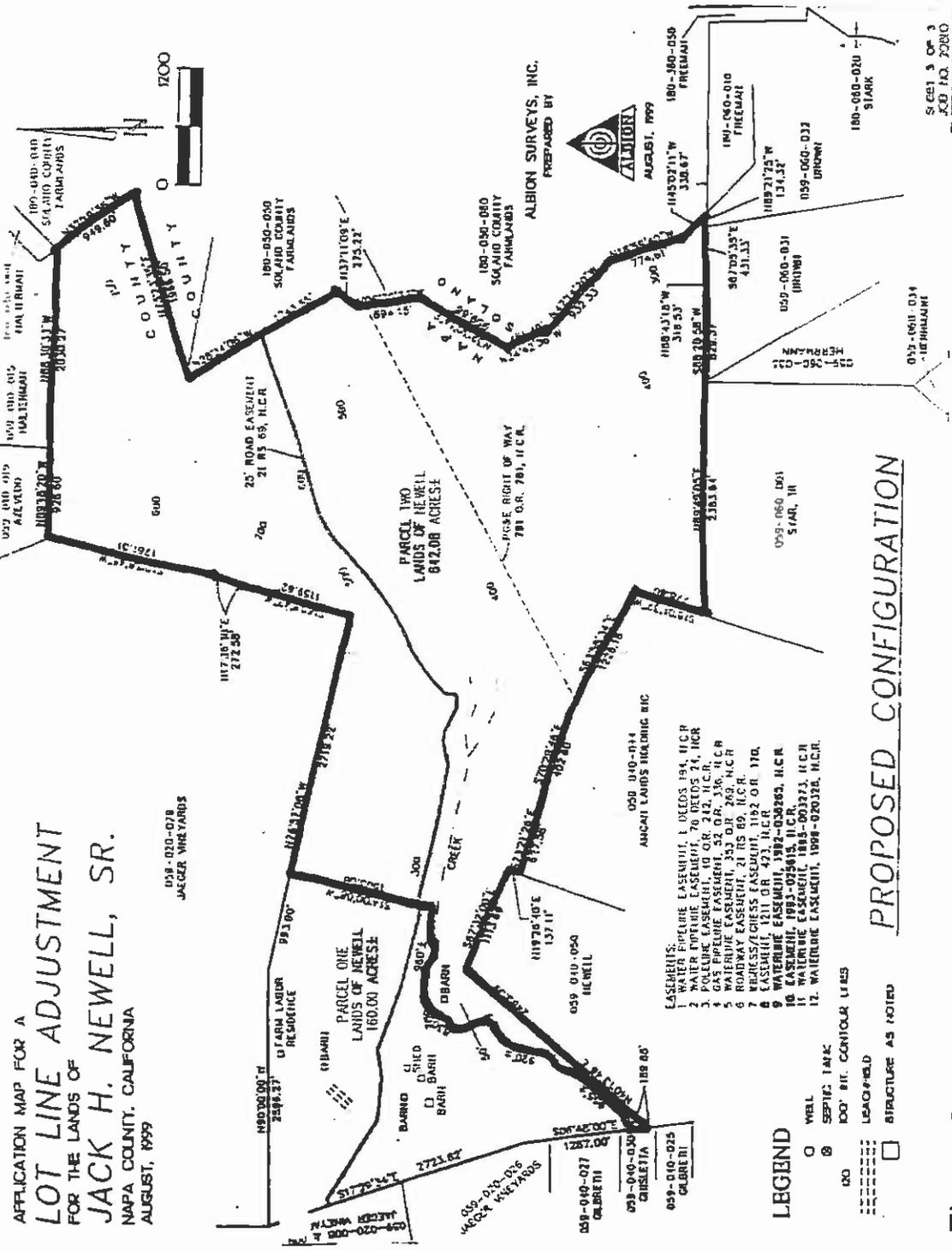


Figure 3  
Lot Line Adjustment Map  
(not the final property configuration - see Figure 4)

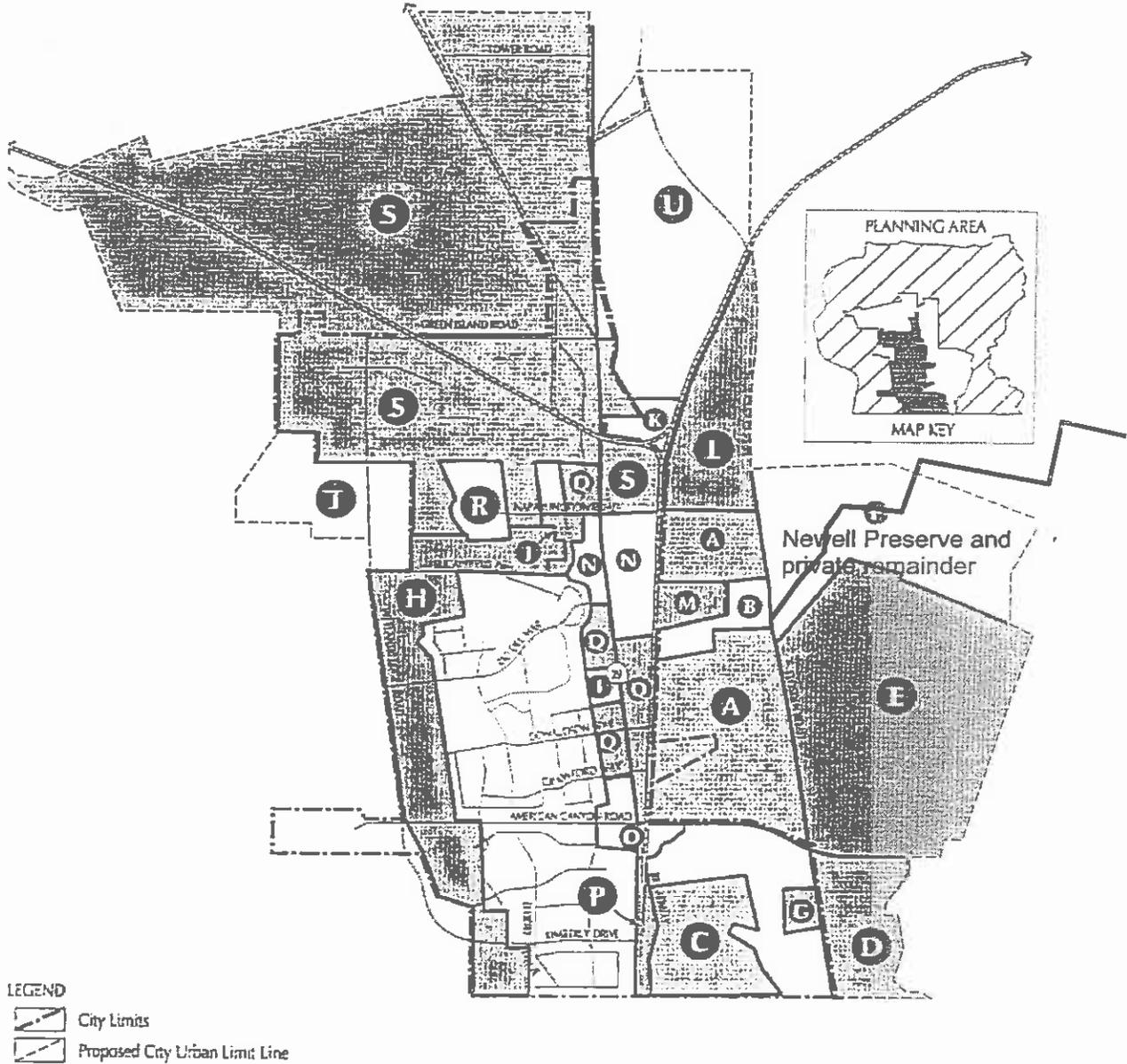
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*American Canyon*  
GENERAL PLAN



PLANNING SUB AREA MAP

Figure 6  
General Plan Land Use Subareas

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BRUCE RANDOLPH ANDERSON & ASSOCIATES

NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

Section C: Vegetation and Wildlife

Newell Open Space Preserve has several qualities that make it very attractive to a rich collection of flora and fauna. It is geographically located in the region between the coast range and the Central Valley and has a mix of both interior and coast vegetation. The Preserve is mostly non-native grassland resulting from early farming for wheat and long-term use for cattle grazing. There are pockets of oak-bay woodlands as well as eucalyptus trees.

Water is a critical habitat element for wildlife and is used for drinking, hydration and breeding. The preserve has water in the creeks and at numerous springs and seeps. Water appears to be present throughout much of the year in sections of the creeks. Saturated soils and standing water are also sometimes present at the hillside springs and seeps. Nearby Napa Marsh and Suisun Marsh are also attractive and accessible bodies of water for birds.

Botanical surveys conducted in 1988 as part of the proposed American Canyon Landfill Replacement Plan identified six plant communities existing on the property. Further surveys conducted in spring 2001 served to refine and bring community descriptions up to date and to complete the inventory of plant species for the entire property. The general plant communities shown in Figure 4.5-1 of the *American Canyon Replacement Landfill Draft EIR* (EIP Associates, 1989) have been shown on Figure 7 in this report, along with new information providing greater detail of sensitive botanical resources. Labels applied to the communities are retained from the EIP document with the attachment of more recent classification (A Manual of California Vegetation (Sawyer and Keeler-Wolf, 1995) included in parentheses. This was done because descriptions in the later document have "lumped" communities in broad series, which would lead to the loss of detail in the descriptions included here. A complete list of vascular plant species encountered during 1988 and 2001 surveys to date can be found in Appendix C.

A description of wildlife species and habitat is integrated into the plant communities to provide greater clarity in habitat management. The site was assessed by a wildlife biologist in 1988 for the Landfill EIR document. Table 4.6-1 on page 4-88 of the EIR indicates rare, endangered or threatened wildlife species known to occur in the project region. The federally-listed threatened California red-legged frog is one wildlife species that should be added to the list, based on identification on nearby sites, as detailed in Appendix B of the current report. A list of common, potential and observed wildlife species can be found in Appendix C-1 of the Landfill EIR, which is reproduced in this report in Appendix D, which also includes a list of observed bird species compiled by the Audubon Society. A more detailed

## NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

description of observed nesting sites and updated list of observed bird species is included, based on information from the Audubon Society.

### Non-Native Grassland (California Annual Grassland Series)

Physical characteristics of the soils on the site, coupled with local weather patterns support a landscape dominated by grassland. Over 80% of the park is covered by grassland. Historically, this was probably a native grassland community (similar to Coastal Bald Hills Prairie) dominated by purple-needlegrass, California oatgrass, creeping rye and blue-eyed grass. The clay soil (Fagan Clay Loam, slow permeability) tends to inhibit tree and shrub growth due to high plasticity. This soil remains saturated for prolonged periods between fall and mid-spring and then cracks under summer drought conditions. This is problematic for the roots of most woody species. However, prior to Spanish colonization in the 1830's, this area may have supported some scattered individual trees or small groves along seasonal drainages. The presence of Indian grinding stones on the Lynch Canyon property, situated distant from oak trees, suggests more extensive woodlands in the past. Regular burning by Native Americans could also have suppressed recruitment of young trees and shrubs. This could also have been the net effect of perennial grazing by cattle as occurs to date. Aging trees could have died, not to be replaced by young recruits. Grazing has helped to give a competitive edge to a number of exotic grasses and forbs, which now dominate the site.

Early season dominant species include wild oats, ripgut grass, winter vetch and redstem filaree. Late in spring the grassland becomes dominated by yellow star thistle and purple star thistle, both extremely aggressive species from the Mediterranean region. Star thistle is unpalatable to cattle after the formation of spines on the flower heads in mid-May. Another Cal EPA listed noxious species, cardoon could pose a serious threat to native vegetation if not controlled. Three other invasive exotics, wild anise, teasel and horehound also occur in localized populations. Other associated species that are common in this community include: Italian thistle, milk thistle, cut-leaved geranium, wild barley and soft cheat. The only native species that retain a strong foothold are erect evax, succulent lupine and common fiddleneck. This community may have historically supported showy Indian clover (*Trifolium amoenum*), which was collected near Napa Junction (American Canyon) in 1891. This Rare and Endangered species (CNPS List 1B) prefers rich grassy swales such as may have existed near the lower, flat area near the mouth of the canyon.

These grasslands support a host of dependant avian species such as meadowlark, say's phoebe, northern shrike, horned lark, savannah sparrow

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and killdeer. The horned lark is on the Department of Fish and Game Special Concern list. White tailed kite, northern harrier and golden eagles, all special status species, may utilize this habitat as they prey on small mammals. Eagles are regularly seen in the area and nest within the region. Several mammal species utilize this habitat including pocket gophers, ground squirrels, field mice, blacktail jackrabbit, coyote and mule deer. The open grassland may also provide excellent habitat for western rattlesnake, gopher snake and western terrestrial garter snake. The non-native Red fox has been observed on the site, which may have an adverse impact on native animals, especially on ground nesting birds.

**Central Coast Riparian Forest (Coast Live Oak Series)**

This is a linearly arranged plant community dependant on the conditions afforded by the stream bank and perennial water. It is nearly continuous along the southern branch of Newell Creek but is fragmented along the northern branch and in the southwest part of the park. This community covers approximately 14.5 acres. Arroyo willow and shining willow are dominant species along the south branch with California bay and coast live oak common especially along the upper reach. In this reach the canopy cover is 100% with trees from 50 to over 75 ft in height. There is little or no understory, which is due to the strong inhibitive properties of bay tree litter. This is also exacerbated by cattle grazing and trampling. Where the riparian community contacts the Coast Live Oak Forest (middle reach), the willows form an outside band and the live oak/bay component blends into the adjacent forest canopy. Through the lower reach of the stream the distinction becomes more obvious with a clear dominance by the shining and arroyo willows. In the understory and between breaks in the canopy there are thickets of California blackberry, poison oak, Santa Barbara sedge and alkali rye. Other common associated species include, common snowberry, California rose, Douglas's mugwort, California figwort and hoary nettle. The adjacent grassland along the lower reach remains saturated under normal winter conditions and has become densely invaded by fuller's teasel. One special status species Victor's gooseberry (*Ribes victoris*) occurs in the upper reach of this community, represented by 8 individuals in three locations. This species is on the watch list of the California Native Plant Society and accorded some protection under CEQA.

Many birds such as, Nuttall's woodpecker, northern flicker, black phoebe, spotted towhee, scrub jay, golden crowned sparrow, song sparrow, and yellow-rumped warbler frequently utilize the riparian community. These isolated strands of woody vegetation are vitally important during spring and fall migration to many species including the special status yellow warbler. This is also habitat for raccoon, skunk, coyote, weasel, and ornate shrew.

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The resident amphibians and reptiles may include pacific tree frog, garter snake, ring-necked snake, slender salamander and alligator lizard. Western pond turtle, a special status species, is likely to occur along the lower reaches of the streams. The lower reach of Newell Creek has been designated as a potential habitat mitigation area for the federally-protected red-legged frog.

### Coast Live Oak Forest (Coast Live Oak Series)

Conditions on one north-facing slope favor a forest dominated by coast live oak. The soil here is coarser (Millsholm loam, moderate permeability) than that found in the grassland communities. Less sun exposure on north faces lead to the retention of moisture for a longer period of time, effectively extending the growing season. This community covers about 40-45 acres on steep to moderate slopes. Tree cover is greater than 75 % with a number of openings present, especially near the outer edges. Common associated trees include California bay (35%), madrone (5-10%) and black oak (1%), Species such as poison oak, hazelnut, common snowberry, Torrey's melica and California wood fern are common in the brushy understory. This is the most diverse community in the preserve including 78 of the 225 taxa identified on site. No special status plant species were found here but striped coral root (*Corallorhiza striata*), which occurs here in low numbers, is considered rare in Napa County (Napa Valley Chapter, CNPS records).

The dense cover afforded by trees and brush provide habitat for bird species such as great horned owl, pacific slope flycatcher, northern flicker, chestnut-backed chickadee, Steller's jay, and California towhee. A number of mammals may use this habitat including big-brown bat, hoary bat, pallid bat, dusky-footed woodrat, Audubon's cottontail and gray fox. The bat species are species of special concern utilizing tunnels and hollows in trees for roosts. Resident reptiles and amphibians may include tiger salamander, rough-skinned newt, ensatina, pacific treefrog, southern alligator lizard and common kingsnake. A number of special status bird species may utilize this habitat include Cooper's hawk, golden eagle, sharp-shinned hawk, and prairie falcon.

### Bald Hills Prairie (Purple Needlegrass Series)

This community shows elements of both interior and coastal grassland communities. The regular influence of coast fog during the summer months and the presence of blue flag (*Festuca idahoensis*) and California oatgrass (*Danthonia californica ssp. californica*) indicate that this is a variation of the Bald Hills Prairie community. This is a remnant of the vegetation community that is likely to have dominated the property historically and is

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now confined to the steeper slopes near the eastern and southern boundaries of the site, approximately following the footprint of the Kreyenhagen Formation as mapped on Fig. 4.1-1 of the 1988 Landfill report. Common species here include purple needlegrass, blue eyed grass, California buttercup, Indian soap and wild oats. The ridge line includes a discontinuous strand of sandstone outcrops that supports elements of coastal scrub. A number of picturesque wind-sculpted coast live oak and California bay crown the ridge top. The rocks comprised of Domengine Sandstone also support a locally unique assemblage of shrubs and perennials including hairy golden aster, California mahonia, rock-loving daisy, California Indian pink and California Acaena. The Newell preserve may support as much as 90% of this plant association type occurrence in Napa County. This community also includes (nine) patches California balsamroot (*Balsamorhiza macrolepis* ssp. *macrolepis*) in the preserve which is listed as a rare and endangered plant by CNPS (List 1B). This member of the sunflower family is confined to the bay area region and protected under CEQA.

This community provides habitat for bird and wildlife species comparable to the Non-native Grassland Community with addition of brushy habitat and rock outcrops, which may support a few additional species. This habitat may be utilized by a number of special status species including northern harrier, rough-legged hawk, golden eagle and ferruginous hawk. Bald eagle and peregrine falcon are rare visitors to this community.

This ridge top offers outstanding scenic opportunities for park visitors including views of Mt. Tamalpais, Mt. Diablo, Mt. St. Helena, Snow Mountain and the Sierra Nevada. Siting of trails including Bay Area Ridge Trail should seek to provide the best hiking experience without impacting biologic values. Rare plant habitat should be avoided by placement of trails a minimum of 25 ft from populations of California balsamroot. Other plants including hairy golden aster and California Acaena are not protected by CEQA but are known to be rare in Napa County. These should likewise be protected from trampling and overgrazing

### **Serpentine Bunchgrass ( Foothill Needlegrass Series)**

A small portion of the property, along the southern boundary, supports a grassland community influenced by the difficult growing conditions exacted by serpentine substrate (Ultramafic rock meaning high levels of magnesium and iron). This small area of about 12 acres is part of a community covering more extensive acreage to the south in American Canyon. Serpentine soils tend to exclude many exotic species depending on the severity of the Calcium/Magnesium ratio (0.40 measured in American Canyon, K. Martin, 1987). The dominant species are native annual and perennial species

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including California poppy, hayfield tarweed and purple needlegrass. Other common associates include naked-stem buckwheat, small-flowered needlegrass, soft cheat and erect evax. Most noteworthy in this community is the presence of Tiburon paintbrush (*Castilleja affinis ssp. neglecta*), which is a federally listed endangered species. The property supports approximately 5-10 % of the Napa County population of this species (35 plants, March 2001).

This community provides similar wildlife habitat to that described above under Bald Hills Prairie and Non-native Grassland. The area may provide habitat for burrowing owls and higher density of reptiles among the rocky slopes.

### Wetlands (Spikerush Series)

The dense clay-loam soils and rock substrate of the preserve give rise to a number of seasonal and perennial seeps and springs where the groundwater intercepts the soil surface. In addition to six seep areas and two springs present on the site, the bottom of several stream channels, where exposed to full light, support a similar assemblage of wetland species. A few seasonal ponds also occur on the preserve. Dominant species here include brown-headed rush, pacific bog rush, bristly ox-tongue, winter cress, clover and curly dock. Other common associated species include Baltic rush, Mexican rush, iris-leaved rush, bird's foot trefoil, American bulrush, and Mexican plantain. This last species is uncommon in Napa County.

This habitat provides water and forage to wildlife species and may provide critical habitat for the red-legged frog. These wetlands feed into the creek system, which exits the preserve through red-legged frog habitat. Cattle grazing has greatly influenced the biomass of wetland plants and altered composition of these areas by opening the habitat to non-native species.

### Bird Species Observations

The preserve provides a resting place for birds during migration in the spring, fall and sometimes winter. As a result, a number of the bird species observed on site, while not rare, are unusual for this location, including varied thrush (*Ixoreus naevius*), stellars jay (*Cyanocitta stelleri*), and merlin (*Falco columbarius*), one of the more rare falcons. During the winter, long eared owls use the Preserve's dense grove for refuge during the day. (Mike Rippey, personal communication)

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This setting is especially attractive to raptors due to the height of the hills, the location between the coast and Central Valley, the distance from human disturbance and the persistent, strong off-shore westerly winds from spring to fall. As the winds meet the hills a wind inversion takes place, providing favorable soaring conditions.

The existing habitats probably provide for occasional use by such protected bird species as the bald eagle (*Haliaeetus leucocephalus*), peregrine falcon (*Falco peregrinus*) and possibly other raptors. Several bird species of special concern to the Department of Fish and Game could be expected to occur on or near the property. Bird counts by the Solano and Napa County Audubon Society Chapters document the use of the area by prairie falcons (*Falco mexicanus*), white-tailed kite and sharp-shinned hawks (*Accipter striatus*) hawks, which are both Species of Special Concern in California. A northern harrier (*Circus cyaneus*), a Species of Special Concern Priority #2, was observed during the wildlife survey for this report. Habitat suitable for nesting is available on site for several of these species, as indicated in Table 4.6-1 of the 1989 EIR.

Golden eagles (*Aquila chrysaetos*) are considered to be fairly abundant in this area. The first recorded sightings of golden eagles here occurred in 1966. They are regularly observed foraging at adjacent Lynch Canyon. Golden eagles typically select nest sites on cliffs or in large trees near ridge tops. Eagles nest in alternate years and usually alternate between two or three nesting sites (Mike Rippey, personal communication).

There is a triangle of three golden eagle nesting sites or recently active nesting sites in the nearby area. While only one of the nesting sites is located in the Newell Preserve, the other sites are part of the same habitat complex. The characteristics of these sites that make them desirable nesting habitat include cluster of trees on steep hillsides surrounded by open land, distance from human activity, and water availability.

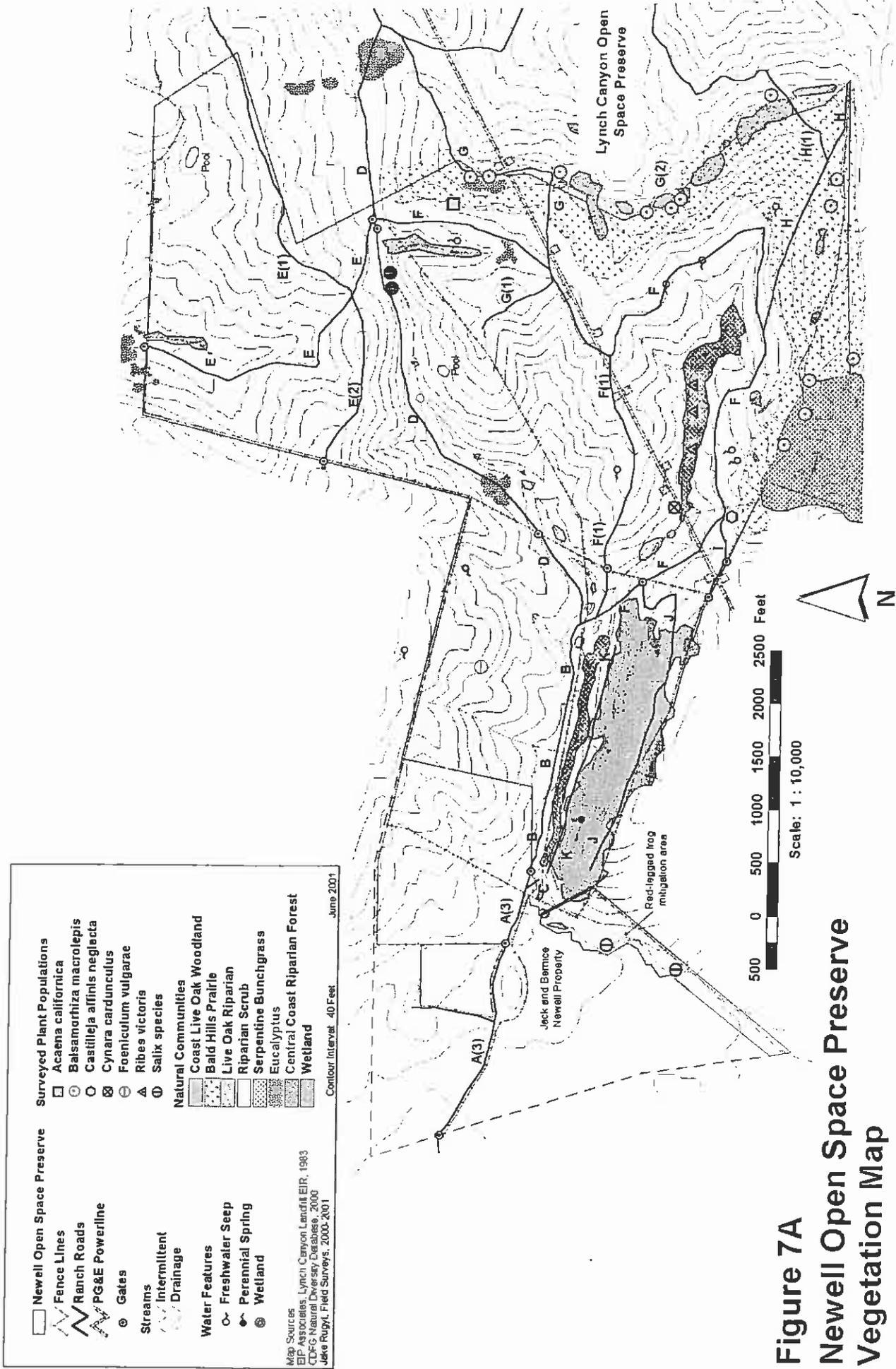
The protection of the nesting sites when in use by eagles is of primary concern in planning for use and management of the Newell Open Space Preserve. Golden eagles court from November to December and raise their young for approximately nine months from December through August. To avoid disturbing their nesting activities, it may be necessary to close the trail (segment D) that passes by active nesting sites and route visitors to and from the ridge via segment F or F(1).

In addition to protection under the Endangered Species Act and California rare, threatened, and endangered lists, two federal acts protect the eagles, one of which protects other migratory birds. The Bald and Golden Eagle Protection Act provides for the protection of the bald and golden eagle by

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prohibiting the take, possession, sale, purchase, barter, offer to sell, purchase or barter, transport, export or import, of any bald or golden eagle, alive or dead, including any part, nest, or egg, unless allowed by permit. The Migratory Bird Treaty Act prohibits the taking, killing, possession, transportation and importation of all migratory birds, their eggs, parts and nests except as authorized under a valid permit.





**Figure 7A**  
**Newell Open Space Preserve**  
**Vegetation Map**

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**Section D: Cultural Resources**

The natural beauty of the Newell Open Space preserve is evident immediately. There is a stately grandeur in the clear vistas of rolling hills, clusters of trees and creek vegetation. But there is also a fascinating history of people who have lived, worked, raised families and left the site.

In August 1988, the Cultural Resource Facility at Sonoma State University conducted a cultural resources field survey for the American Canyon Replacement Landfill EIR. According to that study, the Newell Open Space Preserve is part of an area once inhabited by Native American speakers of the Patwin language. Their territory extended approximately 90 miles from Suisun Bay north to Princeton, and about 40 miles west from the Sacramento River. Five village sites have been recorded within ten miles of the Preserve.

The Patwin maintained a diversified fishing, hunting and gathering economy based on the seasonal availability of food. They utilized two distinct settlement/subsistence patterns according to geographic location. During the winters, the valley peoples occupied permanent villages within the marshland and relocated to smaller tributaries on the surrounding plains during the summer. The upland groups wintered where streams exited into the valleys or at other favorable streamside locations. During the summer, they moved from these areas into the surrounding hills.

The upland Patwin would have inhabited the Newell Preserve area. Prehistoric sites in the preserve would likely be winter village sites characterized by middens with large amounts of shell and bone, specialized areas such as butchering stations and seed or acorn grinding areas. The archaeological survey of the preserve area of July 28, 1988 revealed two prehistoric archaeological sites. They have been recorded and designated as sites CA-NAP-751 and CA-NAP-752. (Refer to Appendix D of the EIR). These sites, taken together, could be unique archaeological resources.

Patwin life was rapidly disturbed following contact with Euro-Americans. Some people were removed from the Patwin villages by the Spanish missions, others succumbed to the malaria and smallpox epidemics of the 1830s. The few remaining Patwin were displaced with the American settlement of the area in the 1850s and 1860s.

Early explorers, missionaries and trappers to the area reported the existence of pronghorn antelope, mule deer, elk, bears, mountain lions and coyotes. Herds as great as 1,000-2,000 elk and 3,000 antelope were recorded. Elk, antelope, bears and mountain lions were eliminated soon after the Spanish and Americans first settled the area. Deer were heavily hunted but not eliminated.

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The demand for firewood throughout the region resulted in the harvest of the native cottonwoods and oaks. Land owners planted eucalyptus, an Australian import, as an alternative to the rapidly diminishing native wood supplies. Several stands of eucalyptus can still be seen at the Newell Preserve.

In 1864 Mary and Richard J. Falls moved to the Preserve area, which they then called the Falls Ranch. Richard James had acquired a bounty land certificate in New Orleans for the 40-acre parcel. The family grew wheat on the ranch and eventually owned approximately 170 acres. The family home was located in the clearing at the southwest entrance to the preserve, where the old barn is still standing. The children of Mary and Richard Falls continued to run the ranch until it was sold in 1900 to Charles Cantoni.

The Cantoni family had a dairy farm at the ranch. Several current residents of the area recall that the Cantonis had a lovely, white, old-fashioned, two-story house located in the same clearing as the Falls family house. A local resident also remembers going to the Cantoni ranch as a child to purchase butter and eggs and to pick flowers for the grade school May Day celebration. The Cantoni family leased out portions of the ranch at various times.

A portion of the preserve property was owned by the Scally family from about 1913 to 1964, then by Ted and Ruth Brown.

Jack and Bernice Newell purchased the ranch from the Cantonis and Browns in 1980. They leased it to neighbors Ralph and Ron Azevedo for cattle grazing. The ranch was sold to the Tricounty Development Company in 1985 and plans were made for using the site for a replacement landfill operation. When this project plan did not go forward, the Newell's repurchased the ranch in 1992. The Newell family gave the land to the City of American Canyon in 1999 for use as an open space preserve.

The collection and display of historic information and artifacts from the people who have lived in the area would greatly enrich visitors' experience and appreciation of the preserve. A visitors/education center on site provides an ideal environment for these materials. Information about the Patwin way of life, native flora and fauna, and early farming and ranching operations could all be included. Additional planning may be required to protect the Patwin winter settlement sites noted in the cultural resources field study conducted by Sonoma State University.

Information on past use of the site was obtained from local residents Catherine Bonato and Donna Reid Connell (granddaughters of former

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owners), Alma Negri and Mary Sanders. John Welker, Assistant Chief Title Officer for Napa Land Title Company, provided chain of title information.

**Conclusions**

The identified archaeological resources should be protected, and areas of any significant new use or improvements should be investigated for the potential presence of archaeological resources. The old barn, while not historically significant in its own right, offers a focal point and link to the historic use of the site, and could be useful as shelter and storage for site activities. Photos, documents, and stories of historical interest related to the site are available from local descendents of the original European settlers. These should be identified or collected and potentially used as part of interpretive exhibits at the barn.

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Section E: Geology, Soils and Hydrology

Geology

The Newell Open Space Preserve is located within the Coast Range, which extends from the Oregon border to Southern California. The site is located east of the Napa River flood plain and is comprised of two main canyons and two tributary canyons. For convenience, names have been assigned to the canyons and drainages. The *lower main canyon drainage and creek* refers to the westward-draining canyon, which divides eastwardly into two tributary canyons. The *south tributary creek* extends from the southeast portion of the site to the junction of the lower and upper main canyon creeks. The *upper main canyon tributary drainage and creek*, lies above the junction with the south tributary creek. On the northeast portion of the property, a second drainage basin drains to the north. This will be referred to as the *north canyon drainage and creek*. Site elevations range from about 125 feet above mean sea level (msl) to the western limit of the property to over 950 feet above msl at the southeastern corner of the site. (EMCON Associates, 1988).

EMCON Associates conducted a geologic and hydrogeologic analysis of the site in 1988. They recorded Quaternary (as old as two million years) alluvium and landslide deposits; Eocene Markley Sandstone and Nortonville Shale members of the Kreyenhagen Formation; Eocene Domingine Sandstone; and Cretaceous to Jurassic age bedrock units of the Great Valley Sequence and Franciscan Assemblage. (see figure 4.1-1 in the 1989 EIR document)

Alluvium occupies the drainage valleys of the main and tributary canyons. Alluvial deposits are eroded soils and bedrock debris laid down by running waters, rivers, or streams. Alluvium on the site consists predominantly of clay with minor layers of silty sand, sandy silt, and gravelly clay.

Bedrock formations: Markley Sandstone underlies most of the site. This formation consists of medium to thick bedded sandstone with interbeds of claystone, mudstone, and siltstone. The Markley Sandstone is moderately well cemented and slightly fractured with crushed to intensely fractured claystone and mudstone interbeds.

The eastern and southern margins of the property are underlain by the Nortonville Shale and Domingine Sandstone. The Nortonville Shale consists primarily of thinly bedded, intensely fractured claystone and mudstone with some sandstone and siltstone interbeds. The Domingine Sandstone consists of a hard, slightly to intensely fractured sandstone with numerous pebbly layers and some cobble and boulder conglomerate beds.

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Bedrock of the Franciscan Assemblage is exposed along the southern margin of the project site. This unit consists mostly of a highly altered basalt known as greenstone. This rock is slightly to moderately fractured and has been altered locally to an extremely hard silica carbonate rock.

Site Geologic Structure: Site geologic structure is dominated by broad, northwest to west-trending folds. Faulting is minor with a few relatively short faults that are thought to be caused by deformation associated with local folding. A 400-foot wide, west-to northwest-trending shear zone was mapped along the southern margin of the site. This shear zone separates the Cretaceous Franciscan rocks, to the south, from the Eocene rocks, to the north. It consists of a zone of mixed lithologies derived from adjacent in-place formations that were sheared and placed into fault contact with each other. EMCON Associates concluded that this fault zone had not been active for several years. No known active faults pass through the site. The closest active fault is the West Napa fault, which passes about one mile west of the project site. Other major San Francisco Bay faults which could generate groundshaking at the site include the Green Valley fault located about four miles northeast, the Rodgers Creek-Healdsburg fault and the San Andreas fault respectively located about 11 and 31 miles southwest (Jennings, 1975)

Numerous landslides of various sizes, ages, depths and states of activity have been mapped on the site (refer to Figure 4.1-2 in the 1989 EIR document). Specific recent and current slope movement and erosion affecting roads are noted in section G. These areas of instability should be considered when planning the placement of preserve roads, bridges, culverts and trails.

There are exposed Markely Sandstone rock faces above the eastern ridge of the site around an elevation of 900 feet. The outcroppings are scenic and may also attract rock climbers. An exploratory mining tunnel dug during World War II in a reported search for the mineral magnetite runs approximately 150 feet horizontally into a hillside located near the southern boundary of the property (Phillip Blake, NRCS, personal conversation). The mine may become a point of historic interest for preserve visitors but may also be a potential danger or magnet for undesirable activities for unsupervised visitors.

### Soils

The Soil Conservation Service (SCS, 1978) mapped the majority of the proposed landfill area as clay loam soils of the Fagan series (Figure 4.1-3). The Fagan clay loams (Fa, Fb, Fc) are slowly permeable soils with rapid runoff and a moderate to high erosion hazard. In the southwestern portion of the area, SCS mapped Millsholm loam on a steep north-facing hillside. The Millsholm loam (M) is a moderately permeable soil with very rapid

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runoff and a high erosion hazard. There is a small area of Hambright-Rock outcrop complex (HR) in the southern boundary of the preserve. This soil is moderately permeable with rapid to very rapid runoff and a high erosion hazard.

Problems were observed in many of the tributary drainages on the site in the form of "head cuts", or rotational slumps at the upper end of the draw, often leading to slope failures and gullying the length of the draw. These conditions are not directly caused by cattle activity, but may be indirectly caused by cattle through their removal or prevention of woody vegetation that would otherwise protect these drainages (Phillip Blake, NRCS, personal conversation).

The limited use of this site as an Open Space Preserve should not conflict with the soil characteristics of rapid runoff and moderate to high erosion hazard. Recommended management practices will include careful planning and execution of trail and road profiles, limiting off-trail access and ongoing monitoring and management of slope and runoff conditions.

### Hydrology

The site is located in a hilly area that separates the alluvial basins of the Napa Valley to the west, drained by the Napa River, from the smaller Green Valley to the east, drained by the Cordelia Slough. The hills are composed of sedimentary and metamorphic rocks with low permeability. They are considered insignificant as a groundwater reservoir resource because of their low permeability and because they are likely to contain trapped marine water (Thomasson, et. al., 1960).

The ridge line along the eastern boundary of the site is the drainage divide between the Napa Valley and Green Valley basins (Figure 4.2.1 of the 1989 EIR). Two stream drainages (basin subareas) have developed at the site. Both drain into the Napa Valley basin. The larger subarea, covering 85% of the site, contains the main canyon and the north and south canyons further east. The smaller subarea drains northward and originates north of the north canyon (refer to Figure 4.2-1 of the 1989 EIR). The site is located above the 100-year floodplain for the Napa River and is not subject to inundation. (FEMA, 1980).

Due to direct activity by cattle, and related reduction of protective woody vegetation and tree roots, many of the stream banks are exhibiting erosion and failure from the impact of stream flow. Many of the stream channels are deeply downcut, with entrenched cascades that are gradually eroding upstream and adding to stream siltation. Vegetation growing in the channel

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indicates that these conditions have been present for many years (Phillip Blake and Leonard Jolley, NRCS, personal communication).

Intensive groundwater testing was done for the landfill EIR. The U.S. Army Corps of Engineers derived an isohyetal map for the Napa River Basin from precipitation records gathered between 1906 and 1956, and from information provided by the Napa Flood Control and Water Conservation District. This map indicates average annual precipitation for the site to be between 16 and 20 inches. (Refer to Figure 4.2-2 of the 1989 EIR)

Groundwater levels at the site fluctuate throughout the year and are controlled principally by the amount of precipitation at the site during the winter rainy season. The levels are highest during the winter and spring months as infiltration from rainfall reaches the groundwater table in the bedrock and are lowest in late autumn prior to the rainy season. (EMCON, 1988). During these months, spring discharge increases and ephemeral springs and seeps develop at the bases of the landslide deposits. There are two perennial springs on site, which are interpreted as resulting from the intersection of the groundwater table with the ground surface. Ground at the perennial springs was saturated through the summer into the month of October. (refer to Figure 4.2-1 of the 1989 EIR) Groundwater levels and perennial spring discharge begin to decrease in the late spring. Additional short-lived ephemeral springs are known to occur at the base of the landslides during the winter and spring (EMCON, 1988.) Ephemeral spring discharges cease in the summer months as groundwater levels drop.

### Conclusions

The site's varied and unique geologic structure has led to a similarly unique assemblage of plants. Preservation of the geologic features goes hand in hand with protection of these plant communities.

The steep, unstable and erosion-prone slopes require careful placement and ongoing maintenance of roads, trails and any structures. Tributary drainages are experiencing slope failures and erosion that may be related to absence of woody vegetation, especially in wetter areas.

Creek banks along the main canyons are eroding due to the impact of cattle grazing and need to be protected and restored. In the future, creeks and springs should be protected from the impacts of cattle and trail users.

The existing roads and trails require improvement to address numerous instances of bank failures and gullyng. This subject is addressed in detail in Section F and the Road Inventory and Assessment.

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The rock outcroppings along the ridgeline may attract climbers, and the mine tunnel may attract explorers, especially children. Such use could become a nuisance or liability, and could impact adjacent sensitive resources.

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Section F: Access and Circulation

Site Access

There are three potential alternative routes for short-term access to the site (see Figure 8). All three alternatives involve crossing and making road improvements on land owned by Jaeger Vineyards and Jack and Bernice Newell:

- The current access via Napa Junction Road, which crosses through the switchyard of the California Northern Railroad at a private crossing.
- South Napa Junction Road, which crosses a single track at a private crossing approximately ½ mile south of Napa Junction Road and leads to an equipment storage area and an old quarry owned by Jaeger Vineyards.
- Watson Lane, which is a public road crossing of a single track approximately a half mile north of Napa Junction Road.

The Management Program, (Part Two of this Plan) and the Summary and Estimate in Part Three provide recommendations for general and site-specific improvements.

Current vehicular access to the site is from Highway 29 via Napa Junction Road. The current route is described in three segments:

Segment A(1), (see Photo F-1) is a paved, two-lane County-maintained public road approximately 1150 feet in length. Napa Junction Road serves several residences and businesses, including Lena's Tavern, a metal recycling facility, and the switchyard and engine house of the California Northern Railroad. It is controlled by a stop sign at Highway 29.

Segment A(2) (see Photo F-2) is a private road extending from end of Napa Junction Road to the Newell property line. The surface is a combination of rock and deteriorated pavement. Similarly-surfaced roads extend to the north and south serving adjacent businesses west of the railroad tracks. The access road extends through California Northern Railroad switching yard and across its main north-south line, crossing five tracks about 1260 feet beyond the end of Napa Junction Road. The crossing is offset to the south approximately 50' from alignment of Napa Junction Road. A "private railroad crossing" sign is the only control - no other fencing or signing exists to control access across the tracks or into adjacent areas. According to

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City of American Canyon staff the train speed limit on these tracks is 10 mph and trains run through the area approximately three times per week.

