



AGENDA

Environmental Oversight Committee

Committee Members

*Lisa Bartlett, Chair
Melanie Schlotterbeck, Vice Chair
Charles Baker, Caltrans District 12
Dr. David Chapel, Grand Jury
Association of OC
Lori Donchak, OCTA Board of Directors
David Mayer, CA Dept. of Fish & Wildlife
Derek McGregor, DMC Engineering
Veronica Li, US Army Corps of Engineers
Dan Silver, Endangered Habitats League
Jonathan Snyder, US Fish & Wildlife
Service
Anthony Villa, Taxpayers Oversight
Committee Representative
John Walsh, CA Wildlife Conservation
Board*

*Orange County Transportation Authority
Board Room - Conference Room 07-08
550 South Main Street
Orange, California*

Monday, November 21, 2016 at 2:30 p.m.

Any person with a disability who requires a modification or accommodation in order to participate in this meeting should contact the OCTA Clerk of the Board, telephone (714) 560-5676, no less than two (2) business days prior to this meeting to enable OCTA to make reasonable arrangements to assure accessibility to this meeting.

- 1. Welcome**
- 2. Pledge of Allegiance**
- 3. Approval of October 26, 2016 Minutes**
- 4. West Loma Restoration Project Update**
Lesley Hill, OCTA
Matthew Major, Irvine Ranch Conservancy

In 2012, the Orange County Transportation Authority (OCTA) funded two habitat restoration projects during the second round of funding under the Measure M2 (M2) Environmental Mitigation Program's, which were sponsored by the Irvine Ranch Conservancy (IRC). These included the West Loma and Lower Silverado Canyon restoration projects. The West Loma restoration project proposal consisted of approximately 62 acres of coastal sage scrub and riparian habitat, with a project budget of \$1,322,800. This project included the realignment of existing fencing along State Route 241. IRC had earmarked approximately \$80,000 to complete this component of the project. As the project progressed further, it was determined the originally proposed fence realignment was not feasible. IRC staff has recommended an alternative to improving wildlife connectivity to replace this component in the West Loma project. IRC staff will



AGENDA

Environmental Oversight Committee

present an update to the West Loma project and will include a description of this proposed project revision. The budget will remain the same as the original Board allocation amount.

Recommendation

A. Endorse the Irvine Ranch Conservancy's revised scope of work as described herein for the West Loma Restoration Project.

5. M2 Environmental Mitigation Program Funds Update

Dan Phu, OCTA

Jun Onaka, OCTA Consultant

The Environmental Mitigation Program allocates at least 5% of the anticipated freeway program revenues from the Measure M2 sales tax. The freeway program is comprised of 43% of the M2 revenues. Staff will present an update to the availability of funds for the Mitigation Program.

6. Ferber Ranch Preserve Family Event

Marissa Espino, OCTA

On Saturday, November 19th, OCTA will host a guided hike and family event at the Ferber Ranch Preserve in Trabuco Canyon. This will be our first event focused on families in which children younger than 12 are invited to attend. Staff is planning on having some activities focused on children in addition to a family hike. The event will help educate attendees on the importance of habitat preservation and OCTA's Environmental Mitigation Program. Staff will provide a brief summary about this public event.

7. Public Comments

Members of the public may address the EOC regarding any item. Please complete a speaker's card and submit it to the EOC or notify the EOC the item number on which you wish to speak. Speakers will be recognized by the Chair at the time the agenda item is to be considered. A speaker's comments shall be limited to three (3) minutes.

8. Committee Member Reports

9. Next Meeting – TBD

10. Closed Session

Pursuant to Government Code Section 54956.8 to discuss the price and terms of payment for the acquisition of the following real properties:

Ferber Ranch Residual Parcel (17.3+/- acres), located at 19912 Rose Canyon Road, Trabuco Canyon, CA. The negotiator for the Trabuco Canyon Company, LLC is Mr. Tim Jones. The negotiator for OCTA is Dan Phu.



