

**DEPARTMENT OF TRANSPORTATION**

DISTRICT 4  
P.O. BOX 23660  
OAKLAND, CA 94623-0660  
PHONE (510) 286-5900  
FAX (510) 286-6301  
TTY 711  
www.dot.ca.gov



*Serious Drought.  
Help save water!*

**RECEIVED**

JAN 28 2015

TOWN OF FAIRFAX

January 22, 2014

**COPY**

Wayne Bush  
142 Bolinas Road  
Fairfax, CA 94930

Your ref: BRLO – 5277 (025) Meadow Way Bridge Replacement

Dear Mr. Bush:

Our office is in receipt of the Cultural Resources assessment on the Section 106 requirements for the Meadow Way Bridge Replacement project and has signed the Preliminary Environmental Studies (PES) Form. Similarly, the District Local Assistance Engineer (DLAE) and the Environmental Planner Designee have affixed their signatures to the document. The environmental scoping is therefore complete.

The following studies are required as per the PES:

Studies needed:

1. Equipment Staging Technical Memorandum
2. Traffic - Traffic Technical Memorandum to include:
  - a. Address traffic handling during construction in regards to pedestrian, cyclist, transit, and emergency service access
  - b. Briefly describe reason new bridge will remain a one lane bridge
3. Noise – Noise Technical Memorandum (construction related)
3. Air Quality – send email from MTC which confirms Task Force PM 2.5 finding
4. Hazardous Materials – Hazardous Materials Technical Memorandum include in specification to test and properly dispose structure creosote-soaked timber
5. Water Quality/Resources – BMPs include in NES/BA
6. Floodplain – Location Hydraulic Study and Summary Floodplain Encroachment
7. Biological Resources – Natural Environment Study & if needed a Biological Assessment.  
NES to include:
  - a. Wetlands(if needed)
  - b. Tree removal/trimming information, Describe the number, size, and type of tree removed/trimmed & replaced with if any consistency with your local tree ordinance and in compliance with the “Migratory Bird Treaty Act”
  - c. Construction staging and access

Mr. Wayne Bush  
January 22, 2015  
Page 2

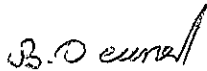
- d. Water Quality (BMPs)  
Note: NES/BA report must reach a conclusion about the effects on federal threatened or endangered species/habitat using U.S. Fish Wildlife Service and National Marine Fisheries Service consultations language.
8. Visual Resources – Visual Resources Technical Memorandum (tree removal) disclose the change
9. Land Use and Community Impacts Technical Memorandum to include:
  - a. Public outreach & outcome/consequence information (removal of existing timber bridge)
  - b. Right of way information (explain what is on the parcel, how or where will your right of entry be, how will it affect the existing land use)
10. Cultural Resources – See attached copy for requirements

Permits – the permit process is separate to environmental clearance once permits are received please provide copies

Please prepare those studies at your earliest convenience and submit them to our office for review.

If you have any questions regarding this letter, please contact Hugo Ahumada at (510) 622-8790 or email [hugo\\_ahumada@dot.ca.gov](mailto:hugo_ahumada@dot.ca.gov).

Sincerely,



Boris Deunert, Ph.D.  
Senior Environmental Planner  
Office of Local Assistance

Enclosures

c: Office of Local Assistance files

## Memorandum

*Serious Drought.  
Help save water!*

To: BORIS DEUNERT  
Senior Environmental Planner  
Office of Local Assistance, District 4

Date: January 20, 2015

Attn: Hugo Ahumada, Associate Environmental Planner

File: 04-MRN-0-FRFX  
STPLZ 5277 (025)  
Town of Fairfax  
Meadow Way Bridge  
Replacement

From: MAUREEN ZOGG *mz*  
Local Assistance Archaeologist  
Office of Local Assistance, District 4

Subject: Section 106 review of the Meadow Way Bridge Replacement project in the Town of Fairfax, Marin County, California.

The Town of Fairfax plans to replace the existing functionally obsolete bridge which carries Meadow Way over San Anselmo Creek. Construction will be staged to enable the continued use of the old bridge while the new structure is being installed, after which the old bridge will be removed through the use of a crane. Approach embankments and the creek bed will be excavated, slopes contoured, rock slope protection (RSP) placed, and temporary roadway approaches, falsework, concrete barrier railings, retaining walls and sheetpiles will be installed. Some utility relocation may be necessary. The maximum depth of the project work will be 6 feet.

The California Department of Transportation (Caltrans), acting as the lead agency under the delegated authority of the Federal Highway Administration (FHWA), is providing the project oversight as federal funds are involved. Project documentation was reviewed by Caltrans' Office of Local Assistance Professionally Qualified Staff (PQS) Maureen Zogg, Co-Principal Investigator—Prehistoric Archaeology, in compliance with the 2014 *First Amended Programmatic Agreement Among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and the California Department of Transportation Regarding Compliance with Section 106 of the National Historic Preservation Act, as it Pertains to the Administration of the Federal-Aid Highway Program in California* (Section 106 PA). A copy of the PA can be found at the Division of Environmental Analysis website: <http://www.dot.ca.gov/hq/env/cultural/index.htm>.

This undertaking has the potential to affect historic properties; therefore the following documents should be prepared for compliance with Section 106 of the PA. Guidance for completing these documents may be found online at Caltrans' Standard Environmental Reference website: <http://www.dot.ca.gov/ser/vol2/vol2.htm>.

### Area of Potential Effects (APE) Map

This map depicts the area that will be affected by the project, including staging areas, utility relocation, temporary bridges, right-of-way acquisition, and temporary construction easements.

*“Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability”*

The map should be plotted on an aerial photographic or other base at a scale of approximately 1"=200' or greater. A maximum size of 11"x17" is preferred, using multiple sheets as necessary for inclusion in the required reports listed below. Typically, two APE lines are depicted: the Archaeological APE, which includes all areas of direct impact, and the Architectural APE, which will additionally include the entirety of all parcels from which there will be a right-of-way acquisition or temporary easement for construction or detour. The APE map should have a title block that includes the project name, federal ID number, and signature lines for the Caltrans PQS and Local Assistance Engineer, as well as the local agency representative. The APE map should be transmitted to Caltrans for signatures prior to the completion of the HPSR. A signed copy of the map will then be returned to the agency or its consultant for inclusion in the reports.

#### Historic Property Survey Report (HPSR)

The HPSR serves as a summary report to which the Archaeological Survey Report and Historic Resource Evaluation Report are attached. The HPSR also documents the consultation with interested parties, particularly Native American groups, and presents the project description and mapping. The standard HPSR form is available online at <http://www.dot.ca.gov/hq/env/cultural/index.htm#template>.

#### Historic Resource Evaluation Report (HRER)

This report provides a historic context for the area and evaluates buildings, structures, objects, landscapes, and districts within the Architectural APE. All resources that are not exempt from evaluation under Attachment 4 of the PA should be documented and evaluated for eligibility for listing on the National Register of Historic Places. This report must be completed by a professionally-qualified architectural historian as described in Attachment 1 of the PA. If there are no such resources present, this report will not be needed.

#### Archaeological Survey Report (ASR)

This report is needed to document the studies undertaken to demonstrate the presence or absence of archaeological resources within the Archaeological APE. If resources are identified, they must be evaluated for their eligibility for listing on the National Register of Historic Places. A professionally-qualified archaeologist, as described in Attachment I of the PA, must complete this report. If there are no such resources present, the ASR Short Form for District 4 Local Assistance Projects may be used.

Please note that the assessments may change if there are alterations made to the proposed activities or the project boundaries. Draft APE map and documents may be forwarded for review as they are produced. If you have any questions about this memo or about the Section 106 compliance process, please contact Maureen Zogg at (510) 622-8767, e-mail [maureen\\_zogg@dot.ca.gov](mailto:maureen_zogg@dot.ca.gov).

cc: OLA Files

F.R. 01/06/15

Exhibit 6-A Preliminary Environmental Study (PES) Form

MEADOW WAY BRIDGE REPLACEMENT

Federal Project No.: BRLO-5277(025) Final Design: July 2016  
(Federal Program Prefix-Project No., Agreement No.) (Expected Start Date)

To: Sylvia Fung From: Town of Fairfax  
(District Local Assistance Engineer) (Local Agency)  
District 04 Wayne Bush, PE (415-302-7766)  
(District) (Project Manager's Name and Telephone No.)  
111 Grand Avenue, PO Box 32660 142 Bolinas Road  
Oakland, CA 94623-0660 Fairfax, CA 94930  
(Address) (Address)  
sylvia.fung@dot.ca.gov wtbush01@gmail.com  
(E-mail Address) (E-mail Address)

Is this Project "ON" the State Highway System?  Yes  No IF YES, STOP HERE and contact the District Local Assistance Engineer regarding the completion of other environmental documentation.

Federal State Transportation Improvement Program (FSTIP) <http://www.dot.ca.gov/hq/transprog/fedpgm.htm> (Currently Adopted Plan Date) (Page No. attach to this form)

Programming for FSTIP:	Preliminary Engineering	Right of Way	Construction
2014/2015	\$ 914,700	\$ 0	2017/2018 \$ 2,436,000
<small>(Fiscal Year)</small>	<small>(Dollars)</small>	<small>(Fiscal Year)</small>	<small>(Dollars)</small>

Project Description as Shown in RTP and FSTIP: BRIDGE NO. 27C0008, MEADOW WAY, OVER SAN ANSELMO CREEK, IN FAIRFAX. Replace FO 1 lane timber bridge with wider 1 lane concrete bridge. 4/5/2010: Toll Credits programmed for Con.

Detailed Project Description: (Describe the following, as applicable: purpose and need, project location and limits, required right of way acquisition, proposed facilities, staging areas, disposal and borrow sites, construction activities, and construction access.)

This application is for Meadow Way Bridge over San Anselmo Creek (Br. No 27C-0008). Please see the detailed project description, picture, Location Map, Regional Map, As-Built General Plan, and Project Construction Stages Maps attached at the end.

(Continue description on "Notes" sheet, last page of this Exhibit, if necessary)

Preliminary Design Information:

Does the project involve any of the following? Please check the appropriate boxes and delineate on an attached map, plan, or layout including any additional pertinent information.

EQUIPMENT STAGING TECH. MEMO  
 CO OF MARRIAGE HAS JURISDICTION  
 OVER CR CREEK & PRIVATE PROPERTY

<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Widen existing roadway</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Increase number of through lanes</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> New alignment</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Capacity increasing—other (e.g., channelization)</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Realignment</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Ramp or street closure</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Bridge work</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Vegetation removal</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Tree removal</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Ground disturbance</p> <p><input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Road cut/fill</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Excavation: anticipated maximum depth <u>6 feet</u></p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Drainage/culverts</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Flooding protection</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Stream channel work</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Pile driving</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Demolition</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Easements</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> Equipment staging</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Temporary access road/detour</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Utility relocation</p> <p><input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Right of way acquisition (if yes, attach map with APN) PRIVATE RIGHT OF ENTRY &amp; ENCROACHMENT</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Disposal/borrow sites</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Part of larger adjacent project</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Railroad</p>
---	---	--

5 FEET  
6 INCH  
WIDER

Required Attachments:

- Regional map
  - Project location map
  - Project footprint map (existing/proposed right of way)
  - Engineering drawings (existing and proposed cross sections), if available
  - Borrow/disposal site location map, if applicable N/A
  - Notes to support the conclusions of this checklist/project description continuation page (attached)
- (Note: all maps (except project location map and regional maps) should be consistent with the project description (minimum scale: 1" = 200').)

Examine the project for potential effects on the environment, direct or indirect and answer the following questions. The "construction area," as specified below, includes all areas of ground disturbance associated with the project, including staging and stockpiling areas and temporary access roads.

Each answer must be briefly documented on the "Notes" pages at the end of the PES Form.

A. Potential Environmental Effects	Yes	To Be Determined	No
<b>General</b>			
1. Will the project require future construction to fully utilize the design capabilities included in the proposed project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Will the project generate public controversy?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Noise</b>			
3. Is the project a Type I project as defined in 23 CFR 772.5(h); "construction on new location or the physical alteration of an existing highway, which significantly changes either the horizontal or vertical alignment or increases the number of through-traffic lanes"?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Does the project have the potential for adverse construction-related noise impact (such as related to pile driving)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Air Quality</b>			
5. Is the project in a NAAQS non-attainment or maintenance area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the project exempt from the requirement that a conformity determination be made? (If "Yes," state which conformity exemption in 40 CFR 93.126, Table 2 applies): Projects that correct, improve, or eliminate a hazardous location or feature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the project exempt from regional conformity? (If "Yes," state which conformity exemption in 40 CFR 93.127, Table 3 applies):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. If project is not exempt from regional conformity, (If "No" on Question #7)			
Is project in a metropolitan non-attainment/maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is project in an isolated rural non-attainment area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is project in a CO, PM10 and/or PM2.5 non-attainment/maintenance area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hazardous Materials/Hazardous Waste</b>			
9. Is there potential for hazardous materials (including underground or aboveground tanks, etc.) and/or hazardous waste (including oil/water separators, waste oil, asbestos-containing material, lead-based paint, ADL, etc.) within or immediately adjacent to the construction area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Water Quality/Resources</b>			
10. Does the project have the potential to impact water resources (rivers, streams, bays, inlets, lakes, drainage sloughs) within or immediately adjacent to the project area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Is the project within a designated sole-source aquifer?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Coastal Zone</b>			
12. Is the project within the State Coastal Zone, San Francisco Bay, or Suisun Marsh?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Floodplain</b>			
13. Is the construction area located within a regulatory floodway or within the base floodplain (100-year elevation of a watercourse or lake)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Wild and Scenic Rivers</b>			
14. Is the project within or immediately adjacent to a Wild and Scenic River System?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Biological Resources</b>			
15. Is there a potential for federally listed threatened or endangered species, or their critical habitat or essential fish habitat to occur within or adjacent to the construction area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Does the project have the potential to directly or indirectly affect migratory birds, or their nests or eggs (such as vegetation removal, box culvert replacement/repair, bridge work, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17. Is there a potential for wetlands to occur within or adjacent to the construction area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

18. Is there a potential for agricultural wetlands to occur within or adjacent to the construction area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19. Is there a potential for the introduction or spread of invasive plant species?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Sections 4(f) and 6(f)</b>			
20. Are there any historic sites or publicly owned public parks, recreation areas, wildlife or waterfowl refuges (Section 4(f)) within or immediately adjacent to the construction area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21. Does the project have the potential to affect properties acquired or improved with Land and Water Conservation Fund Act (Section 6(f)) funds?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Visual Resources</b>			
22. Does the project have the potential to affect any visual or scenic resources?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Relocation Impacts</b>			
23. Will the project require the relocation of residential or business properties?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Land Use, Community, and Farmland Impacts</b>			
24. Will the project require any right of way, including partial or full takes? Consider construction easements and utility relocations.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
25. Is the project inconsistent with plans and goals adopted by the community?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26. Does the project have the potential to divide or disrupt neighborhoods/communities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27. Does the project have the potential to disproportionately affect low-income and minority populations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28. Will the project require the relocation of public utilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29. Will the project affect access to properties or roadways?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30. Will the project involve changes in access control to the State Highway System (SHS)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31. Will the project involve the use of a temporary road, detour, or ramp closure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32. Will the project reduce available parking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33. Will the project construction encroach on state or federal lands?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
34. Will the project convert any farmland to a different use or impact any farmlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Cultural Resources</b>			
35. Is there National Register listed, or potentially eligible historic properties, or archaeological resources within or immediately adjacent to the construction area? (Note: Caltrans PQS answers question #35)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
36. Is the project adjacent to, or would it encroach on Tribal land?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

For Sections B, C, and D, check appropriate box to indicate required technical studies, coordination, permits, or approvals.