Beyond the railroad crossing is a cattle guard and a non-operational wood gate. The road extends about 1680 feet from this point through cultivated land owned by the Jaeger Vineyard Company. The road is single lane, with shallow ditches on both sides, and no fencing. The road has a surface of very deteriorated paving and base rock. The land and the road itself are low-lying and appear liable to poor drainage in wet weather. The road surface generally drains into the wheel tracks, which have settled from long use and inadequate subgrade. A dirt road crosses north-south just before the Newell property line. At this point the access road climbs in elevation slightly and the surface is in slightly better condition. This is the future alignment of Flosden Road, as indicated on the City of American Canyon General Plan Circulation Plan (see Figure 8). The Flosden Road extension, and planned extensions of east-west roads across the railroad at Eucalyptus Drive and Donaldson Way are important opportunities to provide public crossings of the railroad. Currently the nearest public crossing is at American Canyon Road, approximately 2700 feet to the south, where there is a signalized crossing with traffic arms. These road improvements are associated with the planned Town Center (see Section B, Land Use, Ownerships and Designations for more information). Flosden Road is planned as a four lane arterial, while Eucalyptus is planned as a two lane collector road. Both roads are planned to include bicycle and paths and/or sidewalks per the General Plan.

Segment A(3) (see Photo F-3) begins at the Newell property line, at a cattle guard and a chain link gate (typically open) in a cattle fence line. The fence is down on the north side. The road extends in a similar condition to A(2) approximately 1250 l.f. to a driveway turning off to the north to the residence. The former ranch homestead site and associated barn and storage building are located on the south side at this point. The driveway itself has more recent, but deteriorating, chip seal surface. The access road to the site, extending 750 l.f. east from this point to Gate G1 (see cover photo), is an unsurfaced dirt road, but it is sloped well for drainage, and is generally in good condition for access when dry, except as noted in the Inventory Chart. Both sides of the road are fenced for pasture up to Gate 1, which is a pipe and chain link "sheep gate" in fair condition, maintained closed. Beyond Gate G1 the road consists only of wheel tracks extending 500 l.f. through gently-sloping pasture, and is fenced only on the south side. This segment is also in good condition for access in dry conditions. Gate G2 is a galvanized steel channel 12' wide, in good condition, maintained closed.

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Photo F-1: Napa Junction Road from near R.R. looking west – A(1)



Photo F-2: private Napa Junction Road from near R.R. looking east – A(2)



Photo F-3: private Napa Junction Road at start of segment A(3) looking east

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## NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

A potential alternative to the current access is South Napa Junction Road, a public road extending approximately 800 l.f. from Highway 29 to the railroad, where it becomes a private road crossing a single track (see Photos F-4, F-5, and F-6). It provides access to commercial and residential uses west of the railroad. Beyond the railroad it provides access to an area used for storage of trucks and materials, and a former cement plant and quarry on property owned by Jaeger vineyards. If this route is to be used for access to the Preserve, in addition to permission from Jaeger Vineyards, improvements would need to be made to approximately 3,000 l.f. of existing unpaved roads to connect to the north to segment A3 of Napa Junction Road at the approximate alignment of the future Flosden Road extension.

The second alternative to the current access is Watson Lane, a public road located approximately 2200 l.f. north of Napa Junction Road, and accessible from Highway 29 via Paoli Loop Road (see Photos F-7, F-8, and F-9). Watson Lane provides access to residential and agricultural uses, and crosses the railroad at a single track at a public crossing. The public road ends approximately 800 l.f. east of the railroad at an improved private road on Jaeger Vineyard property that serves agricultural and residential building complexes to the north and south. If this route is to be used for access to the Preserve, in addition to permission from Jaeger Vineyards, improvements would need to be made to approximately 1800 l.f. of existing unpaved roads to connect to the south to segment A3 of Napa Junction Road at the approximate alignment of the future Flosden Road extension.

### Preserve Road System

Internal circulation on the site is provided by a system of unpaved ranch roads comprising a total of approximately 3.36 miles (see Figure 7). Roads on the Open Space Preserve site are described in detail in the Road Inventory and Assessment Chart in Part Three. For convenience, roads are given "placeholder" names and assigned segment numbers. Each road segment is covered in the chart with general recommendations, and site-specific recommendations as appropriate. **This Inventory and Assessment is for general planning purposes only. All findings and recommendations are preliminary and should be subject to review and confirmation or correction by qualified engineers.**

The Preserve roads have historically been used for cattle ranching operations and for access to the PG&E transmission towers. Road connections onto adjacent properties (in addition to the main access) are located at five points around the perimeter of the site as indicated on Fig. 7.

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Photo F- 4: South Napa Junction Road at Highway 29 (looking west)



Photo F- 5: South Napa Junction Road near R.R. (looking west)



Photo F- 6: South Napa Junction Road at R.R. (looking east)

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Photo F- 7: Watson Lane at Paoli Loop (looking east)



Photo F- 8: Watson Lane approaching R.R. crossing (looking east)



Photo F- 9: looking south from end of Watson Lane across Jaeger Vineyards

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**BRUCE RANDOLPH ANDERSON & ASSOCIATES**

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The road system is generally in good condition, with exceptions as noted in the Road Inventory and Assessment, and most roads are navigable by passenger vehicles during dry conditions. The good condition of the roads can be attributed to a large extent to very low use levels. Many of the roads have vegetation growing across the entire surface, which greatly reduces erosion.

From both functional and aesthetic standpoints the roads are well adapted to use as a public trail system. They afford access to most areas of the site, are generally adequately designed and constructed, and provide enjoyable views and experiences for trail users. A few segments are too steep and/or are routed straight down hillsides, making control of runoff and erosion difficult. Other segments dead-end at private property or steep hillsides. These segments are recommended for abandonment, as noted in the Inventory, and alternative alignments are recommended for trail connections where required. Generally, construction of new roads should not be necessary, and new trails are required only in limited locations to provide connections or as alternatives to road segments with undesirable configurations.

Much of the site, including steep slopes and creek banks, is laced with cattle trails. These trails are highly susceptible to use and expansion by Preserve visitors. While some of the cattle trails may be in appropriate locations and may ultimately become part of the designated trail system, many are locations where expanded use could lead to environmental damage or user safety issues.

The soils on the site (described specifically in Section E) are heavy clay loams, which are extremely slick and sticky when wet, and highly susceptible to slope or bank failure when saturated. While the roads are nearly all passable to passenger vehicles when dry, they are impassible even to four wheel drive vehicles when saturated, at least without risking significant damage to the road surface, and subsequently to the road structure. In wet conditions the roads are also impassible, or at least impractical, for use by bicycles and horses, which can each damage the surface with ruts or hoof prints, respectively. Although pedestrians are less likely to cause surface damage than horses and bikes, they will also experience adverse conditions in wet weather. Judging when the roads are wet enough to cause damage from different types of users requires careful monitoring and experience.

### **Ridge Trail Planning Studies and Grants**

One aspect of road use and trail planning related to the Newell Preserve is proceeding on a separate track from the Management Plan. The Bay Area Ridge Trail Council is a private non-profit organization dedicated to implementation of a regional multi-use public trail ringing the nine Bay Area

## NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN PART ONE: OPPORTUNITIES, NEEDS AND CONSTRAINTS

counties. Through the State Coastal Conservancy, the Ridge Trail Council has provided a \$236,000 grant to the Solano County Farmlands and Open Space Foundation to develop a section of the Ridge Trail, an overall Preserve trail system, a public trail staging area including parking, signage and sanitary facilities, and an environmental education program at the Foundation's Lynch Canyon Preserve. The Ridge Trail Council has also committed grant funding for trail and related public access improvements at the Newell Open Space Preserve.

The plan for trail development and designation for Lynch Canyon (see Appendix E) includes construction of a new trail segment on the east side of the ridge between Lynch and Newell (G (1) on Figure 7), connecting from roads designated as segments D and H in this report, and utilizing a portion of roads G, E and E(1). The Route Study map also shows possible future Ridge Trail use of the remainder of road segment E. The Route Study shows that portions of these trails, including the proposed new trail, are on the Newell property.

The trails were constructed in Spring, 2001. Access on a docent-led basis is to continue, expanding on a limited program already begun by the Foundation. Overall, the Ridge Trail planning and grant support is a tremendous boon to the public access objectives of both the Newell and Lynch Preserves. However, careful coordination of improvements and use will be required, since the areas are managed by different organizations, while the sites are physically one unit, and any uses that occur on one site will inevitably occur on the other.

### Conclusions

Any of the three alternative access routes to the site will require agreements with Jaeger Vineyards and the Newell's, and significant improvement to provide a surface suitable for public access. The Watson Lane alternative presents the best physical access situation with the least improvements required. A better public crossing of the railroad and closer access to the site will be created when the Flosden Road and Donaldson Way extensions are completed.

The existing roads on the site are in good condition except for problem areas primarily along segment D and the southern portion of segment F. Except for a few overly steep or dead-end segments the roads, and a few needed connections, the existing road system provides a complete public trail system to serve the Preserve.

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Roads that are to be used for public vehicle access at any time, and roads that need to be accessible in wet weather for patrol, emergency or agricultural purposes should have an all-weather surface; at minimum compacted base rock.

Careful attention should be paid to the use designation, improvement and maintenance of roads and trails and related drainage facilities, as no other site feature is likely to have as significant cost, or environmental impact if it fails.

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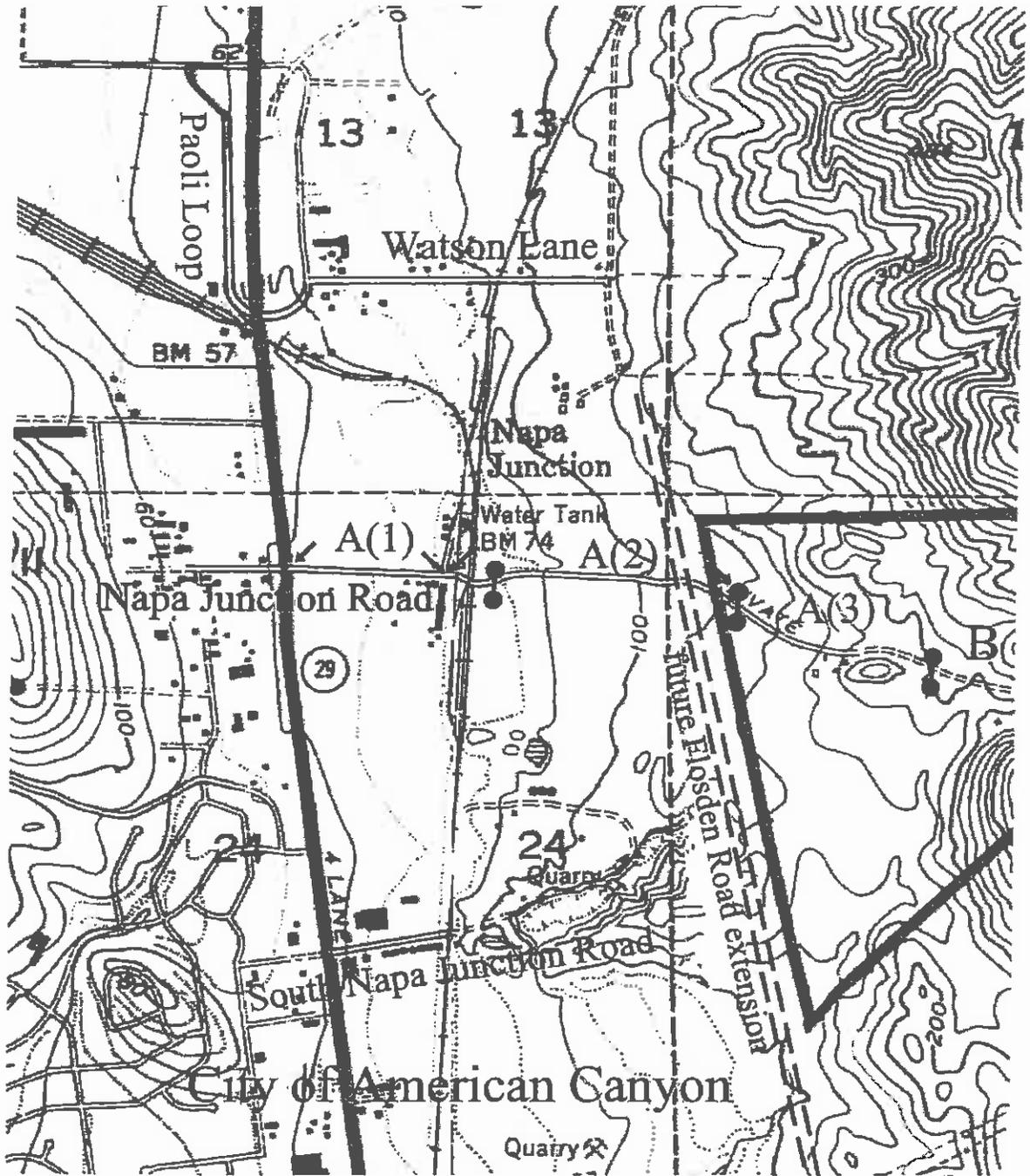


Figure 8  
Site Vicinity and Access Map



Scale in Feet

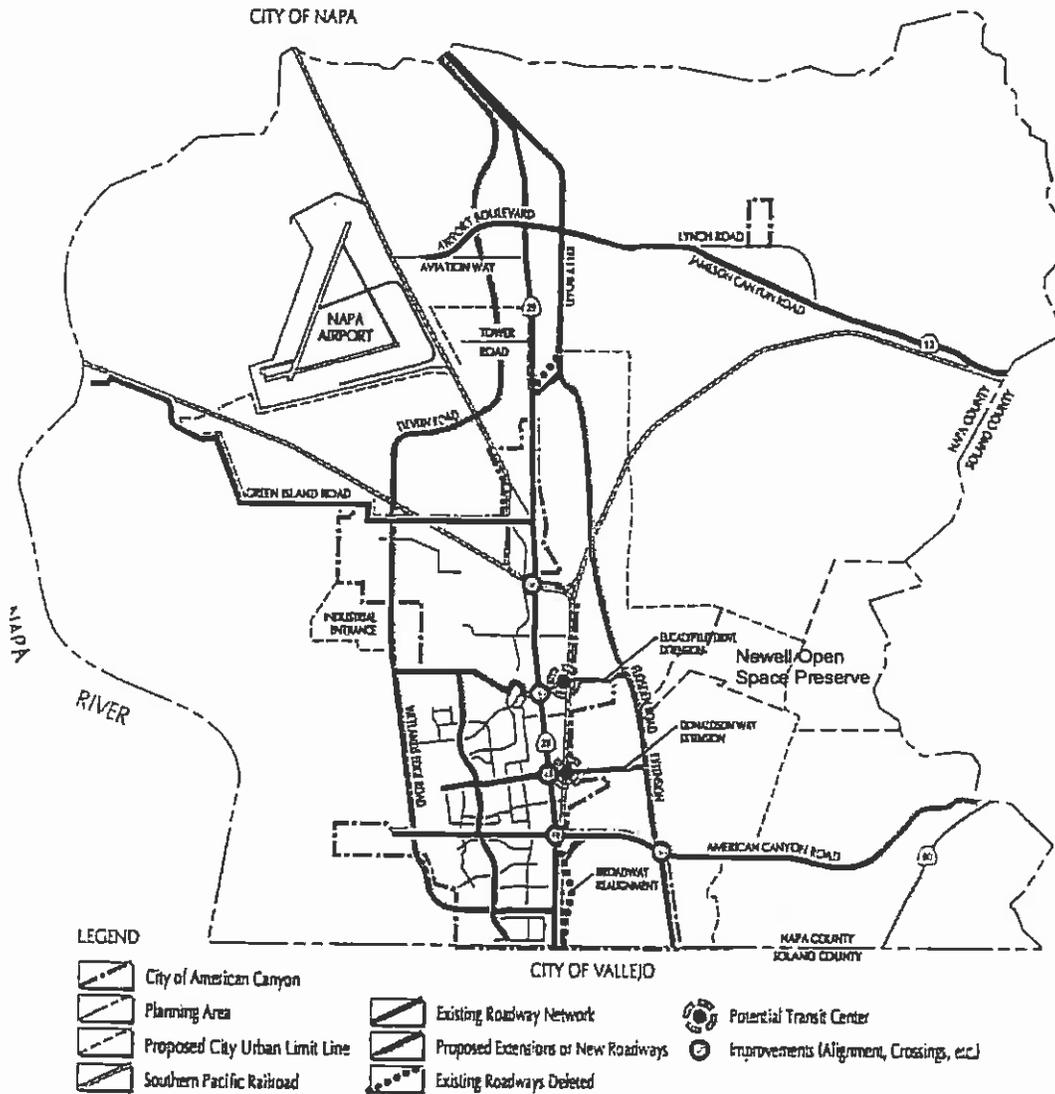


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*American Canyon*  
GENERAL PLAN



SOURCE: Wilbur Smith Associates

Forlorn Corporation Graphics

CIRCULATION IMPROVEMENTS  
PLAN

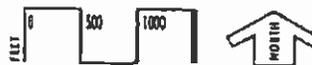


Figure 9  
General Plan Circulation Map

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**Section G: Facilities and Infrastructure**

The Newell Open Space Preserve will remain mostly undeveloped, in accordance with its purpose to preserve and protect the area's flora and fauna, as well as for public hiking and equestrian use. The one remaining structure on the site, an old barn, is in the only area that is anticipated and suited for development of significant facilities (see Figure 10). This site is located near the entrance to the Preserve, south of the lower canyon creek.

The creek in this area lies between eroded banks rising approximately five to eight feet above the creek bed. There is a margin of vegetation on either side of the creek comprised primarily of Coast Live Oak (*Quercus agrifolia*), red willow (*Salix lasiolepis*) and Blackberry (*Rubus ursinus*). In the past there was a bridge crossing the creek just downstream from a large mass of three oaks.

On the southern side of the lower canyon creek is a relatively level area that has historically been the site of dwellings and agricultural buildings. It lies between the lower canyon creek and a steep wooded hillside to the south, and features a long vista to the west. Near the barn remnants of foundations are apparent from two previous dwellings. It was in this clearing that Mary Falls and Richard James built their house when they established their homestead in 1853 (see Section D, Cultural Resources). At least as late as the 1960s there was an intact home in this area where the Lopez family lived. (Mike Rippey).

Approximately half of the total level area around the barn is within the frog mitigation area described in Section B of this report. The boundary of the mitigation area and the Preserve property lines have been roughly approximated on Figure 10. They should be located accurately by qualified surveyors before detailed planning of facilities is undertaken. The remaining usable area around the barn is approximately 2 acres, which may be a constraint depending on the extent of desired parking and facilities.

The wooden barn, while still standing, is not in good structural condition. It is approximately 53 feet wide by 46 feet long with a steeply sloped aluminum roof that is badly damaged, especially on the south side. The barn has an earth-floored central bay approximately 18 feet wide where the feed was presumably stored and forked into the feed troughs, and open cattle feeding areas under the eaves on the north and south sides. These feeding areas have deteriorated concrete floor surfaces. The low eaves on the open sides have sagged further as the structure has aged, such that the eaves on both sides are less than six feet clear of the ground. The barn structural members appear to have been protected from the weather and appear to be sound. The barn should be inspected by a structural engineer or other qualified person to advise on condition and requirements to stabilize and improve the structure.

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
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It is possible that the barn could remain as a historic relic, and be improved upon to become the preserve visitors/education center.

This area may also be the site of a future caretaker's home. A caretaker could function to monitor the condition of roads and trails as well as provide a presence on site to encourage visitors' compliance with preserve regulations. This area is well suited for the visitors' center and caretakers home because it is close to the preserve property boundary and the entry road, and is relatively close to water and power services.

Access to water is available from City of Vallejo water mains. Both potable water and raw water lines are available approximately 1500 feet west of the Barn area, crossing the access road near the Newell's driveway. Access to electric power and phone service is also at this point, which is the extension serving the Newell residence. Figure 8 notes the location of the power and water lines. There are no sanitary sewer facilities located on or near the site, and waste disposal would have to be provided by septic system(s) or vault toilets.

The only other facilities or infrastructure on the site are PG&E transmission towers, ranch roads and related drainage structures, fences and gates, and rudimentary water collection systems for the cattle operation. These facilities are located on Figure 7 and are described in Section F and Road Inventory and Assessment, the Road Inventory.

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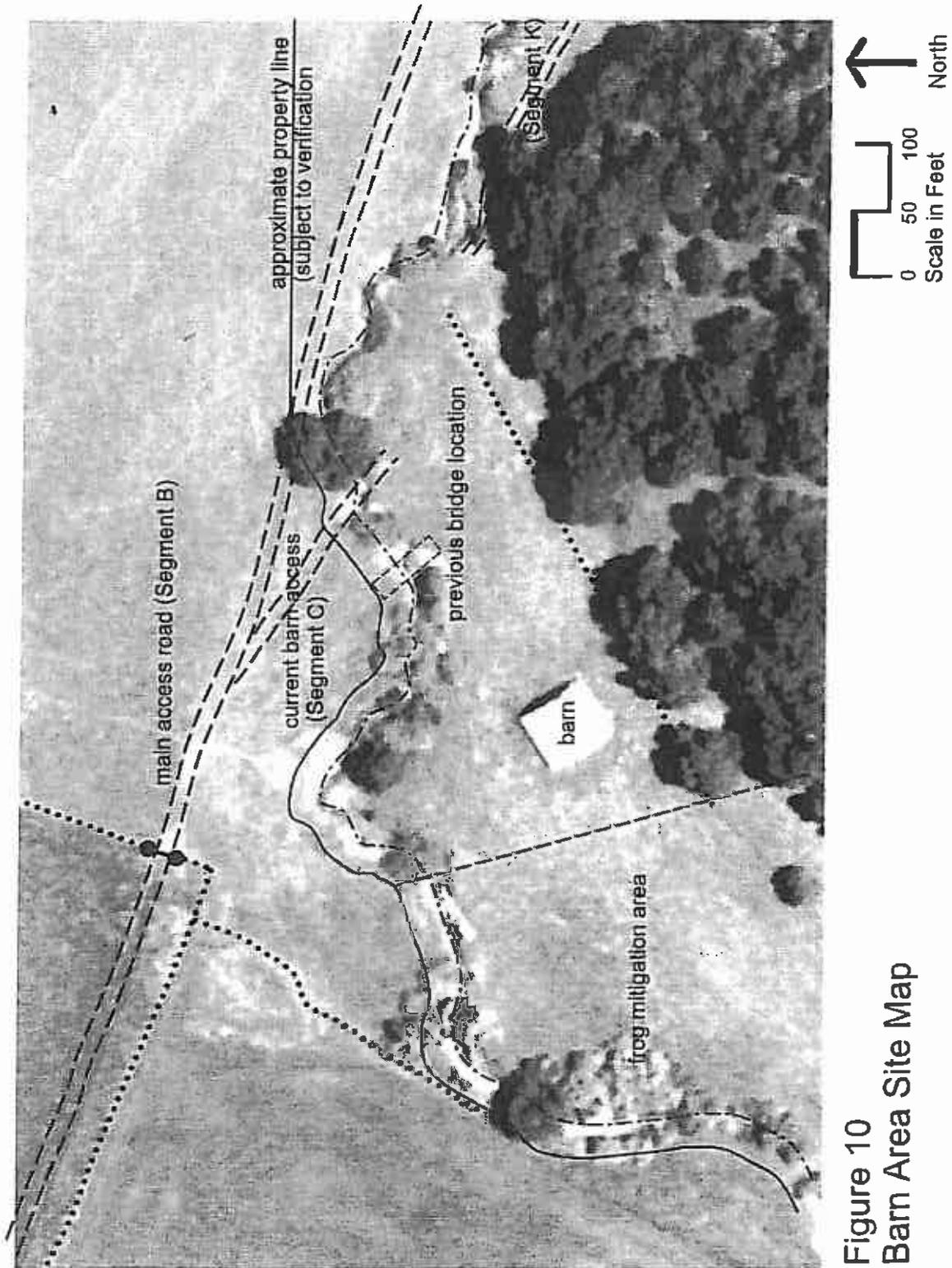


Figure 10  
Barn Area Site Map

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**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
PART TWO: USE AND MANAGEMENT PROGRAM**

**Overview**

Part Two of the Management Plan specifies the policies and actions for management, improvement, and public use of the Preserve. Once adopted by the City of American Canyon and accepted by the Napa County Land Trust, these measures become the official policy and plan for use and management of the Preserve. The Use and Management Program, except for the Grazing Management Plan, is presented in outline form for easier reference. Section A addresses Resource Protection and Restoration, which is the priority goal for the Preserve. This includes the Grazing Management Plan contributed by the Natural Resources Conservation Service, as grazing is an integral part of the resource management approach. Section B addresses Site Use and Improvement: policies for management of public use and implementation of related improvements and facilities. These policies and measures have been designed to support the Resource policies. Section C, Site Management, addresses the tasks and arrangements necessary to effectively administer and manage the site in accordance with the Resource and Site Use and Improvement policies.

**Section A: Resource Protection and Restoration**

The overall goal is to restore the Preserve to a diverse and relatively natural biological condition, to the extent possible. Given the historical conversion of grassland to dominance by non-native annuals, and the long-term alteration of the landscape by grazing and prior manipulation by Native Americans using fire and rudimentary agriculture, there is no absolute "natural" condition, and even an unaltered landscape evolves and adapts to climatic and biological changes over the long term..

The primary focus of specific resource protection and restoration efforts will be on grazing/grassland management, including fencing and water supply improvements to provide opportunities to rotate cattle and protect creeks; creek bank and creek bed restoration and protection measures, and measures to protect and restore tributary drainage gullies; and protection of rare and sensitive plant species, including serpentine bunchgrass, and Tiburon paintbrush, and animal species including burrowing owls, eagles, and other raptor species that congregate on the site during fall migrations.

**1. Native Vegetation**

**a. Monitoring and Management**

- 1) Develop an agreement with the California Native Plant Society, Natural Resources Conservation Service, local universities, and/or other qualified botanists to annually monitor and report on the condition of native plant populations and habitat, and help identify and coordinate needed protection and restoration action.

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- 2) Coordinate monitoring and management efforts with Solano County Farmlands and Open Space Foundation, managers of Lynch Canyon Open Space Preserve.
- 3) Conduct a fine scale survey of soils to help identify sites suitable for tree planting.
- 4) Arrange that consistent scientific study methods are used and records are maintained for future reference and assessment

b. Rare and Sensitive Plant Species

- 1) Protect habitat of Tiburon paintbrush from grazing by fencing and monitoring population/habitat on a regular basis. Use controlled short-term grazing and/or other management practices to maintain and improve the health of this plant community. Minimize impact to this community by excluding this area from trail construction, but permit casual entry for photography and other forms of passive recreation or study.
- 2) Regularly monitor the population of *Ribes victoris* and other special status or unusual plants on site and determine if protection or restoration action is needed.
- 3) Isolate riparian corridors or create setbacks from cattle grazing areas to improve water quality, minimize erosion and vegetation trampling. Actively restore degraded riparian vegetation.

c. Plant Habitats and Communities

- 1) Minimize grading to minimize erosion and reduce vulnerability to weed invasions.
- 2) Install fencing to control grazing access to the Serpentine bunchgrass plant community to maximize quality of sensitive plant habitat (see A.3., Grazing Management). Use controlled short-term grazing and/or other management practices to maintain and improve the health of this plant community.
- 3) Minimize impact to the Serpentine bunchgrass plant community by excluding this area from trail construction, and providing docent-led access to enhance public appreciation.

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- 4) Install fencing to control grazing access to riparian areas and take action to protect and restore riparian vegetation (see A.5.b., Riparian Areas, for specific protection and restoration measures).
- 5) Encourage native grasses and forbs by controlled grazing and/or burning, and potentially by collection and planting of seed from existing plants on-site.
- 6) Prevent erosion along trails, gullies and roads by restoring with perennial ground cover (*Leymus triticoides* and *Carex barbarae*) and shrubs (*Symphoricarpus albus*, *Rubus ursinus*). Use only locally collected seeds or cuttings for restoration projects.

d. Invasive Plants

- 1) Control yellow and purple star thistle, teasel, fennel, cardoon, horehound and other invasive plants in grassland areas through careful management of grazing and/or controlled burning (see A.9., Grazing/Grassland Management, and C.1.e., Fire Protection).
- 2) Control invasive plants in public use areas and other non-grazed portions by hand or machine mowing, pulling, and use of herbicides in an environmentally sound manner in accordance with best management practices.
- 3) Control weed invasion along streams, particularly Himalayan blackberry, by annual monitoring and if needed, executing a program to control or eliminate where possible.
- 4) Monitor the Eucalyptus groves on and near the site and remove seedlings as necessary to control the spread of these trees. These eucalypts provide desirable nesting and roosting sites for raptors, and have value as cultural/aesthetic features, but can be invasive if not controlled over the long term. The very long-term objective is to replace these non-native trees with native trees, such as oaks.
- 5) Remove dead wood from the Eucalyptus grove to reduce potential for falling limbs.

2. Wildlife and Wildlife Habitat

a. Monitoring and Management

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
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- 1) Work with the Audubon Society, the U.S. Fish and Wildlife Service, local universities, and/or other qualified biologists to monitor and report on the condition of native animal populations and habitat, and help identify and coordinate needed protection and restoration action.
- 2) Arrange that consistent scientific study methods are used and records are maintained for future reference and assessment. The Land Trust of Napa County will be responsible for reviewing and approving scientific study methods.
- 3) Monitor and potentially manage populations of feral and non-native animals that may impact preserve resources, such as cats, dogs, red fox, and wild pigs. Cooperate with adjacent property owners, County Animal Control, and state and federal wildlife agencies with regard to any significant control measures.
- 4) Coordinate monitoring and management efforts with Solano County Farmlands and Open Space Foundation, managers of Lynch Canyon Open Space Preserve.

b. Sensitive Species, Habitats

Regulate traffic or isolate portions of the park during season of ground nesting birds. Specifically protect the colony of burrowing owls located in the southeast corner of the site.

c. Red-Legged Frog Mitigation

Work with US Fish and Wildlife Service to improve habitat for red-legged frog. This may include development of shallow seasonal ponds in the designated mitigation area, and/or along portions of the lower main canyon creek.

d. Eagle Nesting and Other Raptor Protection

Close or limit use of trails that pass near active nests during nesting season of protected raptor species and potentially during heavy fall raptor migration activity. Coordinate with Audubon Society and U.S. Fish and Wildlife Service regarding monitoring and protection methods, and combine efforts to control access with public information and education.

**3. Cultural Resources**

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
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a. Archaeological Resources

- 1) Protect existing archaeological sites and features from disturbance, potentially including fencing of the grinding rock along trail K.
- 2) Use qualified archaeologists to survey any sites to be developed or disturbed prior to initiating work, if the site has not been previously surveyed.
- 3) Do not publish the location of known archaeological sites in order to protect them.
- 4) Include information about Native American use of the site in interpretive materials and programs (see 7.c.1), Barn Area Use and Improvements).

b. Historical Resources

- 1) Continue to collect and maintain information about the history of use of the Newell Preserve site and adjacent areas and make it available to current residents and visitors.
- 2) Include information about history of the site and the region in interpretive materials and programs (see 7.c.1), Barn Area Use and Improvements).

**4. Geology, Soils and Hydrology**

Many of the slope failures and eroded gullies on the site are located along road segment D and the parallel creek drainage to the south. Fencing cattle out of the area between the road and the ridge south of the creek as proposed in the grazing management plan will aid the protection and restoration efforts outlined below. The references outlined below provide general guidance. Repair methods should be specified for each particular problem area by a qualified engineer or scientist.

a. Landslides and Bank Failures

Many of these failures are related to down-cutting of stream channels or cuts created during road construction. Other slope failures have occurred naturally and will stabilize and re-vegetate on their own.

- 1) For slides that are impacting roads on moderate slopes, re-grade the road through the area while minimizing cut or fill slopes.

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- 2) Facilitate drainage of water from the slope by installing subsurface drains similar to the diagram *Surface and Subsurface Drainage to Increase Soil Shear Strength*, USDA, Natural Resource Conservation Service, 1998.
- 3) Use bio-engineered slope stabilization methods outlined under Riparian Areas (b.5) for very steep or unstable slopes.

b. Riparian Areas

- 1) Isolate riparian corridors partially or completely from cattle to improve water quality, minimize erosion and trampling (flash grazing may be useful for vegetation management purposes).
- 2) Monitor the south canyon tributary creek for impacts of cattle. The Grazing Management Plan includes fencing and development of new water supplies that will allow cattle to be fenced out of riparian areas along the entire upper and lower main canyon. The south tributary creek will remain accessible to cattle. It is well vegetated and does not display the impacts of the main canyon creek. It should be monitored and cattle fencing should be considered if impacts are identified.
- 3) Construct grade control structures (brush or rock dams or hard points) in creek beds as needed to stabilize downcuts. Specific details for construction are contained in *Groundwork, A Handbook for Erosion Control in North Coastal California*, Marin County Resource Conservation District, 1987, pages 21 and 22. Straw bale check dams should be avoided in creeks because they break down too easily.
- 4) Plant bare and eroding creek banks with native vegetation, i.e. willows and other native riparian plants, preferably collected from material on-site. Use fiber mats or other mulch as necessary to protect slopes until plants become established.
- 5) For actively eroding and slumping creek banks, use bio-engineered bank protection methods detailed in the *Field Engineering Handbook, Chapter 16, Streambank and Shoreline Protection*, USDA, Natural Resources Conservation Service, 1996, pages 13 – 21 and pages 31 and 32 Use of rock bank protection should generally be limited to the toe of slope on tight apexes of curves where scour will occur.

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- 6) Remove old portions of water systems left in creeks. Reconstruct if necessary in conjunction with improvement of cattle water supply

c. Tributary Drainages

Stabilize and repair eroding gullies through the following methods, which are detailed in *Groundwork, A Handbook for Erosion Control in North Coastal California*, Marin County Resource Conservation District, 1987, pages 6 - 21:

- 1) Reduce soil compaction by eliminating or rotating grazing activity.
- 2) Reshape eroding head cuts and gullies by hand or light machine grading. Disturbed areas will require protection with straw mulch or fiber mats until vegetation is re-established. Large and/or steep re-graded areas or slope failures may require slope retention measures as outlined under 5.b.
- 3) Replant with herbaceous cover (broadcast or hydroseeded native seed mix), and/or with woody vegetation (ideally cuttings from native willows if there is enough soil moisture to support them).
- 4) Replant north-facing gullies with native oaks, bays and buckeyes to provide cover and slope stabilization.
- 5) Install rock or brush check dams and rock riprap in particularly steep down-cutting channels.

d. Wetlands

- 1) Reduce impact to wetlands by controlling grazing and providing alternate water sources.
- 2) Avoid impacts by keeping trails out and away from wetlands.

e. Unique Geological Features

The rock outcroppings at the southeastern boundary of the Preserve should be protected from potential damage by climbing activities (see Site Use and Improvement, B.3.e)).

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
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**5. Grazing Management Plan**

**Introduction/Setting**

During the fall and spring of 2000-2001 NRCS staff began assessing the Newell Open Space Preserve, (NOSP) property, at the request of the City of American Canyon, the Land Trust of Napa County, and planning consultant Randy Anderson. NRCS was requested to prepare a physical assessment of the NOSP and a grazing management plan with the current lessees Ron and Ralph Azevedo. The following natural resource assessment and plan recommendations were prepared following on-site reconnaissance, meetings with the Azevedo brothers and others, and reviews of existing resource information available for the NOSP and neighboring Lynch Canyon lands.

The 648 acres of preserve lands have a long history of farming and ranch use. Livestock grazing has been the dominant use of the land for the last 150 past years or more, (personal communication with Ralph and Ron Azevedo).

About 80% of the land area consists of annual grasslands. The majority of the remainder of the preserve includes bay laurel-oak woodlands and two groves of Eucalyptus. Most lands are steep in terrain with isolated pockets of gentle slope and canyon bottom lands and ridge lines soil types generally differentiate the various vegetation areas. The 1978 SCS Napa County Soil Survey maps most of the grasslands as Fagan clay loams, within two slope phase designations. The bay laurel-oak woodland in the southwestern corner of NOSP is mapped as Millsholm loam 30-75% slope. Two prominent rocky ridgelines consist of Hambright-rock outcrop complexes, and an inclusion of serpentinitic soil along a portion of the southern property boundary.

Fagan soils are generally associated with Markley formation sandstone parent materials. Fagan soils have a high soil moisture holding capacity, owing to a high clay content in both the topsoil and subsoil. Landslides and earth flow instabilities are common occurrences in Fagan-dominated landscapes. NOSP grasslands and riparian areas are heavily pock marked with earthen rotational slumps, landslides, and gullies, throughout much of the uplands. Stream bottom degradation and bank erosion are common along most of the upper riparian area reaches. Fine sediment deposits in lowland riparian areas represent a small fraction of the erosion emanating from hillslopes and down-cutting headwater stream reaches.

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**Photo 2 -1.** Looking northwest from NOSP. Typical hillside landscape of Fagan series. Note recent landslide activity in the background.

Ranch access roads, road culvert outlets, and grazed riparian areas in various areas of NOSP exhibit active concentrated flow, gully, and headcut erosion that has been accelerated by land management practices. Restoration plans will clearly need to focus on protecting these areas from overuse, to allow for vegetation to establish and provide adequate stabilization.

### **Grazing**

Forage production on Mediterranean annual grasslands is highly variable, both on a total annual and seasonal basis. Precipitation, soil type, land slope and aspect, canopy overstory, and forage type/condition, influence the amount, quality, and seasonal availability of feed. High soil moisture capacity and cool, foggy conditions combine to create potential for excellent annual grass and for production in the Jamieson/American Canyon lands of southern Napa County. This potential must be evaluated and balanced with additional considerations with steep slopes, soil compaction, and the presence of yellow star thistle, *Centaurea solstitialis* and purple star thistle, *Centaurea calcitrapa*. Climate, physical conditions and plant community composition alone do not fully determine the productive capacity of the land. Grazing strategies and tools including stocking rate, season of use, watering and mineral supplement location, and paddocks development/ management also significantly influence short and long term feed production and sustenance of desired plant species.

Grazing capacity is defined as forage production available for grazing on a given site. Expressed as animal unit months or AUMs, (the amount of forage needed to support one adult cow with calf for one month), available forage is factored minus that which

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should be left as residue at the end of the grazing season. Properly calculated for the site, stocking rate provides a measure of the number of livestock that can be grazed without damage to forage productivity or decline in condition of the land.

**Site Productivity Estimation**

Because detailed site-specific grazing history and forage production records are not available for the preserve, various sources of information were consulted to determine estimated carrying capacity production. Estimates for the neighboring Lynch Canyon property were examined, but productivity estimates based on short-term plot data appeared to be somewhat high.

Based on local experience in the Jamieson Canyon/ American Canyon area, well-managed ranches have been able to carry an animal unit, (AU) equivalent on 3 to 6 acres, per typical 5 to 6 month grazing season, (NRCS staff long-term observation and experience). County SCS soil survey range site productivity figures for Fagan "fine loamy" range sites place grazing capacity estimates roughly within this estimate in "favorable" vs. "unfavorable" rainfall years. The UC Davis "Estimated Grazing Capacity Scorecard" was consulted, but not used, as precipitation and geographic ranges do not fit well with conditions in southern Napa County.

SCS soil range site descriptions were used for NOSP estimates, as figures closely match long-term productivity observations, and allow for production based on soil and rainfall variables. In years of average to above average rainfall and favorable rain distribution, the survey lists 3,200 pounds of annual air dry production potential per acre. In dryer, less favorable conditions only 1,600 pounds of production are estimated.

A second "Shallow course loamy" range site description is mapped for bay laurel-oak woodland lands in the south west portion of the NOSP. Because this area will be precluded from grazing, acreage and production estimates were precluded from the analysis. In addition, because sensitive plant communities, erosion prone lands, and most riparian areas are being recommended for exclusion from regular grazing, a total area of 460 acres is estimated to be available for forage production. Of these lands, approximately 30%, or 138 acres are moderately sloping with the remaining 322 acres in strongly to steeply sloping terrain. Different grazing utilization factors as well as 2 residual dry matter, (RDM) factors, were used based on terrain variables previously noted. These are reflected in the following NOSP grazing capacity estimate summary:

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Table 2-1

**Fine-loamy SCS Range Site Production Estimates  
For NOSP Grazable Lands**

		<u>Favorable Years</u>				<u>Less Favorable Years</u>	
	<u>Moderate Lands</u>		<u>Steep Lands</u>		<u>Moderate Lands</u>		<u>Steep Lands</u>
<b>*Total Production</b>	441,600		824,320		220,800		515,200
<b>Recomm'd. RDM *</b>	103,500		322,000		103,500		322,000
<b>Total Avail. Production*</b>	338,100		502,320		117,300		193,200
<b>Total AUM's Available</b>		840				311	

\* Figures are in pounds

The above figures were based on an estimated 460 acres of net grazable land. The Grazing Management plan map details locations of pastures, and designated grazing exclusion areas used in the analysis. Computations included higher required residual dry matter, (RDM) levels for steeper lands and a 20% reduced forage use factor for lands less accessible for animal use. Maintaining minimal prescribed levels of RDM throughout NOSP will be an important tool to assess proper grazing use. It is recommended that a minimum of 750 lbs. per acre be left on moderately-sloping land, and 1,000 lbs. per acre retention on the steepest lands. In addition to RDM measurements, visual assessments of plants species composition, and range trend analysis will provide an ongoing measure of grassland restoration and grazing management effectiveness. More detail is provided in the "Monitoring" section of this plan.

**Current Grazing Program**

The Azevedo's currently graze NOSP lands in combination with other adjacent properties, where they run a diversified cow/calf and stocker operation on their own ranch and other adjoining lands. The NOSP, portions of Lynch Canyon, and the Jaeger ranch, (about 1,500 acres total) are mainly utilized to carry yearlings. The cattle are brought onto the land in mid to late fall and graze into the month of June. Perimeter fencing between NSOP and Jaeger lands is in poor repair, and no fencing is in place between NSOP and the Lynch Canyon Parcel. In January 2001, about 250 yearlings

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were grazing NSOP and plans called for keeping the animals on the land through the grazing season, (personal communication with Ralph and Ron Azevedo).