AGENDA

Environmental Oversight Committee

11. Adjournment



Minutes

Measure M2 Environmental Oversight Committee

Committee Members

*Lisa Bartlett, Chairman
Melanie Schlotterbeck, Vice Chair
Charles Baker, Caltrans District 12
Dr. David Chapel, Grand Jury Assoc. of O.C.
David Mayer, CA Dept. of Fish & Wildlife
Dan Silver, Endangered Habitats League
Jonathan Snyder, US Fish & Wildlife Service
Anthony Villa, Taxpayers Oversight Comm.
Walsh, CA Wildlife Conservation Board*

*Orange County Transportation Authority
500 South Main Street, Room 07
Orange, California
Wednesday October 26, 2016
2:30 p.m.*

Member(s) Absent

*Lori Donchak, Board of Directors
Veronica Li, US Army Corp of Engineers
Derek McGregor, DMc Engineering John*

Any person with a disability who requires a modification or accommodation in order to participate in this meeting should contact the OCTA Clerk of the Board, telephone (714) 560-5676, no less than two (2) business days prior to this meeting to enable OCTA to make reasonable arrangements to assure accessibility to this meeting.

1. Welcome

Chairman Lisa Bartlett called the Environmental Oversight Committee (EOC) meeting to order at 2:30 p.m.

2. Pledge of Allegiance

Vice-Chairman Melanie Schlotterbeck led the Pledge of Allegiance.

3. Approval of August 1, 2016 Minutes

Chairman Lisa Bartlett asked if there were any additions or corrections to the August 1, 2016 EOC minutes.

Melanie Schlotterbeck said on page 5, Item 10, the last sentence says request for proposal. It should say resource management plan.

A motion was made by Melanie Schlotterbeck to approve the minutes with change, seconded by Dan Silver and passed unanimously to approve the August 1, 2016 EOC meeting minutes as presented.

4. Final Natural Community Conservation Plan/Habitat Conservation Plan and Final Environmental Impact Report/Statement

Monte Ward gave a brief history of the Natural Community Conservation Plan Habitat Conservation Plan (NCCP/HCP) and the Environmental Impact Report/Statement (EIR/S) to date. Lesley Hill gave an overview of the NCCP/HCP and the EIR/S process. Dan Phu provided an overview of the recommendations and next steps for the Program.

Chairman Lisa Bartlett thanked and acknowledged OCTA and its partners. She highlighted the significant milestone this project represents.

Dan Silver said this program has exceeded our targets on everything but grasslands. He said it is unclear if there needs to be more grasslands included on future acquisitions. Lesley Hill said if you look at the full picture, the grasslands that are being impacted are within the freeway rights of way. She said those grasslands are in most cases non-native degraded/maintained grasslands and the grasslands within the Preserves are of much higher quality native grasslands. We do not have a need for additional grassland mitigation because of the quality preserved and also the fact that we were able to exceed the acreage target for many of the other habitat types within the Plan. She said when it comes to freeway project level analysis, there is a requirement for the biological document to include a description of the grasslands proposed for impacts. The document should assess the grassland quality and also if they contribute to important open space connections.

Dan Silver asked for a list of other needs/gaps as the committee considers future acquisitions. He specifically noted the Arroyo Chub fish. Lesley Hill said she would get that information to the committee.

Dan Silver asked about the section under major amendments where it says if new conservation credits or properties come into play, there needs to be an amendment. Jonathan Snyder clarified it would not take a major amendment to bring in new properties, but if you used those projects to exceed the cap it would then require a major amendment. You can't increase credits to offset impacts. The intent is you cannot bring in new properties to offset freeway projects beyond the cap.

Dan Silver said this committee spent a lot of good quality time at the beginning laying down the ground work for this plan and it was time well spent. He congratulated and thanked staff for all the hard work.

Dan Silver asked about the controversy over access to some of the properties. He asked what is the message regarding access to the OCTA properties. Dan Phu said the NCCP has the framework for how to manage the properties, but does not get into

the details of how access will be managed. OCTA has fast-forwarded the Resource Management Plans for review due to access issues. The issue of access needs to be consistent with properties biological resource needs and is being worked out with the wildlife agencies. Dan Silver said it seems like there is room for an evolution in the future. Dan Phu said yes, it can morph over time and we are working it out.

Dan Silver felt that all the NCCP conditions were met.

