

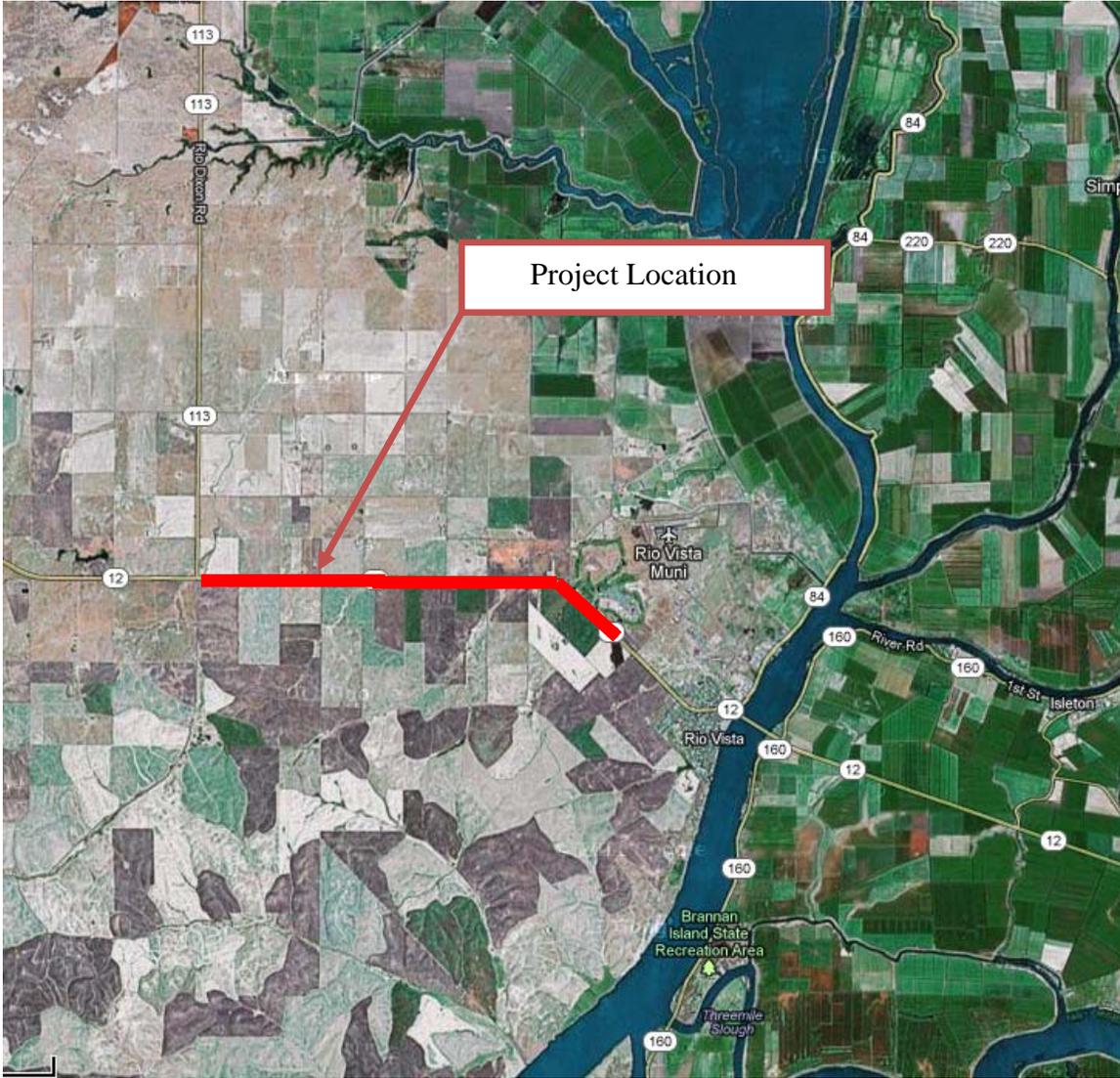
STORM WATER INFORMATION HANDOUT
CONTRACT NO. 04-2A620
04-SOL-12-PM 20.6/23.7
Shoulder Widening Vertical Curve Correction
Overlay and Three Left Turn Pockets

California Department of Transportation
District 4
Water Quality Program
111 Grand Avenue
Oakland, California 94612

Disclaimer

A "Disclaimer" is required specifying that the information provided in the Storm Water Information Handout is just a guideline and is to be used for information purposes only and should not be considered a sole source document to adhere to the requirements of the new National Pollutant Discharge Elimination System (NPDES) Construction General Permit (CGP), Number CAS000002, adopted on September 2, 2009. The contractor is required to provide water quality monitoring, sampling and implement best management practices (BMPs) based on standard industry operations, field conditions and conditions encountered based on the contractor's means and methods. The information in this handout is not to be construed in any way as a waiver of the provisions in the CGP. Bidders and contractors are cautioned to make independent investigations and examinations as they deem necessary to satisfy the conditions encountered in performance of work, with respect to the following: sampling and monitoring locations, distribution of watershed areas for sizing of BMPs, and selection of BMPs in order to conform to the requirement of the contract documents and the CGP.

Project Vicinity



Risk Assessment

	A	B	C
1	Sediment Risk Factor Worksheet		Entry
2	A) R Factor		
3	Analyses of data indicated that when factors other than rainfall are held constant, soil loss is directly proportional to a rainfall factor composed of total storm kinetic energy (E) times the maximum 30-min intensity (I30) (Wischmeier and Smith, 1958). The numerical value of R is the average annual sum of EI30 for storm events during a rainfall record of at least 22 years. "Isoerodent" maps were developed based on R values calculated for more than 1000 locations in the Western U.S. Refer to the link below to determine the R factor for the project site.		
4	http://cfpub.epa.gov/npdes/stormwater/LEW/lewCalculator.cfm		
5	R Factor Value		26.06
6	B) K Factor (weighted average, by area, for all site soils)		
7	The soil-erodibility factor K represents: (1) susceptibility of soil or surface material to erosion, (2) transportability of the sediment, and (3) the amount and rate of runoff given a particular rainfall input, as measured under a standard condition. Fine-textured soils that are high in clay have low K values (about 0.05 to 0.15) because the particles are resistant to detachment. Coarse-textured soils, such as sandy soils, also have low K values (about 0.05 to 0.2) because of high infiltration resulting in low runoff even though these particles are easily detached. Medium-textured soils, such as a silt loam, have moderate K values (about 0.25 to 0.45) because they are moderately susceptible to particle detachment and they produce runoff at moderate rates. Soils having a high silt content are especially susceptible to erosion and have high K values, which can exceed 0.45 and can be as large as 0.65. Silt-size particles are easily detached and tend to crust, producing high rates and large volumes of runoff. Use Site-specific data must be submitted.		
8	Site-specific K factor guidance		
9	K Factor Value		0.25
10	C) LS Factor (weighted average, by area, for all slopes)		
11	The effect of topography on erosion is accounted for by the LS factor, which combines the effects of a hillslope-length factor, L, and a hillslope-gradient factor, S. Generally speaking, as hillslope length and/or hillslope gradient increase, soil loss increases. As hillslope length increases, total soil loss and soil loss per unit area increase due to the progressive accumulation of runoff in the downslope direction. As the hillslope gradient increases, the velocity and erosivity of runoff increases. Use the LS table located in separate tab of this spreadsheet to determine LS factors. Estimate the weighted LS for the site prior to construction.		
12	LS Table		
13	LS Factor Value		0.44
14			
15	Watershed Erosion Estimate (=RxKxLS) in tons/acre		2.87
16	Site Sediment Risk Factor		Low
17	Low Sediment Risk: < 15 tons/acre		
18	Medium Sediment Risk: >=15 and <75 tons/acre		
19	High Sediment Risk: >= 75 tons/acre		
20			

Receiving Water (RW) Risk Factor Worksheet	Entry	Score		
A. Watershed Characteristics	yes/no			
A.1. Does the disturbed area discharge (either directly or indirectly) to a 303(d)-listed waterbody impaired by sediment (For help with impaired waterbodies please check the attached worksheet or visit the link below) or has a USEPA approved TMDL implementation plan for sediment ?: 2006 Approved Sediment-impaired WBs Worksheet http://www.waterboards.ca.gov/water_issues/programs/tmdl/303d_lists2006_epa.shtml	no	Low		
OR				
A.2. Does the disturbed area discharge to a waterbody with designated beneficial uses of SPAWN & COLD & MIGRATORY? http://www.ice.ucdavis.edu/geowbs/asp/wbquse.asp				

		Combined Risk Level Matrix		
		<u>Sediment Risk</u>		
<u>Receiving Water Risk</u>	Low	Low	Medium	High
	Low	Level 1	Level 2	
High	Level 2		Level 3	

Project Sediment Risk: **Low**

Project RW Risk: **Low**

Project Combined Risk: **Level 1**

Rainfall Data

Rainfall Intensity can be obtained by the following link:

<http://www.wrcc.dri.edu/pcpnfreq/nca5y24.gif>

Refer to chapters 800, Highway Drainage Design of Highway Design Manual for information on runoff coefficient and shed map. The weighted runoff coefficient of 0.55 is recommended for the project area.

Project Discharge and Sampling Locations

NOTE:

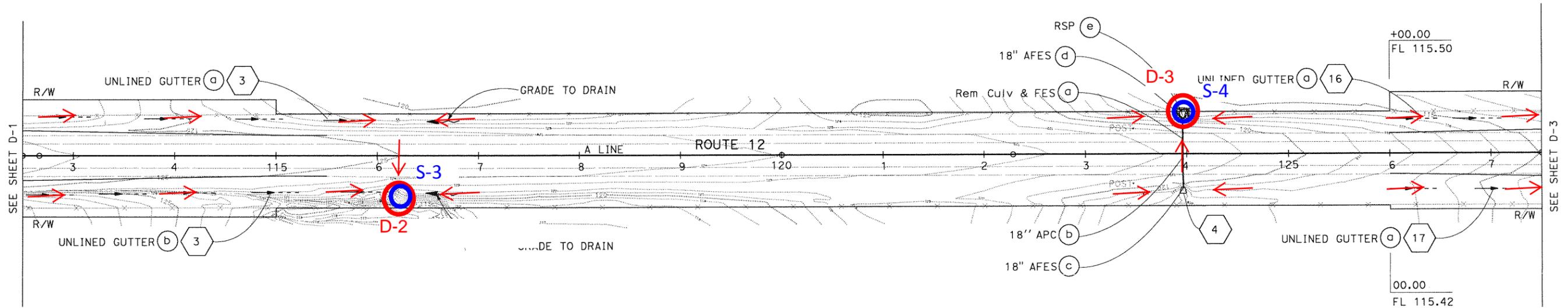
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SoI	12	20.6/23.5		

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
 No. _____
 Exp. _____
 CIVIL
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET D-1

THIS PLAN FOR DRAINAGE WORK ONLY

DRAINAGE PLAN
SCALE: 1" = 50'

D-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	A
CHECKED BY	A
DESIGNED BY	A
REVISOR	A
DATE REVISOR	A

BORDER LAST REVISED 7/2/2010

USERNAME => s130819
DGN FILE => 04000008321a002.dgn



UNIT 0701

PROJECT NUMBER & PHASE

04000008321

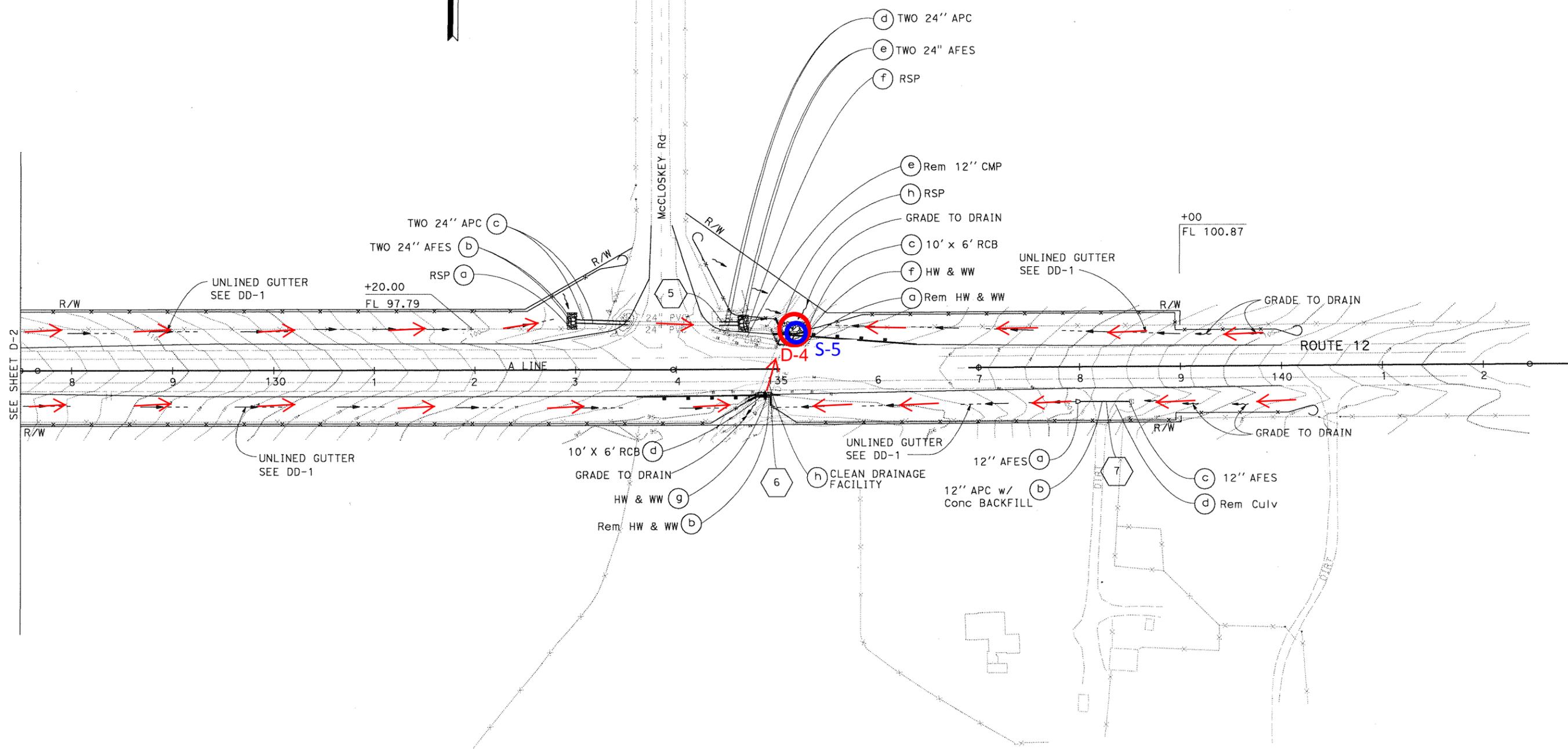
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07-24-12 TIME PLOTTED => 12:46

