HISTORIC PROPERTIES AVOIDANCE AND PROTECTION PLAN:

EVERSOURCE ENERGY/MASSACHUSETTS DEPARTMENT
OF CONSERVATION AND RECREATION'S
SUDBURY-HUDSON TRANSMISSION RELIABILITY AND
MASS CENTRAL RAIL TRAIL PROJECT
TOWNS OF HUDSON, MARLBOROUGH,
SUDBURY, AND STOW,
MIDDLESEX COUNTY, MASSACHUSETTS
MHC #RC.62384, EEA #15703.

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Prepared for

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and

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Submitted to

The Massachusetts Historical Commission 220 Morrissey Boulevard Boston, MA 02125

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TABLE OF CONTENTS

Table o	f Conter	nts	. 1
List of	Figures		. 2
1.0	INTRO	DUCTION	. :
2.0	PRIOR	CULTURAL RESOURCE INVESTIGATIONS	.:
3.0	AVOID	DANCE AND PROTECTION PLAN OF HISTORIC PROPERTIES	۷.
	3.1	Pre-Construction Phase	.9
	3.2	Construction Phase	. 9
	3.3	Post-Construction Phase	. 9
4.0	REFER	ENCES CITED	1.

APPENDIX I - CMRRCHD Contributing Resources and Proposed Project Impacts Spreadsheet

List of Figures

Figure 1. Sudbury-Hudson Transmission Reliability and Mass Central Rail Trail Project, Hudson Locus Map (USGS) Figure 2. Sudbury-Hudson Transmission Reliability and Mass Central Rail Trail Project, Sudbury Locus Map (USGS) Figure 3. Avoidance and protection measures for sensitive cultural resource areas 19-MD-1208 and 19-MD-1209. Figure 4. Avoidance and protection measures for sensitive cultural resource area HUD-HA-8. Figure 5. Avoidance and protection measures for sensitive cultural resource area HUD-HA-9. Figure 6. Avoidance and protection measures for sensitive cultural resource area SUD-HA-36. Figure 7. Avoidance and protection measures for sensitive cultural resource area SUD-HA-30. Figure 8. Avoidance and protection measures for sensitive cultural resource area SUD-HA-38. Figure 9. Avoidance and protection measures for sensitive cultural resource area SUD-HA-26. Figure 10. Avoidance and protection measures for sensitive cultural resource area SUD-HA-37. Figure 11. Avoidance and protection measures for sensitive cultural resource area SUD-HA-39. Figure 12. Avoidance and protection measures for the Sudbury-Hudson-Marlborough town boundary marker.

1.0 INTRODUCTION

Eversource Energy (Eversource) and the Massachusetts Department of Conservation and Recreation (DCR) are proposing a joint project (the "Project") to construct a new, approximately 9-mile, underground 115-kilovolt electric transmission line and rail trail sited primarily within an unused railroad corridor/right-of-way (ROW) owned by the Massachusetts Bay Transportation Authority (MBTA). This project passes through the municipalities of Sudbury, Hudson, Marlborough, and Stow (Figures 1 and 2). Construction will be conducted in two integrated phases with the majority of the earthwork and the installation of the underground transmission line to be conducted in Phase I and Phase II will consist of the paving and additional ancillary activities associated with the construction of the rail trail.

On behalf of Eversource and the DCR, the following Historic Properties Avoidance and Protection Plan (HPAPP) has been developed by Commonwealth Heritage Group, Inc. (CHG) to protect significant historic and archaeological resources in proximity to the Project's Limit of Work. An Archaeological Site Avoidance and Protection Plan was requested by the Massachusetts Historical Commission (MHC) for submittal to the MHC (MHC Review Letter to the US Army Corps of Engineers dated December 18, 2019). This document has been revised to incorporate both archaeological and above ground resources and was thus renamed an HPAPP to account for the multiple resource types presented in this document.