Melanie Schlotterbeck asked when the implementing agreement would be fully executed. Dan Phu indicated the whole package will go to the OCTA Board on November 28. Upon OCTA Board approval, a Notice of Determination (NOD) in accordance to the California Environmental Quality Act (CEQA) will be filed. The filing of the NOD triggers a mandatory 30-day review period. Dan Phu indicated the plan is to have it fully executed during the early part of first quarter in 2017.

Melanie Schlotterbeck said Resource Management Plans are reviewed and updated every 5 years.

Melanie Schlotterbeck said the primary purpose of this program is conservation, but access is a co-benefit.

Melanie Schlotterbeck thanked staff for their hard work and dedication. This has been a big deal for the conservation community. She said this will be a legacy project for OCTA and the environmental community. This moment should be honored.

Public Comments

Jeff Garvin, Hills for Everyone, from Chino Hills said his group is a part of a coalition that supported the renewed Measure M. He honored the significance of an environmental group supporting a transportation agency. In the early 2000's his group collaborated with Caltrans to protect Coal Canyon. In 2005 they worked with OCTA to support Measure M. In 2011, the 296 acre Hiyashi property was acquired by OCTA. Today, the EOC will be considering a conservation plan to permanently protect lands within the mitigation program. This includes a proposed modification to the Chino Hills State Park Restoration Project. Hills for Everyone supports this adjustment. This adjustment is in an area where wildfires often start and the adjustment to the plan will reduce highly flammable non-native vegetation. This will buffer homes and the park from the risk of wildfires. We also plan to support the Resource Management Plan for the Hiyashi property as well. Hills for Everyone supports Alternative 2 in the EIR/EIS. He thanked the OCTA for the opportunity to be partners.

Hellen Higgins, Friends of Coyote Hills, from Fullerton said her organizations supported the renewal of Measure M in 2005. Friends of Coyote Hills supports Alternative 2 in the EIR/EIS. She commended OCTA for the record speed in which the EIR/EIS was written, drafted and finalized. She also commended the US Fish and Wildlife Service, California Department of Fish and Wildlife and Caltrans. OCTA's diligent work with

regional offices and the Army Corps of Engineers has moved along the process. This program has become a model in the state for conservation programs.

Amy Litton, Friends of Harbors, Beaches and Parks, recounted the process to this point. She quoted the Transportation Investment Plan portion of the Measure M Ordinance as it relates to conservation. On behalf of the entire coalition, she thanked OCTA and the EOC for taking their comments seriously.

Penny Elia, Sierra Club, said the other speakers covered most of what she wanted to say. She said she has had great success working with the OCTA staff. She appreciates the speed in which the process has taken to come to fruition. She thanked OCTA and the EOC for taking care of our lands.

Gloria Sefton, Saddleback Canyons Conservancy, from Trabuco Canyon said her organization also supported Measure M over a decade ago. Her organization has regularly submitted comments on the plans and now offers an endorsement of the plan. She said five of the seven preserves acquired by OCTA as part of the mitigation program are located in the unincorporated portions of Orange County. These lands are unlike any others and are very special. They have additional levels of resources protecting them through the Foothill/Trabuco Plan and the Silverado/Modjeska Plan. Her organization urges compliance and awareness of these plans. OCTA's understanding of the rural communities and the environmental sensitivity is appreciated.

Gloria Sefton said additional conservation funding may be available in the 2018 Park Bond. She said OCTA might be eligible for some of these funds. She thanked the committee for their strong leadership and ongoing public engagement – it has been a great accomplishment.

Michael Wellborn, Friends of Harbors, Beaches and Parks, said his organization managed the coalition that supported Measure M. In the year 2000 his organization created the Green Vision Map. He said this map documents the protected land in and around Orange County. When the map was created, they never thought it would be used for conservation by an infrastructure agency and certainly did not think OCTA would generate \$243 million for conservation restoration and stewardship purposes. This map was used for the initial call for projects by OCTA. Nearly 1,300 acres have been converted to protected lands due to Measure M funding. Friends of Harbors, Beaches and Parks supports Alternative 2 as described in the EIR/EIS and commend OCTA and EOC on this conservation plan.

Recommendations

A motion was made by Melanie Schlotterbeck. A committee member seconded the motion and passed unanimously to endorse all three recommendations: Final EIR/EIS, Final NCCP/HCP, and implementing agreement between OCTA, United States Fish and Wildlife Service, and the California Department of Fish and Wildlife.

