

ADDITIONAL INFORMATION HANDOUT

WATER QUALITY

Amendment to RWQCB 401 Certifications (Cert No.33511WQ04),
dated June 15, 2012.

Second amendment to RWQCB 401 Certifications (Cert No.33511WQ04),
dated June 25, 2012.

PERMITS AND AGREEMENTS

Amendment No.1 to California Fish and Game Incidental Take Permit
(No.2081-2011-064-04), dated July 10, 2012.

MATERIALS INFORMATION

OH Sign Subsurface Investigation Report dated July 13, 2012.



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Coast Regional Water Quality Control Board

June 15, 2012

Jim Walth
Caltrans
50 Higuera Street
San Luis Obispo, CA 93401
Email: jimmy_walth@dot.ca.gov

VIA ELECTRONIC MAIL

Dear Mr. Walth:

AMENDMENT TO WATER QUALITY CERTIFICATION NUMBER 33511WQ04 FOR THE SAN JUAN ROAD INTERCHANGE PROJECT, MONTEREY COUNTY

The Department of Public Works has requested changes to the Project Information and Conditions for the San Juan Road Interchange Project, as stated in Attachment 1 of the April 3, 2012 Water Quality Certification No. 33511WQ04. The proposed changes will amend the Project Requirements section of Attachment 1 and add an additional requirement. These changes to the original Water Quality Certification are illustrated through underlined and strikeout text below:

- Project Requirements, 1st Condition
Construction activities within the jurisdictional areas ~~waters of the State~~ must be completed by between May 1st and October 15th. After October 1, materials for erosion control measures shall be kept on site and immediately available for installation in anticipation of rain events. At any time, if the National Weather Service predicts a 25% or more chance of rain within 24 hours, all construction activities in waters of the State must cease before the rain. In preparation for the rain event, the site manager must install effective erosion and sediment control measures. ~~Prior to~~ Between October 1 and October 15, construction activities may resume after the rain event has passed and site conditions are dry enough to continue work without additional risk of discharging to waters of the State. These requirements shall be in compliment with the site Storm Water Pollution Prevention Plan (SWPPP) or Erosion and Sediment Control Plan and, if applicable, enrollment in the State's Construction General Permit.
- Project Requirements, 3rd Condition
Any temporary fill for temporary construction shall be clean gravel for temporary construction in jurisdictional areas or stream channels.
- Additional Project Requirements, 20th Condition
Project activities must be performed in isolation from surface water flows in jurisdictional waters or active stream channels. No heavy equipment shall operate in the active stream channel, except as necessary to construct stream diversions and culverts, and isolate the work site.

JEFFREY S. YOUNG, CHAIR | ROGER W. BRIGGS, EXECUTIVE OFFICER

895 Aerovista Place, Suite 101, San Luis Obispo, CA 93401 | www.waterboards.ca.gov/centralcoast

These changes should not result in additional impacts to water quality. Therefore, we are amending Water Quality Certification No. 33511WQ04 for the San Juan Road Interchange Project to allow the requested changes as outlined above.

If you have questions please contact **David Innis** at (805) 549-3150 or via email at dbinnis@waterboards.ca.gov or Phil Hammer at (805) 549-3882. Please mention the above certification number in all future correspondence pertaining to this project.

Sincerely,

for
Roger W. Briggs
Executive Officer

cc:

Chuck Cesena
Caltrans District 5
email: chuck_cesena@dot.ca.gov

Holly Costa
U.S. Army Corps of Engineers
San Francisco District
Regulatory Section
1455 Market Street, Floor 16
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401 Program Manager
State Water Resources Control Board
Division of Water Quality
email: Stateboard401@waterboards.ca.gov

R9-WTR8-Mailbox@epa.gov



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Coast Regional Water Quality Control Board

June 25, 2012

Jim Walth
Caltrans
50 Higuera Street
San Luis Obispo, CA 93401
email: jimmy_walth@dot.ca.gov

VIA ELECTRONIC MAIL

Dear Mr. Walth:

SECOND AMENDMENT TO WATER QUALITY CERTIFICATION NUMBER 33511WQ04 FOR THE SAN JUAN ROAD INTERCHANGE PROJECT

Caltrans has requested changes to the Project Information and Conditions for the San Juan Road Interchange Project, as stated in Attachment 1 of the April 3, 2012 Water Quality Certification No. 33511WQ04. The proposed change will amend the Project Requirements section of Attachment 1. This change to the original Water Quality Certification is illustrated through underlined and strikeout text below:

- Project Requirements, 20th Condition
Project activities must be performed in isolation from surface water flows in jurisdictional waters or active stream channels. No heavy equipment shall operate in the active stream channel, ~~except as necessary to construct stream diversions and culverts, and isolate the work site.~~ until agency approved stream diversions have isolated the work site.

This change should not result in additional impacts to water quality. Therefore, we are amending Water Quality Certification No. 33511WQ04 for the San Juan Road Interchange Project to allow the requested changes as outlined above.

If you have questions please contact **David Innis** at (805) 549-3150 or via email at dbinnis@waterboards.ca.gov or Phil Hammer at (805) 549-3882. Please mention the above certification number in all future correspondence pertaining to this project.

Sincerely,

for
Roger W. Briggs
Executive Officer

JEFFREY S. YOUNG, CHAIR | ROGER W. BRIGGS, EXECUTIVE OFFICER

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CALIFORNIA DEPARTMENT OF FISH AND GAME
Central Region
1234 East Shaw Avenue
Fresno, California 93710



AMENDMENT NO. 1
(A Major Amendment)
California Endangered Species Act
Incidental Take Permit No. 2081-2011-064-04
California Department of Transportation
San Juan Road Interchange in Monterey and San Benito counties

INTRODUCTION

On April 2, 2012, the California Department of Fish and Game (DFG) issued Incidental Take Permit No. 2081-2011-064-04 (ITP) to the California Department of Transportation (Permittee) for take of **California tiger salamander** (*Ambystoma californiense*) (the Covered Species) associated with the San Juan Road Interchange in Monterey and San Benito counties, California (Project). The Project as described in the ITP includes constructing an overcrossing at a right angle with Route 101 northeast of the Monterey/San Benito county line. The southbound on-ramp and southbound off-ramp would be a compact diamond interchange configuration; the northbound off-ramp and northbound on-ramp would be a one-quadrant cloverleaf interchange configuration. The purpose of the proposed Project is to eliminate the left turn from San Juan Road to northbound Route 101 and improve the safety features of the transportation facility. Construction is scheduled to begin in spring 2013 and will continue until closeout in 2016. The Permittee will need to fill two small vernal pools (see Figure 2) prior to October 31, 2012, in order for the contractor to work in that area prior to June 15, 2013.

The proposed Project includes the development of 14.24 acres of undeveloped land. The habitat on-site includes coastal oak woodlands and non-native grassland. Project activities include grubbing and grading of the entire Project site, equipment storage, the creation of staging and laydown areas, excavation or fill to change ground elevation in some areas, ground compaction, construction of retaining walls, construction of the overpass, placing and compacting a sub grade base layer, road paving, relocation of utilities, trench digging, tree removal, stream realignment, culvert installation or extension and other activities to accomplish the work described above.

In issuing the ITP, DFG found, among other things, that Permittee's compliance with the Conditions of Approval of the ITP would fully mitigate impacts to the Covered Species and would not jeopardize the continued existence of the Covered Species.

After execution of the ITP, the Permittee contacted DFG with concerns regarding the required burrow excavation. Condition 8.4 of the ITP required burrow excavation in order to minimize the potential for direct take of Covered Species (mortality). This

Amendment would require burrow excavation only in areas with a higher probability of harboring the Covered Species, based on proximity to potential Covered Species breeding sites. This Amendment also requires an associated increase in the compensatory mitigation with a corresponding increase in management funding as a means to offset the additional take that may occur as a result of excavation occurring in a more limited portion of the Project footprint.

There is also an inconsistency in ITP Condition 8.6 regarding rainfall. The subcategories require an escalation of protection (e.g., limit to construction activities) when there is an increased likelihood that the Covered Species will be active above ground and therefore more at risk by Covered Activities. However, the leading paragraph under Condition 8.6 did not allow for this structure. The Department and Permittee mutually agreed to change the trigger for increased monitoring from a 70 percent chance of precipitation to a 50 percent chance of precipitation.

In a letter dated June 6, 2012, the Permittee applied for the ITP amendment that would make the above changes to the ITP.

This Major Amendment No. 1 (Amendment) makes the following changes to the existing ITP:

First, this Amendment changes the burrow excavation requirement in Condition 8.4 from the entire Project area to the areas closest to the ponds. Upland habitat closest to Covered Species breeding habitat are known to support the highest numbers of Covered Species.

Second, this Amendment removes the contradictory wording in Condition 8.6.

Third, this Amendment changes the percent chance of precipitation in Condition 8.6.1 from 70 percent to 50 percent, which will instigate the increased monitoring at a lower rain threat level.

Fourth, this Amendment modifies Condition 9 by adding 4 acres to the HM lands required as compensation to offset the higher probability of take of Covered Species that may result due to this Amendment's modification to Condition 8.4.

Fifth, this Amendment increases the cost for the Easement acquisition in Condition 9.1.1 by \$63,840.

Sixth, this Amendment increases the Endowment in Condition 9.1.4 by \$38,304.

Seventh, this Amendment increases the Security amount in Condition 10.1 by \$102,144.