This HPAPP consists of three sections: Introduction, Prior Cultural Resources Investigations, and the Avoidance and Protection Plan. The latter includes subsections that address Pre-Construction, Construction and Post-Construction Activities.

2.0 PRIOR CULTURAL RESOURCE STUDIES

The Project requires review and permitting by the US Army Corps of Engineers (USACE) and is being reviewed by the MHC under Section 106 of the National Historic Preservation Act of 1966, as amended (36 CFR 800). The MHC has determined that the project area is within and adjacent to historic and archaeological resources included in the MHC's Inventory of Historic Assets of the Commonwealth and/or State and/or National Registers of Historic Places (MHC letter dated June 30, 2017). A reconnaissance-level historic properties survey and archaeological reconnaissance survey (under MHC Permit #3783) were conducted by CHG and final reports submitted (Myruski and Meyer 2017; Dudek and Donohue 2018). Based on the results of the reconnaissance surveys, an archaeological intensive (locational) survey was recommended for archaeologically sensitive portions of the Project and two MHC Area Inventory Forms were drafted to document the Central Massachusetts Railroad Corridor Historic District (CMRRCHD) in the Towns of Sudbury (Spies 2020) and Hudson (Benjamin-Ma, et al. 2021). The archaeological intensive (locational) survey was conducted under Permit #3828 issued by the State Archaeologist. Field work was conducted during the summer of 2018 and the final report submitted (Dudek and Donohue 2019).

The archaeological intensive (locational) survey field work identified ten archaeological sites that are considered to be potentially significant (i.e., having the potential to meet the criteria of eligibility for listing on the National Register of Historic Places). Two of the archaeological sites are precontact Native American sites and both sites will be avoided: The Ordway Locus 2 Precontact Site (19-MD-1208) in Hudson consists of a quartz tool, a rhyolite flake, four fire-cracked rocks and a possible fire-related feature; The Ordway Locus 3 Precontact Site (19-MD-1209), also in Hudson, consists of ten pieces of stone chipping debris from tool making and two fire-cracked rocks.

In addition, eight of the ten sites consist of historic archaeological sites. Five railroad station sites and a railroad section tool house associated with the CMRRCHD are present in the Project ROW and include the Gleasondale Station (HUD-HA-8) and the Ordway Station (HUD-HA-9) in Hudson; the Wayside Inn

Station (SUD-HA-38), the South Sudbury Station (SUD-HA-26), the Boston & Maine Railroad Section Tool House (SUD-HA-37) and the East Sudbury Station (SUD-HA-39) in Sudbury. The Boston & Maine Railroad Section Tool House site (SUD-HA-37) includes the standing ca. 1890 section tool house (SUD.282). Intact yard deposits associated with two colonial sites that are primarily located outside of the ROW - the Memorial Forest Cellar Hole (SUD-HA-36) and the Walker Garrison House (SUD-HA-30) - were also identified.

Avoidance and protection of the potentially significant archaeological sites was recommended (Dudek and Donohue 2019). The MHC commented that: "A draft written archaeological site avoidance and protection plan, including stipulations for fencing, signage and contractor briefings, should be prepared by CHG and submitted to the MHC for review and comment" (MHC Review Letter to the USACE dated April 3, 2019).

3.0 AVOIDANCE AND PROTECTION PLAN OF CULTURAL RESOURCES

Table 1. Identified potentially significant archaeological sites and proposed action.

