

COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4[™] FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 TOM BURNS, PLANNING DIRECTOR

NOTICE OF ENVIRONMENTAL REVIEW PERIOD

SANTA CRUZ COUNTY

APPLICANT: Steve Wiesner of SC County Department of Public Works

APPLICATION NO.: 08-0099

APN: N. Rodeo Gulch (Post Mile Marker 4.35)

The Environmental Coordinator has reviewed the Initial Study for your application and made the following preliminary determination:

XX	Negative Declaration (Your project will not have a significant impact on the environment.)
•	Mitigations will be attached to the Negative Declaration.
	No mitigations will be attached.
	Environmental Impact Report (Your project may have a significant effect on the environment. An EIR must be prepared to address the potential impacts.)

As part of the environmental review process required by the California Environmental Quality Act (CEQA), this is your opportunity to respond to the preliminary determination before it is finalized. Please contact Matt Johnston, Environmental Coordinator at (831) 454-3201, if you wish to comment on the preliminary determination. Written comments will be received until 5:00 p.m. on the last day of the review period.

Review Period Ends: May 28, 2008

Bob Loveland Staff Planner

Phone: 454-3163

Date: April 22, 2008

NAME:

N. Rodeo Gulch 4.35

APPLICATION:

08-0099

A.P.N:

County Right of Way

NEGATIVE DECLARATION MITIGATIONS

- A. In order to ensure that mitigation measures B through D are communicated to the crew members responsible for constructing the project and are properly implemented, the Department of Public Works (DPW) shall organize a preconstruction meeting on the site to review the mitigation measures. The following parties shall attend: DPW project engineer, project crew supervisor, project biologists and Environmental Planning staff. The disturbance envelope will be verified, silt fence will be inspected, erosion control plan verified, dewatering and fish removal plan reviewed, and the results of pre-construction wildlife surveys will be collected at that time.
- B. In order to prevent adverse impacts to California red legged frogs (Rana aurora draytonii) (CLRF) and foothill yellow-legged frogs (Rana boylii), a qualified wildlife biologist shall perform pre-construction surveys and conduct an educational session with all work crewmembers prior to disturbance. If either species of frog are present, all vegetation removal and disturbance shall only occur in the presence of a qualified biological resource monitor. If CLRF are identified in the work area during the project the monitor shall halt activity and contact the U.S. Fish and Wildlife Service for direction and recommendations to avoid take of the species.
- C. In order to prevent erosion and sedimentation of the creek, prior to disturbance DPW shall implement the erosion control plan reviewed and approved by Environmental Planning staff. At the pre-construction meeting, Environmental Planning staff shall confirm that access to the work area is from the top of the bank and construction will be accomplished per the erosion control plan, confirm that the spoils storage area is away from the creek bank and protected from erosion, and confirm the silt fencing and other erosion control features are properly installed.
- D. To minimize noise impacts on surrounding properties to a less than significant level during construction, construction shall be limited to the time between 8:00 A.M. and 5:00 P.M. weekdays.



Environmental Review Initial Study

Application Number: 08-0099

Date: April 3, 2008

Staff Planner: Bob Loveland

I. OVERVIEW AND ENVIRONMENTAL DETERMINATION

APPLICANT: County of Santa Cruz

(DPW)

CONTACT: Steve Wiesner

(831) 454-2160

APN: N. Rodeo Gulch (Post Mile Marker

4.35)

SUPERVISORAL DISTRICT: First (Janet

Beautz)

LOCATION:

The project area is located on N. Rodeo Gulch Road at Post Mile-Marker 4.35.

SUMMARY PROJECT DESCRIPTION:

Winter stormwater flows within Rodeo Gulch Creek (2005 to 2006) eroded the toe of the roadway embankment causing the slope embankment and associated roadway to fail into the stream channel (FEMA DR- CA 1628). In order to restore the road embankment and associated roadway back to pre-disaster configuration, the following activities need to be completed: construct a new retaining wall; place Rock Slope Protection (RSP) at the toe of the slope; revegetate restored roadway embankment; place new asphalt pavement and install a new steel guard rail.

ALL OF THE FOLLOWING POTENTIAL ENVIRONMENTAL IMPACTS ARE EVALUATED IN THIS INITIAL STUDY. CATEGORIES THAT ARE MARKED HAVE BEEN ANALYZED IN GREATER DETAIL BASED ON PROJECT SPECIFIC INFORMATION.

	Geology/Soils	_X	Noise
	Hydrology/Water Supply/Water Quality	_X	Air Quality
x	Biological Resources		Public Services & Utilities
X	Energy & Natural Resources	_	Land Use, Population & Housing
	Visual Resources & Aesthetics		Cumulative Impacts
	Cultural Resources	_	Growth Inducement
	Hazards & Hazardous Materials	X	Mandatory Findings of Significance
X	Transportation/Traffic		

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DISCRETIONARY APPROVAL(S) BEING CONSIDERED

General Plan Amendment	Grading Permit
Land Division	X Riparian Exception
Rezoning	Other:
Development Permit	
Coastal Development Permit	
NON-LOCAL APPROVALS	
Other agencies that must issue permits or a	authorizations:
California Department of Fish & Game National Marine Fisheries Service U.S. Fish & Wildlife Service Army Corps of Engineers	
ENVIRONMENTAL REVIEW ACTION	
On the basis of this Initial Study and suppor	rting documents:
I find that the proposed project COULE environment, and a NEGATIVE DECLARAT	. •
X I find that although the proposed project environment, there will not be a significant emitigation measures have been added to the DECLARATION will be prepared.	effect in this case because the attached
I find that the proposed project MAY had an ENVIRONMENTAL IMPACT REPO	ave a significant effect on the environment RT is required.
Matt Johnston	7/24/08 Date

For: Claudia Slater

Environmental Coordinator

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II. BACKGROUND INFORMATION

EXISTING SITE CONDITIONS: Parcel Size: NA	
Existing Land Use: County maintained road corridor.	d adjacent to an established riparian
Vegetation: Slope in area affected by pro- Nearby Watercourse: Rodeo Creek Gulch Distance To: Road surface is approximately	
ENVIRONMENTAL RESOURCES AND CO Groundwater Supply: No Water Supply Watershed: No Groundwater Recharge: Yes Timber or Mineral: No Agricultural Resource: No Biologically Sensitive Habitat: Yes Fire Hazard: No Floodplain: No Erosion: No Landslide: Yes	Liquefaction: No Fault Zone: No Scenic Corridor: No Historic: No Archaeology: No Noise Constraint: No Electric Power Lines: Yes Solar Access: Yes Solar Orientation: NA Hazardous Materials: No
SERVICES Fire Protection: Central Fire School District: Soquel Union Sewage Disposal: NA	Drainage District: Zone 5 Project Access: Post Mile-Marker 4.35 Water Supply: No
PLANNING POLICIES Zone District: Residential Agriculture General Plan: Suburban Residential Urban Services Line: Inside Coastal Zone: Inside	Special Designation: No X Outside X Outside

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PROJECT SETTING AND BACKGROUND:

The project area is located within the county right-of-way along N. Rodeo Gulch Road adjacent to Post Mile Marker 4.35 (Attachment 1). The topography of the site includes a low to moderate gradient stream located within a deeply incised channel and flanked by steep vegetated slopes. Although the area damaged by the slope failure has minimal vegetative cover, the surrounding slopes are covered with well established riparian vegetation: white alder (*Alnus rhombifolia*), willow (*Salix sp.*), California bay (*Umbellularia californica*), blackberry (*Rubus sp.*), Poison oak (*Toxicodenddron diversilobum*) and five-finger fern (*Adiantum aleuticum*). A biotic assessment has been completed and has identified that the project area provides suitable habitat for two federally listed species: Tidewater Goby (*Eucyclogobius newberryi*) listed as endangered and California Red-legged Frog (*Rana aurora draytonii*) listed as threatened.

During winter flood events of 2005 to 2006, heavy stormwater flows within Rodeo Gulch Creek washed out the toe of the roadway embankment causing total failure of the road embankment and half the road width and shoulder of Rodeo Gulch Road. The County of Santa Cruz requested public assistance to reconstruct the failed roadway through the Federal Emergency Management Agency (FEMA) and was approved (FEMA DR- CA 1628).

