



3.3 CULTURAL RESOURCES

This section presents the existing conditions of cultural resources and evaluates potential impacts to these resources resulting from the resumption of operations of the railroad, maintenance and repair activities associated with the operations of the railroad, rehabilitation activities at: Bakers Creek, Foss Creek, Black Point Bridge, and the new construction at Lombard Siding.

For the purpose of this assessment, the area of potential effect (APE) was determined to be a 400-foot wide corridor, (200 feet on each side of the railroad centerline); thus, the APE study area extends beyond the railroad right-of-way, and allows for evaluation of nearby sensitive structures and sites, as well as those within the immediate right-of-way operational area. This APE is consistent with other established rail project APEs in northern California, and is more comprehensive than the SMART APE, which was established via consultation with the State Historic Preservation Officer (SHPO).

The methodologies used to prepare the cultural resources setting and to evaluate potential impacts include a literature and database review conducted in 2008 of the following sources:

- Records search at the Northwest Information Center (NWIC);
- Records search of the California Office of Historic Preservation (OHP) database of historic properties for the Counties of Marin, Mendocino, Napa and Sonoma;
- Records search of the California Historic Resource Information System (CHRIS);
- Records search of the California Register of Historical Resources (CRHR);
- Records search of the National Register of Historic Places (NRHP);
- The Native American Heritage Commission (NAHC) and SHPO offices were contacted to help identify issues and concerns; and
- Literature review of the Historic Architectural Resources Technical Report for the Sonoma-Marin Area Rail Transit (SMART) Project (Garcia and Associates [GANDA], 2004). The GANDA study provided a local context, identified sites from the local registers, and reports results from a pedestrian survey of historic architecture along the SMART project area.



The following sub-sections include: (1) an overview of federal, state and local regulations that are in place to protect cultural resources; (2) a cultural resources setting, including Table 3.3-1, which includes a list of cultural/historic resources located within or adjacent to the APE; and (3) a discussion on potential impacts and proposed mitigation measures that would reduce any cultural resource impacts to less-than-significant levels.

3.3.1 Regulatory Setting

The regulatory setting is based on the information that was available in 2008 when the March 9, 2009 DEIR was under preparation.

3.3.1.1 *Federal Regulations*

The National Historic Preservation Act (NHPA) of 1966 (Public Law 89-665; 16 U.S.C. 470 et seq.), as amended is the center piece for historic preservation. This Act established the NRHP which serves as the nation's inventory of districts, buildings, structures, and objects significant in American history, architecture, archaeology, engineering, and culture.

In order to be eligible for inclusion on the NRHP, a property must be significant under one or more of the four evaluation criteria:

- A) Associated with events that have made a significant contribution to the broad patterns of history; or
- B) Associated with the lines of persons significant in our past; or
- C) Embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D) Yielded or may be likely to yield information important in history or pre-history.

In addition, a property must be able to convey its significance through the retention of specific aspects of its integrity. The seven aspects of integrity are:



- Location: the place where the historic property was constructed or the place where the historic event occurred.
- Design: the combination of elements that create the form, plan, space, structure, and style of a property.
- Setting: the physical environment of a historic property.
- Materials: the physical elements that were combined or deposited during a particular time and in a particular pattern or configuration to form a historic property.
- Workmanship: the physical evidence of the crafts of a particular culture of people during any given period in history or prehistory.
- Feeling: the property's expression of the aesthetic or historic sense of a particular period of time.
- Association: the direct link between an important historic event or person and a historic property.

In general, properties less than 50 years of age, unless of exceptional importance, are not eligible for the NRHP.

Section 106 of the NHPA (Section 106) requires agencies to take into account the effects of their undertakings on historic properties, and consult with the SHPO or the Tribal Historic Preservation Officer (THPO), if the undertaking occurs on tribal lands and the tribe has assumed the SHPO functions. The goal of consultation is to identify historic properties potentially affected by the undertaking, assess the effects of undertaking on historic properties, and seek ways to avoid, minimize or mitigate adverse effects to historic properties (36 CFR 800 – Protection of Historic Properties)

The Section 106 process includes:

1. § 800.4 Identification of historic properties
 - (a) Determine scope of identification efforts
 - (b) Identify historic properties within the APE
 - (c) Evaluate historic significance
 - (d) Results of identification and evaluation



- (1) No historic properties affected
 - (2) Historic properties affected
2. § 800.5 Assessment of adverse effects. If historic properties are potentially affected, the effect needs to be evaluated.
- (a) Apply criteria of adverse effect to historic properties within the APE
 - (1) *Criteria of adverse effect:* An adverse effect is found when an undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the NRHP in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. Consideration shall be given to all qualifying characteristics of a historic property, including those that may have been identified subsequent to the original evaluation of the property's eligibility for the register.
 - (2) *Examples of adverse effects.* Adverse effects on historic properties include, but are not limited to:
 - i. Physical destruction of or damage to all or part of the property;
 - ii. Alteration of a property, including restoration, rehabilitation, repair, maintenance, stabilization, hazardous material remediation and provision of handicapped access, that is not consistent with the Secretary's Standards for the Treatment of Historic Properties (Secretary's Standards) (36 CFR part 68) and applicable guidelines;
 - iii. Removal of the property from its historic location;
 - iv. Change of the character of the property's use or of physical features within the property's setting that contributes to its historic significance;
 - v. Introduction of visual, atmospheric or audible elements that diminish the integrity of the property's significant historic features;
 - vi. Neglect of a property which causes its deterioration, except where such neglect and deterioration are recognized qualities of a property of religious and cultural significance to an Indian tribe or Native Hawaiian organization; and



- vii. Transfer, lease, or sale of property out of federal ownership or control without adequate and legally enforceable restrictions or conditions to ensure long-term preservation of the property's historic significance.
- (b) *Finding of no adverse effect.* The agency official, in consultation with the SHPO/THPO, may propose a finding of no adverse effect when the undertaking's effects do not meet the criteria of paragraph (a)(1) of this section or the undertaking is modified or conditions are imposed, such as the subsequent review of plans for rehabilitation by the SHPO/THPO to ensure consistency with the Secretary's Standards, to avoid adverse effects.

Secretary of the Interior's Standards for the Treatment of Historic Properties: The Secretary of Interior is responsible for establishing standards for the treatment of Historic Properties listed or eligible for listing in the NRHP. These standards are set forth in 36 CFR 68, and include guidelines for Preservation, Rehabilitation, Restoration, and Reconstruction. These standards include:

1. Every reasonable effort shall be made to provide a compatible use for a property that requires minimal alteration of the building, structure, or site and its environment, or to use a property for its originally intended purpose.
2. The distinguishing original qualities or character of a building, structure, or site and its environment shall not be destroyed. The removal or alteration of any historic material or distinctive architectural features should be avoided when possible.
3. All buildings, structures, and sites shall be recognized as products of their own time. Alterations which have no historical basis and which seek to create an earlier appearance shall be discouraged.
4. Changes which have taken place in the course of time are evidence of the history and development of a building, structure, or site and its environment. These changes may have acquired significance in their own right, and this significance shall be recognized and respected.
5. Distinctive architectural features or examples of skilled craftsmanship which characterize a building, structure, or site shall be treated with sensitivity.