AMENDMENT

The ITP is amended as follows (added language in ***bold italics***; deleted language in ~~strikethrough~~):

- 8.4 Any small mammal burrows present within the portion of the Project area **400 meters from the outermost periphery of either Pond 21 or Pond 36 as shown in Figure 4**~~to be disturbed~~, shall be fully excavated by hand by the Designated Biologist(s). The Permittee shall relocate any live Covered Species as per the relocation plan prepared pursuant to Condition of Approval 7.3.
- 8.6 Covered Activities within Covered Species potential upland habitat shall be restricted to periods of low rainfall (less than 1/2 inch precipitation per 24-hour period), ~~time periods with less than a 30 percent chance of rain in a 24-hour period, or dry weather periods.~~ Permittee shall monitor the National Weather Service (NWS) 72-hour forecast for the Project area.
- 8.6.1 If a ~~50~~ **70** percent or greater chance of rainfall is predicted within 24 hours of Project activity, a Designated Biologist shall survey the Project site before construction begins EACH day rain is forecast. If Permittee uses a Designated Monitor to conduct surveys, a Designated Biologist must still be available to capture and relocate any Covered Species discovered during the surveys.

9. Habitat Management Land Acquisition and Restoration:

DFG has determined that permanent protection and perpetual management of compensatory habitat is necessary and required pursuant to the California Endangered Species Act (CESA) to fully mitigate Project-related impacts of the taking on the Covered Species that will result with implementation of the Covered Activities. This determination is based on factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and DFG's estimate of the acreage required to provide for adequate compensation. A mitigation ratio of 2:1 was used for permanent impacts and 0.75:1 for temporary impacts. Compensatory mitigation for permanent impacts is $14.18 \times 2 = 28.36$ acres for upland habitat plus $0.06 \times 2 = 0.12$ acres for aquatic habitat. Compensatory mitigation for temporary impacts is $29.49 \times 0.75 = 22.12$. **To compensate for the potential increased take of Covered Species that may be impacted in unexcavated burrows, Permittee will provide an additional 4 acres bringing the t**~~Total~~ compensatory mitigation required to is $28.36 + 0.12 + 22.12 + 4 = 54.60$ ~~50.6~~.

To meet this requirement, the Permittee shall provide for the permanent protection and management of **54.60** ~~50.6~~ acres of Habitat Management (HM) lands by completing the transfer of fee title to a DFG-approved public agency, or by recording

a conservation easement pursuant to Government Code 65965, and calculating and depositing management funds (Condition 9.3).

The landowner wishes to establish the Conservation Easement for an 80.0 acre block. This would leave a balance of ~~25.40~~ 29.4 acres to be used as Covered Species mitigation for other Caltrans projects pending DFG approval for future project(s) to mitigate at this site.

9.1.1. Conservation Easement acquisition costs for HM lands identified in Condition of Approval 9.2 below, estimated at \$16,000.00/acre for ~~54.60~~ 50.64 acres: ~~\$873,600.00~~ \$809,760.00. Land acquisition costs are estimated using local fair market current value for lands with habitat values meeting mitigation requirements;

9.1.4. Long-term management funding as described in Condition of Approval 9.3 below, estimated at \$9,600.00/acre for ~~54.60~~ 50.64 acres: ~~\$524,160.00~~ \$485,856.00. The long-term management endowment fund is estimated initially for the purpose of providing Security to ensure implementation of HM land management.

10.1. Security Amount. The Security shall be in the amount of ~~\$2,511,210.00~~ **\$2,613,350.00**. This amount is based on the cost estimates identified in Condition of Approval 9.1 above;

Mitigation Monitoring and Reporting Program (MMRP):

The corresponding MMRP Measures 14 (Condition 9.1.1 and 9.1.4), 15 (Condition 10), 41 (Condition 8.4) and 43 (Condition 8.6) shall be amended to reflect the changes above.

Details from Condition 9 need to be added to the MMRP and will be inserted as Measure 14. This will cause the above referenced Measures to change as follows: the current 14 will become 15, the current 15 will become 16, the current 41 will become 42, and the current 43 will become 44. Other than the numbering none of the other MMRP Measures will change.

All terms and conditions of the ITP and MMRP that are not expressly amended herein remain in effect and must be implemented and adhered to by the Permittee.

FINDINGS

Issuance of this Amendment will increase the amount of take of the Covered Species compared to the Project as originally approved; however, by protection of additional compensation habitat which will be enhanced in a way that will replace the additional loss of Covered Species, it is not expected that this Amendment will increase Project

impacts on the Covered Species (i.e., "impacts of taking" as used in Fish and Game Code Section 2081, subd. (b)(2)).

Discussion: This Amendment makes seven specific changes to the ITP as originally issued. The first change reduces the number of acres within the Project Area where burrows must be hand excavated. The second change clarifies the language regarding rainfall and increases the stringency of the measure. All the remaining measures pertain to the increase in the amount of compensation necessary to offset the higher number of Covered Species that may be killed or injured by Covered Activities because fewer burrows potentially supporting the Covered Species will be excavated. This Amendment will not increase other Project impacts on these species because, in all other respects, the Project Description and Covered Activities authorized by the ITP remain unchanged. The number of acres of habitat that will be lost as a result of the Project will remain the same.

DFG has determined that changes to Conditions of Approval will not substantially increase the amount of take or the severity of other impacts of the taking on the Covered Species. Given the circumstances of this Project, DFG believes that the changes to the Project or Conditions of the ITP described in this Amendment, including the reduction in the extent of burrows that will be hand excavated will not significantly increase impacts to the Covered Species.

Issuance of this Amendment does not affect DFG's previous determination that issuance of the ITP meets and is otherwise consistent with the permitting criteria set forth in Fish and Game Code section 2081, subdivisions (b) and (c).

Discussion: DFG determined in February 2012 that the Project, as approved, met the standards for issuance of an ITP under CESA. This determination included findings that, among other things, the impacts of the taking would be minimized and fully mitigated and that the Project would not jeopardize the continued existence of the Covered Species. Those findings are unchanged with respect to this Amendment because the Project and ITP as amended will increase the compensation in proportion to the decrease in minimization so that the fully mitigate standard is still met. Permittee's continued adherence to and implementation of the avoidance and minimization measures set forth in the ITP's Conditions of Approval and the Amended MMRP will minimize and fully mitigate impacts of the taking on the Covered Species.

None of the factors that would trigger the need for subsequent or supplemental environmental analysis of the Project under Public Resources Code section 21166 or California Code of Regulations, title 4, sections 15162 and 15163, exist as a result of this Amendment.

Discussion: DFG issued the ITP in April 2012 as a responsible agency under the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.) after, among other things, considering the Mitigated Negative Declaration adopted by Caltrans as the lead agency for the Project. As explained in the findings below, DFG finds for purposes of CESA that this Amendment is a major change to the original ITP. DFG finds for the same reasons under CEQA that approval of the Amendment will not result in and does not have the potential to create any new significant or substantially more severe environmental effects than previously analyzed and disclosed by Caltrans during its lead agency review of the Project, particularly with respect to the impacts authorized by DFG pursuant to the ITP as amended. As a result DFG finds that no additional subsequent or supplemental environmental review is required by CEQA as part of DFG's approval of this Amendment.

DFG finds that this Amendment is a Major Amendment, as defined in California Code of Regulations, title 14, section 783.6, subdivision (c)(5).

Discussion: This Amendment does not change the Project footprint or increase the area of impact. The decreased area in which burrows must be excavated will not significantly increase the amount of take and the associated increase in take will be offset by an increase in compensatory mitigation. These changes to the ITP will not: (1) significantly increase the level of take or other Project impacts on Covered Species previously analyzed and authorized by the ITP, (2) affect Permittee's substantive mitigation obligations under the ITP, (3) require further environmental review under CEQA, or (4) increase temporal impacts on the Covered Species. Therefore, this Amendment will not significantly modify the scope or nature of the permitted Project or activity, or the minimization, mitigation, or monitoring measures in the ITP. DFG has determined that the change to the ITP constitutes a Major Amendment as defined in California Code of Regulations, title 14, section 783.6, subdivision (c)(5).

An amended MMRP has been prepared and is attached.

The authorization provided by this Amendment is not valid until Permittee signs and dates the acknowledgement below, and returns one of the duplicate originals of this Amendment by registered first class mail to DFG at:

Department of Fish and Game
Habitat Conservation Planning Branch
Attention: CESA Permitting Program
1416 Ninth Street, Suite 1260
Sacramento, California 95814

Major Amendment No. 1
Incidental Take Permit 2081-2011-064-04
CALIFORNIA DEPARTMENT OF TRANSPORTATION
San Juan Road Interchange

APPROVED BY THE CALIFORNIA DEPARTMENT OF FISH AND GAME

on 7.5.12



Jeffrey R. Single, Ph.D.
Regional Manager
CENTRAL REGION

ACKNOWLEDGMENT

The undersigned: (1) warrants that he or she is acting as a duly authorized representative of the Permittee, (2) acknowledges receipt of the original ITP and this Amendment, and (3) agrees on behalf of the Permittee to comply with all terms and conditions of the ITP as amended.