DETAILED PROJECT DESCRIPTION:

The repair work involved in reestablishing and stabilizing this section of county maintained roadway includes constructing: a steel solider pile and timber lagging retaining wall (64 linear feet); toe slope protection between the creek channel and the base of the retaining wall (placement of 426 tons of Rock Slope Protection (RSP); reconstruct roadway and shoulder and construct a metal beam guardrail (Attachment 2 Sheet 2). The construction area is approximately 150 feet long by 50 feet wide. Two construction staging areas will be located along Rodeo Guich Road (adjacent to the limits of construction). A temporary construction access road will be installed, northwest corner of the construction area, in order to complete the necessary earthwork (620 cubic yards) for the new retaining wall, placement of the RSP and reconstructing the failed roadway and shoulder. The construction access road will be removed upon project completion and appropriate Best Management Practices (BMP's) will be implemented to stabilize areas of bare soil. A limited section of stream channel will need to be diverted and dewatered in order to properly install the RSP (Attachment 2) Sheet 5). The dewatering process will be achieved by utilizing temporary dams, diversion pipe and portable pump(s). The placement of silt fencing, straw wattles and other BMP measures will be employed during construction activities in order to safeguard water quality and federally listed species (Attachment 2 Sheet 7). The implementation of the Erosion control and Revegetation Plans will provide short-term slope stability for areas disturbed during construction activities and long-term slope stability for the roadway embankment below the new retaining wall (Attachment 2 Sheets 6 & 7).

Significant Less than **Environmental Review Initial Study** Significant Less than Or Page 5 Significant Potentially with Application: 08-0099 Mitigation Or Not Significant No Impact Applicable Impact Incorporation III. ENVIRONMENTAL REVIEW CHECKLIST A. Geology and Soils Does the project have the potential to: 1. Expose people or structures to potential adverse effects, including the risk of material loss, injury, or death involving: Α. Rupture of a known earthquake fault, as delineated on the most recent Alguist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or as identified by other substantial evidence? X В. Seismic ground shaking? The project has been engineered to minimize damage related to seismic shaking. A soils report completed by a licensed civil engineer has been completed for this project (Terra Consultants, dated 2008). Seismic-related ground failure, C. including liquefaction? Χ Refer to section "A.1B" above. D. Landslides? Х 2. Subject people or improvements to damage from soil instability as a result of on- or off-site landslide, lateral spreading, to subsidence, liquefaction,

Refer to section "A.1B" above.

or structural collapse?

3. Develop land with a slope exceeding 30%?

Х

Page 6	nmental Review Initial Study	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
4.	Result in soil erosion or the substantial loss of topsoil?			X	
erosic wattle during of will distur	treambanks and soils in the project area a on and sediment control Best Management is, silt fencing, etc. are included in the proje g construction. Following construction, hyd ows, and placement of biodegradable eros bed areas including streambanks, access thment 2 Sheet 6).	t Practice ect and w roseeding sion contr	s (BMP's) s ill be used g of native s ol fabric wil	such as str and maint seed, live s I be applie	raw ained staking
5.	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code(1994), creating substantial risks to property?				X
6.	Place sewage disposal systems in areas dependent upon soils incapable of adequately supporting the use of septic tanks, leach fields, or alternative waste water disposal systems?				X
7.	Result in coastal cliff erosion?	· .			X
	ydrology, Water Supply and Water Qual the project have the potential to:	ity			
1.	Place development within a 100-year flood hazard area?		·	X	
(FEM.	roject area is not mapped by the Federal E A) as being within a 100-year flood hazard approximate pre-disturbed location.				
2.	Place development within the floodway resulting in impedance or redirection of flood flows?			X	

The Rock Slope Protection (RSP) placed near the toe of the stream channel will be softened with willow staking (Attachment 2 Sheet 6).

Page 7	nmental Review Initial Study	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
3.	Be inundated by a seiche or tsunami?				X
4.	Deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit, or a significant contribution to an existing net deficit in available supply, or a significant lowering of the local groundwater table?				X
5.	Degrade a public or private water supply? (Including the contribution of urban contaminants, nutrient enrichments, or other agricultural chemicals or seawater intrusion).			X	
No ne	w contaminants associated with this proje	ct.			
6.	Degrade septic system functioning?				X
7.	Alter the existing drainage pattern of the site or area, including the alteration of the course of a stream or river, in a manner that could result in flooding, erosion, or siltation on or off-site?			X	,
dewat "Rock placer	emporary dams and a diversion pipe will be ser the stream (Attachment 2 Sheet 5) tem Slope Protection" (RSP) at the toe of the ment of RSP, the dams and diversion pipe upy the pre-construction stream alignment	nporarily a embankm will be re	ind allow fo ent. Upon	or the insta completio	illation of n of the
8.	Create or contribute runoff that would exceed the capacity of existing or planned storm water drainage systems, or create additional source(s) of polluted runoff?			X	<u></u> -

No newly collected runoff is proposed as part of this project.

Page 8	nmental Review Initial Study ation: 08-0099	Or Potentially Significant Impact	Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
9.	Contribute to flood levels or erosion in natural watercourses by discharges of newly collected runoff?			X	
Refer	to "B. 8" above.			•	
10.	Otherwise substantially degrade water supply or quality?		X		

The direct impacts to water quality such as sedimentation and increased turbidity will be minimized by dewatering and diverting the stream during construction. An erosion/sediment control plan has been approved that utilizes appropriate BMP's (silt fencing, straw wattles). Following construction, native seed, mulch and/or biodegradable erosion control fabric will be applied to all disturbed areas (Attachment 2 Sheet 6).

C. Biological Resources

Does the project have the potential to:

 Have an adverse effect on any species identified as a candidate, sensitive, or special status species, in local or regional plans, policies, or regulations, or by the California Department of Fish and Game, or U.S. Fish and Wildlife Service?

____ X

A biotic assessment was completed by Nationwide Infrastructure Support Technical Assistance Consultants (NISTAC) in May 2007. The report has identified that the project does have the potential to negatively impact two federally listed species: Tidewater Goby (Eucyclogobius newberryi), which is listed as endangered and California Red-legged Frog (Rana aurora draytonii), which is listed as threatened. According to the assessment, the Tidewater Goby is not presumed to be in the project area, due to lack of suitable habitat, but has been documented further downstream in Corcoran Lagoon. The lagoon is located approximately 3 miles downstream and provides the brackish water environment the species requires. The potential impact to the species is from degradation of water quality (release of excessive amounts of sediments due to construction activities and/or release of petroleum products (fuels,oils). The direct impacts to water quality such as sedimentation and increased turbidity will be minimized by dewatering and diverting the stream during construction. An erosion/ sediment control plan has been developed using appropriate soil erosion and sediment control BMPs to address these concerns. Following construction activities native seed, container stock and biodegradable erosion control fabric will be applied to all disturbed areas.

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Mitigation
Incorporation

Less than Significant Or No Impact

Not Applicable

California Red-legged Frogs have not been formally documented within the project area, but have been approximately 4.5 miles west of the area. Since there is suitable habitat present within the project area and documentation of the species within its range has been recorded, presence is assumed. The mitigations contained within "Section Four" (Avoidance & Minimization Measures) of the biotic assessment (Attachment 3) will be implemented in order to provide an acceptable level of protection to each of the two listed species.

2. Have an adverse effect on a sensitive biotic community (riparian corridor), wetland, native grassland, special forests, intertidal zone, etc.)?

Χ

The project site is within the riparian corridor and sensitive habitat as defined in the Santa Cruz County Code Sections 16.30 and 16.32, respectively; and within the jurisdiction of the California Department of Fish and Game's Stream and Lake Bed Alteration Program (Section 1600). The proposed project will result in a temporary disturbance of riparian and aquatic habitat by heavy equipment accessing and working within the project area. Riparian and sensitive habitat disturbed during construction will be revegetated with locally appropriate native species. The project proposes to remove one eucalyptus tree (non-native). Hydroseeding of native grass species, and installation of biodegradable erosion control fabric will be applied to all disturbed areas (Attachment 2 Sheet 6).

3. Interfere with the movement of any native resident or migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native or migratory wildlife nursery sites?

X

The proposed project will require the temporary dewatering of the stream. Dewatering is necessary to complete various aspects of construction and to minimize potential impacts from release of sediment and other materials that may be deleterious to the stream environment. The biological assessment completed by Nationwide Infrastructure Support Technical Assistance Consultants (NISTAC), has determined that Tidewater Gobies are not present in this reach of the stream due to lack of adequate habitat. The presence of California Red-legged Frogs has been assumed because of adequate habitat and recorded sitings of the species within the project area. The implementation of the mitigations contained within the biotic assessment will reduce potential impacts to less than significant.