6. Deteriorated architectural features shall be repaired rather than replaced, wherever possible. In the event replacement is necessary, the new material should match the material being replaced in composition, design, color, texture, and other visual qualities. Repair or replacement of missing architectural features should be based on accurate duplications of features, substantiated by historic, physical, or pictorial evidence rather than on conjectural designs or the availability of different architectural elements from other buildings or structures.
7. The surface cleaning of structures shall be undertaken with the gentlest means possible. Sandblasting and other cleaning methods that will damage the historic building materials shall not be undertaken.
8. Every reasonable effort shall be made to protect and preserve archeological resources affected by, or adjacent to, any acquisition, stabilization, preservation, rehabilitation, restoration, or reconstruction project.

In summary, work on historic properties must be in such a manner so as to protect the distinguishing historic character of the property. Work done "in kind" with similar design, appearance and materials is in general keeping with the standards.

3.3.1.2 *State Regulations*

The California Public Resources Code Sections 5020-5029 (inclusive) provide the regulatory framework for state agencies regarding the inventory, evaluation and protection of historical properties and resources of significance. The codes state: No state agency shall alter the original or significant historical features or transfer, relocate, or demolish historical resources on the master list pursuant to subdivision (d) of Section 5024 without (early in the planning process) first giving notice and a summary of the proposed action to SHPO who shall have 30 days after receipt of the notice and summary, to review and comment. (Public Resources Code [PRC] Section 5024.5a)

Resources listed in, or determined to be eligible for listing in, the CRHR are resources that are required to be given consideration in the CEQA process. A resource listed in, or eligible for listing in, the CRHR is presumed to be historically or culturally significant: this includes listed archaeological resources. The CRHR is an authoritative guide to the State's historical resources, and listed properties are considered significant for purposes of CEQA. The CRHR includes resources listed in or formally determined eligible for



listing in the NRHP, as well as some California State Landmarks and Points of Historical Interest. Properties of local significance that have been designated under a local preservation ordinance (local landmarks or landmark districts), or that have been identified in a local historical resources inventory may be eligible for listing in the CRHR and are presumed to be significant resources for purposes of CEQA, unless a preponderance of evidence indicates otherwise (PRC § 5024.1, 14 CCR § 4850).

However, a resource does not need to have been identified previously either through listing or survey, to be considered significant under CEQA. In addition to assessing whether historical resources potentially impacted by a proposed project are listed or have been identified in a survey process, lead agencies have a responsibility to evaluate them against the CRHR criteria prior to making a finding as to a proposed project's impacts to historical resources (PRC § 21084.1, 14 CCR § 15064.5(3)). Generally, a resource will be considered by the lead agency to be "historically significant" if it meets the criteria for listing on the CRHR (Pub. Res. Code SS5024.1, Title 14 CCR, Section 4852) including the following:

- Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
- Is associated with the lives of persons important in our past;
- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
- Has yielded, or may be likely to yield, information important in prehistory or history.

Historic resources eligible for listing in the CRHR must meet one of the criteria of significance described above, and like the NRHP, must retain enough of their historic character to be recognizable and to convey the reasons for their significance. Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. It must also be judged with reference to the particular criteria under which a resource is proposed for eligibility. Alterations over time to a resource or historic changes in its use may themselves have historical, cultural, or architectural significance. It is possible that historical resources may not retain sufficient integrity to meet the criteria for listing in the NRHP, but they may still be eligible for



listing in the CRHR. A resource that has lost its historic character or appearance may still have sufficient integrity for the CRHR, if it maintains the potential to yield significant scientific or historical information or specific data.

If impacts are deemed to be adverse, prudent and feasible measures will be made to eliminate or mitigate the adverse effects. (PRC Section 5024.5 b). Until such time as a structure is evaluated for inclusion in the inventory, state agencies shall assure that any structure that might qualify for listing is not inadvertently transferred or unnecessarily altered (PRC Section 5024.5 f). A substantial adverse change to a historic resource, includes: demolition, destruction, relocation, or alteration such that the significance of the resource would be impaired (PRC § 5020.1(q)). A project that has been determined to conform to the Secretary's Standards can generally be considered to not cause a significant impact (14 CCR § 15126.4(b)(1)). In fact, in most cases if a project meets the *Secretary's Standards* it can be considered categorically exempt from CEQA (14 CCR § 15331). Mitigation of significant impacts must lessen or eliminate the physical impact that the project will have on the historical resource.

Archeological Resources: Section 15064.5 (Title 14 Chapter 3 Article 5) of CEQA sets the requirements for the analysis of archaeological resources in determining whether a project will have a substantial effect on the significance of resources. It also specifically addresses those resources determined to be eligible by the State Historical Resources Commission for listing on the CRHR. There are provisions for the identification of resources on local registers, these provisions require public agencies to treat those resources as significant.

Human Remains: In accordance with California Health and Safety Code Section 7050.5 (b), if human remains are discovered during ground disturbing activities, the County Coroner must be notified. Section 7050.5 (b) states that "there shall be no further excavation or disturbance of the site or any nearby area reasonably expected to overlie adjacent remains....". until the coroner has made certain determinations as required by California Government Code, commencing with Section 27460. If the coroner determines that the remains are not subject to his or her Health and Safety Code 7050.5 (c) states "If the coroner determines that the remains are not subject to his or her authority and if the coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, he or she shall contact, by telephone within 24 hours, the NAHC."



Upon notification by the coroner, the NAHC must comply with PRC Section 5097.98:

- (a) Whenever the commission receives notification of a discovery of Native American human remains from the county coroner pursuant to subdivision (c) Section 7050.5 of the Health and Safety Code:
 1. It shall immediately notify those persons it believes to be most likely descended from the deceased Native American.
 2. The descendants may, with the permission of the owner of the land, inspect the site of the discovery of the Native American human remains and recommend means for treatment or disposition, with appropriate dignity, of the human remains and any associated grave goods. The descendants shall complete their inspection and make recommendations or preferences for treatment within 48-hours of being granted access to the site.

- (b) Upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the landowner has discussed and conferred, as prescribed in this section, with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment.

3.3.1.3 *Local Policy*

Mendocino County

Mendocino County General Plan includes an Open Space and Conservation element that pertains to historical and cultural areas. This component of the Plan recognizes the importance of these resources and identifies the objective of identifying and preserving areas of major historical and archaeological significance.

Within Mendocino County, a draft Ukiah Valley Area Plan was adopted in 2003 which has a Historic and Archaeological Resources component that recognizes the significance of these resources and the need to provide for preservation. The County



has an Archaeological Resources Ordinance which established an Archaeological Commission that reviews impacts to archaeological resources from discretionary projects. Projects similar to the proposed project are referred to the NWIC, which provides a records review and may make recommendations regarding the need for additional study. Other than these guidelines and recommendations, the County has no requirements beyond those in the State Historic Building Code.

Napa County

The Napa County General Plan identifies two goals in the Conservation and Open Space Element relevant to the preservation of historic resources. Goal III B (Areas of Outstanding Historical and Archaeological Value) Policy 3 supports the preservation and scientific study of unique historical and archaeological value. A plan is contained within the element for the identification planning and protection of resources. Goal III C (Areas of Scenic Value) includes a goal to identify and preserve the area's architectural and historical landmarks.

There are several organizations involved with the cultural resources of Napa County. The Napa County Historical Society is a well-established organization dedicated to the discovery and preservation of historical resources. There is also a very active non-profit organization, called Napa County Landmarks, whose mission is to protect a record of the past by promoting the saving of historic buildings and sites through education, public policy advocacy, research and technical assistance.