By: Chuck Cesena

Date: 7/10/12

Printed Name: Chuck Cesena

Title: Senior Environmental
Planner

Attachment 1

**CALIFORNIA DEPARTMENT OF FISH AND GAME
MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)
CALIFORNIA ENDANGERED SPECIES ACT**

INCIDENTAL TAKE PERMIT NO. 2081-2011-064-04-A1

PERMITTEE: California Department of Transportation (Caltrans)

PROJECT: San Juan Road Interchange

PURPOSE OF THE MMRP

The purpose of the MMRP is to ensure that the impact minimization and mitigation measures required by the Department of Fish and Game (DFG) for the above-referenced Project are properly implemented, and thereby to ensure compliance with section 2081(b) of the Fish and Game Code and section 21081.6 of the Public Resources Code. A table summarizing the mitigation measures required by DFG is attached. This table is a tool for use in monitoring and reporting on implementation of mitigation measures, but the descriptions in the table do not supersede the mitigation measures set forth in the California Incidental Take Permit (ITP) and in attachments to the ITP, and the omission of a permit requirement from the attached table does not relieve the Permittee of the obligation to ensure the requirement is performed.

OBLIGATIONS OF PERMITTEE

Mitigation measures must be implemented within the time periods indicated in the table that appears below. Permittee has the primary responsibility for monitoring compliance of all mitigation measures and for reporting to DFG on the progress in implementing those measures. These monitoring and reporting requirements are set forth in the ITP itself and are summarized at the front of the attached table.

VERIFICATION OF COMPLIANCE, EFFECTIVENESS

DFG may, at its sole discretion, verify compliance with any mitigation measure or independently assess the effectiveness of any mitigation measure.

TABLE OF MITIGATION MEASURES

The following items are identified for each mitigation measure: Mitigation Measure, Source, Implementation Schedule, Responsible Party, and Status/Date/Initials. The Mitigation Measure column summarizes the mitigation requirements of the ITP. The Source column identifies the ITP condition that sets forth the mitigation measure. The Implementation Schedule column shows the date or phase when each mitigation measure will be implemented. The Responsible Party column identifies the person or agency that is primarily responsible for implementing the mitigation measure. The Status/Date/Initials column shall be completed by the Permittee during preparation of each Status Report and the Final Mitigation Report, and must identify the implementation status of each mitigation measure, the date that status was determined, and the initials of the person determining the status.

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
BEFORE DISTURBING SOIL OR VEGETATION					
1	6.1. Designated Representative. Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with DFG and overseeing compliance with the ITP. Permittee shall notify DFG in writing before starting Covered Activities of the Designated Representative's name, business address, and contact information, and shall notify DFG in writing if a substitute Designated Representative is selected or identified at any time during the term of the ITP.	ITP Condition # 6.1	Before commencing ground- or vegetation-disturbing activities and Entire Project	Permittee	
2	6.2. Designated Biologist. Permittee shall submit to DFG in writing the name, qualifications, business address, and contact information of a Designated Biologist before starting Covered Activities. Permittee shall ensure that the Designated Biologist is knowledgeable and experienced in the biology, natural history, collecting and handling of the Covered Species. The Designated Biologist must have a valid California Scientific Collecting Permit (SCP) that includes the Covered Species. The Designated Biologist shall be responsible for monitoring Covered Activities to help minimize and fully mitigate or avoid the incidental take of individual Covered Species and to minimize disturbance of Covered Species' habitat. Permittee shall obtain DFG approval of the Designated Biologist in writing before starting Covered Activities, and shall also obtain approval in advance in writing if the Designated Biologist must be changed. The Designated Biologist(s) may be assisted by approved biologists that do not have an SCP; these biologists shall be identified as Designated Monitors.	ITP Condition # 6.2	Before commencing ground- or vegetation-disturbing activities	Permittee	
3	6.4. Education Program. Permittee shall conduct an education program for all persons employed or otherwise working in the Project Area before performing any work. The program shall consist of a presentation from the Designated Biologist that includes a discussion of the biology and general behavior of the Covered Species, information about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and Project-specific protective measures described in the ITP. Permittee shall provide interpretation for non-English speaking workers, and the same instruction shall be provided for any new workers before their performing work in the Project Area. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. Upon completion of the program, employees shall sign a form stating they attended the program and understand all protection measures. This training shall be repeated at least once annually for long-term and/or permanent employees that will be conducting work in the Project Area.	ITP Condition # 6.4	Before commencing ground- or vegetation-disturbing activities and Entire Project	Permittee	
4	6.6. Trash Abatement. Permittee shall initiate a trash abatement program before starting Covered Activities and shall continue the program for the duration of the Project. Permittee shall ensure that trash and food items are contained in animal-proof containers and removed at least once a week to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.	ITP Condition # 6.6	Before commencing ground- or vegetation-disturbing activities and Entire Project	Permittee	
5	6.7. Dust Control. Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist. Permittee shall keep the amount of water used to the minimum amount needed, and shall not allow water to form puddles.	ITP Condition # 6.7	Before commencing ground- or vegetation-disturbing activities and Entire Project	Permittee	

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
6	6.8. Erosion Control Materials. Permittee shall prohibit use of erosion control materials potentially harmful to Covered Species and other species, such as mono-filament netting (erosion control matting) or similar material, in potential Covered Species' habitat.	ITP Condition # 6.8	Before commencing ground- or vegetation-disturbing activities and Entire Project	Permittee	
7	6.9. Firearms and Dogs. Permittee shall prohibit firearms and domestic dogs from the Project Area and site access routes during Covered Activities, except those in the possession of authorized security personnel or local, state, or federal law enforcement officials.	ITP Condition # 6.9	Before commencing ground- or vegetation-disturbing activities and Entire Project	Permittee	
8	6.10. Delineation of Property Area. Before starting Covered Activities Permittee shall clearly delineate the boundaries of the Project Area with fencing, stakes or flags. Permittee shall restrict all Covered Activities to within the fenced, staked or flagged areas. Permittee shall maintain all fencing, stakes and flags until the completion of Covered Activities.	ITP Condition # 6.10	Before commencing ground- or vegetation-disturbing activities and Entire Project	Permittee	
9	6.11. Delineation of Habitat. Permittee shall clearly delineate habitat of the Covered Species within the Project Area with posted signs, posting stakes, flags, and/or rope or cord, and place fencing as necessary to minimize the disturbance of Covered Species' habitat.	ITP Condition # 6.11	Before commencing ground- or vegetation-disturbing activities and Entire Project	Permittee	
10	6.12. Project Access. Project-related personnel shall access the Project Area using existing routes, and shall not cross Covered Species' habitat outside of or en route to the Project Area. Permittee shall restrict Project-related vehicle traffic to established roads, staging, and parking areas. If Permittee determines construction of routes for travel are necessary outside of the Project Area, the Designated Representative shall contact DFG for written approval before carrying out such an activity. DFG may require an amendment to the ITP if additional take of Covered Species may result from Project modification.	ITP Condition # 6.12	Before commencing ground- or vegetation-disturbing activities and Entire Project	Permittee	
11	6.13. Staging Areas. Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the Project Area using, to the extent possible, previously disturbed areas. Additionally, Permittee shall not use or cross Covered Species' habitat outside of the marked Project Area unless provided for as described in Condition of Approval 6.12 of the ITP.	ITP Condition # 6.13	Before commencing ground- or vegetation-disturbing activities and Entire Project	Permittee	
12	7.1. Notification Before Commencement. The Designated Representative shall notify DFG 14 calendar days before starting Covered Activities and shall document compliance with all pre-Project Conditions of Approval before starting Covered Activities.	ITP Condition # 7.1	Before commencing ground- or vegetation-disturbing activities	Permittee	
13	7.3. California Tiger Salamander Relocation Plan. The Designated Biologist shall prepare a California tiger salamander relocation plan and submit it to DFG for approval at least 30 days prior to the beginning of Covered Activities occurring within 1.3 miles of known and/or potential California tiger salamander breeding pools. Covered Activities within these areas may not proceed until DFG approves the relocation plan in writing.	ITP Condition # 7.3	Before commencing ground- or vegetation-disturbing activities	Permittee	
14	A mitigation ratio of 2:1 was used for permanent impacts and 0.75:1 for temporary impacts. Compensatory mitigation for permanent impacts is 14.18 x 2 = 28.36 acres for upland habitat plus 0.06 x 2 = 0.12 acres for aquatic habitat. Compensatory mitigation for temporary impacts is 29.49 x 0.75 = 22.12. To compensate for the potential loss of CTS that may be trapped in unexcavated burrows Caltrans will provide an additional 4 acres bringing the total compensatory mitigation required to 28.36 + 0.12 + 22.12 + 4 = 54.60.	ITP Condition # 9	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
15	<p>9.1. Cost Estimates. DFG has estimated the cost of acquisition, protection, and perpetual management of the HM lands and restoration of temporarily disturbed habitat as follows:</p> <p>9.1.1. Conservation Easement acquisition estimated at \$873,600.00.</p> <p>9.1.2. Start-up costs for HM lands, including enhancement estimated at \$80,976.00;</p> <p>9.1.3. Interim management estimated at \$40,488.00;</p> <p>9.1.4. Long-term management endowment estimated at \$524,160.00.</p> <p>9.1.5. Related transaction fees estimated at \$3,000.00.</p> <p>9.1.6. Restoration of on-site temporary effects estimated at \$1,091,130.00.</p>	ITP Condition # 9.1	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
16	<p>10. Performance Security</p> <p>The Permittee may proceed with Covered Activities only after the Permittee has ensured funding (Security) to complete any activity required by Condition of Approval 9 that has not been completed before Covered Activities begin. Permittee shall provide Security as follows:</p> <p>10.1. Security Amount. The Security shall be in the amount of \$2,613,350.00. This amount is based on the cost estimates identified in Condition of Approval 9.1 above;</p> <p>10.2. Security Form. The Security shall be in the form of a funding assurance letter signed by the District Deputy Directors of Project Management and Environmental Planning and Engineering, or another form of Security approved in advance in writing by DFG's Office of the General Counsel, or another mechanism approved in advance in writing by DFG's Office of the General Counsel.</p> <p>10.3. Security Timeline. The Security shall be provided to DFG before Covered Activities begin or within 30 days after the effective date of the ITP, whichever occurs first;</p> <p>10.4. Security Holder. The Security shall be held by DFG or in a manner approved in advance in writing by DFG.</p> <p>10.5. Security Transmittal. If DFG holds the Security, Permittee shall transmit it to DFG with a completed Mitigation Payment Transmittal Form (see Attachment 4) or by way of an approved instrument such as escrow, irrevocable letter of credit, or other.</p> <p>10.6. Security Drawing. The Security shall allow DFG to draw on the principal sum if DFG in its sole discretion determines that the Permittee has failed to comply with the Conditions of Approval of the ITP.</p> <p>10.7. Security Release. The Security (or any portion of the Security then remaining) shall be released to the Permittee after all secured requirements have been met as evidenced by:</p> <ul style="list-style-type: none"> • Timely submission of all required reports; • An on-site inspection by DFG; and • Written approval from DFG. 	ITP Condition # 10	Before commencing ground- or vegetation-disturbing activities If Mitigation can not be completed before work is scheduled to begin	Permittee	