	Affected Proper	ty	Proposed Action			
Archaeological Site	Site # and town	Segment	Avoidance measures during construction	Burial of site under fill/ geotextile fabric	Figure	
Ordway Locus 2 Precontact Site	19-MD-1208 Hudson	5 Main Street to Parmenter Road	Yes		Figure 3	
Ordway Locus 3 Precontact Site	19-MD-1209 Hudson	5 Main Street to Parmenter Road	Yes		Figure 3	
Gleasondale Station site (CMRRCHD)	HUD-HA-8 Hudson	3 Chestnut Street to Fort Meadow Brook	Partial	X	Figure 4	
Ordway Station site (CMRRCHD)	HUD-HA-9 Hudson	6 Parmenter Road to White Pond Road	Yes		Figure 5	
Memorial Forest cellar hole	SUD-HA-36 Sudbury	8 Hudson Town Line to Dutton Road	Yes		Figure 6	
Walker Garrison House	SUD-HA-30 Sudbury	8 Hudson Town Line to Dutton Road	Yes		Figure 7	
Wayside Inn Station site (CMRRCHD)	SUD-HA-38 Sudbury	8 Hudson Town Line to Dutton Road	Yes		Figure 8	
South Sudbury Station (CMRRCHD)	SUD-HA-26 Sudbury	11 Horse Pond Road to Union Avenue	Yes		Figure 9	
Boston & Maine Railroad Section Tool House (CMRRCHD)	SUD-HA-37 Sudbury	12 Route 20 to Landham Road	Yes		Figure 10	
East Sudbury Station site (CMRRCHD)	SUD-HA-39 Sudbury	13 Landham Road to Sudbury Substation	Partial X Fig.		Figure 11	

Table 1 lists the ten archaeological sites recommended for avoidance and protection and the proposed measures to be taken. While some of the archaeological sites (Sites 19-MD-1208, 19-MD-1209, SUD-HA-30, and SUD-HA-36) are located outside of the Project's Limit of Work (defined as the maximum extent of ground disturbance during construction activities and shown on Project plans), modifications to the Project route and the Limit of Work have been made to completely avoid four additional sites: HUD-HA-9, SUD-HA-26, SUD-HA-37, and SUD-HA-38. Sites HUD-HA-8 and SUD-HA-39 are partially within the Limit of Work but are being protected from grading or excavation; these sites will be protected by burial of the site within the Limit of Work under the installation of geotextile fabric with clean road-grade fill over the geotextile fabric.

The South Sudbury Railroad Station site (SUD-HA-26) is located west of Union Avenue and south of the railroad under an asphalt-paved driveway and parking area. The 1888 Victorian-style station was demolished in the mid 1950s and no impact to the site is proposed; the site will be protected by the pavement. Prior to demolition of the station, a small Colonial-style depot was constructed in 1952 south of the rail line and east of the former South Sudbury Depot. The 1952 depot was retired from service on January 17, 1965; it is still intact. Avoidance and protection of the ca. 1952 Colonial-style depot is recommended (Figure 9); presently the building has been vacated from the business that was located there recently, but fencing may need to be modified to take into account access to the building or business owner concerns if a business is present at the time of construction.

Central Massachusetts Railroad Corridor Historic District Contributing Resources

In addition to the aforementioned railroad station archaeological sites and the railroad section tool house, a number of other railroad-related features including, but not limited to, bridges, whistle posts, rail rests, signal relay boxes, battery wells, culverts and mile markers were identified and listed as contributing resources to the CMRRCHD. A comprehensive listing of all CMRRCHD contributing resources and the proposed Project actions is presented in Appendix I. A number of these resources will be either removed, replaced, rehabilitated, or altered. These resources include the rails and wood ties (SUD.933 and SUD.934 – MHC Inventory #s for rails and wood ties in Hudson are TBD), with the exception of two sections of spur track located west of Union Avenue and west of Boston Post Road as outlined in the Project plans, Bridge 127 (SUD.901), Bridge 128 (SUD.900), Bridge 130 (MHC Inventory #TBD), Culvert 125B (No MHC Inventory # on form), Culvert 126D (SUD.940), Culvert 127A (SUD.945), and the stone retaining wall at MP 23.95 (MHC Inventory #TBD).

For the remaining contributing resources, individual proposed project actions, along with their mile post and VHB Station locations (present on the Project plan sets) are summarized in Table 2. These impacts were updated after an initial review with the Phase I construction contractor on 1/27/2022. Of these resources, any located well outside the Limit of Work shall be retained and protected with construction fencing and signage that shall be installed in consultation with and approved by the cultural resource consultant (see *Resources to be Avoided* in Table 2). The consultant shall be given 24 hours advanced notice before any construction activities within the immediate vicinity of the feature occurs.