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SoI	12	20.6/23.5		

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET D-1

THIS PLAN FOR DRAINAGE WORK ONLY

DRAINAGE PLAN
SCALE: 1" = 50'

D-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
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REVISOR BY
A
DATE REVISED
A

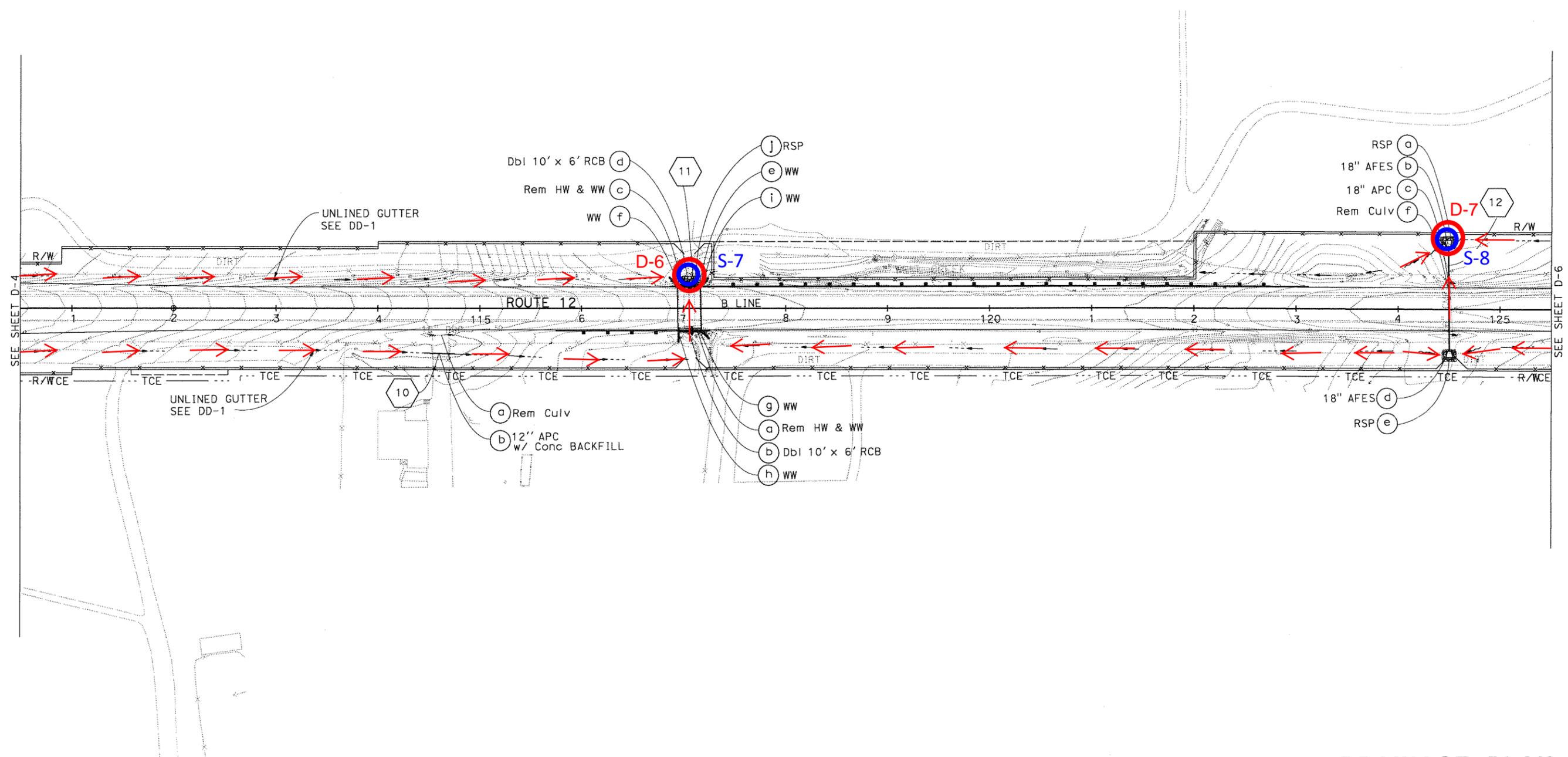
NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SoI	12	20.6/23.5		

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET D-1

THIS PLAN FOR DRAINAGE WORK ONLY

DRAINAGE PLAN
SCALE: 1" = 50'

D-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

REVISOR	DATE	REVISION

FUNCTIONAL SUPERVISOR	DESIGNED BY	CHECKED BY
A	A	A

BORDER LAST REVISED 7/2/2010

USERNAME => s130819
DGN FILE => 0400000832i0005.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0701

PROJECT NUMBER & PHASE

04000008321

LAST REVISION DATE PLOTTED => 15-AUG-2012
 08-01-12 TIME PLOTTED => 12:46

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Soi	12	20.6/23.5		

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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DESIGN	FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR
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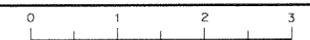


DRAINAGE PLAN
SCALE: 1" = 50'

D-7

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET D-1

THIS PLAN FOR DRAINAGE WORK ONLY



401 Impact Map



Legend

- Proposed Wildlife Directional Fencing
- Proposed Cut and Fill Line (65% Final Design)
- Proposed Culverts
- - - Proposed ESA Fencing

▼ Photo Location & Direction

Potential Waters of the U.S.
(Based on Preliminary JD, July 22, 2009)

- Ephemeral Drainage
- Isolated Wetland
- Roadside Drainage
- Seasonal Wetland

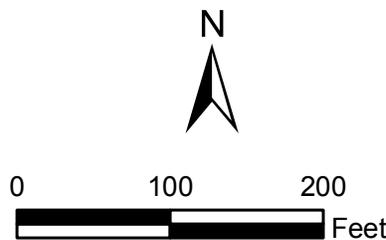
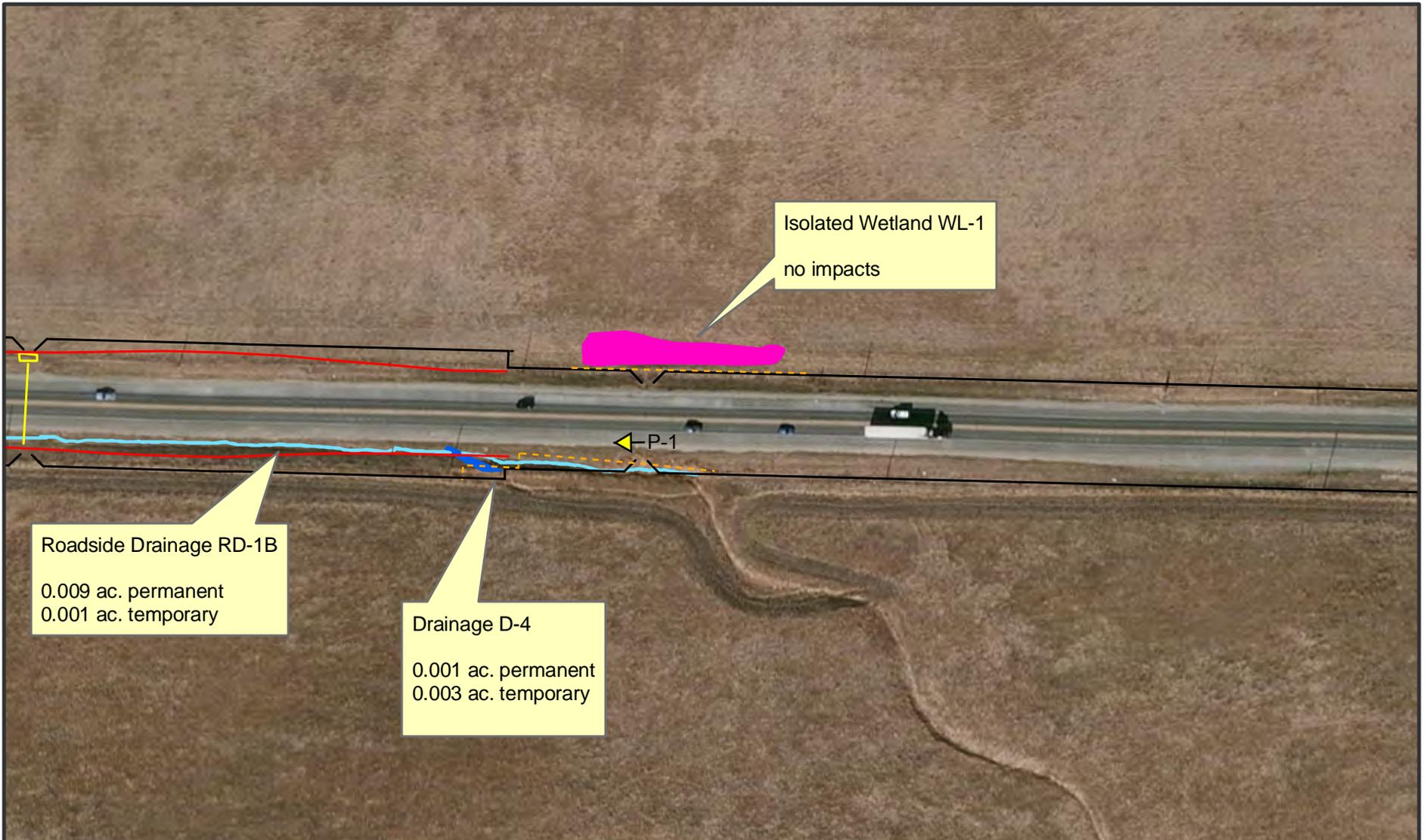


Figure 3-5
Map 1 of 9
Proposed Impacts to Potential Waters of the U.S. - Segment A

Solano County
State Route 12
Shoulder Widening and Clear Recovery Zone Project (2A620)



Legend

- Proposed Wildlife Directional Fencing
- Proposed Cut and Fill Line (65% Final Design)
- Proposed Culverts
- - - Proposed ESA Fencing
- ▼ Photo Location & Direction

Potential Waters of the U.S.
(Based on Preliminary JD, July 22, 2009)