Sonoma County

Sonoma County has a historic preservation goal within the Open Space Element of the General Plan which is designed to preserve significant resources within the County. Objective OS-9.1, listed under the goal, stresses the preservation and conservation of historic structures. Article 68 of the Zoning Code Regulations also established the Historic Combining District for the purpose of providing direction for the preservation of structure sites and areas which provide significant historic resources and architectural styles.



City of Cloverdale

The City of Cloverdale's General Plan (1993) Conservation and Open Space element addresses historic preservation: Goal D is to identify, preserve, and enhance the historic and prehistoric cultural resources of Cloverdale. Specific policies related to this goal focus on identification of resources and include:

- Make an effort to identify historically significant structures, i.e. those with any of the following attributes: representative of a unique style of architecture, typical of a type of architecture considered significant either locally or throughout the state (such as the Victorians of San Francisco), or a structure associated with either an important local or wider-known individual or event important locally or throughout the region.

City of Healdsburg

City of Healdsburg provides for historic preservation with overarching historic preservation goals and specific policies. Healdsburg's General Plan Policy Document (1987, revised 2004) includes several sections in Part II that describe goals pertaining to these resources. In the Land Use section, Goal E, Policy 3 states that the following:

- The historic railroad depot is the designated center for Healdsburg. The designation of this facility shall not be deemed to preclude the development of other uses under the General Plan. Other potential transit facility sites in the community may be considered provided they are minor facilities or support the railroad depot facility use and are based on the results of further planning, circulation and environmental analyses.

There are two other goals described in Part II, Section VI of the General Plan pertaining to Cultural and Recreational Resources. These goals include policies to support historic preservation as follows: Goal D intends to preserve and enhance Healdsburg's historical heritage sites through establishment of policies; and Goal E intends to protect Healdsburg's Native American heritage.

The City of Healdsburg adopted an ordinance in 1987 creating procedures for the establishment of City designated historic districts, landmarks, and historic buildings. This



ordinance was subsequently incorporated into the City Zoning Ordinance adopted in 1998.

Town of Windsor

Similar to other jurisdictions, the Town of Windsor General Plan (1995) includes policies which support historic preservation. Chapter 6, Environmental Resources, Part E, Cultural Resources includes the following:

- E.1 Identify and preserve significant cultural or historical sites or structures within the Town.
- E.2 Promote public awareness of and support for historic preservation, and encourage both visual and physical access to historic properties, whenever appropriate.

City of Santa Rosa

Recognizing the value of the City of Santa Rosa's historic resources, the City Council adopted a Preservation Ordinance in 1988 and created the City's Cultural Heritage Board. Santa Rosa's on-going support of preservation planning is also expressed in the City's 2020 General Plan which includes a separate Preservation Element, Element 11, Historic Resources, in the City of Santa Rosa's 2020 General Plan. Railroad Square is called out as an example of a historic landmark.

The City of Santa Rosa Zoning Code, Title 20, provides for an Historic Combining District (20-28.040) "to preserve and/or enhance neighborhood character and residential privacy within designated historic districts by establishing height limits for structures proposed within the combining district that are more restrictive than the height limits of the primary zoning district."

City of Rohnert Park

In support of historic preservation, the City of Rohnert Park General Plan (2000), Section 6.1, Historic and Archaeological Resources, policy (EC-A) states: "Conserve historic and archaeological resources for the aesthetic, educational, economic, and scientific contribution they make to Rohnert Park's identity and quality of life". Although the City of Rohnert Park's Zoning Ordinance does not address historic resources



specifically, development projects involving either new building construction and/or the significant remodeling of existing structures require architectural and design review.

City of Cotati

The City of Cotati has developed around a central plaza (a registered historical landmark). In the City of Cotati General Plan (1990), historic preservation focused on this plaza and on general design guidelines to preserve Cotati's community identity.

City of Petaluma

The Central Petaluma Specific Plan (2003) addresses historic preservation within the Specific Plan area through policy direction, as well as providing a survey of potential resources. More specifically it states:

Objective 2: Preserve the industrial and commercial complex of structures, including the resources within the Petaluma Historic Commercial District.

Marin County

Review procedures have been built within the Marin Countywide Plan (2007) to consider the preservation of cultural and archaeological resources. Policy HAR-1.1 states that archaeological and historical resources should be identified and preserved. Policy HAR-1.3 states that impacts to historical resources should be avoided, and that it should be ensured that human activities avoid damaging cultural resources.

City of Novato

The City of Novato General Plan (2003) in Chapter IX, Community Identity, includes the following policy in support of historic preservation:

CI Policy 31 - Historic Buildings, Sites and Districts. Identify, recognize and protect sites, buildings, structures and districts with significant cultural, aesthetic and social characteristics which are part of Novato's heritage.

The Downtown Specific Plan supports the General Plan through its design guidelines.



3.3.2 Environmental Setting

The environmental setting is based on the information that was available in 2008 when the March 9, 2009 DEIR was under preparation.

For the purpose of this cultural resource setting and impact assessment, the proposed project's APE was determined to be a 400-foot wide corridor, (200 feet on each side of the railroad centerline); thus, the APE study area extends beyond the railroad right-of-way, and allows for evaluation of nearby sensitive structures and sites, as well as those within the immediate right-of-way operational area. This APE is consistent with other established rail project APEs in northern California, and is more comprehensive than the SMART APE, which was established via consultation with the SHPO.

In conformance with the protocols established in "California Office of Historic Preservation Technical Assistance Series #1: CEQA and Historical Resources" (Office of Historic Preservation, 5/23/01), the cultural resource evaluation included a records search conducted by the NWIC of the CHRIS. In addition to the NWIC records search, SHPO was contacted (SHPO E-mail Communication by Dwight Dutschke, 12-12-07), and a review of the National Register for Historic Resources database was conducted. Additionally, a study prepared for the SMART project (GANDA 2004) was reviewed to provide additional detail. The GANDA study provided a local context, identified sites from the local registers, and reports results from a pedestrian survey of historic architecture along the SMART project area.

The results of the records search indicated that the proposed project area has been extensively studied. A total of 364 cultural resource studies were conducted within the APE which ranged in size from parcels smaller than an acre to studies which encompass the entire APE (NWIC, 2007).

The California NAHC was contacted in regards to the actions associated with the proposed project. On November 30, 2007 NCRA Executive Director, Mitch Stogner, sent out a solicitation for issues and comments to a list of contacts provided by the NAHC. The solicitation included a brief project description, anticipated BMPs in regards to archaeological resources and a point of contact for further information. No responses have been received to date.



The SHPO was also contacted to identify concerns regarding the proposed project. Preliminary review by the SHPO is that there are no concerns about the operations of the railroad; however, the SHPO will provide additional comment after the review of the DEIR (SHPO e-mail communication by Dwight Dutschke, 12-12-07). The SHPO will also continue to be consulted during the rehabilitation and construction activities.

Table 3.3-1 provides a summary of historic resources within the established project APE and the supporting documentation provided by NWIC is provided in Appendix G. The sites identified in the Table 3.3-1 represent information stemming from NWIC (Lisa Hagel Memo and Records Search NWIC File # 06-1551, April 19, 2007), the NRHP, and the SMART GANDA study. These sites are historic (50 years or older from the date of discovery) and/or prehistoric (dated prior to the written record usually identified as European contact or older) in nature, and run the range of complexity from isolated lithic remains to historic townsites. Moreover, portions and components of the railroad, itself, are classified as historic sites and qualify as such. As expected, there is a general concentration of historic resources within, or very near, towns and cities.