Page 1	onmental Review Initial Study 10 cation: 08-0099	Or Potentially Significant Impact	Less than Significant with Mittgation Incorporation	Less than Significant Or No Impact	Not Applicable
4.	Produce nighttime lighting that will illuminate animal habitats?			X	
Cons requi	struction activities are limited to daytime hoired.	urs only s	o nighttime	lighting w	ill not be
5.	Make a significant contribution to the reduction of the number of species of plants or animals?			X	
	placement of approved Best Management entified mitigations will reduce potential imp				entation
6.	Conflict with any local policies or ordinances protecting biological resources (such as the Significant Tree Protection Ordinance, Sensitive Habitat Ordinance, provisions of the Design Review ordinance protecting trees with trunk sizes of 6 inch diameters or greater)?			X	
Santa juriso Alter distu in the treate	project sites are within the riparian corridor a Cruz County Code Sections 16.30 and 1 diction of the California Department of Fish ation Program (Section 1600). The propos rbance of riparian and aquatic habitat by he project area. Riparian and sensitive habited with appropriate Best Management Prally appropriate native species (Attachment)	6.32, resp and Gam ed project eavy equip at disturbe ctices (BM	ectively; are's Stream will result in present accessed during control (P's) and re	nd within the and Lake in tempora essing and onstruction	ne Bed Iry I working n will be
7.	Conflict with the provisions of an adopted Habitat Conservation Plan, Biotic Conservation Easement, or other approved local, regional, or state habitat conservation plan?				X
	inergy and Natural Resources s the project have the potential to:				
1.	Affect or be affected by land designated as "Timber Resources" by the General Plan?				X

Page 11	nmental Review Initial Study Ition: 08-0099	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
2.	Affect or be affected by lands currently utilized for agriculture, or designated in the General Plan for agricultural use?				X
3.	Encourage activities that result in the use of large amounts of fuel, water, or energy, or use of these in a wasteful manner?				X
4.	Have a substantial effect on the potential use, extraction, or depletion of a natural resource (i.e., minerals or energy resources)?				X
	sual Resources and Aesthetics the project have the potential to:				
1.	Have an adverse effect on a scenic resource, including visual obstruction of that resource?				X
Neithe	er the stream nor the road is designated a	scenic res	source area	۱.	
2.	Substantially damage scenic resources, within a designated scenic corridor or public view shed area including, but not limited to, trees, rock outcroppings, and historic buildings?				X
Neithe	er the stream nor the road is designated a	scenic res	source area	ı .	
3.	Degrade the existing visual character or quality of the site and its surroundings, including substantial change in topography or ground surface relief features, and/or development on a ridge line?			X	

Heavy equipment will be operating in and around the riparian zone and streambed for approximately 90 days. The effect on aesthetics will be temporary and will be visible from the County right-of-way on North Rodeo Gulch Road. Soils disturbed by equipment access and/or construction will be revegetated with native grass species

Significant **Environmental Review Initial Study** Significant Less than Or Page 12 Potentially Significant with Application: 08-0099 Mitigation Significant Applicable Incorporation No Impact Impact and container stock. The planting of willows through the rock slope protection and additional revegetation work completed on the reconstructed roadway embankment will assist in masking the presence of artificial surfaces once established (Attachment 2 Sheet 6 & 7). Create a new source of light or glare 4. which would adversely affect day or nighttime views in the area? 5. Destroy, cover, or modify any unique Χ geologic or physical feature? F. Cultural Resources Does the project have the potential to: 1. Cause an adverse change in the significance of a historical resource as defined in CEQA Guidelines 15064.5? Not mapped or expected. 2. Cause an adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines 15064.5? Χ Not mapped or expected. 3. Disturb any human remains, including those interred outside of formal

cemeteries?

Directly or indirectly destroy a unique paleontological resource or site?

4.

Less than

Χ

Significant Less than **Environmental Review Initial Study** Significant Less than Or Page 13 Potentially Significant with Not Application: 08-0099 Significant Mitigation No Impact Applicable Incorporation Impact G. Hazards and Hazardous Materials Does the project have the potential to: Create a significant hazard to the 1. public or the environment as a result of the routine transport, storage, use, or disposal of hazardous materials, not including gasoline or other motor X fuels? Implementing the project will require use of heavy equipment in the riparian area and equipment will operate in the bed and banks of the stream channel. To reduce the potential of an accidental release of hazardous materials (fuel, hydraulic fluids) a Spill Prevention & Response Plan will be implemented to prepare for the unlikely event of a fuel or oil spill (Attachment 4). 2. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? Create a safety hazard for people 3. residing or working in the project area as a result of dangers from aircraft using a public or private airport located within two miles of the project site? 4. Expose people to electro-magnetic fields associated with electrical transmission lines? Х Х Create a potential fire hazard? 5.

Χ

6.

Release bio-engineered organisms or

chemicals into the air outside of

project buildings?

	nmental Review Initial Study	Significant Or	Less than Significant	Less than	
Page 14 Applica	ation: 08-0099	Potentially Significant Impact	with Mitigation Incorporation	Significant Or No Impact	Not Applicable
	ansportation/Traffic the project have the potential to:				
1.	Cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system (i.e., substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?			X	
	sengesten at margestene).				
substa additio	esults of the project itself will not cause a fantial to the existing traffic load and capace onal use by construction workers and haudered less than significant.	ity of Rod	eo Gulch R	Road. Tem	
2.	Cause an increase in parking demand				
	which cannot be accommodated by existing parking facilities?				X
3.	Increase hazards to motorists,				
	bicyclists, or pedestrians?	 _		X	
hazar	roposed project will comply with current rods to motorists, bicyclists, and/or pedestriase potential hazards for the duration of the	ans. Temp	orary traffi	c control v	
4.	Exceed, either individually (the project alone) or cumulatively (the project combined with other development), a level of service standard established by the county congestion management agency for designated intersections, roads or highways?			X	
I. No Does	ise the project have the potential to:				
1.	Generate a permanent increase in ambient noise levels in the project vicinity above levels existing without the project?			X	

Page 15	nmental Review Initial Study 5 ation: 08-0099	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
2.	Expose people to noise levels in excess of standards established in the General Plan, or applicable standards of other agencies?		X		
activit Plan t mitiga Friday increa	e will be a temporary increase in noise in take (e.g., operation of heavy equipment) threshold of an hourly average of 50 Lequated by restricting the hours of operation to when residents are frequently absent. Note the ambient noise levels for adjoining ruction this impact it is considered to be leaved.	that may e during the to 8 AM thr loise gene areas. Giv	exceed the (day. This incough 5 PM rated during ven the limi	County Ge impact will i, Monday g construc	eneral l be through ction will
3.	Generate a temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?		X	.——	
Refer	to I. 2. above.				
	r Quality the project have the potential to:				
1.	Violate any air quality standard or contribute substantially to an existing or projected air quality violation?			X	

The North Central Coast Air Basin does not meet state standards for ozone and inhalable particulate matter (PM₁₀) (MBUAPCD, 2006). The regional pollutants of concern that would be emitted by the project are ozone precursors (Volatile Organic Compounds [VOCs] and nitrogen oxides [NOx]) and fugitive dust (PM₁₀). Ozone precursors and PM₁₀ would be emitted by onsite construction equipment and haul trucks delivering and removing materials from the project sites. Construction projects using typical construction equipment such as dump trucks, scrappers, bulldozers, compactors and front-end loaders which temporarily emit precursors of ozone [volatile organic compounds (VOC) or oxides of nitrogen (NOx)], are accommodated in the emission inventories of State-and federally-required air plans and would not have a significant impact on the attainment and maintenance of ozone standards. Project construction may result in a short-term, localized decrease in air quality due to generation of small amounts of dust. Standard dust control BMPs (e.g., periodic watering) are incorporated into the project, so air quality impacts associated with construction will be at a less than significant level.