- Ephemeral Drainage
- Isolated Wetland
- Roadside Drainage
- Seasonal Wetland



N



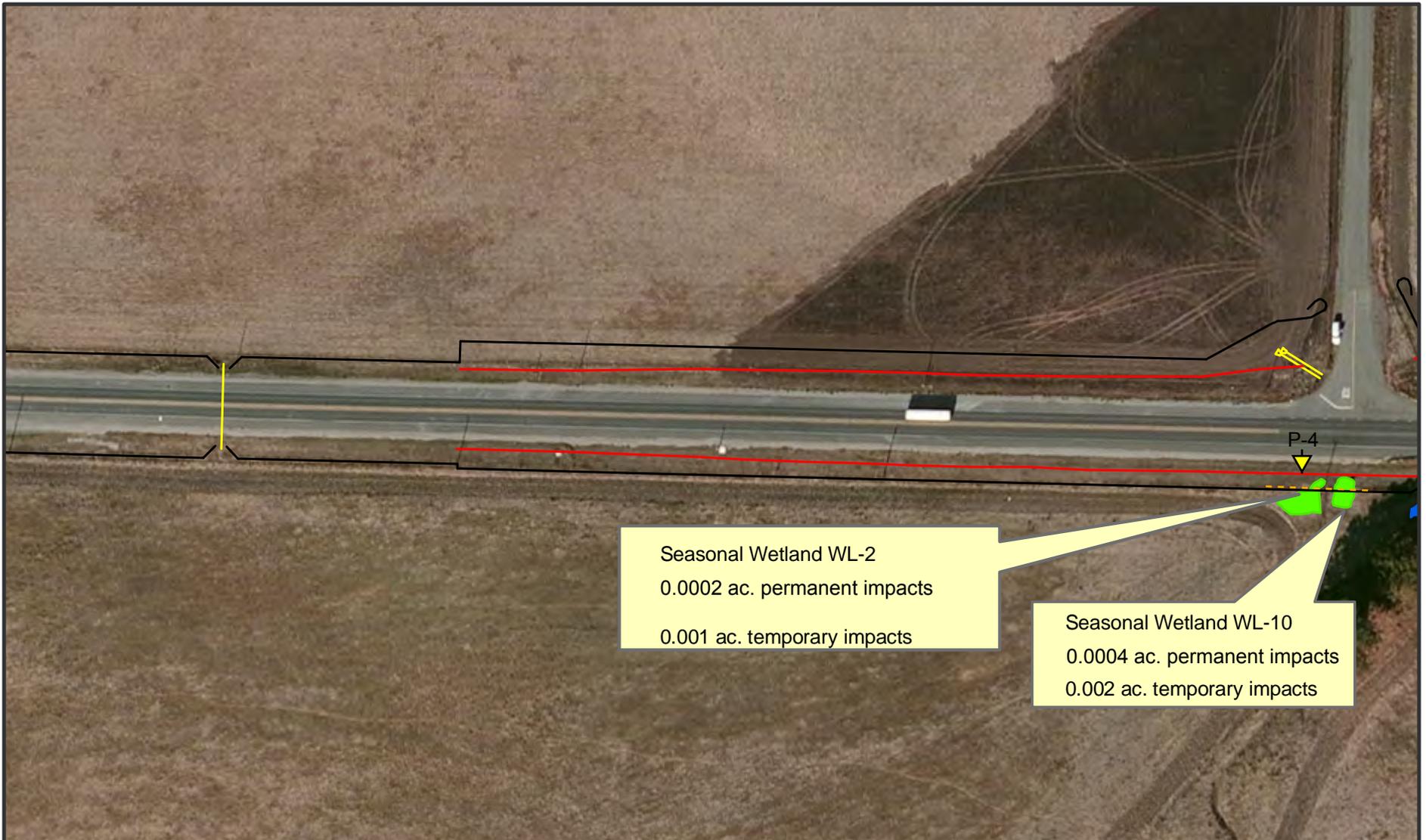
0 100 200



Feet

Figure 3-5
Map 2 of 9
Proposed Impacts to Potential Waters of the U.S. - Segment A

Solano County
 State Route 12
 Shoulder Widening and Clear Recovery Zone Project (2A620)



Legend

- Proposed Wildlife Directional Fencing
 - Proposed Cut and Fill Line (65% Final Design)
 - Proposed Culverts
 - - - Proposed ESA Fencing
 - ▼ Photo Location & Direction
- Potential Waters of the U.S.**
(Based on Preliminary JD, July 22, 2009)
- Ephemeral Drainage
 - Isolated Wetland
 - Roadside Drainage
 - Seasonal Wetland

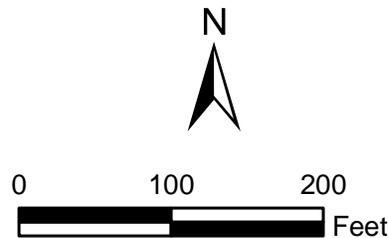
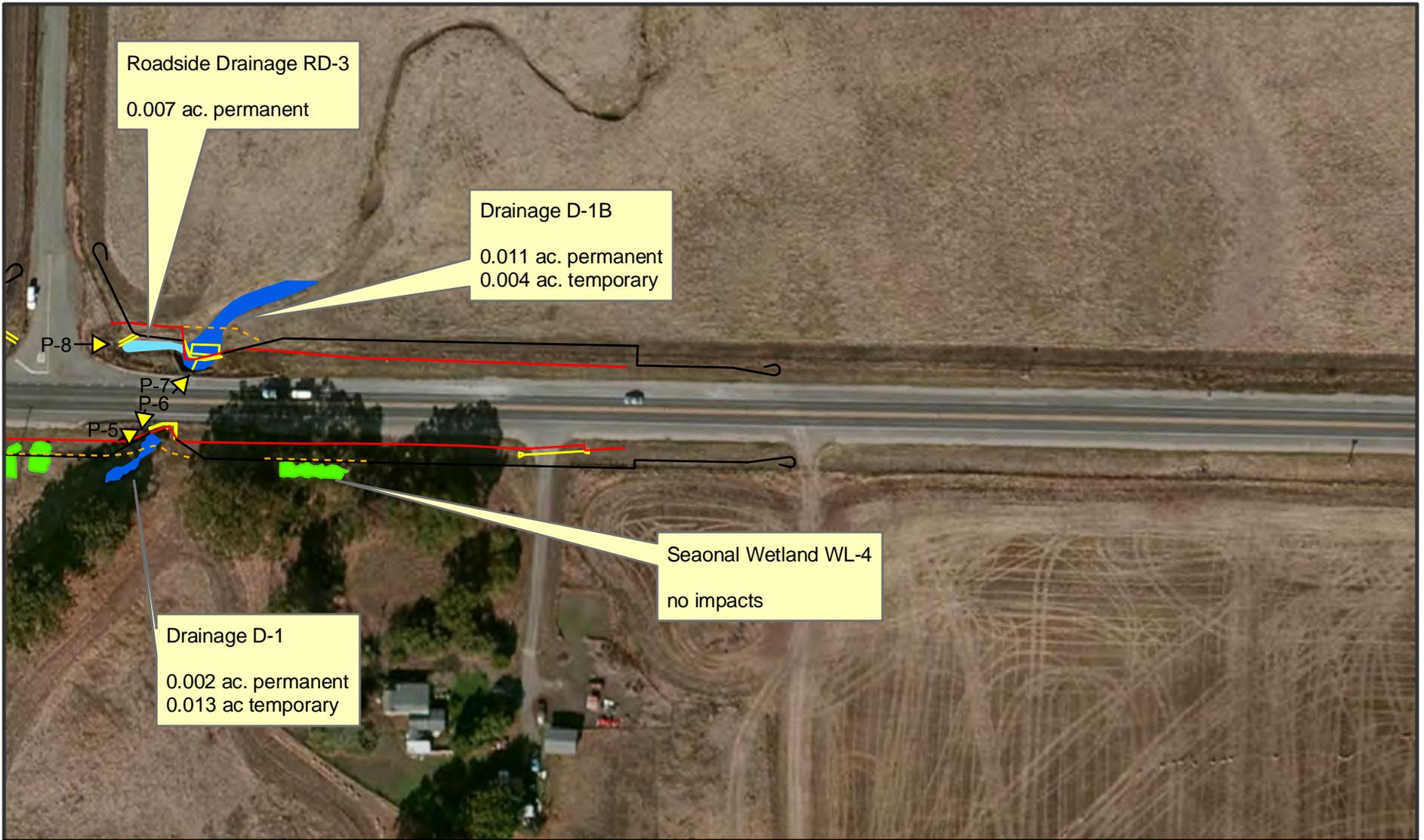


Figure 3-5
Map 3 of 9
Proposed Impacts to Potential Waters of the U.S. - Segment A

Solano County
State Route 12
Shoulder Widening and Clear Recovery Zone Project (2A620)



Legend

- Proposed Wildlife Directional Fencing
- Proposed Cut and Fill Line (65% Final Design)
- Proposed Culverts
- - - Proposed ESA Fencing
- ▼ Photo Location & Direction
- Potential Waters of the U.S.**
(Based on Preliminary JD, July 22, 2009)
- Ephemeral Drainage
- Isolated Wetland
- Roadside Drainage
- Seasonal Wetland

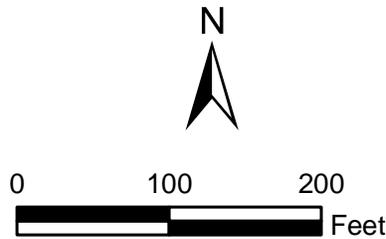
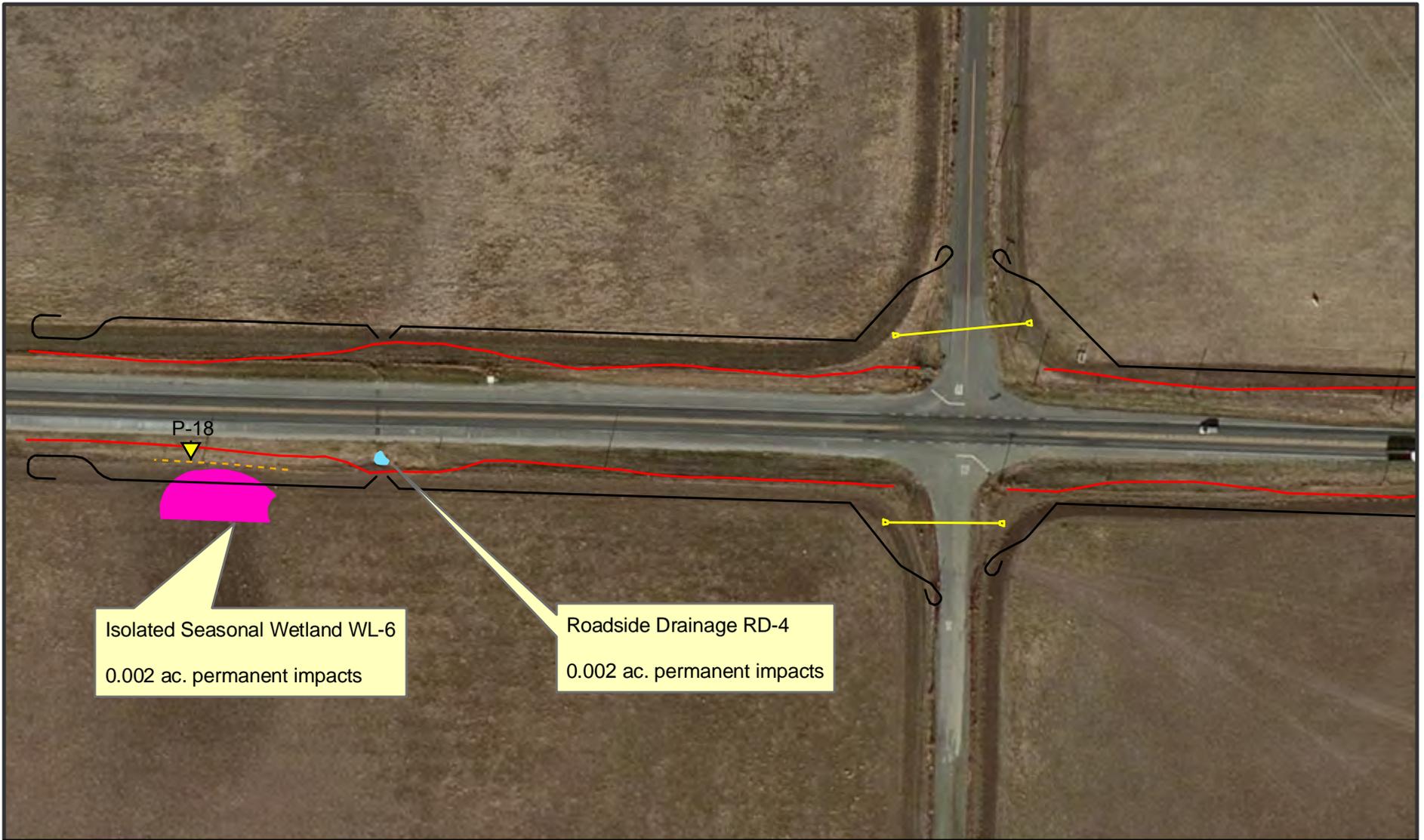


Figure 3-5
Map 4 of 9
Proposed Impacts to Potential Waters of the U.S. - Segment A

Solano County
 State Route 12
 Shoulder Widening and Clear Recovery Zone Project (2A620)



Legend

- Proposed Wildlife Directional Fencing
- Proposed Cut and Fill Line (65% Final Design)
- Proposed Culverts
- - - Proposed ESA Fencing
- ▼ Photo Location & Direction
- Potential Waters of the U.S.**
(Based on Preliminary JD, July 22, 2009)
- Ephemeral Drainage
- Isolated Wetland
- Roadside Drainage
- Seasonal Wetland

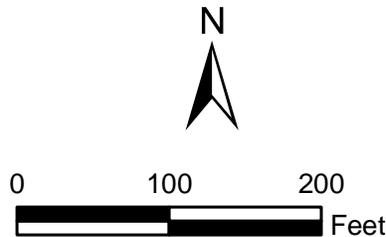


Figure 3-5
Map 5 of 9
Proposed Impacts to Potential Waters of the U.S. - Segment B

Solano County
 State Route 12
 Shoulder Widening and Clear Recovery Zone Project (2A620)



Isolated Wetland WL-8

0.001 ac. permanent
0.009 ac. temporary

P-25

Legend

- Proposed Wildlife Directional Fencing
- Proposed Cut and Fill Line (65% Final Design)
- Proposed Culverts
- - - Proposed ESA Fencing
- ▼ Photo Location & Direction
- Potential Waters of the U.S.**
(Based on Preliminary JD, July 22, 2009)
- Ephemeral Drainage
- Isolated Wetland
- Roadside Drainage
- Seasonal Wetland