5. Harriett Wieder Restoration Project Update

Lesley Hill introduced David Pryor from the Bolsa Chica Conservancy (BCC). David gave a brief update.

6. Chino Hills State Park and North Coal Canyon Restoration Projects Update Lesley Hill gave a brief summary of the Chino Hills State Park and North Coal Canyon Restoration Projects. Lesley then introduced Ken Kietzer from Chino Hills State Park who provided an update on the projects. Ken then asked the committee for their endorsement of the amendment to the scope change on the project.

Melanie Schlotterbeck asked about the number of proposed trails. Ken Kietzer said the State Parks will maintain one access point for the public to access the trails.

Melanie Schlotterbeck asked about access to water in the Telegraph Canyon location. Ken Kietzer said getting water to the location has been difficult and there will be two sites with irrigation systems that will be easy to operate.

Melanie Schlotterbeck said Glider Point sometimes gets burned by illegal fireworks. She said she is glad to hear the area will be restored with cactus to deter trespassers from coming to this point and happy to have it restored.

A motion was made by Melanie Schlotterbeck. A committee member seconded the motion and passed unanimously to endorse the California Department of Parks and Recreation's revised scope of work as described herein for the Chino Hills State Park Restoration Project

7. Trabuco Canyon Company, LLC: Residual Parcel Update

Dan Phu said there is another offer on the table for the Trabuco Canyon Company, LLC Residual Parcel. An EOC meeting is anticipated in November to present the results of the appraisal and due diligence documents for Committee consideration.

Melanie Schlotterbeck asked if the appraisal review will happen before the next EOC meeting. Dan Phu said yes the appraisal review will be done before the next committee meeting.

8. O'Neill Oaks Preserve Hike and Ferber Ranch Preserve Equestrian Ride

Marissa Espino said the O'Neill Oaks Preserve Hike and Ferber Ranch Preserve Equestrian Ride will take place on October 29, weather permitting. She said there will be another hike on November 19 that is family oriented, so younger children will be welcomed.

David Chapel asked how people will know if the event has been cancelled. Marissa Espino said the information will be on the website and she will contact anyone who has RSVP'd. David asked if it is opened to the public. Marissa said yes, but you have to register online to get all the information.

9. Public Comments

Penny Elia, Sierra Club, said she was concerned about a map that was distributed by the City of Laguna Beach to the Coastal Commission and other agency folks. This map (produced by OC Parks) shows a hiking trail that crosses over the OCTA Aliso Canyon property and an adjacent preserved parcel. She spoke to OC Parks about her dismay that the Sierra Club was not consulted. A group scouting out the hike was going through a restoration site and she confronted them. Public access is wonderful, but we need to protect conservation land. She felt obligated to share the information with the EOC. She has invited OCTA staff to attend a meeting to discuss this concern further.

10. Committee Member Reports

11. Next Meeting – TBD

12. Adjournment

The meeting adjourned at 3:42 p.m.

November 21, 2016 Environmental Oversight Committee
Agenda Item 4 Summary
West Loma Restoration Project Update

Overview

Measure M2 (M2) includes an Environmental Mitigation Program (EMP) to deliver comprehensive mitigation for the environmental impacts of freeway projects in exchange for streamlined project approvals from the California Department of Fish and Wildlife, and the United States Fish and Wildlife Service (collectively referred to as Wildlife Agencies).

As part of this effort, the Orange County Transportation Authority (OCTA) fund conservation property acquisitions as well as funding habitat restoration projects. To date, two rounds of restoration funding have been approved by the OCTA Board of Directors, totaling just over \$10 million. The Irvine Ranch Conservancy's West Loma Restoration Project was one of eleven funded restoration projects. A status report is provided on the project.

Recommendation

- A. Endorse the Irvine Ranch Conservancy's revised scope of work as described herein for the West Loma Restoration Project.

Background

The Irvine Ranch Conservancy (IRC) submitted several project proposals for the second round of the M2 EMP restoration project funding. On May 14, 2012, the Board approved two habitat restoration projects which were sponsored by the IRC (West Loma and Lower Silverado Canyon). The West Loma restoration project proposal consisted of approximately 62 acres of coastal sage scrub and riparian habitat, with a project budget of \$1,322,800. This project included a key wildlife connection component to improve movement (including large mammal) around the West Loma undercrossing at State Route 241. This would have been achieved through realignment of existing fencing along SR-241 and habitat restoration within the California Department of Transportation (Caltrans) right of way (ROW). IRC earmarked approximately \$80,000 to complete this component of the project.