Page 1	16	tal Review Initial Study 08-0099	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not . Applicable
2.	imp	nflict with or obstruct olementation of an adopted air ality plan?			X	
Refe	r to J	. 1. above.				
3.		pose sensitive receptors to ostantial pollutant concentrations?		·	X	
gene	ration r qua	ion may result in a short-term, localize n of dust. Standard dust control BMPs lity impacts associated with construct	s are also	incorporate	d into the	project,
4.		eate objectionable odors affecting a ostantial number of people?			X	
•		ct would have less than significant im create long-term objectionable odors	•	he construc	ction perio	d, and
		: Services and Utilities project have the potential to:				
1.	phy cor sig ord rati per	sult in the need for new or ysically altered public facilities, the estruction of which could cause nificant environmental impacts, in ler to maintain acceptable service ios, response times, or other formance objectives for any of the blic services:				
	a.	Fire protection?			·	X
	b.	Police protection?	 .			X
	C.	Schools?				X
•	d.	Parks or other recreational activities?				X

Page	17	ntal Review Initial Study 08-0099	Significant Or Potentially Significant	Less than Significant with Mitigation	Less than Significant Or	Not
			Impact	Incorporation	No Impact	Applicable
	e.	Other public facilities; including the maintenance of roads?				X
2.	nev exp cor	sult in the need for construction of w storm water drainage facilities or pansion of existing facilities, the estruction of which could cause nificant environmental effects?				X
3.	nev fac fac cou	sult in the need for construction of w water or wastewater treatment illities or expansion of existing illities, the construction of which uld cause significant environmental ects?				X
4.	trea	use a violation of wastewater atment standards of the Regional atter Quality Control Board?				X
5.	sur	eate a situation in which water oplies are inadequate to serve the ject or provide fire protection?				X
6.		sult in inadequate access for fire tection?				X
7.	cur cap	ke a significant contribution to a nulative reduction of landfill pacity or ability to properly dispose efuse?			X	
		ial excavated from the project area we moved to the county landfill.	ill be reus	ed on site s	o there w	ill be no
8.	and	sult in a breach of federal, state, I local statutes and regulations				Y

Page 1	nmental Review Initial Study 8 ation: 08-0099	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
	and Use, Population, and Housing the project have the potential to:	·			
1.	Conflict with any policy of the County adopted for the purpose of avoiding or mitigating an environmental effect?	•		X	
2.	Conflict with any County Code regulation adopted for the purpose of avoiding or mitigating an environmental effect?			X	
3.	Physically divide an established community?				X
4.	Have a potentially significant growth inducing effect, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				X
5.	Displace substantial numbers of people, or amount of existing housing, necessitating the construction of replacement housing elsewhere?				X

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M. Non-Local Approvals

	the project require approval of federal, state, ional agencies?	Yes _	X	No
N. M	andatory Findings of Significance	•		
1.	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant, animal, or natural community, or eliminate important examples of the major periods of California history or prehistory?	Yes _		No X
2.	Does the project have the potential to achieve short term, to the disadvantage of long term environmental goals? (A short term impact on the environment is one which occurs in a relatively brief, definitive period of time while long term impacts endure well into the future)	Yes _		No X
3.	Does the project have impacts that are individually limited, but cumulatively considerable ("cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, and the effects of reasonably foreseeable future projects which have entered the Environmental Review stage)?	Yes _		No X
4.	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	Yes		No X
	•			- · · · · · · · · · · · · · · · · · · ·

Environmental Review Initial Study Page 20 Application: 08-0099

TECHNICAL REVIEW CHECKLIST

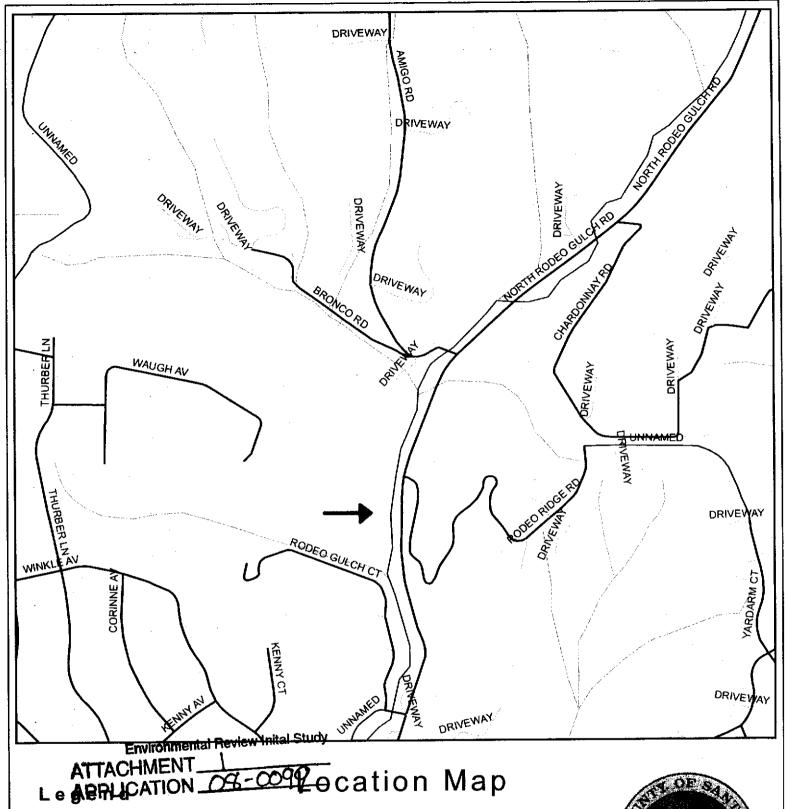
	REQUIRED	COMPLETED*	<u>N/A</u>
Agricultural Policy Advisory Commission (APAC) Review			<u>X</u>
Archaeological Review			X
Biotic Report/Assessment		X	· ·
Geologic Hazards Assessment (GHA)			_X_
Geologic Report			<u>X</u>
Geotechnical (Soils) Report Terra Consultants Inc. (2008) Riparian Pre-Site		X	X
Septic Lot Check			X
Other:			
			

Attachments:

- 1. Location Map
- 2. Project Plans (Sheets 1-7)
- 3. Avoidance and Minimization Measures (Section Four) contained within the biotic assessment.
- 4. Spill Prevention Control & Countermeasure Plan
- 5. Traffic Control Requirements

Other technical reports or information sources used in preparation of this Initial Study

- 1. Biotic Assessment completed by Nationwide Infrastructure Support Technical Assistance Consultants (NISTAC), dated May 2007. The document is on review at the Santa Cruz County Planning Department.
- 2. Biological Opinion completed by the U.S. Fish & Wildlife Service (USFWS) dated March 10, 2008. The document is on review at the County of Santa Cruz Planning Department.



Streams

- <all other values>

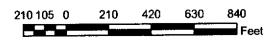
STREAMTYPE

PERENNIAL

- INTERMITTENT

SWALE







Map Created by Santa Cruz County Planning Dept April 2008

INDEX OF SHEETS

DESCRIPTION

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POST MRE TOTAL PROJECT

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COUNTY OF SANTA CRUZ

COUNTY COOL

OF PUBLIC WORKS

DEPARTMENT

COUNTY OF SANTA CRUZ

LOCATION

Sheldon Hicks Construction En

Terry Reynolds Rood Superinte

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ABBREVIATIONS

Reviewed by: Jack Sohriokoff, P.E. Traffic Englineer

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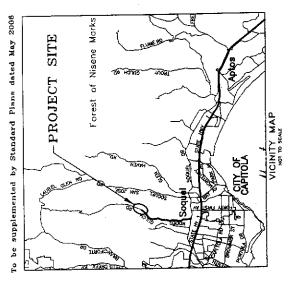
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ATTACHMENT 3, 14 7-APPLICATION 08-0099 Environmental Review Initial Study

NORTH RODEO GULCH ROAD PM 4.35 STORM DAMAGE REPAIR PROJECT

PROJECT PLANS FOR CONSTRUCTION ON

LOCATION MAP



Assistant Director of Public Works Transportation Engineering Division Registered Civil Engineer Director of Public Works Registered Civil Engineer Design Engineer Registered Civil Engineer Senior Design Engineer Registered Civil Engineer