It should be noted that historic resources sites identified within the APE and deemed by NWIC #523 Forms as sensitive and confidential have been analyzed but are not included in the table below for their protection.



**Table 3.3-1
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
MENDOCINO COUNTY				
	P-23-003125	North State Street, near Capella	Mansoletti/Hillcrest Winery	Not evaluated.
	P-23-003663		NWPRR potential Historic District	Not evaluated.
Willits				
	DOE-23-00-0068- 9999 FHWA000717A	200, 201, 203 E. Valley Street, 60, 174, 206, 222 and 238 Madden Lane, 188 and 195 Mendocino Street	Historic District	2S2 – Determined eligible for listing in the NRHP. Listed in CRHR.
	DOE-23-00-0066- 000 FHWA000717A		California Western Railroad	2S2 – Determined eligible for listing in the NRHP.
	P-23-001890		Skunk Train Trestle	Not evaluated.
	NPS-99001262- 9999 NR 23-0050	E. Commercial Street	Willits Depot-Northwestern Pacific Railroad	1S/3S – Contributor to a district or multiple resource property that is listed in the NRHP. Listed in the CRHR.
	NPS-99001262- 0002	E. Commercial Street	Restaurant Building	1D – Contributor to a district or multiple resource property that is listed in the NRHP. Listed in the CRHR.
	NPS-99001262- 0001	E. Commercial Street	Willits Depot Breezeway	1D – Contributor to a district or multiple resource property that is listed in the NRHP. Listed in the CRHR.
	NPS-99001262- 0003	E. Commercial Street	Baggage Building	1D – Contributor to a district or multiple resource property that is listed in the NRHP. Listed in the CRHR.



PUBLIC DRAFT

3.0 ENVIRONMENTAL SETTING, IMPACTS, AND MITIGATION MEASURES

3.3 CULTURAL RESOURCES

**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
Ukiah				
	P-23-003460	291 E. Clay Street		6Z - Ineligible for the NRHP.
	P-23-003461	276 E. Clay Street	Holz Company Store	3S – Appears eligible for NRHP.
	P-23-003462	309 E. Perkins Street	(Possibly)TWFC sheds	6Z – Ineligible for the NRHP.
	P-23-003463	309 E. Perkins Street	Ukiah Passenger Railroad Depot	3S – Appears eligible for NRHP.
	P-23-003463 HRI: 5482-0113-0000	305 E. Perkins Street	Northwestern Pacific Railroad Depot	5S2 – Appears eligible for NRHP as an individual property through survey evaluation.
	P-23-003464	308 E. Perkins Street	NW Pacific freight warehouse	6Z – Ineligible for the NRHP.
	P-23-003465	Leslie Street	Platform structure	6Z – Ineligible for the NRHP.
	P-23-003466	124 Leslie Street	Commercial Building	6Z – Ineligible for the NRHP.
	P-23-003467	134 Leslie Street	Commercial Buildings	6Z – Ineligible for the NRHP.
	P-23-003468	136 Leslie Street	General Petroleum warehouse	6Z – Ineligible for the NRHP.
	P-23-003700 5482-0055-0000	200 Ford Street	Holman Beatty/Briggs Brickyard/ Empire Milling Company	7N - May become eligible for listing on the NRHP.
	P-23-003873	137 Ford Street	Single family residence	Not evaluated.
	HRI: 5482-0082-00000	220 Mason Street	Mason Residence	5S2 – Eligible for local listing or designation.
	HRI: 5482-0083-0000	224 Mason Street	McCowen Property	5S2 – Eligible for local listing or designation.
	HRI: 5482-0026-0000	211 Clara Avenue	Waldo Residence/Venturi Residence	5S2 – Eligible for local listing or designation.
	P-23-003463 HRI: 5482-0113-0000	305 E. Perkins Street	Northwestern Pacific Railroad Depot	5S2 – Eligible for local listing or designation.



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
Hopland				
	NR-23-0040 Tax Cert 537.9-23-0002	13401 SR 101	Thatcher Hotel	3S/2D3 – Appears eligible for NR as an individual property through survey evaluation.
SONOMA COUNTY				
	Trestle 23 (GANDA)	Petaluma River MP 37.0 – 8.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Pole 73-75 (GANDA)	MP 37.0 - 8.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Pole 73 (GANDA)	MP 36.0 - 7.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Signal Light 2 (GANDA)	MP 36.0 - 7.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Pole 68-71 (GANDA)	MP 36.0 - 7.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Culvert 34 (GANDA)	MP 36.0 - 7.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Pole 63-67 (GANDA)	MP 36.0 - 7.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Trestle 22 (GANDA)	MP 35.0 - 6.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).



Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE

County/ City	Resource Number	Address/ Location	Name	Register Status
	Pole 61-2 (GANDA)	MP 35.0 - 6.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	X Marker 3 (GANDA)	MP 35.0 - 6.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Culvert 33 (GANDA)	MP 35.0 - 6.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Pole 59-60 (GANDA)	MP 35.0 - 6.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Pole 52-8 (GANDA)	MP 34.0 - 5.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Culvert 32 (GANDA)	MP 34.0 - 5.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Fishing Shack (GANDA)	MP 34.0 - 5.0	Petaluma River delta fishing shack	Appears eligible for CRHR or Sonoma County register as an individual property through survey evaluation (GANDA 2004).
	Pole 43-51 (GANDA)	MP 34.0 - 5.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Trestle 21 (GANDA)	MP 34.0 - 5.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Pole 40-42 (GANDA)	MP 34.0 - 5.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
	Pole 39 (GANDA)	MP 33.0 - 4.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Trestle 20 (GANDA)	MP 33.0 - 4.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Pole 38 (GANDA)	MP 33.0 - 4.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Culvert 31 (GANDA)	MP 33.0 - 4.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Culvert 30 (GANDA)	MP 32.0 - 3.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Pole 35-7 (GANDA)	MP 32.0 - 3.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Trestle 19 (GANDA)	MP 32.0 - 3.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Switch 19 (GANDA)	MP 31.0 - 2.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Pole 28-34 (GANDA)	MP 31.0 - 2.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Siding 4 (GANDA)	MP 31.0 - 2.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
	Switch 18 (GANDA)	MP 31.0 - 2.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	Signal Light 1 (GANDA)	MP 31.0 - 2.0		3D – Appears eligible as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	P-49-002699	Alexander Valley Road	Road-related structures	Not evaluated.
	P-49-002834	Sonoma County	Northwestern Pacific Railroad	Not evaluated.
	P-49-002875	Mitchell Lane	Buildings	Not evaluated.
	P-49-002896	Archaeological (not for publication)		Not evaluated.
	P-49-003268	Sears Point	Sonoma Valley Railroad	Not evaluated.
	P-49-003279	Sears Point	Residence	Not evaluated.
	CA-SON-226 & C- 164 (field name)	Sears Point/ Cuttings Wharf		Not evaluated.
	CA-SON-226 & C- 165 (field name)	Cuttings Wharf		Not evaluated.
	C-1309	Petaluma River, McNear Crossing MP 37.0 - 8.0	Northwestern Pacific Railroad Petaluma River RR Bridge (Haystack Bridge)	3B – Appears eligible for NRHP both individually and as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
	C-1310	MP 22.6 Petaluma R., Near Ignacio	Northwestern Pacific Railroad Petaluma River RR Bridge (Black Point Bridge)	3S – Appears eligible for NRHP as an individual property through survey evaluation.
	HRI: 5476-0325- 0000	MP 13.6 Near Schellville	Wingo Railroad Station	3S – Appears eligible for NRHP as an individual property through survey evaluation.