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/Approvals
<input checked="" type="checkbox"/> <b>Traffic</b> Check one: <input type="checkbox"/> Traffic Study <input checked="" type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	TRAFFIC HANDLING DURING CONSTRUCTION INCLUDE PED/BIKE/TRANSIT/EMERGENCY SVCS. - BRIEFLY DESCRIBE REASON NEW BRIDGE REMAIN SAME <input type="checkbox"/> Caltrans <input checked="" type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval <input checked="" type="checkbox"/> Approval W/ ONE LANE <input type="checkbox"/> Approval
<input checked="" type="checkbox"/> <b>Noise</b> Check as applicable: <input type="checkbox"/> Traffic Related <input checked="" type="checkbox"/> Construction Related Check one: <input type="checkbox"/> Noise Study Report <input type="checkbox"/> NADR <input checked="" type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	CLOSEST SENSITIVE RECEPTORS FEW FEET AWAY; FOUR CORNERS OF BRIDGE BRIDGE REMOVED SECTION BY SECTION NO DEMOLITION <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input checked="" type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Approval
<input checked="" type="checkbox"/> <b>Air Quality</b> Check as applicable: <input type="checkbox"/> Traffic Related <input checked="" type="checkbox"/> Construction Related Check one: <input type="checkbox"/> Air Quality Report <input type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	SEND EMAIL FROM MTC WHICH CONFIRMS TASK FORCE PM 2.5 FINDINGS <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> FHWA <input checked="" type="checkbox"/> Caltrans <input checked="" type="checkbox"/> Regional Agency	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Conformity Finding (6005 CEs, EAs, EISs) <input checked="" type="checkbox"/> Conformity Finding (6004 CEs) <input checked="" type="checkbox"/> PM10/PM2.5 Interagency Consultation
<input checked="" type="checkbox"/> <b>Hazardous Materials/                      Hazardous Waste</b> Check as applicable: <input type="checkbox"/> Initial Site Assessment (Phase 1) <input type="checkbox"/> Preliminary Site Assessment (Phase 2) <input type="checkbox"/> Discussion in ED Only ✓ TECH MEMO	STRUCTURE CREOSOTE - SOAKED TIMBER INCLUDE IN SPECS TO TEST AND PROPERLY DISPOSE <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Cal EPA DTSC <input type="checkbox"/> Local Agency	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Review Database <input type="checkbox"/> Review Database
<input checked="" type="checkbox"/> <b>Water Quality/Resources</b> Check as applicable: <input checked="" type="checkbox"/> Water Quality Assess. Report <input type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	BMAPS - HOW TO PREVENT CONSTRUCTION DEBRIS AND/OR TOXIC SUBSTANCE TO ENTER CREEK / DRAINS <input checked="" type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval
<input type="checkbox"/> <b>Sole-Source Aquifer                      (Districts 5, 6 and 11)</b>	<input type="checkbox"/> EPA (S.F. Regional Office)	<input type="checkbox"/> Approval of Analysis in ED
<input type="checkbox"/> <b>Coastal Zone</b>	<input type="checkbox"/> CCC	<input type="checkbox"/> Coastal Zone Consistency Determination

INCLUDE IN NES/BA NO



B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/Approvals
<input checked="" type="checkbox"/> Floodplain		
<i>Check as applicable:</i>		
<input checked="" type="checkbox"/> Location Hydraulic Study	<input checked="" type="checkbox"/> Caltrans	<input checked="" type="checkbox"/> Approval
<input type="checkbox"/> Floodplain Evaluation Report	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
<input checked="" type="checkbox"/> Summary Floodplain Encroachment Report	<input checked="" type="checkbox"/> Caltrans	<input checked="" type="checkbox"/> Approval
	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Only Practicable Alternative Finding
	<input type="checkbox"/> FHWA	<input type="checkbox"/> Approves significant encroachments and concurs in Only Practicable Alternative Findings
<input type="checkbox"/> Wild and Scenic Rivers	<input type="checkbox"/> River Managing Agency	<input type="checkbox"/> Wild and Scenic Rivers Determination
<input checked="" type="checkbox"/> Biological Resources		
<i>Check as applicable:</i>		
<input type="checkbox"/> NES, Minimal Impact	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
<input checked="" type="checkbox"/> NES	<input checked="" type="checkbox"/> Caltrans	<input checked="" type="checkbox"/> Approval
<input checked="" type="checkbox"/> BA	<input checked="" type="checkbox"/> Caltrans	<input checked="" type="checkbox"/> Approves for Consultation
	<input type="checkbox"/> USFWS	<input checked="" type="checkbox"/> Section 7 Informal/Formal Consultation
	<input checked="" type="checkbox"/> NOAA Fisheries	<input checked="" type="checkbox"/> MSA Consultation
<input checked="" type="checkbox"/> EFH Evaluation	<input checked="" type="checkbox"/> NOAA Fisheries	<input checked="" type="checkbox"/> MSA Consultation
<input type="checkbox"/> Bio-Acoustic Evaluation	<input type="checkbox"/> NOAA Fisheries	<input type="checkbox"/> Approval
<input type="checkbox"/> Technical Memorandum	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
<input checked="" type="checkbox"/> Wetlands		
<i>Check as applicable:</i>		
<input checked="" type="checkbox"/> WD and Assessment	<input checked="" type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
	<input checked="" type="checkbox"/> ACOE	<input checked="" type="checkbox"/> Wetland Verification
	<input type="checkbox"/> NRCS	<input type="checkbox"/> Agricultural Wetland Verification
	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Wetlands Only Practicable Alternative Finding
<input type="checkbox"/> Invasive Plants		
<input type="checkbox"/> Discussion in ED Only	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
<input type="checkbox"/> Section 4(f)		
<i>Check as applicable:</i>		
	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Determine Temporary Occupancy
<input type="checkbox"/> De minimis	<input type="checkbox"/> Caltrans	<input type="checkbox"/> De minimis finding
<input type="checkbox"/> Programmatic 4(f) Evaluation Type: _____	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
<input type="checkbox"/> Individual 4(f) Evaluation	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval
	<input type="checkbox"/> Agency with Jurisdiction	
	<input type="checkbox"/> SHPO	
	<input type="checkbox"/> DOI	
	<input type="checkbox"/> HUD	
	<input type="checkbox"/> USDA	

IF NEEDED  
INCLUDE IN  
NES/BA

\* THE REPORT MUST REACH A CONCLUSION ABOUT THE EFFECTS ON FEDERAL THREATENED OR ENDANGERED SPECIES/HABITAT USING USFISH & WILDLIFE AND NMFS CONSULTATION LANGUAGE: "NO EFFECT, NOT LIKELY TO REVERSELY" ETC.

INCLUDE: TREE REMOVAL INFO. DESCRIBE

THE NUMBER, SPEC AND TYPE OF TREES REMOVED/REPLACED IF ANY CONSISTENCY WITH YOUR LOCAL TREE ORDINANCE AND COMPLIANCE W/ THE MIGRATORY BIRD T. ACT - WATER BARRIERS - CONSTRUCTION STAGING & ACCESS

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/Approvals
<input type="checkbox"/> Section 6(f)	<input type="checkbox"/> Agency with Jurisdiction <input type="checkbox"/> NPS <input type="checkbox"/> NPS	<input type="checkbox"/> Determines Consistency with Long-Term Management Plan <input type="checkbox"/> Approves Conversion
<input checked="" type="checkbox"/> <b>Visual Resources</b> Check one: <input checked="" type="checkbox"/> Visual Impact Assessment <input checked="" type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	- TREE REMOVAL - NEW BRIDGE DISCLOSE TITE CHANGE <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval
<input type="checkbox"/> <b>Relocation Impacts</b> Check one: <input type="checkbox"/> Relocation Impact Memo <input type="checkbox"/> Relocation Impact Study <input type="checkbox"/> Relocation Impact Report	<input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval
<input checked="" type="checkbox"/> <b>Land Use and Community Impacts</b> Check one: <input type="checkbox"/> CIA <input checked="" type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	PUBLIC OUTREACH & OUTCOME / CONSEQUENCE INFORMATION - COMMUNITY EXPRESSED INTEREST NOT REMOVAL OF EXISTING TIMBER BRIDGE - NEW BRIDGE WILL NOT HAVE 2 LANES & NO WALKWAY <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval - R.O.W. INFORMATION- <input type="checkbox"/> Approval DESCRIBE YOUR R.O.W. NEEDS. <input type="checkbox"/> Approval EXPLAIN WHAT IS ON PARCEL, HOW OF WATER WILL RIGHT OF ENTRY BE, HOW WILL IT AFFECT EXISTING LAND USE; & POSSIBLE ENCROACHMENT; SO OF MARINS RIGHT OF ENTRY: PRIVATE PROPERTY
<input type="checkbox"/> <b>Construction/Encroachment on State Lands</b> Check as applicable: <input type="checkbox"/> SLC Jurisdiction <input type="checkbox"/> Caltrans Jurisdiction <input type="checkbox"/> SP Jurisdiction	<input type="checkbox"/> SLC <input type="checkbox"/> Caltrans <input type="checkbox"/> SP	<input type="checkbox"/> SLC Lease <input type="checkbox"/> Encroachment Permit <input type="checkbox"/> Encroachment Permit
<input type="checkbox"/> <b>Construction/Encroachment on Federal Lands</b>	<input type="checkbox"/> Federal Agency with Jurisdiction	<input type="checkbox"/> Encroachment Permit
<input type="checkbox"/> <b>Construction/Encroachment On Indian Trust Lands</b>	<input type="checkbox"/> Bureau of Indian Affairs	<input type="checkbox"/> Right of Way Permit
<input type="checkbox"/> <b>Farmlands</b> Check one: <input type="checkbox"/> CIA <input type="checkbox"/> Technical Memorandum <input type="checkbox"/> Discussion in ED Only	<input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans <input type="checkbox"/> Caltrans	<input type="checkbox"/> Approval <input type="checkbox"/> Approval <input type="checkbox"/> Approval
Check as applicable: <input type="checkbox"/> Form AD 1006 <input type="checkbox"/> Conversion to Non-Agri Use	<input type="checkbox"/> NRCS <input type="checkbox"/> CDOC <input type="checkbox"/> ACOE	<input type="checkbox"/> Approves Conversion <input type="checkbox"/> Approves Conversion

B. Required Technical Studies and Analyses	C. Coordination	D. Anticipated Actions/Permits/ Approvals
<input checked="" type="checkbox"/> <b>Cultural Resources</b> (PQS completes this section) <i>Check as applicable:</i>		
<input checked="" type="checkbox"/> APE Map	<input checked="" type="checkbox"/> Caltrans PQS	<input type="checkbox"/> Screened Undertaking
	<input checked="" type="checkbox"/> Caltrans PQS and DLAE	<input checked="" type="checkbox"/> Approves APE Map
<input checked="" type="checkbox"/> HPSR <input checked="" type="checkbox"/> ASR <input checked="" type="checkbox"/> HRER	<input checked="" type="checkbox"/> Local Preservation Groups and/or Native American Tribes  <input type="checkbox"/> Caltrans	<input checked="" type="checkbox"/> Provides Comments Regarding Concerns with Project  <input type="checkbox"/> Approves for Consultation
<input type="checkbox"/> Finding of Effect Report	<input type="checkbox"/> Caltrans	<input type="checkbox"/> Concurs on No Effect, No Adverse Effect with Standard Conditions
	<input type="checkbox"/> SHPO	<input type="checkbox"/> Letter of Concurrence on Eligibility, No Adverse Effect without Standard
<input type="checkbox"/> MOA	<input type="checkbox"/> Caltrans <input type="checkbox"/> SHPO <input type="checkbox"/> ACHP (if requested)	<input type="checkbox"/> Approves MOA <input type="checkbox"/> Approves MOA <input type="checkbox"/> Approves MOA
<input checked="" type="checkbox"/> <b>Permits</b> Copies of permits and a list of mitigation commitments are mandatory submittals following NEPA approval.	<input checked="" type="checkbox"/> ACOE <input type="checkbox"/> ACOE <input type="checkbox"/> Caltrans/ACOE/EPA USFWS <input checked="" type="checkbox"/> NOAA Fisheries <input type="checkbox"/> ACOE <input type="checkbox"/> USCG <input checked="" type="checkbox"/> RWQCB <input checked="" type="checkbox"/> CDFG <input type="checkbox"/> RWQCB <input type="checkbox"/> CCC <input type="checkbox"/> Local Agency <input type="checkbox"/> BCDC	<input checked="" type="checkbox"/> Section 404 Nationwide Permit <input type="checkbox"/> Section 404 Individual Permit <input type="checkbox"/> NEPA/404 Integration MOU <input type="checkbox"/> Rivers and Harbors Act Section 10 Permit <input type="checkbox"/> USCG Bridge Permit <input checked="" type="checkbox"/> Section 401 Water Quality Certification <input checked="" type="checkbox"/> Section 1602 Streambed Alteration Agreement <input type="checkbox"/> NPDES Permit <input type="checkbox"/> Coastal Zone Permit <input type="checkbox"/> BCDC Permit

Notes: Additional studies may be required for other federal agencies.

ACHP	=	Advisory Council on Historic Preservation	HRER	=	Historical Resources Evaluation Report
ACOE	=	U.S. Army Corps of Engineers	HUD	=	U.S. Housing and Urban Development
ADL	=	Aerially Deposited Lead	MOA	=	Memorandum of Agreement
APE	=	Area of Potential Effect	MSA	=	Magnuson-Stevens Fishery Conservation and Management Act
APN	=	Assessor Parcel Number	NEPA	=	National Environmental Policy Act
ASR	=	Archaeological Survey Report	NADR	=	Noise Abatement Decision Report
BA	=	Biological Assessment	NES	=	Natural Environment Study
BCDC	=	Bay Conservation and Development Commission	NHPA	=	National Historic Preservation Act
BE	=	Biological Evaluation	NOAA	=	National Oceanic and Atmospheric Administration
BO	=	Biological Opinion	NMFS	=	National Marine Fisheries Service
Cal EPA	=	California Environmental Protection Agency	NPDES	=	National Pollutant Discharge Elimination System
CCC	=	California Coastal Commission	NPS	=	National Park Service
CDFG	=	California Department of Fish and Game	NRCS	=	Natural Resources Conservation Service
CDOC	=	California Department of Conservation	PM10	=	Particulate Matter 10 Microns in Diameter or Less
CE	=	Categorical Exclusion	PM2.5	=	Particulate Matter 2.5 Microns in Diameter or Less
CIA	=	Community Impact Assessment	PMP	=	Project Management Plan
CWA	=	Clean Water Act	PQS	=	Professionally Qualified Staff
DLAE	=	District Local Assistance Engineer	ROD	=	Record of Decision
DOI	=	U.S. Department of Interior	RTIP	=	Regional Transportation Improvement Program
DTSC	=	Department of Toxic Substances Control	RTP	=	Regional Transportation Plan
EA	=	Environmental Assessment	RWQCB	=	Regional Water Quality Control Board
ED	=	Environmental Document	SER	=	Standard Environmental Reference
EFH	=	Essential Fish Habitat	SEP	=	Senior Environmental Planner
EIS	=	Environmental Impact Statement	SHPO	=	State Historic Preservation Officer
EPA	=	U.S. Environmental Protection Agency	SLC	=	State Lands Commission
FEMA	=	Federal Emergency Management Agency	SP	=	State Parks
FHWA	=	Federal Highway Administration	TIP	=	Transportation Improvement Program
FONSI	=	Finding of No Significant Impacted	USCG	=	U.S. Coast Guard
FTIP	=	Federal Transportation Improvement Program	USDA	=	U.S. Department of Agriculture
HPSR	=	Historic Property Survey Report	USFWS	=	U.S. Fish and Wildlife Service
			WD	=	Wetland Delineation

**E. Preliminary Environmental Document Classification (NEPA)**

Based on the evaluation of the project, the environmental document to be developed should be:

Check one:

- Environmental Impact Statement (Note: Engagement with participating agencies in accordance with SAFETEA-LU Section 6002 required)
  - Compliance with SAFETEA-LU Section 6002 regarding Participating Agencies required
- Complex Environmental Assessment
- Routine Environmental Assessment
- Categorical Exclusion without required technical studies.
- Categorical Exclusion with required technical studies
  - (if Categorical Exclusion is selected, check one of the following):
  - Section 6004
    - 23 CFR 771 activity (c)(\_\_\_\_)
    - 23 CFR 771 activity (d) (3)
    - Activity \_\_\_\_ listed in the Section 6004 MOU
  - Section 6005

**F. Public Availability and Public Hearing**

Check as applicable:

- Not Required
- Notice of Availability of Environmental Document
- Public Meeting
- Notice of Opportunity for a Public Hearing
- Public Hearing Required

- FOLLOW YOUR LOCAL HEARING PROCEDURES

- TOWN HAD COMMUNITY MEETING

- WEBSITE ON PROJECT

- EMAIL LIST; NEAR BRIDGE

**G. Signatures**

**Local Agency Staff and/or Consultant Signature**

*Nader Tamannaie*

(Signature of Preparer)

4/6/15

12/19/2014

(Date)

(415) 806-1209

(Telephone No.)