Since the project's approval, IRC has not been able to move forward on the wildlife connectivity component as originally planned. Restoration within Caltrans ROW became unfeasible due to complications arising from deed restriction requirements and high land transfer fees. Additionally, the Transportation Corridor Agency (TCA) now has plans to extend high-quality wildlife fencing along the SR-241 toll road in the area bordering West Loma. IRC has collaboratively assessed how the approved funding could be utilized to improve wildlife connectivity in a similar manner that would have been achieved for the West Loma restoration project. Further improvements of the Coal Canyon undercrossing at State Route 91 (SR-91) emerged as a preferred option.

Discussion

Representatives from IRC, OCTA, the Wildlife Agencies, Caltrans, and UC Davis (Dr. Winston Vickers) met on site to discuss the Coal Canyon undercrossing on May 12, 2016.

November 21, 2016 Environmental Oversight Committee
Agenda Item 4 Summary
West Loma Restoration Project Update

The goal of the field meeting, was to discuss which options or tasks would be the most beneficial to enhance wildlife connectivity at the Coal Canyon undercrossing, while taking into consideration site constraints [i.e. future TCA and Riverside County Transportation Commission (RCTC) freeway projects and existing use of the area]. IRC provided a brief background to the project as recommended by Lisa Lyren, former United State Geologic Service (USGS) wildlife biologist, who had been extensively involved with wildlife connectivity issues in the vicinity of SR-91.

One key wildlife connectivity site was the Coal Canyon undercrossing at SR-91, which was decommissioned as a freeway interchange in 2002. At that time, a consensus was reached among stakeholders and Caltrans that the undercrossing could serve both wildlife and humans as an occasional access area primarily for Caltrans maintenance activity, State Parks access, and law enforcement. Thus far, monitoring efforts have shown very limited use of the undercrossing by wildlife. This is likely due to the lack of cover immediately surrounding the undercrossing as well as noise and light disturbance associated with the freeway. A nearby box culvert is, however, used by bobcats and coyotes. There was also documentation of a mountain lion utilizing this culvert on one occasion. Caltrans is aware of the importance of this culvert and is performing annual maintenance to help keep it clear, which benefits the wildlife as well as the integrity of the infrastructure.

Meeting participants discussed wildlife movement enhancement options for both the primary Coal Canyon undercrossing and the adjacent box culvert. Improvements have been evaluated and are being recommended for implementation within the originally budgeted amount. These improvements include the installation of cameras to monitor wildlife use of this area, placement of screening along existing chain link fencing, as well as strategically placed native plants to provide additional cover for wildlife. Please refer to Attachment A for a summary of the project components, plant palette, table of costs and timing of implementation, site map of the placement of improvement elements, and site photos.

Next Steps

IRC requests the EOC to endorse a change in scope to the originally approved West Loma restoration project. The new project would replace the original wildlife connectivity component at the West Loma undercrossing with a wildlife connectivity improvement at the Coal Canyon undercrossing. The budget of the Coal Canyon undercrossing matches the \$80,000 originally calculated for the West Loma wildlife connectivity component.

Attachment

A. Components of IRC/OCTA Measure M2 Coal Canyon Undercrossing Wildlife Connectivity Project

Attachment A

Components of IRC/OCTA Measure M2 Coal Canyon Undercrossing Wildlife Connectivity Project

The following improvements for wildlife connectivity at Coal Canyon have been evaluated and are being recommended for implementation within the originally Board approved budgeted amount:

1.) Camera Monitoring

Seven wildlife monitoring cameras will be installed in designated locations to track wildlife movement through the undercrossing and the adjacent culvert (Figure 1). Cameras will be installed in early 2017 and will be monitored for a period of approximately five years, ending no later than December 2022. Data collected from these cameras will be analyzed and presented in each annual report for the West Loma Subwatershed mitigation project.