Assuming that the 250 yearlings stay mostly on the NOSP through May, forage demand would roughly equal 1,125 AUM's, (250 x 0.75 AU x 6). Assuming a six-month grazing season, with no winter supplementation of hay, this value exceeds the "favorable" year production estimates by about 33%. It should be noted that these production estimates are based on a future net loss of 20% of currently grazable land, as previously noted. The use of, or need for supplemental hay feed inputs and grazing drift due to lack of fencing control between ranches are management issues that should be clarified prior to implementing a grazing plan agreement between the city and the Azevedos.

Although production estimates for carrying capacity are rough at this point, they do point to the fact that stocking rates and past grazing season range conditions should be closely monitored to evaluate for any needed adjustments. The preliminary analysis strongly suggests that stocking rates would need to be significantly reduced to prevent overgrazing in less favorable rainfall years.

Fencing and other rangeland improvements should be put in place to improve grazing control on the NOSP. Once necessary perimeter fences, cross fencing, and water developments are complete, yearly post-grazing RDM measurements and pasture condition and trend observations will provide information to fine tune stocking rates, and evaluate grassland restoration goals. Applied properly, prescribed grazing management practices should reduce upland erosion rates, help control star thistle, reduce water quality impairment, and improve overall plant species composition. Exclusion fencing of sensitive riparian and upland erosion problem areas, coupled with revegetation and other stabilization measures will be important additional components of the restoration package.

### **Rangeland Improvements**

Currently, NOSP lands have minimal facilities to control and manage livestock grazing. Perimeter fencing between the property and adjacent lands grazed by Azevedo's should be repaired or installed as noted on the plan map. Water development and pasture cross fencing are also lacking, allowing cattle to roam freely throughout the NOSP without the benefit of pasture rotational rest periods. Resting of pasture units will be essential to achieving restoration, production, and management goals.

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Photo 2-2. Proposed South Pasture, (Looking northwest)

In addition to grazing management control, certain fences will also create exclusion zones to protect riparian areas, sensitive plant habitat, and the Southern Woodland area. Based on monitoring results, it may be beneficial to periodically introduce short-term “flash” grazing of these sites to manage mediterranean annual weeds and allow for establishment of introduced trees and shrubs.

Wherever possible, fencing should be located downslope from ridgelines to reduce visual impacts. Fencing should also be constructed where maintenance access will be possible. Fencing should also be kept as far away as possible from gullies, landslides and other active erosional areas. Public use of the area precludes building electric cross fencing. The conservation easement calls for “wildlife friendly” fencing with the following specifications:

- Height of fence should be a maximum of 42 inches;
- Smooth (barbless) top wire;
- At least 12 inches between the top two wires;
- Smooth bottom wire at least 16 inches above the ground.

(Source: Colorado Division of Wildlife, Hot Sulphur Springs, CO; (970) 725-3557

Gates and access-through points will be designed for public passage where necessary. NRCS will supply specifications for construction of fences and bracing systems.

Development of watering locations, as noted on the map, will be necessary to replace riparian watering areas along the northern and main-stem creek channels. It will also assist with more efficient, uniform distribution of grazing. It is recommended that the city extend a pressurized water line up the main road, as shown on the map, to feed 2 main troughs in the west and south pastures, (to be created with cross fencing). A third

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trough, (spring fed) should be restored in the location noted in the south pasture. NRCS will be available to assist with design of the systems when trough siting is finalized. Water for the north pasture and uplands of the south pasture will source from the Lynch Ranch, and a seasonal pool in the northeast corner of the NOSP. Watering locations will need to be fully developed and operational prior to cross fencing the pastures. If additional paddock units are fenced in the west pasture for yellow star thistle management, one or two additional troughs should be placed west of the one shown on the plan map.

**Costs**

Cross-fencing required to create the 3 pastures and grazing exclusion areas totals approximately 11,500 feet, (based on the scaled plan map). Based on conversations with Ron and Ralph Azevedo, about 12,900 feet of perimeter fence needs to be replaced as well. Developing the two trough watering locations will require about 3,600 feet of pipe, in addition to the water troughs and appurtenant fixtures. The following table summarizes estimated costs, factoring labor as well as materials for fencing and water improvements.

**Table 2-2. Cost Estimate**

Item	Extent	Unit Cost	Total
Cross-fencing	11,500 ft.	\$2.00 per foot	\$23,000.00
Trough Pipe System (1 ¼ in. sch. 40 PVC)	3,600 ft.	\$1.80 per foot	\$6,480.00
Watering Troughs	3 units	\$500.00	\$1,500.00
Perimeter Fencing	12,900 ft.	\$2.00 per foot	\$25,800.00
Spring Development Restoration	1 Development	\$1,000.00	\$1,000.00
Sum Total Cost	—	—	\$57,780.00

Various grants or cost-sharing programs may be available to help defray some of the range improvement costs. The USDA's "Environmental Quality Incentives Program", (EQIP) may be a potential source of cost sharing assistance, if the City of American Canyon is deemed to be an eligible sponsor, (this is currently being investigated). Other programs such as the USDA "Wildlife Habitat Improvement Program", (WHIP) may also be a funding vehicle for riparian exclusion fencing and associated habitat improvements.

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Photo 2-3. Spring development in need of repair, (South Pasture)

### Grazing Monitoring

To achieve grazing production and grassland restoration goals, regular monitoring of range condition should be conducted. This monitoring could be performed by the property caretaker or volunteers, who could be trained by the NRCS. Maintenance of adequate RDM levels will ensure that ground surface conditions enhance control of soil erosion, minimization of soil compaction, and desired plant performance.

Visual gauging tools such as the Wildland Solutions "Residual Dry Matter Monitoring Photo Guide" provide an excellent, practical resource for judging adequacy of RDM levels, and further refinement of stocking rates. Observations of soil capping and crusting, runoff patterns and plant specie composition add to the analysis of grazing effect on the land.

Several visual photo points should be established in each pasture unit to provide yearly comparisons of RDM levels, surface conditions, and trends in general plant community composition. These observation methods should be combined with yearly weather data, stocking records, weaning weights, and animal performance to determine optimum stocking rates, stock density, and season-of-use strategies for the various pastures.

### Weed Management

It is proposed that the west pasture be considered as a special management area for yellow star thistle, (YST) control. This weed infests vast areas of annual rangeland in California, and is a troublesome invader in the NOSP.

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A great deal of research on YST control has been carried out by the University of California and others. Currently, no single control strategy has emerged as a "silver bullet" for managing the weed. Various methods have been examined, including herbicides, fire, mowing, tillage, and grazing pressure. For the NOSP setting, herbicides and planned grazing timing are the most appropriate management methods. A combination of both methods will likely be the best approach.

A major goal of the grazing management program will be to maximize the distribution and overall stand density of native perennial grasses. Vigorous stands of perennial plants have also been observed to suppress the extent and density of YST infestations in various Napa County rangeland settings. NRCS and the University of California Extension Service will be able to provide further guidance on YST control, as cross fence and water developments enable more intensive management of NOSP pastures.

**Critical Erosion Areas**

Soil erosion problems are common in the hillside landscapes and upstream riparian areas. Excluding these areas from grazing is an important first step in the restoration process. The eastern-most grazing exclusion area noted on the plan map should be considered a priority, as stream channel erosion as well as active landslides discharge high rates of sediment to the stream, and preclude establishment of needed vegetation and habitat.

A combination of small, in-stream structures, native tree and shrub plantings, and vegetative revetments are recommended to reduce stream bank erosion problems and check head-cut erosion in the stream bottom, and adjacent landslides and gullies. Most measures can be installed with minimal use of heavy equipment and disturbance to fragile in-stream habitat. Typically termed "bio-engineered" treatments, these practices feature maximum use of plant materials, and minimal use of hard-armoring materials such as rock rip-rap. Selection of practices, and installation detail are specifically designed to re-establish stable, stream geometry, in keeping with natural, historic morphological characteristics. Because riparian areas are resilient ecosystems, biological functions and values can typically be restored relatively quickly, as compared to upland habitats.

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**Photo 2-4.** Active head-cut erosion advances upstream in this reach alongside the access road. As the stream down-cuts, stream banks, road embankment, and adjacent hillsides are weakened and made more erosion-prone. Use of placed rock, native willow plant material, and plantings of trees, shrubs, grasses, and grass-like plants should be used to check head-cuts, stabilize stream banks, and restore shade and habitat.

Approximately 5,000 feet of riparian area is in need of erosion control and habitat planting. Most of the serious problems, requiring grade control and extensive plantings occur in the uppermost reach of stream in the grazing exclusion zone, (about 3,000 lineal feet).

No specific cost estimates have been developed, but similar restoration work on streams of this type range from about \$50.00 per lineal foot to \$80.00 per lineal foot. It is recommended that work be staged to treat lower stream reaches first, working restoration treatments gradually up stream, with in-stream grade control installations performed ahead of stream bank stabilization measures.

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**Photo 2- 5. Willow Revetment-** Willow revetments are a very effective, low cost means of controlling stream bank erosion. On most sites, they can be built without the need for heavy equipment, just able-bodied labor. Collection of dormant plant material should be conducted as near to the planting site as possible. Trained volunteer crews, the California Conservation Corp., or private restoration firms are capable of performing the work, depending on the complexity of treatment needed.

The NRCS will be available to assist the City of American Canyon with further assessment of NOSP conservation needs, and also maintains a listing of qualified professional consultants and local suppliers of materials described and recommended in this plan.

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**Section B: Site Use and Improvement**

This section provides policies and actions for management of public use and implementation of related improvements and facilities. These policies and measures have been designed to support the Resource policies, and to provide opportunities for public to enjoy, appreciate and take part in protection of the natural, historic, aesthetic, and recreational resources of the site.

**1. Designated Trail System**

- a. Designate the trails A through K shown on the Site Conditions Composite map (Figure 7) as the Preserve trail system, with exceptions and additions as noted.
- b. Designate the main canyon trail (segments A, B, and D) and/or the south canyon trail (segments F, G, H, and H1) as Community Connector Trails between the Ridge Trail and the City of American Canyon and the Bay Trail.
- c. Segments F(1), E(2), G(1), H east of H(1) and the easternmost, switchback portion of J shall not be designated for public trail use due to steep slopes and/or dead ends at private property.
- d. Sign segment E north of Segment E(1) to note that it is not a through trail and that there is private property ahead.
- e. Designate and sign segments J and K for hiking only on a docent-led basis to ensure protection and appreciation of the more sensitive riparian and woodland habitat accessed by these trails.

**2. Designated Trail Uses/Seasonal Limits**

- a. General
  - 1) Trails shall be open to public use as specified in these policies. No other trail uses shall be allowed except by specific written permission of the City and the Trust.
  - 2) All use will be restricted to designated trails and use areas to protect sensitive resources and minimize disturbance of cattle.
  - 3) Access to specific use groups depends on their compliance with Preserve policies and regulations, suitable environmental and

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safety conditions, and the ability of the City to provide adequate management and maintenance.

- 4) Where specific types of trail use conflict with resource management or agricultural objectives, they may be temporarily or permanently limited or excluded.
- 5) Trails may be closed to certain uses, or all use, seasonally, days of the week, or times of the day in order to protect resources and manage trail uses for safety and to avoid user conflicts.

b. Hiking

- 1) Hiking, walking and running shall be allowed on all designated trails subject to Preserve hours and specific trail closures for resource management or safety purposes.
- 2) Trail Segments K and J shall be designated for hiking use only, to allow a short loop, close to the staging area for families and nature observation.

c. Persons with Disabilities

- 1) Trails B and C and access within the Preserve staging area shall be improved to accommodate wheelchairs per state and federal standards.
- 2) All other trails are in natural terrain with slopes and conditions that do not allow improvement to these standards. However, gates, stiles, and other improvements on all trails shall be designed to allow wheelchair access wherever feasible.

d. Bicycles

Bicycles shall be allowed on all designated trails except Segments J and K, subject to Preserve hours, seasonal closures for wet conditions, and specific closures for resource management or safety purposes.

e. Horses and Other Riding and Pack Animals

Horses, mules, llamas and other riding or pack animals shall be allowed on all designated trails, subject to Preserve hours, seasonal closures for wet conditions, and specific closures for resource management or safety purposes.

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f. Dogs

The City will carefully monitor and manage access to dogs to protect sensitive natural resources (particularly ground nesting birds), cattle grazing operations, and other public access uses, and to maintain consistency with policies for the adjacent and interconnected Lynch Canyon Open Space Preserve.

**3. Designated Use Areas, Programs**

a. Picnicking

- 1) Formal picnic facilities (tables) will be provided at the Preserve staging area and at the group camping area (see Fig. 11, Site Plan, and Fig. 12, Staging Area Improvements). No open fires will be permitted. Cook stoves and grills will be permitted.
- 2) Tables at the group camping area may be used informally by hike-in visitors when not used by campers, but shall not be available for public drive-in picnic use.
- 3) Reservation of the picnic tables at the staging area will be allowed for local groups. At least 2 tables will be reserved for public use when other tables are reserved for group use.

b. Hike-in, Group Camping

- 1) A hike-in/drop off group camping area for up to 20 persons will be provided near the junction of trails B, F, and K (ideally as a cooperative project with a youth organization).
- 2) The area will be available for use by local residents on a reservation/permit basis through the City Parks and Recreation Department. Basic facilities (water, toilet, tables, and designated sleeping sites) will be provided.
- 3) No open fires will be permitted. Cook stoves and grills will be permitted for authorized camping groups only on picnic tables or in designated cleared areas. No trash receptacles will be provided – users are to remove everything that they bring.

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c. Environmental Education/Docents

- 1) Formation of a docent group to provide interpretive talks, hikes and rides will be encouraged. If formed, the docent group will be organized and coordinated by the Parks and Recreation Department.
- 2) A brochure corresponding to labeled stops may be created for docent-guided tours along the forest trail (Segments J and K). A booklet on native plants and animals may be prepared and sold to support environmental education program costs.

d. Stable Facilities

If sufficient and appropriate land becomes available in close proximity to the Staging Area, then stable facilities, including an Arena, may be developed.

e. Old Mine

- 1) A steel security gate shall be constructed over the entrance to the mine to prevent unauthorized entry.
- 2) No entry to the mine shall be permitted until the mine is inspected by an engineering geologist or other qualified professional to determine if it is safe for entry, and any recommendations for reinforcement or other safety precautions are implemented.

f. Non-motorized Model Gliders

Subject to the terms and conditions imposed by the Land Trust, non-motorized radio-controlled model gliders may be allowed in designated areas within the Preserve.

**4. Facilities and Fixtures**

a. Restrooms

- 1) Restrooms shall be provided at the Preserve staging area, and at the group camping area.
- 2) Initially, restrooms shall be portable units, to be replaced by prefabricated toilet buildings with concrete holding vaults when funding permits.

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- 3) All temporary and permanent toilets shall be handicapped accessible.

b. Benches and Tables

- 1) Picnic tables shall be designed and installed to provide handicapped access.
- 2) Benches may be provided in the locations specified in Fig. 11 and Fig. 12. Generally, the number of benches should be limited to maintain a natural open space appearance.
- 3) Picnic tables and benches shall be of a consistent, rustic, heavy-duty design, constructed of wood or recycled plastic material.

c. Trash Receptacles

Trash/recycling receptacles will be provided at the staging area. They should be emptied regularly by the Caretaker or other responsible party to avoid attracting undesirable animals and/or animal activity.

d. Fences, Gates and Stiles

- 1) Fences near the staging area and group camp shall use smooth wire, rather than barbed wire, to avoid a hazard to young visitors.
- 2) Use split rail fence as required to delineate public use areas and direct trail traffic.
- 3) Install vehicle/cattle control gates at the locations shown on Figure 12. Vehicular gates shall be steel "Powder River" gates, or equivalent, minimum 12 foot width, on hinge posts set in concrete. Locks and chains shall be hardened steel.
- 4) Install trail stiles and gates at the locations shown on Figures 11 and 12. Stiles and gates shall be designed to allow passage of trail users while preventing the passage of cattle. "Block" stiles will be provided for pedestrian, bicycle and wheelchair access, and "three log" stiles or self-closing gates will be provided for equestrian access.

e. Signs and Maps

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- 1) A map board of approximately five feet high by four feet wide shall be provided at the Preserve staging area, to include a map of the preserve trails, Preserve policies and regulations, special events and notices, and a map box for a published map and brochure.
- 2) Informational and regulatory signs for the Preserve shall be constructed of durable material compatible with the natural setting (i.e. painted wood, painted aluminum, or recycled plastic).
- 3) Signs shall be of a consistent design, coloring and lettering style.
- 4) Necessary signs may include:
  - Preserve regulations
  - Trail names, segment letters and distances
  - Private property ahead: do not trespass
  - Preserve boundary plaques
  - Speed limits
  - Trail rights of way
  - Closed area (area closed for restoration)
  - Trail use signs
  - Informational and interpretive signs
  - Temporary signs for road and trail closures
- 5) Develop a map/brochure for the Preserve to show the designated trail system, resource and historical information, and basic policies and regulations (Fig. 11 may provide the basis for the map).
- 6) Develop a brochure for a self-guided tour along a forest trail to correspond to labeled stops.
- 7) Adopt names for the trails and geographic features for use on the maps, to replace or augment the alpha-numeric system used for the Management Plan.

**5. Internal Road/Trail Improvements**

Generally the existing road system provides good maintenance and visitor trail access. Construction of new roads must be limited to access and circulation in the staging area, per the terms of the conservation easement. All road and structural designs and specifications should be prepared by a qualified engineer; standards are provided in this Plan for guideline purposes only. New trail construction is limited to new connections or alignments for segments J and K.

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- a. Construct new trails using the following standards (refer to *California State Parks Trails Handbook* for additional design details):
  - 1) Flag proposed trail alignments and have them checked by a qualified resource management specialist prior to construction to confirm that sensitive resources will not be impacted.
  - 2) Construct trails with a tread width of 4 to 6 feet, depending on the cross-slope (narrower on steeper slopes).
  - 3) Typical maximum grade of trails should be 10%, but short stretches of 15 – 20% are acceptable if necessary. Avoid constructing switchbacks on visible slopes and steep slopes, if possible.
  - 4) Construct trails with cross-slope from 2 – 4% to the outside edge to avoid concentration of runoff.
  - 5) Install culverts at significant drainages, using details similar to road construction.

- b. Improvements to Existing Preserve Roads

Refer to *Handbook for Forest and Ranch Roads*, Mendocino County Resource Conservation District, and other references noted in the Bibliography for design details and standards.

- 1) Grade the road surface annually or as required to smooth the surface and correct drainage patterns.
- 2) Install rolling dips at regular intervals on new and existing roads to avoid concentration of runoff.
- 3) Install rock checks and willow plantings on banks at discharge of drain ditches and dips to prevent erosion in the locations noted in Part 3, in the Road Inventory and Assessment
- 4) Install new or improved culverts at the locations noted in Part 3, in the Road Inventory and Assessment

- c. Retaining Walls, Slope Protection

- 1) Adapt the slope retention methods indicated for creek banks under 5.b.5) where necessary to restore existing bank failures and

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protect the road or trail in the locations noted in Part 3, in the Road Inventory and Assessment.

- 2) For very steep banks, the geogrid, or live cribwall details may be adapted from the *Field Engineering Handbook, Chapter 16, Streambank and Shoreline Protection*, USDA, Natural Resources Conservation Service, 1996, pages 23 – 27.

d. Surfacing

- 1) If necessary to control erosion on steep road segments, install hardened surface of compacted, engineered-size bedded rock.
- 2) Based on availability of funding, provide an all-weather surface of a minimum of 4" of compacted base rock on the main canyon road (segments B and D).
- 3) Use compacted base rock to surface short segments of trail that tend to stay muddy when other trails have generally dried out.

e. Erosion Control

- 1) Prevent erosion along trails, gullies and roads by seeding disturbed areas with native annual seed mixes, and by planting native perennial ground cover and shrubs.
- 2) Protect disturbed areas with slopes over 20% with straw mulch, hydroseeded mulch or fiber mats until vegetation is re-established.

6. Vehicle Access and Circulation

a. Short-Term Access Route and Improvements

- 1) Secure agreement for use of one or more of three alternative routes for short-term access to the site (see Figure 8). All three alternatives involve crossing and making road improvements on land owned by Jaeger Vineyards and Jack and Bernice Newell.
  - The current access via Napa Junction Road, which crosses through the switchyard of the California Northern Railroad at a private crossing.
  - South Napa Junction Road, which crosses a single track at a private crossing approximately ½ mile south of Napa Junction

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Road and leads to an equipment storage area and an old quarry owned by Jaeger Vineyards.

- Watson Lane, which is a public road crossing of a single track approximately a half mile north of Napa Junction Road.
- 2) Improve roads used for public vehicular access with a surface of a minimum of 4" of compacted base rock over compacted native soil.
  - 3) The minimum interim improved road width shall be 12 feet
  - 4) Construct improved turnouts at intervals of no less than 500 feet along the access road to allow vehicles to pass. Turnouts shall be a minimum of 8 feet wide and 20 feet long, plus transitions.
- b. Long-Range Access Route and Improvements
- 1) Use the Flosden Road extension for public access to the site when it is developed as indicated on Figures 5, 6, and 8.
  - 2) When funding permits, improve roads used for public vehicular access to an all weather surface of a minimum of 3 inches of asphaltic concrete (a.c.) over 6 inches of compacted base rock over compacted native soil.
  - 3) Minimum improved road width shall be 20 feet, plus shoulders.
  - 4) As part of long-range road improvements, place barriers to prevent vehicle access off the access road, consisting of heavy-duty split rail, telephone poles, steel bollards, A.C. or concrete curbs or other substantial barrier.
- c. Parking Area and Vehicular Circulation

- 1) Construct or improve roads for public and service vehicle access (segments A, C, and staging area circulation) with a minimum width of 20 feet and an improved surface of a minimum of 6 inches of compacted base rock over compacted native soil. When funding permits, the surface shall be improved to a minimum of 3 inches of asphaltic concrete (a.c.) over 6 inches of base rock.
- 2) Develop parking spaces for 12 cars (minimum space 8.5' by 18') and three pull-through horse trailers spaces (minimum space 11' by 30') at the Preserve staging area, generally in the configuration shown in Fig. 12. At least two spaces shall be

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Print Date: 2/6/2002

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designed and signed for handicapped access. Trailer spaces can each accommodate two cars as head-in parking when not needed for trailers. Ultimately the parking may be expanded as noted on Figure 12 and in Part 3.

- 3) Surface the parking area and roads initially with 6 inches of compacted base rock over compacted native material.
- 4) Delineate individual parking spaces using half-buried peeler cores, or plastic street reflectors, staked in place. Use telephone pole, log, recycled plastic or concrete wheel stops, staked in place.
- 5) As part of long-term improvements, when funding permits, the parking and road surface shall be improved to a minimum of 3 inches of asphaltic concrete (a.c.) over 6 inches of base rock. Parking spaces shall be delineated with painted stripes and markings.
- 6) As part of long-term improvements, when funding permits, provide barriers to prevent vehicle access beyond the parking area and access roads, consisting of heavy-duty split rail, telephone poles, steel bollards, A.C. or concrete curbs or other substantial barrier.

d. Bridge

A recycled rail car vehicular bridge shall be placed across the creek in the location indicated on Figure 12, Staging Area Improvements. The bridge will be founded on undisturbed native soil. The bridge will be fitted with both vehicular bumpers or guardrails and pedestrian railings.

**7. Barn Use and Improvements**

a. General Use and Improvement Program

The existing barn shall be repaired and improved to provide space for environmental interpretation, storage of tools and materials, and potentially a shaded area for resting and picnicking.

b. Roof Replacement

The damaged barn roof shall be replaced with similar corrugated aluminum material.

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c. Structural Improvements

- 1) A qualified engineer shall evaluate the structure and prepare plans for stabilization and improvement.
- 2) Barn structural members and foundation shall be replaced and reinforced as required to stabilize the structure.
- 3) Barn siding shall be repaired or replaced and additional weathered siding used to enclose the central bay for storage.
- 4) As part of long-range improvements, when funding permits, existing deteriorated concrete pads on either side of the barn shall be removed and replaced with new pads – a minimum of 4" concrete on 4" compacted base rock. The central bay of the barn may be improved by installation of concrete pad, plywood walls and ceiling, lighting and electrical systems (this will be necessary if valuable equipment and materials will be stored in the barn, and/or it is to be used as a base for significant resource management or environmental education efforts, as discussed below).

d. Environmental Education

If an environmental education program is developed, use the barn as a location for exhibits of Preserve and regional history and ecology. If exhibits are simple and relatively weather and vandal-proof, they can be mounted on the outsides of the proposed enclosed central bay. As a long-range project more complicated or fragile exhibits could be stored and/or exhibited inside the improved central bay.

e. Storage

The central bay of the barn may be used for storage of equipment and materials, depending on the need and level of improvement, as discussed above. As a long-range project, if the barn is ultimately used for significant environmental education activities, a separate storage building may be needed.

**8. Utilities and Services**

a. Water

- 1) A water meter will be installed and a 4" to 6" water line extended along the main access road from the existing City of Vallejo water

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main at approximately the Newell residence driveway to the Preserve staging area/caretaker's residence. A fire hydrant will be installed near the barn and caretakers residence.

- 2) A lateral water line approximately 1 1/4" dia. will be extended from the new water main near the staging area to the group hike-in camp and to nearby water troughs to be developed for cattle (see Grazing Management Plan).
- 3) Basic water faucets (with auto-shutoff) and drinking fountains, consisting of standpipes with backing post and rock drain areas, will be installed at the barn/staging area and the hike-in camp.

b. Electrical and Phone Service

- 1) Electrical and telephone service will be extended to the caretaker's residence and the barn on overhead lines along the main access road from the existing pole at the Newell driveway.
- 2) As an alternative or supplement to electrical service, the City may consider installation of wind and/or solar energy systems.
- 3) A pay phone may be provided at the staging area when public use levels warrant.
- 4) As part of long-range improvements, when funding permits, electrical and phone service will be installed underground.

**9. Caretaker's Residence**

a. Size and Location

- 1) A caretaker's residence of up to 2000 square feet may be developed in the area specified in Figure 12.
- 2) The caretaker's residence improvements within the designated yard area of approximately 10,000 square feet may include parking, deck or patio area(s), garden and landscape areas.
- 3) Additional structures may include a garage/storage building of up to 400 square feet, and a propane tank and enclosure.

b. Site Improvements

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- 1) A septic system will be developed for the caretaker's residence, generally in the area designated on Figure 12.
- 2) The residence drive and parking area shall be improved initially with a base rock surface, and ultimately paved, as per other roads and parking.
- 3) The residence and yard may be fenced and screened for privacy with native landscaping, smooth wire and/or rustic wood fencing.
- 4) Landscaping shall be drought tolerant, fire resistant native species except in designated garden areas.

**10. Public Access and Use**

a. Initial Public Use

Initial public access and use will be limited due to problems associated with access to the site, and limited staffing (both paid and volunteer). As these constraints are removed, greater public participation should be expected and encouraged. On the other hand, the Preserve may be closed during inclement weather, such as during the winter months.

b. Coordination with Lynch Canyon Open Space Preserve

Because the Preserve is adjacent to the Lynch Canyon Preserve, public access should be coordinated between the two sites. For example, if Lynch Canyon is open to the general public one weekend per month, then Newell Open Space Preserve should be opened the same weekend. Joint access and use agreements should also be executed between the two entities to facilitate a cooperative working relationship.

c. Other Public Access Opportunities

The Preserve should also be open to the general public during any organized event or activity sponsored or co-sponsored by the City. Use of the Preserve at any other time would be by arrangement with the City's Community Services Department.

d. Public Use of the Staging Area

The Staging Area is intended to accommodate the greatest level and intensity of public uses, such as BBQ's and picnics, special events, or

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educational meetings/activities. Beyond the Staging Area, however, more passive uses, such as hiking or horseback riding, are intended.

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Section C: Site Management

1. Patrol and Public Safety

a. Caretaker Role

- 1) The Caretaker shall be responsible for opening and closing gates, basic maintenance, informing visitors of Preserve policies and regulations and encouraging compliance, monitoring resource conditions, public use and grazing activities, and coordinating with the City (see C.2.a. for additional detail).
- 2) The Caretaker shall be entitled to quiet use of the designated residence area.

b. Volunteer Patrol

- 1) Formation of a volunteer patrol for the Preserve shall be encouraged. The patrol may include members from any of the permitted Preserve user groups.
- 2) The volunteer patrol may be organized and managed by the City parks and Recreation Department or by the Caretaker. However, management of the volunteer patrol shall not be a requirement of the Caretaker position.
- 3) The volunteer patrol shall be responsible for observing conditions, informing visitors and encouraging compliance with Preserve policies and regulations.
- 4) Volunteer patrol members will be instructed in Preserve natural and cultural history, regulations and policies, basic trail and outdoor safety, first aid, CPR and techniques of public contact.

c. Policies and Regulations

- 1) Policies for management of the preserve shall be as defined in this Management Plan.
- 2) Specific Preserve regulations shall be developed and adopted by the City, sufficient to allow enforcement by designated officers. Necessary regulations may include:
  - Preserve hours of use

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- Consumption of alcoholic beverages
- Protection of natural and cultural resources (killing or harassing wildlife, collection of plants or rocks, etc.)
- Prohibition of fires, smoking, fireworks, and firearms
- Speed limit for vehicles, bikes, and horses (15 mph suggested)
- Prohibition of use off designated trails or entry into closed areas
- Prohibition of dogs and other animals
- Prohibition of camping outside designated areas

d. Law Enforcement

- 1) If the Caretaker is a sworn public officer, the Caretaker may directly enforce regulations as part of their duties, subject to the specific provisions of the Caretaker agreement.
- 2) The American Canyon Police Department and the Napa County Sheriffs Department will provide law enforcement service to the Preserve.
- 3) Long-term use levels of the Preserve in conjunction with use and development of the adjacent Lynch Canyon Preserve and other nearby lands may warrant consideration of a cooperative agreement to share professional ranger staff.

e. Fire Protection

The American Canyon Fire Protection District will provide fire protection services for the Preserve, in coordination with the California Division of Forestry.

**2. Property Management and Maintenance**

a. Basic Site Management Tasks

Chapter Three of the Management Plan provides an Action Plan, Cost Estimate and Funding Strategy for basic improvements to the Preserve. In addition to managing the planning and completion of these public access and resource management projects and arrangements, there will be many ongoing responsibilities for operation and management of the Preserve. Although volunteers can provide a great deal of assistance, staff will need to take the primary responsibility for these tasks.

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Based on staffing levels of other Bay Area regional park and open space agencies, tasks to manage this Preserve will occupy at least the equivalent of a full-time position, plus support on accounting, public information materials, and overall property management and policy direction. Site management tasks will tend to require more than full-time attention in the summer, and less in the winter. Time demands will tend to be heaviest on weekends and in the afternoon during summer.

It is not feasible for a caretaker with other employment to accomplish all these management tasks. Therefore, responsibilities should be assigned to City staff and arrangements for carrying them out should be made well in advance of full public access and use.

- 1) Patrol and monitor the site for resource protection, public safety, and education and enforcement of policies and regulations, and to facilitate visitor enjoyment.
- 2) Maintain the trail and road surface and drainage structures, including annual grading, surface prep and drain clean-out
- 3) Check and clear road and trail drainage systems before, during and after storms.
- 4) Plan, organize and coordinate projects for resource management and facilities construction or improvement, including volunteer participation.
- 5) Coordinate resource monitoring and studies.
- 6) Clean-up litter and remove trash.
- 7) Control poison oak and encroaching vegetation along trails.
- 8) Clean, maintain and repair facilities and fixtures.
- 9) Monitor cattle grazing operations and coordinate with grazing tenants, potentially assist with maintenance of fencing and water supply.
- 10) Coordinate public use, such as group reservations for camping and picnicking, and special events, collection of parking fees.
- 11) Post maps, brochures and special information.

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- 12) Maintain basic equipment and ordering and stocking supplies.
- 13) Pay bills and manage service and supply contracts (i.e. restroom pump-out).
- 14) Organize, coordinate and support environmental education docents and volunteer trail patrol groups.

b. Caretaker Agreement

- 1) A written agreement shall be developed between the Caretaker and the City specifying respective responsibilities, investments, private use areas and limits, and other terms as appropriate.
- 2) The agreement shall specify duties and the number of hours during various seasons and time periods the Caretaker is to spend actively managing or patrolling the Preserve.

c. Agreements with Adjacent property Owners and Easement Holders

- 1) Prepare a memorandum of understanding with the Solano County Farmlands and Open Space Foundation regarding respective use and management polices and procedures, and methods for communication and coordinating.
- 2) Develop an agreement with PG&E (or other future owner of utility lines) regarding arrangements for notification of utility work, restoration of any impacts on the Preserve, and sharing of responsibility/costs for road maintenance and repair.
- 3) Resolve arrangements and legal rights for access and extension of utilities, and new boundary fencing with Jack and Bernice Newell, Jaeger Vineyards, and other adjacent property owners if applicable.
- 4) Maintain contact with other adjacent property owners who share boundaries and may hold easements over the Preserve. Clarify respective rights and expectations.

**3) Revenue Generation Opportunities and Arrangements**

a. Donations

- 1) Donations for the improvement and management of the Preserve will be encouraged. The Trust may act as conduit for donations,

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or a separate non-profit organization may be designated or created to receive donations. It may be desirable to install an "iron ranger" payment box on site to handle donations from visitors.

- 2) Donations will be directed toward projects and purposes identified in this Management Plan unless specifically desired by the donator and determined by the City and the Trust to be consistent with the policies of this Plan.

b. Cattle Grazing Lease

Prepare a new grazing lease to reference the management practices, standards, and arrangements of the Grazing Management Plan. The lease shall be administered by the City of American Canyon City Manager or his designee. The lease shall be reviewed and approved by the Land Trust of Napa County

c. Land Trust Approval

Third party uses or events will be subject to approval of the Land Trust, per the terms of the conservation easement.

d. Communications Leases

Consider communication facility site leases as a revenue source, provided they can be designed and sited to avoid impact on resources and preserve users. Communication leases can be a significant source on revenue for operation and maintenance (a communication facility lease on the Lynch Canyon Preserve generates \$10,000 per year).

e. Other Agricultural Uses

Agricultural use other than grazing is specifically prohibited by the Conservation Easement.

f. Other Commercial Use and Special Events

Commercial filming and photography is sometimes proposed, or occurs without permission, on open space preserves. Special events may be commercial or social activities, and may include running, bicycling, orienteering, and equestrian races and rallies.

- 1) Require permits for all commercial use and special events (defined as an advertised or organized event involving 10 or more

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persons). Require sufficient information as part of the permit application to determine that the use is compatible with the open space status of the Preserve.

- 2) Charge commercial use and special events fees to cover the cost of staff time to ensure that the impacts on resources and other users are avoided.

g. Grants

Research grant programs, and apply for and follow-up on specific grants. Grants are expected to be an important source of funding for the improvement and management of the Preserve, although basic operation and maintenance costs will be borne by the City. Management projects are matched with specific potential grant sources in Part Three of this Management Plan.

h. City of American Canyon Financial Resources

Use of the City's General Fund (or other City taxes, fees and revenues) may be used, but should be limited to those facilities and services that are essential to allow public access to the site or for health and safety reasons. Generally, City funds should be used to leverage grants and other outside funds as much as possible.

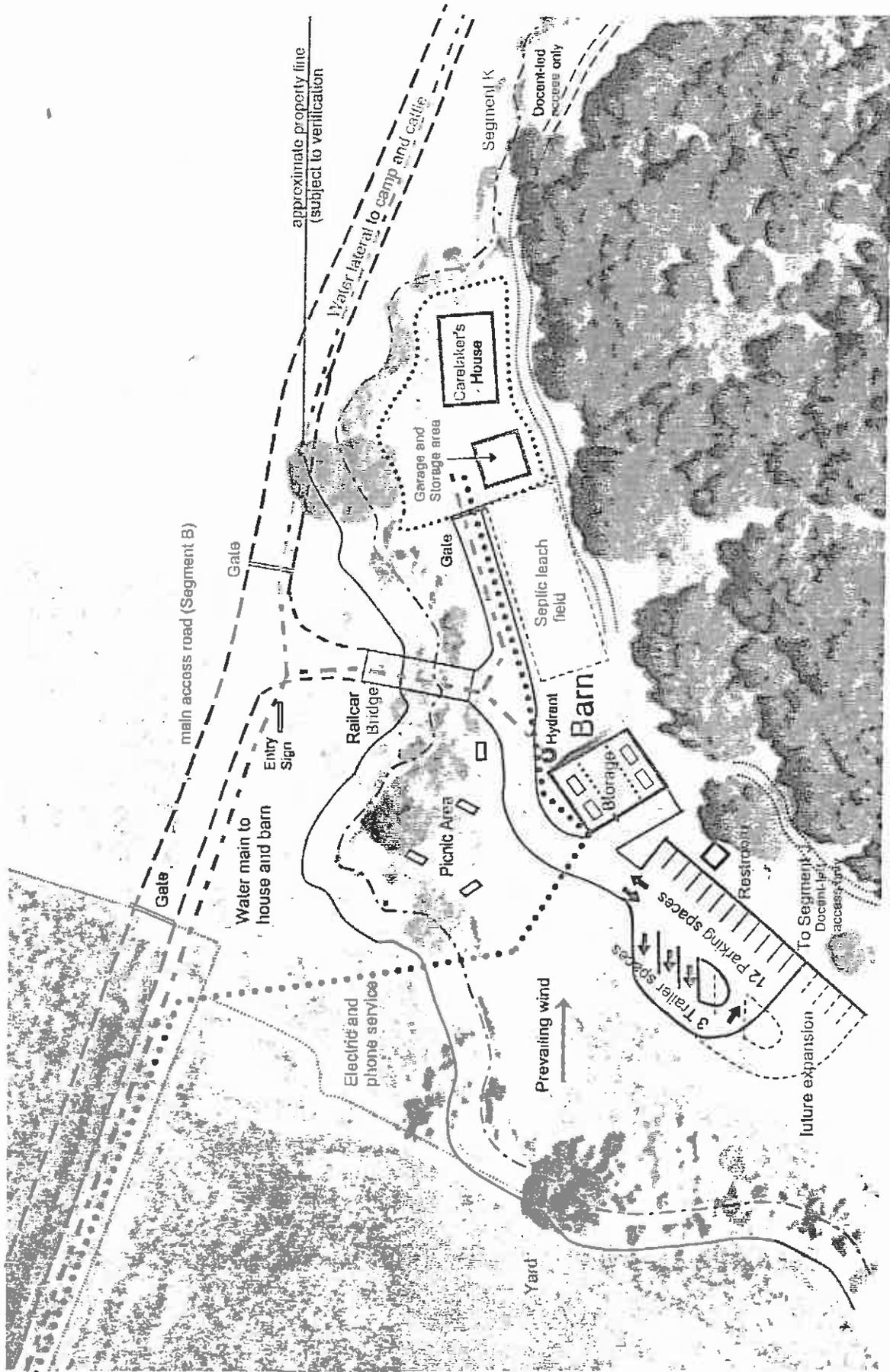
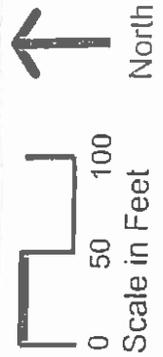


Figure 12  
Staging Area Site Improvements



**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
PART THREE: PLAN SUMMARY AND ESTIMATE**

**Overview**

This summary and estimate table covers the key steps and expenditures to implement the Use and Management Program outlined in Part Two. The detail of each proposed project or improvement is contained in the referenced paragraph in Part Two. Detail for the internal road improvement costs is contained in the Road Inventory and Assessment Tables. **This summary is not intended to be a specific plan or accurate estimate for implementation, but a tool for future planning and decision-making.**

These estimated costs are very general, as most of the projects are only conceptually defined, and costs are highly variable depending on how and when the project is undertaken. The costs should be considered "placeholder" amounts for budgeting subject to development of more specific plans, estimates and bids.

Specifications, standards and details for most of the fixtures and improvement projects may be found in the reference documents from other park and open space agencies listed in the Bibliography. A copy of these documents has been provided to the City and the Trust in conjunction with this Management Plan.

The "Initial" stage of projects and costs defined in the Summary is the assumed desirable "baseline" of improvements and facilities to open the Preserve to regular public use and begin to actively manage the resources. This stage may take more than one year to accomplish. The total estimated cost for the initial stage of improvement is approximately \$861,000 for one-time capital costs, plus approximately \$6,000 annually for equipment, supplies and other operating costs.

The "Long Term" stage of projects and costs defined in the Summary is the assumed ultimate extent of improvement and facilities to accommodate public use and efforts to restore and protect the resources. The estimated total long-term improvement cost is approximately \$1,063,000 to \$1,393,000 for one-time capital costs, plus approximately \$20,000 annually for equipment, supplies and other operating expenses.

These costs are in 2001 dollars and should be adjusted for inflation when projecting into the future. These costs do not include the cost for staff time spent in planning, improving, and operating the site. These costs will be partly offset through grazing lease revenues, and through potential participation by the caretaker in the cost of developing the caretaker residence. Many of these costs may be funded through grants, including some which have already been awarded or submitted (the proposed USDA grazing management improvements grant is reflected in the costs, for example). Application for and administration of grant projects is an important part of the ongoing management program.

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
PART THREE: PLAN SUMMARY AND ESTIMATE**

**Vehicle Access and Circulation Improvement Estimate Notes**

Improvements to existing access roads and construction of a new road and parking areas for the public and the caretaker residence are a significant part of the initial and long-term costs. These notes provide greater detail on the calculations and assumptions made for these estimates.

**I. Initial road and parking design**

The proposed initial road width is 12', plus turnouts as noted. The existing road, route, or site would be stripped, ripped, and graded for compaction and positive drainage (roadside ditches). The overall budget and contingency is also expected to cover a number of culverts under the road. The proposed surface is 6" of compacted base rock (Caltrans Class II aggregate base).