The resources located within the Project's Limit of Work will need to be removed and reset in a new location, but will be reset as close as possible to their original location (see *Resources within Limit of Work to be Removed & Reset* in Table 2). Lastly, a number of additional features are located at the very limit of or directly adjacent to the Limit of Work and will need additional contractor input during construction as to whether or not these objects will need to be removed and reset (see *Resources at very limit of or directly adjacent to Limit of Work and will be Avoided or Removed & Reset* in Table 2); whenever feasible these features will be preserved *in situ*.

Table 2. Identified CMRRCHD contributing resources and proposed action.

Contributing Resource	MHC#	MP	VHB STA	Town
Resources to be Avoided	l.		~	
Section Tool House	SUD.282	19.75	712+20	Sudbury
South Sudbury Station	SUD.396	19.99	601+50	Sudbury
Telegraph Poles (approx. 23 in total)*	SUD.935	Various	Various	Sudbury
Culvert 126A	SUD.936	18.96	752+17	Sudbury
Milepost	SUD.937	19.00	751+50	Sudbury
Culvert 126B	SUD.938	19.06	747+39	Sudbury
Battery Well for Distant Approach Signal	SUD.942	19.26	736+45	Sudbury
Whistle Post - W on east face, N of tracks	SUD.946	19.73	712+80	Sudbury
Concrete base for Auto Highway Flashers	SUD.947	19.76	711+80	Sudbury
Concrete base for Auto Highway Flashers	SUD.948	19.76	710+90	Sudbury
Signal Relay Box (mast only)	SUD.949	19.76	710+85	Sudbury
Culvert 127B	SUD.950	19.87	704+56	Sudbury
Concrete Bases for Highway Signal	SUD.951	19.97	602+45	Sudbury
Signal Relay Box	SUD.961	20.13	594+50	Sudbury
Culvert 127C	SUD.962	20.14	593+18	Sudbury
Signal Relay Box	SUD.963	20.34	585+00	Sudbury
Wood Post	SUD.964	20.34	584+60	Sudbury
Culvert 127D	SUD.966	20.44	577+31	Sudbury
Culvert 127E	SUD.970	20.75	560+82	Sudbury
Signal Relay Box	SUD.972	20.79	555+50	Sudbury
Milepost B21 N83	SUD.976	21.00	548+80	Sudbury
Culvert 127F	SUD.979	21.18	539+40	Sudbury
Wood Post, south side of ROW	SUD.982	21.36	529+80	Sudbury
Culvert 127G	SUD.983	21.40	527+30	Sudbury
Culvert 127H	SUD.984	21.51	521+64	Sudbury
Culvert 127I	SUD.985	21.58	517+96	Sudbury
Whistle Post (broken) - S side of tracks	SUD.986	21.58	517+50	Sudbury
Rail Rest	SUD.988	21.94	414+15	Sudbury
Milepost B22 N82	SUD.989	22.00	413+05	Sudbury
Culvert 127J	SUD.990	22.05	410+25	Sudbury
Culvert 129A	SUD.992	22.83	368+80	Sudbury
Farm Crossing	TBD	18.79	761+25	Sudbury
Milepost	TBD	23	360+20	Hudson
Rail Rest	TBD	23.05	357+90	Hudson
Telegraph Pole	TBD	23.06	357+25	Hudson
Milepost	TBD	24	307+30	Hudson
Culvert 129C	TBD	24.3	206+15	Hudson
Cattle pass	TBD	25.83	124+90	Hudson
Milepost	TBD	26	114+25	Hudson
Culvert 132A	TBD	26.12	107+90	Hudson
Resources within Limit of Work to be Removed & Res		1 23.12	10,170	11445011
Poured Concrete base for Signal Relay Box/Battery	SUD.944	19.60		Sudbury
Well	505.7 **	17.00	718+10	Sudduly
Milepost	SUD.953	20.00	601+60	Sudbury
Concrete bases & steel posts for Signal/Electrical boxes	SUD.955	20.00	001100	Sudbury
(5)	505.733	20.00	600+60	Sudduly
Diamond junction with Framingham & Lowell RR	SUD.956	20.02	600+50	Sudbury