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
17	9.2.1. Fee Title/Conservation Easement. Transfer fee title to the HM lands to DFG pursuant to terms approved by DFG. Alternatively, DFG, in its sole discretion, may authorize a special district, non-profit organization, for-profit entity, person, or other entity to hold title to the property provided that the district, organization, entity, or person meets the requirements of Government Code section 65965, et seq., as amended. If DFG does not hold fee title to the HM lands, DFG shall act as grantee for a conservation easement over the HM lands or shall, in its sole discretion, approve a non-profit entity, public agency, or Native American tribe to act as grantee for a conservation easement over the HM lands provided that the entity, agency, or tribe meets the requirements of Civil Code section 815.3. If DFG does not hold the conservation easement, DFG shall be named third-party beneficiary. The Permittee shall obtain DFG approval of any conservation easement before its recordation;	ITP Condition # 9.2.1	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
18	9.2.2. HM Lands Approval. DFG has already granted approval for Permittee to initiate negotiations with the Packards for recordation of a conservation easement on a portion of their property. If this falls through and other options must be pursued, then Permittee shall obtain DFG approval of the HM lands before acquisition and/or transfer of the land by submitting, at least three months before acquisition and/or transfer of the HM lands, a formal Proposed Lands for Acquisition Form (see Attachment 3B) identifying the land to be purchased or property interest conveyed to an approved entity as mitigation for the Project's impacts on Covered Species;	ITP Condition #9.2.2	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
19	9.2.3. HM Lands Documentation. Provide a recent preliminary title report, initial hazardous materials survey report, and other necessary documents (see Attachment 3A). All documents conveying the HM lands and all conditions of title are subject to the approval of DFG, and if applicable, the Wildlife Conservation Board and the Department of General Services;	ITP Conditions # 9.2.3	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
20	9.2.4. Land Manager. Designate an interim and long-term land manager approved by DFG. The land manager may be the conservation easement grantee, landowner, or other party. Documents related to land management shall identify the land manager. Permittee shall notify DFG of any subsequent changes in the land manager within 30 days of the change. If DFG will hold fee title to the mitigation land, DFG will also act as long-term land manager unless otherwise specified.	ITP Conditions # 9.2.4	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
21	9.2.5. Start-up Activities. Provide for the implementation of start-up activities, including the initial site protection and enhancement of HM lands, once the HM lands have been approved by DFG. Start-up activities include, at a minimum: (1) preparing a final management plan for DFG approval (see http://www.dfg.ca.gov/haboon/conplan/mitbank/); (2) conducting a baseline biological assessment and land survey report within four months of recording or transfer; (3) developing and transferring Geographic Information Systems (GIS) data if applicable; (4) establishing initial fencing; (5) conducting litter removal; (6) conducting initial habitat restoration or enhancement, if applicable; and (7) installing signage;	ITP Conditions # 9.2.5	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
22	<p>9.2.6. Interim Management (Initial and Capital). Provide for the interim management of the HM lands. The Permittee shall ensure that the interim land manager implements the interim management of the HM Lands as described in the final management plan and conservation easement approved by DFG. The interim management period shall be a minimum of three years from the date of HM land acquisition and protection and full funding of the Endowment and includes expected management following start-up activities. Interim management period activities described in the final management plan shall include fence repair, continuing trash removal, site monitoring, and vegetation and invasive species management. Permittee shall either (1) provide a security to DFG for the minimum of three years of interim management that the land owner, Permittee, or land manager agrees to manage and pay for at their own expense, (2) establish an escrow account with written instructions approved in advance in writing by DFG to pay the land manager annually in advance, or (3) establish a short-term enhancement account with DFG for annual payment to the land manager.</p>	ITP Conditions # 9.2.6	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
23	<p>9.3. Endowment Fund. If the Permittee will permanently protect and perpetually manage compensatory habitat as described in Condition of Approval 9.2, Permittee shall ensure that the HM lands are perpetually managed, maintained, and monitored by the long-term land manager as described in the final management plan and conservation easement approved by DFG. After obtaining DFG approval of the HM lands, Permittee shall provide long-term management funding for the in perpetuity management of the HM lands by establishing a long term management fund (Endowment Fund) prior to permit expiration. The Endowment Fund is a sum of money, held in a DFG-authorized fund that provides funds for the perpetual management, maintenance, monitoring, and other activities on the HM lands consistent with the management plan(s) required by Condition of Approval 9.2.5. Endowment Fund, as used in the ITP, shall refer to the endowment deposit and all interest, dividends, other earnings, additions and appreciation thereon.</p> <p>After the interim management period, Permittee shall ensure that the designated long-term land manager implements the management and monitoring of the HM lands according to the final management plan. The long term land manager shall be obligated to manage and monitor the HM lands in perpetuity to preserve their conservation values in accordance with the ITP, the conservation easement, and the final management plan. Such activities shall be funded through the Endowment Fund.</p>	ITP Conditions # 9.3	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
24	<p>9.3.1. Identify an Endowment Fund Manager. The Endowment Fund shall be held by the Endowment Fund Manager, which shall be either DFG or an entity qualified pursuant to Government Code section 65965, et seq., as amended, and designated in writing by DFG in its sole discretion. DFG shall designate the Endowment Fund Manager within 180 days of the effective date of the ITP. If Permittee seeks to transfer the funds for the Endowment Fund prior to DFG's designation of an Endowment Fund Manager, Permittee shall transfer the funds to an escrow account (Endowment Escrow Account) pursuant to written escrow instructions to be approved in advance in writing by DFG. All interest, dividends, and other earnings, additions, and appreciation on the Endowment Fund accrued while it is held in the Endowment Escrow Account shall be added to the Endowment Fund and transferred to the Endowment Fund Manager once designated by DFG;</p>	ITP Conditions # 9.3.1	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
25	<p>9.3.2. Calculate the Endowment Funds Deposit. After obtaining DFG approval of the HM lands, long-term management plan, and Endowment Fund Manager, Permittee shall prepare a Property Analysis Record (PAR) to calculate the amount of funding necessary to ensure the long-term management of the HM lands (Endowment Deposit Amount). The Permittee shall submit to DFG for review and approval the results of the PAR before transferring funds to the Endowment Escrow Account or the Endowment Fund Manager.</p>	ITP Conditions # 9.3.2	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
26	9.3.2.1. Capitalization Rate and Fees. Permittee shall obtain the capitalization rate from the selected Endowment Fund Manager for use in calculating the PAR and adjust for any additional administrative, periodic, or annual fees. If the funds for the Endowment Fund will be placed in an Endowment Escrow Account, the capitalization rate and PAR shall be calculated to take account of the reasonably anticipated rate of return for the funds while held in escrow.	ITP Conditions # 9.3.2.1	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
27	9.3.2.2. Endowment Buffers/Assumptions. Permittee shall include in PAR assumptions the following buffers for endowment establishment and use that will substantially ensure long-term viability and security of the Endowment Fund: 10 Percent Contingency. A 10 percent contingency shall be added to each endowment calculation to hedge against underestimation of the fund, unanticipated expenditures, inflation, or catastrophic events. Three Years Delayed Spending. The endowment shall be established assuming spending will not occur for the first three years after full funding. Non-annualized Expenses. For all large capital expenses to occur periodically but not annually such as fence replacement or well replacement, payments shall be withheld from the annual disbursement until the year of anticipated need or upon request to Endowment Fund Manager and DFG.	ITP Conditions # 9.3.2.2	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
28	9.3.3. Transfer Long-term Endowment Funds. Permittee shall transfer the long-term endowment funds to the Endowment Escrow Account or the Endowment Fund Manager upon DFG approval of the Endowment Deposit Amount identified above. The approved Endowment Fund Manager may pool the Endowment Fund with other endowments for the operation, management, and protection of HM lands for local populations of the Covered Species but shall maintain separate accounting for each Endowment Fund.	ITP Conditions # 9.3.3	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
29	9.4. Reimburse DFG. Permittee shall reimburse DFG for all reasonable expenses incurred by DFG such as transaction fees, account set-up fees, administrative fees, title and documentation review and related title transactions, expenses incurred from other state agency reviews, and overhead related to transfer of HM Lands to DFG.	ITP Conditions # 9.4	Before commencing ground- or vegetation-disturbing activities or within 18 months of issuance of the ITP if Security is provided	Permittee	
DURING CONSTRUCTION					
30	6.3. Designated Biologist Authority. To ensure compliance with the Conditions of Approval of the ITP, the Designated Biologist shall have authority to immediately stop any activity that is not in compliance with the ITP, and/or to order any reasonable measure to avoid the unauthorized take of an individual of the Covered Species.	ITP Condition # 6.3	Entire Project	Permittee	
31	6.5. Construction Monitoring Notebook. The Designated Biologist shall maintain a construction-monitoring notebook on-site throughout the construction period which shall include a copy of the ITP with attachments and a list of signatures of all personnel who have successfully completed the education program. Permittee shall ensure a copy of the construction-monitoring notebook is available for review at the Project site upon request by DFG.	ITP Condition # 6.5	Entire Project	Permittee	