June 24, 2008 Approved by Board of Supervisors

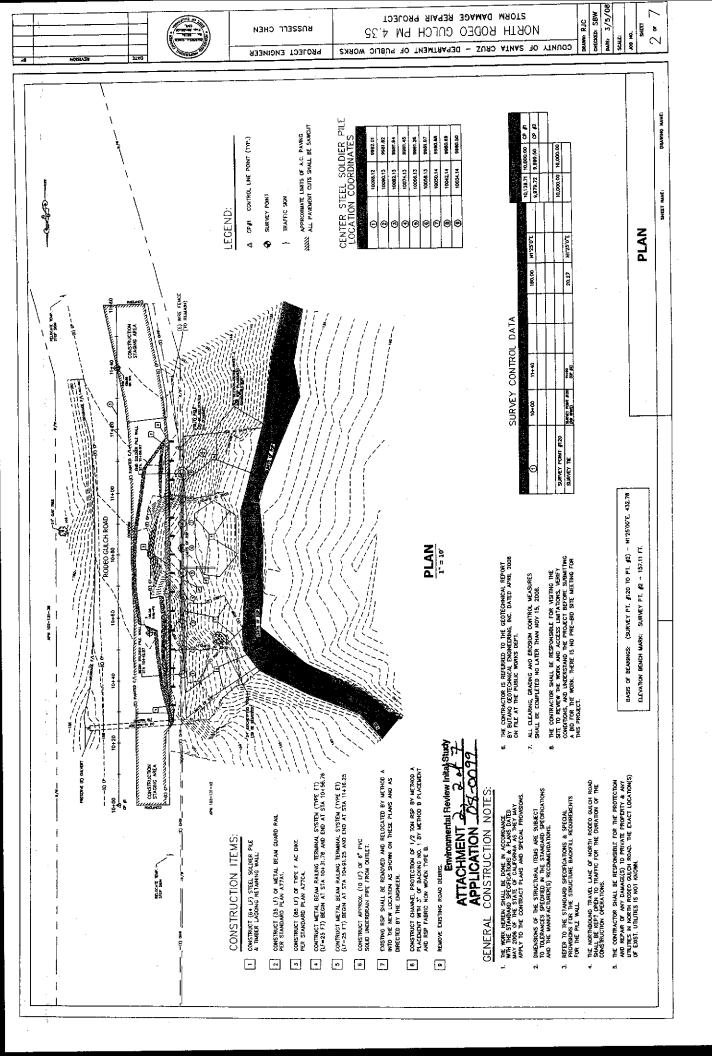
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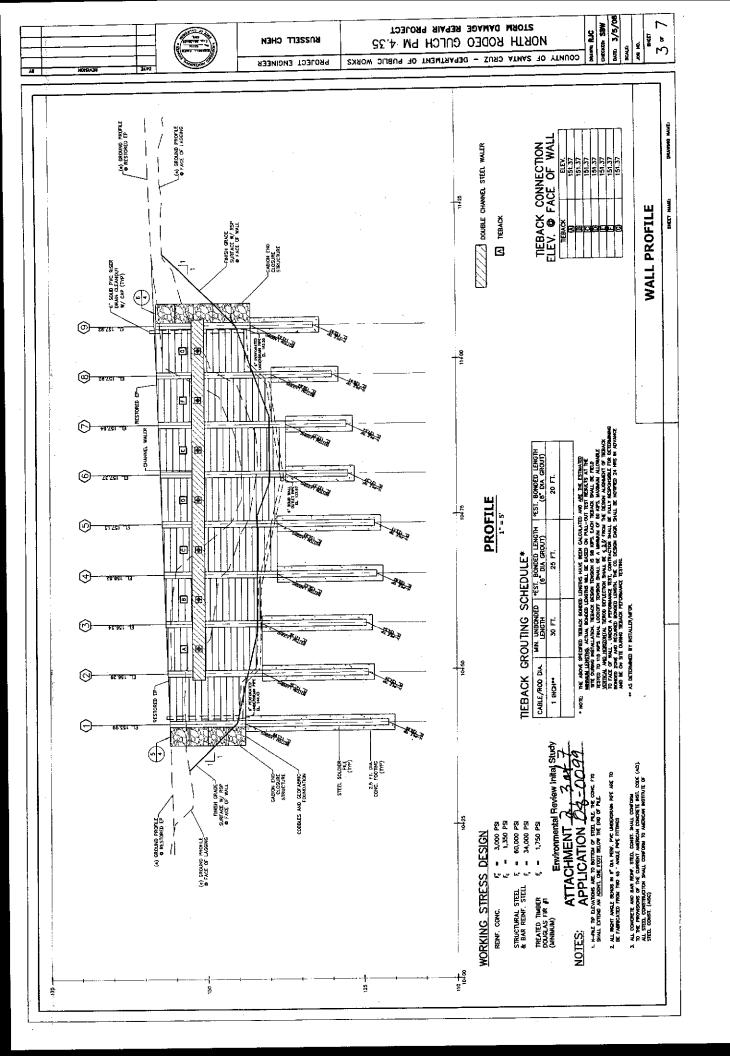
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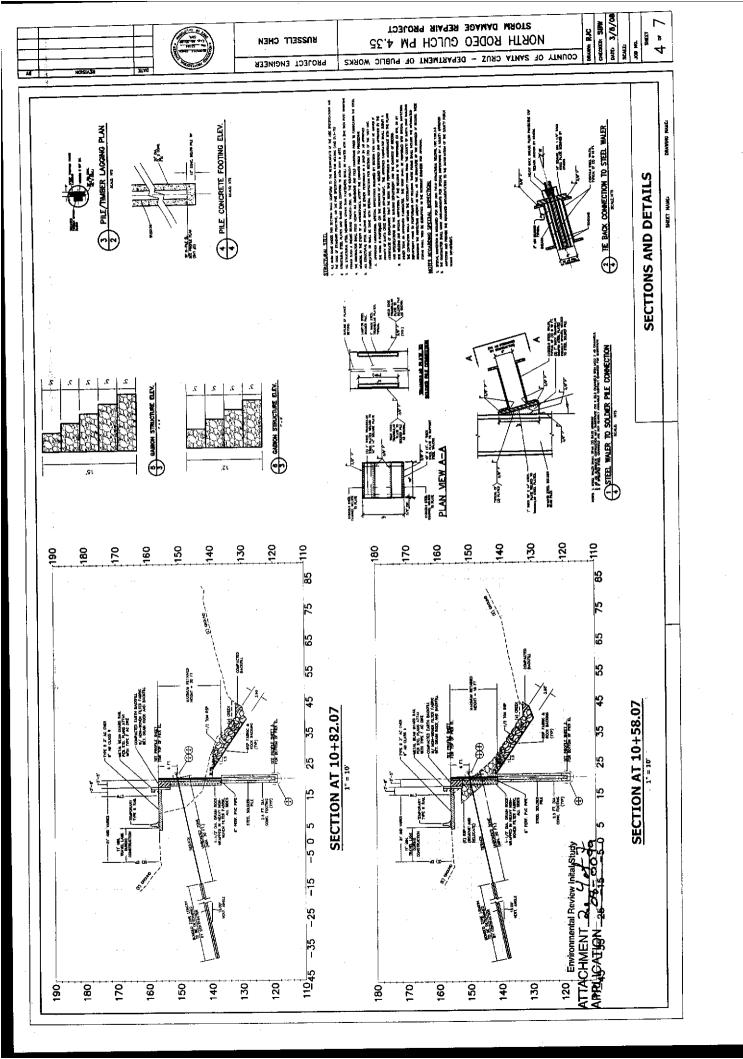
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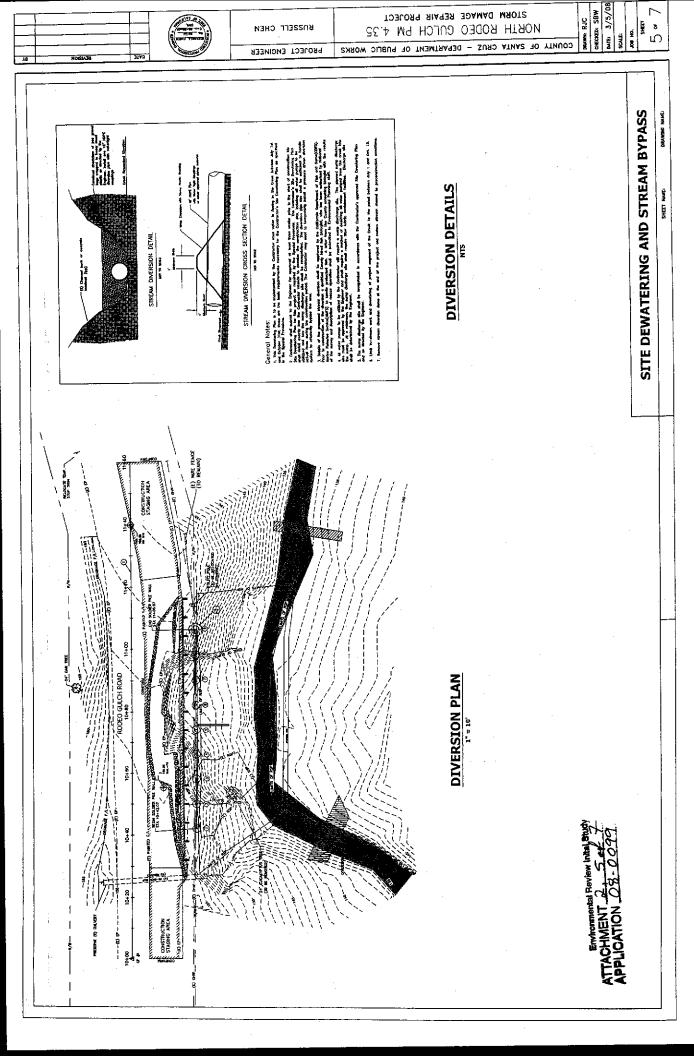
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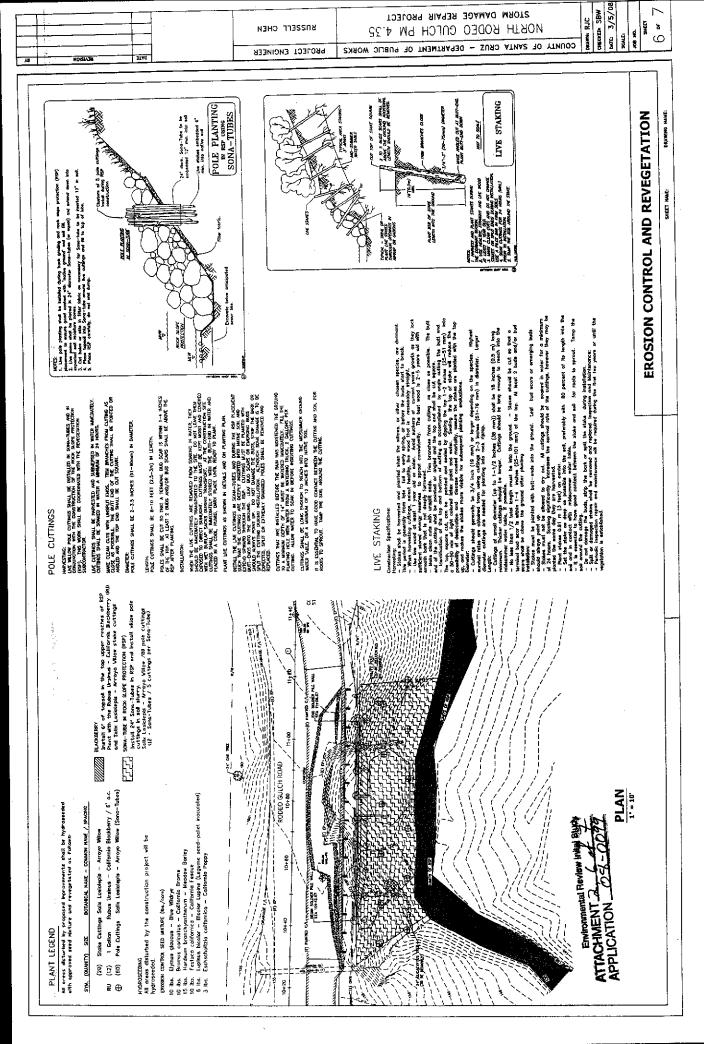
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TEMPORARY EROSION CONTROL NOTES