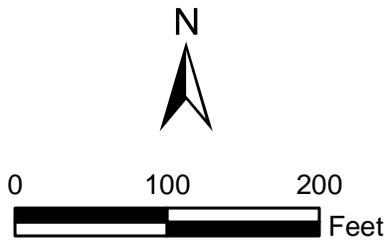
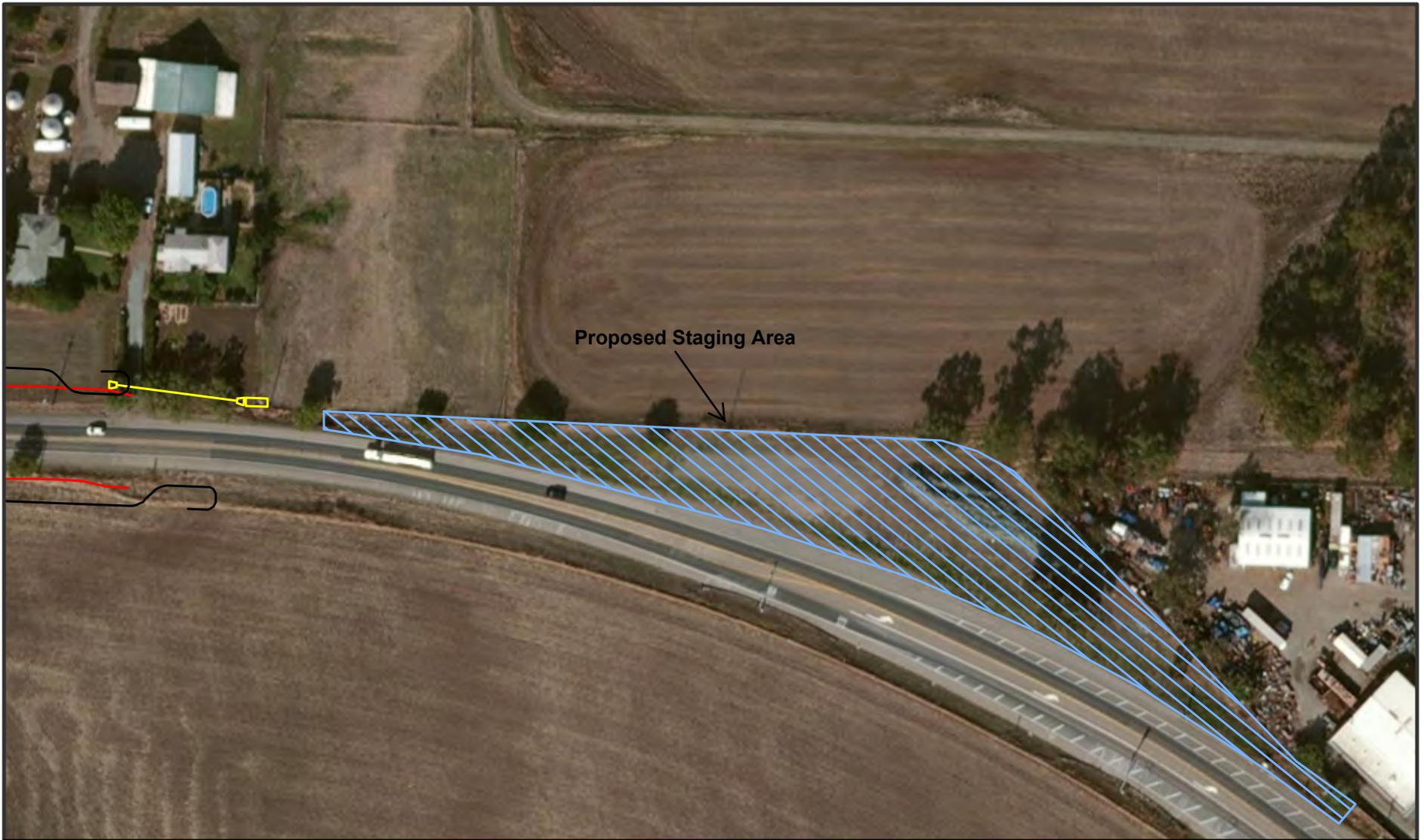


Figure 3-5
Map 7 of 9
Proposed Impacts to Potential Waters of the U.S. - Segment B

Solano County
State Route 12
Shoulder Widening and Clear Recovery Zone Project (2A620)



<p>Legend</p> <ul style="list-style-type: none"> Proposed Wildlife Directional Fencing Proposed Cut and Fill Line (65% Final Design) Proposed Culverts Proposed ESA Fencing 	<p> Photo Location & Direction</p> <p>Potential Waters of the U.S. (Based on Preliminary JD, July 22, 2009)</p> <ul style="list-style-type: none"> Ephemeral Drainage Isolated Wetland Roadside Drainage Seasonal Wetland 	<p style="text-align: center;">N</p>  <p style="text-align: center;">0 100 200</p> <p style="text-align: center;"> Feet</p>	<p>Figure 3-5 Map 8 of 9 Proposed Impacts to Potential Waters of the U.S. - Segment B</p> <p>Solano County State Route 12 Shoulder Widening and Clear Recovery Zone Project (2A620)</p>
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Legend

- Proposed Wildlife Directional Fencing
- Proposed Cut and Fill Line (65% Final Design)
- Proposed Culverts
- - - Proposed ESA Fencing

▼ Photo Location & Direction
Potential Waters of the U.S.
 (Based on Preliminary JD, July 22, 2009)

- Ephemeral Drainage
- Isolated Wetland
- Roadside Drainage
- Seasonal Wetland

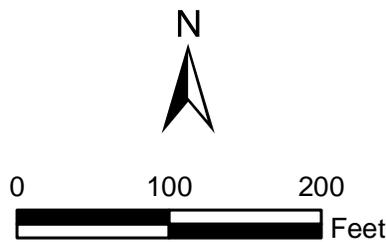


Figure 3-5
Map 9 of 9
Proposed Impacts to Potential Waters of the U.S. - Segment B

Solano County
 State Route 12
 Shoulder Widening and Clear Recovery Zone Project (2A620)

Permits

- California Department of Fish & Game
Streambed Alternation Agreement
Notification No. 1600-2012-0213-R3

- Clean Water Act 401
Technically Conditioned Water Quality Certification
Solano State Route 12 Shoulder Widening Project
WDID #5A48CR00114

Please ensure the highlighted item of #16 of Clean Water Act 401 is addressed in Contractor's SWPPP prior to Approval of SWPPP: *Develop and maintain onsite a project-specific Spill Preventive, Containment and Cleanup Plan outlining the practices to prevent, minimize and/or clean up potential spills during construction of the project. See the attachment of Compliance with Condition 16 in the 401 Certification in this section.*

Contractor must meet both requirements as highlighted #22 in Clean Water Act 401 and # 2.16 in Dept. Fish & Game 1602 regarding contacts and disposal of any surface water during concrete curing.

Please pay close attention to the highlighted item of #1 of Clean Water Act 401: *The California Department of Transportation shall notify the Central Valley Water Board in writing 7 days in advance of the start of any work within waters of the United States and State. The notification shall include the name of the project and the WDID number.*

Compliance with Condition 16 in the 401 Certification:

Project-Specific Spill Containment and Cleanup Plan (SCCP)

To comply with condition 16 in the 401 Certification issued by the Central Valley Regional Water Quality Control Board, a project-specific SCCP should be prepared and included in Section 500 (500.1.1) of the Storm Water Pollution Prevention Plan (SWPPP).

The SCCP shall describe in detail how the contractor will implement all the requirements of this specification:

1. Spill prevention
2. Material management
3. Waste Management
4. Non Storm Water management
5. Dewatering

The SCCP is a plan specific to the project which addresses the site conditions during construction and the construction activities needed to complete the project.

All work activities that may produce waste during the construction process, either solid or liquid, must be described in detail in the SCCP with all the associated BMPs implemented to manage the waste. The description shall include

1. Details of materials and equipment used
2. Description of the waste produced
3. Details of BMPs implemented for waste discharge prevention, waste management and disposal, and waste cleanup for accidental discharges
4. Training provided to employees and subcontractors on implementation of these BMPs

The plan shall also included monitoring protocols to:

1. Observe and document waste producing activities
2. Document, manage and report any accidental discharges
3. Clean up and sample affected area
4. Disposal of waste

The SCCP shall be amended whenever new conditions are discovered or arise due to changes in operations, materials, and/or site management practices. The amendment may be proposed by the Contractor or requested by the Engineer.

Every 6 months the Contractor shall submit a SCCP Progress Report that includes the following information for the reporting period:

1. Summary of all discharges
2. Summary of all corrective measures implemented
3. Summary of training in construction site management provided to employees and subcontractors
4. Summary of all environmental sampling conducted to characterize materials, waste for disposal, to identify any water quality impact, and/or to ascertain effectiveness of the cleanup methods



State of California – The Natural Resources Agency
DEPARTMENT OF FISH AND GAME
Bay Delta Region
7329 Silverado Trail
Napa, CA 94558
(707) 944-5500
www.dfg.ca.gov

EDMUND G. BROWN JR., Governor
CHARLTON H. BONHAM, Director



December 6, 2012

Jeffrey G. Jensen
California Department of Transportation
111 Grand Avenue
Oakland, CA 94623

Subject: Final Lake or Streambed Alteration Agreement
Notification No. 1600-2012-0213-R3
State Route 12 Safety Widening and Clear Recovery Zone Project
Solano County

Dear Mr. Jensen:

Enclosed is the final Streambed Alteration Agreement (“Agreement”) for the State Route 12 Safety Widening and Clear Recovery Zone Project (“Project”). Before the Department may issue an Agreement, it must comply with the California Environmental Quality Act (“CEQA”). In this case, the Department, acting as a responsible agency, filed a notice of determination (“NOD”) on December 6, 2012, based on information contained in the Mitigated Negative Declaration the lead agency prepared for the Project.

Under CEQA, filing a NOD starts a 30-day period within which a party may challenge the filing agency’s approval of the project. You may begin your project before the 30-day period expires if you have obtained all necessary local, state, and federal permits or other authorizations. However, if you elect to do so, it will be at your own risk.

If you have any questions regarding this matter, please contact Melissa Escaron, Staff Environmental Scientist, at (707) 339-0334 or mescaron@dfg.ca.gov.

Sincerely,

Craig J. Weightman
Acting Environmental Program Manager
Bay Delta Region

cc: Andrew Amacher, Caltrans
Warden Bolla
Warden Shelton
Melissa Escaron

CALIFORNIA DEPARTMENT OF FISH AND GAME
BAY DELTA REGION
7329 SILVERADO TRAIL
NAPA, CALIFORNIA 94558
(707) 944-5520
WWW.DFG.CA.GOV



STREAMBED ALTERATION AGREEMENT
NOTIFICATION No. 1600-2012-0213-R3
An Unnamed Drainage and Well Creek

CALIFORNIA DEPARTMENT OF TRANSPORTATION
STATE ROUTE 12 SHOULDER WIDENING AND CLEAR RECOVERY ZONE
PROJECT

This Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Game (DFG) and California Department of Transportation (Permittee) or as represented Jeffrey G. Jensen.

RECITALS

WHEREAS, pursuant to Fish and Game Code (FGC) section 1602, Permittee notified DFG on May 12, 2012 that Permittee intends to complete the project described herein.

WHEREAS, pursuant to FGC section 1603, DFG has determined that the project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, Permittee has reviewed the Agreement and accepts its terms and conditions, including the measures to protect fish and wildlife resources.

NOW THEREFORE, Permittee agrees to complete the project in accordance with the Agreement

PROJECT LOCATION

The project is located in an unnamed drainage, and Well Creek, on State Route (SR) 12 at post miles (PM) 21.13 and 22.91 near the city of Rio Vista, in the County of Solano, State of California;

PROJECT DESCRIPTION

The proposed culvert work is being done as part of a larger Caltrans project that will modify SR 12 near Rio Vista, from west of Liberty Island Road to west of Currie Road to improve safety.

The existing concrete box culverts at PM 21.13 and PM 22.91 will be extended to accommodate the roadway widening. The extensions will require excavation of the creek bed to install the extensions flush with the existing culvert grades.

No riparian trees will be removed to complete the proposed work.

PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include:

- Riparian habitat
- California tiger salamander dispersal habitat
- aquatic invertebrates

The adverse effects the project could have on the fish or wildlife resources identified above include:

- Increased shading
- Permanent and temporary loss of natural bed and bank
- Habitat degradation
- Water quality degradation
- Short-term release of contaminants

MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

1. Administrative Measures

Permittee shall meet each administrative requirement described below.

- 1.1 Documentation at Project Site. Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all times and shall be presented to DFG personnel, or personnel from another state, federal, or local agency upon request.
- 1.2 Providing Agreement to Persons at Project Site. Permittee shall provide copies of the Agreement and any extensions and

amendments to the Agreement to all persons who will be working on the project at the project site on behalf of Permittee, including but not limited to contractors, subcontractors, inspectors, and monitors.

- 1.3 Notification of Conflicting Provisions. Permittee shall notify DFG if Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, DFG shall contact Permittee to resolve any conflict.
- 1.4 Project Site Entry. Permittee agrees that DFG personnel may, with notification of the Resident Engineer, enter the project site at any time to verify compliance with the Agreement.