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
32	7.2. Notification of Non-compliance. The Designated Representative shall immediately notify DFG in writing if it determines that the Permittee is not in compliance with any Condition of Approval of the ITP, including but not limited to any actual or anticipated failure to implement measures within the time periods indicated in the ITP and/or this MMRP. The Designated Representative shall report any non-compliance with the ITP to DFG within 24 hours.	ITP Condition # 7.2	Entire Project	Permittee	
33	7.4. Compliance Monitoring. The Designated Biologist shall be on-site daily when Covered Activities occur. The Designated Biologist shall conduct compliance inspections to (1) minimize incidental take of the Covered Species; (2) prevent unlawful take of species; (3) check for compliance with all measures of the ITP; (4) check all exclusion zones; and (5) ensure that signs, stakes, and fencing are intact, and that Covered Activities are only occurring in the Project Area. The Designated Representative or Designated Biologist shall prepare daily written observation and inspection records summarizing: oversight activities and compliance inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by the ITP. The Designated Biologist shall conduct compliance inspections a minimum of once per week during periods of inactivity and after clearing, grubbing, and grading are completed.	ITP Condition # 7.4	Entire Project	Permittee	
34	7.5. Monthly Compliance Report. The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 7.4 into a Monthly Compliance Report and submit it to DFG along with notes showing the current implementation status of each mitigation measure. Monthly Compliance Reports shall be submitted via e-mail to DFG's Regional Representative. At the time of the ITP's approval, the DFG Regional Representative is Laura Peterson-Diaz (lpdiaz@dfg.ca.gov). DFG may at any time increase the timing and number of compliance inspections and reports required under this provision depending upon the results of previous compliance inspections. If DFG determines the reporting schedule must be changed, DFG will notify Permittee in writing of the new reporting schedule.	ITP Condition # 7.5	Entire Project	Permittee	
35	7.6. Annual Status Report. Permittee shall provide DFG with an Annual Status Report (ASR) no later than January 31 of every year beginning with issuance of the ITP and continuing until DFG accepts the Final Mitigation Report identified below. Each ASR shall include, at a minimum: (1) a summary of all Monthly Compliance Reports for that year identified in Condition of Approval 7.5; (2) a general description of the status of the Project Area and Covered Activities, including actual or projected completion dates, if known; (3) a copy of the table in this MMRP with notes showing the current implementation status of each mitigation measure; (4) an assessment of the effectiveness of each completed or partially completed mitigation measure in avoiding, minimizing and mitigating Project impacts; (5) all available information about Project-related incidental take of the Covered Species; (6) an accounting of the number of acres subject to both temporary and permanent disturbance, both for the prior calendar year, and a total since ITP issuance; and (7) information about other Project impacts on the Covered Species.	ITP Condition # 7.6	Entire Project	Permittee	
36	7.7. CNDDDB Observations. The Designated Biologist shall submit all observations of Covered Species to DFG's California Natural Diversity Database (CNDDDB) within 60 calendar days of the observation and the Designated Biologist shall include copies of the submitted forms with the next Monthly Compliance Report or ASR, whichever is submitted first relative to the observation.	ITP Condition # 7.7	Entire Project	Permittee	

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
37	6.14. Hazardous Waste. Permittee shall immediately stop and following pertinent state and federal statutes and regulations arrange for repair and clean up by qualified individuals of any fuel or hazardous waste leaks or spills at the time of occurrence, or as soon as it is safe to do so. Permittee shall exclude the storage and handling of hazardous materials from the Project Area and shall properly contain and dispose of any unused or leftover hazardous products off-site.	ITP Condition # 6.14	Entire Project	Permittee	
38	6.15. DFG Access. Permittee shall provide DFG staff with reasonable access to the Project and mitigation lands under Permittee control, and shall otherwise fully cooperate with DFG efforts to verify compliance with or effectiveness of mitigation measures set forth in the ITP.	ITP Condition #6.15	Entire Project	Permittee	
39	8.1. A Designated Biologist(s) shall be on-site daily during all initial surface-disturbing activities to minimize potential impacts to the Covered Species; to check for compliance with all required measures; to check all exclusion zones; and to ensure that signs, stakes, and fencing are intact, and that human activities are restricted to outside of these protective zones. The Designated Biologist(s) shall conduct compliance inspections a minimum of once per week during periods of inactivity and after clearing, grubbing, and grading are completed. The Designated Biologist(s) shall prepare written records summarizing: oversight activities and compliance inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by the ITP.	ITP Condition # 8.1	Entire Project	Permittee	
40	8.2. If any Covered Species are found in the Project Area during construction, all work that could potentially harm the Covered Species shall stop immediately until the Designated Biologist(s) can relocate the Covered Species to an active rodent burrow system. Only approved Designated Biologist(s) with the state SCP and the appropriate federal permit for amphibians are authorized to capture and handle Covered Species. The Designated Biologist(s) shall identify relocation areas prior to the start of construction in accordance with the approved Relocation Plan.	ITP Condition # 8.2	Entire Project	Permittee	
41	8.3. All Covered Species sightings confirmed by the Designated Biologist(s) shall include the following documented information: the date, time, and location of each occurrence using Global Positioning System (GPS) technology, the name of the party that actually identified the animal, circumstances of the incident, the general condition and health of each individual, any diagnostic markings, sex, age (juvenile or adult), and actions undertaken and habitat description. Permittee shall submit this information to the CNDDB. This information should also be included in the Monthly Compliance Report.	ITP Condition # 8.3	Entire Project	Permittee	
42	8.4. Any small mammal burrows present within the portion of the Project area 400 meters from the outermost periphery of either Pond 21 or Pond 36 as shown in Figure 4, shall be fully excavated by hand by the Designated Biologist(s). The Permittee shall relocate any live Covered Species as per the relocation plan prepared pursuant to Condition of Approval 7.3.	ITP Condition # 8.4	Entire Project	Permittee	
43	8.5. Fill or other ground-disturbing activities within or immediately adjacent to the Covered Species' potential breeding habitat within the permanent impact area, consisting of 0.057 acres located on the east side of Balentree Lane just south of the tributary to the Elkhorn Slough, shall be confined to the dry season from June 15 to October 31.	ITP Condition # 8.5	Entire Project	Permittee	

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
44	<p>8.6. Covered Activities within Covered Species potential upland habitat shall be restricted to periods of low rainfall (less than 1/2 inch precipitation per 24-hour period). Permittee shall monitor the National Weather Service (NWS) 72-hour forecast for the Project area.</p> <p>8.6.1. If a 50 percent or greater chance of rainfall is predicted within 24 hours of Project activity, Project site shall be surveyed before construction begins EACH day rain is forecast.</p> <p>8.6.2. If precipitation begins, then a Designated Biologist or Monitor shall be at the Project site for the duration of the rain event in order for work to continue.</p> <p>8.6.3. If rain exceeds 1/2 inch during a 24-hour period, all covered work activities shall cease until it is no longer raining and no further rain is forecast.</p>	ITP Condition # 8.6	Entire Project	Permittee	
45	<p>8.7. All Covered Activities within Covered Species potential upland habitat shall terminate 30 minutes before sunset and shall not resume until 30 minutes after sunrise during the migration/active season from November 1 to June 14. Permittee shall use sunrise and sunset times established by the United States Naval Observatory Astronomical Applications Department for the geographic area where the Project is located. If night work cannot be avoided during this time period, a Designated Biologist shall survey the Project site before construction begins each night. If Permittee uses a Designated Monitor to conduct surveys, a Designated Biologist must still be available to capture and relocate any Covered Species discovered during the surveys.</p>	ITP Condition # 8.7	Entire Project	Permittee	
46	<p>8.8. Permittee shall prohibit all night work within potential Covered Species upland habitat when a 70 percent or greater chance of rainfall is predicted within 24 hours of Project activity, until no further rain is forecast.</p>	ITP Condition # 8.8	Entire Project	Permittee	
47	<p>8.9. Permittee shall place soil stockpiles where soil shall not pass into potential Covered Species breeding pools; nor shall it pass into any other "waters of the state," in accordance with Fish and Game Code 5650. Permittee shall appropriately protect stockpiles to prevent soil erosion.</p>	ITP Condition # 8.9	Entire Project	Permittee	
48	<p>8.10. Within 1.24 miles of known or potential Covered Species breeding sites (including but not limited to the sites shown on Figure 1), Permittee shall not construct roadways with steep curbs, berms, or dikes, which prevent Covered Species from exiting the roadway. If curbs are necessary for safety and/or surface runoff, the Permittee shall design them to allow Covered Species to walk over them. Caltrans' Standard Plan Type E curbs and Type D and Type E dikes are preferred designs and shall be used where possible (refer to The Caltrans' Standard Plan A87, Curbs, Dikes, and Driveways). These rounded or gently sloping structures allow Covered Species to crawl over them. If steep dikes are required, design shall include over-side drains or curb/dike breaks spaced at intervals of 25 feet to allow Covered Species passage.</p>	ITP Condition # 8.10	Entire Project	Permittee	
49	<p>8.11. To ensure that the Designated Biologist(s) do not convey disease between work sites, the fieldwork code of practice developed by the Declining Amphibian Populations Task Force Fieldwork Code of Practice (see Attachment 2) shall be followed at all times. The Designated Biologist(s) may substitute a bleach solution (0.5 to 1.0 cup of bleach to 1.0 gallon of water) for the ethanol solution. Care shall be taken so that all traces of the disinfectant are removed before entering the next aquatic habitat.</p>	ITP Condition # 8.11	Entire Project	Permittee	
50	<p>8.12. Designated Biologists shall inspect all open trenches, auger holes, and other excavations that may trap Covered Species prior to any work in or around them and before they are backfilled. Designated Biologists shall safely remove and relocate any Covered Species they find in accordance with the ITP.</p>	ITP Condition # 8.12	Entire Project	Permittee	