2.) Fence Screening

Approximately 2,000 linear feet of lightweight screening will be installed on existing Caltrans chain link fencing to reduce light pollution (Figure 1). Vegetation along the chain link fence will be trimmed prior to installation. Screen material shall be “Flexmesh” vinyl coated polyester fabric with 80% blockage. Available colors include: forest green and black. Fence screening will be installed in early 2018 and will be maintained to the extent possible within budget constraints.¹

3.) Plantings

Approximately 250 container plants will be installed in key areas (Figure 1 and Appendix A) to reduce bare ground and provide needed vegetative cover for reptiles and small and large mammals. A planting palette (Table 1) has been developed with input from both Caltrans and Chino Hills State Park (CHSP) and includes larger native evergreen shrubs to increase cover. Plant propagules will be collected from local sources, based on availability. Shrubs known to support California Gnatcatcher nests (e.g. California buckwheat, California sage, black sage, California sunflower) have not been included. Plants will be installed in late 2017/early 2018 and will be maintained throughout the course of the project, ending December 2022.² Maintenance includes up to 20% replacement of failed plantings within the first two years after planting. Extensive weed control throughout project duration is not included. Vegetation planted may be impacted by future freeway projects and no mitigation would be required by the wildlife agencies if/when vegetation is impacted. However, Caltrans has stated that the vegetation would be replaced after construction was complete. Therefore the impact would be temporary.

¹ A maximum of \$1,500.00 will be reserved to repair the screening material in the event of tears, rips, etc. Graffiti removal or other repairs due to vandalism are not included in the scope of this proposal beyond current funds available for repair. Any future repairs to the chain link fence that may be necessary are not included in the scope of this proposal.

² Includes the provision of supplemental water as needed during establishment (ending December 2019) and weed control until December 2022.

Table 1 – Planting palette for Coal Canyon undercrossing.

Scientific Name	Common Name	Source(s)	Planting Location(s)	Jurisdiction
<i>Baccharis pilularis</i>	Coyote brush	Irvine Ranch	Road only	Caltrans
<i>Baccharis sarathroides</i>	Broom baccharis	Irvine Ranch	Road only	Caltrans
<i>Baccharis salicifolia</i>	Mulefat	Irvine Ranch, CHSP	Road only	Caltrans
<i>Heteromeles arbutifolia</i>	Toyon	Irvine Ranch, CHSP	Road, culvert	Caltrans, CHSP
<i>Isocoma menziesii</i>	Goldenbush	Irvine Ranch	Road only	Caltrans
<i>Malacothamnus fasciculatus</i>	Chaparral mallow	Irvine Ranch	Road, culvert	Caltrans, CHSP
<i>Malosma laurina</i>	Laurel sumac	Irvine Ranch	Road, culvert	Caltrans, CHSP
<i>Platanus racemosa</i>	Western sycamore	Irvine Ranch	Culvert only	Caltrans, CHSP
<i>Prunus ilicifolia</i>	Holly-leaved cherry	Irvine Ranch, CHSP	Road, culvert	Caltrans, CHSP
<i>Quercus berberidifolia</i>	Scrub oak	Irvine Ranch, CHSP	Road, culvert	Caltrans, CHSP
<i>Rhus integrifolia</i>	Lemonadeberry	Irvine Ranch, CHSP	Road, culvert	Caltrans, CHSP

4.) Informational Sign

An informational sign will be added on the north side of the undercrossing (Figure 1) to reduce vandalism and increase an appreciation of the wildlife crossing. This sign would contain no more than 150 words maximum and be approximately 24" x 36" in size. The general design of the sign enclosure, while as simple and cost-effective as possible, will be modeled on National Park Service standards (Appendix B) and will include that the project is supported by Measure M2 funds. The sign will be installed in early 2018 and will be maintained to the extent possible within budget constraints.³

Budget Breakdown

The budget breakdown is presented in Table 2 on the following page.

³ Minor superficial damage will be repaired if feasible, and the text/image insert will be replaced as needed.