**A. Initial access road improvements:**

1. From end of Watson Lane to new bridge on Newell Preserve:  
approx. 12,350 lineal feet (l.f.) x 12' wide = 148,000 square feet (s.f.)
  2. Turnouts for above road at 500' intervals: (each turnout 8' wide x 20' long plus transitions 16' long = 288 s.f. per turnout) x 24 turnouts  
= 6,912 s.f.
- Total s.f. = 154,912 @ \$1.50 per s.f. = **\$232,368**

**B. Initial parking and circulation improvements:**

1. Access road from bridge to parking and caretaker's residence:  
approx. 450 l.f. x 12' wide = 5,040 s.f.
  2. Turn aprons: approx. 650 s.f. per set x 2 sets = 1,300 s.f.
  3. Caretaker's parking/turnaround: approx. 50' x 50' = 2,500 s.f.
  4. Parking area for 12 cars, 3 trailers: approx. 90' x 120' = 10,800 s.f.
- Total s.f. = 19,640 @ \$1.50 per s.f. = **\$29,460**

Total Initial road and parking improvements cost (A+B) = **\$261,828**

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PART THREE: PLAN SUMMARY AND ESTIMATE**

**II. Long-term road and parking design:**

The proposed long-term road width is 20'. The additional road, route, or site would be stripped, ripped, and graded for compaction and positive drainage (roadside ditches). The overall budget and contingency is also expected to cover a number of culverts under the road. The proposed surface is 3" of asphaltic concrete (a.c.) over 6" of compacted base rock (Caltrans Class II aggregate base). The roads and parking would have a.c. curbs or rustic split rail barriers as noted. If curbs are constructed, openings must be provided at regular intervals to allow the road and parking areas to drain.

Two scenarios are estimated for the required grading and base rock:

1. Assume initial base rock road and parking is in good condition, can be used for expanded road and parking.
2. Assume initial base rock road and parking cannot be used and entire road and parking area must be built from scratch. In this case the old base rock would be ripped, stripped and re-compacted as part of the sub-base of the new road.

**A. Long-term access road improvements:**

20' wide paved road from future Flosden Road Extension to bridge on Newell Preserve: approx. 3,650 l.f.

1. Grading and base rock Scenario 1:

Additional grading and base rock: 3,650 l.f. x 8' wide  
= 29,200 s.f. @ \$1.50 per s.f. = \$43,800

OR

2. Grading and base rock Scenario 2:

All new grading and base rock: 3,650 l.f. x 20' wide  
= 73,000 s.f. @ \$1.50 per s.f. = \$109,500

3. A.C. paving (same in either case): 3,650 l.f. x 20' wide

= 73,000 s.f. @ \$1.50 per s.f. = \$109,500

4. A.C. curbs on both sides of road: 3,650 l.f. x 2

= 7,300 l.f. @ \$4.00 per l.f. = \$29,200

Total cost for scenario 1: (1 + 3 + 4) = \$182,500

Total cost for scenario 2: (2 + 3 + 4) = \$248,200

NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
PART THREE: PLAN SUMMARY AND ESTIMATE

B. Long-term parking and circulation improvements:

20' wide paved access road from bridge to parking and caretaker's residence: approx. 450 l.f., plus parking areas as noted.

1. Grading and base rock Scenario 1:

a. Additional grading and base rock for road:  
450 l.f. x 8' wide = 3,600 s.f.

b. Parking area size doubled to 24 cars, 6 trailers: add approx.  
90' x 120' additional grading and base rock = 10,800 s.f.

Total additional grading and base rock  
= 14,400 s.f. @ \$1.50 per s.f. = \$21,600

OR

2. Grading and base rock Scenario 2:

a. All new grading and base rock for road: 450 l.f. x 20' wide  
= 9,000 s.f.

b. Turn aprons: approx. 650 s.f. per set x 1 set = 650 s.f.

c. Caretaker's parking/turnaround: approx. 50' x 50' = 2,500 s.f.

d. Parking area size doubled to 24 cars, 6 trailers:  
total approx. 90' x 240' = 21,400 s.f.

Total additional grading and base rock  
= 33,550 s.f. @ \$1.50 per s.f. = \$50,325

3. A.C. paving (same in either case):  
= 33,500 s.f. @ \$1.50 per s.f. = \$50,250

4. A.C. curbs for road and parking:

a. A.C. curbs on both sides of road: 450 l.f. x 2 = 450 l.f.

b. A.C. curbs around parking areas: = 760 l.f.

Total A.C. curbs = 1,660 l.f. @ \$4.00 per l.f. = \$6,640

Total cost for scenario 1: (1 + 3 + 4) = \$78,490

Total cost for scenario 2: (2 + 3 + 4) = \$107,215

**NEWELL OPEN SPACE PRESERVE MANAGEMENT PLAN  
PART THREE: PLAN SUMMARY AND ESTIMATE**

C. Long-term all-weather base rock surface to top of ridge/Lynch Canyon:

1. From new bridge on Newell Preserve to ridge (segments B and D)  
approx. 7,700 lineal feet (l.f.) x 12' wide = 92,400 s.f.

2. Turnouts for above road at 1000' intervals: (each turnout 8' wide x 20'  
long plus transitions 16' long = 288 s.f. per turnout) x 8 turnouts  
= 2,304 s.f.

Total s.f. (1 + 2) = 94,704 @ \$1.50 per s.f. = **\$142,056**

Total long-term road and parking improvements cost (A + B + C):

Scenario 1 = **\$403,046**

Scenario 2 = **\$497,471**

## Newell Open Space Preserve - Maintenance Plan Summary/Estimate

(Specific work items are contained in Part 2)

Report Reference	Item	Work Scope	Approximate Initial Cost (year 2001 \$)	Approximate Long term Improvement Costs (year 2001 \$)	Who is Responsible	Who will Support	Funding sources
<b>Section A</b>	<b>RESOURCE PROTECTION and RESTORATION</b>						
A1	Basic Vegetation and Wildlife Management	Annual allowance for seeds, pesticides	\$1,000 (annually)	\$5,000 (annually)	Caretaker	Volunteers Parks and Rec.	Grants Donations
A1a, A2a	Detailed Management Plan	Prepare specific plan and program for restoring streams, native vegetation		In consultant cost factor, end of estimate	Trust, City	Dept. Fish and Game, CALFED, etc.	Grants
A3, B7d	Cultural Resources (also addresses Environmental Education, B7d)	Exhibits and materials (any site assessments funded in conjunction with other projects)		\$5,000 to \$10,000 (+\$500 annually)	Parks and Rec.	Volunteers	Private donations and grants
A4a-e, A5 p 2-17	Geology, Soils and Hydrology	Creek and drainage restoration program. 5,000 lineal feet @ \$50 to \$80 per lineal foot.		\$250,000 to \$400,000	Trust, City	Environmental agencies Volunteers	Grants
A5 (Costs)	Grazing Management Water and Cross Fencing Perimeter Fencing	30% match for grant (70% = \$22,386)	\$6,716 \$5,000	\$20,800	Caretaker, Lessees	NRCS Volunteers	USDA grant
		<b>Subtotal one time costs</b>	<b>\$11,716</b>	<b>\$275,800 to \$435,800</b>			
		<b>Subtotal annual costs</b>	<b>\$1,000</b>	<b>\$5,500</b>			
<b>Section B</b>	<b>SITE USE and IMPROVEMENT</b>						
B1, B2	Designate Trails and Trail Uses	No costs			Parks & Rec. Commission	Volunteers	
B3a-d	Designate Use Area, Programs	No costs, or are in other categories			Parks & Rec. Commission	Volunteers	
B3f	Old Mine Tunnel	Security gate for mine	\$500		Caretaker	Public Works	

## Newell Open Space Preserve - Maintenance Plan Summary/Estimate

(Specific work items are contained in Part 2)

Report Reference	Item	Work Scope	Approximate Initial Cost (year 2001 \$)	Approximate Long term Improvement Costs (year 2001 \$)	Who is Responsible	Who will Support	Funding sources
B4	<b>Facilities and Fixtures</b>						
B4a	Restrooms: H.C. Accessible	Initially 2 rented portables Long term pre-fab vault units 2 @ \$25,000 ea.	(annually) \$1,800		Public Works Department	Consultant(s) Contractors	Grants General Fund
B4b	Picnic Tables	Long-term 8 for staging area 3 for camp @ \$1200 ea. Long term 12 @ \$500 ea.	\$6,000	\$50,000	or Parks and Rec.		
B4b	Benches	2 for staging area		\$7,200			
B4c	Trash Receptacles	12' steel: 7 @ \$1500 ea.	\$10,500				
B4d	Vehicle Gates	Hiker/H.C.access: 2 @ \$500	\$1,000				
B4d	Trail Gates, Stiles, per standard details	Mull-use: 2 @ \$1000 ea.	\$2,000				
		<b>Subtotal one time costs</b>	<b>\$19,500</b>	<b>\$57,200</b>			
		<b>Subtotal annual costs</b>	<b>\$1,800</b>				
B4e	<b>Signs, Maps, Brochures Main Entry Signs</b>	Allowance	(annually) \$1,000	(annually) \$200	Parks and Rec.	Volunteers	Donations?
B5	<b>Internal Road and Trail Improvements</b>	See detail in Road Assessment	\$13,000 critical items	\$52,700 other items	Public Works	Consultants, Contractors. Carelaker	Grants General Fund
B6	<b>Vehicle Access/Circulation</b>	See Access & Circulation Estimate Notes					
B6a	Short Term Access	End Watson Lane to new bridge: 12' wide w/ 8' wide turnouts every 500'	\$232,368	\$182,500 to \$248,200			
B6c	Short Term Parking Area (same as above)	From bridge to parking areas for public and carelaker	\$261,868	\$78,490 to \$107,215	Public Works	Consultants, Contractors. Carelaker	Grants General Fund
B6b	Long Term Access	Future Flosden Road to bridge, 20' wide w/ curbs					
B6c	Long-Term Parking Area	Pave and double size of public parking area					
B6d	3" a.c. on 6" base rock Railcar Bridge	w/bumpers and guardrails	\$30,000				
B5d	All-weather road to ridge	6" base rock w/turnouts		\$142,056			

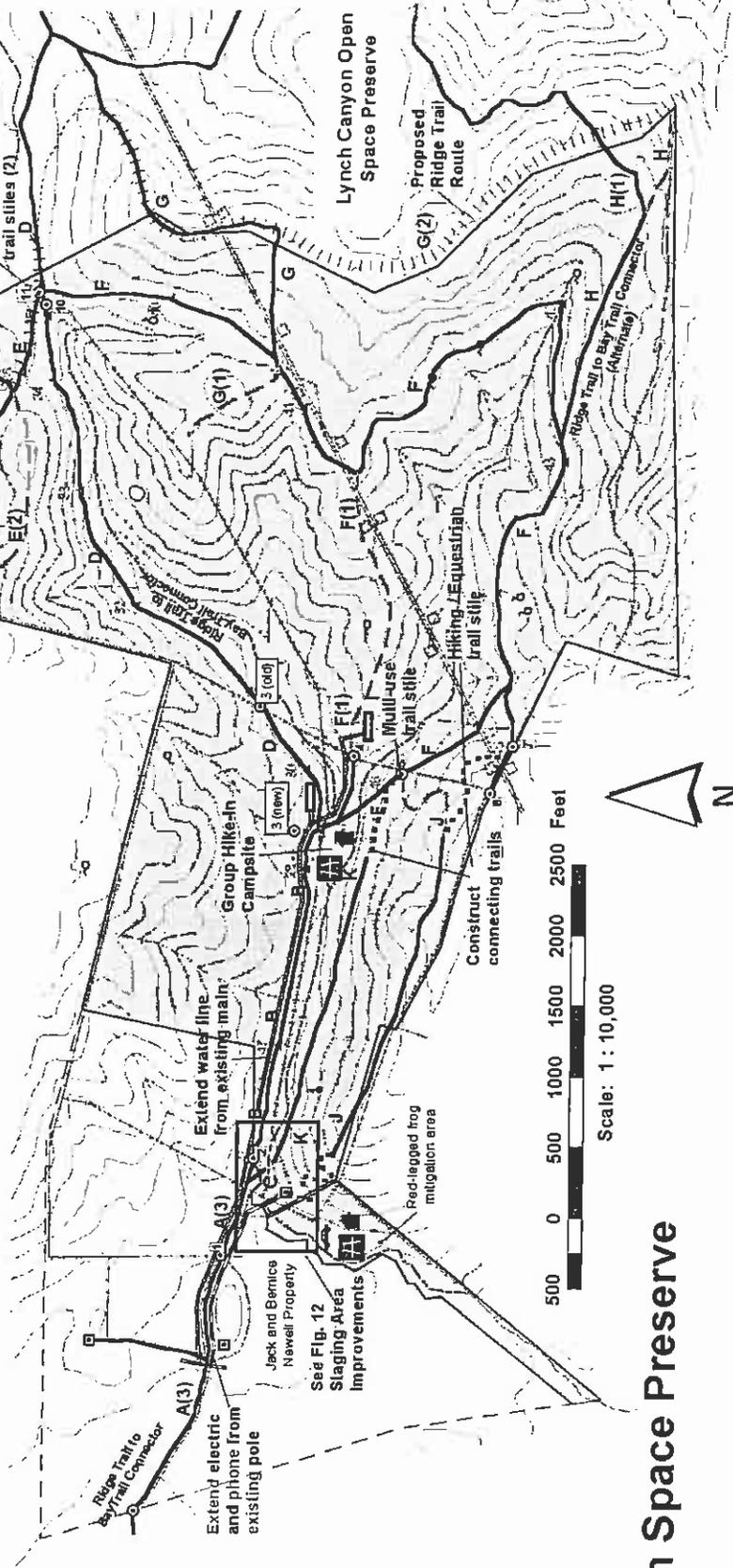
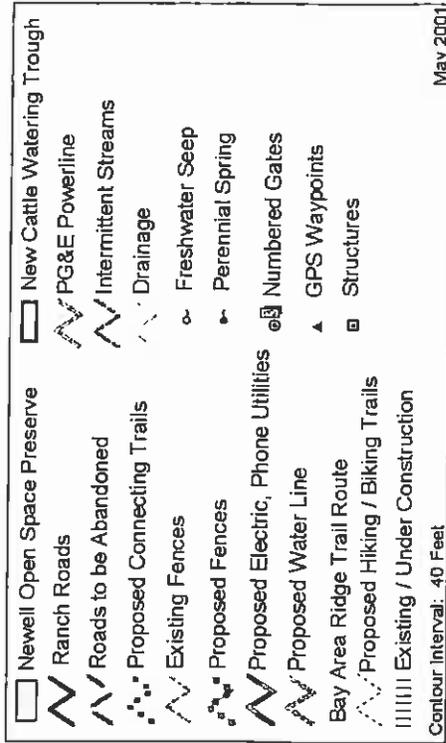
**Newell Open Space Preserve - Management Plan Summary/Estimate**  
 (Specific work items are contained in Part 2)

Report Reference	Item	Work Scope	Approximate Initial Cost (year 2001 \$)	Approximate Long term Improvement Costs (year 2001 \$)	Who is Responsible	Who will Support	Funding sources
B6	Vehicle Access/Circulation (continued)	Subtotal one time costs  Subtotal annual costs	\$524,236 Road maintenance	\$403,046 to \$497,471 \$2,000			
B7	Barn Use and Improvements	Replace roof and reinforce structure Enclose bay, add electrical, lighting, concrete pads	\$5,000		Public Works	Consultants, Contractors, Caretaker	Grants General Fund Donations
B8	Utilities and Services	Connection/permit fees Backflow preventer 4" main: 1850 l.f. @ \$20/l.f. 3 - 1" water meters for barn, house, and camp/cattle 1 1/4" water lines to barn, house: 400 l.f. @ \$2/l.f. Fire hydrant at Staging Area 1 1/4" line (cost is included in grazing management) At barn, house and camp (3) Extend on poles approx. 1850 l.f. to barn and house Subtotal one time costs	\$1,000 \$5,000 \$27,000 \$3,000 \$800 \$2,000 \$3,000 \$18,500 \$60,300		Public Works	Consultants, Contractors, Caretaker	General Fund
B8a2	Extend water to group camp and pastures						
B8a3	Faucets/Drinking Fountains						
B8b	Electric, phone service						
B9	Caretaker's residence	Pre-fab unit < 2000 s.f. Approx. 20' x 20'	\$100,000 \$20,000 \$2,000 \$20,000		Public Works	Consultants, Contractors, Caretaker	General Fund Caretaker
B9a1	House, pad, and foundation						
B9a3	Garage/ storage building						
B9b	Propane tank, enclosure Septic system Drive/parking Fencing and Landscaping	Cost included in on-site circulation Allowance Subtotal one time costs	\$5,000 \$147,000	\$0			

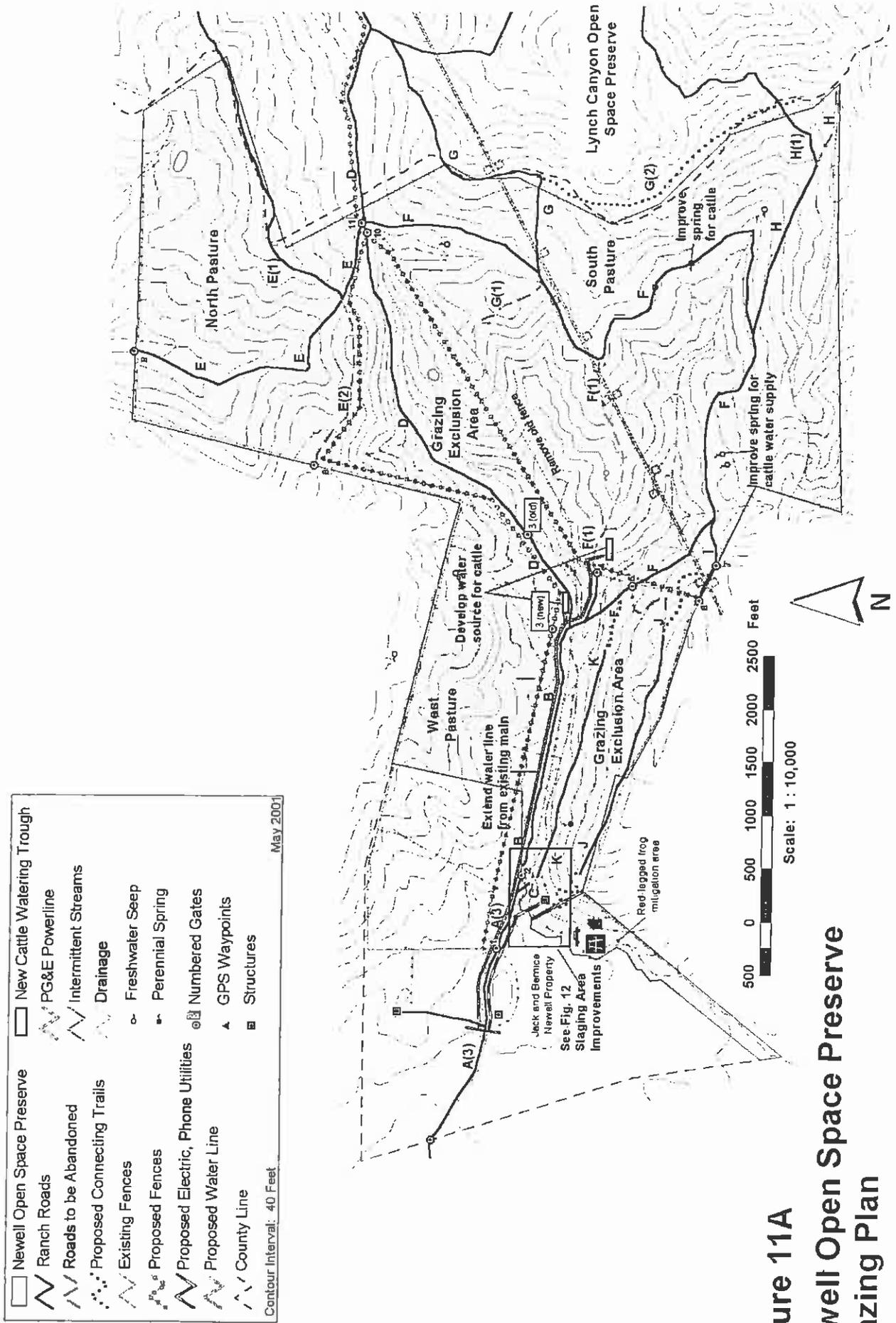
## Newell Open Space Preserve - Management Plan Summary/Estimate

(Specific work items are contained in Part 2)

Report Reference	Item	Work Scope	Approximate Initial Cost (year 2001 \$)	Approximate Long term Improvement Costs (year 2001 \$)	Who is Responsible	Who will Support	Funding sources
Section C	<b>SITE MANAGEMENT</b>						
C1b	Volunteer Patrol		\$1,000 (annually)	\$5,000 (annually: based on level of effort)	Caretaker	Parks and Rec.	Donations,
C1, C2	Patrol and public safety, property management and maintenance, Site management, equipment and supplies	May need personnel in addition to caretaker Allowance	\$? Annually Depends on level of use \$1,000 (annually)	\$? Annually Depends on level of use \$5,000 (annually)	City City	Volunteers Donations	Fund Raisers General Fund General Fund Grants
		<b>Subtotal annual costs</b>	<b>\$2,000</b> Plus staff time	<b>\$10,000</b> Plus staff time			
	<b>OVERALL COST SUMMARY</b>						
			<b>\$783,252</b>	<b>\$803,746</b> <b>\$1,053,171</b>			
		up to					
		up to	<b>\$117,488</b>	<b>\$120,562</b> <b>\$157,976</b>			
		up to					
		up to	<b>\$900,740</b>	<b>\$924,308</b> <b>\$1,211,147</b>			
		15% of One Time Costs	<b>\$135,111</b>	<b>\$138,646</b> <b>\$181,672</b>	Public Works & Parks and Rec	Consultants, Contractors	General Fund
		One Time Costs up to	<b>\$1,035,851</b>	<b>\$1,062,954</b> <b>\$1,392,819</b>			
		Annual Costs	<b>\$5,800</b> Plus staff time	<b>\$19,700</b> Plus staff time			



**Figure 11**  
**Newell Open Space Preserve**  
**Site Plan**



**Figure 11A**  
**Newell Open Space Preserve**  
**Grazing Plan**

# Newell Open Space Preserve Management Plan - Road Inventory and Assessment

5/10/01, Bruce Randolph Anderson & Associates

**Terms:**

- Willow Erosion Control Plantings = bedded cuttings or live stakes
- Rock Check = engineered size rock energy dissipator
- Rock Toe or Slope Reinforcement = stacked engineered size large rock, 1st course bedded at least 1/2 below grade

**Notes:**

1. This inventory and assessment is for general planning purposes only. All recommendations and costs should be subject to review and development of specific plans and estimates by qualified engineers or contractors.
2. See list of design and construction reference documents for more detail on recommended treatments.
3. Total of all costs is \$56,400 to \$65,700, which assumes work is combined as part of large projects and completed primarily with in-house labor, supplemented by contractor and volunteer assistance and some rented equipment. Market rate contractor costs would be substantially higher.

**Note:** GPS points begin at 26

GPS Point	Approx. Location	Description	Photo	General Recommendation	Approx. Cost: See Summary/Est	Priority:
<p><b>Segment A(1) Napa Junction Road from Highway 29 to Lena's Tavern-</b> Paved public road approx. 20' wide extends approx. 1150 l.f., ends at telephone pole N.E. of Lena's (see report text for description).</p>						
<p><b>Segment A(2) Main access road - Private road extending approx. 1700 l.f.</b> from end of Napa Junction Road to Newell property. (see report text for description)</p>				<p><b>General Recommendation:</b> Significant access issues, Improvements required - see report text.</p>	<p><b>Approx. Cost:</b> \$0</p>	<p><b>Priority:</b> N.A.</p>
<p><b>Segment A(3) - Main access road - private road on Newell property, 2,500 l.f.</b> from A(2) to Gate 2, Segment B. (see report text for description)</p>						
<p><b>General Recommendation:</b> Significant access issues, Improvements required - see report text. Compacted subgrade and 6" base rock surface recommended from Newell driveway to Segment B to accommodate public and caretaker access.</p>				<p><b>Approx. Cost:</b> See Summary/Est</p>	<p><b>Priority:</b> Critical</p>	
<p><b>Site-Specific Recommendations</b></p>						
	A(3)	Deep potholes just east of Newell driveway	A1	Fill with compacted base rock as temporary fix until major road improvements	\$200	High
	A(3)	No fence exists on n. side of road between Gate 1 and Gate 2.	A2	Install fence on n. side of road to provide for public access (see grazing plan for addl. fencing and gating recommendations)	\$500	High

Segment B - Main access road/lower main canyon road, Gate 2 to creek crossing/start of Segments D and F, 2500 l.f. of which 200 l.f. is off Preserve property. Gently sloped and curving dirt road 12' wide parallels creek on cut/fill bench approximately 16' to 20' wide.		General Recommendations: Construct new access road to junction with Segment C; 20' wide with 6" deep compacted base rock surface over compacted subgrade sloped min. 2% for drainage. Opron in Summary/Estimate to place all-weather base rock surface. Provide rolling dips where possible to improve drainage. Install new cattle fence to n. to separate pasture from public access area.		Approx. Cost:	Priority:
GPS Point	Approx. Location	Description	Photo	Site-Specific Recommendations	Summary/Estimate
26		Gully near Gate 2 has been partially filled with rock, temporary 12" PVC culvert installed	B1	Needs permanent culvert, additional rock, re-shaping and/or planing to reduce gulying	\$1,000
27		Creek bank failure on s. side (near conc block) - caused or worsened by cattle?		Place rock at toe of slope, willow planting to protect bank; fence cattle out of creek	\$1,500
	27A	Pile of rusting fence material on s. side of road		Remove	\$0
47		Small gully on n. side		Need small culvert at road; head cut in drainage to n. needs re-shaping, planting to prevent gulying.	\$1,500
	47A	Low-lying road section approx. 10 yards long	B2	Fill with compacted base rock; may need to fill/regrade section for better drainage	\$1,500
28		Temporary 12" x 20' ABS culvert		Size and install longer permanent culvert	\$2,000
29		Low area n. of creek crossing - wet and poor draining		Regrade, possibly fill, create ditch to drain	\$1,000
Segment C - Access road to barn area, 150 l.f. incl. 50' beyond creek centerline, 70 l.f. on Preserve property. This would be a new road. Road currently connects to temporary creek ford a few yards to the east.		General Recommendations: Construct new access road 20' wide with 6" deep compacted base rock surface over compacted subgrade sloped min. 2% for drainage.		Approx. Cost: See Summary/Estimate	Priority: Critical
GPS Point	Approx. Location	Description	Photo	Site-Specific Recommendations	Summary/Estimate
	C	Crossing of main canyon intermittent stream, approx. 10-12' from top of bank to top of bank, 5' deep. Evidence of bank retaining left from previous bridge.	C1	Install railroad flat car bridge founded on earth well back from top of bank on both sides. Provide vehicle guard rail on bridge and approaches and pedestrian railings on bridge.	See Summary/Estimate
	C	Cut for temporary creek crossing to e. of recommended bridge crossing	C2	Restore disturbed area by seeding and mulching if required, install stepping stones or small bridge for pedestrian crossing?	\$500

GPS Point	Approx. Location	Description	Photo	General Recommendations: Provide rolling dips (preferred) or waterbars where possible to improve drainage. Locate so outfall is at gentlest slopes available; provide rock checks and/or willow plantings at outfall to prevent slope erosion. Cost for improvement to all-weather base rock surface is in Site-Specific Recommendations	Approx. Cost:	Priority:
<p><b>Segment D - Upper main canyon road, 6000 i.f. A dirt road approximately 12' wide on a cut/fill bench. Initially gentle climb with steep side slopes, climbs more steeply beyond gate, with high banks, then levels off, widens out through eucalyptus grove, then climbs in narrow canyon with steep banks above and below. Portions are sloped to drain to outside but have intervening berm. Other portions slope to inside ditch. Photos D1, D2</b></p>						
30		Bank failure between creek and road on s. side	D3	Needs rock toe reinforcement, earth bank fill with erosion control planing - willows; mulch, seed disturbed ground	\$2,000	High
	Gate 3	Inoperable gate in pasture cross-fencing		Install new gate in new location in conjunction w/ grazinging improvements	See Summary/Estimate	N.A.
31		Actively eroding gully on s. side	D4	Earth fill, rock toe, willow plantings, seed and mulch disturbed ground	\$1,500	High
32		Gully on both sides of road - not as actively eroding as 31		Reshape, willow plantings, rock check, seed and mulch disturbed ground	\$1,500	Medium
33		Active erosion on s. side of road, creekbank failure cutting into road - similar to 30	D5	Needs rock toe reinforcement, earth bank fill with erosion control planing - willows; mulch, seed disturbed ground	\$2,500	High
50		Major slide on slope s. of creek (doesn't threaten road). Probably natural condition, but may be worsened by cattle	D6	Fence cattle out of steep slopes and creek in this area. Revegetating these drainages is part of creek work Summary/Estimate	See Grazing Plan, Summary/Estimate	N.A.
		Bank failure on n. side threatens road		Reshape bank, place rock toe reinforcement, seed and mulch disturbed areas	\$500	Medium
34		Active erosion gully on both sides	D7	Needs culvert, rock checks, erosion control plantings	\$1,500	High
35		Major active erosion gully on both sides of road along head of creek drainage	D8, D9	Needs regrading, culvert, rock checks, willow plantings in drainages, seed and mulch disturbed areas	\$3,000	Critical

<p><b>Segment E - North canyon road, Segment D to Gate 9, 3400 i.f. A little-used road connecting to property owned by Azevedo. Initial segment cut into rolling terrain across ridge is typically out-sloped for drainage. Generally in good condition. See report text regarding Lynch Canyon trail study proposals.</b></p>		<p><b>General Recommendation:</b> No work required except at specific locations noted.</p>		<p><b>Approx. Cost:</b> \$0</p>	<p><b>Priority:</b> N.A.</p>	
GPS Point	Approx. Location	Description	Photo	Site-Specific Recommendations		
36		Minor bank slipout		Regrade	\$200	Medium
37		Gully on n. side eroding back across road		Needs culvert, fill gully, place rock and/or planting to prevent gullying, seed disturbed areas	\$1,500	High
38		Gully on n. side eroding back across road		Needs culvert, fill gully, place rock and/or planting to prevent gullying, seed disturbed areas	\$1,500	High
	38A	Ravine crosses road - very flat area		Needs culvert or small bridge - or just leave if low traffic	\$1,000	Low
<p><b>Segment E(1) - North ridge road east, Segment E to e. property boundary, 2800 i.f. Eventually leads to gate at Lynch Canyon Preserve n. boundary. A steep climb straight up ridge, then winds and dips along ridge. Very little used and thus in excellent condition. See report text regarding Lynch Canyon trail study proposals.</b></p>		<p><b>General Recommendation:</b> Initial steep section may experience erosion with heavier use. Use compacted base rock, or if necessary excavate and place engineered rock mat for wear-resistant surface.</p>		<p><b>Approx. Cost:</b> \$2,000</p>	<p><b>Priority:</b> Currently Low</p>	
<p><b>Segment E(2) - North ridge road, Segment E to Gate 8 at w. property boundary, 1700 i.f. A steep climb straight up ridge, then winds and dips along ridge. Very little used and thus in excellent condition.</b></p>		<p><b>General Recommendation:</b> Discourage use; do not designate as public trail to avoid encouraging trespass or unauthorized trail connections.</p>		<p><b>Approx. Cost:</b> \$50 for signs</p>	<p><b>Priority:</b> Medium</p>	

GPS Point		Approx. Location	Description	Photo	Site-Specific Recommendations	Approx. Cost:	Priority:
<p><b>Segment F - South canyon road, 9600 l.f. total, looping from segment D past G, H, I, J, and back to D. Dirt road generally 12' wide, initial segment to PG&amp;E line traverses gentle terrain, then steeper slopes, including very active slide zone at crossing of south canyon. Road is used by PG&amp;E for access to towers. Photos F1, F2</b></p>							
40							
41			Minor gully on w. side eroding toward road Slope failure has undermined road		Rock check, re-shape gully, erosion control planting Rock fill at toe of failure with earth fill above, erosion control planting	\$1,000 \$2,000	Medium High
	41A		Minor gully s. side of road		Rock check, re-shape gully, erosion control planting	\$500	Medium
	41B		Old concrete pipe segment, 5' dia. Used for water trough fed by seep, apparently functional	F3	Improve condition and function, improve adjacent surface with gravel, fence spring area from cattle: cost in Grazing Plan, Summary/Estimate	\$0	High
42			Major slides in this area, road dropped several feet, old CMP culverts displaced. This area is likely to continue to slide.	F4	Remove old culverts, install new culvert(s), reshape, plant in drainage, seed disturbed ground, place rock in gully to prevent further erosion	\$5,000	Critical
	42A		At least 3 locations where gully on n. side threatens road	F5	Re-shape gully, erosion control planting, rock checks	\$1,500	High
43			Old gully above new slump on s. side		Reshape, install drain to intercept subsurface water, seed disturbed ground	\$1,000	Medium
44			Wet hillside on s. side; natural seep, chumed up by cattle. Water trough (old bathtub) overturned nearby	F6	Fence the wet area, conduct water to trough in flat area to west if needed for cattle, install ditch and culvert to conduct overflow across road	\$2,000	High
	44A		Low point/ drainage crossing road just e. of junction of F and I (no current damage)		Culvert needed	\$500	Medium
46			Recent slope failure across road has been regraded	F7	Install rock slope reinforcement on uphill side, subdrain(s) to intercept water, waterbars in road	\$1,500	Medium
	46A		Crossing of s. canyon intermittent stream, flat topography, original culvert has been undermined or removed, is lying on site.	F7	Very flat topography requires multiple culverts or small bridge	\$2,000	High
29			48" CMP, 8' long at creek crossing	F8, F9	Needs lowering and/or multiple culverts, silt removal, longer culvert(s), sacked concrete or large rock headwalls	\$5,000	Critical

<p><b>Segment F(1) - Central ridge road, 2600 i.f. F at upper end to F at lower end.</b> Upper portion cut in sides of ridge to provide access to PG&amp;E towers. Lower portion runs steeply straight down ridge through Gate 4 in cross-fencing. Little used, especially lower segment.</p>	<p><b>General Recommendation:</b> Abandon middle segment as a road or trail; place signs. May require light grading and seeding of abandoned segment. Maintain Gate 4 and short segment of road at west end for access to proposed water trough.</p>	<p><b>Approx. Cost:</b> \$500</p>	<p><b>Priority:</b> High</p>
<p><b>Segment G - East ridge road, 1900 i.f. total to second/last crossing of property line.</b> Climbs to and winds along ridge in gentle terrain. Used by PG&amp;E for access to towers. See report text regarding Lynch Canyon trail study proposals.</p>	<p><b>General Recommendation:</b> no work required.</p>	<p><b>Approx. Cost:</b> \$0</p>	<p><b>Priority:</b> N.A.</p>
<p><b>Segment G(1) - Central spur road.</b> Little used spur road running 900 i.f. n.w. from intersection of F to G.</p>	<p><b>General Recommendation:</b> do not designate as a public trail; would encourage unauthorized connections down steep slope and across creek; abandon if not required for cattle operations. Place signs to close.</p>	<p><b>Approx. Cost:</b> \$50 for signs</p>	<p><b>Priority:</b> Medium</p>
<p><b>Segment G(2) - Proposed Ridge Trail route.</b> Proposed new trail approx. 3,500 i.f. from H to G. Appears to be entirely on Newell property. See report text regarding Lynch Canyon Ridge Trail study proposals.</p>	<p><b>General Recommendation:</b> coordinate with Lynch Canyon trail planning and construction.</p>	<p><b>Approx. Cost:</b> \$0</p>	<p><b>Priority:</b> High</p>
<p><b>Segment H - Southeast boundary road, 2200 i.f. F to property line.</b> Little-used road climbs steeply, mostly out-sloped. Extends to s.e. boundary of property. Forks on e. side of ridge, where n. fork crosses onto Lynch Canyon Preserve. See report text regarding Lynch Canyon trail study proposals.</p>	<p><b>General Recommendation:</b> Abandon the portion of H to the east of H(1). Sign as closed.</p>	<p><b>Approx. Cost:</b> \$50 for signs</p>	<p><b>Priority:</b> Medium</p>
<p><b>Segment I - South boundary/PG&amp;E road, 800 i.f. total, segment F to Gales 6 and 7.</b> A short road providing access to PG&amp;E towers. Both gates are pipe frame wire "sheep gates" in good condition. Access to the wooded south ridge is more level from I than from J, though only a cattle trail exists as a connection.</p>	<p><b>General Recommendation:</b> no work required. Use this route as a trail connection to the south ridge, rather than Segment J.</p>	<p><b>Approx. Cost:</b> \$0</p>	<p><b>Priority:</b> N.A.</p>
<p><b>Segment J - South ridge road, 3300 i.f. from segment F/Gale 6 to top of ridge.</b> Initial section is a road cut into a steep hillside. The first section is too steep to be practical as a road or a trail. Road continues as a winding track, meandering along with cattle trails to the w. end of the ridge. Photos J1, J2</p>	<p><b>General Recommendation:</b> Abandon the first section as a road or trail. Construct approx. 1,500 i.f. of new trail, including trail stile at connection to segment I, and switch backs at the w. end to connect to the barn/parking area; improve/deline approx. 2,750 i.f. existing route.</p>	<p><b>Approx. Cost:</b> \$2,500 to \$5,000, assuming vol. help</p>	<p><b>Priority:</b> High</p>

<p><b>Segment K - Woodland Trail, 2200 I.F. total from C to F. An old road cut into steep n.-facing hillside or crossing more gentle wooded slopes. Unused for a long time and not drivable. Short portions have steep grades. Road peters out about a thousand feet short of connection to F. May never have connected or have been obliterated by slides and vegetation.</b></p>		<p><b>General Recommendation:</b> Maintain as a trail connection only: need to improve/define approximately 800 I.F. of existing route at the e. end to connect to F, and at w. end to new trail J. A scenic and shady alternative to main canyon trail.</p>		<p><b>Approx. Cost:</b> \$800 to \$1,600 assuming vol. help</p>	<p><b>Priority:</b> High</p>
<p><b>GPS Point</b></p>	<p><b>Approx. Location</b></p>	<p><b>Description</b></p>	<p><b>Photo</b></p>	<p><b>Site-Specific Recommendations</b></p>	
K		<p>A natural spring has been developed with a pipe and rock pools. An obvious acorn grinding rock is also located at this point. The spring is being heavily impacted by cattle.</p>	K1	<p>Fence the spring and grinding rock to protect from cattle (part of grazing management plan). Restore the spring and drainage. Place interpretive sign.</p>	
				<p><b>Approx. Cost:</b> \$200</p>	<p><b>Priority:</b> Medium</p>

**REVISED NEWELL MASTER PLAN COSTS, WITH CRITICAL COSTS SEPARATED**

<u>Report Reference</u>	<u>Item</u>	<u>Work Scope/Comments</u>	<u>Critical Costs</u> <small>(year 2001 \$)</small>	<u>Needed To Complete Plan</u> <small>(year 2001 \$)</small>	<u>Approx. Long term Costs</u> <small>(year 2001 \$)</small>	<u>Annual Costs</u> <small>(year 2001 \$)</small>
<b>Section A</b>	<b>RESOURCE PROTECTION and RESTORATION</b>					
A1	Basic Vegetation and Wildlife Management	Annual allowance for seeds, pesticides			5,000	1,000
A1a, A2a	Detailed Management Plan	Prepare specific plan and program for restoring streams, native vegetation				
A3, B7d	Cultural Resources (also addresses Environmental Education, B7d)	Exhibits and materials (any site assessments funded in conjunction with other projects)		5,000	10,000	500
A4a-e, A5 p 2-17	Geology, Soils and Hydrology	Creek and drainage restoration program. 5,000 lineal feet @ \$50 to \$80 per lineal foot.		250,000	150,000	
A5 (Costs)	Grazing Management Water and Cross Fencing Perimeter Fencing	(Grant Portion: \$10,260)	32,034			
		<b>Subtotal one time costs</b>	<b>32,034</b>	<b>25,800</b>	<b>160,000</b>	
<b>Section B</b>	<b>SITE USE and IMPROVEMENT</b>					
B1, B2	Designate Trails and Trail Uses	No costs				
B3a-c	Designate Use Area, Programs	No costs, or are in other categories				
B3d	Stable Facilities	If sufficient land is available		50,000		
B3e	Old Mine Tunnel	Security gate for mine	500			

**REVISED NEWELL MASTER PLAN COSTS, WITH CRITICAL COSTS SEPARATED**

<u>Report Reference</u>	<u>Item</u> <i>Facilities and Fixtures</i>	<u>Work Scope/Comments</u>	<u>Critical Costs</u> (year 2001 \$)	<u>Needed To Complete Plan</u> (year 2001 \$)	<u>Approx. Long term Costs</u> (year 2001 \$)	<u>Annual Costs</u> (year 2001 \$)
B4	Restrooms: H.C. Accessible	Initially 2 rented portables Long term pre-fab vault units 2 @ \$25,000 ea.				1,800
B4b	Picnic Tables	Long-term 8 for staging area	6,000	3,600	50,000	
B4b	Benches	3 for camp @ \$1200 ea.	2,400	1,200		
B4c	Trash Receptacles	Long term 12 @ \$500 ea.	3,000	3,000		
B4d	Vehicle Gates	2 for staging area	800			
B4d	Trail Gates, Stiles, per standard details	12' steel: 7 @ \$1500 ea.	10,500			
B4e	Signs, Maps, Brochures Main Entry Signs	Hiker/H.C.access: 2 @ \$500 Multi-use: 2 @ \$1000 ea. Allowance	1,000 2,000 2,000			1,200
		<b>Subtotal one time costs</b>	<b>28,200</b>	<b>57,800</b>	<b>50,000</b>	
B6	<i>Vehicle Access/Circulation</i>	<i>See Access &amp; Circulation Estimate Notes</i>				
B5	Internal Road and Trail Improvements	See detail in Road Assessment	13,000	52,700		
B6a	Short Term Access	End Watson Lane to new bridge: 12' wide w/ 8' wide turnouts every 500'		232,368		
B6c	Short Term Parking Area (same as above)	From bridge to parking areas for public and caretaker		261,868		
B6b	Long Term Access	Future Flosden Road to bridge, 20' wide w/ curbs			250,000	
B6c	Long-Term Parking Area	Pave and double size of public parking area			100,000	
B6d	Railcar Bridge	w/bumpers and guardrails	30,000			
B5d	All-weather road to ridge	6" base rock w/turnouts			142,056	
		<b>Subtotal one time costs</b>	<b>43,000</b>	<b>546,936</b>	<b>492,056</b>	<b>2,000</b>