Whistle Post	Cianal Dalay Dan	CLID 0C0	20.59	570 : 05	C 41
Crossing Sign Base SUD.971 20.79 555+65 Sudbury Wood Post North Side of ROW SUD.980 21.29 531+90 Sudbury Conduir Pipe Derail Switch TBD 23.33 334+35 Hudson Concrete base well TBD 24.36 201+10 Hudson Whistle post (N) TBD 24.5 195+75 Hudson Whistle Post (N) TBD 24.76 182+20 Hudson Wood Post TBD 24.76 182+20 Hudson Utility Pole TBD 24.76 182+20 Hudson Track Switch Stand with Electrical Box TBD 24.8 179+15 Hudson Milepost TBD 24.89 174+90 Hudson Milepost TBD 25 167+75 Hudson Rail Rest TBD 25 167+55 Hudson Rail Rest TBD 25 167+55 Hudson Rail Rest SUD.939 19.21 743+75 Sudbury	Signal Relay Box	SUD.968		570+05	Sudbury
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Distant Approach Interlocking Signal #M208 SUD.973 20.80 551+50 Sudbury Battery Well for Interlocking Signal #M208 SUD.974 20.80 551+45 Sudbury Rail Rest SUD.975 20.98 549+05 Sudbury Whistle Post – eastbound, S side of tracks SUD.977 21.13 542+55 Sudbury Signal Relay Box SUD.978 21.16 540+85 Sudbury Auto Highway Flashers/Signal Relay Cabinet SUD.981 21.35 530+60 Sudbury Whistle Post - westbound, N of tracks SUD.987 21.66 513+15 Sudbury Whistle Post - W on west face, S of tracks SUD.991 22.19 403+70 Sudbury Section post TBD 24 307+30 Hudson Whistle post (S) TBD 24.4 200+10 Hudson	Tall Concrete Sign Post	SUD.965	20.39	581+10	Sudbury
Battery Well for Interlocking Signal #M208 SUD.974 20.80 551+45 Sudbury Rail Rest SUD.975 20.98 549+05 Sudbury Whistle Post – eastbound, S side of tracks SUD.977 21.13 542+55 Sudbury Signal Relay Box SUD.978 21.16 540+85 Sudbury Auto Highway Flashers/Signal Relay Cabinet SUD.981 21.35 530+60 Sudbury Whistle Post - westbound, N of tracks SUD.987 21.66 513+15 Sudbury Whistle Post - W on west face, S of tracks SUD.991 22.19 403+70 Sudbury Section post TBD 24 307+30 Hudson Rail Rest TBD 24.09 302+60 Hudson Whistle post (S) TBD 24.4 200+10 Hudson	Rail Rest	SUD.967	20.55	570+65	Sudbury
Rail Rest SUD.975 20.98 549+05 Sudbury Whistle Post – eastbound, S side of tracks SUD.977 21.13 542+55 Sudbury Signal Relay Box SUD.978 21.16 540+85 Sudbury Auto Highway Flashers/Signal Relay Cabinet SUD.981 21.35 530+60 Sudbury Whistle Post - westbound, N of tracks SUD.987 21.66 513+15 Sudbury Whistle Post - W on west face, S of tracks SUD.991 22.19 403+70 Sudbury Section post TBD 24 307+30 Hudson Rail Rest TBD 24.09 302+60 Hudson Whistle post (S) TBD 24.4 200+10 Hudson	Distant Approach Interlocking Signal #M208	SUD.973	20.80	551+50	Sudbury