Table 2 - Cost of Proposed Actions

Task #	Task	Start Date	Duration	End Date	Total Amount
1	Purchase, Installation, and Monitoring of Wildlife Cameras	Early 2017	5 years	December 2022	\$32,350.00
2	Purchase and Installation of Fence Screening	Early 2018	1 year	December 2018	\$21,750.00
3	Collection, Propagation, Installation, and Establishment of Plantings	Late 2017/ Early 2018	2 years	December 2019	\$23,400.00
4	Purchase and Installation of Interpretive Sign	Early 2018	1 year	December 2018	\$2,500.00
2,3,4	Maintenance and supplemental repairs within budget constraints (see text)	2018	5 years	December 2022	(included in above)
TOTAL					\$80,000.00 ⁴

⁴ Total amount assumes no additional fees for Entry or Collection Permits from Caltrans or CA State Parks. Also assumes no special requirements for traffic control or prevailing wage.

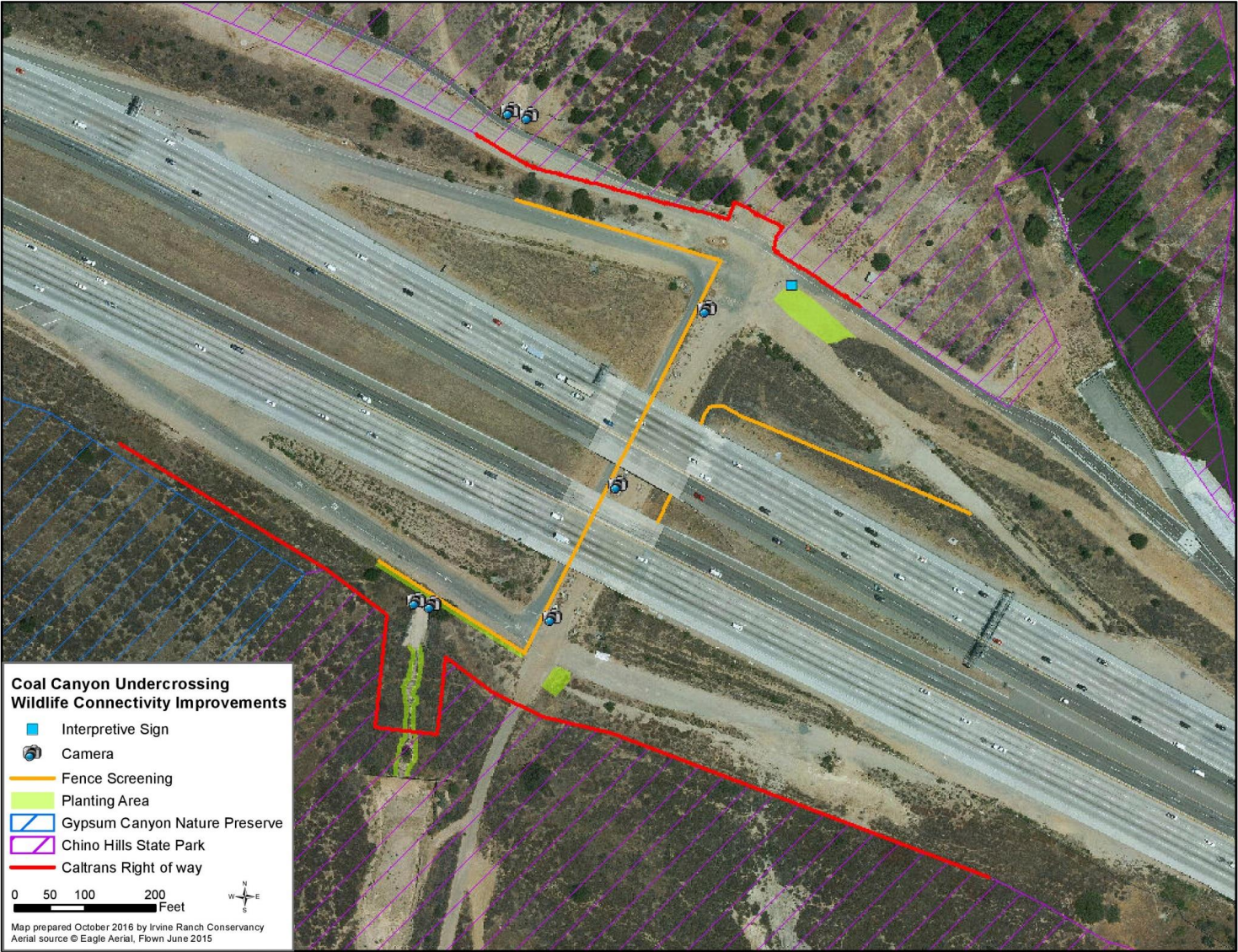


Figure 1 - Proposed improvements to wildlife connectivity at the Coal Canyon undercrossing along the SR-91

Appendix A

Photos of Current Conditions
at Coal Canyon Undercrossing



Photo 1 – Northeast side of undercrossing (looking east).