## REVISED NEWELL MASTER PLAN COSTS, WITH CRITICAL COSTS SEPARATED

<u>Report Reference</u>	<u>Item</u>	<u>Work Scope/Comments</u>	<u>Critical Costs</u> (year 2001 \$)	<u>Needed To Complete Plan</u> (year 2001 \$)	<u>Approx. Long term Costs</u> (year 2001 \$)	<u>Annual Costs</u> (year 2001 \$)
B7	Barn Use and Improvements	Replace roof and reinforce structure Enclose bay, add electrical, lighting, concrete pads	5,000	15,000		
B8	Utilities and Services	Connection/permit fees	1,000			
B8a1	Provide water to staging area and caretaker's residence: connect to City of Vallejo main at Newell driveway	Backflow preventer 4" main: 1850 l.f. @\$20/l.f. 3 - 1" water meters for barn, house, and camp/cattle 1 1/4" water lines to barn, house: 400 l.f. @ \$2/l.f.	5,000 27,000 1,000	2,000		
B8a2	Extend water to group camp and pastures	Fire hydrant at Staging Area 1 1/4" line (cost is included in grazing management)	2,000	800		
B8a3	Faucets/Drinking Fountains	At barn, house and camp (3)		3,000		
B8b	Electric, phone service	Extend on poles approx. 1850 l.f. to barn and house		18,500		
		<b>Subtotal one time costs</b>	<b>41,000</b>	<b>39,300</b>	<b>0</b>	
B9	Caretaker's residence					
B9a1	House, pad, and foundation	Pre-fab unit < 2000 s.f.		100,000		
B9a3	Garage/ storage building	Approx. 20' x 20'		2,000	20,000	
B9b	Propane tank, enclosure Septic system Drive/parking	Cost included in on-site circulation		20,000		
	Fencing and Landscaping	Allowance		5,000		
		<b>Subtotal one time costs</b>	<b>0</b>	<b>127,000</b>	<b>20,000</b>	

**REVISED NEWELL MASTER PLAN COSTS, WITH CRITICAL COSTS SEPARATED**

<u>Report Reference</u> Section C	<u>Item</u> SITE MANAGEMENT	<u>Work Scope/Comments</u>	<u>Critical Costs</u> (year 2001 \$)	<u>Needed To Complete Plan</u> (year 2001 \$)	<u>Approx. Long term Costs</u> (year 2001 \$)	<u>Annual Costs</u> (year 2001 \$)
C1b	Volunteer Patrol	Annual Costs depend upon level of use; Long-term costs are annual			5,000	1,000
C1, C2	Patrol and public safety, property management and maintenance	May need personnel in addition to caretaker			Varies	Varies
	Site management, equipment and supplies	Subtotal <i>annual</i> costs Plus in-house Staff time	0		5,000 <b>10,000</b>	1,000
<b>OVERALL COST SUMMARY</b>						
	<b>Subtotal One Time Costs</b>		<b><u>144,234</u></b>	<b><u>1,051,836</u></b>	<b><u>722,056</u></b>	
	Contingency - 15%		21,635	157,775	108,308	
	Subtotal		165,869	1,209,611	830,364	
	Design, Engineering and Project Management	15% of One Time Costs	24,880	181,442	124,555	
	<b>Grand Total Costs</b>	<b>One Time Costs</b>	<b><u>190,749</u></b>	<b><u>1,391,053</u></b>	<b><u>954,919</u></b>	
	<b>Total Project Costs</b>		<b>2,536,722</b>			
	<b>Annual Costs:</b>	<b>Initially</b>	<b>8,500</b>			
		<b>Long-term</b>	<b>23,500</b>			

## VASCULAR PLANTS OCCURRING AT NEWELL CANYON OPEN SPACE

### Pteridophytes - Ferns and Allies

<i>Adiantum jordanii</i>	California maidenhair fern
<i>Dryopteris arguta</i>	California wood fern
<i>Equisetum laevigatum</i>	Braun's scouring rush
<i>Equisetum telmateia</i> ssp. <i>braunii</i>	giant horsetail
<i>Pentagramma triangularis</i> ssp. <i>triangularis</i>	goldenback fern
<i>Polypodium glycyrrhiza</i>	Polypody
<i>Polystichum imbricans</i> ssp.	sword fern
<i>Pteridium aquilinum</i> var. <i>pubescens</i>	western bracken

### Anthophytes – Flowering Plants

#### Dicots

#### ANACARDIACEAE

<i>Toxicodendron diversilobum</i>	poison oak
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#### APIACEAE

<i>Angelica californica</i>	California angelica
<i>Heracleum lanatum</i>	cow parsnip
<i>Lomatium macrocarpum</i>	large-fruited lomatium
<i>Lomatium nudicaule</i>	pestle parsnip
<i>Lomatium utriculatum</i>	foothill lomatium
<i>Osmorhiza chilensis</i>	mountain sweet cicely
<i>Perideridia kelloggii</i>	Kellogg's yampah
<i>Sanicula bipinnatifida</i>	purple sanicle
<i>Sanicula crassicaulis</i>	pacific snakeroot
<i>Scandix pectin-veneris</i>	Spanish needles *
<i>Torilis nodosa</i>	knotted hedge parsley *

#### ARISTOCHIACEAE

<i>Aristolochia californica</i>	dutchman's pipe
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#### ASTERACEAE

<i>Achillea millefolium</i>	common yarrow
<i>Agoseris grandiflora</i>	large-flowered agoseris
<i>Artemisia douglasiana</i>	Douglas's mugwort
<i>Artemisia californica</i>	California sagebrush
<i>Baccharis pilularis</i>	coyote brush
<i>Balsamorhiza macrolepis</i> ssp. <i>macrolepis</i>	California balsamroot
<i>Carduus pycnocephalus</i>	Italian thistle *

<i>Centaurea calcitrapa</i>	purple star thistle *
<i>Centaurea solstitialis</i>	yellow star thistle *
<i>Cirsium vulgare</i>	bull thistle *
<i>Cotula coronopifolia</i>	brass buttons *
<i>Erigeron petrophilus</i> ssp. <i>petrophilus</i>	rock daisy
<i>Eriophyllum lanatum</i> var. <i>achillaeoides</i>	woolly sunflower
<i>Gnaphalium canescens</i> ssp. <i>beneolens</i>	slender cudweed
<i>Gnaphalium purpureum</i>	purple cudweed
<i>Gnaphalium stramineum</i>	cotton-batting plant
<i>Hemizonia congesta</i> ssp. <i>luzulifolia</i>	hayfield tarweed
<i>Hesperervax sparsiflora</i> var. <i>sparsiflora</i>	erect hesperervax
<i>Heterotheca sessiliflora</i> ssp. <i>bolanderi</i>	Bolander's hairy golden aster
<i>Lagophylla ramosissima</i>	common hairleaf
<i>Madia gracilis</i>	slender madia
<i>Picris echioides</i>	prickly ox-tongue *
<i>Silybum marianum</i>	milk thistle *
<i>Sonchus oleraceus</i>	sow thistle *
<i>Wyethia angustifolia</i>	narrow-leaved mule ears
<i>Wyethia glabra</i>	glossy mule ears
<b>BERBERIDACEAE</b>	
<i>Berberis pinnata</i> ssp. <i>pinnata</i>	California mahonia
<b>BETULACEAE</b>	
<i>Corylus cornuta</i> var. <i>californica</i>	California hazelnut
<b>BORAGINACEAE</b>	
<i>Amsinckia menziesii</i> ssp. <i>intermedia</i>	common fiddleneck
<i>Cynoglossum grande</i>	grand hound's tongue
<b>BRASSICACEAE</b>	
<i>Brassica niger</i>	black mustard *
<i>Cardamine californica</i> ssp. <i>californica</i>	California milkmaids
<i>Erysimum capitatum</i> var.	wallflower
<i>Rorippa nasturtium-aquaticum</i>	
<i>Sisymbrium officinale</i>	hedge mustard *
<b>CAPRIFOLIACEAE</b>	
<i>Lonicera hispidula</i> var. <i>vacillans</i>	hairy honeysuckle
<i>Sambucus mexicana</i>	desert elderberry
<i>Symphoricarpus albus</i> ssp. <i>laevigatus</i>	common snowberry
<b>CARYOPHYLLACEAE</b>	
<i>Silene californica</i>	California Indian pink
<i>Silene gallica</i>	windmill pink *
<i>Stellaria media</i>	common chickweed *

CONVOLVULACEAE	
<i>Calystegia subacaulis</i> ssp. <i>subacaulis</i>	hill morning glory
<i>Calystegia</i> ssp.	morning glory
CRASSULACEAE	
<i>Dudleya cymosa</i> ssp. <i>cymosa</i>	live forever
CUCURBITACEAE	
<i>Marah fabaceus</i>	California manroot
DIPSACACEAE	
<i>Dipsacus sativus</i>	Fuller's teasel *
ERICACEAE	
<i>Arbutus menziesii</i>	madrone
FABACEAE	
<i>Lathyrus jepsonii</i> ssp. <i>californicus</i>	Jepson's pea
<i>Lathyrus vestitus</i> var. <i>vestitus</i>	hillside pea
<i>Lotus corniculatus</i>	bird's foot trefoil *
<i>Lupinus bicolor</i>	miniature lupine
<i>Lupinus succulentus</i>	succulent lupine
<i>Medicago arabica</i>	black medic *
<i>Medicago polymorpha</i>	bur clover *
<i>Trifolium dubium</i>	shamrock *
<i>Trifolium hirtum</i>	rose clover
<i>Trifolium subterraneum</i>	subterranean clover *
<i>Vicia americana</i> var. <i>Americana</i>	American vetch
<i>Vicia sativa</i> ssp. <i>nigra</i>	winter vetch *
<i>Vicia sativa</i> ssp. <i>sativa</i>	spring vetch *
GERANIACEAE	
<i>Erodium botrys</i>	long-beaked filaree *
<i>Erodium cicutarium</i>	red-stemmed filaree *
<i>Geranium dissectum</i>	cut-leaved geranium *
<i>Geranium molle</i>	dove's foot geranium *
GROSSULACEAE	
<i>Ribes victoris</i>	Victor's gooseberry
HIPPOCASTANACEAE	
<i>Aesculus californica</i>	buckeye
HYDROPHYLLACEAE	
<i>Phacelia distans</i>	common phacelia
<i>Phacelia imbricata</i>	imbricate phacelia

<i>Nemophila heterophylla</i>	woodland nemophila
LAMIACEAE	
<i>Marrubium vulgare</i>	horehound *
<i>Mentha pulegium</i>	pennyroyal *
<i>Monardella villosa ssp. villosa</i>	coyote mint
<i>Stachys ajugoides var. ajugoides</i>	hedge nettle
<i>Stachys ajugoides var. rigida</i>	rigid hedge nettle
LAURACEAE	
<i>Umbellularia californica</i>	California bay
LYTHRACEAE	
<i>Lythrum hyssopifolia</i>	hyssop-leaved loosestrife *
MYRTACEAE	
<i>Eucalyptus globules</i>	blue gum *
ONAGRACEAE	
<i>Epilobium brachycarpum</i>	panicled willowherb
<i>Zauschneria californica</i>	California fuchsia
PAPAVERACEAE	
<i>Eschscholzia californica</i>	California poppy
<i>Platystemon californicus</i>	cream cups
PLANTAGINACEAE	
<i>Plantago erecta</i>	dwarf plantain
<i>Plantago subnuda</i>	Mexican plantain
<i>Plantago lanceolata</i>	English plantain *
POLYGONACEAE	
<i>Eriogonum nudum var. oblongifolium</i>	nudestem buckwheat
<i>Rumex acetosella</i>	sheep sorrel *
<i>Rumex crispus</i>	curly dock *
PORTULACACEAE	
<i>Claytonia perfoliata ssp. perfoliata</i>	miner's lettuce
PRIMULACEAE	
<i>Anagallis arvensis</i>	scarlet pimpernel *
RANUNCULACEAE	
<i>Ranunculus californicus</i>	California buttercup

<i>Ranunculus muricatus</i>	prickleseed buttercup *
RHAMNACEAE	
<i>Rhamnus californica</i> ssp. <i>californica</i>	California coffeberry
ROSACEAE	
<i>Acaena pinnatifida</i> var. <i>californica</i>	California acaena
<i>Holodiscus discolor</i>	ocean spray
<i>Malus sylvestris</i>	apple *
<i>Potentilla glandulosa</i> ssp.	sticky cinquefoil
<i>Rosa californica</i>	California rose
<i>Rosa spithamea</i>	ground rose
<i>Rubus discolor</i>	Himalayan blackberry
<i>Rubus ursinus</i>	California blackberry
RUBIACEAE	
<i>Galium aparine</i>	cleavers *
<i>Galium murale</i>	wall bedstraw *
<i>Galium porrigens</i> ssp. <i>porrigens</i>	climbing bedstraw
SALICACEAE	
<i>Salix exigua</i>	sandbar willow
<i>Salix lasiolepis</i>	arroyo willow
<i>Salix lucida</i> ssp. <i>lasiandra</i>	red willow
SAXIFRAGACEAE	
<i>Lithophragma affine</i>	woodland star
SCROPHULARIACEAE	
<i>Bellardia trixago</i>	bellardia *
<i>Castilleja affinis</i> ssp. <i>affinis</i>	coast paintbrush
<i>Castilleja affinis</i> ssp. <i>neglecta</i>	Tiburon paintbrush
<i>Castilleja exserta</i> ssp. <i>exserta</i>	purple owl's clover
<i>Castilleja rubicundula</i> ssp. <i>lithspermoides</i>	cream sacs
<i>Mimulus aurantiacus</i>	sticky monkeyflower
<i>Mimulus guttatus</i>	seep-spring monkeyflower
<i>Scrophularia californica</i> ssp.	California figwort
<i>Triphysaria pusilla</i>	dwarf owl's clover
<i>Veronica americana</i>	american brooklime
SOLANACEAE	
<i>Solanum americanum</i>	small flowered nightshade
<i>Solanum umbelliferum</i>	blue witch
URTICACEAE	
<i>Urtica dioica</i> ssp. <i>holsericea</i>	hoary nettle

VIOLACEAE

*Viola pedunculata*

Johnny jump-ups

VISCACEAE

*Phoradendron macrophyllum*

long-spiked mistletoe

Monocots

CYPERACEAE

*Carex barbarae*

Santa Barbara sedge

*Carex deweyana* var. *leptopoda*

short-scaled sedge

*Cyperus eragrostis*

yellow-nutsedge

*Eleocharis macrostachya*

creeping spikerush

*Scirpus koilolepis*

keeled clubrush

*Scirpus americanus*

american bulrush

IRIDACEAE

*Iris macrosiphon*

bowl-tubed iris

*Sisyrinchium bellum*

blue-eyed grass

JUNCACEAE

*Juncus balticus*

Baltic rush

*Juncus effusus* var. *pacificus*

pacific bog rush

*Juncus mexicanus*

Mexican rush

*Juncus xiphioides*

Iris-leaved rush

*Luzula subsessilis*

common wood rush

LILIACEAE

*Allium serra*

serrated onion

*Calochortus luteus*

gold nuggets

*Chlorogalum pomeridianum* var. *pomeridianum*

Indian soap

*Dichelostemma capitatum* ssp. *capitatum*

blue dics

*Dichelostemma congestum*

ookow

*Disporum hookeri*

Hooker's fairy bells

*Smilacina stellata*

star false solomon's seal

*Trillium chloropetalum*

giant trillium

*Zigadenus fremontii*

Fremont's star lily

ORCHIDACEAE

*Corallorhiza striata*

striped coral root

POACEAE

*Avena barbata*

wild oats \*

<i>Bromus carinatus</i> var. <i>carinatus</i>	California brome
<i>Bromus daindrus</i>	rip-gut grass *
<i>Bromus hordeaceus</i>	soft chess *
<i>Bromus laevipes</i>	woodland brome
<i>Cynsurus echinatus</i>	dogtail grass *
<i>Elymus elymoides</i> ssp. <i>elymoides</i>	bottlebrush squirrel-tail
<i>Elymus glaucus</i> ssp. <i>glaucus</i>	western rye grass
<i>Elymus multisetus</i>	big squirrel-tail
<i>Hordeum brachyantherum</i> ssp. <i>brachyantherum</i>	meadow barley
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i>	Mediterranean barley *
<i>Leymus triticoides</i>	alkali rye
<i>Lolium multiflorum</i>	Italian rye *
<i>Melica californica</i>	California melica
<i>Nassella lepida</i>	small-flowered neddlegrass
<i>Nassella pulchra</i>	purple needlegrass
<i>Poa annua</i>	annual bluegrass *
<i>Poa secunda</i> ssp. <i>secunda</i>	pine bluegrass
<i>Phalaris paradoxa</i>	paradox canary grass *
<i>Polypogon monspeliensis</i>	rabbit's foot *

#### TYPHACEAE

<i>Typha angustifolia</i>	Narrow-leaved cat-tail
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\* = non-native species

**CITY OF AMERICAN CANYON  
GRAZING LICENSE  
FOR NEWELL OPEN SPACE PRESERVE**

The Grazing License ("License") is authorized by the City of American Canyon ("City") and issued to Azevedo Livestock Company ("Licensee") on this 8<sup>th</sup> day of July, 2022 ("Effective Date"), for the purpose of grazing on a portion of the property commonly known as the Newell Open Space Preserve, Napa County, California, on such terms and conditions as herein set forth. The parties to this License may individually be referred to as a "Party" or collectively as the "Parties".

**Recitals**

WHEREAS, the City is a California municipal corporation and is the owner of certain real property, located in the County of Napa, California, commonly known as the Newell Open Space Preserve, and shown in Exhibit "A", attached hereto and made a part hereof (the "Property");

WHEREAS, Licensee desires to obtain a limited, restricted, and a non-exclusive License on a portion of the Property depicted in Exhibit A, for the purpose of livestock grazing thereon ("Grazing Area");

WHEREAS, the Grazing Area of the Property has a long history of use for livestock grazing, and the City desires to promote the continued, orderly use of the Grazing Area for the purpose in such a way that continues to preserve the safety, character, and natural resources of the Property;

WHEREAS, the City is willing to grant such limited, restricted, and non-exclusive license to Licensee on all the terms and conditions hereinafter set forth, and subject to all rights, privileges, and obligations of all easement holders on the Property, all lessees of the Property, and holder of all other rights, were benefiting or burdening the Property, and subject to all rights of the City its successors and assigns to use the Property, including the Grazing Area, as hereinafter set forth;

WHEREAS, the City is willing to License the Grazing Area to the Licensee for the purpose of providing agricultural value and managing the natural resources of the Property by means of compatible grazing and production of livestock in accordance with the Management Plan ("Newell Open Space Preserve Management Plan" prepared by Bruce Randolph Anderson and Associates and dated August 2000). The Management Plan may be amended from time to time at the City's sole discretion.

NOW, THEREFORE, in consideration of the mutual promises, and the representations, warranties, and covenants herein contained, the sufficiency of which is hereby mutually acknowledged, the Parties agree as follows:

**1. Term and Extension.**

- a. The City hereby Licenses to Licensee this limited, restricted, and non-exclusive License on all the terms and conditions as herein described.
- b. **Commencement of Term.** The term of this License shall be for the period of two (2) "Grazing Years", commencing on the first day of September following the Effective Date

(“Commencement Date”). The period September 1 through August 31<sup>st</sup> is defined as a “Grazing Year”. (The phrase “Grazing Season” is defined in Section 3, below).

- i. **Extensions.** Pursuant to the procedures set forth within this License, the Parties may mutually agree in writing to extend the term of the License – for additional one-year periods (“Extended Term”), commencing upon the expiration of the previous term.
- ii. **Procedure for Extension; Fees.** Should Licensee desire to extend the term of the License for an additional one-year term, Licensee shall give written notice to the City no later than three (3) months prior to the expiration of the then-current term of the License. No later than ninety (90) days after the Licensee gives notice of the desire to extend, the City shall give the Licensee notice that it is not willing to extend the License or notice that it is willing to extend the License along with a new schedule of fees for the proposed Extended Term of the License (“New Fee Schedule”), which fees may be determined at the sole discretion of the City. The Licensee shall have a period of thirty (30) days from receipt of the New Fee Schedule to accept or reject the schedule, in writing. Failure of Licensee to object to the New Fee Schedule shall signify Licensee’s consent thereto, and agreement to be bound by it all. All other terms and conditions of this License shall remain in full force and effect during the Extended Term(s).
- iii. **Expiration of License.** If the License is not extended, the Parties hereto shall be released from all liabilities, duties, or obligations hereunder, except for those liabilities, duties, or obligations accruing prior to such expiration.

**2. Payment and Schedule of Fees.** Licensee agrees to pay to the City at the address set forth herein, or at such other place as the City shall designate in writing, as the fee for the License for the Grazing Area (“License Fee”) the sum of Twelve Thousand Six Hundred Fifty and No Hundredths (\$12,650.00) per year. The Licensee will have the option to pay the Licensee Fee in full on September 1<sup>st</sup> of each Grazing Year, or make two (2) payments per Grazing Year per the schedule below:

a. Payment #1	Due Date: September 1st	\$6,325.00
b. Payment #2	Due Date: April 1st	\$6,325.00

The License Fee and all other sums that Licensee is obligated to pay to the City pursuant to this License shall be delinquent if not delivered to the City by the fifth day of such month and shall be subject to a late charge equal to one and one-half percent (1.5%) per month on any outstanding balance.

*Licensee understands and agrees that the fees to be paid are not based on per acre calculation.*

**3. Use of Grazing Area.** Licensee shall have the non-exclusive right to use the Grazing Area during the Grazing Season solely for the purpose of feeding, maintenance, and grazing of livestock in compliance with the Management Plan. Such use shall be at the Licensee’s sole risk and expense. Grazing Season shall be year-round and defined as September 1<sup>st</sup> through August 31<sup>st</sup>. Adjustments to the Grazing Season may be permitted by the City based on the condition of forage, weather, and other factors affecting the Property as determined by the City in consultation with Licensee. Any adjustment shall

be in writing from the City to Licensee.

- a. **Exclusions Zone:** Licensee is obligated to keep cattle out of the Exclusion Zone, per Exhibit A, of the Property throughout the duration of this License. The Exclusion Zone is roughly one hundred thirty-four (134) acres of the Property and defined by fences, gates, and/or barriers. The Licensee has a duty to repair any damaged fences, gates, and/or barriers caused by the cattle or Livestock Operations, per Number 6, Section c.

At any time the City may extend the Exclusion Zone beyond the one hundred thirty-four (134) acres of the Property as outlined in Exhibit A into the Grazing Area. Prior to extending the Exclusion Zone into the Grazing Area, the City will notify and provide written communication to the Licensee. If at any time the City reduces the Grazing Area by fifty (50) acres or more, the City will apply a credit of Two Dollars and Ten Hundredths (\$2.10) per acre per month which will be credited to the Grazing Fee; this credit will be rounded up to the nearest month.

- b. **Grazing System:** Licensee may use the continuous grazing system with cattle within the Grazing Area, the Grazing Area is not divided into sub-pastures or padlocks. Cattle are allowed access to the entire Grazing Area at any given time. Timing of grazing in these areas may change as directed by City staff. The City may utilize the cattle at other times to keep the vegetation at manageable levels. The City will work with the Licensee; the Licensee will be responsible for moving cattle into and out of these areas as requested.

**4. Condition of Grazing Area.** Licensee hereby accepts the Grazing Area in its present condition and understands that the City makes no representations or warranties regarding the adequacy or quality of the Grazing Area or any feeding or watering facilities thereon.

**5. Other Uses, Roads and Public Access.**

- a. **Other Uses.** By this License, Licensee hereby acknowledges that other use of the Property and Grazing Area, such as research, education, public access, and habitat protection and restoration projects, including projects funded by third-party mitigation proponents, currently take place and will continue to take place in the Grazing Area and in all other portions of the Property. The Grazing Area and all other portions of the Property may be subject to additional uses by the City and third-party interests in the future. Licensee shall cooperate with and shall facilitate the coexistence of these other uses on the Grazing Area, as specified below.
- b. **Public Access.** Licensee acknowledges that the Grazing Area and all other portions of the Property are open to public access and Licensee shall hereby covenant, warrant, and agree that it shall not interfere with permitted public access. Licensee shall take all steps reasonably necessary to accommodate such public access and Licensee shall provide reasonable notice to the City of stock management activities that would preclude public access to specific locations within the Grazing Area.

Proponents of public access projects will be responsible for the maintenance of all public access facilities. If damage occurs due to Licensee negligence, Licensee shall compensate the City for damages as provided in section 9c.

- c. **Research and Restoration.** Licensee acknowledges that the Property may be used for scientific research in the Grazing Area and all other portions of the Property and may be used for ecosystem restoration projects that require closures of certain areas, installation of fragile or expensive infrastructure and equipment, flags, or other monuments to demarcate research plots and restoration sites, application of plant materials, prescribed burns, chemicals, and other materials. The City will provide reasonable notice to Licensee of said projects if they have the potential to pose risk to livestock. Licensee shall conduct livestock grazing operations and any other activities permitted under this License in such a way that it shall not hinder, damage, impede or undermine the purpose of such projects. Proponents of research projects will be responsible for the maintenance of enclosure fences and equipment, or resources protected by the enclosure fence. If damage occurs due to the Licensee's negligence, Licensee shall compensate the City for damages as provided in section 9c.
- d. **Mitigation.** Portions of the Property, including the Grazing Area, may be the subject of mitigation projects. Licensee acknowledges that the City may allow third parties to implement mitigation projects on these Properties. Proponents of mitigation projects will be responsible for the maintenance of enclosure fences and resources protected by the enclosure fence. If damage occurs due to Licensee negligence, Licensee shall compensate the City for damages as provided in section 9c.

**6. Management Plan: Maintenance and Improvements Obligations: Grazing Restrictions.**

- a. **Compliance with the License and Management Plan.** The purpose of livestock grazing is to provide agricultural value and natural resource management services for the Grazing Area. Licensee hereby agrees that all operations of Licensee in the Grazing Area shall be carried out according to the best livestock management practices in the general geographic area of the Property and consistent with all applicable laws, rules, and regulations, and in compliance with the current and any updated Management Plan and the terms of this License.
- b. **Management Plan Specifications.** The Management Plan and amendments may have authority over, the type and minimum, and the maximum number of livestock allowed to graze in the Grazing Area, the rotation of the livestock through the Grazing Area, and reporting requirements. The Management Plan may also comply with the requirements arising from natural conditions and/or species on the Property if any, and the protection of certain species of plants and animals on the Property, particularly in the exclusion areas.
- c. **Repair and Deduct:** Licensee is not a tenant and therefore has no right to make repairs at the City's expense under the provisions of Section 1942 of the Civil Code of the State of California. However, if Licensee has such a right, then Licensee hereby waives all such rights. Once new facilities are constructed, it becomes the obligation of the Licensee to maintain them in

compliance with this License unless the requirement for a specified facility is waived by the City in writing.

- d. Obligations of the Facilities.** The Licensee shall, at its sole cost and expense, and in a timely manner, keep in good working condition, and shall inspect, maintain, repair, and improve, as needed all stock fences, gates, cattle guards, corrals, and all other equipment, structures, fixtures and devices within the Grazing Area (“Grazing Facilities”) and/or the Property throughout the duration of this License, per Exhibit B and the Management Plan. All the Grazing Facilities shall be kept in good working condition to the reasonable satisfaction of the City. Except otherwise specified in the Management Plan or in the License, Licensee shall not alter or add to the Grazing Facilities, or construct or build any new facilities without prior written approval from the City. Any obligation of Licensee to maintain, construct or improve existing stock fences, gates, cattle guards, corrals, and all other equipment, structures, fixtures, and devices on the Grazing Area shall be the responsibility of the Licensee and will be communicated to the City thirty (30) days prior to any work, and a work plan will be drafted to ensure that Grazing Facilities meet the City’s expectations to operate the Property. The

Licensee will not be responsible for repairing, fixing, maintaining, or replacing stock fences, gates, cattle guards, corrals, or other equipment, structures, fixtures, and devices within the Grazing Area or Property that is damaged by the public, per Exhibit B.

- e. Stock Water Facilities.** Licensee shall, at its sole cost and expense, maintain, repair, inspect, and keep in good working condition to the reasonable satisfaction of the City, all Stock Watering Facilities that are a part of the Livestock Operations and used specifically for cattle within the Grazing Area, per Exhibit B. Stock Water Facilities may include, but are limited to springs, spring boxes, windmills, solar facilities, troughs, drains, pipes and holding tanks. Licensee shall not alter or add to the existing Stock Water Facilities or construct or build any new Stock Water Facilities within the Grazing Area or Property without prior approval from the City.

Licensee will not be responsible for repairing, fixing, maintaining, or replacing any Stock Water Facilities within the Grazing Area or Property that is damaged by the public, per Exhibit B.

- f. Roads and Trails.** The Licensee will be required to repair, maintain, and fix any damage that is caused by Livestock Operations or cattle to the roads and trails within the Grazing Area and/or Property; this will be at the sole cost and expense to the Licensee per Exhibit B and the Management Plan. The Licensee will be required to conduct trail-smoothing and resurfacing maintenance twice (2) a year, and/or as needed within the Grazing Area due to damage caused by cattle and/or Livestock Operations; this will be at the sole cost and expense of the Licensee. Licensee shall provide the City written notice of any road/trail repair or any other earth-moving activities within the Grazing Area or the Property thirty (30) days prior to commencing such repair activity, and Licensee must receive written permission from the City before proceeding. The City shall approve all plans for such repairs; in addition, Licensee shall provide proof that all required permits are obtained.

The City may require the Licensee to repair any roads, trails, culverts, or drains within the Grazing Area and/or Property where damage was caused by the Livestock Operations or cattle within the Grazing Area or Property. Such repair and maintenance will be at the sole cost and expense of the Licensee and will need to be completed within thirty (30) days of receiving notice from the City. If the Licensee fails to complete these repairs or maintenance within the time given, the City may contract these services to a third-party vendor, in which the Licensee will be required to reimburse the City for the total cost of the work performed and completed.

The Licensee will not be responsible for repairing, replacing, or maintaining any trails or roads within the Grazing Area or Property where damage is caused by the public, natural soil cracking, landslides, slumping, or erosion.

- g. Long-Term and Additional Maintenance.** As specified in this License and/or the Management Plan, Licensee shall have the sole duty and responsibility, and shall at its sole cost and expense provide long-term maintenance, as defined in the Management Plan and this License. Additional maintenance may from time to time be approved in advance or directed by the City, as specified by the Management Plan and within Exhibit B of this License, or as shall mutually be agreed upon. Licensee shall not commence any grading or earth moving projects without prior approval from the City. If the maintenance project requires labor or materials above the scope of the Management Plan or within Exhibit B of this License, and if the City gives prior written approval to Licensee for such labor and material pursuant to an invoice from Licensee for these services for a pre-approved amount in accordance with a pre-approved schedule of costs and documentation of said labor and expense.
- h. Changes to the Management Plan.** From time to time, the Management Plan shall be revised by the City to reflect changes in best livestock management practices, changes in applicable laws, and changes in circumstances regarding the land or other natural features or events. If Licensee, after good faith consideration of the changes, does not agree to revisions to the Management Plan, the City or Licensee may terminate this License, effective at the end of a Grazing Season, by giving written notice pursuant to Section 27, below.
- i. Approved Types of Animals.** Subject to the Management Plan, the following types of animals are approved livestock for grazing in the Grazing Area: cattle. Licensee assumes full responsibility for the actions of all animals used by, owned by, or under the control of the Licensee. No other types of animals are allowed in the Grazing Area without prior written authorization from the City. The City reserves the right to order the removal of any animals it deems aggressive or objectionable for any reason. Upon request of the City, Licensee shall promptly remove such animals from the Grazing Area.
- j. Predator Control.** Licensee will be required to follow the Management Plan pertaining to Predator Control within the Grazing Area and/or Property. Prior to taking action, Licensee will be required to provide notice and receive approval from the City.

- k. **Herbicides and Pesticides.** Licensee will be required to follow the Management Plan and the City of American’s Integrated Pest Management Policy pertaining to vegetation management. At no time is the Licensee permitted to spray or use any herbicide or pesticide products containing RoundUp or ingredients that include RoundUp within the Grazing Area and/or Property. Licensee will be required to provide notice and receive approval from the City prior to conducting any herbicide or pesticide spraying activities or other vegetation management activities related to foraging on the Grazing Area and Property.
  - l. **Other Maintenance Obligations.** All maintenance obligations not identified as the obligation of Licensee in this License or the Management Plan shall be the responsibility of the City.
    - 1) **Monitoring and Reporting.** At its sole cost and expense, Licensee shall prepare and provide to the City a quarterly report of grazing. In addition, annual reporting may be required that includes the following: inspections, repairs, identity and status of maintenance projects, stocking rates per grazing unit, numbers of kind and class of animal, supplemental feed, stock rotations, and any other information reasonably required by the City and specified in the Management Plan.
    - 2) **Annual Meeting.** Licensee shall meet annually and on an as-needed basis with the City to discuss the annual report and discuss plans for grazing the following grazing year, maintenance and projects. This annual meeting should occur in May every year.
7. **Operations on the Property and Grazing Area.** At all times during the Term of this License, Licensee shall:
- a. **Comply with All Laws.** Comply with all local, state, and federal laws, ordinances, rules, and regulations applicable to the Property, and the Grazing Area, and the use and operation thereof by Licensee, including without limitation those pertaining to land use, health and safety, agriculture and livestock (“Applicable Laws”);
  - b. **Comply with Hazardous Substance Laws.** Comply with all Applicable Laws whether existing or new, which are related to the use, handling, treatment, or disposal of toxic or hazardous substances or relating to the control of rodents, other vermin, or noxious weeds on the Property and Grazing Area;
  - c. **Conduct Operations on the Grazing Area at Licensee’s Sole Cost and Expense.** Conduct its operations in the Grazing Area, solely at its own cost and expense (including without limitation the costs of inspection, maintenance and associated repairs, monitoring and reporting, labor and equipment, fuel, taxes, assessments, doctoring, vaccines, medications, antibiotics, wormers, insecticides, dust bags, minerals, salt, feed additives, and other drugs or supplies);
  - d. **Report Trespass.** Report to the City any incident of trespass on the Grazing Area and/or Property;

- e. **Lock Exterior Gates.** Keep exterior gates to the Property and Grazing Area always locked, except when public access is available. Licensee is required to provide the City with the key or combination to any lock installed by Licensee.
8. **Prohibited Uses.** Licensee shall not use the Grazing Area and/or Property in a manner which would have an adverse effect on the Grazing Area or any other portions of the Property or have an adverse effect on or be incompatible with the City's goals and objectives for the Grazing Area or any other portion of the Property, including the City's conservation and preservation objectives, as specified in the Management Plan. Prohibited uses of the Grazing Area and/or Property shall include, but are not limited to:
- a. **Excessive Grazing.** Grazing in violation of the Management Plan or excessive grazing resulting in the deterioration of grassland conditions;
  - b. **Paving.** Paving existing roads and trails or otherwise covering existing roads and trails with concrete, asphalt, or any other material, unless the City, in its sole discretion, grants written approval prior to the construction of said road and trail surface. In addition, Licensee is prohibited from constructing any new roads and trails unless written approval is obtained from the City prior to the construction, or as is otherwise specified in the Management Plan;
  - c. **Disturbance of Natural Conditions.** Disturbance of native, undisturbed soil with mechanical equipment (grading); removal of any dirt, gravel, or stones, (except to repair damage to pastures or improvements on the Property) nor alter any established drainage ways, terraces, or ditches;
  - d. **Drainage.** Disturbance or blockage of natural or artificial drainages such that excessive erosion occurs;
  - e. **Noxious Weeds.** Introducing noxious weeds;
  - f. **Hunting.** Hunting or other internal destruction or harassment of wildlife except for approved predator control;
  - g. **Removal of Vegetation.** Removal of live woody vegetation, except to the extent required for maintenance and except as permitted by the Management Plan;
  - h. **Fallen Trees.** Removal or disturbance of dead, standing, or fallen trees without prior written approval from the City. The removal of the fallen trees which are blocking a road is permitted;
  - i. **Grazing Outside the Grazing Area.** Permitting livestock to roam or graze on any lands outside of the Grazing Area;
  - j. **Cultural Artifacts.** Removal or disturbance of cultural artifacts;

- k. **Trash.** Dumping of trash or debris on the Property or allow trash or debris placed by Licensee to remain on Grazing Area or within livestock facilities;
  - l. **Dangerous Driving.** Speeding on paved or unpaved roads and trails, driving off-road when hillsides are wet, causing damage.
9. **Licensee's Default.** The occurrence of any of the following shall constitute an event of default (each "Event of Default") by Licensee (Licensee hereby waives any right to notice that Licensee may have under Section 1951.3 of the Civil Code; the terms of this Section being deemed such notice to Licensee as required by said Section 1951.3):
- a. **Abandonment.** Abandonment of the Grazing Area or the livestock;
  - b. **Failure to Pay Fees.** Licensee's failure to pay the Grazing Fees per the due date as outlined in Section 2 and such failure continues for a period of five (5) calendar days after the due date.
  - c. **Failure to Perform Obligations.** Licensee's failure to comply with any term of this License continuing for five (5) days after the City gives Licensee written notice of such failure (or for such longer period as is reasonably necessary to remedy such default, or to perform such repairs to restore the affected area(s) to the pre-disturbed condition, provided that Licensee within such five (5) day period commences and thereafter continuously and diligently pursues such remedy until such default is cured). The failure of the City to request repairs, or terminate this License, shall not be construed as an acceptance or waiver of any violations of any obligations, agreements, or covenants of this License.
  - d. **Bankruptcy.** A general assignment by Licensee for the benefit of creditors; the filing of a voluntary petition in bankruptcy by Licensee or the filing of any involuntary petition by Licensee's creditors, which involuntary petition remains un-discharged for 30 days; the employment of the receiver to take possession of all or substantially all of Licensee's assets or any part of the Grazing Area, if such receivership remains un-dissolved for 10 business days after the creation thereof; the attachment, execution or other judicial seizure of all or substantially all of Licensee's assets or any part of the Grazing Area, if such attachment or seizure remains un-dismissed or un-discharged for 10 business days after the levy thereof; the admission by Licensee in writing of its inability to pay its debts as they become due; the filing by Licensee of a petition seeking any reorganization, arrangement, composition, readjustment, liquidation, dissolution or similar relief under a present or future statute, law or regulation or the filing by Licensee of any answer admitting or failing to timely contest a material allegation of a petition filed against Licensee in such proceeding; or, if within 30 days after the commencement of a proceeding against Licensee seeking a reorganization, arrangement, composition, readjustment, liquidation, dissolution or similar relief under a present or future statute, law or regulation, such proceeding shall not have been dismissed.
10. **The City's Remedies.** The City shall have the following remedies if an Event of Default shall occur under this License. These remedies are cumulative and in addition to any other remedies now or hereafter allowed by law, and, except otherwise provided by California law in force and in effect at

the time of execution of this License, the City may pursue any and all such rights and remedies, whether at the same time or otherwise. No delay or omission of the City to exercise any right or remedy shall be construed as a waiver of any such right or remedy or of default by Licensee under this License.

- a. **License Remains in Effect.** The City may continue this License in effect by not terminating the Licensee's right to the Grazing Area, in which event the City shall be entitled to enforce all of its rights and remedies under this License, including the right to recover the fees specified in this License as they become due thereunder; or
- b. **Termination.** The City may terminate this License and recover from Licensee all damages proximately caused by the Default.
- c. **Removal.** If the City terminates this License by giving written notice to Licensee, the City may expel and remove cattle occupying the Grazing Area, by any lawful means, and exclude the same from any further use of the Grazing Area. No act by the City other than giving notice to Licensee shall terminate this License if an Event of Default should occur. Upon termination, the rights of Licensee hereunder in and to the Grazing Area shall cease and end, and Licensee and all persons claiming under Licensee shall quit and surrender their use of the Grazing Area to the City.

**11. Termination.**

- a. In Addition to any other rights of termination and suspension set forth in this agreement or at law, either Party may terminate this agreement with or without cause by providing ten (10) days' notice in writing to the other Party.
- b. The City may terminate this agreement at any time without prior notice in the event that the Licensee commits a material breach of the terms of this License.
- c. Upon the expiration or earlier termination of this License, Licensee, at its sole cost and expense shall remove all of Licensee's livestock, equipment, or personal property from the Grazing Area or Property. Licensee may not remove any fences, gates, cattle guards, or any improvement required to be installed or maintained by Licensee pursuant to the terms of this License or the Management Plan. In the event Licensee fails to remove its personal property, the City may elect to remove Licensee's personal property and recover the costs and expenses therefore from Licensee.

- 12. Inspection of Grazing Area.** The City and the agents and employees of the City shall have the right to enter the Grazing Area at any time for any reason, including to inspect the Grazing Area to protect any and all rights of the City, to post such notices as the City may desire, to protect the rights of the City and to show the Grazing Area to prospective buyers, lenders, and funders.