Nader Tamannaie, PE

(Name)

**Local Agency Project Engineer Signature**

This document was prepared under my supervision, in accordance with the *Local Assistance Procedures Manual*, Exhibit 6-B, "Instructions for Completing the Preliminary Environmental Study Form."

*Wajid Bukh*

(Signature of Local Agency)

1/6/15

12/19/14

(Date)

(415) 302-7766

(Telephone No.)

Preliminary Environmental Study (PES) Form

FR. 01/04/15

MEADOW WAY BRIDGE REPLACEMENT

BRLD-5277(025)

Caltrans District Professionally Qualified Staff (PQS) Signature

- Project does not meet definition of an "undertaking"; no further review is necessary under Section 106 ("No" Section A, #35).
- Project is limited to the type of activity listed in Attachment 2 of the Section 106 PA and based on the information provided in the PES Form, the project does not have the potential to affect historic properties ("No" Section A, #35).
- Project is limited to the type of activity listed in Attachment 2 of the Section 106 PA, but the following additional procedures or information is needed to determine the potential for effect ("To Be Determined" Section A, #35):
  - Records Search     \_\_\_\_\_     \_\_\_\_\_     \_\_\_\_\_
- Project meets the definition of an "undertaking"; all properties in the project area are exempt from evaluation per Attachment 4 of the Section 106 PA ("No" Section A, #35).
- The proposed undertaking is considered to have the potential to affect historic properties; further studies for 106 compliance are indicated in Sections B, C, and D of this PES Form ("Yes" Section A, #35).

*[Handwritten Signature]*

(Signature of Professionally Qualified Staff)

1-20-2015

(Date)

510-622-8767

(Telephone No.)

The following signatures are required for all CE's, routine and complex EAs, and EISs:

Caltrans District Senior Environmental Planner (or Designee) and DLAE Signatures

I have reviewed this Preliminary Environmental Study (PES) Form and determined that the submittal is complete and sufficient. I concur with the studies to be performed and the recommended NEPA Class of Action.

*[Handwritten Signature]*

(Signature of Senior Environmental Planner or Designee)

01/23/15

(Date)

510 622-8790

(Telephone No.)

Hugo Ahumada

(Name)

*[Handwritten Signature]*

(Signature of District Local Assistance Engineer or Designee)

Jan 23, 2015

(Date)

510-286-5227

(Telephone No.)

Chien S. Au

(Name)

HQ DEA Environmental Coordinator concurrence \_\_\_\_\_ (date) . E-mail concurrence attached.

**Preliminary Environmental Investigation  
Notes to Support the Conclusions of the PES Form  
(May Also Include Continuation of Detailed Project Description)**

**Brief Explanation of How Project Complies, or Will Comply with Applicable Federal Mandate (Part A):**

1. No. The project does not require future construction to fully utilize the design capabilities of the project. Further improvements to the bridge or Meadow Way are neither required nor proposed.
2. TBD. Since this is a structural safety project, the support of the public is anticipated. However, some of the public have expressed a preference for the bridge to remain in place.
3. No. The project is the replacement of a functionally obsolete bridge. The replacement bridge will be in the existing location and the bridge will not be widened for shoulders and sidewalk as part of the replacement. The horizontal alignment will not change and no lanes will be added.
4. TBD. The use of pile driving will not be required and piles will be the drilled type instead. However, limited driving of steel sheetpiling will be necessary. There will be construction noise generated by loaders, trucks, cranes and generators.
5. Yes. Marin County is a NAAQS non-attainment area.
6. Yes. Per 40 CFR Part 93, Sec. 93.126, Table 2 Exempt Projects, this project is exempt as it falls under the reconstructing bridges (no additional travel lanes) exemption.
7. Not Applicable. Please see the response to question 6.
8. Not Applicable. Please see the response to question 6.
9. Yes. Creosote-soaked timber is expected at the project site.
10. Yes. San Anselmo Creek, a Section 404 of the Clean Water Act "other waters," runs through the project site and its water quality and hydraulics will need to be protected from impacts during construction through the use of appropriate BMPs and dry season construction.
11. No. The project is not located in the area of any of the 4 sole-source aquifers in California.
12. No. Refer to the regional and location maps included. The project is not located within the Coastal Zone.
13. Yes. San Anselmo Creek, where the project is located is in a 100-year floodplain.
14. No. San Anselmo Creek is not part of the Wild and Scenic River System.
15. Yes. Protected fish species potentially occur in San Anselmo Creek in the project area. The site is within Central California Coast steelhead critical habitat. The project will comply with seasonal work windows, including dry season construction.
16. TBD. The presence of migratory birds and their nests and eggs will be determined during the completion of the technical studies. Any vegetation pruning and tree removal will comply with seasonal restrictions and/or pre-construction surveys will be implemented as avoidance and minimization measures to ensure compliance with the Migratory Bird Treaty Act.

17. TBD. The project area will be assessed for the potential for wetlands to occur within it. However, there will be work in potential CWA section 404 "other waters".
18. No. The project is not an agricultural wetland site.
19. TBD. Planting of invasive non-native species will be avoided. Planting of nursery stock, or other plants not from the region, native or non-native, will be avoided, unless such planting is required by the conditions of approval/permit by the regulatory agencies. It has not been determined if invasive species are already present on-site that could colonize disturbed areas. It will be specified that the equipment should be run through a commercial car wash before entering the site to ensure that no weed seed is introduced.
20. No. The bridge is not eligible for NRHP listing and there are no publicly owned public parks, recreation areas, wildlife or waterfowl refuges (Section 4[f]) within or immediately adjacent to the construction area.
21. No. The project is not in a Section 6[f] fund site.
22. TBD. The project will require the removal of trees and pruning of vegetation. However, views of the bridge are limited and of short duration. See the screening checklist in the attachment VIA questionnaire - Score 16. An abbreviated VIA will be prepared to discuss visual changes
23. No. Residences or businesses will not be relocated because of the project.
24. No. No ROW take is currently planned for the project.
25. No. The Fairfax Public Works Department is charged with the maintenance and upkeep of the facility and this work is consistent with its mission. The project is consistent with applicable policies of the Fairfax General Plan.
26. No. The bridge replacement project will not permanently divide or disrupt the community.
27. No. The bridge replacement project is not expected to affect any group or sub-group in Fairfax. The project will not disproportionately affect low-income and minority populations.
28. No. The existing utilities will be supported in place and incorporated in the new bridge.
29. Yes. The new bridge will be closed for a few hours during a night operation when little or no traffic is expected. Since this is the only access to the homes on the other side of the creek, emergency fire and paramedic crews will be stationed on both sides of the bridge. After the relocation of the new bridge to its final position, it will be reopened to traffic. Bridge replacement will require detouring traffic to a temporary bridge adjacent to the existing bridge. However, no permanent property access will be impacted.
30. No. This project will not change access control to any SHS facility.
31. Yes. The construction phase of the project will require slight shifting of the approach roadway to the south of the existing bridge, building the new bridge at this location, putting the traffic on the new bridge, removing the existing bridge and moving the new bridge to the location of the current bridge. The new bridge will be closed for a few hours during a night operation when little or no traffic is expected.



32. Yes. The construction phase of the project will result in the potential temporary loss of availability of 12 to 15 on-street public parking spaces at and near the project site. However, no permanent reduction of parking will occur because of the project.
33. No. The project construction will not encroach on state or federal lands.
34. No. No farmlands will be affected by the project.
35. To be answered by Caltrans PQS.
36. No. The bridge is not on or adjacent to Tribal Land.

**Distribution** 1) Original - DLAE, 2) Local Agency Project Manager, 3) DLA Environmental Coordinator  
4) Senior Environmental Planner (or designee), 5) District PQS

Updated: 05/15/08

## Detailed Project Explanation

### Meadow Way Bridge Project

As part of this project description, a couple of bridge terminology items should be explained. A "bent" is part of the bridge substructure and a support, other than an abutment. The term refers to the combination of the bridge columns, the foundation supports under the columns and the beam that spans the tops of the columns in the transverse direction to the bridge (bent cap). The abutment is also a support, except it is located at each bridge end.

The existing Meadow Way Bridge is reported to have been constructed in the 1950s over San Anselmo Creek by the U.S. Army Corps of Engineers, with mainly a timber superstructure (and few steel beams) on a timber substructure and pile extensions. The bridge has primarily 4 spans, is approximately 70 feet long and 14 feet wide, supports one narrow lane of traffic, and a narrow adjacent pedestrian path, nearly 20 feet above the creek bed. San Anselmo Creek runs south to north underneath the bridge, which spans a relatively wide section of the creek at a sharp left channel bend. The bridge serves as the only egress and ingress facility for nearly two dozen homes across the creek from Cascade Drive.

The bridge superstructure consists of two timber deck runner planks atop a combination of mainly 4x12 wood stringers and few steel I-beams. The stringers sit atop transverse 12x12 wooden bent cap beams, which are in turn supported by three 12-inch diameter wood piles at each bent. These wood piles are driven into the ground to an unknown depth. The wooden bridge members have been observed to be soaked with creosote. There are no as-built plans available, but a Bridge General Plan has been created for this project and attached. The bridge is Functionally Obsolete (FO) and is not eligible for placement on the National Register of Historic Places (NRHP) *(WITH SINGLE LANE CONCRETE BRIDGE)*

As part of this project, the exiting bridge will be replaced in stages as shown in the attached diagrams, as follows:

#### Stage 1 Construction

During this stage traffic will continue using the existing bridge. New cast-in-place concrete abutment halves will be constructed south of the existing bridge, approximately in line with the alignments of the existing bridge abutments. These halves are only portions of the permanent abutments, and are designed to support the bridge in a temporary location adjacent to the existing bridge. Removal of ~~a bay tree~~ *SEVERAL TREES* on the south west corner of the new bridge and pruning of other vegetation in the excavated area will be necessary.

To construct these segments of the abutments, the approach embankments behind them and next to the approach roads will need to be excavated. In order to not undermine the approach roadways, the approach roadway embankments will need to be retained temporarily. For this reason, sheetpiling will be driven into the pavement, starting from the south corners of each existing abutment and continuing for approximately 20 feet in each direction parallel with the road centerline. Traffic will be separated from the construction area with temporary concrete barrier railings (Type K) during Stage 1.

Since geotechnical borings and investigations have been conducted at the site, it is known that the bridge abutments and most of the lengths of the retaining walls attached to the abutments will need to be supported on piles. To minimize disturbance to the residents, cast-in-drilled-hole (CIDH) concrete piles, which are significantly quieter to install than driven piles, will be used to support the walls. The creek bed will be excavated, approximately 6 feet deep to construct concrete piles under the creek bed and to support the abutments or retaining walls. To protect the bridge foundations, rock slope protection

(RSP), otherwise known as riprap, will be placed around them and in front of the abutments and retaining walls. Construction of the retaining walls south of both abutments contour grading and RSP will start at this stage and can continue into Stage 2, if necessary.

Once these portions of the abutments are constructed, the new bridge will be constructed to span between them immediately adjacent to and south of the existing bridge. The bridge abutments will be cantilevered walls, providing seats for the ends of the new bridge superstructure. This location of the new bridge superstructure will be temporary. The new bridge is envisioned to be an 70'-long, single-span structure. Currently, the material type selected is cast-in-place (CIP) concrete. The bridge length and materials may be revised, based upon hydraulic studies and public input regarding the appearance of the bridge during the Type Selection process.

The current concept utilizes three concrete arch ribs spanning the abutments and supporting slanted spandrel columns which, in turn, support a concrete deck. The stage 1 bridge will have an overall width of 18', allowing for a 10' temporary lane, a 4' pedestrian width and Temporary Railings (Type K) bolted down at each edge of the bridge's deck. (This width will increase to 21' in the Final Stage.) The arch ribs will likely be cast in place in wooden forms supported on a wooden or steel falsework system temporarily placed on the creek bed. The ribs will be connected to each other, with transverse beams for stability. Once the arch rib concrete has cured and gained sufficient strength, the falsework may be removed. Since this construction is slated to only take a single season, the arch ribs and the transverse connecting beams will be timed to have gained strength by the end of the dry season, so that they are self-supporting for the falsework to be removed by October 15<sup>th</sup>, which is the end of the dry season. The remainder of forming and concrete casing, if needed beyond the dry season, will be supported by the arch ribs above the 100-year flows from that point forward.

### **Stage 2 Construction**

Once the bridge and its temporary approach roadways are constructed, traffic will be directed on to the new bridge. Traffic and pedestrians will be protected from the edge of the bridge with Temporary Railing (Type K) and temporary fencing. At this point, the existing bridge will be removed with a crane, piece by piece, starting with its superstructure members. To avoid dropping pieces of the bridge into the creek, special catchment containers and bridge removal methods will be specified. The wooden pile extensions will be cut at least three feet below the creek bed elevations and the holes backfilled with existing creek materials. The creosote-laden wood members will be disposed of by the contractor at an appropriate landfill.

After the bridge removal, the north halves of each of the two abutments and the downstream retaining walls connecting with the abutments will be constructed. The slopes above the retaining walls will be contour-graded and areas in front of the new abutment halves and retaining walls will be protected with RSP. This aspect of the work can continue into the Final Stage, described below. During this stage, the excavations for abutments and retaining walls will continue to be protected from traffic with Temporary Railing Type K. The approach areas behind the walls will be backfilled and slabs and the approach roadways will be constructed in line with the alignment of the bridge in its final position, which will be approximately in the middle of Meadow Way's right-of-way.

### **Final Stage Construction**

The new bridge will be closed for a few hours during a night operation when little or no traffic is expected. The new bridge superstructure will be either pushed hydraulically sideways to the north or lifted with a crane on each side to its new position near the middle of Meadow Way. Since this is the only access to the homes on the other side of the creek, emergency fire and paramedic crews will be

stationed on both sides of the bridge. After the relocation of the new bridge to its final position, it will be reopened to traffic. With traffic on the bridge, its width will be increased to 21' by constructing a 3' wide overhang in order to allow a 12' lane, ~~a 5' buffer width~~, a 5' walk/bike width and barrier railings on both edges of the deck. Approach guard rails at all four bridge corners, landscaping, vegetation restoration, fencing, and other surface improvements around the bridge may continue until project completion. The existing "wet" utility pipes will be supported in place during construction and eventually housed under the existing bridge deck. The smaller "dry" utilities may be placed inside the barrier railings and the sidewalk.