Photo 2 – Northeast side of undercrossing (looking south).



Photo 3 – South side of undercrossing (looking north).



Photo 4 – South side of undercrossing (looking south).



Photo 5 – South side of undercrossing (looking northwest).



Photo 6 – South side of undercrossing (looking southeast).



Photo 7 – South side of undercrossing (looking southeast).



Photo 8 – South side of undercrossing, upstream from dual culverts (facing southwest).

Appendix B

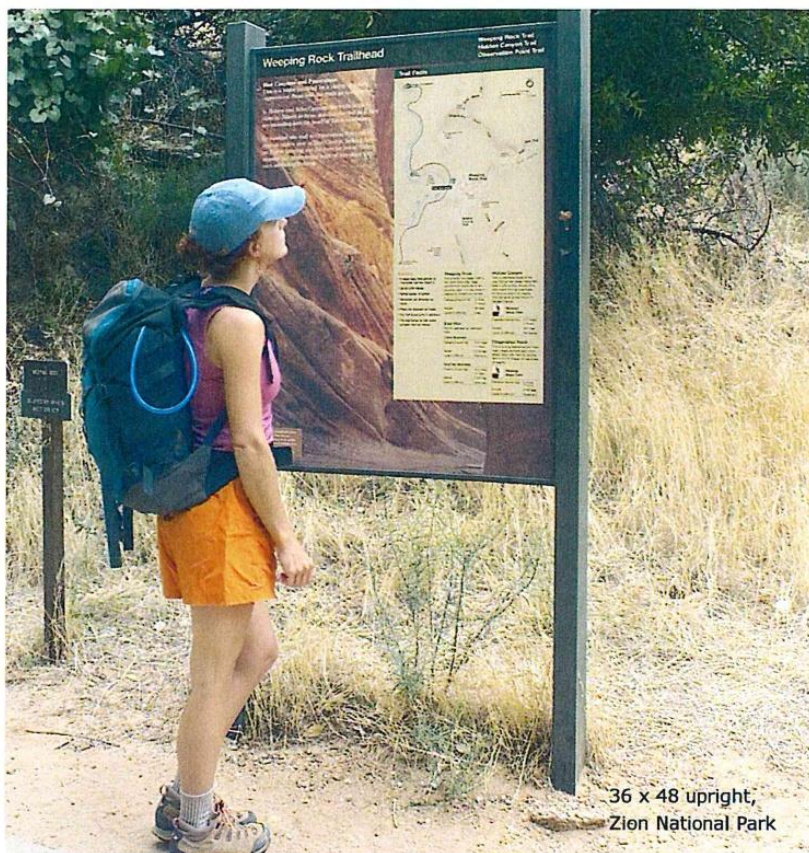
Example of Informational Sign

Section A

Wayside Guide | Upright



36 x 48 upright,
Bandelier National Park



36 x 48 upright,
Zion National Park

Upright Orientation Waysides

Common Sizes

Most upright orientation waysides are 36w x 48h. Smaller panels are generally 24w x 36h.



What sets uprights apart from low-profile waysides is that they do not direct a visitor's attention to a specific landscape feature within view. They introduce a trail or an area suitable for a day-hike. They are placed at a pedestrian's decision point and provide orientation, safety, and site significance. They are part of a wayfinding system that may include signs, brochures, and other media.

What Makes an Effective Orientation Wayside?

Like low-profile waysides, orientation waysides are a graphic medium that must attract the pedestrian en route. They should answer the natural questions related to a safe, comfortable, and meaningful experience. They should help visitors decide whether to invest the time and energy required to reach the destination described. The balance between orientation and interpretation depends on the nature and complexity of the site or trail.

The next four pages show some of the key elements of effective upright orientation wayside exhibits.