13. **Time of Essence.** Time is of the essence of this License and of all of the terms. Covenants, conditions, and obligations are contained herein.
14. **Captions.** The captioned readings in this License are for convenience of reference only and are not a part of this License and do not in any way limit or amplify the terms and provisions of this License. The terms the City and Licensee shall apply to the Parties as may be applicable without regard to gender or number.
15. **Governing Laws; Venue.** This License and the right and obligations of the parties shall be governed by, and construed in accordance with, the laws of the State of California. Venue for any action, suit, or proceedings to interpret or enforce the terms of this License shall be in the Superior Court of Napa County.
16. **Partial Invalidity.** If any term, covenant, or condition of this License or the application of this License to any person or circumstances shall, to any extent, be determined by a court of competent jurisdiction illegally, invalid or unenforceable because of present or future laws or any rule or regulation of any governmental body or entity or become unenforceable because of judicial construction, the remaining terms, covenants, and conditions of this License, other than those to which it is held invalid or unenforceable, shall not be affected thereby, and each term, covenant, and condition shall be valid and be enforced to the fullest extent permitted by law.
17. **No Acquired Rights.** Licensee's use of the Grazing Area hereunder shall not ripen into any title, or right in and to the Grazing Area or any other portion of the Property, and Licensee shall not make any claim of right or title, nor resist or assail the City's title, to the Grazing Area and to all other portions of the Property.
18. **Insurance.**
  - a. **Workers' Compensation.** During the term of this License, Licensee shall fully comply with the terms of the law of California concerning workers' compensation. Said compliance, shall include, but not be limited to, maintaining in full force and effect one or more policies of insurance insuring against any liability Licensee may have for workers' compensation.
  - b. **General Liability Insurance.** Licensee shall obtain at its sole cost and keep in full force and effect during the term of this License Commercial General Liability (CGL) insurance in the amount of One Million Dollars and No Hundredths (\$1,000,000.00) per occurrence for bodily injury, personal injury, and property damage. Said insurance shall provide:
    - 1.) That the City, its officers, agents, employees, and volunteers shall be named as additionally insured under the policy through separate written endorsement; and
    - 2.) That the policy shall operate as primary insurance; and

- 3.) That no other insurance effected by the City or other named insureds will be called upon to cover a loss covered thereunder.
  - c. **Automobile Liability Insurance.** Licensee shall obtain at its sole cost and keep in full force and effect during the term of this License automobile liability insurance in the amount of One Million Dollars and No Hundredths (\$1,000,000.00) per occurrence for bodily injury and property damage. Said insurance shall provide:
    - 1.) That the City, its officers, agents, employees, and volunteers shall be named as additional insureds under the policy through a separate written endorsement; and
    - 2.) That the policy shall operate as primary insurance; and
    - 3.) That no other insurance effected by the City or other named insureds will be called upon to cover a loss covered thereunder.
  - d. **Property Damage Insurance.** Licensee shall obtain at its sole cost and keep in force and effect during the term of this License property insurance in the amount of One Million Dollars and No Hundredths (\$1,000,000.00) per occurrence for property damage.
  - e. **Certificates of Insurance.** Licensee shall file, with the City's Executive Director upon the execution of this License, certificates of insurance which shall provide that no cancellations, major change in coverage, expiration, or nonrenewal will be made during the term of this License, without thirty (30) days written notice to the Executive Director prior to the effective date of such cancellation or change in coverage.
19. **Utilities.** Licensee shall pay the power bill. If there is a major change due to the action of the City or County, this clause may be renegotiated.
20. **Indemnity.** Licensee shall indemnify, defend, and hold harmless the City, its elected and appointed officials, officers, agents, attorneys, employees, and volunteers against any and all losses, damages, expenses, or liabilities arising out of Licensee's performance under this License, except to the degree that such loss, damage, expense, or liability may have arising out of the willful misconduct of the City, its elected and appointed officials, officers, agents, attorneys, employees, and volunteers. In the event this indemnity is not enforceable, Licensee shall indemnify the City to the maximum extent allowed by law.
21. **Claims Against Licensee.** Licensee shall inform the City of any claim against Licensee arising out of the exercise of this Licensee or use of the Grazing Area or any other portions of the Property within ten (10) days after Licensee's receipt of such claim. Licensee shall indemnify the City, its elected and appointed officials, officers, agents, attorneys, employees, and volunteers against any loss or damage arising from Licensee's failure or delay in doing so.
22. **Compliance with Laws.** Licensee shall comply with all local, state and federal laws and regulations including, but not limited to, those laws, whether existing now or later, which relate to the use,



30. **Prior Agreements.** This License supersedes any prior agreements, leases, licenses, or permits between the City and the Licensee respecting the Grazing Area and all other portions of the Property, and all such agreements, leases, licenses, or permits are hereby terminated.
31. **Authority.** The Parties warrant that the persons executing this License on their behalf are authorized to do so, and on the execution of this License, this License shall be valid and enforceable against the City and Licensee.
32. **Entire Agreement.** This License contains the entire agreement between the Parties as to the subject matter hereof and supersedes any prior written or oral understanding. All modifications or revisions of this License shall be in writing and signed by the Party against whom enforcement of any such modification or revision is sought.

(Signatures on the following page)

IN WITNESS THEREOF, the City of American Canyon and the Licensee do hereby agree to the full performance of the terms set forth herein.

**CITY OF AMERICAN CANYON**

DocuSigned by:  
By: Jason Holley  
607306239971464...  
Jason B. Holley  
City Manager  
Date: 7/11/2022

**LICENSEE**

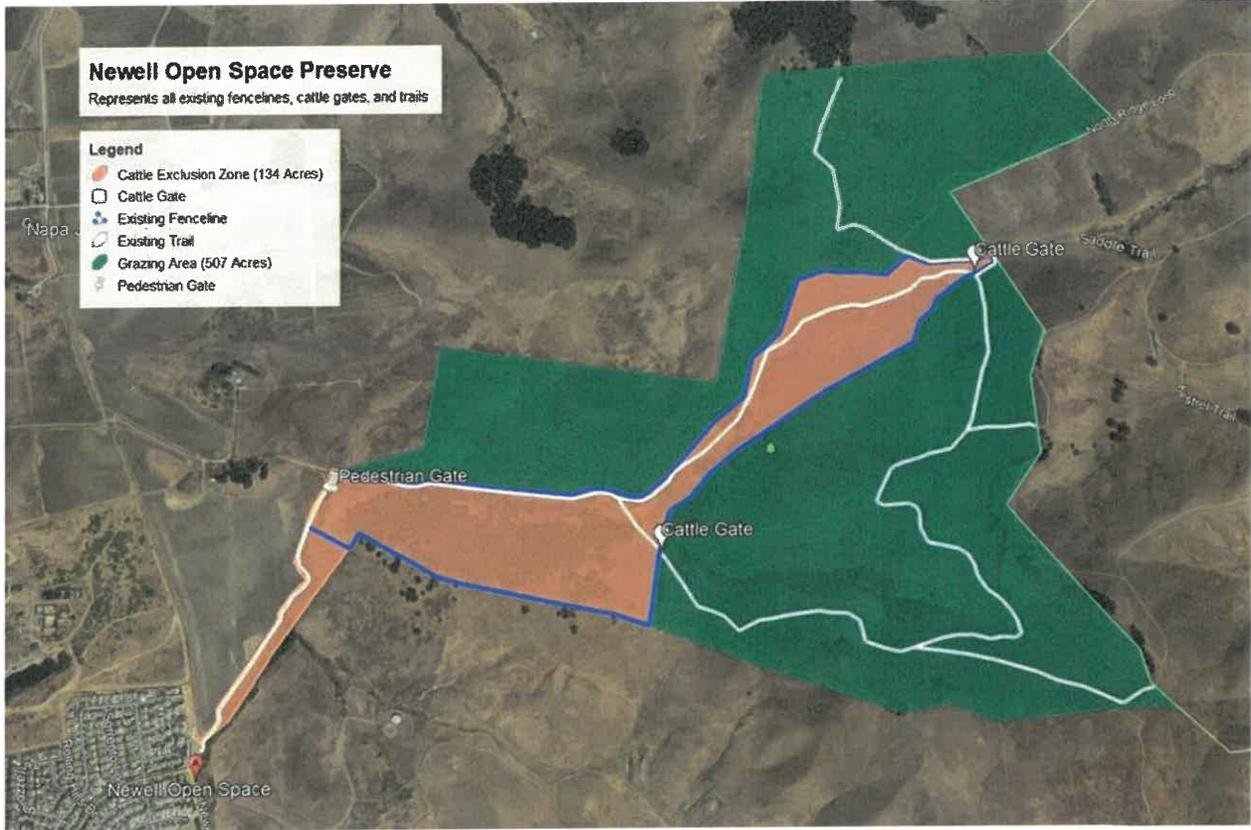
By: Ralph Azevedo  
Name: RALPH AZEVEDO  
Title: PARTNER  
Date: 7/8/22

**APPROVED AS TO FORM**

DocuSigned by:  
By: William Ross  
285D50133D93421...  
William D. Ross, City Attorney  
7/11/2022

### EXHIBIT A

### NEWELL OPEN SPACE PRESERVE GRAZING AREA



**EXHIBIT B**

NEWELL OPEN SPACE PRESERVE  
LICENSEE RESPONSIBILITIES (INFRASTRUCTURE, MONITORING, AND MAINTENANCE)

Subject	City obligations	Licensee obligations
<b>New Infrastructure</b>	Plan and authorize all new infrastructure and major repairs.	
<b>Public access (PA)</b>	Notify Licensee of public events or activities (outside regular PA).	Notify the City of stock operation days restricting public use or other projects.
<b>Livestock Operations (LO)</b>		<ul style="list-style-type: none"> <li>• Pay all expenses, conduct all activities of Livestock Operations.</li> <li>• Keep Livestock Operations and cattle out of Exclusion Zone of the Property, unless otherwise asked by the City.</li> <li>• Services, materials, water, gas, electricity, and other substances used related to Livestock Operations and cattle – Full Cost to Licensee.</li> </ul>
<b>Roads and Trails</b>	<ul style="list-style-type: none"> <li>• Approve and inspect road, trail, and parking lot maintenance.</li> <li>• Repair, fix, and maintain roads and trails throughout the property where damage is caused by the public, natural cracking, landslides, slumping, or erosion– Full Cost to the City.</li> </ul>	<ul style="list-style-type: none"> <li>• Repair, fix, and maintain roads and trails within the Grazing Area that are damaged by cattle and/or Livestock Operations – Full Cost to Licensee.</li> <li>• Conduct trail-smoothing and resurfacing maintenance twice a year, and/or as needed within the Grazing Area due to damage caused by cattle and/or Livestock Operations – Full Cost to Licensee.</li> </ul>
<b>Drainage structures</b>	Review and approval maintenance and improvement plans. Plan and authorize new infrastructure.	Notify the City of any problems or issues. Provide maintenance and repairs due to damage caused by Livestock Operations and Cattle - Full Cost to Licensee.
<b>Fences</b>	<ul style="list-style-type: none"> <li>• Repair and maintain all property fences as needed, and/or damage caused by the public – Full Cost to City.</li> </ul>	Maintain and repair all Grazing Area fences throughout the Property. Replace all Grazing Area Fences damaged by cattle or

		Livestock Operations – Full Cost to Licensee.
<b>Livestock Watering Facilities</b>	<ul style="list-style-type: none"> <li>• Share cost on new facilities and infrastructure.</li> <li>• Repair, fix, and maintain water facilities, troughs, tanks, and water systems (including pipe, etc.) that are damaged by the Public – Full Cost to the City.</li> </ul>	<ul style="list-style-type: none"> <li>• Share cost on new facilities and infrastructure.</li> <li>• Maintain, repair, and replace water facilities, troughs, tanks, and water systems (including pipes, etc.) used specifically for Livestock Operations and Cattle – Full Cost to Licensee.</li> </ul>
<b>Gates</b>	<ul style="list-style-type: none"> <li>• Plan and authorize any new gates.</li> <li>• Repair, fix, and maintain gates throughout the Property as needed or when damage is caused by the public – Full Cost to the City.</li> </ul>	Replace, repair, and maintain gates used for and/or damaged by Livestock Operations and cattle – Full Cost to Licensee.
<b>Weed Control</b>	Review and approve weed control methods within Grazing Area and Property.	Control weeds within Grazing Area per Management Plan and the City’s Integrated Pest Management Policy – Full Cost to Licensee.
<b>Restoration Projects</b>	Implement and maintain restoration Projects.	Repair major damage to restoration projects caused by Livestock Operations and/or cattle – Full Cost to Licensee.
<b>Trespassing and/or Dumping</b>	Handle the issue of persistent trespassing and dumping by others.	Notify the City of any problems, and/or issues.
<b>Monitoring and Reporting</b>	Manage and Operate the Newell Open Space Preserve, including all areas of the Property and Grazing Area.	Provide quarterly reporting of Livestock Operations and Cattle conducted within the Grazing Area and Property.



FARM  
FL 706 10 01 01

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

## **ADDITIONAL INSURED - DESIGNATED OPERATION, LOCATION OR EQUIPMENT COVERAGE ENDORSEMENT**

This endorsement modifies insurance provided under the following:  
FARM LIABILITY COVERAGE FORM

This endorsement applies only to the person(s) or organization(s) identified on Form 8110 (Additional Endorsement Information) of this policy.

Under Section C. WHO IS AN INSURED, in paragraph 2., each of the following is also an insured:

The persons or organizations shown on Form 8110, but only with respect to liability arising out of the designated operation or location or your use of equipment shown on Form 8110, subject to the following additional exclusion:

This insurance, including any duty we have to defend "suits", does not apply to "bodily injury", "property damage" or "personal and advertising injury" that arises out of, in whole or in part, or is a result of, in whole or in part, the active or primary negligence of any person or organization designated as an additional insured on Form 8110.

**All terms and conditions of this policy apply unless modified by this endorsement.**



**TITLE**

Update on Newell Open Space Trail and Parking Lot Scope of Work

**RECOMMENDATION**

Information Only

**CONTACT**

Erica Ahmann Smithies, PE, Public Works Director

**ENVIRONMENTAL REVIEW**

None

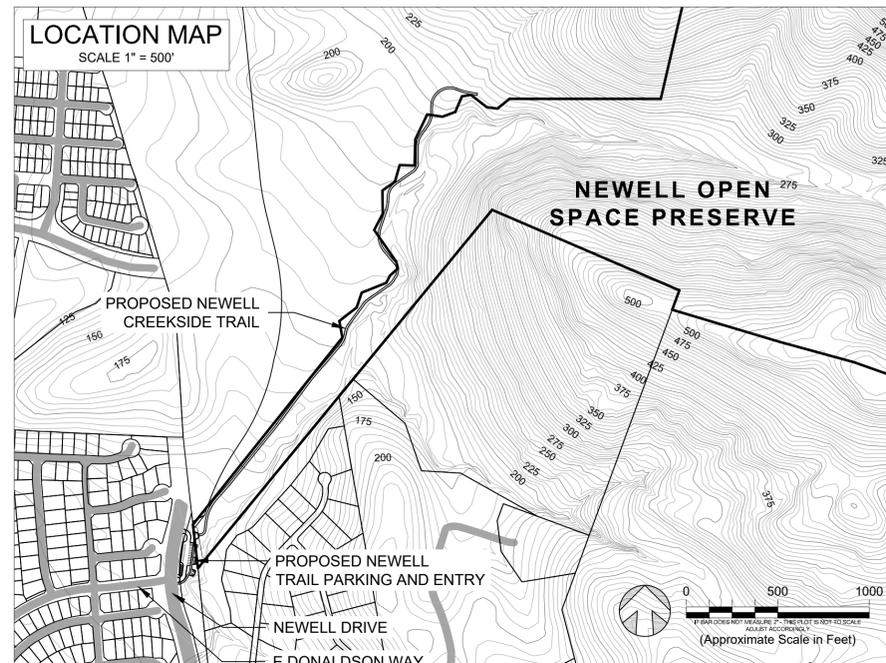
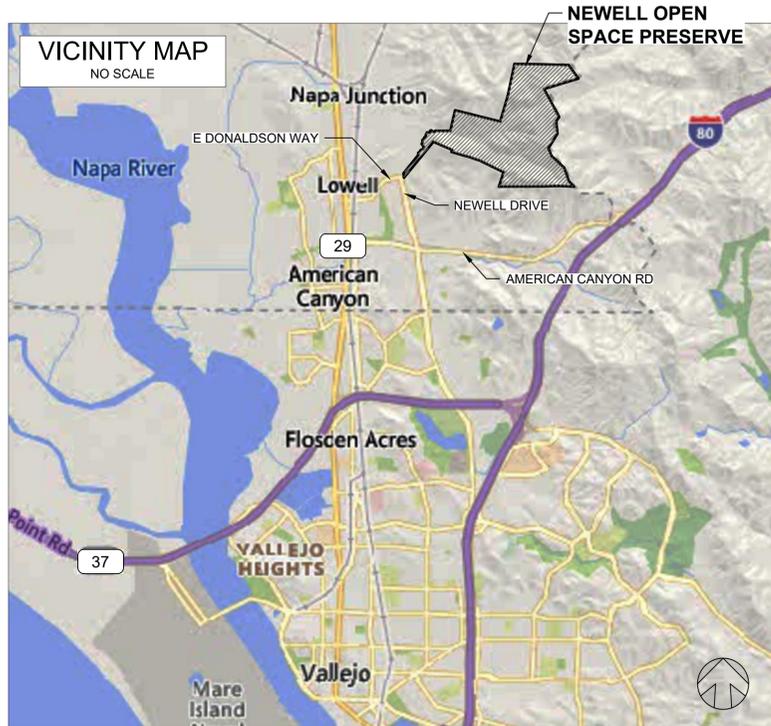
**ATTACHMENTS:**

1. [Newell Open Space 90% Plans](#)
2. [Newell Cost Cost Estimate](#)



**BEFORE EXCAVATING  
CALL U.S.A.  
UNDERGROUND SERVICE ALERT  
800-642-2444  
TWO WORKING DAYS BEFORE ALL  
PLANNED WORK OPERATIONS**

# CITY OF AMERICAN CANYON DEPARTMENT OF PARKS AND RECREATION PLANS FOR CONSTRUCTION OF **NEWELL OPEN SPACE PRESERVE TRAIL AND PARKING IMPROVEMENTS**



**SHEET INDEX:**

Sheet Number	Sheet Title
1	TITLE SHEET
2	KEYMAP
3	EROSION CONTROL PLAN
4	PARKING & ENTRY - DEMO
5	PARKING & ENTRY - LAYOUT
6	NEWELL - DONALDSON
7	PARKING & ENTRY - GRADING
8	TRAIL PLAN & PROFILE (1)
9	TRAIL PLAN & PROFILE (2)
10	TRAIL PLAN & PROFILE (3)
11	TRAIL PLAN & PROFILE (4)
12	TRAIL PLAN & PROFILE (5)
13	TRAIL PLAN & PROFILE (6)
14	TRAIL PLAN & PROFILE (7)
15	TRAIL SECTIONS (1)
16	TRAIL SECTIONS (2)
17	SITE IMPROVEMENT DETAILS (1)
18	SITE IMPROVEMENT DETAILS (2)
19	SITE IMPROVEMENT DETAILS (3)

**GENERAL NOTES**

- DESIGN INTENT:** THESE PLANS AND SPECIFICATIONS REPRESENT THE DESIGN INTENT OF QUESTA ENGINEERING CORPORATION (THE ENGINEER), AS APPROVED BY THE OWNER, NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT. THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS SHOWN ON THESE PLANS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS AND ASSOCIATED RISK AND EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A COPY OF THE APPROVED PLANS AND SPECIFICATIONS AND ANY ADDENDA AT THE JOB SITE AT ALL TIMES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY UNFORESEEN CIRCUMSTANCES OR CONDITIONS THAT WOULD ALTER THESE PLANS AND SPECIFICATIONS FOR APPROVAL OF MODIFICATIONS TO THE INTENDED DESIGN.
- COMPOSITE GROUND MAP:** THE PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS ARE SUPERIMPOSED ON A BASE MAP. THIS BASE MAP IS COMPILED FROM A SURVEY, AND OTHER DATA AS MADE AVAILABLE TO THE ENGINEER, WHO SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS OR OTHER ERRORS ON THESE DOCUMENTS. THE COMPOSITE BASE MAP IS PROVIDED AS AN AID ONLY AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS AND INCORPORATING/INTEGRATING ALL CONSTRUCTION AS REQUIRED TO ACCOMMODATE THE SAME.
- MATERIALS AND WORKMANSHIP:** ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE NAPA COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING STANDARD PLANS AND SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, AND THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- PRE-CONSTRUCTION MEETING:** A PRE-CONSTRUCTION MEETING SHALL BE ARRANGED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF WORK. THE MEETING SHALL BE ATTENDED BY THE OWNER, CONTRACTOR (INCLUDING SITE FOREMAN AND KEY PERSONNEL), ENGINEER, AND REPRESENTATIVES OF ANY INVOLVED REGULATORY AGENCIES. PROSPECTIVE PARTICIPANTS SHALL BE NOTIFIED OF THE MEETING A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE MEETING. THE PURPOSE OF THE MEETING IS TO REVIEW THE WORK PLAN AND PROVIDE CLARIFICATIONS, REVIEW JOB REQUIREMENTS, AND DISCUSS CONDITIONS OF ANY PERMITS. SPECIAL ATTENTION WILL BE PAID TO ANY WETLANDS, SOIL EROSION AND WATER QUALITY PROTECTION REQUIREMENTS. NOTICE FOR THE CONTRACTOR TO PROCEED WITH WORK SHALL BE PROVIDED AT COMPLETION OF THE PRE-CONSTRUCTION MEETING.

- RESOURCE PROTECTION:** THE CONTRACTOR IS ADVISED OF THE PRESENCE OF SENSITIVE RESOURCES LOCATED NEAR PROJECT WORK AREAS. THE TRAIL ALIGNMENT, FENCING, STAGING AREAS AND ALL OTHER PROJECT FACILITIES HAVE BEEN CAREFULLY LOCATED TO AVOID PHYSICAL DISTURBANCE OF SENSITIVE RESOURCES. THE LIMITS OF WORK ARE SHOWN ON THE DRAWINGS. ALL CONTRACTOR ACTIVITIES, INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION ACTIVITIES, VEHICLE MAINTENANCE, AND MATERIALS AND EQUIPMENT STORAGE AND STAGING, MUST BE STRICTLY CONFINED TO THE WORK AREAS SHOWN ON THE DRAWINGS. THE LIMITS OF WORK WILL BE CAREFULLY LOCATED IN THE FIELD BY THE CONTRACTOR AND ENGINEER OF RECORD, AND ALL WORK LIMIT AREAS WILL BE PROTECTED BY STRAW WATTLES, CONSTRUCTION BARRIER FENCING, OR SILT FENCING AS SHOWN ON THE DRAWINGS.  
  
THE DISTRICT WILL PROVIDE A QUALIFIED BIOLOGICAL MONITOR THAT WILL INITIALLY REVIEW SITE CONSTRUCTION PROTOCOLS WITH ALL CONSTRUCTION CONTRACTOR EMPLOYEES AT A PRE-CONSTRUCTION MEETING THAT WILL BE SPECIFICALLY HELD ON RESOURCE PROTECTION. EACH EMPLOYEE ASSIGNED TO THIS PROJECT MUST PARTICIPATE IN THIS PRE-CONSTRUCTION MEETING AND DISCUSSION OF ADJACENT SENSITIVE RESOURCES, AND SIGN A STATEMENT INDICATING THAT THEY HAVE READ AND UNDERSTAND THE PROTOCOLS AND AGREE TO ADHERE TO THEM. ANY BREACH OF PROTOCOL WILL RESULT IN THAT EMPLOYEE BEING IMMEDIATELY PROHIBITED FROM ANY WORK AT THE PROJECT SITE. SIGNIFICANT BREACHES OF PROTOCOL AND FAILURE TO ADEQUATELY PROVIDE THE DEGREE OF RESOURCE PROTECTION REQUIRED BY THIS PROJECT WILL RESULT IN THE ISSUANCE OF A STOP WORK ORDER BY THE ENGINEER OR BY THE BIOLOGICAL MONITOR.  
  
THE DISTRICT PROVIDED BIOLOGICAL MONITOR WILL CAREFULLY INSPECT ALL WORK AREAS FOR THE PRESENCE OF WILDLIFE PRIOR TO INSTALLATION OF PROTECTIVE BARRIER FENCING AND FIELD FENCING, AND PRIOR TO INITIATION OF CONSTRUCTION EACH DAY.  
  
CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PENALTIES AND ALL REPAIRS AND MITIGATIONS IMPOSED DUE TO BREACH OF PROTOCOL AND UNAUTHORIZED INTRUSION INTO SENSITIVE RESOURCE AREAS.
- COMPLETION SCHEDULE:** CONTRACTOR SHALL PROVIDE DISTRICT WITH A PROJECT CONSTRUCTION COMPLETION SCHEDULE WITHIN 72-HOURS OF AWARD OF CONTRACT AND REVIEW THIS SCHEDULE AND ANY CHANGES AT PRE-CONSTRUCTION MEETING. SITE IMPROVEMENTS, INCLUDING TRAIL CONSTRUCTION MUST BE COMPLETED PRIOR TO THE DATE SPECIFIED IN THE CONTRACT DOCUMENTS.

- UTILITIES:** CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES IN THE PROJECT AREA A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR MUST INVESTIGATE AND VERIFY THE LOCATION OF ANY EXISTING UTILITIES WITHIN THE PROJECT AREA. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE, AND PROTECT ALL UTILITIES. ANY UTILITIES PLOTTED ON THE PLANS ARE CONSIDERED TENTATIVE AND APPROXIMATIONS AND THEREFORE, NO WARRANTY EXPRESSED OR IMPLIED IS MADE AS TO THE COMPLETENESS OR CORRECTION OF THEIR LOCATION. THE UTILITY COMPANIES ARE THOUGHT TO BE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ON-CALL PROGRAM. THE CONTRACTOR SHALL NOTIFY U.S.A. 72-HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK AT 1-800-227-2600, 7:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY. EXISTING PUBLIC UTILITIES SHALL BE KEPT IN SERVICE AT ALL TIMES. UTILITIES THAT INTERFERE WITH THE WORK TO BE PERFORMED SHALL BE PROTECTED AS REQUIRED BY THE DISTRICT, PG&E, AT&T, AND ALL OTHER AFFECTED AGENCIES.
- DAMAGE AND PROTECTION OF EXISTING FACILITIES:** CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING FACILITIES, AND ANY OTHER IMPROVEMENTS FROM DAMAGE RESULTING FROM CONTRACTOR'S WORK, INCLUDING ALL UTILITIES, PUBLIC AND PRIVATE. CONTRACTOR SHALL EXERCISE CARE TO AVOID EXCESSIVE DAMAGE TO EXISTING PUBLIC PROPERTY, INCLUDING STREETS, PARKING AREAS, NATIVE TREES, SHRUBS, WETLANDS, AND OTHER PROPERTY IMPROVEMENTS. IF CONTRACTOR CAUSES DAMAGES TO SUCH ITEMS, THEY SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT IN LIKE NUMBER, KIND, CONDITION AND SIZE. THE COST OF REPAIRS AND REPLACEMENT OF DAMAGED PROPERTY SHALL BE AT THE CONTRACTOR'S EXPENSE. ANY SUCH COSTS MAY BE DEDUCTED BY THE DISTRICT FROM MONIES DUE CONTRACTOR UNDER THIS CONTRACT.
- JOB SITE CONDITIONS, TRAFFIC CONTROL AND CONTRACTOR RESPONSIBILITY:** CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, TRAFFIC CONTROL, AND ACCESS TO AND FROM ADJOINING DRIVEWAYS AND STREETS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD DISTRICT AND THE ENGINEER (QUESTA ENGINEERING CORPORATION) HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FROM LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT OR THE ENGINEER. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION, INCLUDING SAFETY OF PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

- ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AS SET FORTH BY THE FEDERAL DEPARTMENT OF LABOR AND/OR THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY (CAL/OSHA) PRIOR TO EXCAVATION OF ANY TRENCH GREATER THAN FIVE (5) FEET IN DEPTH.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALTRANS MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OF WORK ZONES. ALL SIGNS SHALL BE APPROPRIATELY CONSTRUCTED WITH REFLECTIVE MATERIAL ON A BACKING OF METAL OR FABRIC (NO WOOD OR PLASTIC ALLOWED) AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROVIDE PROPER VISIBILITY, PER SECTION 12 OF THE CALTRANS SPECIAL PROVISIONS.
- CLARIFICATION, CHANGE ORDERS, AND ADDITIONAL WORK:** SHOULD ANY CONTRACTOR OR SUBCONTRACTOR FIND ANY DEFICIENCIES, ERRORS, CONFLICTS, OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS, OR SHOULD THERE BE ANY DOUBT AS TO THEIR MEANING OR INTENT, THEN THE CONTRACTOR SHALL NOTIFY JOINTLY, DISTRICT AND THE DESIGN ENGINEER (QUESTA ENGINEERING CORPORATION) FOR A WRITTEN CLARIFICATION, ADDENDUM, ETC. SHOULD THE CONTRACTOR FAIL TO DO SO BEFORE SUBMITTING AN INVOICE FOR ADDITIONAL WORK, THE CONTRACTOR CANNOT CLAIM ADDITIONAL COMPENSATION FOR WORK REQUIRED TO COMPLETE THE PROJECT. THE EXCEPTION IS EMERGENCY WORK AS DEFINED IN THE CALTRANS STANDARDS.
- THE DISTRICT OR ENGINEER OF RECORD, ACTING ON BEHALF OF THE DISTRICT, MAY REQUIRE PLAN REVISIONS DUE TO UNFORESEEN CIRCUMSTANCES AND CONFLICTS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY JOINTLY THE DISTRICT AND THE ENGINEER OF RECORD OF ANY SUCH WORK THAT IS ADDITIONAL AND SUBMIT A WRITTEN COST-ESTIMATE FOR SUCH WORK. "EXTRA WORK" AND WRITTEN CHANGE ORDERS WILL BE EXECUTED UPON THE RECOMMENDATION OF THE ENGINEER.
- PAYMENTS:** PAYMENT SHALL BE BASED ON COMPLETED CONTRACTOR'S BID SHEET AND ISSUED WRITTEN CHANGE ORDERS. THE ENGINEER OF RECORD SHALL VERIFY FIELD MEASUREMENTS AND CONTRACTOR QUANTITY ESTIMATES, WHERE APPLICABLE, AND UNLESS OTHERWISE NOTED.
  - MISCELLANEOUS:** WRITTEN DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS IF THERE IS A CONFLICT. THE CONTRACTOR SHALL JOINTLY CONTACT THE DISTRICT AND QUESTA ENGINEERING CORPORATION TO OBTAIN ADDITIONAL CLARIFICATION. NO DEVIATION OR SUBSTITUTION SHALL BE ALLOWED WITHOUT OBTAINING PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

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City of American Canyon, CA  
Department of Parks and Recreation



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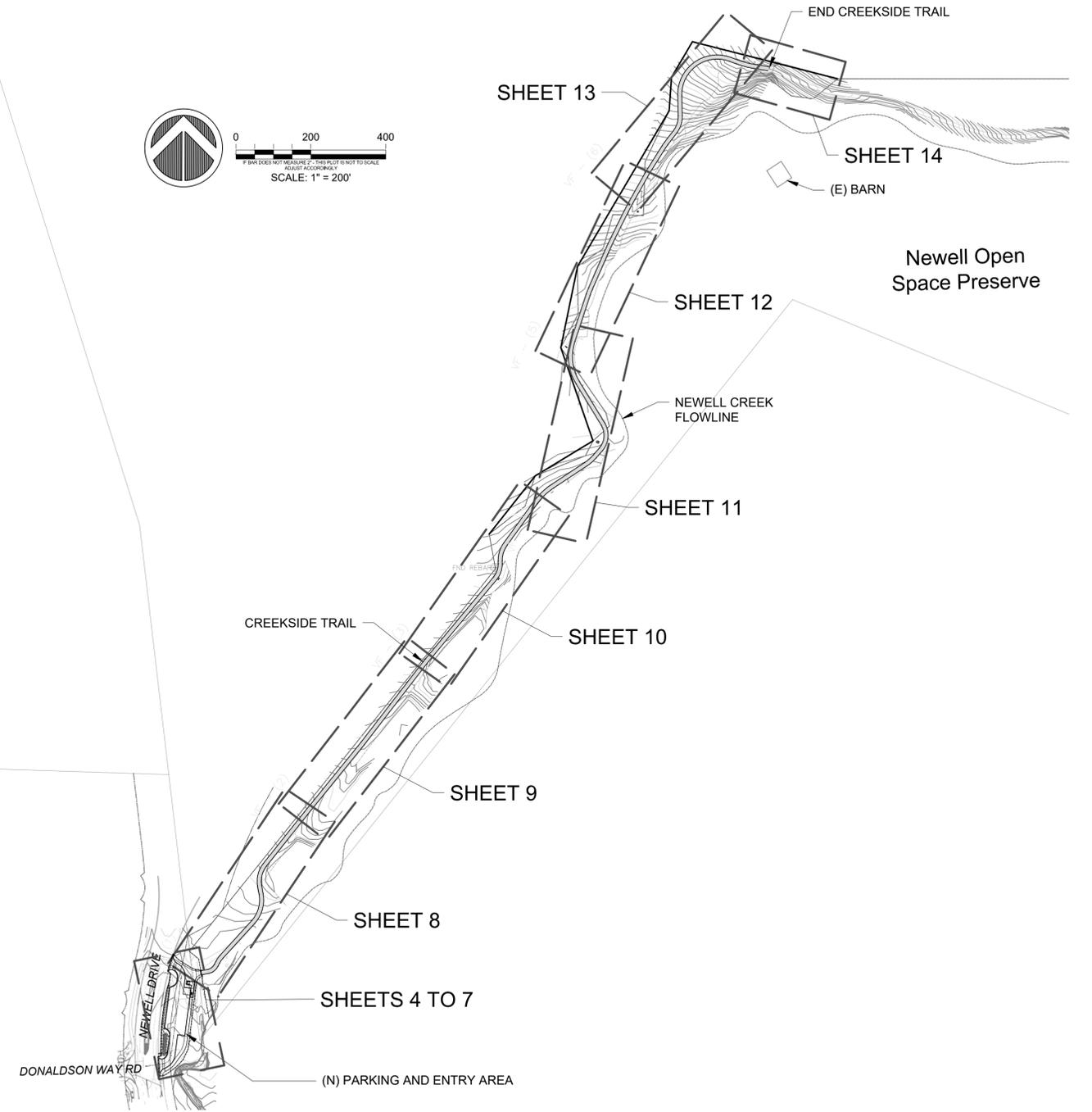
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**TITLE SHEET**

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Sheet:	1 of 20

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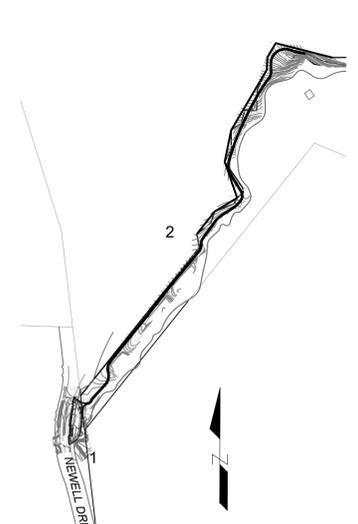
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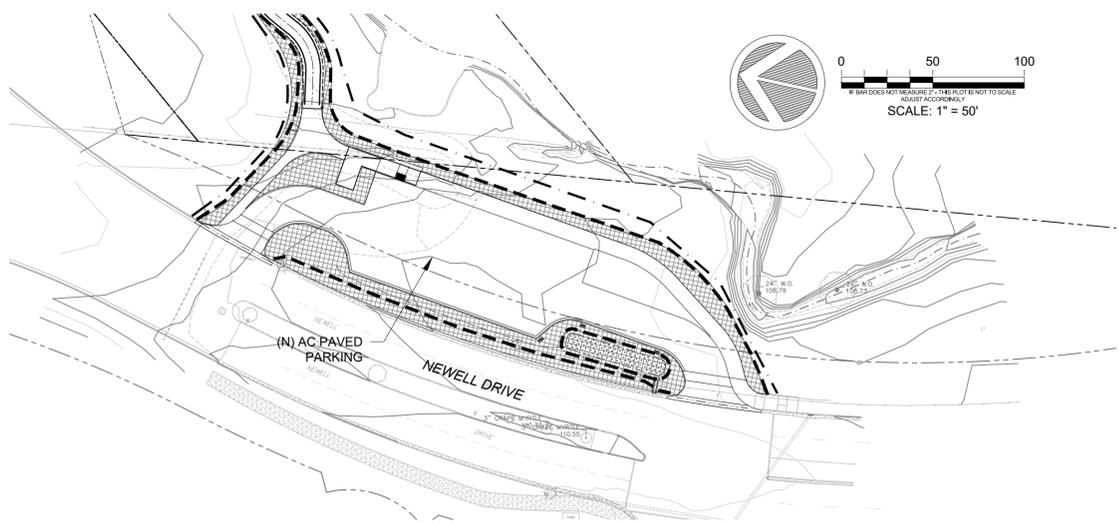
**KEYMAP**

Size	Project
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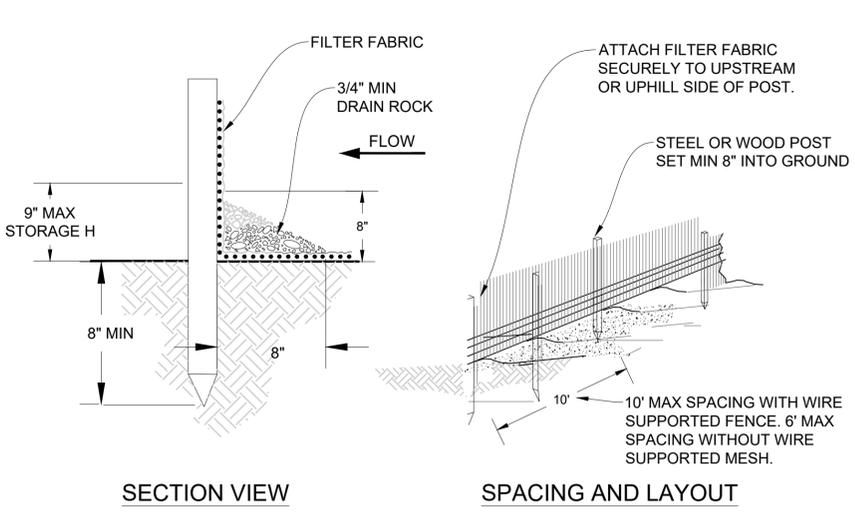
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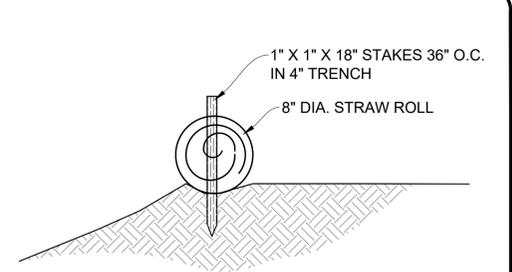
**EROSION CONTROL KEY PLAN**



**1 ENTRY AREA EROSION CONTROL PLAN**  
Scale: 1" = 50'

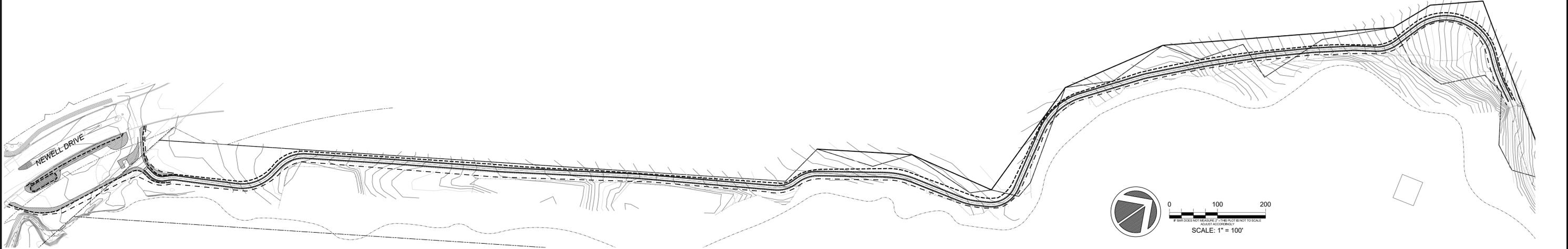


**3 TEMPORARY SILT / ESA FENCE**  
NTS



**4 FIBER ROLL**  
NTS

- NOTES:**
1. PLACE THE LOOSE EDGE OF THE FIBER ROLLS INTO A 4-INCH DEEP TRENCH AND SECURE WITH A SINGLE ROW OF STAPLES INSTALLED ON 12-INCH CENTERS
  2. POSITION THE FIBER ROLLS INTO THE TRENCH ADJACENT TO THE SIDEWALK/BACK OF CURB/BACK OF V-DITCH
  3. DRIVE WOODEN 18-INCH STAKES THROUGH THE ROLL ON APPROXIMATELY 3-FOOT CENTERS TO SECURE IN PLACE
  4. USE COCONUT ROLLS FOR PERMANENT PLACEMENT