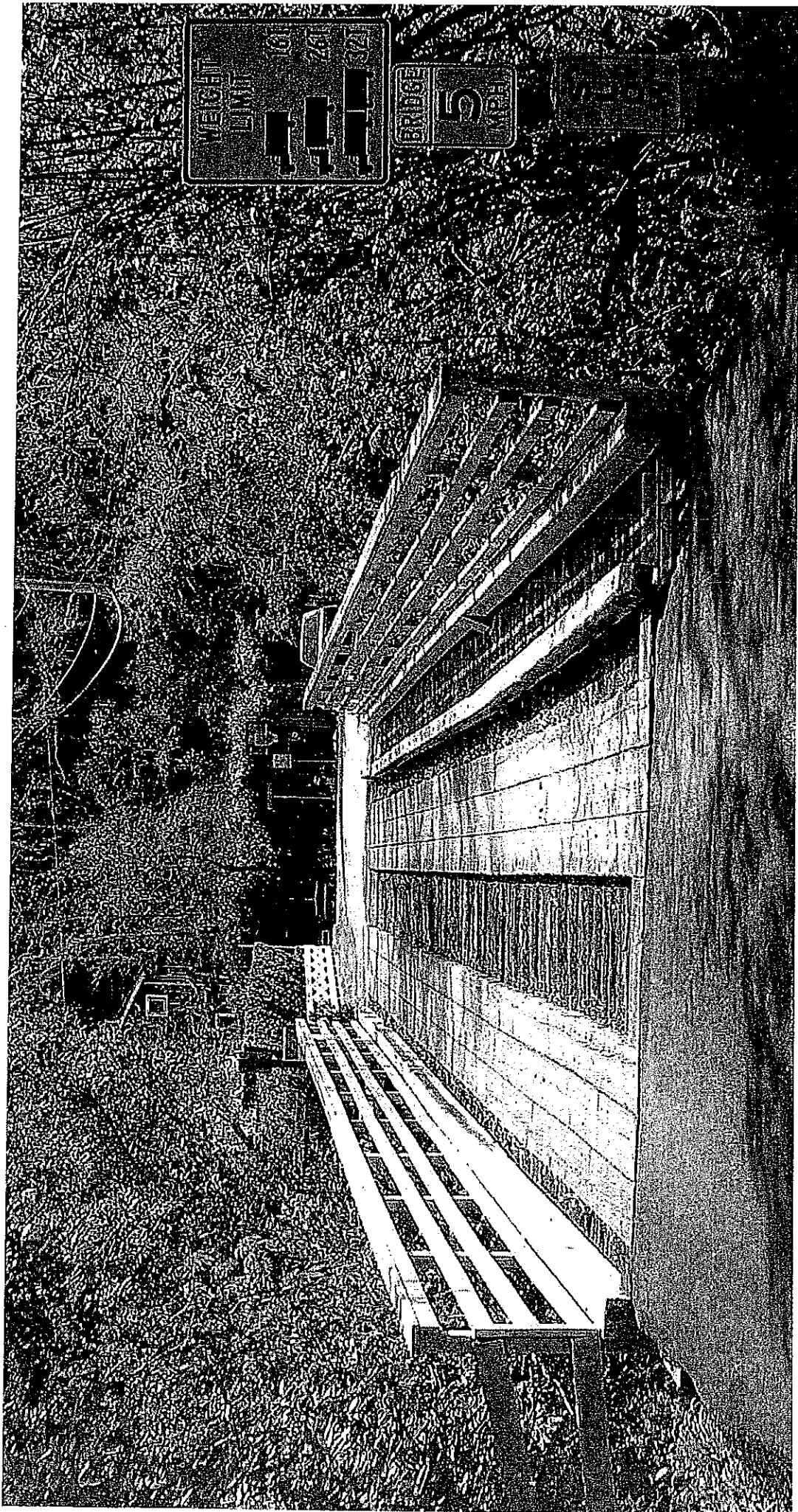
All of bridge and approach roadway work will remain within the Town of Fairfax's right-of-way (ROW). However, it appears that there have been encroachments on the Town ROW over the years, especially in the southeast quadrant. During construction, fences, fences pillars and driveways encroaching onto the Town's ROW, but not homes and other structures, will be affected.

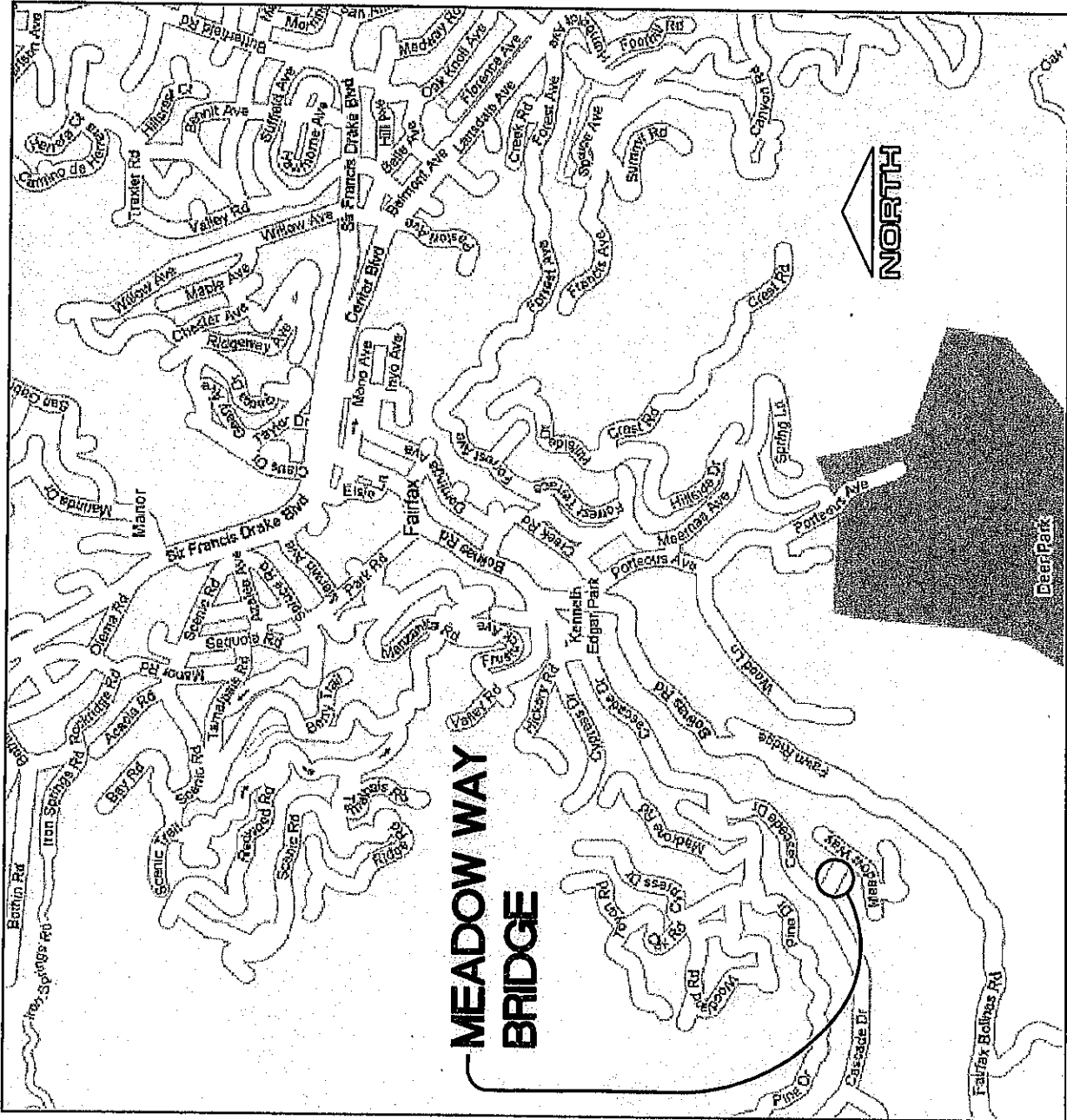
As noted before, construction in the creek will only take place during the regulatory-permitted dry period and will be limited to one season. Diversion of the low-volume flows, if any, may be necessary when falsework is placed in the creek. The bridge will be designed to clear the 100-year design flows with some freeboard. A biologist will be made available to oversee any needed aspects of construction work, as necessary.

The site offers very limited storage and staging areas for the contractor. Ramping to the creek bed area will not be feasible. The Contractor will use various pickups and dump trucks, cranes, loaders, tractor trailers, excavation machinery, generators and handheld equipment. Equipment and materials needed below deck areas will be lowered to the creek bed area with a crane. The Contractor's personnel will be able to access the creek areas on foot. A publically-owned area on Bolinas Avenue adjacent to the Town Hall, currently used for limited-time parking, may be fenced off for the Contractor to use for storing equipment and materials during construction. This site will be included in the APE map.

The design and construction phases and activities of the project will be effectively communicated with the public. This will be accomplished through periodic workshops for the residents and other interested parties, as well as with flyers, emails, and information disseminated on the web site specifically designated for this and other Fairfax projects.

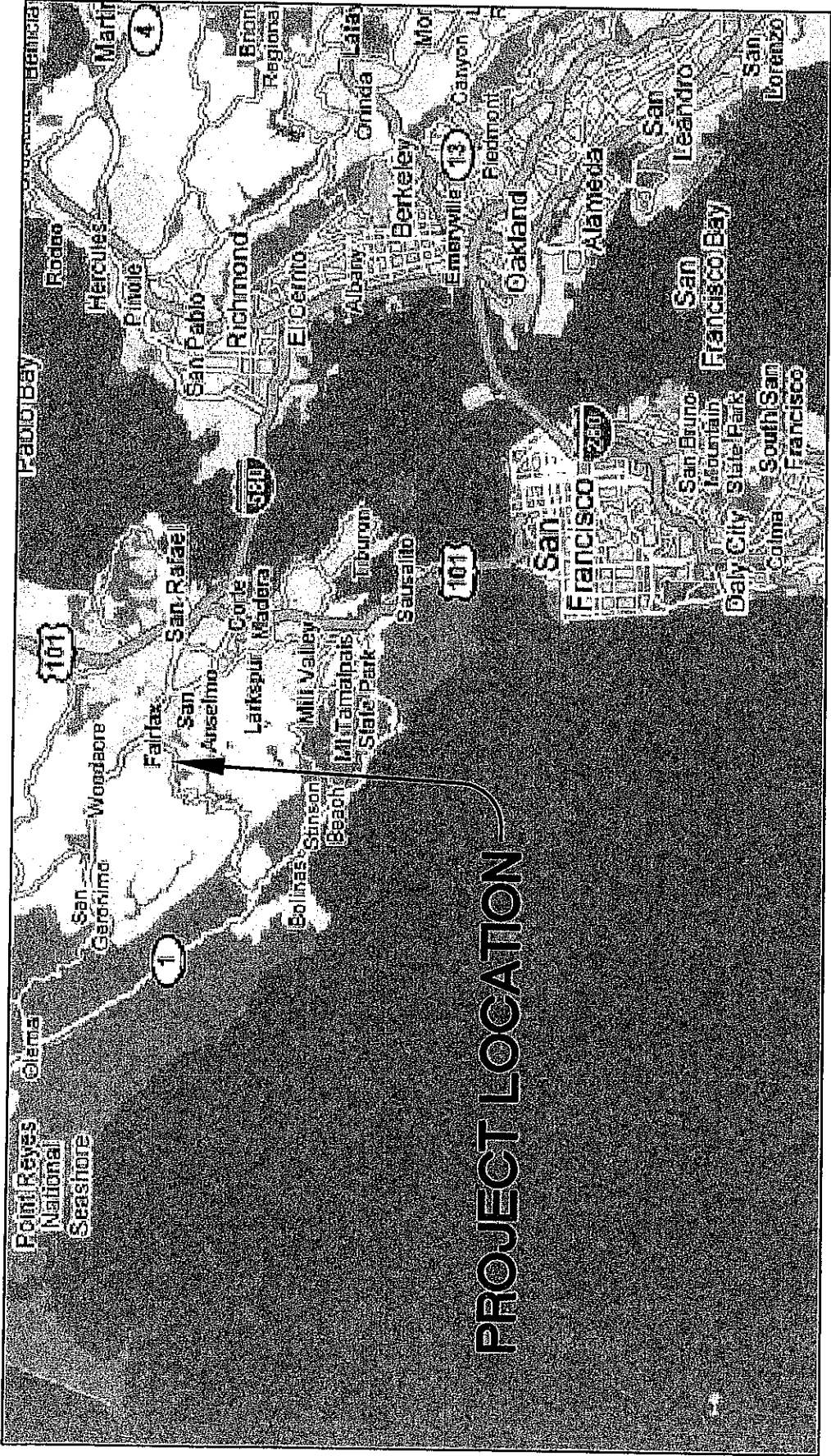
Attachments: Bridge Photo, Project Location and Regional Maps, Existing Bridge General Plan, Stage Construction Drawings (3), Bridge General Plan drawing



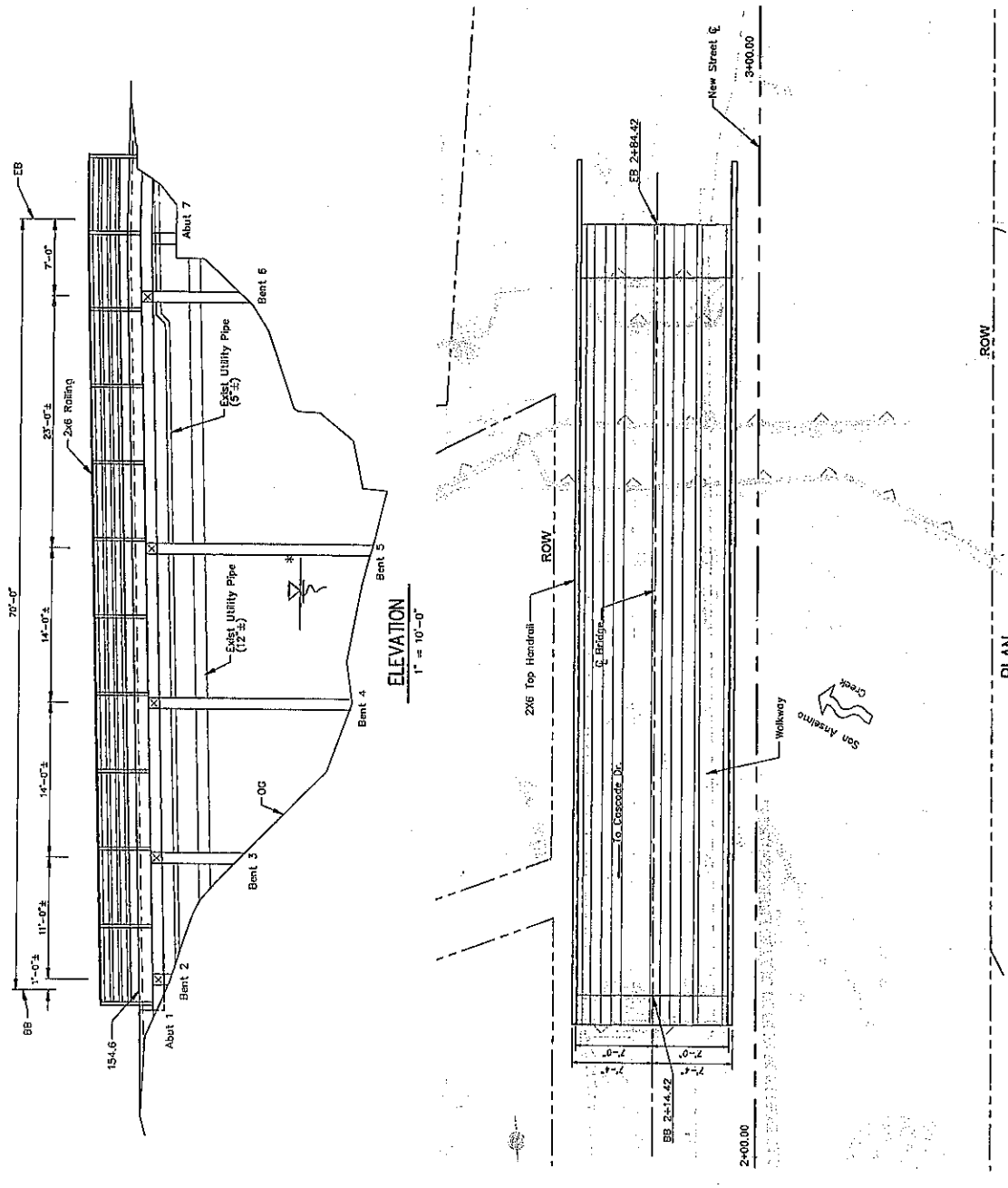


**VICINITY MAP**  
**MEADOW WAY BRIDGE - FAIRFAX**





**REGIONAL MAP**  
**MEADOW WAY BRIDGE - FAIRFAX**



**TYPICAL SECTION**  
1/8" = 1'-0"

Note: Bridge as-built details shown are approximate re-creations of the existing configurations from field measurements and observations.