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
Cloverdale				
	NPS-76000536-0000 FHWA891010Z	Railroad Avenue	Cloverdale Railroad Station	1S/2S2 – NRHP Listed.
	HRI: 5425-0010-9999 SHL-0981-0000 5425-0010-0001 (barn)	Asti Road	Icaria-Speranza Commune and Barn	7R/1CL – CRHR listed 3S (barn).
Asti				
	N/A	26800 Asti Road	Redwood Empire Mill	Appears eligible for CRHR as an individual property through survey evaluation. (GANDA 2004).
	HRI: 5413-0001-9999 SHL-0621-0000	26150 Asti Road	Swiss-Italian Colony Asti Station	California State Landmark No. 621.
Geyserville				
	HRI: 5441-0012-0000	19585 South Geyserville Road	Nervo/Canyon Road Winery	3S – Appears eligible for NRHP as an individual property through survey evaluation. (Langhart Museum/City of Healdsburg inventory 1983).
	CA-SON-1275H	Geyserville Road	Agriculture complex	Not evaluated.
	P-49-003277	20750 Geyserville Avenue	Commercial buildings	6Y2 – Determined ineligible for the NRHP by consensus.
		21048 Railroad Avenue		3S – Appears eligible for CRHR both individually and as a contributor to a CRHR eligible district through a survey evaluation (GANDA 2004).



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
		21040 Railroad Avenue		3S – Appears eligible for CRHR both individually and as a contributor to a CRHR eligible district through a survey evaluation (GANDA 2004).
		90 Walden		3S – Appears eligible for CRHR both individually and as a contributor to a CRHR eligible district through a survey evaluation (GANDA 2004).
Healdsburg				
	P-49-002823 P-49-002824 P-49-002825 P-49-002826	359 Hudson Street	Healdsburg Lumber Mill Complex – buildings	3D – Appears eligible as a contributor to a NR eligible district through survey evaluation.
	P-49-002828	313 Mason Street	Warehouse	6Z – negligible for the NRHP.
	P-49-002829	312 Mason Street	Residence	6Z – Ineligible for the NRHP.
	P-49-002830	315 Mason Street	Residence	6Z – Ineligible for the NRHP.
	P-49-002831	319 Harmon Street	Residence	6Z – Ineligible for the NRHP.
	P-49-002832	329 Harmon Street	Residence	3S – Appears eligible for NRHP as an individual property through survey evaluation.
	P-49-002833	Railroad depot buildings	Northwestern Pacific Railroad	Not evaluated.
	P-49-002834	Railroad line and features from West Slough north about 1.25 miles, near in	Northwestern Pacific Railroad	Not evaluated.
	P-49-002908	13604 Healdsburg Avenue	Farm residence and buildings	Not evaluated.
	SON-HRI-175	20 W. Grant Street	L.A. Norton Cottage	6T-Z – Determined ineligible for the NRHP.



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
	HRI: 5448-0155-0000	16275 Healdsburg Ave.	Simi Winery	3S – Appears eligible for NRHP as an individual property through survey evaluation. (Langhart Museum/City of Healdsburg inventory 1983).
	HRI: 5448-0005-0000	845 Healdsburg Avenue	Olivetto Winery	3S – Appears eligible for NR HP as an individual property through survey evaluation. (Langhart Museum/City of Healdsburg inventory 1983).
	HRI: 5448-0084-0000	217 Healdsburg Ave.	Healdsburg Chamber of Commerce Building	3S – Appears eligible for NRHP as an individual property through survey evaluation. Adjacent to bicycle/pedestrian pathway. (Langhart Museum/City of Healdsburg inventory 1983).
	HRI: 5448-0145-0000	N/A	Healdsburg Russian River Railroad Bridge	3S – Appears eligible for NRHP as an individual property through survey evaluation. Previously evaluated.
	HRI: 5448-0100-0000	316 Hudson Street	Healdsburg Station and Freight Depot	3S – Appears eligible for NRHP as an individual property through survey evaluation (GANDA 2004).
	HRI: 5448-0253-9999	Ward Street, Railroad Avenue, Adeline	Healdsburg Ward Street Historic District	5D1 – Contributor to a district that is listed or designated locally. Previously evaluated.
	HRI: 5448-0088-0000	128 Mill Street	Roma Winery/ Sunsweet prune packing	5S1 – Individual property that is listed or designated locally. (Langhart Museum/City of Healdsburg inventory 1983).
	HRI: 5448-0103-0000	420 Hudson Street	Roma Vista Winery	5S1 – Individual property that is listed or designated locally. (Langhart Museum/City of Healdsburg inventory 1983).
	Turntable 1 (GANDA)		The Healdsburg Turntable	3S – Appears eligible for NRHP as an individual property through survey evaluation (GANDA 2004)



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
	Switch 58 (GANDA)			3D – Appears eligible for NRHP as a contributor to an NR-eligible district through survey evaluation (GANDA 2004).
	Call Box 3 (GANDA)			3D – Appears eligible for NRHP as a contributor to an NRHP-eligible district through survey evaluation (GANDA 2004).
Santa Rosa				
	C-1336	Corner of Sebastopol & Boyd Avenue; sawtooth industrial bldg.		Not evaluated.
	C-1337 HUD940425A HRI: 5402-0266-0000	8 Sebastopol Road (field name)	National Ice and Cold Storage Company	6Y – Determined ineligible for the NRHP by consensus. 3S – Appears eligible for NRHP as an individual property through survey evaluation.
	C-1338 HUD940425A	1 Sebastopol Ave.	Redwood Feed and Milling Co./Alvers R-Way Feed Co	2S2 – Appears eligible for CRHR as an individual property through survey evaluation (GANDA 2004).
	C-1338 HUD940425A	1 Sebastopol Avenue (field name)	Redwood Feed and Milling Company/ Albers R-Way Feed Company	6Y – Determined ineligible for the NRHP by consensus.
	P-49-001713 DOE-49-96-0007-0000 FHWA951215A	850 Hearn Avenue	Phoebe & Emmet Hart Farm	6Y – Determined ineligible for the NRHP by consensus.
	P-49-001759	2111 San Miguel Avenue	Castor Family Farmstead	Not evaluated.
	P-49-002304	2 W. Third Street	Days Inn Hotel	6 – Determined ineligible for the NRHP.