2. Avoidance and Minimization Measures

To avoid or minimize adverse impacts to fish and wildlife resources identified above, Permittee shall implement each measure listed below.

2.1 To minimize adverse impacts to fish and wildlife all work described in the project location and description shall be confined to the period of May 15 to October 15. Revegetation work is not confined to this time period.

2.2 At least 30-days prior to commencing project activities covered by this Agreement, the Permittee shall submit to DFG, for review and approval, the qualifications for a number of biologists (Qualified Biologist) that shall oversee the implementation of the conditions in this Agreement. At a minimum, the Qualified Biologists shall have a combination of academic training and professional experience in biological sciences and related resource management activities. The Qualified Biologists shall communicate to the Resident Engineer when any activity is not in compliance with this Agreement and the Resident Engineer shall immediately stop the activity that is not in compliance with this Agreement.

2.3 The Qualified Biologist shall perform a clearance survey immediately prior to initial ground disturbance. Safety permitting, the Qualified Biologist will investigate areas of disturbed soil for signs of sensitive species within 30 minutes following initial ground disturbance.

2.4 No riparian trees shall be removed.

2.5 To protect nesting birds, no project activities shall occur from February 15 through August 31 unless nesting bird surveys have been completed by a Qualified Biologist. To prevent nest abandonment, a Qualified Biologist shall survey within 500 feet of the proposed Project, as described above in the 1602 Project Description, for

nesting birds. If nests are found within the Project site or within 500 feet from the Project limits, then a Qualified Biologist shall establish a 50-foot buffer radius for nests of non-raptor bird species or a 300-foot buffer radius for raptor nests where the buffer intersects the Project limits. A Qualified Biologist shall monitor the nesting birds and shall increase the buffer, through the Resident Engineer, if it is determined the birds are showing signs of unusual or distressed behavior that may be the result of Project activities. To prevent encroachment, the established buffer(s) shall be clearly marked within the Project limits by high visibility material. Surveys shall be conducted during periods of peak activity (morning, dusk) and shall be of sufficient duration to observe movement patterns. Identified nests shall be reported to DFG. The buffer area shall be clearly marked by high visibility material within the Project limits, protected from work activities, and avoided until the young have fledged, as determined by a Qualified Biologist. During work, should birds indicate unusual or distressed behavior that could be indicative of future nest abandonment, a Qualified Biologist shall stop work immediately, through the Resident Engineer, and consult DFG on how to proceed.

2.6 A Qualified Biologist will be onsite if ponding persists at the box culvert near McClosky Road or anywhere else in the project area at any time of the year. In such a case a Qualified Biologist will thoroughly inspect the ponded area for California tiger salamander. If a state or federally listed species is found, DFG and/or US Fish and Wildlife Service (USFWS) will be contacted immediately and the Permittee shall, through the Resident Engineer, restrict construction activities within 250 feet of the animal, until permission to resume is granted by DFG and/or USFWS.

2.7 Any plan for water diversion shall ensure that all pump intake hose shall be screened and fitted with a steel nozzle with no greater than 1-inch screen holes. A Qualified Biologist shall be onsite to inspect for sensitive species. The downstream bypass outfall hose shall be fitted with filter cloth and placed on a straw bed for discharge either in uplands along the bank of the creek or directly within the channel depending upon flow conditions to minimize downstream erosion. The removal of the diversion will proceed in a downstream to upstream direction.

2.8 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 closed (animal-proof) containers and removed regularly (at least once a week) to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.

2.9 If any wildlife is encountered during the course of project activities, said wildlife shall be allowed to leave the area unharmed and on their own volition.

2.10 Permittee shall comply with all applicable state and federal laws, including the California and Federal Endangered Species Act. This Agreement does not authorize the take of any state or federally endangered listed species. Liability for any take or incidental take of such species remains the responsibility of the Permittee for the

duration of the project. Any unauthorized take of listed species may result in prosecution and nullification of the Agreement.

2.11 The perimeter of the work site shall be adequately fenced using high visibility Environmentally Sensitive Area (ESA) fencing to prevent damage to adjacent riparian habitat. No construction activities, within the riparian zone, will be allowed within the habitat protected by the ESA fencing.

2.12 Prior to ground or vegetation disturbance activities, Wildlife Exclusion Fencing (WEF) shall be installed and a Designated Biologist shall be present to monitor installation of the WEF. WEF shall consist of taut fabric or mesh such as Ertec E-fence at least 14 inches in height, staked at least 10-foot intervals, with the bottom buried 6 inches below grade. WEF shall be maintained so that it is intact at all times

2.13 Permittee shall conduct work defined in the above project description, and within the project area, during periods of dry weather. The project area is defined as the bed, bank, channel, and associated riparian habitat. The Permittee shall monitor forecasted precipitation. When $\frac{1}{4}$ inch or more of precipitation is forecasted to occur, the Permittee shall stop work before precipitation commences. No activity of the project may be started if its associated erosion control measures cannot be completed prior to the onset of precipitation. After any storm event, the Permittee shall inspect all sites currently under construction and all sites scheduled to begin construction within the next 72 hours for erosion and sediment problems and take corrective action as needed. Seventy-two hour weather forecasts from National Weather Service shall be consulted and work shall not start back up until runoff ceases and there is less than a 30% forecast for precipitation for the following 24-hour period.

2.14 Permittee shall utilize erosion control measures throughout all phases of operation where sediment runoff from exposed slopes threatens to enter waterways. At no time shall silt laden runoff be allowed to enter the stream or directed to where it may enter the stream. Erosion control installations shall be monitored for effectiveness and shall be repaired or replaced as recommended by a Water Quality Inspector to the Resident Engineer. As needed to prevent sediment transport, Permittee shall utilize soil stabilization and sediment control practices, which may include, but are not limited to, the following: hydroseeding, netting, erosion control mats, mulch, fiber rolls, silt fences, check dams, and flow velocity dissipation devices. Permittee shall stabilize construction site entrances and exits. Straw wattles (fiber rolls) and rolled erosion control products that contain monofilament or plastic shall not be used. Temporary erosion and sediment control measures shall be installed prior to unseasonable rain storms.

2.15 All disturbed areas shall be re-graded and hydroseeded. Disturbed soils shall be hydroseeded with native grass species prior to October 15th of the year of disturbance. Any temporarily impacted areas not re-graded and hydroseeded by October 15th of the impact year shall be considered permanently impacted and shall be mitigated for at a 3:1 acreage ratio as described in Condition 3.1.

2.16 Concrete shall be excluded from surface water for a period of 30-days after it is poured/sprayed. During that time the concrete shall be kept moist and runoff from the concrete shall not be allowed to enter any water body. Commercial sealants may be applied to the concrete surface where difficulty in excluding flow for a long period may occur. If sealant is used, water shall be excluded from the site until the sealant is cured. If groundwater comes into contact with fresh concrete, it shall be prevented from flowing towards surface water.

2.17 Staging and storage areas for equipment, materials, fuels, lubricants and solvents, shall be located outside of the creek channel and banks. Stationary equipment such as motors, pumps, generators, compressors and welders, located within or adjacent to the creek shall be positioned over drip pans. Any equipment or vehicles driven and/or operated within or adjacent to the stream must be checked and maintained daily, to prevent leaks of materials that if introduced to water could be deleterious to aquatic life.

2.18 Refueling of mobile construction equipment and vehicles shall not occur within 50 feet of any water body, or anywhere that spilled fuel could drain to a water body. Refueling of stationary equipment requiring breakdown and setup to move will remain in place. All equipment shall be refueled with appropriate drip pans, absorbent pads, and water quality Best Management Practices. Equipment and vehicles operating in the project area shall be checked and maintained daily to prevent leaks of fuels, lubricants, or other liquids.

3. Compensatory Measures

3.1 At least 60 days prior to commencement of construction, the Permittee shall submit, for DFG review and written approval, a detailed Offsite Habitat Mitigation Plan. The Offsite Habitat Mitigation Plan shall mitigate .03 acres (52 linear feet) of permanent riparian habitat impacts at a minimum of a 3:1 acreage ratio.

CONTACT INFORMATION

Any communication that Permittee or DFG submits to the other shall be in writing and any communication or documentation shall be delivered to the address below by U.S. mail, fax, or email, or to such other address as Permittee or DFG specifies by written notice to the other.

To Permittee:

California Department of Transportation
Jeffrey G. Jensen
111 Grand Ave.
(510)622-8729
Jeffrey_jensen@dot.ca.gov

To DFG:

Department of Fish and Game
Bay Delta Region
7329 Silverado Trail
Napa, CA 94558
Attn: Lake and Streambed Alteration Program – Melissa Escaron
Notification #1600-2012-0213-R3
mescaron@dfg.ca.gov

LIABILITY

Permittee shall be solely liable for any violations of the Agreement, whether committed by Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute DFG's endorsement of, or require Permittee to proceed with the project. The decision to proceed with the project is Permittee's alone.

SUSPENSION AND REVOCATION

DFG may suspend or revoke in its entirety the Agreement if it determines that Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before DFG suspends or revokes the Agreement, it shall provide Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide Permittee an opportunity to correct any deficiency before DFG suspends or revokes the Agreement, and include instructions to Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused DFG to issue the notice.

ENFORCEMENT

Nothing in the Agreement precludes DFG from pursuing an enforcement action against Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects DFG's enforcement authority or that of its enforcement personnel.

OTHER LEGAL OBLIGATIONS

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the project or an activity related to it.

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 et seq. (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

Nothing in the Agreement authorizes Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

AMENDMENT

DFG may amend the Agreement at any time during its term if DFG determines the amendment is necessary to protect an existing fish or wildlife resource.

Permittee may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by DFG and Permittee. To request an amendment, Permittee shall submit to DFG a completed DFG "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the corresponding amendment fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

TRANSFER AND ASSIGNMENT

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective, unless the transfer or assignment is requested by Permittee in writing, as specified below, and thereafter DFG approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, Permittee shall submit to DFG a completed DFG "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the minor amendment fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

EXTENSIONS

In accordance with FGC section 1605(b), Permittee may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement's term. To request an extension, Permittee shall submit to DFG a completed DFG "Request to Extend Lake or Streambed Alteration" form and include with the completed form payment of the extension fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). DFG shall process the extension request in accordance with FGC 1605(b) through (e).

If Permittee fails to submit a request to extend the Agreement prior to its expiration, Permittee must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (Fish & G. Code, § 1605, subd. (f)).

EFFECTIVE DATE

The Agreement becomes effective on the date of DFG's signature, which shall be: 1) after Permittee's signature; 2) after DFG complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC section 711.4 filing fee listed at http://www.dfg.ca.gov/habcon/ceqa/ceqa_changes.html.

TERM

This Agreement shall expire on December 31, 2017, unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC section 1605(a)(2) requires.

AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of Permittee, the signatory hereby acknowledges that he or she is doing so on Permittee's behalf and represents and warrants that he or she has the authority to legally bind Permittee to the provisions herein.

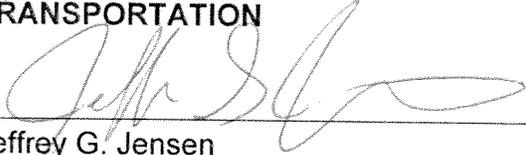
AUTHORIZATION

This Agreement authorizes only the project described herein. If Permittee begins or completes a project different from the project the Agreement authorizes, Permittee may be subject to civil or criminal prosecution for failing to notify DFG in accordance with FGC section 1602.

CONCURRENCE

The undersigned accepts and agrees to comply with all provisions contained herein.

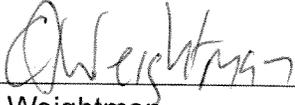
**FOR CALIFORNIA DEPARTMENT OF
TRANSPORTATION**



Jeffrey G. Jensen
Office Chief Biological Sciences and Permits

11/29/2012
Date

FOR DEPARTMENT OF FISH AND GAME



Craig Weightman
Acting Environmental Program Manager

12/7/12
Date

Prepared by: Melissa Escaron
Staff Environmental Scientist

Date Sent: September 25, 2012
Revision Sent: November 8, 2012
Revision Sent: November 29, 2012

FOR DEPARTMENT USE ONLY

Date Received	Amount Received	Amount Due	Date Complete	Notification No.
6/28/12	\$ 4,482.75	\$		1600-2012-0213-3



CL # 082-209241
 State of California
 Dept of Transportation

STATE OF CALIFORNIA
 DEPARTMENT OF FISH AND GAME
NOTIFICATION OF LAKE OR STREAMBED ALTERATION

Escallon
 Shelton
 Della
 Mason



Complete EACH field, unless otherwise indicated, following the enclosed instructions and submit ALL required enclosures. Attach additional pages, if necessary.