NO.	BY	DATE	DESIGN BY	REVISIONS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
1" = 10'-0"				
<b>PLAN</b>				
2'-00.00				
3'-00.00				
4'-00.00				
5'-00.00				
6'-00.00				
7'-00.00				
8'-00.00				
9'-00.00				
10'-00.00				
11'-00.00				
12'-00.00				
13'-00.00				
14'-00.00				
15'-00.00				
16'-00.00				
17'-00.00				
18'-00.00				
19'-00.00				
20'-00.00				
21'-00.00				
22'-00.00				
23'-00.00				
24'-00.00				
25'-00.00				
26'-00.00				
27'-00.00				
28'-00.00				
29'-00.00				
30'-00.00				
31'-00.00				
32'-00.00				
33'-00.00				
34'-00.00				
35'-00.00				
36'-00.00				
37'-00.00				
38'-00.00				
39'-00.00				
40'-00.00				
41'-00.00				
42'-00.00				
43'-00.00				
44'-00.00				
45'-00.00				
46'-00.00				
47'-00.00				
48'-00.00				
49'-00.00				
50'-00.00				
51'-00.00				
52'-00.00				
53'-00.00				
54'-00.00				
55'-00.00				
56'-00.00				
57'-00.00				
58'-00.00				
59'-00.00				
60'-00.00				
61'-00.00				
62'-00.00				
63'-00.00				
64'-00.00				
65'-00.00				
66'-00.00				
67'-00.00				
68'-00.00				
69'-00.00				
70'-00.00				
71'-00.00				
72'-00.00				
73'-00.00				
74'-00.00				
75'-00.00				
76'-00.00				
77'-00.00				
78'-00.00				
79'-00.00				
80'-00.00				
81'-00.00				
82'-00.00				
83'-00.00				
84'-00.00				
85'-00.00				
86'-00.00				
87'-00.00				
88'-00.00				
89'-00.00				
90'-00.00				
91'-00.00				
92'-00.00				
93'-00.00				
94'-00.00				
95'-00.00				
96'-00.00				
97'-00.00				
98'-00.00				
99'-00.00				
100'-00.00				

MEADOW WAY BRIDGE (BR NO. 27C-0008)



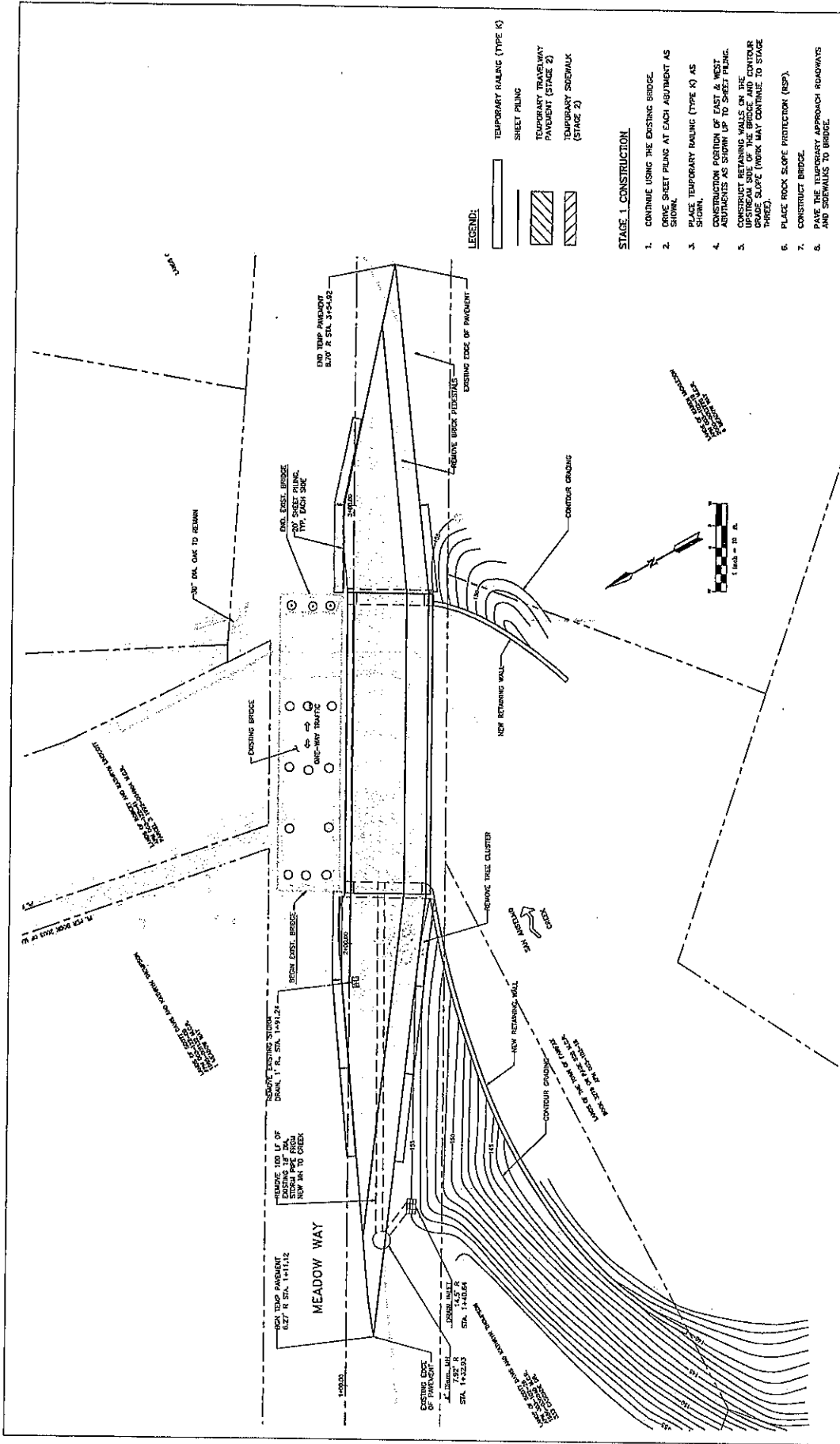
CUREN ENGINEERING GROUP  
500 ALHAMBRA BLVD. SUITE 220  
SACRAMENTO, CA 95891

**AS-BUILT GENERAL PLAN**

142 BOLLINAS ROAD  
FAIRFAX, CA 94930

NO.	BY	DATE	DESIGN BY	REVISIONS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
1" = 10'-0"				
<b>PLAN</b>				
2'-00.00				
3'-00.00				
4'-00.00				
5'-00.00				
6'-00.00				
7'-00.00				
8'-00.00				
9'-00.00				
10'-00.00				
11'-00.00				
12'-00.00				
13'-00.00				
14'-00.00				
15'-00.00				
16'-00.00				
17'-00.00				
18'-00.00				
19'-00.00				
20'-00.00				
21'-00.00				
22'-00.00				
23'-00.00				
24'-00.00				
25'-00.00				
26'-00.00				
27'-00.00				
28'-00.00				
29'-00.00				
30'-00.00				
31'-00.00				
32'-00.00				
33'-00.00				
34'-00.00				
35'-00.00				
36'-00.00				
37'-00.00				
38'-00.00				
39'-00.00				
40'-00.00				
41'-00.00				
42'-00.00				
43'-00.00				
44'-00.00				
45'-00.00				
46'-00.00				
47'-00.00				
48'-00.00				
49'-00.00				
50'-00.00				
51'-00.00				
52'-00.00				
53'-00.00				
54'-00.00				
55'-00.00				
56'-00.00				
57'-00.00				
58'-00.00				
59'-00.00				
60'-00.00				
61'-00.00				
62'-00.00				
63'-00.00				
64'-00.00				
65'-00.00				
66'-00.00				
67'-00.00				
68'-00.00				
69'-00.00				
70'-00.00				
71'-00.00				
72'-00.00				
73'-00.00				
74'-00.00				
75'-00.00				
76'-00.00				
77'-00.00				
78'-00.00				
79'-00.00				
80'-00.00				
81'-00.00				
82'-00.00				
83'-00.00				
84'-00.00				
85'-00.00				
86'-00.00				
87'-00.00				
88'-00.00				
89'-00.00				
90'-00.00				
91'-00.00				
92'-00.00				
93'-00.00				
94'-00.00				
95'-00.00				
96'-00.00				
97'-00.00				
98'-00.00				
99'-00.00				
100'-00.00				



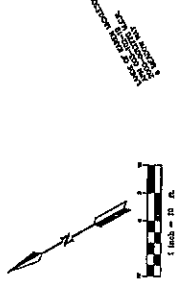


**LEGEND:**

- TEMPORARY RAILING (TYPE K)
- SHEET PILING
- TEMPORARY TRANSVERSE PAVEMENT (STAGE 2)
- TEMPORARY SIDEWALK (STAGE 2)

**STAGE 1 CONSTRUCTION**

1. CONTINUE USING THE EXISTING BRIDGE.
2. DRIVE SHEET PILING AT EACH ABUTMENT AS SHOWN.
3. PLACE TEMPORARY RAILING (TYPE K) AS SHOWN.
4. CONSTRUCT PORTION OF EAST & WEST ABUTMENTS AS SHOWN UP TO SHEET PILING.
5. CONSTRUCT RETAINING WALLS ON THE UPSTREAM SIDE OF THE BRIDGE AND CONTOUR BRICK SLOPE (WORK MAY CONTINUE TO STAGE THREE).
6. PLACE ROCK SLOPE PROTECTION (RSP).
7. CONSTRUCT BRIDGE.
8. PAVE THE TEMPORARY APPROACH ROADWAYS AND SIDEWALKS TO BRIDGE.

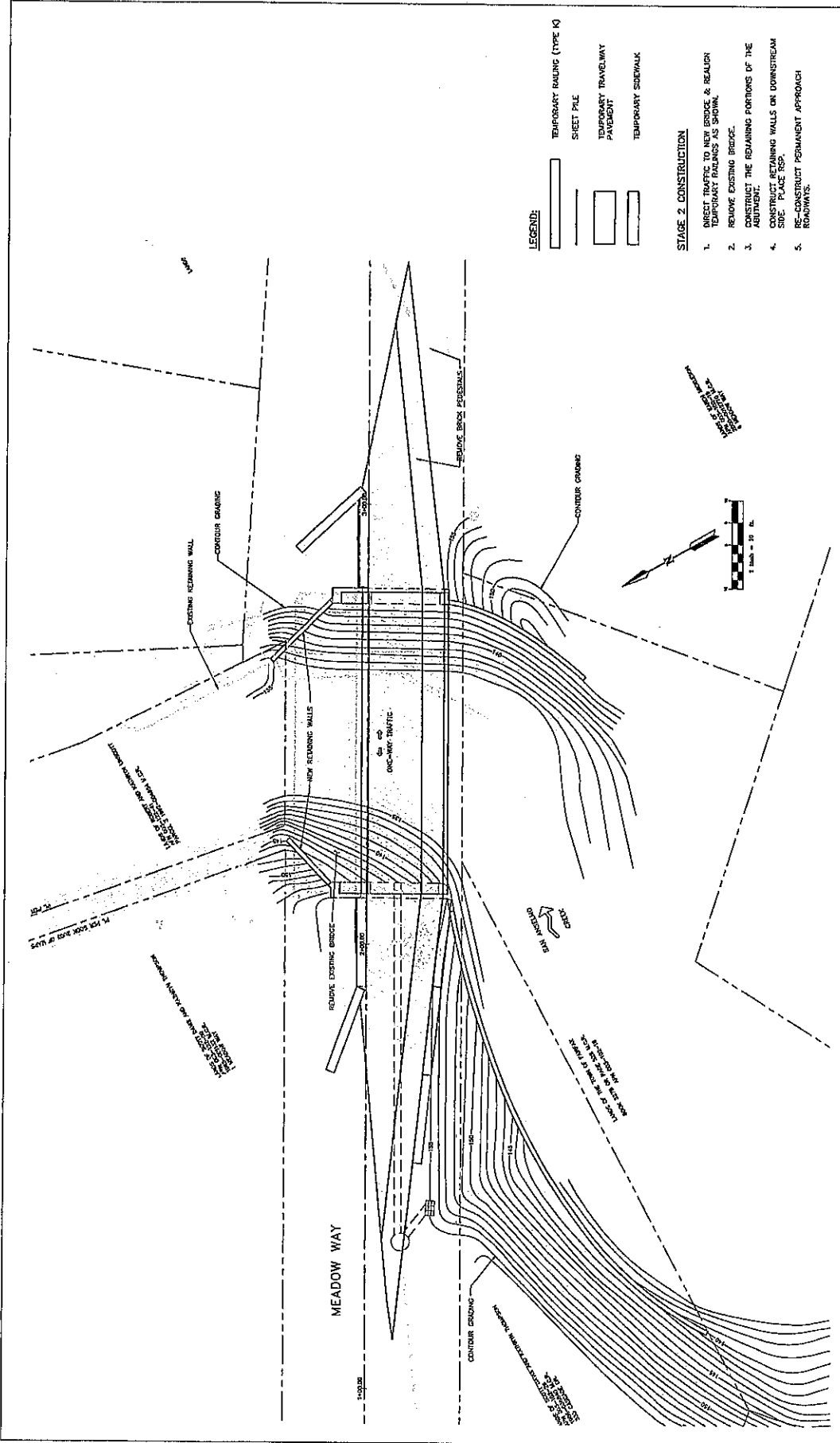


NO.	BY	DATE	REVISIONS

**T&W N  
FAIRFAX**  
Civil Engineering & Surveying  
500 ALHAMBRA BLVD., SUITE 200  
SACRAMENTO, CA 95810

**MEADOW WAY BRIDGE REPLACEMENT  
STAGE 1**

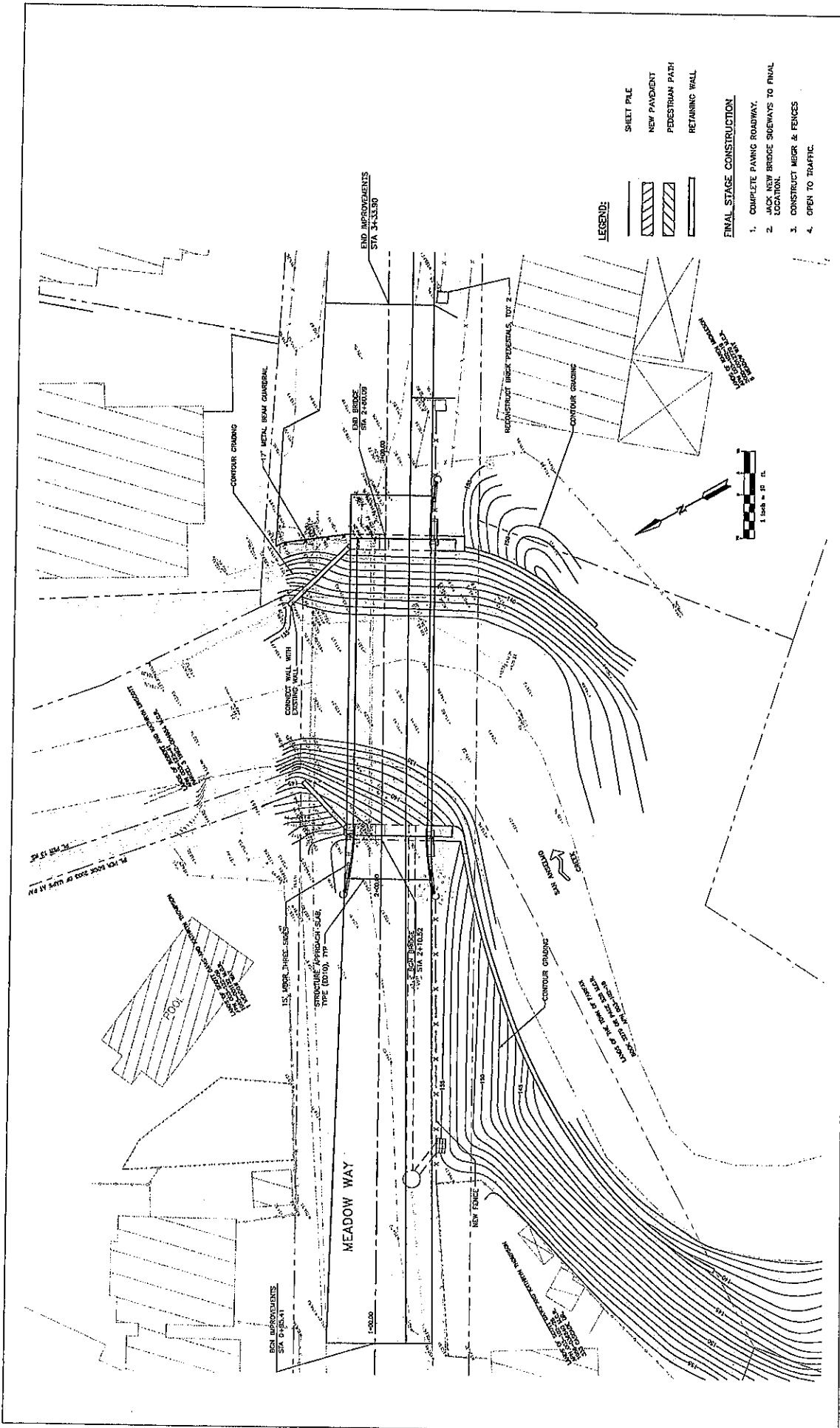
	SHEET
	OF



NO.	REVISIONS	BY	DATE	DESIGN BY :	DATE
1				DRAWN BY :	
2				CHECKED BY :	
3				SCALE : AS NOTED	
4				BRIDGE NO. :	
5				PROJ. NO. :	

 <b>TOWN OF FAIRFAX</b> 142 BOLLINAS ROAD, FAIRFAX, CA 94939		<b>MEADOW WAY BRIDGE REPLACEMENT</b>  <b>STAGE 2</b>	
 City of Sacramento 900 ALHAMBRA BLVD., SUITE 220 SACRAMENTO, CA 95833			



**LEGEND:**

- SHEET PILE
- NEW PAVEMENT
- PEDESTRIAN PATH
- RETAINING WALL

**FINAL STAGE CONSTRUCTION**

1. COMPLETE PAVING ROADWAY.
2. JACK NEW BRIDGE SKEWAYS TO FINAL LOCATION.
3. CONSTRUCT MBRG & FENCES
4. OPEN TO TRAFFIC.

NO.	REVISIONS	BY	DATE	DESIGN BY	DATE
1				CONV BY	
2				SCALE	AS NOTED
3				DATE	
4				BRIDGE NO.	
5				PROJ. NO.	