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
51	8.13. Covered Species Injury. If a Covered Species is injured as a result of Project-related activities, the Designated Biologist shall immediately take it to a DFG-approved wildlife rehabilitation or veterinary facility. Permittee shall identify the facility before starting Covered Activities. Permittee shall bear any costs associated with the care or treatment of such injured Covered Species. The Permittee shall notify DFG of the injury to the Covered Species immediately by telephone and e-mail followed by a written incident report as described in Condition of Approval 7.9. Notification shall include the name of the facility where the animal was taken.	ITP Condition # 8.13	Entire Project	Permittee	
POST-CONSTRUCTION					
52	6.16. Refuse Removal. Upon completion of Covered Activities, Permittee shall remove from the Project Area and properly dispose of all temporary fill and construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.	ITP Condition # 6.16	Post-construction	Permittee	
53	9.5. Habitat Restoration. Permittee shall restore on-site the 29.50 acres of Covered Species habitat that will be temporarily disturbed during construction to pre project or better conditions. Within 6 months of issuance of the ITP, the Permittee shall prepare a Vegetation Restoration Plan to facilitate revegetation of the 29.50 acres of temporary construction disturbance on-site, and shall ensure that the Plan is successfully implemented by the contractor. The Plan shall include detailed specifications for restoring all temporarily disturbed areas, such as seed mixes and application methods. The Plan shall also indicate the best time of year for seeding to occur and the dates when regular watering would be required to ensure adequate growth. The Plan shall be implemented the first season appropriate. Described below are the measures and success criteria that must be included in the Vegetation Restoration Plan.	ITP Condition # 9.5	Post-construction	Permittee	
54	9.5.1. Identifying species damaged or removed during Project activities. Native trees and shrubs (e.g., oak, willow, cottonwood, sycamore, etc.) between four to 25-inches diameter at breast height (DBH) shall be replaced in kind at a ratio of 3:1, and trees greater than 25-inches DBH shall be replaced at a ratio of 10:1.	ITP Condition # 9.5.1	Post-construction	Permittee	
55	9.5.2. Describing when, where, and how replacement shrubs and trees will be planted. "When" shall be the first suitable season after construction is complete. "Where" shall include a planting layout design with sufficient space appropriate for each species. "How" shall include measures to be implemented (i.e., irrigation methods, weed management, maintenance and replanting if necessary) to ensure a minimum of 70 percent survivorship for three (3) years, after the last planting, (i.e., if up to 30 percent of any of the species are at risk of not surviving and repeated plantings are necessary, then monitoring, maintenance, and annual reporting shall continue for the subsequent three (3) years).	ITP Condition # 9.5.2	Post-construction	Permittee	
56	9.5.3. For seeding and mulching exposed slopes, the seed blend shall include a minimum of three (3) locally native grass species. Locally native wildflower and/or shrub seeds may also be included in the mix. One or two sterile non-native perennial grass species may be added to the seed mix provided that amount does not exceed 25 percent of the total seed mix by count. Seeding shall be completed as soon as possible, but no later than November 15 of the year construction ends.	ITP Condition # 9.5.3	Post-construction	Permittee	
57	9.5.4. At the discretion of the Department, all exposed areas where seeding is considered unsuccessful after 90 days shall receive appropriate soil preparation and a second application of seeding, straw, or mulch as soon as is practical on a date mutually agreed upon.	ITP Condition #9.5.4	Post-construction	Permittee	

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
58	<p>7.8. Final Mitigation Report. No later than 45 days after completion of all mitigation measures, Permittee shall provide DFG with a Final Mitigation Report. The Designated Biologist shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all Monthly Compliance Reports and all ASRs; (2) a copy of the table in this MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of the ITP's Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on the Covered Species; and (8) any other pertinent information.</p>	ITP Condition # 7.8	Post-construction after completion of mitigation	Permittee	

Memorandum

*Flex your power!
Be energy efficient!*

To: ERNIE PENUNA
Design Engineer, Branch U
Project Development Division

Date: July 13, 2012

File: 05-MON/SBt-101-100.0/0.52
05-SBT-101- 0.0/0.6
05-315801
OH Signs-NB1/SB1

Attn: Ivo Rummler
Design Engineer

From: DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
GEOTECHNICAL SERVICES

Subject: OH Sign Subsurface Investigation

Introduction

This memo summarizes the geotechnical subsurface conditions and anticipated construction characteristics of two overhead (OH) sign locations in Monterey and San Benito Counties on Highway 101 at post miles 101.05 and 0.52 respectively within Location 3 of the San Juan Road Interchange project, shown within location 3 (Attachment 1). Descriptions of both locations, including existing facilities and geology may be found in the Geotechnical Design Report (GDR) provided for the above referenced project in December 2011.

The subsurface investigation was conducted on July 10-11, 2012. A CS2000 drill rig was used to advance 5-inch diameter Hollow Stem Auger (HAS) holes to 40-feet below the surface at each proposed sign location. Standard Penetration Tests (SPT) were conducted at 5-foot intervals, including the bottom of hole to determine relative density of soils encountered. The augers were pulled at 10-foot intervals, and depth of open hole measured, to determine where caving might occur.

Auger hole A-12-001 was advanced at 15' Rt Sta 781+43.57, within 40-feet of the proposed NB1 OH sign location (Attachment 2). Loose SILT with SAND and Poorly Graded SAND occurs in the upper 12-feet. Medium dense to dense Poorly Graded SAND and Silty SAND occur to 40-feet below the surface (Attachment 3). Ground water was encountered at about 25-feet below the surface. The hole caved in to approximately 22-feet below the surface after removing the auger stem at 30-feet. Mostly dense saturated SAND occurs below the water table.

Auger hole A-12-002 was advanced at 29' Rt Sta 822+57.93 at the intersection of the existing Cole Road and SB-101, San Benito County, PM 0,52 (Attachment 2). Cole Road is constructed

on fill at this location, with 1.5:1 embankment slopes vegetated with mature Oak trees along the southern edge of the intersection. Mostly medium dense alternating silty and clayey SAND was encountered to 40-feet. No caving occurred at any interval, and free standing ground water was not observed. Yellowish brown clayey SAND, was however very moist between 32 and 40-feet, with a loose interval of soil encountered at approximately 35-feet. A Well Graded SAND occurred in the final 0.5 feet of the boring, retrieved in the SPT sample.

If you have any questions or comments, please contact Mike Jurasius at (805) 549-3729 or Michael Finegan at (805) 549-3194.



A handwritten signature in cursive script that reads "Mike Jurasius".

MIKE JURASIUS, C.E.G.
Engineering Geologist
Geotechnical Design – North
Branch D

A handwritten signature in cursive script that reads "Michael S. Finegan".

MICHAEL S. FINEGAN, PE
Branch Chief
Geotechnical Design – North
Branch D

LIST OF ATTACHMENTS

Vicinity Map	Attachment 1
Layouts with Boring Locations	Attachment 2
Boring Records	Attachment 3

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-61	TYPICAL CROSS SECTIONS
62	KEY MAP AND LINE INDEX
63-64	PROJECT CONTROL
65-75	LAYOUTS
76-111	PROFILES AND SUPPELEVATION DIAGRAM
112-147	CONSTRUCTION DETAILS
148	EROSION CONTROL LEGEND
149-160	EROSION CONTROL PLAN, DETAILS AND QUANTITIES
161-171	CONTOUR GRADING
172-301	DRAINAGE PLANS, PROFILES, DETAILS AND QUANTITIES
302-313	UTILITY PLAN
314-339	STAGE CONSTRUCTION PLANS
340-380	TRAFFIC HANDLING PLANS AND QUANTITIES
381	CONSTRUCTION AREA SIGNS
382-395	PAVEMENT DETAILING PLANS, DETAILS AND QUANTITIES
396-413	SUMMARY OF QUANTITIES
414-438	SIGN PLANS, DETAILS AND QUANTITIES
439-440	PLANT LIST
441-448	PLANTING PLANS
449-456	IRRIGATION PLANS
457-458	LANDSCAPE DETAILS, SPRINKLER SCHEDULE AND SUMMARY OF QUANTITIES
459-470	ELECTRICAL PLANS
471-477	BELL AND BELL ELECTRICAL PLANS
478-568	REVISED AND NEW STANDARD PLANS