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Signal Relay Box SUD.978 21.16 540+85 Sudbury Auto Highway Flashers/Signal Relay Cabinet SUD.981 21.35 530+60 Sudbury Whistle Post - westbound, N of tracks SUD.987 21.66 513+15 Sudbury Whistle Post - W on west face, S of tracks SUD.991 22.19 403+70 Sudbury Section post TBD 24 307+30 Hudson Rail Rest TBD 24.09 302+60 Hudson Whistle post (S) TBD 24.4 200+10 Hudson	Rail Rest	SUD.975	20.98	549+05	Sudbury
Auto Highway Flashers/Signal Relay Cabinet SUD.981 21.35 530+60 Sudbury Whistle Post - westbound, N of tracks SUD.987 21.66 513+15 Sudbury Whistle Post - W on west face, S of tracks SUD.991 22.19 403+70 Sudbury Section post TBD 24 307+30 Hudson Rail Rest TBD 24.09 302+60 Hudson Whistle post (S) TBD 24.4 200+10 Hudson	Whistle Post – eastbound, S side of tracks	SUD.977	21.13	542+55	Sudbury
Auto Highway Flashers/Signal Relay Cabinet SUD.981 21.35 530+60 Sudbury Whistle Post - westbound, N of tracks SUD.987 21.66 513+15 Sudbury Whistle Post - W on west face, S of tracks SUD.991 22.19 403+70 Sudbury Section post TBD 24 307+30 Hudson Rail Rest TBD 24.09 302+60 Hudson Whistle post (S) TBD 24.4 200+10 Hudson	Signal Relay Box	SUD.978	21.16	540+85	Sudbury
Whistle Post - westbound, N of tracks SUD.987 21.66 513+15 Sudbury Whistle Post - W on west face, S of tracks SUD.991 22.19 403+70 Sudbury Section post TBD 24 307+30 Hudson Rail Rest TBD 24.09 302+60 Hudson Whistle post (S) TBD 24.4 200+10 Hudson	Auto Highway Flashers/Signal Relay Cabinet	SUD.981	21.35	530+60	Sudbury
Whistle Post - W on west face, S of tracks SUD.991 22.19 403+70 Sudbury Section post TBD 24 307+30 Hudson Rail Rest TBD 24.09 302+60 Hudson Whistle post (S) TBD 24.4 200+10 Hudson	Whistle Post - westbound, N of tracks	SUD.987	21.66	513+15	Sudbury
Section post TBD 24 307+30 Hudson Rail Rest TBD 24.09 302+60 Hudson Whistle post (S) TBD 24.4 200+10 Hudson	Whistle Post - W on west face, S of tracks	SUD.991		403+70	
Rail Rest TBD 24.09 302+60 Hudson Whistle post (S) TBD 24.4 200+10 Hudson		TBD	24	307+30	Hudson
Whistle post (S) TBD 24.4 200+10 Hudson		TBD	24.09		Hudson
1 '	Whistle post (S)	TBD	24.4		Hudson
100100 11111001	1 , ,		24.78	180+80	Hudson