**TOWN OF FAIRFAX**  
 142 BOLINAS ROAD,  
 FAIRFAX, CA 94930

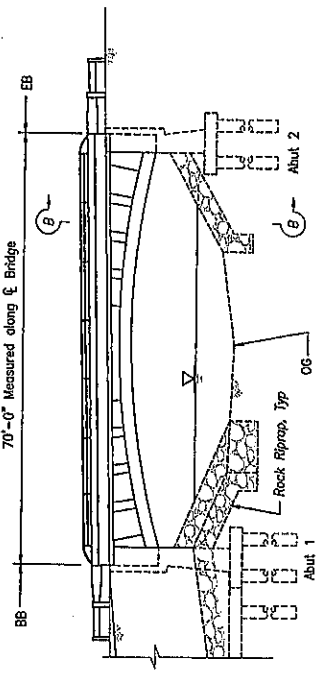
**Central Engineering**  
 890 ALVARADO BLVD., SUITE 220  
 SUCCEMUNTO, CA 95060

**MEADOW WAY BRIDGE REPLACEMENT**

**FINAL STAGE**

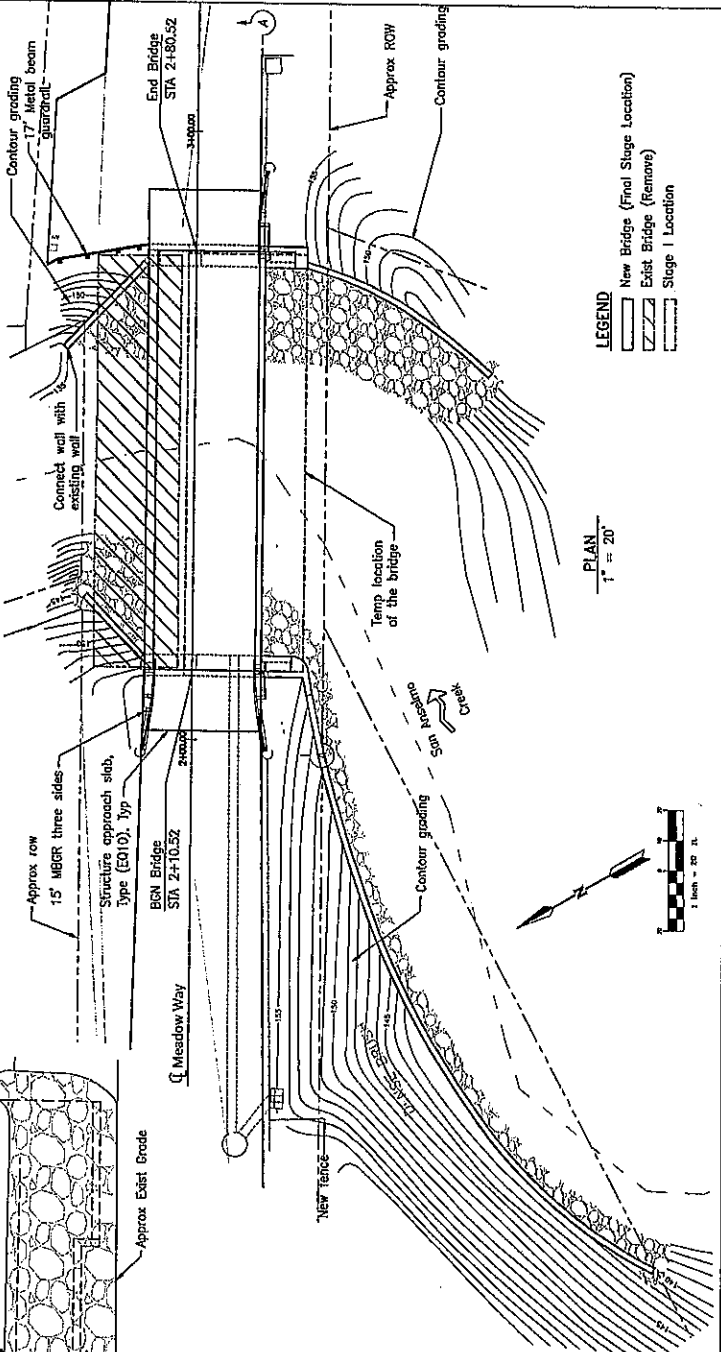
SHEET  
 OF

70'-0" Measured along  $\xi$  Bridge



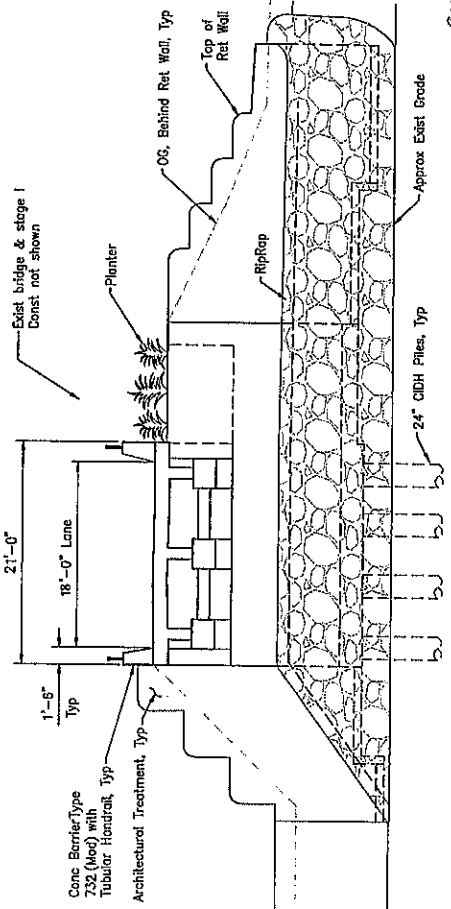
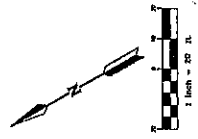
Datum Elev 115.00

ELEVATION A-A  
1" = 20'



PLAN  
1" = 20'

LEGEND  
New Bridge (Final Sludge Replacement)  
Exist Bridge (Remove)  
Sludge I Location



TYPICAL SECTION (VIEW B-B)  
3/32" = 1'-0"

NO.	REVISIONS	BY	DATE	DESIGN BY :	DRAWN BY :	CHECKED BY :	SCALE :	DATE :	BRIDGE NO. :	PROJ. NO. :

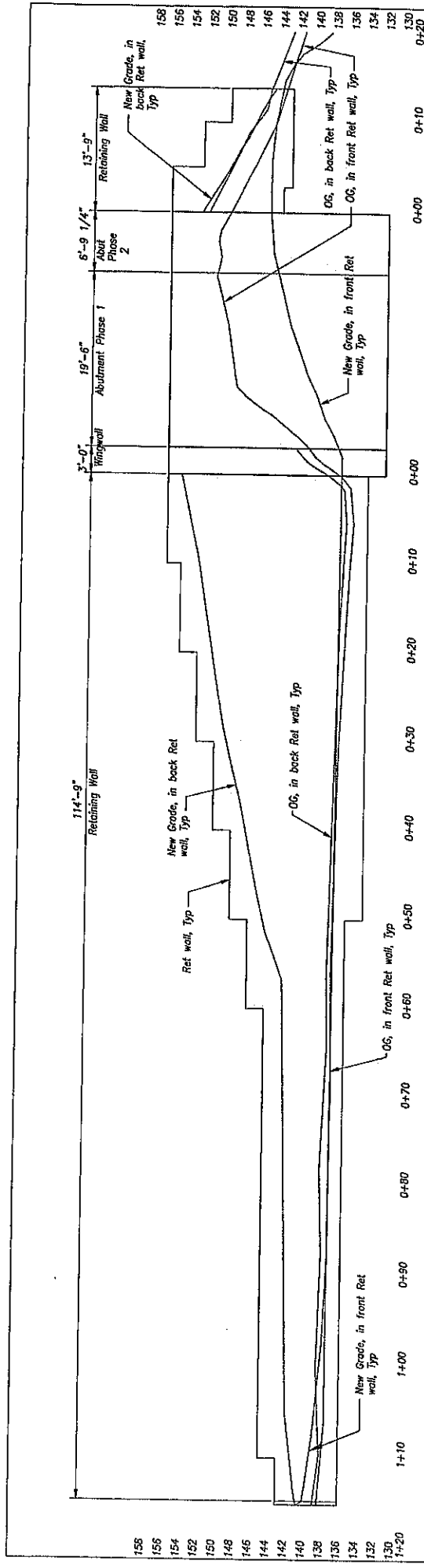
**TOWN OF FAIRFAX**  
142 BOLINAS ROAD  
FAIRFAX, CA 94930

**Current Insurance Company**  
800 ALHAMBRA BLVD. SUITE 220  
SACRAMENTO, CA 95818

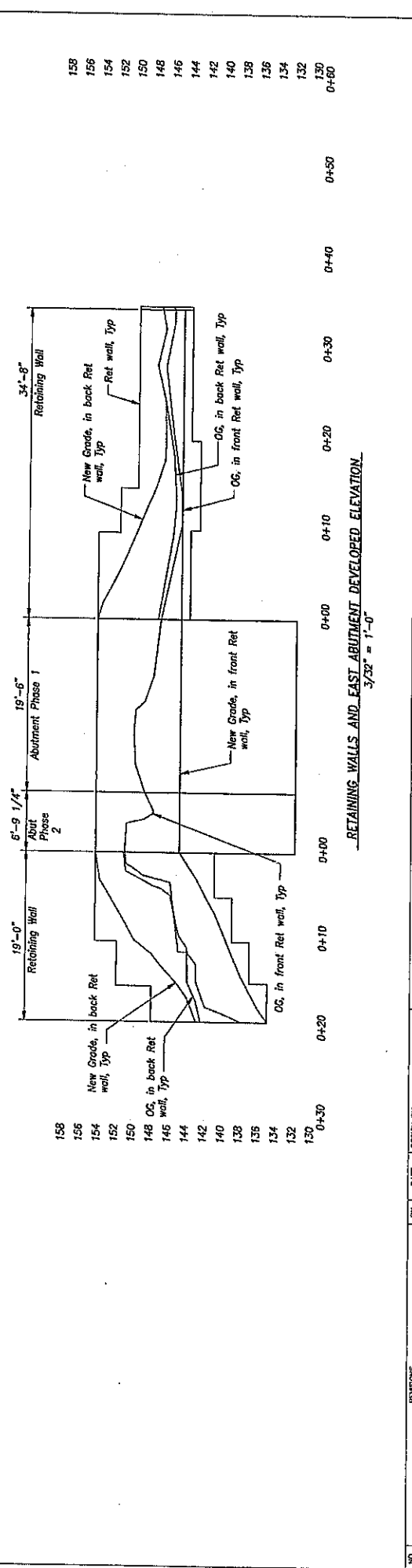
MEADOW WAY BRIDGE REPLACEMENT

GENERAL PLAN

SHEET	
OF	



RETAINING WALLS AND WEST ABUTMENT DEVELOPED ELEVATION  
3/32" = 1'-0"



RETAINING WALLS AND EAST ABUTMENT DEVELOPED ELEVATION  
3/32" = 1'-0"

NO.	REVISIONS	BY	DATE	DESIGN BY :

**TOWN OF FAIRFAX**  
 142 BOLINAS ROAD  
 FAIRFAX, CA 94930

COUNTY OF SACRAMENTO GEOTECHNICAL  
 830 ALHAMBRA BLVD. SUITE 200  
 SACRAMENTO, CA 95819

MEADOW WAY BRIDGE REPLACEMENT  
 DEVELOPED WALL ELEVATIONS

SHEET	
OF	

Meadow Way Bridge - Geotracker Sites within 8,000 of Project Site

SITE NAME	GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY
ALFA GAS STATION	T0604133026		COMPLETED - CASE CLOSED	1789 SIR FRANCIS DRAKE BLVD	FAIRFAX
FAIRFAX CORPORATION YARD	T0604100223		COMPLETED - CASE CLOSED	142 BOLINAS RD	FAIRFAX
FAIRFAX GARBAGE DISPOSAL	T0604100293		COMPLETED - CASE CLOSED	1583 SIR FRANCIS DRAKE BLVD	SAN ANSELMO
FAIRFAX GAS		600138		2001 SIR FRANCIS DRAKE BLVD.	FAIRFAX
FAIRFAX GAS	T060417917		OPEN - REMEDIATION	2001 SIR FRANCIS DRAKE BLVD	FAIRFAX
FERRARO FAIRFAX SERVICE	T0604137652		COMPLETED - CASE CLOSED	1942 SIR FRANCIS DRAKE BLVD.	FAIRFAX
FERRARO FAIRFAX SERVICE		600140		1942 SIR FRANCIS DRAKE BLVD.	FAIRFAX
IGS		600261		1789 SIR FRANCIS DRAKE BLVD.	FAIRFAX
MARIN MUNICIPAL WATER DISTRICT - RANGER STATION		600211		50 SKYOAKS RD.	FAIRFAX
MEADOWS' CLUB GOLF COURSE	T0604100075		COMPLETED - CASE CLOSED	1001 BOLINAS RD	FAIRFAX
MOBIL	T0604100081		COMPLETED - CASE CLOSED	1535 SIR FRANCIS DRAKE BLVD	SAN ANSELMO
REDWOOD OIL COMPANY BP	T0604100108		COMPLETED - CASE CLOSED	1789 SIR FRANCIS DRAKE BLVD	FAIRFAX
SAN ANSELMO COTTAGES	T0604194021		COMPLETED - CASE CLOSED	1608 - 1616 SIR FRANCIS DRAKE BLVD	SAN ANSELMO
TEXACO	T0604100048		COMPLETED - CASE CLOSED	2400 SIR FRANCIS DRAKE BLVD	FAIRFAX

**U.S. Fish & Wildlife Service**  
**Sacramento Fish & Wildlife Office**  
**Federal Endangered and Threatened Species that Occur in**  
**or may be Affected by Projects in the Counties and/or**  
**U.S.G.S. 7 1/2 Minute Quads you requested**

Document Number: 141202110155

Current as of: December 2, 2014

### Quad Lists

#### Listed Species

##### Invertebrates

- Haliotes cracherodii*  
black abalone (E) (NMFS)
- Haliotes sorenseni*  
white abalone (E) (NMFS)
- Icaricia icarioides missionensis*  
mission blue butterfly (E)
- Speyeria zerene myrtleae*  
Myrtle's silverspot butterfly (E)

##### Fish

- Eucyclogobius newberryi*  
tidewater goby (E)
- Hypomesus transpacificus*  
delta smelt (T)
- Oncorhynchus kisutch*  
coho salmon - central CA coast (E) (NMFS)  
Critical habitat, coho salmon - central CA coast (X) (NMFS)
- Oncorhynchus mykiss*  
Central California Coastal steelhead (T) (NMFS)  
Central Valley steelhead (T) (NMFS)  
Critical habitat, Central California coastal steelhead (X) (NMFS)
- Oncorhynchus tshawytscha*  
California coastal chinook salmon (T) (NMFS)  
Central Valley spring-run chinook salmon (T) (NMFS)  
winter-run chinook salmon, Sacramento River (E) (NMFS)

##### Amphibians

- Rana draytonii*  
California red-legged frog (T)

##### Birds

- Brachyramphus marmoratus*  
Critical habitat, marbled murrelet (X)  
marbled murrelet (T)
- Charadrius alexandrinus nivosus*  
western snowy plover (T)
- Diomedea albatrus*  
short-tailed albatross (E)
- Pelecanus occidentalis californicus*  
California brown pelican (E)