STRUCTURE PLANS

569-605	SAN JUAN ROAD DC B' No. 43-0047
606-629	SOIL NAIL RETAINING WALL No. 1
630-641	SOIL NAIL RETAINING WALL No. 2

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
 STATE HIGHWAY**
 IN MONTEREY AND SAN BENITO COUNTIES
 NEAR PRUNEDALE AT VARIOUS LOCATIONS
 FROM 0.4 MILE SOUTH OF DUNBARTON ROAD (NORTH)
 TO CANNON ROAD



LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	PM	TO COUNTY	PM	DESCRIPTION OF WORK	
(1)	Mon	100.0	To	Mon	100.5	INSTALL LAMINATED WOOD BOX POST SIGN
(2)	Mon	100.1	To	Mon	100.5	INSTALL CONCRETE BARRIER
(3)	Mon	100.9	To	SB1	0.7	CONSTRUCT INTERCHANGE
(4)				SB1	0.8	INSTALL ROADSIDE SIGN
(5)				SB1	0.9	INSTALL ROADSIDE SIGN
(6)				SB1	1.0	INSTALL LAMINATED WOOD BOX POST SIGN
(7)				SB1	1.5	INSTALL LAMINATED WOOD BOX POST SIGN
(8)				SB1	1.6	INSTALL LAMINATED WOOD BOX POST SIGN

Attachment 1

End Work Sta 893+54

April 9, 2012

CONTRACT No. 05-315804
 PROJECT ID 0500000495

ATTACHMENT 2

Layout Sheets with Boring Locations

San Juan Road Interchange

EA 05-315801

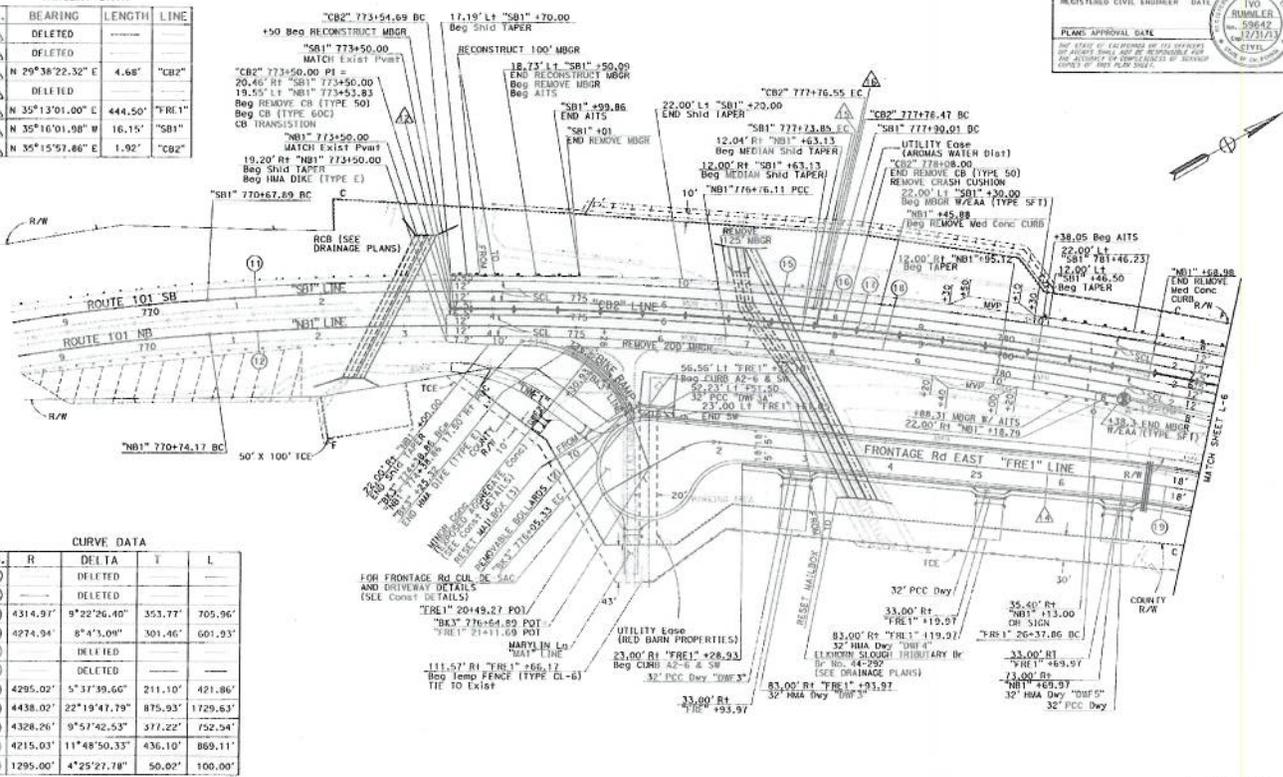
NOTE: FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

TANGENT DATA

NO.	BEARING	LENGTH	LINE
1	DELETED		
2	DELETED		
3	N 29°34'22.32" E	4.68'	"CB2"
4	DELETED		
5	N 35°13'01.00" E	444.50'	"FRE1"
6	N 35°16'01.98" W	16.15'	"SBI"
7	N 35°15'57.86" E	1.92'	"CB2"

CURVE DATA

NO.	R	DELTA	T	L
8	DELETED			
9	DELETED			
10	4314.91'	9°22'26.40"	353.77'	705.96'
11	4274.94'	8°4'3.09"	301.46'	601.93'
12	DELETED			
13	DELETED			
14	DELETED			
15	4295.02'	5°31'39.66"	211.10'	421.86'
16	4438.02'	22°19'41.79"	875.93'	1729.63'
17	4328.26'	9°57'42.53"	377.22'	752.94'
18	4215.03'	11°48'50.33"	436.10'	869.11'
19	1295.00'	4°25'27.78"	50.02'	100.00'



DIST COUNTY ROUTE DIST MILE TOTAL SHEET TOTAL
 05 Mon, SB 101 100.0/101.3 6.7 641
 REGISTERED CIVIL ENGINEER DATE 12-28-11
 IVO NUMBER 50642 (02/21/13)
 CIVIL
 PLM APPROVAL GATE
 THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DISTRICT OFFICE OF THE DISTRICT ENGINEER
 SAN JOSE OFFICE
 CIVIL



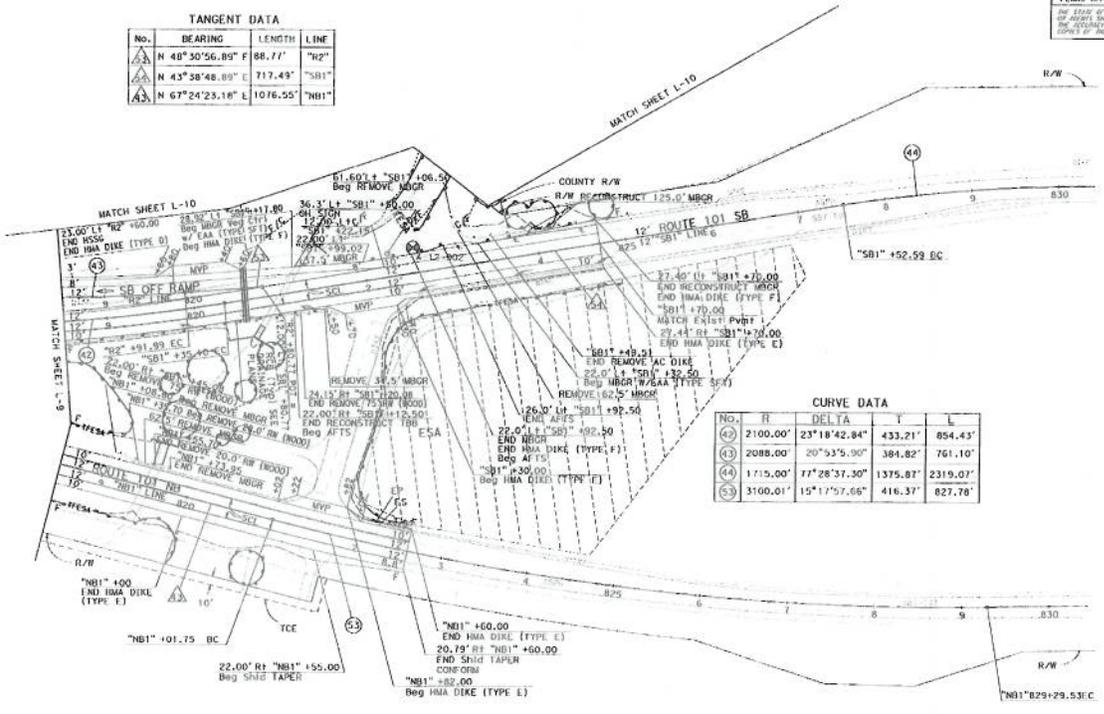
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DISTRICT OFFICE OF THE DISTRICT ENGINEER
 SAN JOSE OFFICE
 CIVIL
 08-12-12 TIME POSTED 2:22:27

NOTE: FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

SHEET	COUNTY	ROUTE	PROJECT TOTAL MILES	SHEET TOTAL SHEETS
05	Mon, SB	101	100.0719133	75 641
IVO RUMMER REGISTERED CIVIL ENGINEER			DATE	DATE
12-28-11 12/31/11			CIVIL 12/31/11	

TANGENT DATA			
No.	BEARING	LENGTH	LINE
1	N 48°30'56.89" F	88.77'	"N2"
2	N 43°38'48.89" E	717.49'	"SB1"
3	N 67°24'23.18" E	1076.55'	"NB1"