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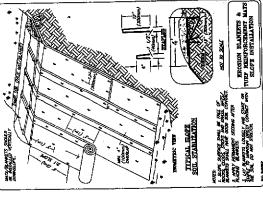
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STORM DAMAGE REPAIR PROJECT HECKED: SB) DEAWNE RJC NORTH RODEO GULCH PM 4.35 108 NO. COUNTY OF SANTA CRUZ - DEPARTMENT OF PUBLIC WORKS

PLAN

ATTACHMENT & APPLICATION OF

f SECTIONFOUR Adverse Effects and Avoidance and Minimization Measures

This section evaluates the potential effects of the proposed action to the tidewater goby and the California red-legged frog and proposes measures to avoid and minimize potential adverse effects.

4.1 POTENTIAL ADVERSE EFFECTS TO THE TIDEWATER GOBY

No habitat suitable to support the tidewater goby is present in the immediate action area. The tidewater goby inhabits brackish shallow lagoons with salinity levels from zero to 10 ppt. This habitat type does not occur in the action area. The proposed action is located approximately 2 miles upstream from the northern boundary of proposed critical habitat for the tidewater goby (USFWS 2006c). The proposed action is approximately 3 miles upstream of the Corcoran Lagoon where Rodeo Creek Gulch flows into the Pacific Ocean. Tidewater gobies were observed in 2000 in this lagoon (USFWS 2005b). The area currently proposed as critical habitat for the tidewater goby includes Corcoran Lagoon and up to 1 mile upstream of the lagoon in the Rodeo Creek Gulch drainage (USFWS 2006c). The channel of Rodeo Creek Gulch in the action area is above the elevation influenced by tides. Although direct effects to the tidewater goby would not occur, indirect effects to the tidewater goby are possible, as explained below.

4.1.1 Erosion and Sedimentation

The proposed action consisting of construction of a retaining wall along the riparian corridor of Rodeo Creek Gulch where no structure previously existed may contribute to an increase in stormwater entering Rodeo Creek Gulch. There is potential for increased erosion and sedimentation due to the loss of natural substrate for riparian vegetation. The retaining wall will have an underdrain system including filter fabric to help prevent erosion beneath it. The sediment from Rodeo Creek Gulch during construction could degrade the water quality in the area proposed as critical habitat for the tidewater goby located between 2-3 miles downstream. Therefore, avoidance and minimization measures would be implemented during project construction and implementation as described in Section 4.2.

4.1.2 Hydrology

The proposed action would not substantially change the hydrology of Rodeo Creek Gulch. Storm water runoff from the action area currently discharges into Rodeo Creek Gulch. The new retaining wall would contain an underdrain system with filter fabric to help prevent erosion beneath it, and riprap protection at the base of the retaining wall would act as energy dissipaters reducing the speed of the water into the creek. Therefore, no adverse effects are anticipated on tidewater goby habitat further downstream of the proposed action as a result of hydrologic changes.

4.2 AVOIDANCE AND MINIMIZATION MEASURES FOR THE TIDEWATER GOBY

To reduce potential erosion and discharge of sediment into Rodeo Creek Gulch and eventually into the lagoon, the following measures are proposed for work conducted in the riparian zone.

Environmental Review Inital Study ATTACHMENT 3 1 4 5 APPLICATION 09-0099

4.2.1 Erosion and Sedimentation Prevention Measures

The County would implement standard BMPs and erosion control measures during construction to minimize possible discharge of sediment into aquatic habitats. These measures include, but are not limited to, installing and maintaining silt fences immediately downgradient of disturbed areas and installing and maintaining erosion control blankets on all disturbed ground.

Construction vehicles and equipment would be maintained to prevent contamination of soil or water (from external grease and oil or from leaking hydraulic fluid, fuel, oil, and grease). Equipment would be refueled and serviced at designated construction staging areas at least 100 feet from the riparian zone. The County would prepare a plan for the emergency clean up of any spills of fuel or other material and would make this plan available on site for inspection during construction.

4.2.2 Summary of Potential Adverse Effects to the Tidewater Goby

There is no habitat suitable for the tidewater goby in the immediate action area. The proposed action would not remove habitat or cause displacement, mortality, or direct injury of tidewater gobies during construction and implementation of the proposed action. Implementation of the erosion control measures and BMPs described above during construction would avoid indirect adverse effect on tidewater gobies or degradation of habitats downstream of the action area utilized by this species. For all these reasons, the proposed action is not likely to adversely affect the tidewater goby.

4.3 POTENTIAL ADVERSE EFFECTS TO THE CALIFORNIA RED-LEGGED FROG

Suitable habitat for California red-legged frogs exists within the action area, although the nearest occurrence of a California red-legged frog is approximately 4.5 miles west of the action area in an adjacent watershed (CDFG 2006b). Twenty four California red-legged frog occurrences have been recorded to the north, east and west of the action area within a 10-mile radius (CDFG 2006b). The CNDDB recorded occurrences for California red-legged frogs may be limited from the action area due to dispersal requirements. Dispersal habitat is described as accessible upland or riparian dispersal units between occupied locations within 1 mile of each other that allows for movement between such sites (USFWS 2005a). The dispersal of California red-legged frogs from these known occurrences to the area surrounding the action area may be limited by watershed connectivity and urban development. However, it is not known if Rodeo Creek Gulch has been surveyed for California red-legged frogs, and the absence of a CNDDB record does not indicate the absence of the species. Due to the number and proximity of California red-legged frog occurrences surrounding the action area and the quality of red-legged frog habitat found in Rodeo Creek Gulch, the action area is considered to provide suitable habitat for California red-legged frogs.