- Rallus longirostris obsoletus*  
California clapper rail (E)
- Sternula antillarum* (=Sterna, =albifrons) browni  
California least tern (E)
- Strix occidentalis caurina*  
northern spotted owl (T)

### Mammals

- Arctocephalus townsendi*  
Guadalupe fur seal (T) (NMFS)
- Balaenoptera borealis*  
sei whale (E) (NMFS)
- Balaenoptera musculus*  
blue whale (E) (NMFS)
- Balaenoptera physalus*  
finback (=fin) whale (E) (NMFS)
- Eubalaena* (=Balaena) glacialis  
right whale (E) (NMFS)
- Physeter catodon* (=macrocephalus)  
sperm whale (E) (NMFS)
- Reithrodontomys raviventris*  
salt marsh harvest mouse (E)

### Plants

- Hesperolinon congestum*  
Marin dwarf-flax (=western flax) (T)
- Holocarpha macradenia*  
Santa Cruz tarplant (T)
- Pentachaeta bellidiflora*  
white-rayed pentachaeta (E)
- Trifolium amoenum*  
showy Indian clover (E)

### Quads Containing Listed, Proposed or Candidate Species:

SAN RAFAEL (467A)

## County Lists

### Marin County

#### Listed Species

#### Invertebrates

- Branchinecta conservatio*  
Conservancy fairy shrimp (E)
- Haliotes cracherodii*  
black abalone (E) (NMFS)
- Haliotes sorenseni*  
white abalone (E) (NMFS)
- Icaricia icarioides missionensis*  
mission blue butterfly (E)
- Speyeria callippe callippe*



callippe silverspot butterfly (E)

*Speyeria zerene myrtleae*  
Myrtle's silverspot butterfly (E)

*Syncaris pacifica*  
California freshwater shrimp (E)

## Fish

*Acipenser medirostris*  
green sturgeon (T) (NMFS)

*Eucyclogobius newberryi*  
critical habitat, tidewater goby (X)  
tidewater goby (E)

*Hypomesus transpacificus*  
delta smelt (T)

*Oncorhynchus kisutch*  
coho salmon - central CA coast (E) (NMFS)  
Critical habitat, coho salmon - central CA coast (X) (NMFS)

*Oncorhynchus mykiss*  
Central California Coastal steelhead (T) (NMFS)  
Central Valley steelhead (T) (NMFS)  
Critical habitat, Central California coastal steelhead (X) (NMFS)  
Critical habitat, Central Valley steelhead (X) (NMFS)

*Oncorhynchus tshawytscha*  
California coastal chinook salmon (T) (NMFS)  
Central Valley spring-run chinook salmon (T) (NMFS)  
Critical habitat, winter-run chinook salmon (X) (NMFS)  
winter-run chinook salmon, Sacramento River (E) (NMFS)

## Amphibians

*Ambystoma californiense*  
California tiger salamander, central population (T)  
California tiger salamander, Sonoma Co. pop (E)

*Rana draytonii*  
California red-legged frog (T)  
Critical habitat, California red-legged frog (X)

## Reptiles

*Caretta caretta*  
loggerhead turtle (T) (NMFS)

*Chelonia mydas (incl. agassizi)*  
green turtle (T) (NMFS)

*Dermochelys coriacea*  
leatherback turtle (E) (NMFS)

*Lepidochelys olivacea*  
olive (=Pacific) ridley sea turtle (T) (NMFS)

*Masticophis lateralis euryxanthus*  
Alameda whipsnake [=striped racer] (T)

## Birds

*Brachyramphus marmoratus*  
Critical habitat, marbled murrelet (X)  
marbled murrelet (T)

*Charadrius alexandrinus nivosus*  
Critical habitat, western snowy plover (X)  
western snowy plover (T)

*Diomedea albatrus*  
short-tailed albatross (E)

*Pelecanus occidentalis californicus*  
California brown pelican (E)

*Rallus longirostris obsoletus*  
California clapper rail (E)

*Sternula antillarum* (=Sterna, =albifrons) browni  
California least tern (E)

*Strix occidentalis caurina*  
northern spotted owl (T)

## Mammals

*Arctocephalus townsendi*  
Guadalupe fur seal (T) (NMFS)

*Balaenoptera borealis*  
sei whale (E) (NMFS)

*Balaenoptera musculus*  
blue whale (E) (NMFS)

*Balaenoptera physalus*  
finback (=fin) whale (E) (NMFS)

*Enhydra lutris nereis*  
southern sea otter (T)

*Eubalaena* (=Balaena) glacialis  
right whale (E) (NMFS)

*Eumetopias jubatus*

Critical Habitat, Steller (=northern) sea-lion (X) (NMFS)

Steller (=northern) sea-lion (T) (NMFS)

*Physeter catodon (=macrocephalus)*

sperm whale (E) (NMFS)

*Reithrodontomys raviventris*

salt marsh harvest mouse (E)

## Plants

*Alopecurus aequalis var. sonomensis*

Sonoma alopecurus (E)

*Arctostaphylos hookeri ssp. ravenii*

Presidio (=Raven's) manzanita (E)

*Arenaria paludicola*

marsh sandwort (E)

*Calochortus tiburonensis*

Tiburon mariposa lily (T)

*Castilleja affinis ssp. neglecta*

Tiburon paintbrush (E)

*Chorizanthe robusta var. robusta*

robust spineflower (E)

*Chorizanthe valida*

Sonoma spineflower (E)

*Clarkia franciscana*

Presidio clarkia (E)

*Cordylanthus mollis ssp. mollis*

soft bird's-beak (E)

*Delphinium bakeri*

Baker's larkspur (E)

Critical habitat, Baker's larkspur (X)

*Delphinium luteum*

Critical habitat, yellow larkspur (X)

yellow larkspur (E)

*Hesperolinon congestum*

Marin dwarf-flax (=western flax) (T)

*Holocarpha macradenia*

## Santa Cruz tarplant (T)

*Lasthenia conjugens*

Contra Costa goldfields (E)

Critical habitat, Contra Costa goldfields (X)

*Layia carnosa*

beach layia (E)

*Lessingia germanorum*

San Francisco lessingia (E)

*Lilium pardalinum ssp. pitkinense*

Pitkin Marsh lily (E)

*Limnanthes vinculans*

Sebastopol meadowfoam (E)

*Lupinus tidestromii*

clover lupine [Tidestrom's lupine] (E)

*Pentachaeta bellidiflora*

white-rayed pentachaeta (E)

*Potentilla hickmanii*

Hickman's potentilla (=cinquefoil) (E)

*Streptanthus niger*

Tiburon jewelflower (E)

*Trifolium amoenum*

showy Indian clover (E)

## Proposed Species

## Plants

*Arctostaphylos Franciscana*

Critical Habitat, Franciscan Manzanita (X)

*Cordylanthus mollis ssp. mollis*

Critical habitat, soft bird's-beak (PX)

**Key:**(E) *Endangered* - Listed as being in danger of extinction.(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.(NMFS) Species under the Jurisdiction of the National Oceanic & Atmospheric Administration Fisheries Service. Consult with them directly about these species.*Critical Habitat* - Area essential to the conservation of a species.(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.(C) *Candidate* - Candidate to become a proposed species.(V) *Vacated* by a court order. Not currently in effect. Being reviewed by the Service.

(X) *Critical Habitat* designated for this species

## Important Information About Your Species List

### How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

### Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

### Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our [Protocol](#) and [Recovery Permits](#) pages.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environmental documents prepared for your project.

### Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to

avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

## Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [Map Room](#) page.

## Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

## Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. [More info](#)

## Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6520.

## Updates

Our database is constantly updated as species are proposed, listed and delisted. If you

address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be March 02, 2015.

# Questionnaire to Determine Visual Impact Assessment (VIA) Level

Use the following questions and subsequent score as a guide to help determine the appropriate level of VIA documentation. This questionnaire assists the VIA preparer (i.e. Landscape Architect) in estimating the probable visual impacts of a proposed project on the environment and in understanding the degree and breadth of the possible visual issues. The goal is to develop a suitable document strategy that is thorough, concise and defensible.

Enter the project name and consider each of the ten questions below. Select the response that most closely applies to the proposed project and corresponding number on the right side of the table. Points are automatically computed at the bottom of the table and the total score should be matched to one of the five groups of scores at the end of the questionnaire that include recommended levels of VIA study and associated annotated outlines (i.e., minor, moderate, advanced/complex).

This scoring system should be used as a preliminary guide and should not be used as a substitute for objective analysis on the part of the preparer. Although the total score may recommend a certain level of VIA document, circumstances associated with any one of the ten question-areas may indicate the need to elevate the VIA to a greater level of detail. For projects done by others on the State Highway System, the District Landscape Architect should be consulted when scoping the VIA level and provide concurrence on the level of analysis used.

## Calculate VIA Level Score

<b>PROJECT NAME:</b> Meadow Way Bridge Project BRLO-5277(025)	
<b>CHANGE TO VISUAL ENVIRONMENT</b>	
<p><b>1. Will the project result in a noticeable change in the physical characteristics of the existing environment?</b></p> <p><i>Consider all project components and construction impacts - both permanent and temporary, including landform changes, structures, noise barriers, vegetation removal, railing, signage, and contractor activities.</i></p>	Moderate Level of Change (2 points) ▼
<p><b>2. Will the project complement or contrast with the visual character desired by the community?</b></p> <p>Evaluate the scale and extent of the project features compared to the surrounding scale of the community. Is the project likely to give an urban appearance to an existing rural or suburban community? Do you anticipate that the change will be viewed by the public as positive or negative? Research planning documents, or talk with local planners and community representatives to understand the type of visual environment local residents envision for their community.</p>	High Compatibility (1 point) ▼
<p><b>3. What level of local concern is there for the types of project features (e.g., bridge structures, large excavations, sound barriers, or median planting removal) and construction impacts that are proposed?</b></p> <p>Certain project improvements can be of special interest</p>	Moderate Concern (2 points) ▼



<p>to local citizens, causing a heightened level of public concern, and requiring a more focused visual analysis.</p>	
<p><b>4. Will the project require redesign or realignment to minimize adverse change or will mitigation, such as landscape or architectural treatment, likely be necessary?</b></p> <p>Consider the type of changes caused by the project, i.e., can undesirable views be screened or will desirable views be permanently obscured so a redesign should be considered?</p>	<p>Mitigation Likely (1 point) ▼</p>
<p><b>5. Will this project, when seen collectively with other projects, result in an aggregate adverse change (cumulative impacts) in overall visual quality or character?</b></p> <p>Identify any projects (both Caltrans and local) in the area that have been constructed in recent years and those currently planned for future construction. The window of time and the extent of area applicable to possible cumulative impacts should be based on a reasonable anticipation of the viewing public's perception.</p>	<p>Cumulative Impacts Unlikely to Occur (1 point) ▼</p>
<p><b>VIEWER SENSITIVITY</b></p>	
<p><b>1. What is the potential that the project proposal will be controversial within the community, or opposed by any organized group?</b></p> <p>This can be researched initially by talking with Caltrans and local agency management and staff familiar with the affected community's sentiments as evidenced by past projects and/or current information.</p>	<p>Moderate Potential (2 points) ▼</p>
<p><b>2. How sensitive are potential viewer-groups likely to be regarding visible changes proposed by the project?</b></p> <p>Consider among other factors the number of viewers within the group, probable viewer expectations, activities, viewing duration, and orientation. The expected viewer sensitivity level may be scoped by applying professional judgment, and by soliciting information from other Caltrans staff, local agencies and community representatives familiar with the affected community's sentiments and demonstrated concerns.</p>	<p>Low Sensitivity (1 point) ▼</p>
<p><b>3. To what degree does the project's aesthetic approach appear to be consistent with applicable laws, ordinances, regulations, policies or standards?</b></p> <p>Although the State is not always required to comply with local planning ordinances, these documents are critical in understanding the importance that</p>	

<p>communities place on aesthetic issues. The Caltrans Environmental Planning branch may have copies of the planning documents that pertain to the project. If not, this information can be obtained by contacting the local planning department. Also, many local and state planning documents can be found online at the <a href="#">California Land Use Planning Network</a>.</p>	<p>High Compatibility (1 point) ▼</p>
<p><b>4. Are permits going to be required by outside regulatory agencies (i.e., Federal, State, or local)?</b></p> <p>Permit requirements can have an unintended consequence on the visual environment. Anticipated permits, as well as specific permit requirements - which are defined by the permitted, may be determined by talking with the project Environmental Planner and Project Engineer. Note: coordinate with the Caltrans representative responsible for obtaining the permit prior to communicating directly with any permitting agency.</p>	<p>Yes (3 points) ▼</p>
<p><b>5. Will the project sponsor or public benefit from a more detailed visual analysis in order to help reach consensus on a course of action to address potential visual impacts?</b></p> <p>Consider the proposed project features, possible visual impacts, and probable mitigation recommendations.</p>	<p>Maybe (2 points) ▼</p>
<p><b>Calculate Total</b></p>	
<p><u>It is recommended that you print a copy of these calculations for the project file.</u></p>	
<p><b>PROJECT SCORE: 16</b></p>	

## Select An Outline Based Upon Project Score

The total score will indicate the recommended VIA level for the project. In addition to considering circumstances relating to any one of the ten questions-areas that would justify elevating the VIA level, also consider any other project factors that would have an effect on level selection.

### SCORE 6-9

No noticeable visual changes to the environment are proposed and no further analysis is required. Print out a copy of this completed questionnaire for your project file or Preliminary Environmental Study (PES).

### SCORE 10-14

Negligible visual changes to the environment are proposed. A brief Memorandum (see sample) addressing visual issues providing a rationale why a technical study is not required.

### SCORE 15-19

Noticeable visual changes to the environment are proposed. An abbreviated VIA is appropriate in this case. The assessment would briefly describe project features, impacts and any avoidance and minimization measures. Visual simulations would be optional. Go to the Directions for using and accessing the Minor VIA Annotated Outline.

### SCORE 20-24

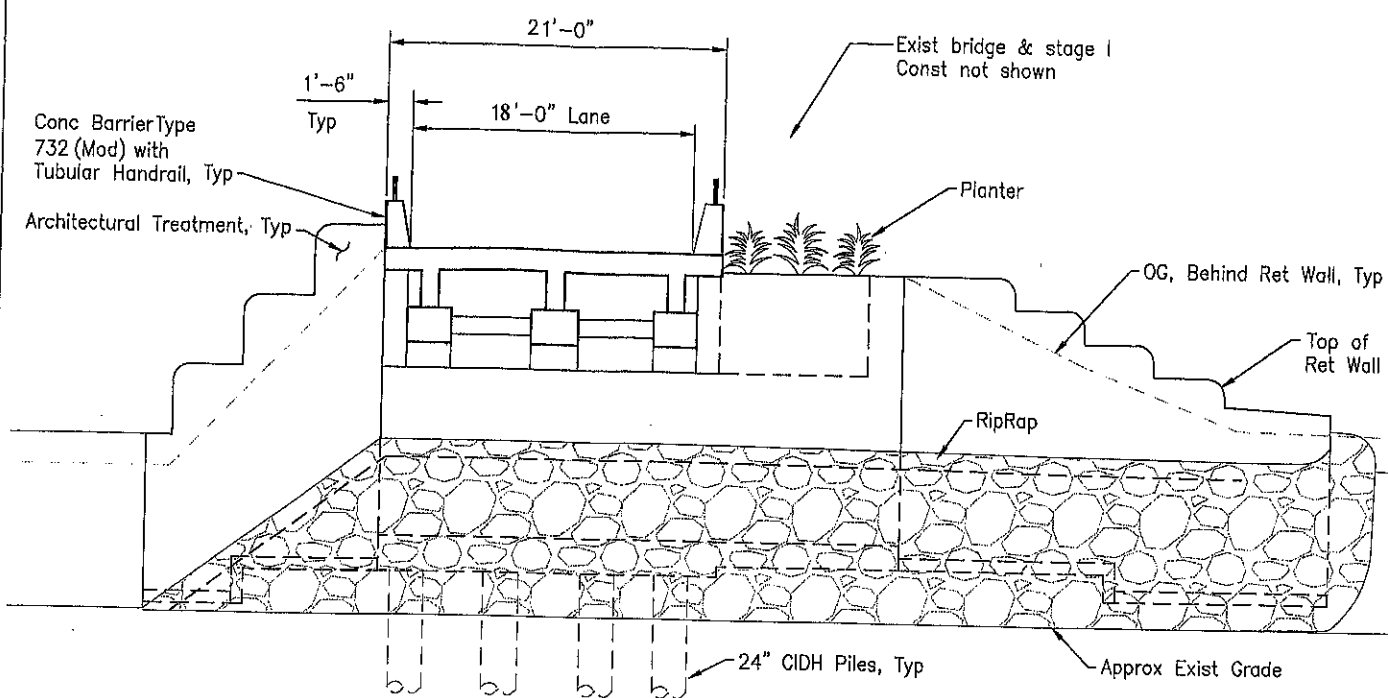
Noticeable visual changes to the environment are proposed. A fully developed VIA is appropriate. This technical study will likely receive public review. Go to the [Directions](#) for using and accessing the Moderate VIA Annotated Outline.