**2 CREEKSIDE TRAIL EROSION CONTROL PLAN**  
Scale: 1" = 50'

**EROSION CONTROL LEGEND**

- SILT FENCE, PER DETAIL 3
- FIBER ROLLS, PER DETAIL 4
- ▨ HYRDOSEED AND HYDROMULCH

**EROSION CONTROL NOTES**

1. GRADING, EROSION CONTROL PRACTICES, AND SEDIMENT CONTROL PRACTICES SHALL MEET THE DESIGN CRITERIA SET FORTH IN THE MOST RECENT VERSION OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICE HANDBOOK AND SHALL BE ADEQUATE TO PREVENT TRANSPORTATION OF SEDIMENT FROM THE SITE TO ANY OFFSITE AREA TO THE SATISFACTION OF THE ENGINEER.
2. CLEARING, EXCEPT THAT NECESSARY TO ESTABLISH SEDIMENT CONTROL DEVICES, SHALL NOT BEGIN UNTIL ALL SEDIMENT CONTROL DEVICES HAVE BEEN INSTALLED AND HAVE BEEN STABILIZED.
3. SUFFICIENT EROSION AND SEDIMENT CONTROL SUPPLIES SHALL BE AVAILABLE ON SITE DURING THE RAINY SEASON (OCTOBER THROUGH APRIL) TO PROTECT AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS. CONTRACTORS SHALL BE PREPARED YEAR-ROUND TO DEPLOY EROSION AND SEDIMENT TREATMENT CONTROL PRACTICES.
4. SOIL DISTURBANCE WORK SHALL BE CONDUCTED DURING DRY WEATHER.
5. THE CONTRACTOR SHALL PROVIDE A SWPPP PRIOR TO THE COMMENCEMENT OF WORK.
6. THE CONTRACTOR SHALL PROVIDE ADEQUATE MATERIALS MANAGEMENT, INCLUDING COVERING, SECURING, AND SEGREGATING POTENTIALLY TOXIC MATERIALS (ASPHALT, HERBICIDES, PESTICIDES, FERTILIZER, GREASE, OILS, FUEL, PAINTS, STAINS, SOLVENTS, WOOD PRESERVATIVES, ETC.), AND PROVIDING SECONDARY CONTAINMENT FOR HAZARDOUS MATERIALS.
7. THE CONTRACTOR SHALL PROVIDE TRAINING AND EQUIPMENT TO CONTAIN SPILLS OF OIL AND OTHER HAZARDOUS MATERIALS.
8. PAVING OPERATIONS SHALL BE CONDUCTED IN A MANNER THAT PROPERLY DISPOSES OF WASTES AND IN WHICH MEASURES TO CONTROL RUN ON AND PREVENT RUNOFF FROM AREAS BEING PAVED ARE IMPLEMENTED.
9. SANITARY FACILITIES OF SUFFICIENT NUMBER AND SIZE TO ACCOMMODATE CONSTRUCTION CREWS SHALL BE LOCATED AWAY FROM STORM DRAIN INLETS AND DRAINAGE FACILITIES, AND ANCHORED TO PREVENT BEING BLOWN OVER OR TIPPED BY VANDALS. THE FACILITIES SHALL BE MAINTAINED IN GOOD WORKING ORDER AND EMPTIED AT REGULAR INTERVALS BY A LICENSED SANITARY WASTE HAULER.
10. SOIL STABILIZATION SHALL BE COMPLETED WITHIN FIVE DAYS OF CLEARING OR INACTIVITY IN CONSTRUCTION.
11. CONTRACTOR SHALL AVOID DISTURBING LAND IN SENSITIVE AREAS AND TO PRESERVE EXISTING VEGETATION WHEREVER POSSIBLE.
12. MAJOR GRADING OPERATIONS SHALL BE SCHEDULED DURING DRY MONTHS WHEN PRACTICAL, AND SHALL ALLOW ADEQUATE TIME AS SPECIFIED IN REGULATORY PERMITS BEFORE RAINFALL BEGINS TO STABILIZE THE SOIL WITH EROSION CONTROL MATERIALS.
13. SEEDING AND MULCHING SHALL BE DONE AFTER GRADING IS COMPLETE. CONTRACTOR SHALL WAIT TO SEED AND MULCH UNTIL OCT 1 TO LIMIT BIRD PREDATION
14. IF SEEDING OR ANOTHER VEGETATIVE EROSION CONTROL METHOD IS USED, THE VEGETATIVE COVER SHALL BECOME ESTABLISHED WITHIN A TIME-FRAME APPROVED BY THE ENGINEER, OR THE ENGINEER MAY REQUIRE THE SITE TO BE RE-SEEDED OR A NON-VEGETATIVE OPTION EMPLOYED.
15. SPECIAL TECHNIQUES THAT MEET THE DESIGN CRITERIA OUTLINED IN THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICE HANDBOOK ON STEEP SLOPES OR IN DRAINAGE WAYS SHALL BE USED TO ENSURE STABILIZATION.
16. SOIL STOCKPILES MUST BE STABILIZED AND/OR SECURELY COVERED AT THE END OF EACH WORKDAY.
17. IN AREAS WHERE PERMANENT RE-SEEDING AND PLANTING IS NOT ESTABLISHED AT THE CLOSE OF THE CONSTRUCTION SEASON, ADDITIONAL CONTROL MEASURES SHALL BE USED, SUCH AS A HEAVY MULCH LAYER OR ANOTHER METHOD THAT DOES NOT REQUIRE GERMINATION, TO ENSURE SOIL STABILIZATION AT THE SITE.
18. WHERE RUNOFF NEEDS TO BE DIVERTED FROM ONE AREA AND CONVEYED TO ANOTHER, EARTH DIKES, DRAINAGE SWALES, SLOPE DRAINS OR OTHER SUITABLE PRACTICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN CRITERIA SET FORTH IN THE MOST RECENT VERSION OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICE HANDBOOK.
19. TECHNIQUES SHALL BE EMPLOYED TO PREVENT THE BLOWING OF DUST OR SEDIMENT FROM THE SITE.
20. TECHNIQUES THAT DELIVER UPLAND RUNOFF PAST DISTURBED SLOPES SHALL BE EMPLOYED WHEN DETERMINED NECESSARY BY THE PROJECT ENGINEER.
21. LINEAR SEDIMENT BARRIERS SHALL BE PLACED BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, DOWN-SLOPE OF EXPOSED SOIL AREAS, AROUND SOIL STOCKPILES, AND AT OTHER APPROPRIATE LOCATIONS ALONG THE SITE PERIMETER.
22. STREET SWEEPING SHALL BE CONDUCTED ON AN AS NEEDED BASIS TO REMOVE SEDIMENT FROM STREETS AND ROADWAYS AND TO PREVENT THE SEDIMENT FROM ENTERING STORM DRAINS OR RECEIVING WATERS.
23. EVERY STORM DRAIN INLET WITH THE POTENTIAL TO RECEIVE SEDIMENT-LADEN RUNOFF SHALL BE PROTECTED IN ACCORDANCE WITH THE DESIGN CRITERIA SET FORTH IN THE MOST RECENT VERSION OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICE HANDBOOK. INLET PROTECTION SHALL BE INSPECTED AND MAINTAINED FREQUENTLY.
24. SEDIMENT BASINS OR SEDIMENT TRAPS SHALL BE INSTALLED ON PROJECTS WHERE SEDIMENT-LADEN WATER MAY ENTER THE DRAINAGE SYSTEM OR WATERCOURSES AND IN ASSOCIATION WITH DIKES, TEMPORARY CHANNELS, AND PIPES USED TO CONVEY RUNOFF FROM DISTURBED AREAS.
25. OTHER MEASURES, SUCH AS TRACK-OUT PREVENTION DEVICES, OR AS REQUIRED BY THE ENGINEER IN ORDER TO ENSURE THAT SEDIMENT IS NOT TRACKED ONTO PUBLIC STREETS BY CONSTRUCTION VEHICLES OR WASHED INTO STORM DRAINS.

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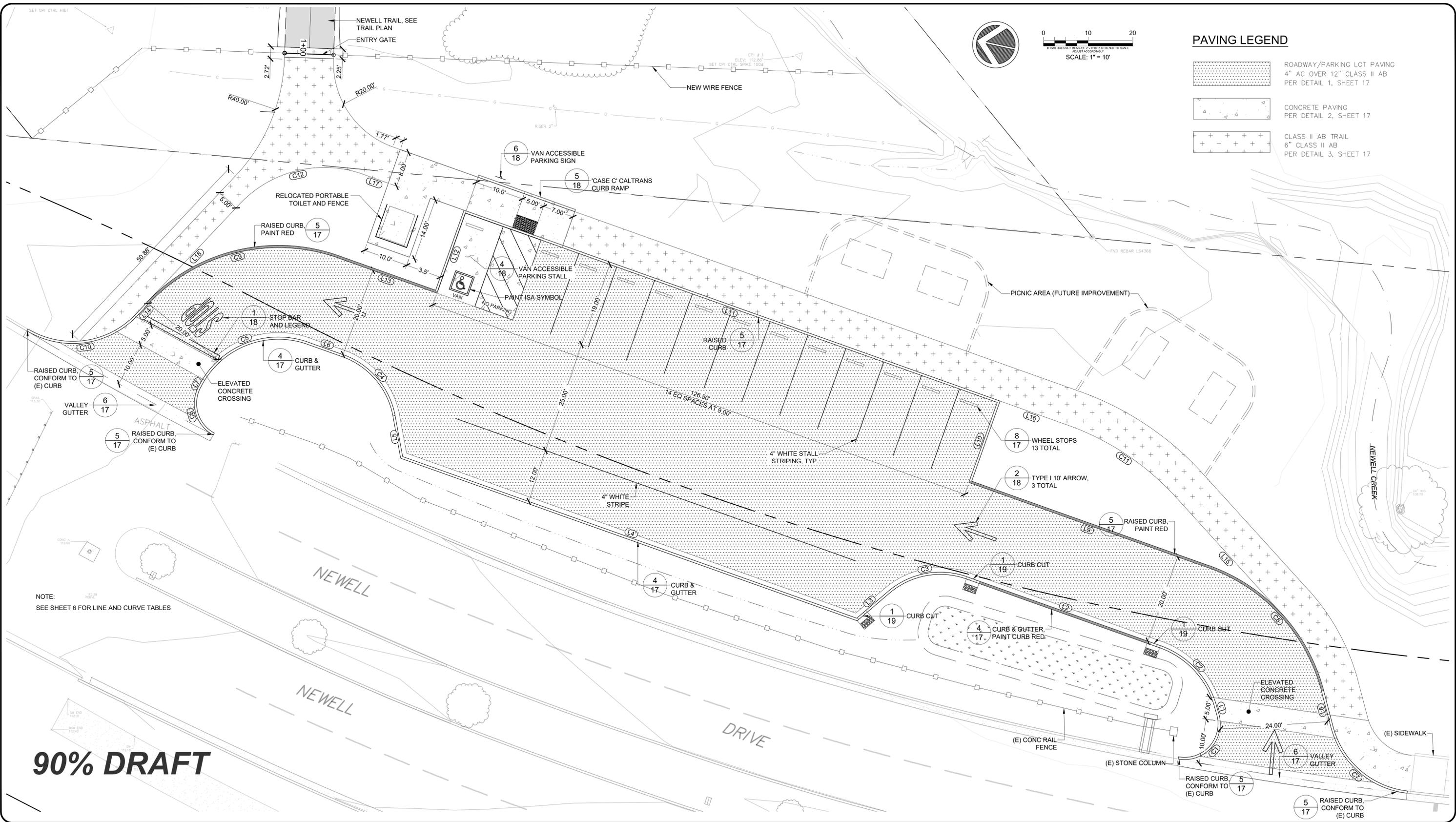
**EROSION CONTROL PLAN**

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**PAVING LEGEND**

	ROADWAY/PARKING LOT PAVING 4" AC OVER 12" CLASS II AB PER DETAIL 1, SHEET 17
	CONCRETE PAVING PER DETAIL 2, SHEET 17
	CLASS II AB TRAIL 6" CLASS II AB PER DETAIL 3, SHEET 17

NOTE:  
SEE SHEET 6 FOR LINE AND CURVE TABLES

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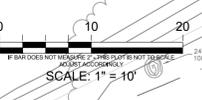
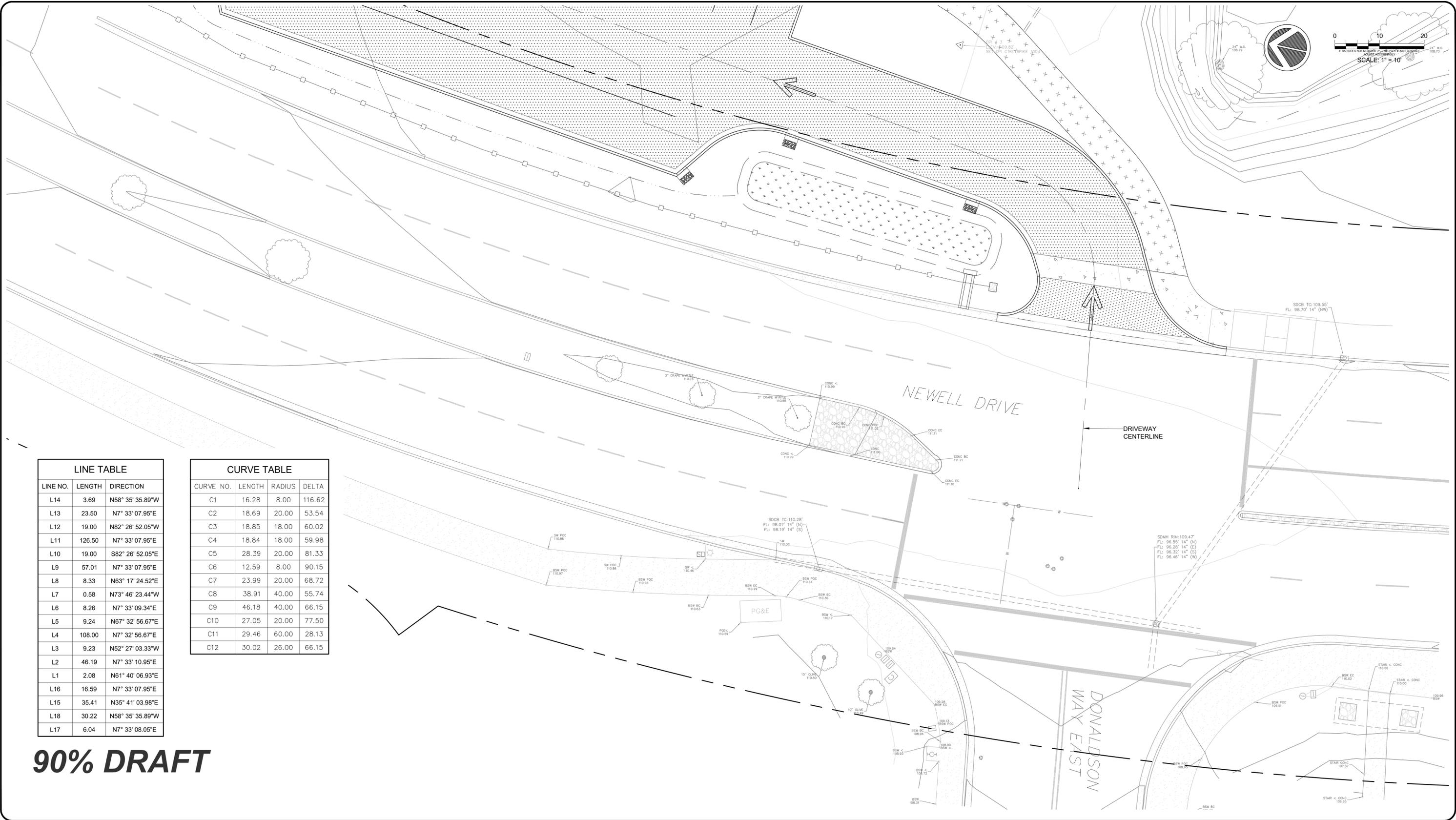
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**PARKING & ENTRY - LAYOUT**

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Sheet: 5 OF 20

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LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L14	3.69	N58° 35' 35.89"W
L13	23.50	N7° 33' 07.95"E
L12	19.00	N82° 26' 52.05"W
L11	126.50	N7° 33' 07.95"E
L10	19.00	S82° 26' 52.05"E
L9	57.01	N7° 33' 07.95"E
L8	8.33	N63° 17' 24.52"E
L7	0.58	N73° 46' 23.44"W
L6	8.26	N7° 33' 09.34"E
L5	9.24	N67° 32' 56.67"E
L4	108.00	N7° 32' 56.67"E
L3	9.23	N52° 27' 03.33"W
L2	46.19	N7° 33' 10.95"E
L1	2.08	N61° 40' 06.93"E
L16	16.59	N7° 33' 07.95"E
L15	35.41	N35° 41' 03.98"E
L18	30.22	N58° 35' 35.89"W
L17	6.04	N7° 33' 08.05"E

CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C1	16.28	8.00	116.62
C2	18.69	20.00	53.54
C3	18.85	18.00	60.02
C4	18.84	18.00	59.98
C5	28.39	20.00	81.33
C6	12.59	8.00	90.15
C7	23.99	20.00	68.72
C8	38.91	40.00	55.74
C9	46.18	40.00	66.15
C10	27.05	20.00	77.50
C11	29.46	60.00	28.13
C12	30.02	26.00	66.15

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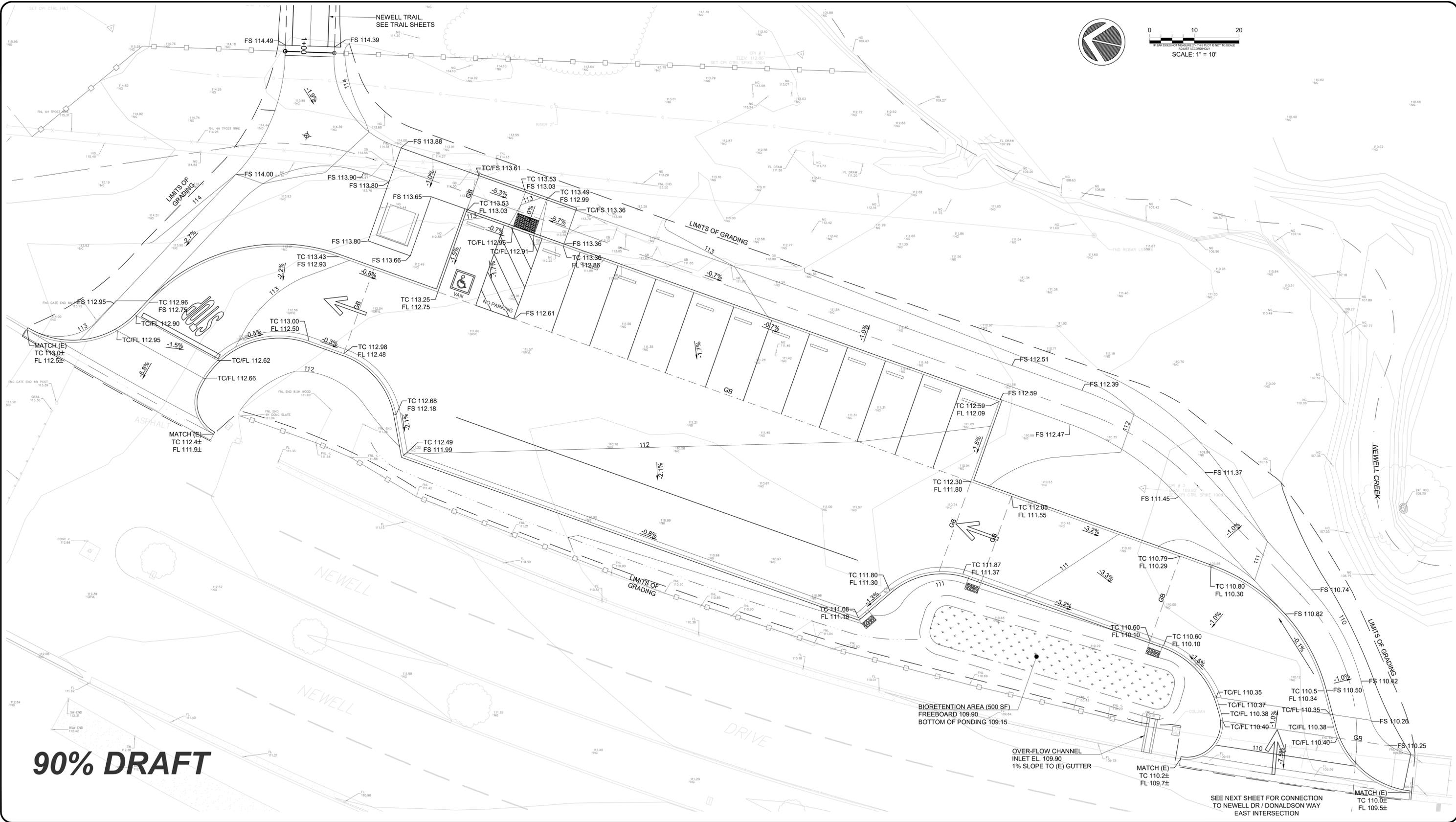
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Design:	MH/OR/CN
Drawn:	OR
Checked:	JP
Appr'd:	XXX

**NEWELL - DONALDSON**

Size:	Project
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Scale:	AS SHOWN
Date:	8-18-2023
Sheet:	6 OF 20

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**90% DRAFT**

**NEWELL OPEN SPACE PRESERVE  
TRAIL AND PARKING IMPROVEMENTS**  
City of American Canyon, CA  
Department of Parks and Recreation



**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

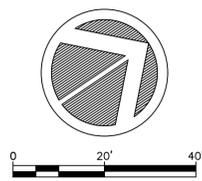
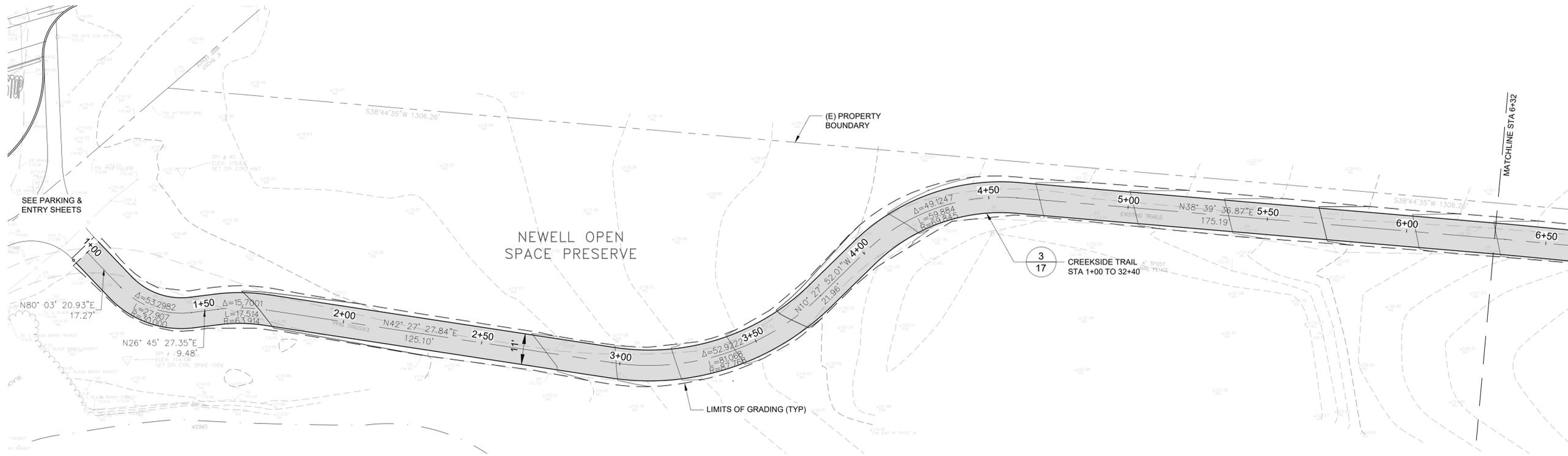
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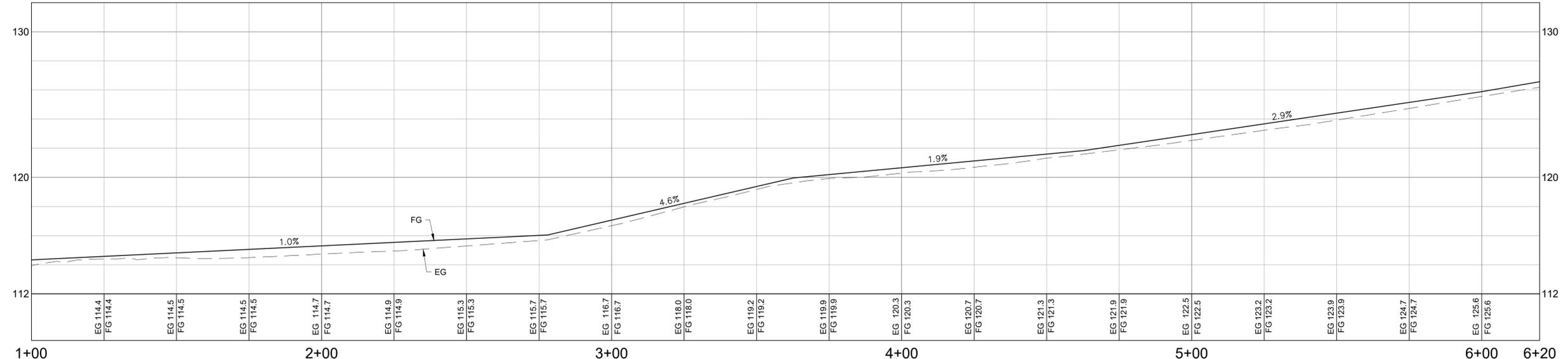
**PARKING & ENTRY - GRADING**

Project: 1600080  
Scale: AS SHOWN  
Date: 8-18-2023  
Sheet: 7 OF 20

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Creekside Trail Alignment PROFILE  
 HORIZONTAL: 1" = 20'  
 VERTICAL: 1" = 4'



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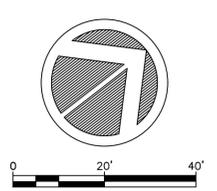
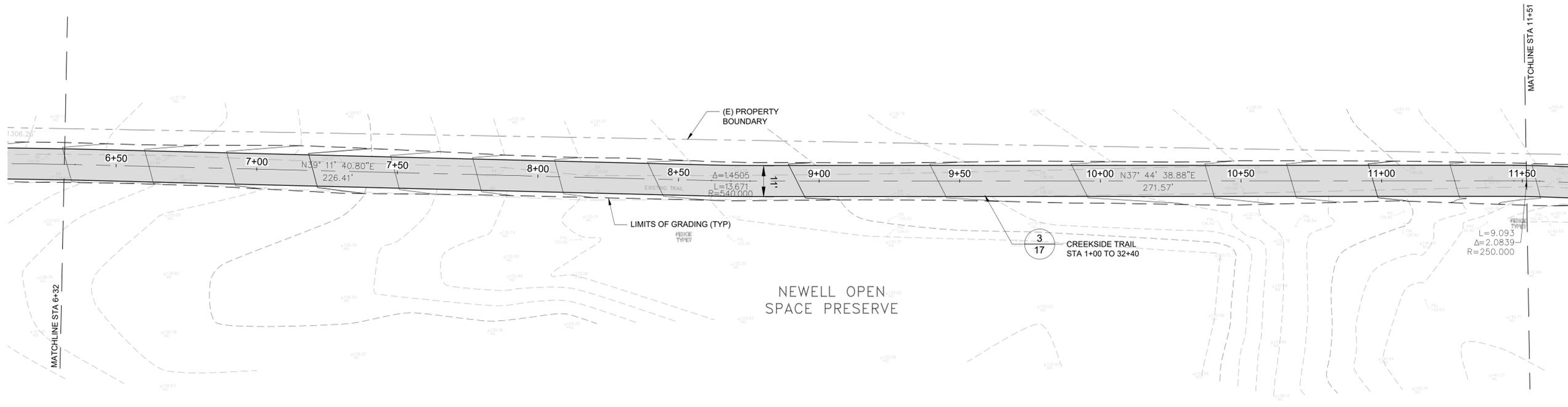
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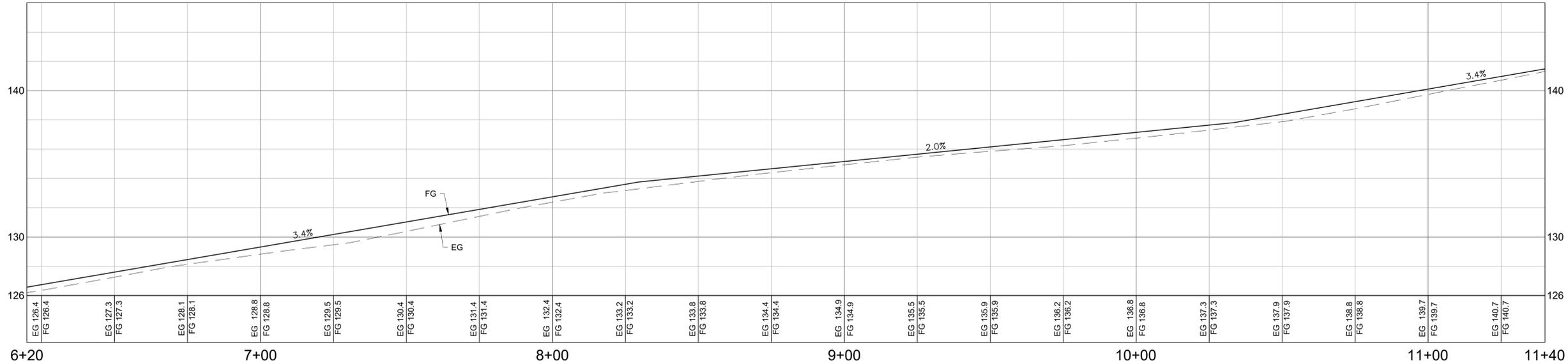
**TRAIL PLAN & PROFILE (1)**  
**STA (1+00 TO 6+20)**

Size: D Project: 1600080  
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 Date: 8-18-2023  
 Sheet: 8 OF 20

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 LAST SAVED: 8/18/2023 10:00:00 AM  
 PLOT DATE: 8/18/2023  
 PLOT STYLE:



Creekside Trail Alignment PROFILE  
 HORIZONTAL: 1" = 20'  
 VERTICAL: 1" = 4'



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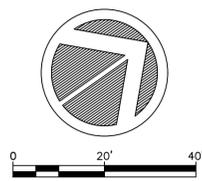
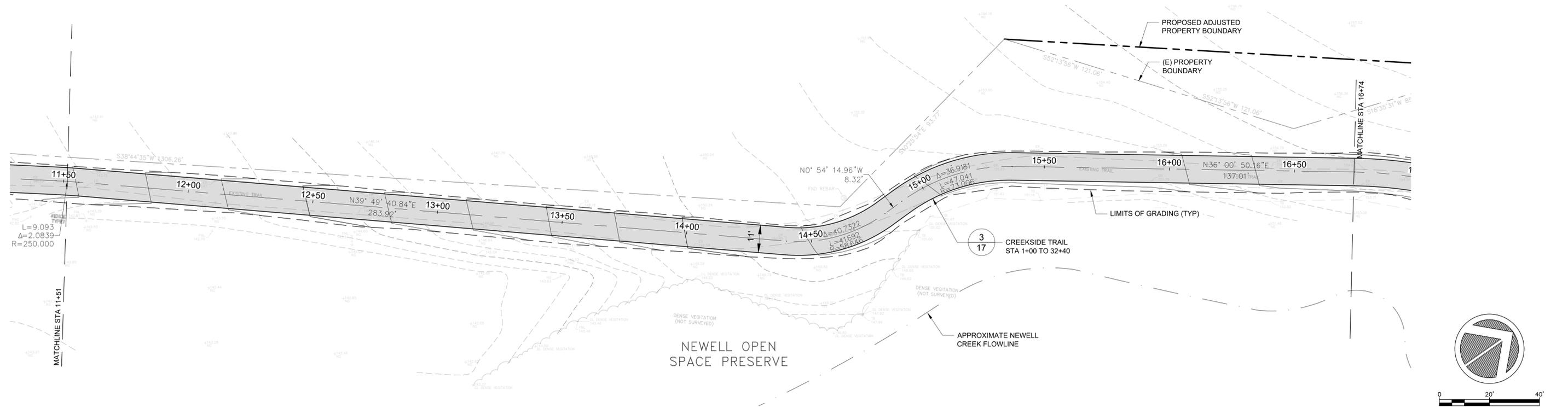
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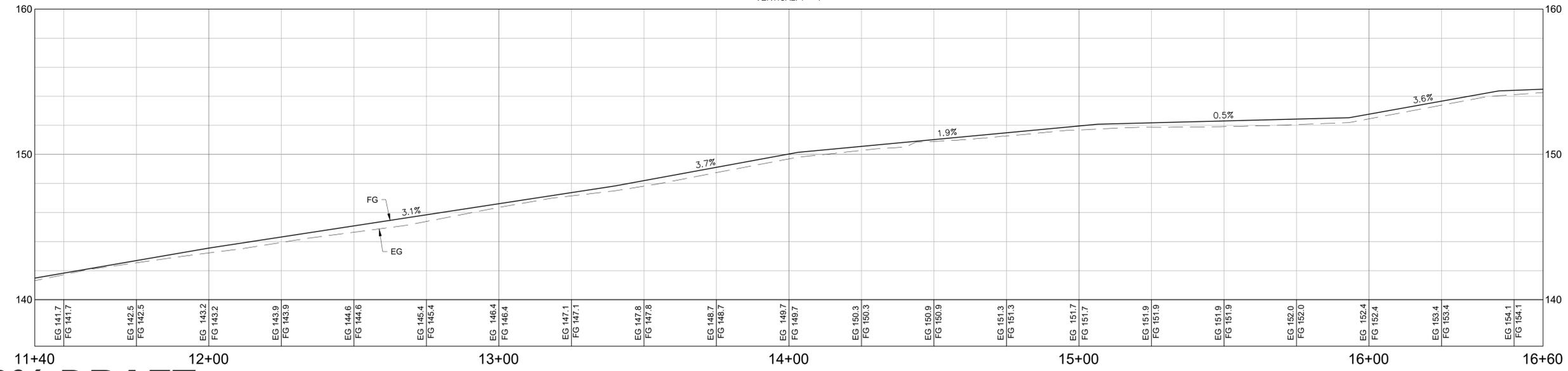
**TRAIL PLAN & PROFILE (2)  
 STA (6+20 TO 11+40)**

Size: D Project: 1600080  
 Scale: AS SHOWN  
 Date: 8-18-2023  
 Sheet: 9 OF 20

P:\2016\160080\NEWELL TRAIL\2016\CAD\SHEETS\VF6 - CREEKSIDE TRAIL ALIGNMENT - (1) - (1).DWG  
 LAST SAVED: 8/18/2023 PLOT DATE: 8/18/2023 PLOT STYLE: ---



Creekside Trail Alignment PROFILE  
 HORIZONTAL: 1" = 20'  
 VERTICAL: 1" = 4'



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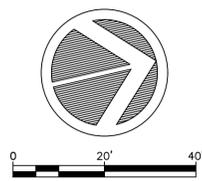
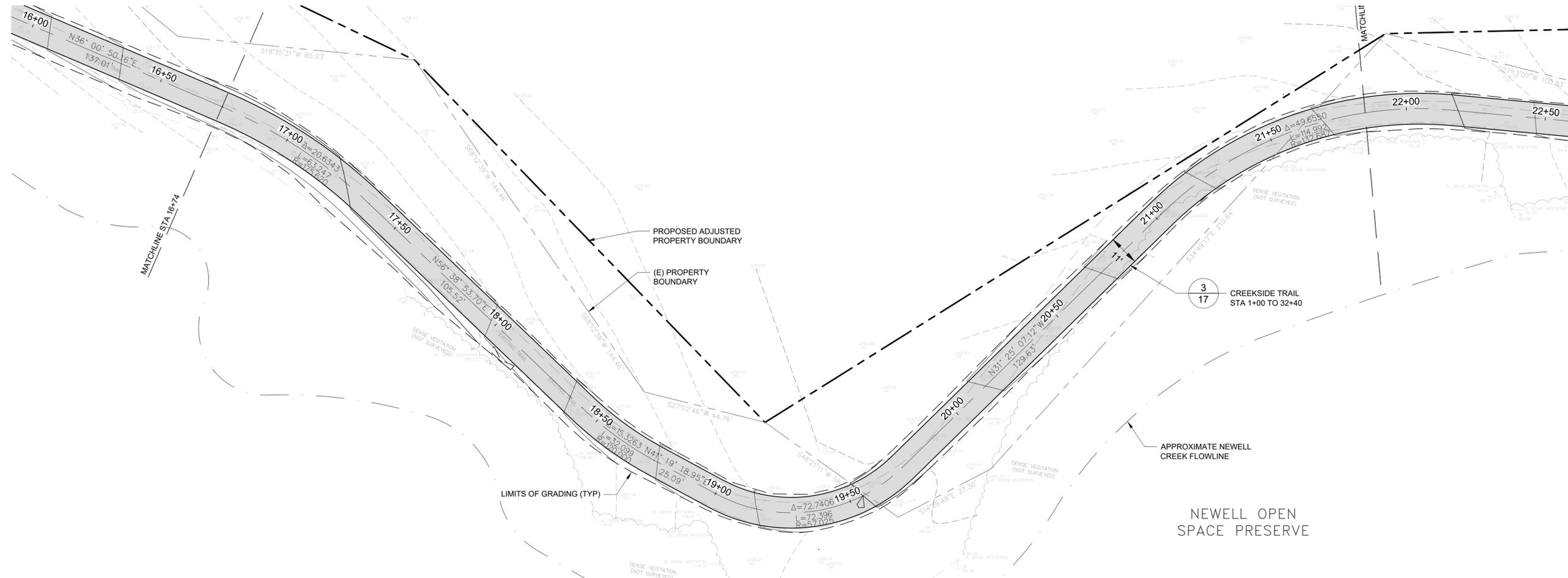
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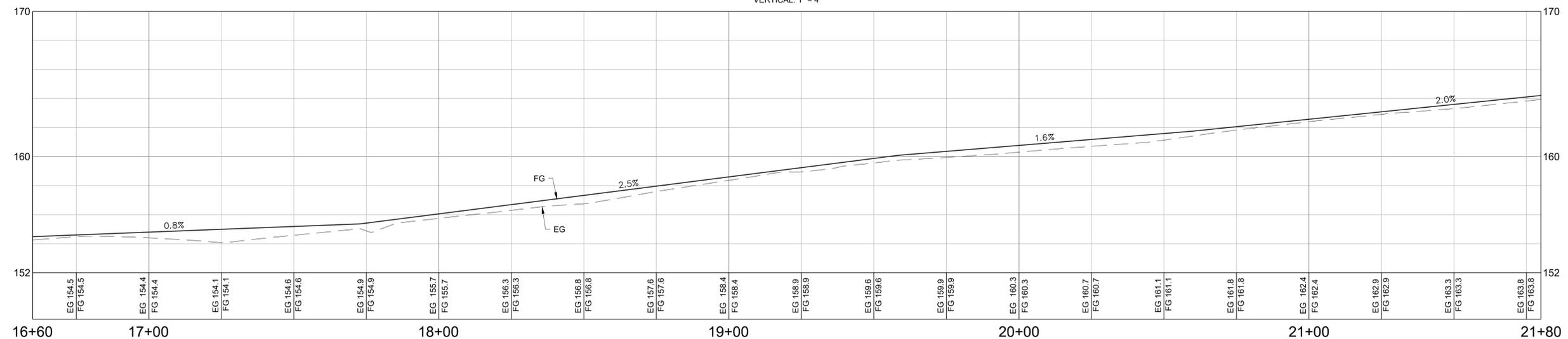
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**STA (11+40 TO 16+60)**

Size: D Project: 1600080  
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 Sheet: 10 OF 20

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 LAST SAVED: 8/18/2023 PLOT DATE: 8/18/2023 PLOT STYLE: sct.dwt  
 F BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - ADJUST ACCORDINGLY



Creekside Trail Alignment PROFILE  
 HORIZONTAL: 1" = 20'  
 VERTICAL: 1" = 4'



**90% DRAFT**

**NEWELL OPEN SPACE PRESERVE**  
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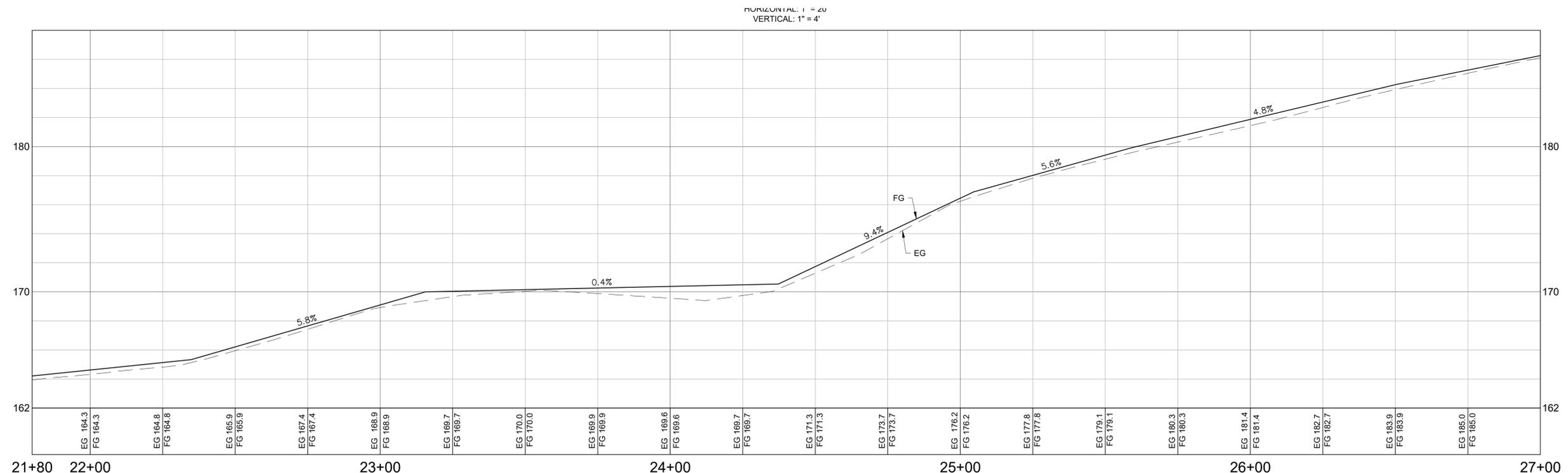
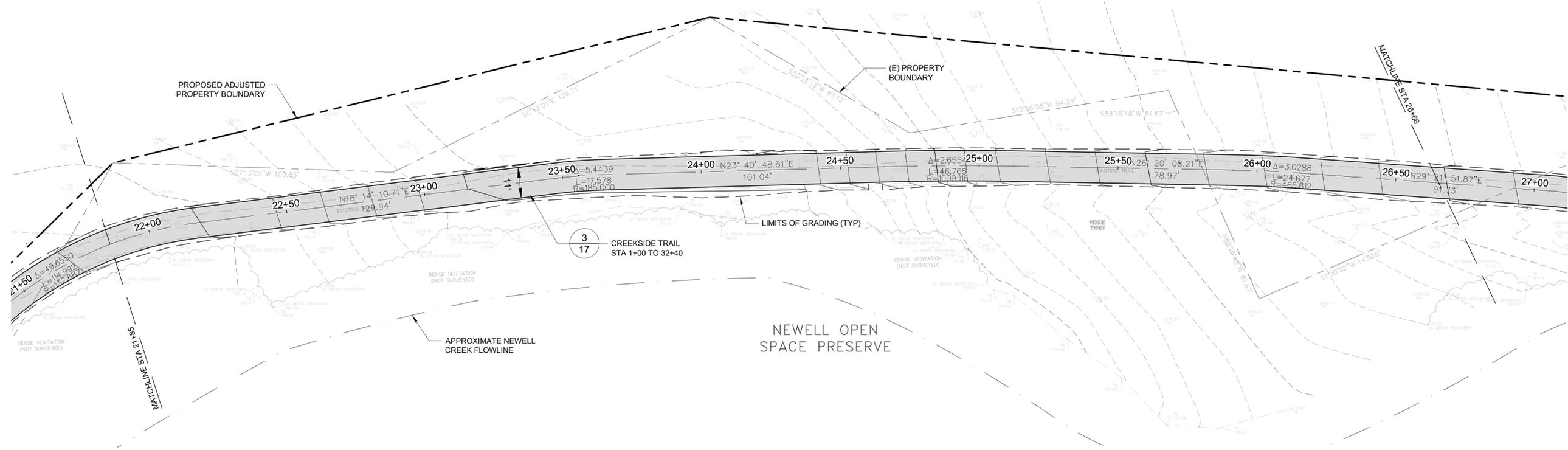
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Design: MH/OR/CN  
 Drawn: OR  
 Checked: JP  
 Appr'd: XXX