Suitable breeding habitat in the action area for California red-legged frog includes areas of slow moving water and abundant streambank vegetation to provide shelter and predator avoidance (USFWS 2006b). Rodeo Creek Gulch has a well-shaded riparian corridor with scattered pools, undercut banks, large woody debris, and overhanging creekbank vegetation. The riparian vegetation along Rodeo Creek Gulch is continuous above and below the action area for several miles. Upland habitat is described as upland areas within 200 feet of the edge of the riparian





4.3.1 Take and Disturbance

California red-legged frog habitat occurs in Rodeo Creek Gulch and there is potential for the species to occur in the action area. Therefore, construction activities within the riparian zone could result in disturbance, injury, and/or mortality. During construction of the retaining wall and roadway embankment, incidental take of adult and juvenile frogs could occur. Construction noise may also disturb frogs in the vicinity of the action area. Adverse effects would be most likely to occur within riparian habitat where the proposed retaining wall would be anchored on the creekbank located at the toe of the slope of the roadway embankment adjacent to Rodeo Creek Gulch. Upland areas may provide dispersal and aestivation habitat for red-legged frogs.

4.3.2 Erosion and Sedimentation

Red-legged frogs could be indirectly affected by potential erosion and sedimentation during and after construction activities. There is potential for increased erosion and sedimentation due to the loss of natural substrate for riparian vegetation. Erosion control measures would be implemented along the bank of Rodeo Creek Gulch downslope of the retaining wall during construction.

4.3.3 Adverse Effects on Habitat

Permanent loss of substrate for riparian vegetation on the east side of Rodeo Creek Gulch due to the proposed action could also affect the habitat for California red-legged frog. The construction of a new retaining wall structure where no structure previously existed will result in a loss of potential substrate for riparian vegetation. Riparian habitat in the action area potentially provides foraging, breeding, and dispersal habitat for red-legged frogs.

No riparian vegetation on the east side of Rodeo Creek Gulch would be disturbed to construct the retaining wall, because there was none remaining in the damaged area after the failure of the roadway embankment. The loss of vegetation due to the erosion of the embankment has created an opening in the overstory and understory along the creek in the action area. Therefore, no measures are recommended on this topic.

4.4 AVOIDANCE AND MINIMIZATION MEASURES FOR THE CALIFORNIA RED-LEGGED FROG

The County is responsible for implementing the following measures to avoid and reduce adverse effects to California red-legged frogs and their habitat.

4.4.1 Take and Disturbance

Construction activities in Rodeo Creek Gulch and the riparian habitat would be timed to
occur during the latter part of the dry season (non-breeding season for red-legged frogs)
(April 15 to October 15) to minimize take of dispersing frogs.



f SECTION FOUR Adverse Effects and Avoidance and Minimization Measures

- A qualified biologist would conduct preconstruction surveys of all ground disturbance areas within riparian habitats to determine if California red-legged frogs are present prior to the start of construction. These surveys would be conducted less than 2 days prior to start of construction activities in the riparian zone. If California red-legged frogs are found during any preconstruction surveys, the USFWS-approved biologist would contact the USFWS to determine if moving them is appropriate. If the USFWS gives approval for relocation, the USFWS-approved biologist would be allowed sufficient time to move the California red-legged frogs from the work site before activities begin.
- A USFWS-approved biologist would monitor construction activities that involve retaining wall construction and installation of rock slope protection along the channel bank. If California red-legged frogs are found that are likely to be killed or injured by work activities, the USFWS-approved biologist would be allowed sufficient time to move them from the site before work activities resume. The USFWS-approved biologist would relocate the California red-legged frogs the shortest distance possible to suitable habitat that would not be affected by activities associated with the proposed action. Only California red-legged frogs that are at risk of injury or death by project activities may be moved.
- Only USFWS-approved biologists would participate in activities associated with capture, handling, and monitoring of California red-legged frogs. The County would request and receive the USFWS' approval of any other biologist it wishes to employ to conduct activities with California red-legged frogs.
- If more than two (2) California red-legged frogs are found dead or injured within a 12-month period, the County would contact the USFWS immediately so the USFWS can review the project activities to determine if additional protective measures are needed.
- Exclusion fences comprised of silt fence material would be installed at the margins of the work area to prevent workers from encroaching into adjacent habitat and to prevent California red-legged frogs from entering the construction area. The fence would be monitored periodically. A fine (less than 1 centimeter) mesh would be used to avoid entrapment of amphibians in the silt fence. The silt fence would be monitored periodically during construction to evaluate its effectiveness. All fencing in this area would be maintained for the duration of construction and removed on project completion.
- To avoid attracting predators, food-related trash would be kept in closed containers and removed regularly from the action area.
- To avoid transferring disease or pathogens, the USFWS-approved biologist would follow the Declining Amphibian Populations Task Force Fieldwork Code of Practice (USFWS 2005a).
- Prior to construction, a qualified biologist would conduct training sessions to familiarize all construction personnel with the following: identification of California red-legged frogs, their habitat, general provisions and protections afforded by the ESA, measures implemented to protect the species, and a review of the project boundaries. This training would also be provided within 30 days of the arrival of any new worker.
- If an injured California red-legged frog is found, the contractor will have a USFWS-approved biologist determine the extent of the injury. If the injury is minor and the frog is likely to survive without treatment, the biologist will document the injury and release the frog in an

appropriate location previously designated by the USFWS. However, if the injured frog would require professional treatment to survive, the biologist will transport the frog to the location where a qualified professional can provide the needed treatment. The location of a qualified professional to assist the frog would have been documented prior to the start of construction. The treated frog will be released at an appropriate location as soon as its recovery will allow. Within three working days, the injured frog incident will be reported to the USFWS and reported information will include date of injury, extent of injury, and action(s) taken. If a frog were to die while being treated or a dead frog was to be located within the action area, the USFWS will be contacted within three working days. At that time, the USFWS would also provide instructions regarding the deposition of the frog.

 The County would provide the USFWS a report on the results of biological surveys and sighting records, and also document the following: the number of California red-legged frogs relocated from the action area or killed or injured during the proposed action; the dates and times of capture, mortality, or injury; specific locations of capture, mortality, or injury; approximate size and age of individuals; and a description of relocation sites.

4.4.2 Erosion and Sedimentation

Standard BMPs and erosion control measures would be implemented during construction to
minimize possible discharge of sediment into aquatic habitats. These measures include, but
are not limited to, installing and maintaining silt fences immediately downgradient of
disturbed areas and installing and maintaining erosion control blankets on all disturbed
ground.

4.4.3 Adverse Effects on Habitat

Since no riparian vegetation on the east side of Rodeo Creek Gulch would be disturbed to construct the retaining wall, no measures are recommended on this topic.

In sum, the total impacts of the proposed action on California red-legged frogs and their habitat would be minor and restricted to a small portion of the Rodeo Creek Gulch watershed. The small amount of bank and riparian habitat to be removed by this project alone would not affect the ability of the species to persist in Rodeo Creek Gulch. California red-legged frogs are known to occur in adjacent drainages to the east and west of the action area and in 247 other streams or drainages throughout its range (USFWS 2005a). Consequently, the proposed action would not appreciably reduce the quality of red-legged frog habitat in Rodeo Creek Gulch to support the survival and recovery of California red-legged frogs (USFWS 2005a).

4.4.4 Summary of Potential Adverse Effects to the California Red-legged Frog

FEMA has determined that with the implementation of the avoidance and minimization measures identified above, the proposed action may affect the California red-legged frog.

ATTACHMENT 3, 5 4 5
APPLICATION 08-0099



SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

WATER POLLUTION.

Attention is directed to the provisions of Section 7-1.01G, "Water Pollution," of the Standard Specifications.

Prior to beginning any construction work, the Contractor shall submit a water pollution control plan in conformance with the provisions of Section 7-1.01G for approval by the Engineer that details all methods and facilities to be implemented for control of surface, underground waters related to the Contractors construction activities. No soils nor silt laden or polluted waters generated from the Contractor's construction activities shall be allowed to be released untreated into Rodeo Creek.

Full compensation for conforming to the provisions of this section, not otherwise provided for, shall be considered as included in prices paid for the various contract items of work involved and no separate payment will be made therefor.

CONTRACTOR RESPONSIBILITY FOR CONTAMINATION.

If, as a result of working on this project, any land, waterway, or stream becomes contaminated, including any land, waterway, or stream that contains an endangered or threatened species, the Contractor shall immediately contact the County inspector on the job and immediately act to mitigate and limit the reason for the contamination. The Contractor shall also notify the following agencies as soon as possible of the discharge or spill: The California Office of Emergency Services, National Oceanic and Atmospheric Administration, Department of Fish and Game, and Regional Water Quality Control Board. It will be the responsibility of the Contractor to remedy the situation and monitor all cleanup activities, including all efforts to mitigate the resultant damage. In addition the contractor shall limit further damage. The Contractor shall develop a response and mitigation plan and coordinate all cleanup and remediation efforts with the appropriate regulatory agencies by acquiring all permits, clearances and consents necessary to facilitate the remediation effort. The Contractor shall supply the equipment and personnel needed to implement the response and mitigation plan.