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
	P-49-002599	509 Adams Street	Commercial Building	4R – May become a contributor to a district that is locally listed, designated, determined eligible or appears eligible. 5S3 – Not eligible for local listing.
	P-49-002834	Railroad tracks between 6 th Street and College Avenue	Northwestern Pacific Railroad	Eligible as contributor to North Railroad Historic District.
	P-49-003022	2 W. Third Street	Warehouse	6 – Determined ineligible for the NRHP.
	P-49-003135	1090 Jennings Avenue	Alberto Tesconi Farm	Not eligible.
	P-49-003557	7 College Avenue	Atech Warehousing & Distribution Bldg.	Does not appear to be eligible for the NRHP either individually or as part of district, but appears eligible for CRHR as an individual property through survey evaluation.
	HRI: 5402-0250-0006/07/08/10/21/23	802, 806, 812 Donahue Street, 807 Ripley Street, 21 W. Seventh Street, 625, 717 Wilson Street, 99 Sixth Street	Santa Rosa North Railroad District (eight buildings)	3S - Appears eligible for NRHP as an individual property through survey evaluation.
	HRI: 5402-0250-0007	806 Donohue Street	DeTurks Santa Rosa Wine Cellar	3B/3S – Appears eligible for NRHP as an individual property through survey evaluation (GANDA 2004).
	HRI: 5402-0250-0008	812 Donahue Street	DeTurks Santa Rosa Winery	3S -Appears eligible for NRHP as an individual property through survey evaluation (GANDA 2004).



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
	HRI: 5402-0250-0023	717 Wilson Street	Laws and Jaeger Lumber Co.	3S -Appears eligible for NRHP as an individual property through survey evaluation (GANDA 2004).
	N/A	769 Wilson	N/A	Appears eligible for CRHR or City Register as an individual property through survey evaluation (GANDA 2004).
	NPS-79000561	various	Railroad Square Historic District (38 contributors)	NRHP listed.
	NPS-79000561-0009	Wilson Street	Santa Rosa Depot Park	NRHP listed.
	NPS-79000561-008	4th Street	Santa Rosa Station –NWP Depot	NRHP listed.
	NPS-79000561-0010	West Third Street	West Third Street Historic District	NRHP listed.
	NPS-79000561-0024	46 West 6th Street	Santa Rosa Warehouse (1888 warehouse)	NRHP listed.
	P-21-002537	Redwood Blvd. (road section)		Not evaluated.
	P-21-002586	Marsh Road	Levee and Ditch System	Not evaluated.
	P-21-002611	San Antonio Creek	Dock 1	Does not appear to meet criteria for NR listing.
Cotati				
	P-49-003353	1038 E. Cotati Avenue	Residence	6Z – Ineligible for the NRHP.



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
Penngrove				
		10056 Main Street		3S – Appears eligible for CRHR both individually and as a contributor to a CRHR eligible district through a survey evaluation (GANDA 2004).
		11051 Main Street		3S – Appears eligible for CRHR both individually and as a contributor to a CRHR eligible district through a survey evaluation (GANDA 2004).
		11790 Main Street		3S – Appears eligible for CRHR both individually and as a contributor to a CRHR eligible district through a survey evaluation (GANDA 2004).
Petaluma				
	CA-SON-1465H	3355 Petaluma Blvd. South	Haystack Landing	Not evaluated.
	P-49-003136	1006 Lakeville Highway	Warehouse	Not evaluated.
	P-49-003353	360 Corona Road	Residence	6Z – Ineligible for the NRHP.
	P-49-003374	Corona Road	Commercial buildings	6Z – Ineligible for the NRHP.
	P-49-003375	965 N. McDowell Blvd	Residence	6Z – Ineligible for the NRHP.
	HRI: 4952-0001-0000	Cedar Park Grove	Cedar Park Grove House	3S – Appears eligible for NRHP as an individual property through survey evaluation. Previously evaluated.
	HRI: 4952-0013-0000	421 E. Washington Street	Sobrantes House	3S – Appears eligible for NRHP as an individual property through survey evaluation.
	HRI: 4952-0012-0000 P-49-003231	323 E. Washington Street	Poultry Producers Cooperative	3S – Appears eligible for NRHP as an individual property through survey evaluation.



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
	HRI: : 4952-0007-0000	405 E. "D" Street	Burdells Creamery	3S – Appears eligible for NRHP as an individual property through survey evaluation.
	HRI: : 4952-0008-0000	Lakeville Street	Petaluma Depot	3S – Appears eligible for NRHP as an individual property through survey evaluation. City of Petaluma register listed.
	HRI: 4952-0006-0000	228 Weller	Petaluma/Santa Rosa car barns and depot	3S – Appears eligible for NRHP as an individual property through survey evaluation.
	HRI: 4952-0010-9999	East" D", Edith, and Wilson Streets	Old East Petaluma District Worker homes (six)	5D1 – Contributor to a district that is listed or designated locally.
MARIN COUNTY				
Novato				
	P-21-002540	730 Scott Street	Pini Feed Mill Building	Not evaluated.
	P-21-001854 HUD880816C	868 Railroad Avenue	County Engineer's house	6Y (HUD)/5B (GANDA) – Locally significant both individually (listed, eligible, or appears eligible) and as a contributor to a district that is locally listed, designated, determined eligible or appears eligible through survey evaluation. (GANDA2004) City of Novato Historic District.
	N/A	900 Railroad Avenue	DeBorba House	5B – Locally significant both individually (listed, eligible, or appears eligible) and as a contributor to a district that is locally listed, designated, determined eligible or appears eligible through survey evaluation (GANDA 2004). City of Novato Historic District.



**Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE**

County/ City	Resource Number	Address/ Location	Name	Register Status
	N/A	904 Railroad Avenue	Augere Hiribarren House	5B – Locally significant both individually (listed, eligible, or appears eligible) and as a contributor to a district that is locally listed, designated, determined eligible or appears eligible through survey evaluation (GANDA 2004). City of Novato Historic District.
	N/A	906 Railroad Avenue	Samuels House	5B – Locally significant both individually (listed, eligible, or appears eligible) and as a contributor to a district that is locally listed, designated, determined eligible or appears eligible through survey evaluation (GANDA 2004). City of Novato Historic District..
	N/A	910 Railroad Avenue	Oliver House/WWI Novato Sanitarium/Dr. Kuser's Clinic	5B – Locally significant both individually (listed, eligible, or appears eligible) and as a contributor to a district that is locally listed, designated, determined eligible or appears eligible through survey evaluation (GANDA 2004). City of Novato Historic District..
	HRI: 4947-0010-0000	701 Scott Court	Yelmorini Building (Flatiron)	5B -Locally significant both individually (listed, eligible, or appears eligible) and as a contributor to a district that is locally listed, designated, determined eligible or appears eligible through survey evaluation. City of Novato Historic District.



Table 3.3-1 (Continued)
Historic Resources Within or Adjacent to the Proposed Project APE

County/ City	Resource Number	Address/ Location	Name	Register Status
	N/A	705 Scott Court	Yelmorini House/Saloon	5B – Locally significant both individually (listed, eligible, or appears eligible) and as a contributor to a district that is locally listed, designated, determined eligible or appears eligible through survey evaluation (GANDA 2004). City of Novato Historic District.
	N/A	Railroad Avenue	Novato passenger depot	5B – Locally significant both individually (listed, eligible, or appears eligible) and as a contributor to a district that is locally listed, designated, determined eligible or appears eligible through survey evaluation (GANDA 2004). City of Novato Historic District.