**SCORE 25-30**

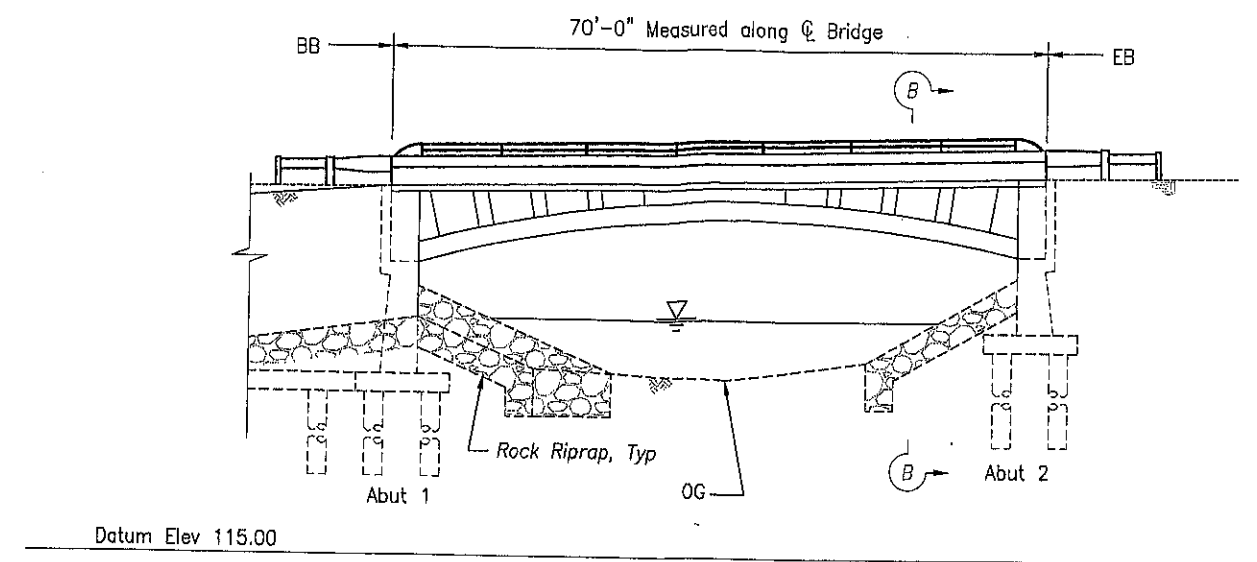
Noticeable visual changes to the environment are proposed. A fully developed VIA is appropriate that includes photo simulations. It is appropriate to alert the Project Development Team to the potential for highly adverse impacts and to consider project alternatives to avoid those impacts. Go to the [Directions](#) for using and accessing the Advanced/Complex VIA Annotated Outline.

Meadow Way Bridge - Geotracker Sites within 8,000 of Project Site

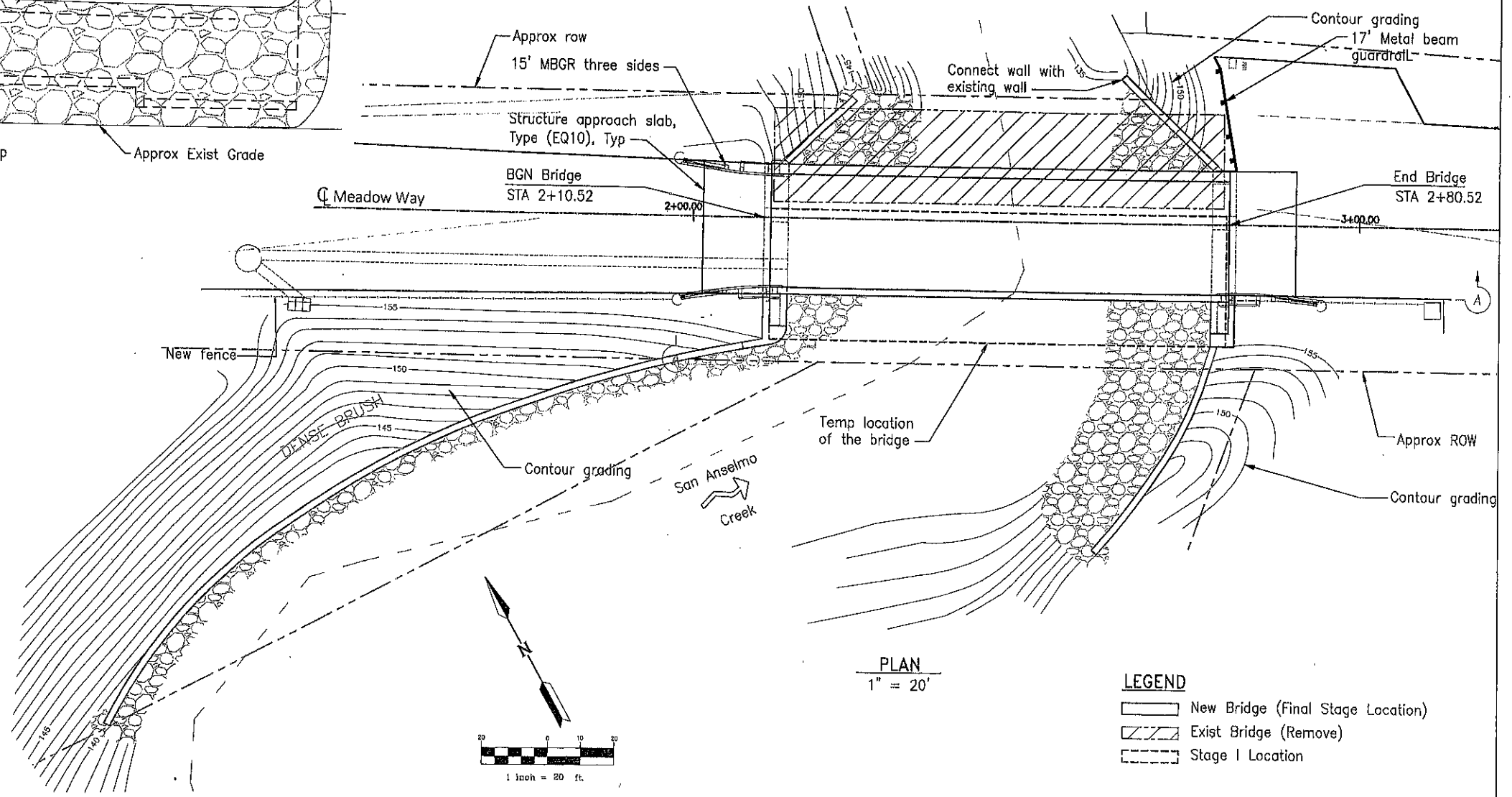
SITE NAME	GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY
ALFA GAS STATION	T0604133026		COMPLETED - CASE CLOSED	1789 SIR FRANCIS DRAKE BLVD	FAIRFAX
FAIRFAX CORPORATION YARD	T0604100223		COMPLETED - CASE CLOSED	142 BOLINAS RD	FAIRFAX
FAIRFAX GARBAGE DISPOSAL	T0604100293		COMPLETED - CASE CLOSED	1583 SIR FRANCIS DRAKE BLVD	SAN ANSELMO
FAIRFAX GAS		600138		2001 SIR FRANCIS DRAKE BLVD.	FAIRFAX
FAIRFAX GAS	T060417917		OPEN - REMEDIATION	2001 SIR FRANCIS DRAKE BLVD	FAIRFAX
FERRARO FAIRFAX SERVICE	T0604137652		COMPLETED - CASE CLOSED	1942 SIR FRANCIS DRAKE BLVD.	FAIRFAX
FERRARO FAIRFAX SERVICE		600140		1942 SIR FRANCIS DRAKE BLVD.	FAIRFAX
IGS		600261		1789 SIR FRANCIS DRAKE BLVD.	FAIRFAX
MARIN MUNICIPAL WATER DISTRICT - RANGER STATION		600211		50 SKYOAKS RD.	FAIRFAX
MEADOWS' CLUB GOLF COURSE	T0604100075		COMPLETED - CASE CLOSED	1001 BOLINAS RD	FAIRFAX
MOBIL	T0604100081		COMPLETED - CASE CLOSED	1535 SIR FRANCIS DRAKE BLVD	SAN ANSELMO
REDWOOD OIL COMPANY BP	T0604100108		COMPLETED - CASE CLOSED	1789 SIR FRANCIS DRAKE BLVD	FAIRFAX
SAN ANSELMO COTTAGES	T0604194021		COMPLETED - CASE CLOSED	1608 - 1616 SIR FRANCIS DRAKE BLVD	SAN ANSELMO
TEXACO	T0604100048		COMPLETED - CASE CLOSED	2400 SIR FRANCIS DRAKE BLVD	FAIRFAX



TYPICAL SECTION (VIEW B-B)  
3/32" = 1'-0"



ELEVATION A-A  
1" = 20'



PLAN  
1" = 20'

- LEGEND**
- New Bridge (Final Stage Location)
  - Exist Bridge (Remove)
  - Stage I Location

NO.	REVISIONS	BY	DATE	DESIGN BY :
△				DRAWN BY :
△				CHECKED BY :
△				SCALE : AS NOTED
△				DATE :
△				BRIDGE NO. :
△				PROJ NO. :

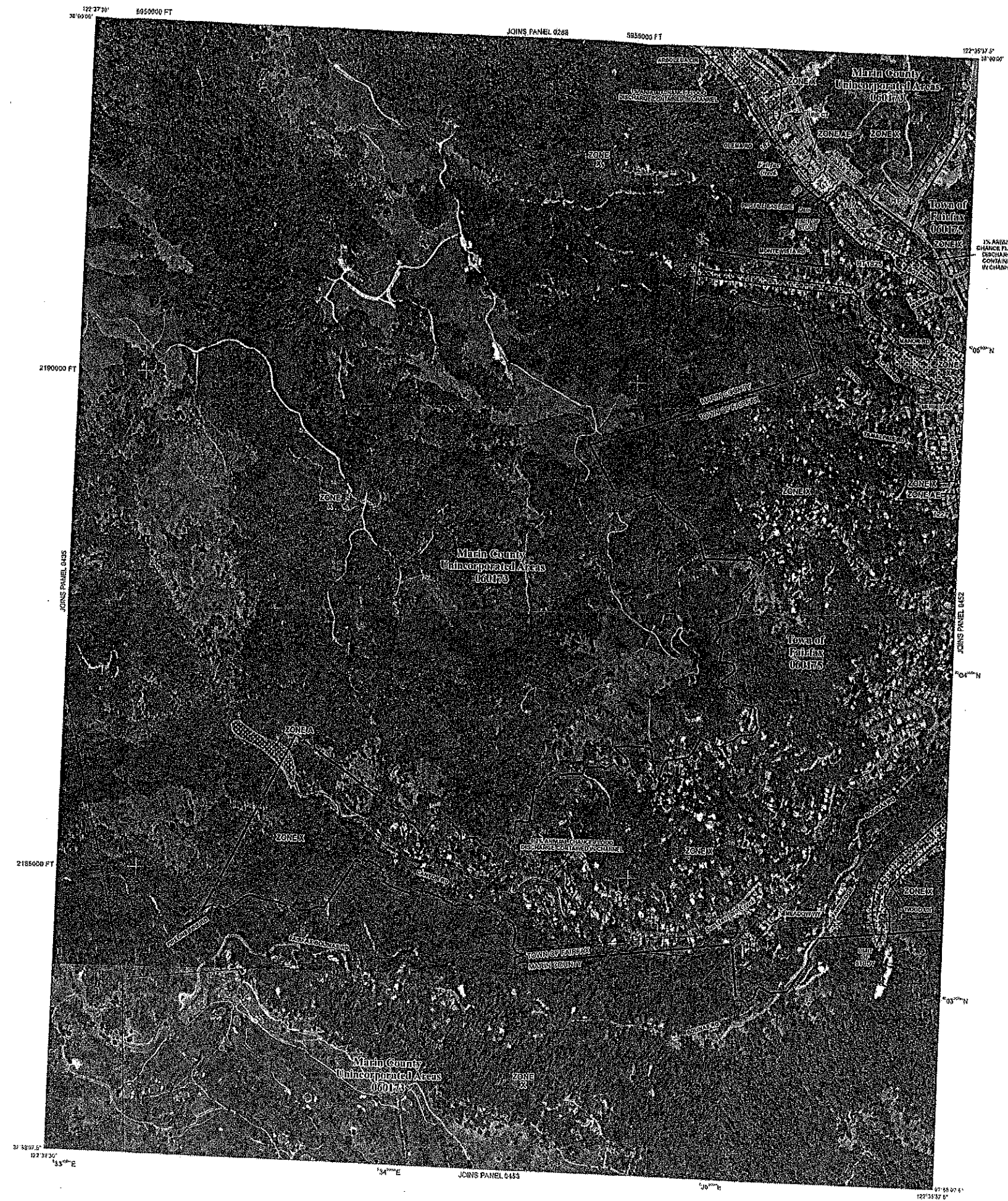
CALIFORNIA INFRASTRUCTURE CONSULTANCY  
930 ALHAMBRA BLVD. SUITE 220  
SACRAMENTO, CA 95816

TOWN OF FAIRFAX  
142 BOLINAS ROAD,  
FAIRFAX, CA 94930

MEADOW WAY BRIDGE REPLACEMENT

GENERAL PLAN

SHEET  
OF



### LEGEND

**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% Annual Flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AR1, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A** No 100-year flood elevations determined.

**ZONE AE** Base Flood Elevations determined.

**ZONE AH** Flood depths of 1 to 3 feet (usually areas of buildings base Flood Elevation determined).

**ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of unusual topography, velocities also determined.

**ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently destroyed. Zone AR includes that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

**ZONE AR1** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

**ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increase in flood heights.

**OTHER FLOOD AREAS**

**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.

**ZONE D** Areas in which flood heights are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

OPAs are areas that are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities
- Base Flood Elevation and value; elevation in feet
- Base Flood Elevation value where uniform within area; elevation in feet

\* Referenced to the North American Vertical Datum of 1985

- City section line
- County line
- Geographic coordinates (referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere)
- 1000-meter Universal Transverse Mercator grid values, zone 10
- 6000-foot grid (California State Plane coordinate system, zone III (NAD83-CA3), Lambert Conformal Conic projection)
- Depth mark (see explanation in notes to Users section of this FIRM panel)
- River sign

**MAP REPOSITORY**  
 Refer to listing of Map Repositories on Map Index

**EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP**  
 May 4, 2009

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**

For community map revision history prior to community mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or the National Flood Insurance Program at 1-800-638-6628.

**MAP SCALE 1" = 600'**

0 300 600  
 FEET  
 0 150 300  
 METERS

**PANEL 0451D**

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**MARIN COUNTY,**  
**CALIFORNIA**  
**AND INCORPORATED AREAS**

**PANEL 451 OF 531**  
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**COMMUNITY**

COMMUNITY	NUMBER	PANEL	SHEET
TAMPA, FLORIDA	00174	0451	0
MARIN COUNTY	00413	0451	0

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used in insurance applications for the subject community.

**MAP NUMBER**  
**06041C0451D**

**EFFECTIVE DATE**  
**MAY 4, 2009**

Federal Emergency Management Agency



# GEOTRACKER

1 meadow way, fairfax, ca

Map Address

## MAP LAYERS

- Leaking Underground Tank (LUST) Cleanup Sites
- Other Cleanup Sites
- Land Disposal Sites
- Military Sites
- WDR Sites
- Irrigated Lands Regulatory Program
- Permitted Underground Storage Tank (UST) Facilities
- Zoom in to See Field Points
- ▲ DTSC Cleanup Sites
- ▲ DTSC Haz Waste Permit
- DWR Groundwater Basins
- Public Water Systems - [INFO](#)

SIGNIFIES A CLOSED SITE

[Measure a Distance](#)