The Contractor shall assume full responsibility for and immediately undertake the cleanup and mitigation described above even if the Contractor claims the contamination was a result of differing site conditions or any other cause for which the Contractor may dispute its liability.

Full compensation for any costs occasioned by compliance with this section shall be considered included in the contract price and no separate payment shall be made therefor unless the Contractor establishes entitlement for reimbursement pursuant to a Claim made in accordance with the provisions of this Contract.

ATTACHMENT 4
APPLICATION 08-0099

TRAFFIC CONTROL REQUIREMENTS

ORDER OF WORK.

Order of work shall conform to the provisions of Section 5-1.05, "Order of Work," of the Caltrans Standard Specifications and these special provisions. Attention is directed to "Maintaining Traffic" of these special provisions.

A minimum of one eleven foot wide north bound lane on North Rodeo Gulch at the construction site shall be kept open to public traffic at all times.

Before a lane closure will take place, warning signs for road closure shall be installed at road intersections identified elsewhere in these special provisions, with the specific locations determined by the Engineer. Coordination with the County Traffic Engineer is mandatory at least 72 hours in advance of all road closures.

The installation of temporary railings shall be complete at each required location before existing facilities are disturbed or before excavation or other work is begun. Temporary railings shall consist of Type 'K' rails per Section 12-3.08 of the Standard Specifications and shall be placed along the full length of the construction site including the staging area on North Rodeo Gulch. Temporary railings shall not be removed until such hazards no longer exist and until such removal is approved by the Engineer.

CONSTRUCTION AREA SIGNS.

Construction area signs shall be furnished, installed, maintained, and removed when no longer required in accordance with the provisions of Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications and these special provisions.

Full compensation for furnishing, installing, maintaining and removing Construction Area Signs, shall be considered as included in the contract price paid for Traffic Control System and no separate payment will be made therefor.

MAINTAINING TRAFFIC.

Attention is directed to Sections 7-1.08, "Public Convenience," 7-1.09, "Public Safety," 12-2.02, "Portable Delineators," of the Standard Specifications and these special provisions.

Lane closures shall conform to the provisions in the section of these special provisions entitled "Traffic Control System".

ATTACHMENT 5 / APPLICATION 09-0099

Personal vehicles of the Contractor's employees shall not be parked on the traveled way at any time, including any section closed to public traffic.

The Contractor shall notify local authorities of the intended date when work is to commence at least one week before work is begun. The Contractor shall cooperate with local authorities relative to handling traffic through the area and shall make arrangements relative to keeping the working area clear of parked vehicles.

The provisions in this section may be modified or altered if, in the opinion of the Engineer, public traffic will be better served and work expedited. Said modifications or alterations shall not be adopted until approved in writing by the Engineer.

The Contractor shall be responsible for installing and maintaining adequate temporary traffic control per the California MUTCD (lane markers, pavement markings and temporary traffic signs to replace existing traffic control devices removed by construction).

TRAFFIC CONTROL SYSTEM.

The traffic control system shall consist of <u>closing the south bound traffic lane only</u> and controlling traffic in the remaining north bound lane continuously for the full term of the construction contract in accordance with the details shown on the plans, the provisions of Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications, the provisions under Section 10-1.05, "Maintaining Traffic," of these special provisions, these special provisions and an approved Traffic Control Plan.

Existing traffic control signing that is in place prior to the award of this contract shall be the full responsibility of the Contractor.

Signs for traffic control system shall conform to the provisions under Section 10-1.03, "Construction Area Signs," of these special provisions.

24 hour traffic control for the duration of the construction work is mandatory.

Stop signs or photo voltaic powered signal system may be used at either end of the construction site to provide 24 hour traffic control. If relocated stop signs are utilized, then flaggers shall be required when the line of sight from the relocated south bound stop sign to relocated north bound stop sign will be obstructed.

The provisions of this section will not relieve the Contractor from his responsibility to provide such additional devices or take such measures as may



be necessary to comply with the provisions of Section 7-1.09, "Public Safety," of the Standard Specifications.

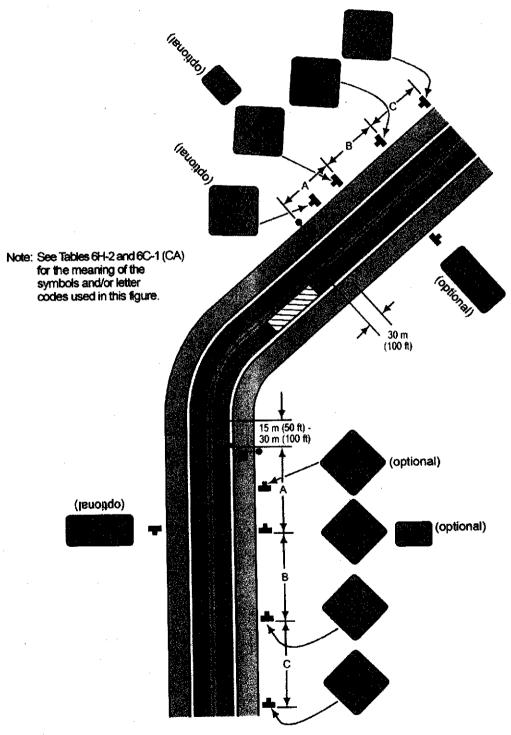
The Contractor shall immediately repair or replace any component in the traffic control system that is damaged, displaced, or ceases to operate or function as specified.

Upon completion of the work requiring lane closure, all components of the traffic control system that are the responsibility of the Contractor to install and maintain shall be removed from the site of the work and shall become the property of the Contractor.

The contract lump sum price paid for Traffic Control System shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in placing, removing, storing, maintaining, repairing, moving to new locations, replacing and disposing of the components of the traffic control system as shown on the plans, including temporary 'K' rail, photo voltaic powered traffic control signal system, in accordance with the provisions of the Standard Specifications and these special provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor.

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Figure 6H-10 (CA). Lane Closure on Two-Lane Road Using Flaggers (TA-10)



Typical Application 10

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Table 6H-2. Meaning of Symbols on Typical Application Diagrams

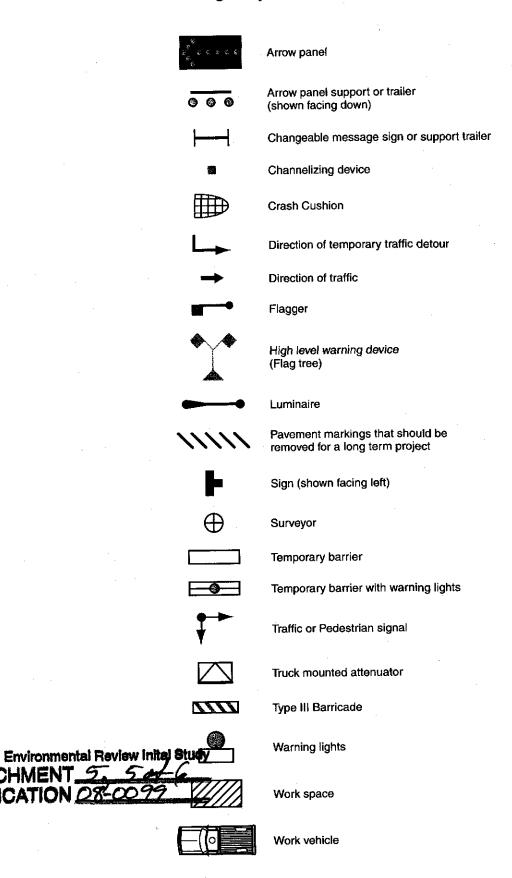


Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

	Distance Between Signs**			
Road Type	Α	В	C	
Urban (low speed)*	30 (100)	30 (100)	30 (100)	
Urban (high speed)*	100 (350)	100 (350)	100 (350)	
Rural	150 (500)	150 (500)	150 (500)	
Expressway / Freeway	300 (1,000)	450 (1,500)	800 (2,640)	

^{*} Speed category to be determined by highway agency

Table 6H-4. Formulas for Determining Taper Lengths

Speed Limit (S)	Taper Length (L) Meters
60 km/h or less	$L = \frac{WS^2}{155}$
70 km/h or more	L = WS

Speed Limit (S)	Taper Length (L) Feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	L≃WS

Where: L = taper length in meters (feet)

W = width of offset in meters (feet)

S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in km/h (mph)

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^{**} Distances are shown in meters (feet). The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The third sign is the first one in a three-sign series encountered by a driver approaching a TTC zone.)