1. APPLICANT PROPOSING PROJECT

Fish & Game
 JUN 28 2012
 Yountville

Name	Jeffrey G. Jensen		
Business/Agency	California Department of Transportation, District 4		
Street Address	111 Grand Avenue		
City, State, Zip	Oakland, CA 94623		
Telephone	(510) 622-8729	Fax	(510) 286-6374
Email	jeffrey_jensen@dot.ca.gov		

2. CONTACT PERSON (Complete only if different from applicant)

Name	Andrew Amacher		
Street Address	California Department of Transportation, District 4		
City, State, Zip	111 Grand Avenue, Oakland, CA 94623		
Telephone	(510) 622-8727	Fax	(510) 286-5600
Email	andrew_amacher@dot.ca.gov		

3. PROPERTY OWNER (Complete only if different from applicant)

Name	State of California; California Department of Transportation, District 4		
Street Address	111 Grand Avenue		
City, State, Zip	Oakland, CA 94623		
Telephone		Fax	
Email			

4. PROJECT NAME AND AGREEMENT TERM

A. Project Name		Solano State Route 12 Shoulder Widening and Clear Recovery Zone		
B. Agreement Term Requested		<input checked="" type="checkbox"/> Regular (5 years or less) <input type="checkbox"/> Long-term (greater than 5 years)		
C. Project Term		D. Seasonal Work Period		E. Number of Work Days
Beginning (year)	Ending (year)	Start Date (month/day)	End Date (month/day)	
2013	2015	05/15	10/15	176.00

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

5. AGREEMENT TYPE

Check the applicable box. If box B, C, D, or E is checked, complete the specified attachment.

A.	<input checked="" type="checkbox"/> Standard (Most construction projects, excluding the categories listed below)	
B.	<input type="checkbox"/> Gravel/Sand/Rock Extraction (Attachment A)	Mine I.D. Number: _____
C.	<input type="checkbox"/> Timber Harvesting (Attachment B)	THP Number: _____
D.	<input type="checkbox"/> Water Diversion/Extraction/Impoundment (Attachment C)	SWRCB Number: _____
E.	<input type="checkbox"/> Routine Maintenance (Attachment D)	
F.	<input type="checkbox"/> DFG Fisheries Restoration Grant Program (FRGP)	FRGP Contract Number: _____
G.	<input type="checkbox"/> Master	
H.	<input type="checkbox"/> Master Timber Harvesting	

6. FEES

Please see the current fee schedule to determine the appropriate notification fee. Itemize each project's estimated cost and corresponding fee. *Note: The Department may not process this notification until the correct fee has been received.*

	A. Project	B. Project Cost	C. Project Fee
1	Solano State Route 12 Shoulder Widening and Clear Recovery Zone	\$5,000,000.00	\$4,482.75
2			
3			
4			
5			
		D. Base Fee (if applicable)	
		E. TOTAL FEE ENCLOSED	\$4,482.75

7. PRIOR NOTIFICATION OR ORDER

A. Has a notification previously been submitted to, or a Lake or Streambed Alteration Agreement previously been issued by, the Department for the project described in this notification?

Yes (Provide the information below) No

Applicant: _____ Notification Number: _____ Date: _____

B. Is this notification being submitted in response to an order, notice, or other directive ("order") by a court or administrative agency (including the Department)?

No Yes (Enclose a copy of the order, notice, or other directive. If the directive is not in writing, identify the person who directed the applicant to submit this notification and the agency he or she represents, and describe the circumstances relating to the order.)

Continued on additional page(s)

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

8. PROJECT LOCATION

<p>A. Address or description of project location. <i>(Include a map that marks the location of the project with a reference to the nearest city or town, and provide driving directions from a major road or highway)</i></p> <p>State Route 12, Currie Road to McClosky Road (postmile 20.6/21.3) and Azevedo Road to Liberty Island Road (postmile 22.6/23.7), Solano County.</p> <p align="right"><input type="checkbox"/> Continued on additional page(s)</p>				
B. River, stream, or lake affected by the project.		Sacramento River		
C. What water body is the river, stream, or lake tributary to?		Sacramento River		
D. Is the river or stream segment affected by the project listed in the state or federal Wild and Scenic Rivers Acts?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown
E. County	Solano County			
F. USGS 7.5 Minute Quad Map Name	G. Township	H. Range	I. Section	J. ¼ Section
Rio Vista	4N	2E	14, 15	SE
Rio Vista	4N	2E	22	NE
Birds Landing	4N	2E	16, 17	SW
Birds Landing	4N	2E	20, 21	NW
<input type="checkbox"/> Continued on additional page(s)				
K. Meridian (check one)	<input type="checkbox"/> Humboldt	<input checked="" type="checkbox"/> Mt. Diablo	<input type="checkbox"/> San Bernardino	
L. Assessor's Parcel Number(s)				
048-100-440, 048-100-530, 048-110-240, 048-120-420 and Caltrans' Right of Way				
<input type="checkbox"/> Continued on additional page(s)				
M. Coordinates (If available, provide at least latitude/longitude or UTM coordinates and check appropriate boxes)				
Latitude/Longitude	Latitude:	38°11' 00.62" N	Longitude:	121° 46'08.67 W
	<input type="checkbox"/> Degrees/Minutes/Seconds	<input type="checkbox"/> Decimal Degrees	<input checked="" type="checkbox"/> Decimal Minutes	
UTM	Easting:	Northing:	<input type="checkbox"/> Zone 10	<input type="checkbox"/> Zone 11
Datum used for Latitude/Longitude or UTM		<input type="checkbox"/> NAD 27	<input checked="" type="checkbox"/> NAD 83 or WGS 84	

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

10. PROJECT DESCRIPTION

A. Describe the project in detail. Photographs of the project location and immediate surrounding area should be included.

- Include any structures (e.g., rip-rap, culverts, or channel clearing) that will be placed, built, or completed in or near the stream, river, or lake.
- Specify the type and volume of materials that will be used.
- If water will be diverted or drafted, specify the purpose or use.

Enclose diagrams, drawings, plans, and/or maps that provide all of the following: site specific construction details; the dimensions of each structure and/or extent of each activity in the bed, channel, bank or floodplain; an overview of the entire project area (i.e., "bird's-eye view") showing the location of each structure and/or activity, significant area features, and where the equipment/machinery will enter and exit the project area.

Caltrans proposes to modify the SR 12 roadway from west of Liberty Island Road to west of Currie Road to allow for the addition of standard shoulder widths, a clear recovery zone, left turn pockets at three intersections, and the improvement of existing nonstandard vertical sight distances by reconstructing the roadway profile at PMs 21.3, 23.1, and 23.2. The proposed Project activities vary by milepost, and the Project area is divided into two distinct segments, A and B (See attachment 1; Figures 1 and 2).

Please see Attachment 1, section 10-A for a more detailed project description.

Continued on additional page(s)

B. Specify the equipment and machinery that will be used to complete the project.

Construction equipment that will likely be needed to complete the proposed Project include graders, excavators, a crane, a vibratory sheet pile driver, an asphalt drum grinder, transfer and bottom dump semi-trucks and trailers, lowboy-style trucks and trailers, cement trucks, Gradall-style articulating 4-wheel-drive forklifts, front-end loaders, vibramatic rollers, a hydro-seeding truck rig, and various pick-up trucks.

Continued on additional page(s)

C. Will water be present during the proposed work period (specified in box 4.D) in the stream, river, or lake (specified in box 8.B).

Yes No (*Skip to box 11*)

D. Will the proposed project require work in the wetted portion of the channel?

Yes (*Enclose a plan to divert water around work site*)
 No

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

12. MEASURES TO PROTECT FISH, WILDLIFE, AND PLANT RESOURCES

A. Describe the techniques that will be used to prevent sediment from entering watercourses during and after construction.

A Storm Water Pollution Prevention Plan (SWPPP) and erosion control best management practices will be developed and implemented to minimize any wind or water-related erosion. The plans will comply with the requirements of the Regional Water Quality Control Board. Caltrans BMP Guidance Handbook will provide guidance for design staff to include provisions in construction contracts for measures to protect sensitive areas and prevent and minimize storm water and non-storm water discharges.

Please see Attachment 1, Section 12-A.

Continued on additional page(s)

B. Describe project avoidance and/or minimization measures to protect fish, wildlife, and plant resources.

Please see Attachment 1, Section 12-B.

Continued on additional page(s)

C. Describe any project mitigation and/or compensation measures to protect fish, wildlife, and plant resources.

Please see Attachment 1, Section 12-C.

Continued on additional page(s)

13. PERMITS

List any local, state, and federal permits required for the project and check the corresponding box(es). Enclose a copy of each permit that has been issued.

- A. USACE Clean Water Act 404 Nationwide Permit-Application pending Applied Issued
- B. USFWS Biological Opinion Applied Issued
- C. CDFG 2081 ITP for California Tiger Salamander Applied Issued
- D. Unknown whether local, state, or federal permit is needed for the project. (Check each box that applies)

Continued on additional page(s)

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

16. DIGITAL FORMAT

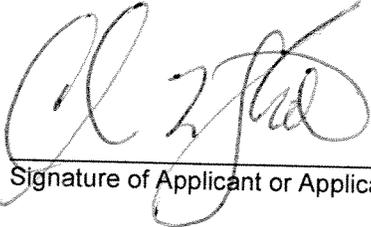
Is any of the information included as part of the notification available in digital format (i.e., CD, DVD, etc.)?

Yes (Please enclose the information via digital media with the completed notification form)

No

17. SIGNATURE

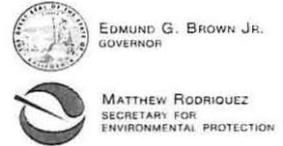
I hereby certify that to the best of my knowledge the information in this notification is true and correct and that I am authorized to sign this notification as, or on behalf of, the applicant. I understand that if any information in this notification is found to be untrue or incorrect, the Department may suspend processing this notification or suspend or revoke any draft or final Lake or Streambed Alteration Agreement issued pursuant to this notification. I understand also that if any information in this notification is found to be untrue or incorrect and the project described in this notification has already begun, I and/or the applicant may be subject to civil or criminal prosecution. I understand that this notification applies only to the project(s) described herein and that I and/or the applicant may be subject to civil or criminal prosecution for undertaking any project not described herein unless the Department has been separately notified of that project in accordance with Fish and Game Code section 1602 or 1611.

 Signed for

Signature of Applicant or Applicant's Authorized Representative

6.8.12
Date

Christopher T Stacks Jeffery Jensen
Print Name



Central Valley Regional Water Quality Control Board

21 December 2012

Jason Mac
California Department of Transportation, District 4
111 Grand Avenue
Oakland, CA 94612

CERTIFIED MAIL
7011 2970 0003 8939 7318

CLEAN WATER ACT §401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION; CALIFORNIA DEPARTMENT OF TRANSPORTATION, SOLANO STATE ROUTE 12 SHOULDER WIDENING PROJECT (WDID#5A48CR00114), SOLANO COUNTY

This Order responds to your 7 November 2012 application submittal for the Water Quality Certification of a road widening project permanently impacting 0.059 acre and temporarily impacting 0.069 acre of waters of the United States and permanently impacting 0.04 acre and temporarily impacting 0.01 acre of waters of the State.

This Order serves as certification of the United States Army Corps of Engineers' Nationwide Permit #14 (SPK #2009-00309) under § 401 of the Clean Water Act, and a Waste Discharge Requirement under the Porter-Cologne Water Quality Control Act.

WATER QUALITY CERTIFICATION STANDARD CONDITIONS:

1. This Order serves as a Water Quality Certification (Certification) action that is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to § 13330 of the California Water Code and § 3867 of the California Code of Regulations.
2. This Certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent Certification application was filed pursuant to § 3855(b) of the California Code of Regulations, and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. The validity of any non-denial Certification action shall be conditioned upon total payment of the full fee required under § 3833 of the California Code of Regulations, unless otherwise stated in writing by the certifying agency.

4. This Certification is valid for the duration of the described project. This Certification is no longer valid if the project (as currently described) is modified, or coverage under § 404 of the Clean Water Act has expired.
5. All reports, notices, or other documents required by this Certification or requested by the Central Valley Regional Water Quality Control Board (Central Valley Water Board) shall be signed by a person described below or by a duly authorized representative of that person.
 - (a) For a corporation: by a responsible corporate officer such as (1) a president, secretary, treasurer, or vice president of the corporation in charge of a principal business function; (2) any other person who performs similar policy or decision-making functions for the corporation; or (3) the manager of one or more manufacturing, production, or operating facilities if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - (b) For a partnership or sole proprietorship: by a general partner or the proprietor.
 - (c) For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.
6. Any person signing a document under Standard Condition number 5 shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

TECHNICAL CERTIFICATION CONDITIONS:

In addition to the above standard conditions, the California Department of Transportation shall satisfy the following:

1. The California Department of Transportation shall notify the Central Valley Water Board in writing 7 days in advance of the start of any work within waters of the United States and State. The notification shall include the name of the project and the WDID number, and shall be sent to the Central Valley Water Board Contact indicated in this Certification.
2. Except for activities permitted by the United States Army Corps of Engineers under § 404 of the Clean Water Act soil, silt, or other organic materials shall not be placed where such materials could pass into surface water or surface water drainage courses.

3. The California Department of Transportation shall maintain a copy of this Certification and supporting documentation (Project Information Sheet) at the Project site during construction for review by site personnel and agencies. All personnel (employees, contractors, and subcontractors) performing work on the proposed project shall be adequately informed and trained regarding the conditions of this Certification.
4. The California Department of Transportation shall perform surface water sampling: 1) when performing any in-water work; 2) in the event that project activities result in any materials reaching surface waters; or 3) when any activities result in the creation of a visible plume in surface waters. The monitoring requirements in Table 1 shall be conducted upstream out of the influence of the project, and **300 feet downstream** of the work area. The sampling frequency may be modified for certain projects with written approval from Central Valley Water Board staff.