**TRAIL PLAN & PROFILE (4)**  
**STA (16+60 TO 21+80)**

Size: D Project: 1600080  
 Scale: AS SHOWN  
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 Sheet: 11 OF 20

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 PLOT STYLE:



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**NEWELL OPEN SPACE PRESERVE**  
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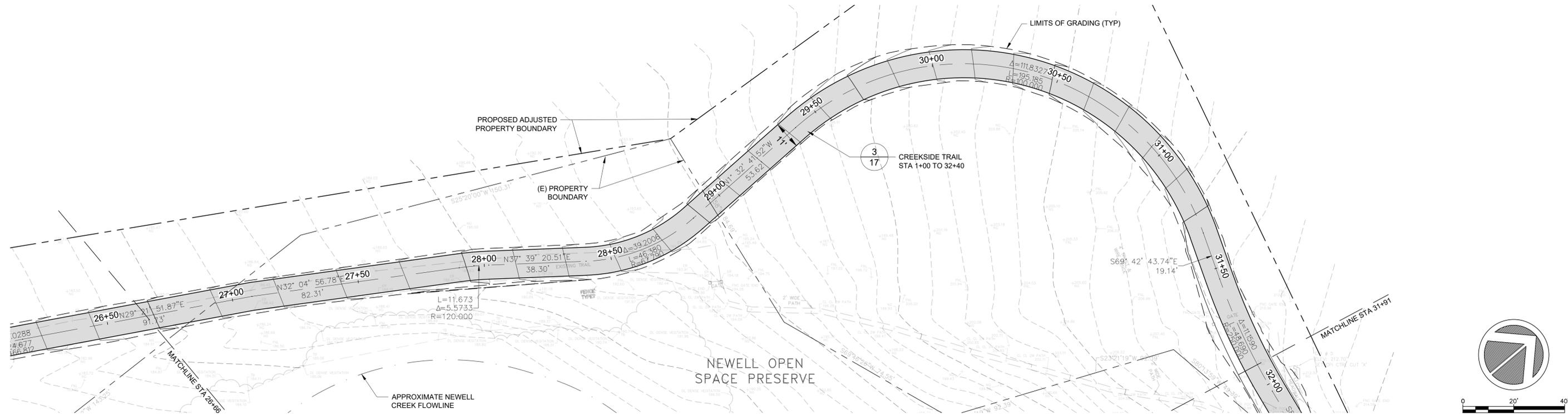
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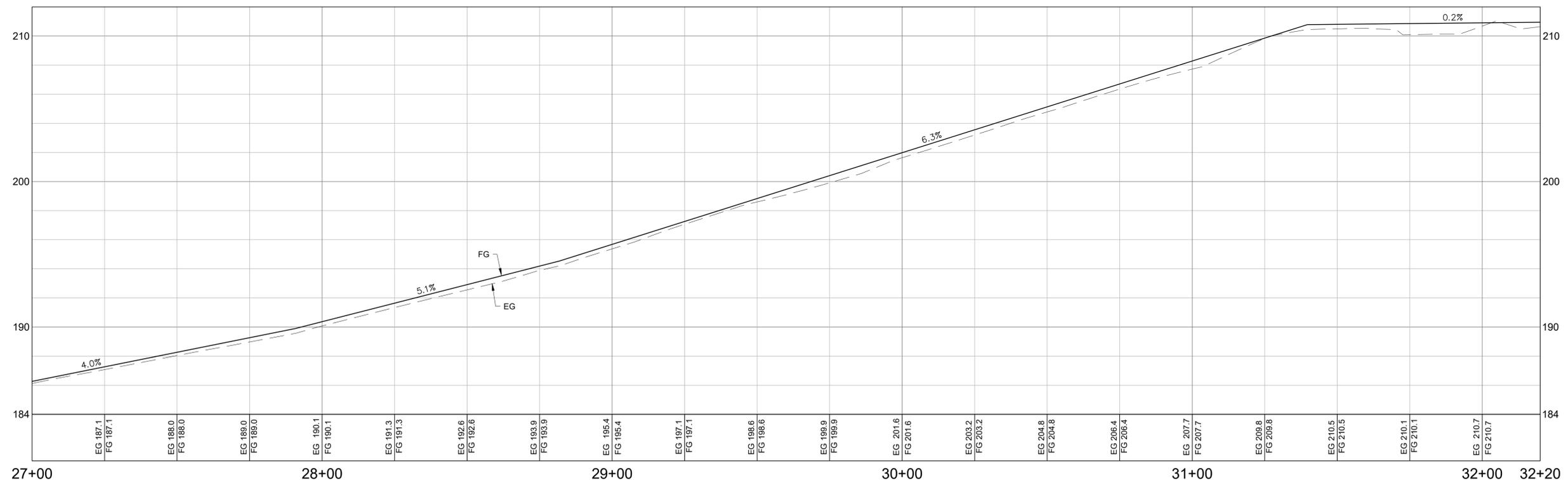
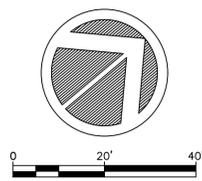
**TRAIL PLAN & PROFILE (5)**  
**STA (21+80 TO 27+00)**

Size D Project 1600080  
Scale: AS SHOWN  
Date: 8-18-2023  
Sheet: 12 OF 20

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CREEKSIDE TRAIL ALIGNMENT PLAN  
 HORIZONTAL: 1" = 20'  
 VERTICAL: 1" = 4'



**90% DRAFT**

**NEWELL OPEN SPACE PRESERVE**  
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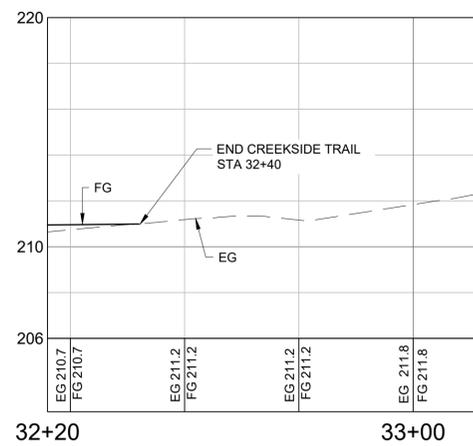
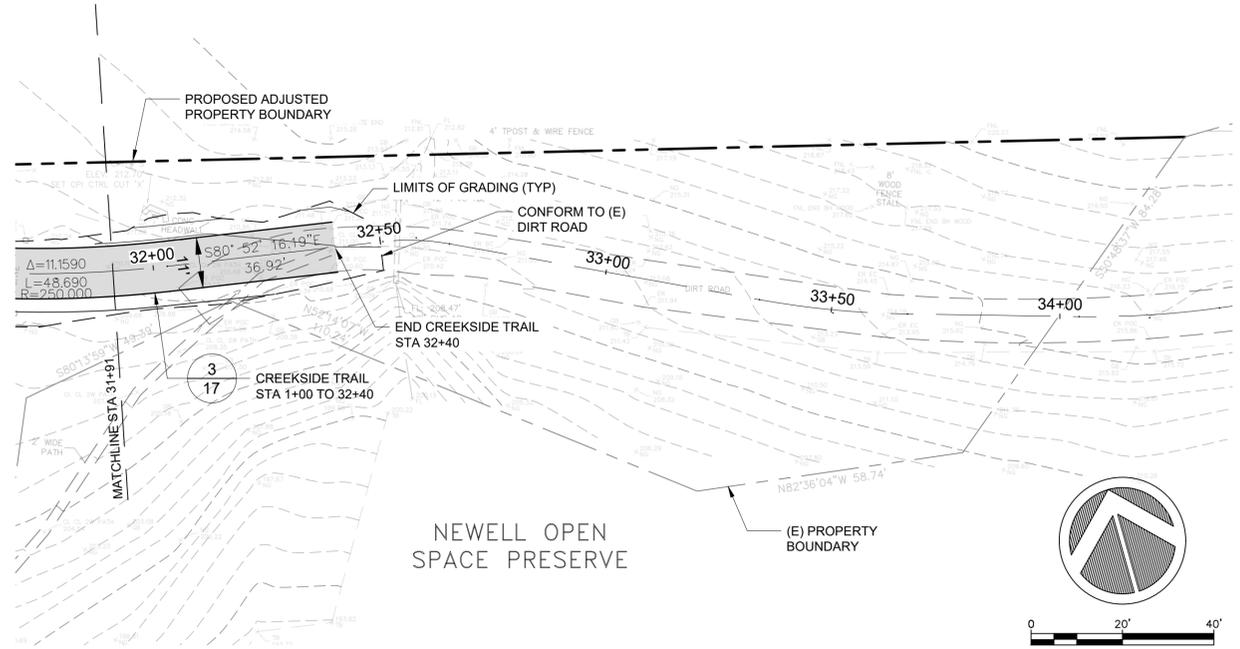
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**TRAIL PLAN & PROFILE (6)**  
**STA (27+00 TO 32+20)**

Size: D Project: 1600080  
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 Sheet: 13 OF 20

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 PLOT DATE: 8/18/2023  
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 IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - ADJUST ACCORDINGLY



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**NEWELL OPEN SPACE PRESERVE  
TRAIL AND PARKING IMPROVEMENTS**  
City of American Canyon, CA  
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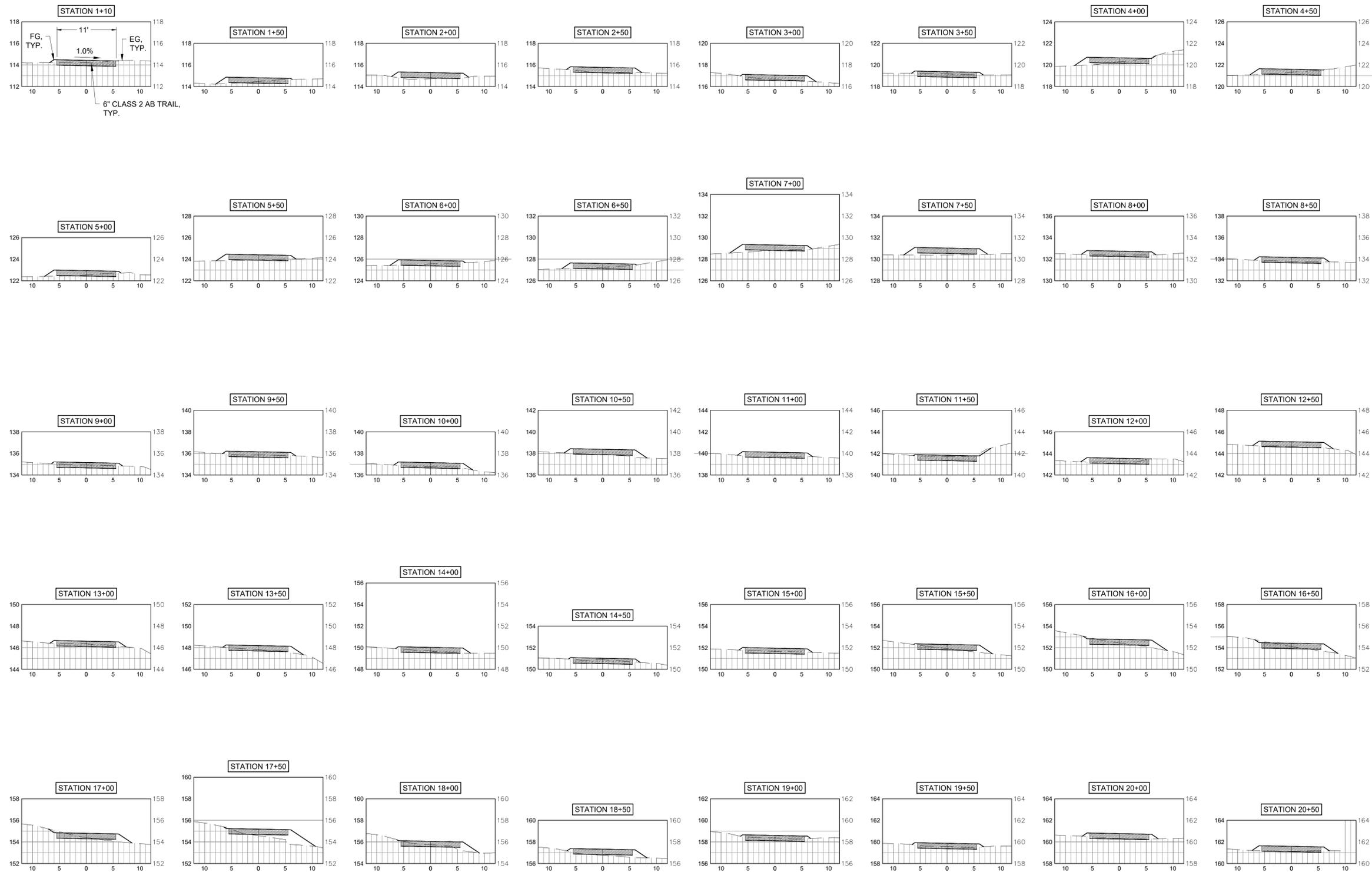
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Design: MH/OR/CN  
Drawn: OR  
Checked: JP  
Appr'd: XXX

**TRAIL PLAN & PROFILE (7)  
STA (32+20 TO 37+40)**

Size: D  
Project: 1600080  
Scale: AS SHOWN  
Date: 8-18-2023  
Sheet: 14 OF 20

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**90% DRAFT**

**SECTIONS**  
 SCALE: HORIZ 1" = 10'  
 VERT 1" = 5'

**NEWELL OPEN SPACE PRESERVE**  
**TRAIL AND PARKING IMPROVEMENTS**  
 City of American Canyon, CA  
 Department of Parks and Recreation



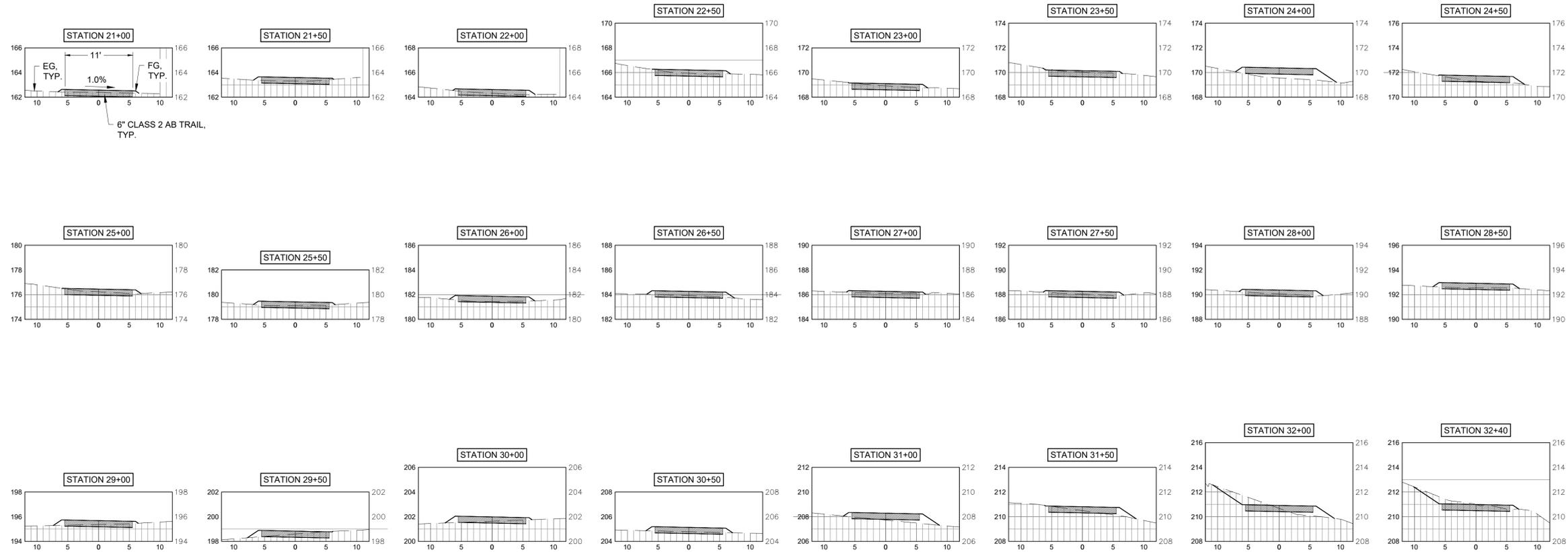
Civil  
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 & Water Resources  
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 FAX (510) 238-2423  
 questa@questaec.com  
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Design: MH/OR/CN  
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 Checked: JP  
 Appr'd: XXX

**TRAIL SECTIONS (1)**  
**STA (1+10 TO 20+50)**

Size D Project 1600080  
 Scale: AS SHOWN  
 Date: 8-18-2023  
 Sheet: 15 OF 20



**SECTIONS**  
 SCALE: HORIZ 1" = 10'  
 VERT 1" = 5'

**90% DRAFT**

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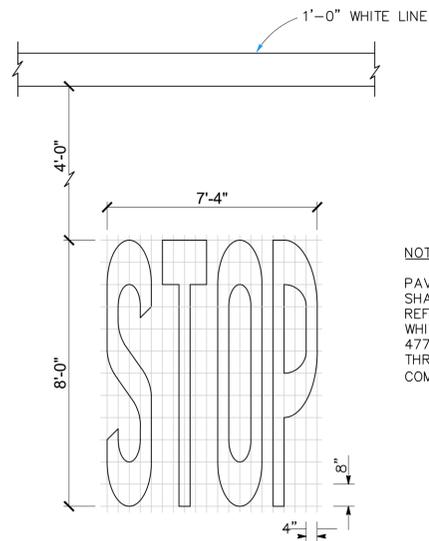
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 Checked: JP  
 Appr'd: XXX

**TRAIL SECTIONS (2)**  
**STA (21+00 TO 40+50)**

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 Scale: AS SHOWN  
 Date: 8-18-2023  
 Sheet: 16 OF 20

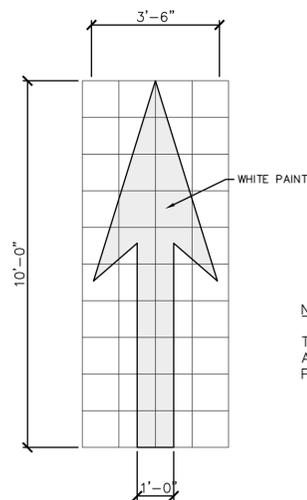
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 PLOT STYLE:   
 IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - ADJUST ACCORDINGLY





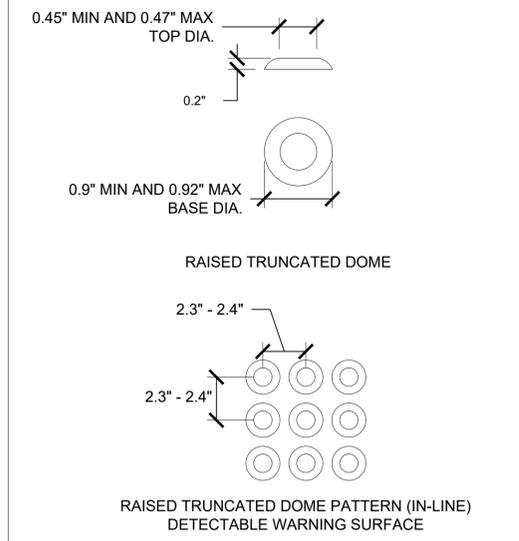
**NOTE:**  
PAVEMENT MARKING PAINT SHALL BE WATER BASED, REFLECTORIZED, RAPID DRY WHITE TRAFFIC PAINT, PERVO 4773AR OR EQUAL, AVAILABLE THROUGH PERVO PAINT COMPANY, (800) 892-3647.

**1 STOP BAR AND LEGEND**  
Scale = NTS

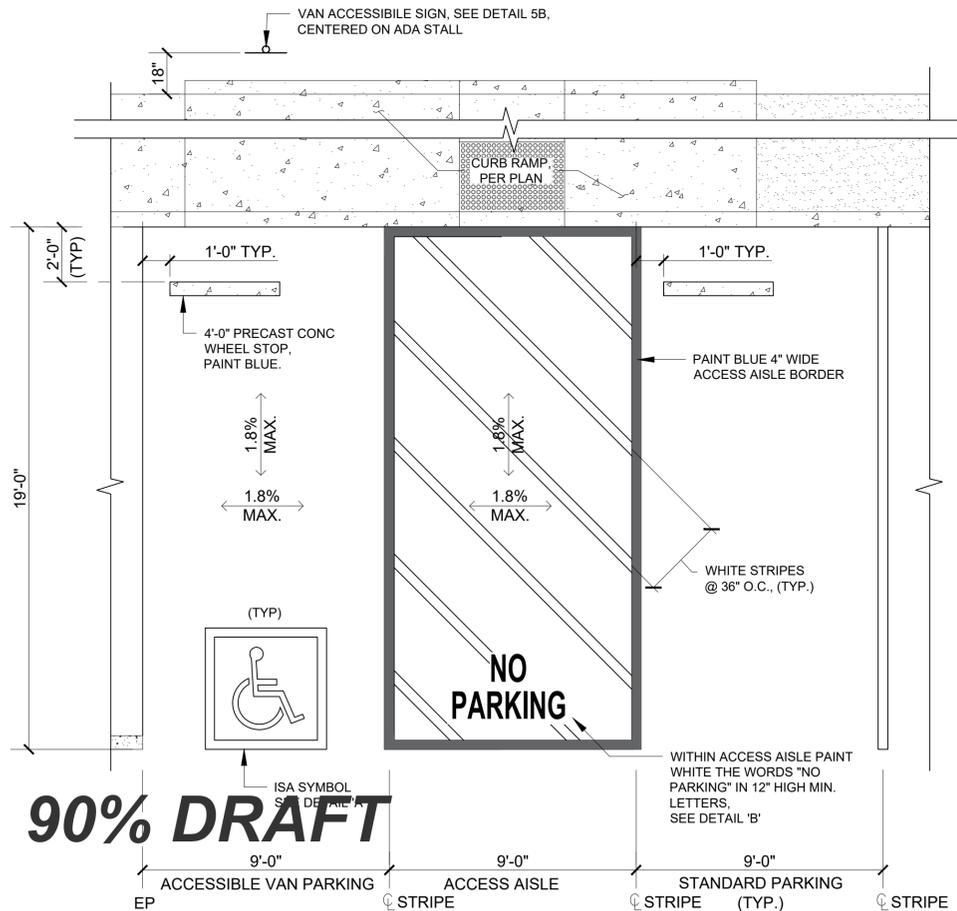


**NOTE:**  
TYPE 1 CALTRANS ARROW SHOWN ON STD PLAN A24A

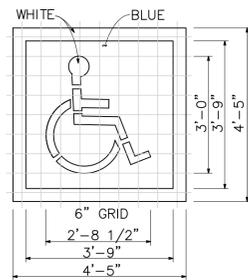
**2 TYPE I 10'-0" ARROW**  
Scale = NTS



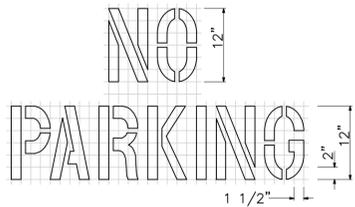
**3 TRUNCATED DOMES**  
Scale = NTS



**4 VAN ACCESSIBLE PARKING STALL**  
Scale = NTS



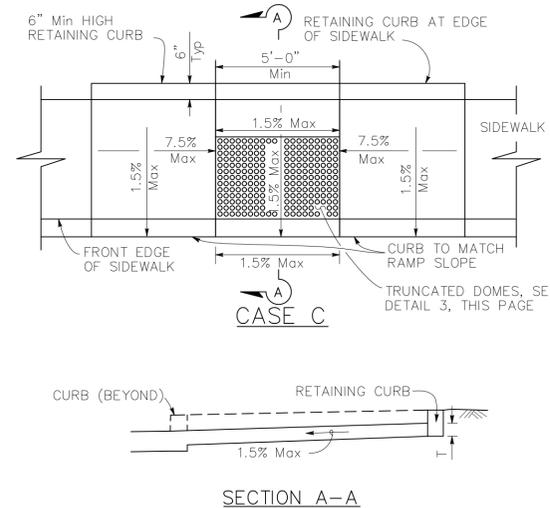
**A INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING**



**B NO PARKING LETTERS**

**NOTES:**

- PARKING TO COMPLY WITH CBC 2013 SECTION 11B-502
- PARKING SPACES AND ACCESS AISLES SHALL BE AT THE SAME LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1.8% IN ANY DIRECTION.
- SEE SIGN PLAN FOR LOCATION OF ACCESSIBILITY SIGNS AND SIGN POSTS.



**NOTES:**

- THE DETECTABLE WARNING SURFACE WILL BE A RECTANGLE AS SHOWN AT BACK OF CURB. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP. DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP EXCEPT A MAXIMUM GAP OF 1 INCH IS ALLOWED ON EACH SIDE OF THE RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE REQUIREMENTS IN THE CALTRANS STANDARD SPECIFICATIONS.
- SIDEWALK AND RAMP THICKNESS "T", SHALL BE 3 1/2" MINIMUM.
- THE SURFACE OF THE CURB RAMP AND DETECTABLE SURFACE MATERIAL SHALL BE STABLE, FIRM AND SLIP RESISTANT. THE CONCRETE CURB RAMP SURFACE SHALL BE BROOM FINISHED TRANSVERSE TO THE AXIS OF THE RAMP AND SHALL BE SLIGHTLY ROUGHER THAN THE FINISH ON THE ADJACENT SIDEWALK SURFACE.
- THE BOTTOM OF THE RAMP SHALL BE FLUSH WITH THE ACCESS AISLE.
- A LEVEL LANDING OF 4 FEET DEEP MINIMUM, 2% MAXIMUM SLOPE IN EACH DIRECTION, SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP TO ALLOW SAFE EGRESS FROM THE RAMP SURFACE. THE WIDTH OF THE LEVEL LANDING SHALL BE THE WIDTH OF THE RAMP.

**5 CURB RAMP**  
Scale = NTS



SIGN R100B (CA)  
INSERT PHONE NO. (707) XXX-XXXX  
LEAVE ADDRESS BLANK

**A ADA TOW-AWAY SIGN**



SIGN R99C (CA)

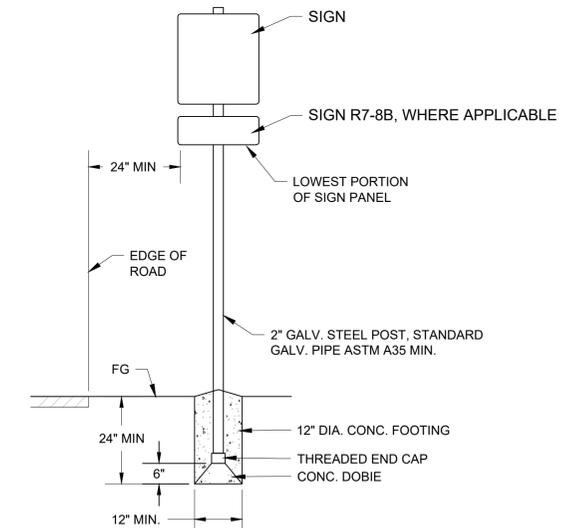
"VAN ACCESSIBLE" SIGN R7-8B SHALL BE MOUNTED BELOW THE R99C (CA) SIGN, AT VAN ACCESSIBLE PARKING STALL ONLY

THE BOTTOM OF THE SIGN SHALL BE A MINIMUM OF 72" ABOVE THE SURROUNDING SURFACE, EXCEPT SIGNS LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL BE A MINIMUM OF 80" INSTEAD.



SIGN R7-8B

**B VAN ACCESSIBLE SIGNS**



**C SIGN INSTALLATION**

**NOTES:**

- CENTER SIGNS ON PARKING STALLS, EXCEPT FOR SIGN R100B
- INSTALL SIGN R100B WITH 24" MIN CLEARANCE FROM EDGE OF PAVEMENT.
- SET SIGN ELEVATION 80" MIN. ABOVE SURROUNDING SURFACE TO BOTTOM OF LOWEST SIGN.
- VERIFY SIGN LOCATION WITH ENGINEER PRIOR TO INSTALLATION.

**6 ACCESSIBILITY PARKING SIGNS**  
Scale = NTS

**NEWELL OPEN SPACE PRESERVE**  
TRAIL AND PARKING IMPROVEMENTS  
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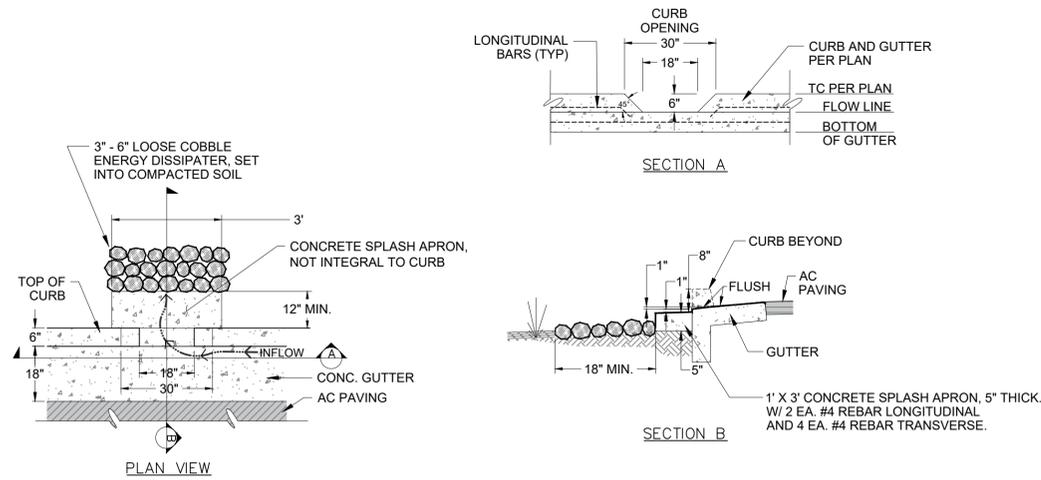
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Drawn: OR  
Checked: JP  
App'd: XXX

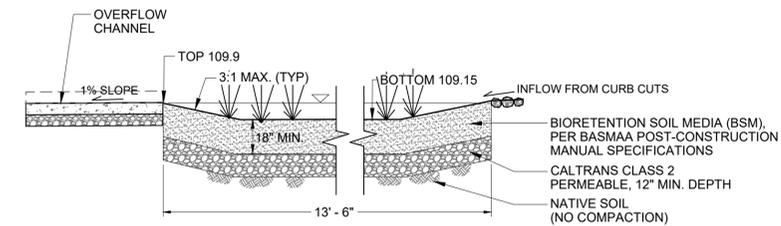
**SITE IMPROVEMENT DETAILS (2)**

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Scale: AS SHOWN  
Date: 8-18-2023  
Sheet: 18 OF 20

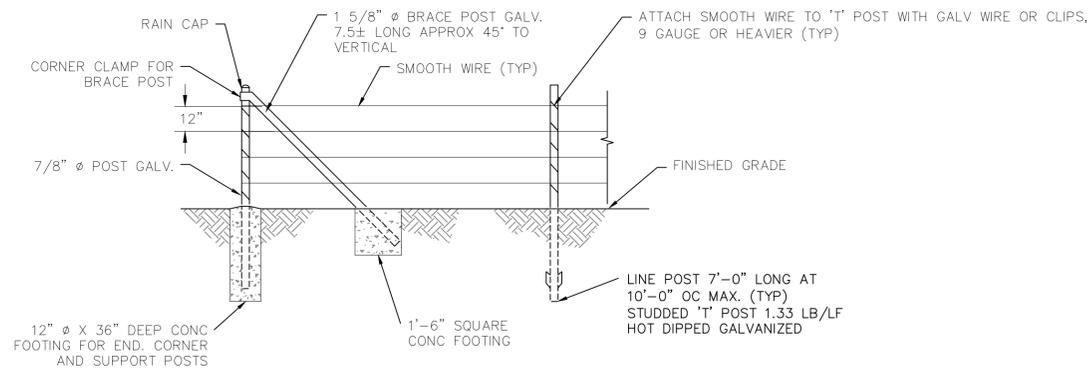
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1 CURB CUT  
Scale = NTS



2 BIORETENTION AREA, TYPICAL SECTION  
Scale = NTS

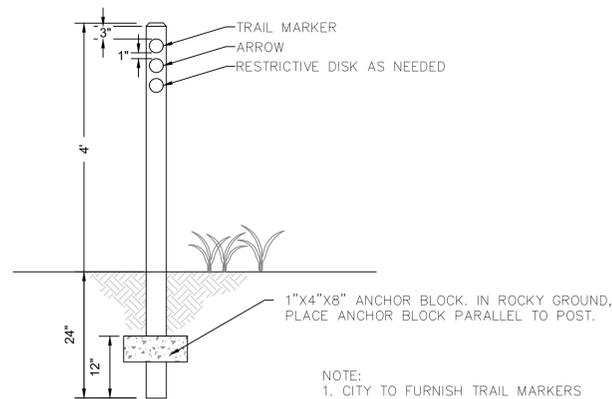


SMOOTH WIRE FENCE NOTES:

1. ALL POSTS, BRACES AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
2. CONCRETE SHALL BE COMMERCIAL CONCRETE, 5 SACK MIX.
3. WIRE SHALL BE SMOOTH, 6 GAUGE AND GALVANIZED.
4. BRACE POSTS ARE REQUIRED ON EACH SIDE OF SUPPORT POSTS AT CORNER.
5. SUPPORT POSTS REQUIRED AT ENDS AND CORNERS.
6. SUPPORT POSTS SHALL BE LOCATED 100' O.C. MAX FOR STRAIGHT RUNS, WITH BRACE POSTS ON EACH SIDE OF SUPPORT POSTS, AND ALL TURNS AND ANGLES.
7. 'T' POSTS SHALL WEIGH 1.33 POUNDS PER LINEAR FOOT AND BE HOT DIPPED GALVANIZED. 'T' POSTS SHALL BE DRIVEN TO THE DEPTH INDICATED ON DRAWING IN ALL SOILS, HOWEVER NO BENT OR DAMAGED POSTS SHALL BE ACCEPTED.

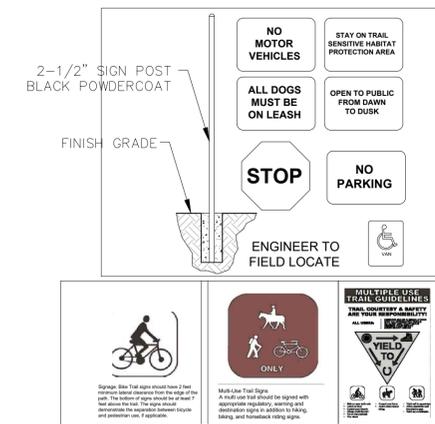
90% DRAFT

3 4-STRAND SMOOTH WIRE T-POST FENCE  
Scale = NTS



- NOTE:
1. CITY TO FURNISH TRAIL MARKERS
  2. CONTRACTOR TO FURNISH AND INSTALL POST.

4 TRAIL POST MARKER  
Scale = NTS



- NOTE:
1. CITY TO FURNISH TRAIL/TRAFFIC SIGNS
  2. CONTRACTOR TO FURNISH AND INSTALL POST.

5 TRAIL SIGNS  
Scale = NTS

NEWELL OPEN SPACE PRESERVE  
TRAIL AND PARKING IMPROVEMENTS  
City of American Canyon, CA  
Department of Parks and Recreation



QUESTA  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
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P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

Sht	Rev	Date	By	Description	App'd

Design: MH/OR/CN  
Drawn: OR  
Checked: JP  
Appr'd: XXX

SITE IMPROVEMENT DETAILS (3)

Size D Project 1600080  
Scale: AS SHOWN  
Date: 8-18-2023  
Sheet: 19 OF 20

PRELIMINARY ESTIMATE OF CONSTRUCTION COSTS  
Newell Open Space Preserve Public Access - Trail and  
Street Improvements

Item No.	Item Description	Unit	Quantity	Unit Price	Item Total
<b>General</b>					
1	Mobilization (10%)	LS	1	\$42,000.00	\$42,000
2	Survey & Stakeout	LS	1	\$8,000.00	\$8,000
3	Traffic Control Plan & Implementation	LS	1	\$5,000.00	\$5,000
4	Prepare & Implement SWPPP	LS	1	\$5,000.00	\$5,000
5	Construction Entrance	LS	1	\$4,000.00	\$4,000
	<b>SUBTOTAL ITEMS</b>				<b>\$64,000</b>
<b>Entrance, Parking, &amp; Trailhead</b>					
6	Demo (E) Parking Lot and Trail	LS	1	\$5,500.00	\$5,500
7	Relocate Portable Toilet and Fence	LS	1	\$800.00	\$800
8	Salvage (E) Park Signs	LS	1	\$750.00	\$750
9	Protect (E) Utilities	LS	1	\$500.00	\$500
10	Demo (E) Fence	LF	140	\$2.50	\$350
11	Demo (E) Curb & Gutter	LF	40	\$50.00	\$2,000
12	Newell Ave Curb Repair	LS	1	\$1,500.00	\$1,500
13	Silt Fencing	LF	150	\$6.00	\$900
14	Repair (E) Precast Concrete Fence	LS	1	\$2,000.00	\$2,000
15	Straw Wattles	LS	1	\$500.00	\$500
16	Driveway Approach	EA	2	\$6,000.00	\$12,000
17	Newell Crosswalk Striping	LS	1	\$1,200.00	\$1,200
18	Low Impact Development Feature	LS	1	\$4,000.00	\$4,000
19	Concrete Sidewalk	SF	1,230	\$15.00	\$18,450
20	Parking Lot Striping	LS	1	\$3,200.00	\$3,200
21	Signage	LS	1	\$2,200.00	\$2,200
22	ADA Parking Stall Concrete	LS	1	\$4,000.00	\$4,000
23	Parking Lot Paving	SF	9,828	\$5.00	\$49,140
24	AB Paving Areas	SF	2,524	\$6.00	\$15,144
25	Concrete Curb & Gutter	LF	255	\$55.00	\$14,025
26	Concrete Vertical Curb	LF	430	\$38.00	\$16,340
27	Curb Ramp	LS	1	\$5,000.00	\$5,000
28	Concrete Wheel Stops	EA	13	\$250.00	\$3,250
29	Trailhead Entry Gate	LS	1	\$2,400.00	\$2,400
30	Property Line 2-Wire Fence	LF	220	\$12.00	\$2,640
31	Creebank Protection	LS	1	\$2,500.00	\$2,500
32	Hydroseed Disturbed Areas	LS	1	\$2,000.00	\$2,000
	<b>SUBTOTAL ITEMS</b>				<b>\$172,289</b>
<b>Creekside Trail</b>					
33	Silt Fencing	LF	3,200	\$6.00	\$19,200
34	Straw Wattles	LF	3,200	\$2.00	\$6,400
35	Trail Section Assembly	LF	3,140	\$29.00	\$91,060
36	Property Line 2-Wire Fence	LF	3,050	\$12.00	\$36,600
37	Fence Correction at (E) Fence Opening	LS	1	\$1,500.00	\$1,500
38	Fill Wedge @ Sta 31+40	LS	1	\$15,000.00	\$15,000
39	Trail Signage	LS	1	\$1,500.00	\$1,500
40	Hydroseed Disturbed Areas	SF	66,800	\$0.14	\$9,352
	<b>SUBTOTAL ITEMS</b>				<b>\$180,612</b>
<b>Additive Alternate</b>					
AA-1	Trail Section Assembly - substitute QF for AB	LF	3,140	\$22.00	\$69,080
AA-2	Trail Section Assembly - add Geotextile Fabric under trail	LF	3,140	\$12.00	\$37,680
	<b>SUBTOTAL ADDITIVE ALTERNATE ITEMS</b>				<b>\$106,760</b>
	<b>SUBTOTAL</b>				<b>\$416,901</b>
				15% Construction Contingency	\$62,535
				<b>TOTAL COST ESTIMATE</b>	<b>\$479,000</b>
				<b>TOTAL COST ESTIMATE w/Additive Alternate Items</b>	<b>\$586,000</b>