3.3.2.1 *Railroad Structures*

The rail line contains many structures including bridges, trestles, culverts, spurs, turntable, switches, communication/signal facilities, historic telegraph poles, and various crossing markers. These railroad structures vary in age, type, and design, and were evaluated in 2003-2004 as part of the SMART pedestrian survey of the rail line between Santa Rosa and Larkspur Landing, (GANDA 2004). GANDA concluded that the majority of the line is not eligible for listing in the NRHP as a district or cultural landscape. Nonetheless, the study noted that portions do retain a high degree of integrity and appear eligible, including the 5.4 miles of the Petaluma River delta area, the Healdsburg Turntable, and both the Russian River Railroad Bridge (Healdsburg) and the Petaluma Haystack Bridge (south of Petaluma). Additionally, the Healdsburg Station, freight depot and surrounding structures are potentially eligible for the NRHP, as is the Petaluma Station (which is also listed as a local historic resource). The Santa Rosa station is individually listed on the NRHP and is a contributor to the local Railroad Square Historic District, which is listed on the NRHP under Criteria A and C.

The proposed project activities include routine maintenance to many of these structures. The types of repairs include track work, culvert work, bridge work, and tunnel work.

Track work will typically involve rail removal and replacement, removal and replacement of deteriorated ties, grading and replacement of lost ballast and soil substructures and removal of vegetation (brushing) that has encroached on the railroad. The routine maintenance and repair activities are typically conducted from the rail with rail-mounted equipment or from within the railroad right-of-way or access.

Culvert work usually entails either repair or replacement depending on the extent of damage caused by normal wear and tear or abnormal drainage conditions. The culverts range in size from 18 to 48 inches in diameter. Routine maintenance and repair activities on the culverts will generally occur in the dry season, and may include the removal of vegetation, soil, or other debris that affects their proper functioning. If excavation for removal and replacement of culverts is required, it will typically occur in already disturbed areas within the railroad right-of-way.

The bridges are composed of wood and steel, and routine maintenance and repair work is generally minor in nature, involving the replacement of one or more bridge



components, such as decking, deck ties and timber guards, struts, bents, bracing, handrails and piles. If piles have deteriorated, they will be cut aboveground or above the waterline and spliced with a replacement pile. Work will usually be done from the rail with rail-mounted equipment and performed during the dry months or out of the water. There will typically be no need to work in water, construct coffer dams or otherwise impact water or waterways. However, if there is a need to repair a pier and the creek or river is flowing, especially for those bridges that are over creeks or rivers that do not experience a dry season, permits will be pursued with the necessary agencies. In addition to the structural maintenance and repair work, electrical and mechanical repairs and maintenance of the bridges operating systems may be necessary.

Five tunnels are located on the rail line between Cloverdale and Willits. These five tunnels were among the earliest constructed for the railway, in approximately 1889. The tunnels were excavated by drill and blast methods, and initially left unsupported. The lengths of the tunnels range from 267 to 1,762 feet.

These tunnels are currently serviceable, however, some rockfall may occur in the unlined segments of the tunnels. Additional deterioration of the timber lining may also occur. Generally, repairs will include replacement of timber lagging, clearing debris and loose rock, and improving drainage in the tunnels.

3.3.2.2 *Black Point Bridge*

During previous emergency repair activities, an evaluation was conducted by the Federal Emergency Management Agency (FEMA) to evaluate the retrofit of two railroad bridges crossing the Petaluma River, including the Black Point Bridge. The results of this evaluation are reported in the FEMA Retrofit of Bridges Project Cultural Resource Technical Report (FEMA 2005). The report stated: "There appears that there will be no adverse effect to the Black Point Bridge" as it relates to the emergency repairs that were being addressed at that time and potential impacts to the historical nature of the bridges. Accordingly, no additional historical study of the bridges was conducted for the emergency repairs at that time.

The rehabilitation activities for the Black Point Bridge included in the proposed project will involve mechanical and electrical system improvements to the bridge. These activities are being proposed to update its operation from a manual swing mechanism to



mechanical automation. Automating the bridge will improve safety and reduce idling time and air emissions. In support of this improvement, plans for automation will be submitted to the SHPO to ensure consistency with the Secretary of the Interior's Standards for the Treatment of Historic Properties with federal and state requirements.

3.3.2.3 *Bakers Creek*

The railroad crossing at Bakers Creek needs rehabilitation prior to resuming operations. High flows in the creek have caused the culverts and 80-foot high embankment to fail. The culvert is to be replaced with a concrete arch structure and back filled with new material to reconstruct the embankment to prior conditions.

3.3.2.4 *Foss Creek*

The railroad line along Foss Creek in Healdsburg needs rehabilitation prior to resuming operations. During storms, creek flows have caused approximately 90 feet of retaining wall to fail and excessive erosion of the track embankment. The embankment will be filled and the creek bank will be reinforced with a new retaining wall system to prevent future erosion.

3.3.2.5 *Lombard Siding (MP 1.0 – MP 2.0)*

To support the operations and connections at Lombard, a new siding will be constructed to allow for the connection with Cal Northern. The proposed site for this siding is the area adjacent to the track between MP 1.0 and MP 2.0. The width of the siding will range from 60 feet for a length of approximately 3,600 feet, then 110 feet wide for the remaining 1700 feet. Cultural resources have not been identified at this location.

Novato Consent Decree (MP 35.5 – MP 18.7)

Improvements required by the Novato Consent Decree include establishing quiet zones at fourteen or more crossings, welding of rails, fencing as required for safety, and landscaping to reduce the effects of glare from trains running after dusk.

The crossings identified in the Novato Consent Decree and the milepost designations are as follows:

1. Rush Creek Place (MP 28.5);



2. Golden Gate Place (MP 28.4);
3. Olive Avenue (MP 28.3);
4. Grant Avenue (MP 28.1);
5. Pedestrian/Bike Crossing (Manuel Drive) (MP 27.5);
6. Novato Creek (Private) (MP 26.9);
7. Wetlands Access (Private) (MP 26.2);
8. Hanna Ranch Road (MP 25.9);
9. Private Crossing (Highway 37) (MP 24.4);
10. Renaissance Road (MP 23.5);
11. Private Crossing (Harbor Drive Business Park) (MP 23.2);
12. Grandview Avenue (MP 23.0);
13. Private Driveway (Hunter's Club Drive) (MP 22.9);
14. Trail crossings immediately to the east of Petaluma River (MP 21.9); and
15. Other intersections of the NWP Line with pedestrian trails or vehicular right-of-ways as may be required or recommended by the regulatory agencies.

Crossing Nos. 1 through 14 are existing crossings that are either developed (paved roads) or unpaved roads and trails where the ground has been disturbed by vehicular or pedestrian traffic. Specific improvements at crossings vary depending on the type of crossing (public road vs. private or pedestrian), size of the street, and volume of traffic. They include construction of short mountable medians, 3-foot wide medians, quad gates, short pedestrian gates and swing gates, and signage. Except for part of a 200 foot median strip that extends off of the railroad right-of-way at Hanna Ranch Road, road improvements, gates, and signage will be constructed on existing roads or disturbed areas adjacent to the crossings. There are no cultural resources identified at these specific locations.

Fencing will be established on both sides of the track from north of Rush Creek Place to south of Hanna Ranch Road roughly between MP 29.5 to MP 25.9. Most of this part of the railroad line runs through the urban district of Novato and is paved or disturbed.



There are several historic structures identified along this part of the rail line adjacent to the railroad right-of-way.

Landscaping type and location will be determined by the City of Novato during a simulation of an engine running down the tracks roughly between MP 28.5 to MP 21. Because the purpose of the landscaping is to prevent glare to residents and businesses along the rail line, it is likely that all landscaping will be established in disturbed undeveloped areas.