Table 1:

Parameter	Unit	Type of Sample	Minimum Sampling Frequency	Required Analytical Test Method
Turbidity	NTU	Grab ⁽¹⁾	Every 4 hours during in-water work	(2)
Settleable Material	mL/L	Grab ⁽¹⁾	Every 4 hours during in-water work	(2)
Visible construction related pollutants ⁽³⁾	Observations	Visual Inspections	Continuous throughout the construction period	—
pH ⁽⁴⁾	Standard Units	Grab ⁽¹⁾	Every 4 hours during in-water work	(2)

⁽¹⁾ Grab sample shall not be collected at the same time each day to get a complete representation of variations in the receiving water.

⁽²⁾ Pollutants shall be analyzed using the analytical methods described in 40 Code of Federal Regulations Part 136; where no methods are specified for a given pollutant, method shall be approved by Central Valley Water Board staff.

⁽³⁾ Visible construction-related pollutants include oil, grease, foam, fuel, petroleum products, and construction-related, excavated, organic or earthen materials.

⁽⁴⁾ pH water quality monitoring is required due to the use of concrete and/or cement slurry within the project area.

A surface water monitoring report shall be submitted to the Central Valley Water Board Contact indicated in this Certification within two weeks of initiation of sampling and every two weeks thereafter. **In reporting the monitoring data, the California Department of Transportation shall arrange the data in tabular form so that the sampling locations, date, constituents, and concentrations are readily discernible. The data shall be summarized in such a manner to illustrate clearly whether the project complies with Certification requirements.** The report shall include surface water sampling results, visual observations,

and identification of the turbidity increase in the receiving water applicable to the natural turbidity conditions specified in the turbidity criteria below.

5. The Central Valley Water Board adopted a *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins*, Fourth Edition, revised October 2011 (Basin Plan) that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. Turbidity, settleable matter, and pH limits are based on water quality objectives contained in the Basin Plan and are part of this Certification as follows:

A. Activities shall not cause turbidity increases in surface water to exceed:

- i. where natural turbidity is less than 1 Nephelometric Turbidity Units (NTUs), controllable factors shall not cause downstream turbidity to exceed 2 NTUs;
- ii. where natural turbidity is between 1 and 5 NTUs, increases shall not exceed 1 NTU;
- iii. where natural turbidity is between 5 and 50 NTUs, increases shall not exceed 20 percent;
- iv. where natural turbidity is between 50 and 100 NTUs, increases shall not exceed 10 NTUs; and
- v. where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent.

Except that these limits will be eased during in-water working periods to allow a turbidity increase of 15 NTUs over background turbidity. In determining compliance with the above limits, appropriate averaging periods may be applied provided that beneficial uses will be fully protected. Averaging periods may only be used with prior approval of the Central Valley Water Board staff.

B. Activities shall not cause settleable matter to exceed 0.1 mL/L in surface waters as measured in surface waters within 300 feet downstream of the project.

C. Activities shall not cause pH to be depressed below 6.5 nor raised above 8.5 in surface water.

6. The California Department of Transportation shall notify the Central Valley Water Board immediately if the above criteria for turbidity, pH, and settleable matter or other water quality objectives are exceeded.
7. The discharge of petroleum products or other excavated materials to surface water is prohibited. Activities shall not cause visible oil, grease, or foam in the receiving water. The California Department of Transportation shall notify the Central Valley Water Board immediately of any spill of petroleum products or other organic or earthen materials.
8. The California Department of Transportation shall comply with all California Department of Fish and Game requirements, including but not limited to those requirements described in Lake or Streambed Alteration Agreement No. 1600-2012-0213-R3.

9. The California Department of Transportation shall comply with all United States Fish and Wildlife Service requirements, including but not limited to those requirements described in Biological Opinion 81420-2009-F-0152-4, provided to the United States Army Corps of Engineers, dated 30 April 2010.
10. The use of netting material (e.g., monofilament-based erosion blankets) that could trap aquatic dependent wildlife is prohibited within the project area. (Figure 1 and Figure 2)
11. All temporarily affected areas will be restored to pre-construction contours and conditions upon completion of construction activities.
12. All areas disturbed by project activities shall be protected from washout or erosion.
13. In-stream work will occur during periods of low flow and no precipitation.
14. This Certification does not allow permanent water diversion of flow from the receiving water. This Certification is invalid if any water is permanently diverted as a part of the project.
15. Refueling of equipment within the floodplain or within 300 feet of the waterway is prohibited. If critical equipment must be refueled within 300 feet of the waterway, spill prevention and countermeasures must be implemented to avoid spills. Refueling areas shall be provided with secondary containment including drip pans and/or placement of absorbent material. No hazardous materials, pesticides, fuels, lubricants, oils, hydraulic fluids, or other construction-related potentially hazardous substances should be stored within a floodplain or within 300 feet of a waterway. The California Department of Transportation must perform frequent inspections of construction equipment prior to utilizing it near surface waters to ensure leaks from the equipment are not occurring and are not a threat to water quality.
16. The California Department of Transportation shall develop and maintain onsite a project-specific Spill Prevention, Containment and Cleanup Plan outlining the practices to prevent, minimize, and/or clean up potential spills during construction of the project. The Plan must detail the project elements, construction equipment types and location, access and staging and construction sequence. The Plan must also address the potential of responding to a spill or prevention of spills occurring within the project site.
17. If temporary surface water diversions and/or dewatering are anticipated, the California Department of Transportation shall develop and maintain on-site a Surface Water Diversion and/or Dewatering Plan(s). The Plan(s) shall include the proposed method and duration of diversion activities. The Surface Water Diversion and/or Dewatering Plan(s) must be consistent with this Certification.
18. When work in a flowing stream is unavoidable and any dam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream, to maintain beneficial uses of waters of the State below the dam. Construction, dewatering, and removal of temporary cofferdams shall not violate Technical Certification Condition 5 of this Certification.

19. Any temporary dam or other artificial obstruction constructed shall only be built from clean materials such as sandbags, gravel bags, water dams, or clean/washed gravel which will cause little or no siltation. Stream flow shall be temporarily diverted using gravity flow through temporary culverts/pipes or pumped around the work site with the use of hoses.
20. During construction, silt fencing, straw wattles, or other effective management practices must be used along the construction zone to minimize soil or sediment along the embankments from migrating into the waters of the United States and State.
21. Raw cement, concrete (or washing thereof), asphalt, drilling fluids, lubricants, paints, coating material, oil, petroleum products, or any other substances which could be hazardous to fish and wildlife resulting from or disturbed by project-related activities, shall be prevented from contaminating the soil and/or entering waters of the United States and State.
22. Concrete must completely be cured before coming into contact with waters of the United States and State. Surface water that contacts wet concrete must be pumped out and disposed of at an appropriate off-site commercial facility which is authorized to accept concrete wastes.
23. All materials resulting from the project shall be removed from the site and disposed of properly.
24. If unanticipated discharges to the waters of the United States and State, and/or soil occur, the California Department of Transportation shall notify the Central Valley Water Board Contact indicated in this Certification in writing within 5 calendar days of occurrence. Unanticipated discharges may include, but are not limited to, any construction materials, hazardous materials, pesticides, fuels, lubricants, oils, hydraulic fluids, raw cement, concrete, asphalt, paint, coating material, drilling fluids, or other construction-related potentially hazardous substances.
25. The California Department of Transportation shall obtain coverage under the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities Order No. 2009-0009-DWQ for discharges to surface waters comprised of storm water associated with construction activity, including, but not limited to, demolition, clearing, grading, excavation, and other land disturbance activities of one or more acres, or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres.
26. The Conditions in this Certification are based on the information in the attached "Project Information Sheet." If the actual project, as described in the attached Project Information Sheet, is modified or changed, this Certification is no longer valid until amended by the Central Valley Water Board.

27. The California Department of Transportation shall implement each of the mitigation measures specified in the approved Negative Declaration for the project, as they pertain to biology, hydrology and water quality impacts as required by § 21081.6 of the Public Resource Code and CEQA Guidelines, § 15097 of the California Code of Regulations.
28. In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under state and federal law. The applicability of any state law authorizing remedies, penalties, process, or sanctions for the violation or threatened violation constitutes a limitation necessary to ensure compliance with this Certification.
- (a) If the California Department of Transportation or a duly authorized representative of the project fails or refuses to furnish technical or monitoring reports, as required under this Certification, or falsifies any information provided in the monitoring reports, the applicant is subject to civil liability, for each day of violation, and/or criminal liability.
 - (b) In response to a suspected violation of any condition of this Certification, the Central Valley Water Board may require the California Department of Transportation to furnish, under penalty of perjury, any technical or monitoring reports the Central Valley Water Board deems appropriate, provided that the burden, including cost of the reports, shall be in reasonable relationship to the need for the reports and the benefits to be obtained from the reports.
 - (c) The California Department of Transportation shall allow the staff(s) of the Central Valley Water Board, or an authorized representative(s), upon the presentation of credentials and other documents, as may be required by law, to enter the project premises for inspection, including taking photographs and securing copies of project-related records, for the purpose of assuring compliance with this Certification and determining the ecological success of the project.
29. The California Department of Transportation shall provide a Notice of Completion (NOC) no later than 30 days after the project completion. The NOC shall demonstrate that the project has been carried out in accordance with the project's description in the Certification and in any amendments approved. The NOC shall include a map of the project location(s), including final boundaries of any on-site restoration area(s), if appropriate, and representative pre and post construction photographs. Each photograph shall include a descriptive title, date taken, photographic site, and photographic orientation.

CENTRAL VALLEY WATER BOARD CONTACT:

Trevor Cleak, Environmental Scientist
11020 Sun Center Drive #200
Rancho Cordova, CA 95670-6114
tcleak@waterboards.ca.gov
(916) 464-4684

CALIFORNIA ENVIRONMENTAL QUALITY ACT:

The California Department of Transportation is the Lead Agency responsible for compliance with the California Environmental Quality Act for the Solano State Route 12 Shoulder Widening Project pursuant to § 21000 et seq. of the Public Resources Code. The California Department of Transportation certified a Negative Declaration on 31 August 2010 (State Clearinghouse Number 2009022028). The California Department of Transportation filed a Notice of Determination with the State Clearinghouse on 27 April 2011.

The Central Valley Water Board is a responsible agency for the project. The Central Valley Water Board has determined that the Negative Declaration is in accordance with the requirements of the California Environmental Quality Act and is valid pursuant § 21167.3(b) of the Public Resources Code.

WATER QUALITY CERTIFICATION:

I hereby issue an Order certifying that any discharge from the California Department of Transportation, Solano State Route 12 Shoulder Widening Project (WDID#5A48CR00114) will comply with the applicable provisions of § 301 ("Effluent Limitations"), § 302 ("Water Quality Related Effluent Limitations"), § 303 ("Water Quality Standards and Implementation Plans"), § 306 ("National Standards of Performance"), and § 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Resources Control Board Water Quality Order No. 2003-0017 DWQ "Statewide General Waste Discharge Requirements For Dredged Or Fill Discharges That Have Received State Water Quality Certification (General WDRs)".

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in compliance with the conditions of this Certification, the California Department of Transportation's application package, and the attached Project Information Sheet, and (b) compliance with all applicable requirements of the *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins*, Fourth Edition, revised October 2011.



Pamela C. Creedon
Executive Officer

Enclosure: Project Information

Attachment: Figure 1-Project Location Map (Segment A)
Figure 2-Project Location Map (Segment B)

cc: Distribution List, page 16

PROJECT INFORMATION SHEET

Application Date: 7 November 2012

Applicant: Jason Mac
California Department of Transportation, District 4
111 Grand Avenue
Oakland, CA 94612

Applicant Representatives: Cyrus Vafai
California Department of Transportation, District 4
111 Grand Avenue
Oakland, CA 94612

Project Name: Solano State Route 12 Shoulder Widening Project (Project)

Application Number: WDID#5A48CR00114

Type of Project: Road Widening

Timeframe of Project Implementation: January 2013 through January 2016

Project Location: Section 14-17, Township 2 North, Range 4 East, MDB&M.
Latitude: 38°11'00"N and Longitude: 121°16'08" W

County: Solano County

Receiving Water(s) (hydrologic unit): Wells Creek, Sacramento Joaquin Hydrologic Basin,
Valley Putah-Cache Hydrologic Unit #511.10, Elmira HA

Water Body Type: Wetland, Agricultural Ditch

Designated Beneficial Uses: The *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins*, Fourth Edition, revised October 2011 (Basin Plan) has designated beneficial uses for surface and ground waters within the region. Beneficial uses that could be impacted by the project include, but are not limited to: Municipal and Domestic Water Supply (MUN); Agricultural Supply (AGR); Industrial Supply (IND); Hydropower Generation (POW); Groundwater Recharge (GWR); Water Contact Recreation (REC-1); Non-Contact Water Recreation (REC-2); Warm Freshwater Habitat (WARM); Cold Freshwater Habitat (COLD); Preservation of Biological Habitats of Special Significance (BIOL); Rare, Threatened, or Endangered Species (RARE); Migration of Aquatic Organisms (MIGR); Spawning, Reproduction, and/or Early Development (SPWN); and Wildlife Habitat (WILD). A comprehensive and specific list of the Beneficial Uses applicable for the project area can be found at http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/index.shtml.