CURVE DATA				
No.	R	DELTA	Y	L
42	2100.00'	23°18'42.84"	433.21'	854.43'
43	2088.00'	20°53'5.90"	384.82'	761.10'
44	1715.00'	77°28'37.30"	1375.87'	2319.07'
53	3160.01'	15°17'57.66"	416.37'	827.78'



LAYOUT
SCALE: 1"=50'
(LOCATION 3) L-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 COUNTY OF MONTESELMER
 ROUTE 101 SB
 PROJECT NO. 05000004951
 SHEET NO. 05
 DATE 12/28/11
 IVO RUMMER
 REGISTERED CIVIL ENGINEER
 CIVIL
 12/31/11

ATTACHMENT 3
Log of Test Borings
San Juan Road Interchange
EA 05-315801

LOGGED BY M. Jurasius	BEGIN DATE 7-10-12	COMPLETION DATE 7-10-12	BOREHOLE LOCATION (Lat/Long or North/East and Datum) 2204720.2 ft / 5791314.4 ft	HOLE ID A-12-001
DRILLING CONTRACTOR Caltrans	BOREHOLE LOCATION (Offset, Station, Line) ~15.00' Rt Sta ~781+43.57		SURFACE ELEVATION ~154.62 ft	
DRILLING METHOD Hollow-Stem Auger	DRILL RIG CS 2000 (truck)		BOREHOLE DIAMETER 8 in	
SAMPLER TYPE(S) AND SIZE(S) (ID) SPT	SPT HAMMER TYPE		HAMMER EFFICIENCY, ERI 99%	
BOREHOLE BACKFILL AND COMPLETION Native cuttings w/grout cap	GROUNDWATER READINGS	DURING DRILLING 25.0 ft	AFTER DRILLING (DATE) 25.0 ft on 7-10-12	TOTAL DEPTH OF BORING 41.5 ft

ELEVATION (ft)	DEPTH (ft)	Material Graphics	DESCRIPTION	Sample Location	Sample Number	Blows per 6 in.	Blows per foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
0	0		ASPHALT CONCRETE (4); (FILL).												
152.62	1		SILT with SAND (ML/ML); loose; very dark brown; moist; few fine SAND; (NATIVE).												
150.62	2														
148.62	3														
146.62	4														
144.62	5														
142.62	6				1	8 3 3	6	72							
140.62	7														
138.62	8														
136.62	9														
134.62	10		Poorly graded SAND (SP/SP); loose; yellowish brown; moist; mostly fine SAND; mostly fine SAND ; few medium SAND; (NATIVE).		2	3 3 6	9	100							
132.62	11														
130.62	12		SANDY SILT (ML/ML); medium dense; very dark brown; moist; little fine SAND; (NATIVE).												
128.62	13														
126.62	14		Poorly graded SAND (SP/SP); medium dense; yellowish brown; moist; (NATIVE).		3	5 8 9	17	100							
124.62	15														
122.62	16														
120.62	17														
118.62	18														
116.62	19														
114.62	20				4	6 12 14	26	83							
112.62	21														
110.62	22														
108.62	23														
106.62	24														
104.62	25														

(continued)

5 BR - STANDARD SANJUANRD.GPJ DRAFT CALTRANS LIBRARY OCT 2011 G.L.B. 7/13/12



Department of Transportation
 Division of Engineering Services
 Geotechnical Services
 Office of Geotechnical Design - North

REPORT TITLE BORING RECORD				HOLE ID A-12-001	
DIST. 05	COUNTY MON	ROUTE 101	POSTMILE D100.0/D101.05-315801	PROJECT ID 101.05-315801	
PROJECT OR BRIDGE NAME San Juan Road Interchange					
BRIDGE NUMBER		PREPARED BY		DATE 7-12-12	SHEET 1 of 2

5 BR - STANDARD SANJUANRD.GPJ DRAFT CALTRANS LIBRARY OCT 2011.GLB 7/13/12

ELEVATION (ft)	DEPTH (ft)	Material Graphics	DESCRIPTION	Sample Location	Sample Number	Blows per 6 in.	Blows per foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
128.62	25		Poorly graded SAND (SP/SP) (continued).		5	14	47	56							
	26		SILTY SAND (SM/SM); dense; yellowish brown; wet; mostly fine SAND; little fines; (NATIVE).			23									
	27					24									
126.62	28														
	29														
124.62	30				6	3	4	89							
	31					2									
	32					2									
122.62	33														
	34														
120.62	35														
	36				7	12	50	100							
	37					22									
	38					28									
118.62	39														
	40														
116.62	41				8	6	47	100							
	42		Well-graded SAND with GRAVEL (SW/SW); dense; yellowish brown; wet; trace fine, angular GRAVEL; (NATIVE).			18									
	43		Bottom of borehole at 41.5 ft bgs			29									
	44														
	45		This Boring Record was developed in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010) except as noted on the Soil or Rock Legend or below.												
	46														
	47														
	48														
	49														
	50														
	51														
	52														
	53														
	54														
	55														



Department of Transportation
 Division of Engineering Services
 Geotechnical Services
 Office of Geotechnical Design - North

REPORT TITLE BORING RECORD				HOLE ID A-12-001	
DIST. 05	COUNTY MON	ROUTE 101	POSTMILE D100.0/D101.0	PROJECT ID 1.05-315801	
PROJECT OR BRIDGE NAME San Juan Road Interchange					
BRIDGE NUMBER		PREPARED BY		DATE 7-12-12	SHEET 2 of 2

LOGGED BY M. Jurasius	BEGIN DATE 7-11-12	COMPLETION DATE 7-11-12	BOREHOLE LOCATION (Lat/Long or North/East and Datum)	HOLE ID A-12-002
DRILLING CONTRACTOR Caltrans		BOREHOLE LOCATION (Offset, Station, Line) ~29' Rt Sta ~822+57.93		SURFACE ELEVATION ~202 ft
DRILLING METHOD Hollow-Stem Auger		DRILL RIG CS 2000 (truck)		BOREHOLE DIAMETER 8 in
SAMPLER TYPE(S) AND SIZE(S) (ID) SPT		SPT HAMMER TYPE		HAMMER EFFICIENCY, ERI 99%
BOREHOLE BACKFILL AND COMPLETION Native cuttings w/grout cap		GROUNDWATER READINGS	DURING DRILLING no water	AFTER DRILLING (DATE) nm
				TOTAL DEPTH OF BORING 41.5 ft

ELEVATION (ft)	DEPTH (ft)	Material Graphics	DESCRIPTION	Sample Location	Sample Number	Blows per 6 in.	Blows per foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
	0		ASPHALT CONCRETE (5)												
199.58	1		SILTY SAND with GRAVEL (SM/SM); brown; moist; mostly fine SAND; little nonplastic fines; few fine, angular GRAVEL; (FILL).		1	5	19	44							
	2					10									
	3					9									
197.58	4		SILTY SAND (SM/SM); very dark brown and yellowish brown; moist; mostly fine SAND; few nonplastic fines; little medium SAND; (FILL).												
	5														
195.58	6				2	5	15	100							
	7					6									
	8					9									
193.58	9														
	10														
191.58	11				3	3	11	100							
	12					5									
	13					6									
189.58	14														
	15														
187.58	16				4	5	13	100							
	17					6									
	18					7									
185.58	19														
	20														
181.58	21		CLAYEY SAND (SC/SC); dark brown; moist; few medium plasticity fines.		5	7	18	100							
	22					8									
	23					10									
179.58	24		SILTY SAND (SM/SM); mottled dark brown and dark yellowish brown; moist; little low plasticity fines.												
	25														

(continued)



Department of Transportation
 Division of Engineering Services
 Geotechnical Services
 Office of Geotechnical Design - North

REPORT TITLE BORING RECORD				HOLE ID A-12-002	
DIST. 05	COUNTY MON	ROUTE 101	POSTMILE D100.0/D101	PROJECT ID 1.05-315801	
PROJECT OR BRIDGE NAME San Juan Road Interchange					
BRIDGE NUMBER			PREPARED BY		DATE 7-12-12
					SHEET 1 of 2

ELEVATION (ft)	DEPTH (ft)	Material Graphics	DESCRIPTION	Sample Location	Sample Number	Blows per 6 in.	Blows per foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
175.58	25		SILTY SAND (SM/SM) (continued).		6	6 7 9	16	100							
173.58	28														
171.58	30					7	4 5 7	12	100						
169.58	32			CLAYEY SAND (SC/SC); mottled dark yellowish brown and brown; moist; mostly medium and fine SAND; few high plasticity fines; random 3-6-inch lenses of poorly graded medium SAND; (NATIVE).											
167.58	34														
165.58	36					8	4 3 4	7	100						
163.58	38														
161.58	40				9	2 6 10	16	100							
159.58	42		Bottom of borehole at 41.5 ft bgs												
157.58	44		This Boring Record was developed in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010) except as noted on the Soil or Rock Legend or below.												
155.58	46														
153.58	48														
151.58	50														
149.58	52														
147.58	54														
	55														



Department of Transportation
 Division of Engineering Services
 Geotechnical Services
 Office of Geotechnical Design - North

REPORT TITLE BORING RECORD				HOLE ID A-12-002	
DIST. 05	COUNTY MON	ROUTE 101	POSTMILE D100.0/D101.0	PROJECT ID 1.05-315801	
PROJECT OR BRIDGE NAME San Juan Road Interchange					
BRIDGE NUMBER		PREPARED BY		DATE 7-12-12	SHEET 2 of 2