3.3.3 Impacts and Mitigation Measures

3.3.3.1 *Significance Criteria*

To summarize the above listed federal, state, and local policies and requirements, an impact to cultural resources is considered significant if it:

- Causes a substantial adverse change in the significance of a historical resource;
- Causes a substantial adverse change in the significance of an archaeological resource;
- Directly or indirectly destroys a unique paleontological resource or site or unique geologic feature; or
- Disturbs any human remains, including those interred outside of formal cemeteries.

These thresholds were used to evaluate potential impacts on cultural resources from operations and the rehabilitation and construction activities.

3.3.3.2 *Impact Assessment Methodology*

Potential impacts to cultural resources were assessed as it relates to operations, rehabilitation, construction, and repair activities.

To evaluate cultural resource sites in compliance with CEQA and other criteria, requires consideration of, among other things, the overall integrity of the site, the regional culture history (the types, ages, and distribution of other sites in the region), and the nature of questions that researchers are attempting to address regarding the history or prehistory of the region.



Resources identified or eligible for either the National or California Registers can exist within the railroad's operational influence and yet not be impacted by operations. Impact analysis is based upon application of the proposed action to resources identified in the APE for such items as how often will trains be traveling, what activities do workers engage in that might bring them near or in contact with protected resources, and how will operations contribute to wear or damage to resources. The issues that are evaluated in this assessment include:

1. Proximity to the resources - How close will the proposed action be to the resource? Are the resources far enough away not to be in contact? Will operations occur in areas that are currently undisturbed or will they stay within the existing railroad footprint?
2. Vandalism and theft - What activities do workers perform that might bring them into contact with protected resources? Will operations result in increased access for the public to protected resources?
3. Wear and damage - What operational activities may contribute to wear or damage to protected resources? Will vibration from railroad operations contribute to degradation? Will soot and diesel fuel result in damage to historic resources in the immediate vicinity of railroad operations?
4. What potential issues could result from the identification of previously undiscovered subsurface resources?

3.3.3.3 *Impacts and Mitigation Measures*

This section describes the potential cultural resource impacts associated with the proposed project implementation and identifies specific mitigation measures to reduce those potential impacts to less than significant levels.

Rehabilitation and Construction Activities

Table 3.3-1 provides a list of historic properties located within the APE. No direct or indirect impacts to those resources are anticipated that will cause a substantial adverse change in the historical and/or archaeological resource as a result of the proposed rehabilitation and construction activities. Moreover, no disturbance of human remains, including those interred outside of formal cemeteries, is anticipated.



There is a chance that previously unidentified cultural resources may be discovered and potentially impacted during project implementation. Accordingly, those impacts have been identified below with proposed mitigation measures to reduce those potential impacts to less than significant levels.

Moreover, during the Section 106 Consultation process, additional measures may be identified by SHPO to further reduce effects of the project on historic properties.

Bakers Creek

Impact CR-BC1: During rehabilitation activities at Bakers Creek, which involves the replacement of the existing culvert with a concrete arch structure and back filled with new material to reconstruct the embankment to prior conditions, a previously unidentified cultural resource may be found during excavation. ***[Less Than Significant Impact with Mitigation Measure CR-BC1]***

Mitigation CR-BC1: If a cultural resource is identified during rehabilitation activities, all work shall be stopped and a qualified specialist with knowledge in the specific cultural resource shall be present to monitor the site. Workers shall be trained to identify cultural resources in accordance with state agency approved BMPs as outlined in the agency approved operations plans required by the Environmental Consent Decree (see Section 3.6, Hazardous Materials).

Foss Creek

Impact CR-FC1: During rehabilitation activities of the Foss Creek bank, involving the construction of a retaining wall system to prevent future erosion, a previously unidentified cultural resource may be found during excavation. ***[Less Than Significant Impact with Mitigation Measure CR-FC1]***

Mitigation CR-FC1: If a cultural resource is identified during rehabilitation activities, all work shall be stopped and a qualified specialist with knowledge in the specific cultural resource shall be present to monitor the site. Workers shall be trained to identify cultural resources in accordance with state agency approved BMPs as outlined in the agency approved operations plans required by the Environmental Consent Decree (see Section 3.6, Hazardous Materials).



Black Point Bridge

Impact CR-BP1: Rehabilitation of the Black Point Bridge may cause a substantial adverse change in the significance of this historical resource via the proposed mechanical and electrical system improvements to update its operation from a manual swing mechanism to mechanical automation. ***[Less Than Significant Impact with Mitigation Measure CR-BP1]***

Mitigation CR-BP1: Plans for automation shall be submitted to the SHPO to ensure consistency with the Secretary of Interior's Standards for the Treatment of Historic Properties.

Under the requirements of California PRC (Section 5024.5a), the lead agency (NCRA) must provide notice and a summary of the proposed action to the SHPO, who shall have 30 days after receipt of the notice and summary to review and comment. A project that has been determined to conform with the Secretary of the Interior's Standards for the Treatment of Historic Properties can generally be considered to be a project that will not cause a significant impact (14 CCR § 15126.4(b)(1)).

Lombard Siding (MP 1.0 – MP 2.0)

Impact CR-LS1: During construction of the new siding at MP 1.0 – MP 2.0, near Lombard, a previously unidentified cultural resource may be discovered. ***[Less Than Significant Impact with Mitigation Measure CR-BC1]***

Mitigation CR-LS1: If a cultural resource is identified during construction activities, all work shall be stopped and a qualified specialist with knowledge in the specific cultural resource shall be present to monitor the site. Workers shall be trained to identify cultural resources in accordance with state agency approved BMPs as outlined in the agency approved operations plans required by the Environmental Consent Decree (see Section 3.6, Hazardous Materials).

Novato Consent Decree (MP 35.5 – MP 18.7)

Quiet zone improvements such as medians, gates, and signage at the existing crossings will be constructed on land that is either paved or disturbed, and on either the railroad right-of-way or city or county property. These projects are typical of road



improvements employing routine construction methods. As a result, impacts to cultural resources, such as historic buildings, that may be present adjacent to the railroad right-of-way at these locations are considered less than significant. However, according to the Novato Consent Decree, other intersections with pedestrian trails or vehicular right-of-ways may be required or recommended by regulatory agencies. In addition, fencing will be established on both sides of the track between Rush Creek Place to south of Hanna Ranch Road. The locations and type of fencing will be determined by the City of Novato following an inspection of the rail line. Therefore it is presently not known whether these right-of-ways or fencing projects will be restricted to disturbed areas on the railroad right-of-way or city and county property, such as paved roads.

Impact CR-NCD1: During construction of quiet zone, a previously unidentified cultural resource may be discovered. *[Less Than Significant Impact with Mitigation Measure CR-NCD1]*

Mitigation CR-NCD1: If a cultural resource is identified during construction activities, all work shall be stopped and a qualified specialist with knowledge in the specific cultural resource shall be present to monitor the site. Workers shall be trained to identify cultural resources in accordance with state agency approved BMPs as outlined in the agency approved operations plans required by the Consent Decree (see Section 3.6, Hazardous Materials, for details).

Operations

Preliminary review by the SHPO indicates that there are no concerns about the operation of the railroad. The SHPO will provide additional comments after review of the administrative DEIR (SHPO e-mail communication by Dwight Dutschke, 12-12-07).