303(d) List of Water Quality Limited Segments: Well Creek is the receiving water for the Project. Well Creek is not listed on the 303(d) list. The project will not impact an already impaired water body. The most recent list of approved water quality limited segments can be found at: http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml.

Project Description: The Project involves modifications to State Route 12 from west of Liberty Island Road to west of Currie Road to allow for standard shoulder widths, clear recovery zone, left-turn pockets and improvements to vertical sight distances. The Project is located 3 miles northwest of Rio Vista, in Solano County.

Liberty Island Road to Azevedo Road (Segment A): Within a 1.1 mile stretch of State Route 12, between Liberty Island Road and Azevedo Road in Solano County, activities will include widening the existing shoulder on each side of the roadway to an eight foot standard width. Widening will require tree removal and extension of the box culvert at Well Creek. Widening will also require modifications of existing drainage features, including culverts and roadside ditches. Drainage improvements in Segment A include the replacement of six existing culverts and the extension of one existing culvert (Table 1).

Azevedo Road to Currie Road (Segment B): Drainage improvements in Segment B will include installation of three new culverts, replacement of four existing culverts, and extensions of one existing culvert located on a unnamed ephemeral drainage near McClosky Road (Table 1).

Table 1-Culverts to be Extended, Installed, Replaced or Relocated:

Segment	Station	Post Mile	Culvert ID**	Existing Type*	Existing Size	Repair Method
A	106+50	20.59	C-0	None	None	Install 12-inch APC
A	107+00	20.60	C-2	CMP	18"	Install 18-inch APC, remove 18-inch CMP
A	111+03	20.68	C-3	RCP	18"	Install 24-inch APC, remove 18-inch RCP
A	123+95	20.92	C-5	CMP	12"	Install 18-inch APC, remove 12-inch CMP
A	133+00	21.09	C-6	None	None	Install two 24-inch APC
A	134+88	21.13	C-7	RCB	10"x6"	Extend south and north
A	138+00	21.27	C-8	RCP	12"	Install 12-inch APC, remove 12-inch RCP

Segment	Station	Post Mile	Culvert ID**	Existing Type*	Existing Size	Repair Method
B	104+54 N	22.67	C-10	PPC	18"	Install 18-inch APC, remove 18-inch CMP
B	104+50 S	22.67	C-11	CMP	18"	Install 18-inch APC, remove 18-inch CMP
B	114+50	22.86	C-12	RCP	10"	Install 12-inch APC, remove 10-inch RCP
B	117+05	22.91	C-13	RCB	Double 10"x6"	Extend south and north
B	124+52	23.04	C-14	CMP	16"	Install 18-inch APC, remove 16-inch CMP
B	132+87	23.21	C-15	RCP	36"	Install 36-inch APC, remove 36-inch RCP
B	145+00	23.44	C-17	CMP	18"	Install 18-inch APC, remove 12-inch CMP

*APC =alternative pipe culvert; CMP=corrugated metal pipe; CSP=corrugated steel pipe; PPC=plastic pipe culvert; RCB=reinforced concrete box; RCP=reinforced concrete pipe

**Culverts are shown on Figures 1 and 2.

Box culvert extension will involve the placement of false work and concrete forms in the unnamed ephemeral drainage at McClosky Road and in Wells Creek. The box culverts extension will require the use of slurry and/or wet concrete and asphalt. This work will be completed between 15 May and 15 October of each construction year. Heavy equipment will not be staged within the unnamed ephemeral drainage at McClosky Road and within Wells Creek.

The Project will result in 0.069 acre of temporary impacts and 0.059 acre of permanent impacts to waters of the United States, and 0.01 acre of temporary impacts and 0.04 acre of permanent impacts to waters of the State.

Preliminary Water Quality Concerns: Construction activities may impact surface waters with increased turbidity and settleable matter.

Proposed Mitigation to Address Concerns: The California Department of Transportation will implement Best Management Practices to control sedimentation and erosion. All temporary affected areas will be restored to pre-construction contours and conditions upon completion of construction activities. The California Department of Transportation will conduct turbidity and

settleable matter testing during in-water work, stopping work if Basin Plan criteria are exceeded or are observed.

Excavation/Fill Area: Approximately 122.15 cubic yards of rock slope protection, native soil, alternative pipe culvert and concrete will be placed into 0.01 acre of waters of the United States and waters of the State.

Dredge Volume: None

United States Army Corps of Engineers File Number: SPK #2009-00309

United States Army Corps of Engineers Permit Type: Nationwide Permit #14

California Department of Fish and Game Lake or Streambed Alteration Agreement: 1600-2012-0213-R3.

Possible Listed Species: California tiger salamander

Status of CEQA Compliance: The California Department of Transportation approved a Negative Declaration on 31 August 2010. The California Department of Transportation filed a Notice of Determination with the State Clearinghouse on 27 April 2011 (State Clearinghouse Number 2009022028).

The Central Valley Water Board filed a Notice of Determination with the State Clearinghouse as a responsible agency within 5 days of the date of this Certification.

Compensatory Mitigation: The Central Valley Water Board is not requesting compensatory mitigation for the Project.

Application Fee Provided: Total fees of \$ 1,431.00 have been submitted to the Central Valley Water Board as required by § 3833(b)(3)(A) and § 2200(a)(3) of the California Code of Regulations.

Figure 1 – Project Location (Segment A)

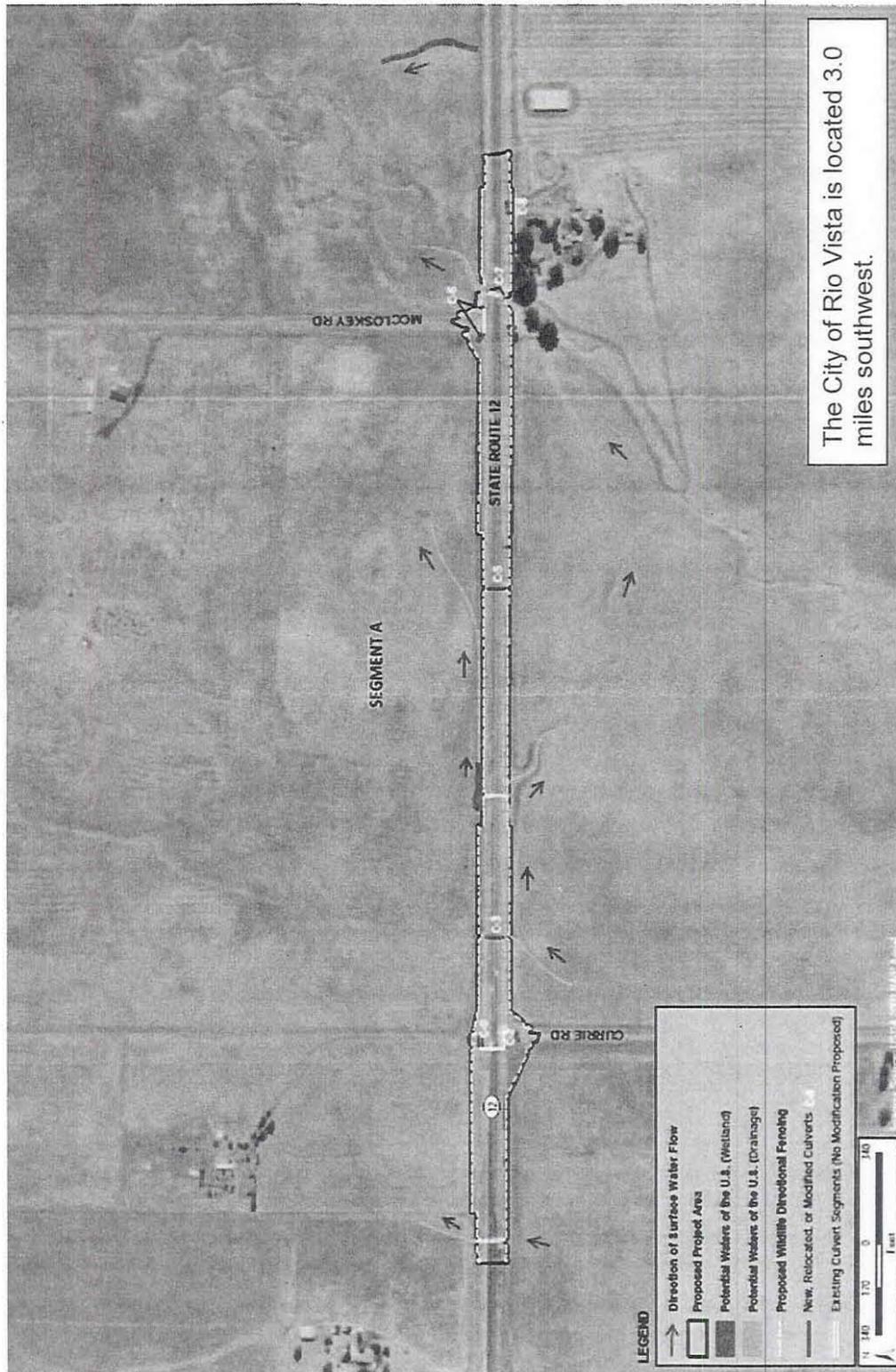
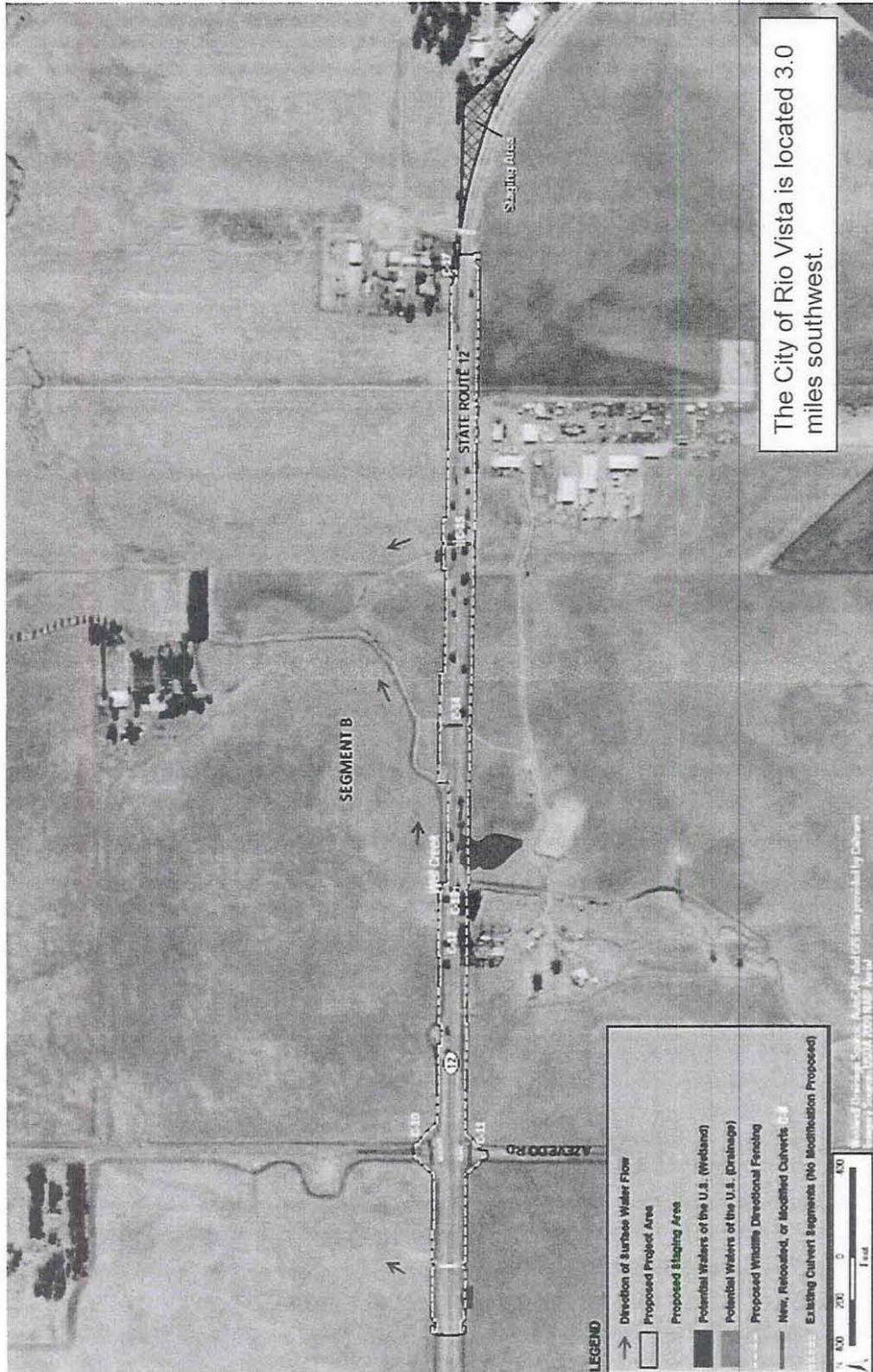


Figure 2- Project Location (Segment B)



DISTRIBUTION LIST

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