^{*}Only one of the approximately 23 telegraph poles in Sudbury will need to be removed due to recently identified safety concerns and the remaining will be avoided. The pole to be removed is adjacent to the Diamond Junction.

The removal and resetting of the railroad features identified as contributing resources will be directed by several guidelines:

- 1) Any features to be removed and reset will be photographed beforehand.
- 2) Those features that are in the Project's Limit of Work will be removed and reset. Whenever feasible, features will be preserved *in situ*.
- 3) If features need to be removed and reset, they will be reset as close as possible to their original location.
- 4) If a feature consists of multiple objects (e.g., SUD.955) the spatial association of these objects will be documented prior to removal and the minimum number of objects will be removed and reset.

^{**}Recently identified by Eversource/DCR and not included on CMRRCHD Inventory Form within the Town of Sudbury (Spies 2020).

- 5) If a feature is closely associated with another feature (e.g., SUD.941 and SUD.942), the spatial association of these objects will be documented prior to removal. If both features need to be reset, the original spatial organization will be maintained when reset, as best as possible. If only one feature needs to be removed and reset, the feature to be removed will be reset in a location a similar distance from the second feature, as best as possible.
- 6) Any feature that is currently leaning will be reset in their original, upright, position, as best as possible, unless this requires additional alteration of or repairs to the object.
- 7) Other than resetting features in an upright position, no attempts will be made to further alter or repair the current condition of the RR features.
- 8) Removal and resetting shall only be done after consultation with the cultural resource consultant, who shall specify the methodology used to remove, protect, and reset the feature, as well as determining the most appropriate location for the resetting of features.
- 9) If there is more than one day's delay between removal and resetting of a feature, the object will be stored on site within the MBTA ROW, but outside the Limit of Work. The resource will be fenced off with high visibility fencing and marked with *No Trespassing* signs until the time in which it can be reset.
- 10) Although not anticipated, if any railroad features are significantly damaged during the removal and resetting process, the feature will be carefully placed outside the Limit of Work, but within the MBTA ROW, and protected with high visibility fencing placed around the feature along with *No Trespassing* signage. Eversource and the DCR will consult with the MHC and the USACE to determine appropriate next steps.

Granite Town-Line Marker

In addition to the historic properties covered under this HPAPP, the Sudbury-Hudson-Marlborough town boundary marker near Old Concord Road will also require protection measures under this Plan (Figure 12). The town boundary location is presently marked with a granite post measuring 10 inches wide and with a height of 47 inches above the ground surface. The post is marked on the west side with the date of "1993"; on the north side with "H" for Hudson; on the east side with "S" for Sudbury; and on the south side with "M" for Marlborough. No railroad ties and tracks are in this area and the present marker was presumably installed around 1993, as the date on the stone suggests. Since the present granite marker is less than 50 years of age, it is not considered to be potentially eligible for the National Register of Historic Places. However, avoidance and protection of the town boundary stone is planned as the marker is protected under Massachusetts General Laws Chapter 42, Boundaries of Cities and Town, Sections 1-12 (www.massachusettsgenerallaws.com/generallaws.htm). Modifications to the Project route and the Limit of Work have been made to avoid the marker (Figure 12).

Avoidance and Protection Measures

Avoidance and protection measures for the resources include installing high-visibility temporary fencing (i.e., orange construction fence) around the resources or for archaeological sites, at key locations such as along the edges of the Project's Limit of Work and the sensitive cultural resource area, as noted in Figures 3 to 12. Signs with *No Trespassing* should be posted along the fence to indicate that these are off-limits areas. No access or impacts are allowed within the fenced areas. Construction personnel and contractors will be instructed to neither perform nor permit any construction, excavation, grading, tree stumping, filling, dumping, or the storage or staging of equipment vehicles, or supplies within the boundaries of the fenced area. Monitoring or flagging of the areas by CHG can assist in facilitating the employment of protection measures (i.e., placement of fencing). For sites HUD-HA-8 and SUD-HA-39 a CHG Project Archaeologist will monitor the installation of geotextile fabric and clean road-grade fill as necessary to assist in the accurate placement of protective fill over the archaeological sites.

CHG cultural resource personnel will make field visits to ensure that the avoidance and protective measures are carried out as specified, with photographic documentation prior to, during and after construction. The pre-construction, construction, and post-construction elements of the HPAPP for the Project are detailed below:

3.1 PRE-CONSTRUCTION PHASE

A pre-construction meeting will be held with Project personnel and contractors and CHG's Principal Investigator to review these measures.

The pre-construction activities will involve the following:

- Pre-construction site inspection;
- Photography;
- Construction personnel briefing; and
- High-visibility fencing with *No Trespassing* signs along the sensitive cultural resource areas to be protected.

3.2 CONSTRUCTION PHASE

Construction will be conducted in two integrated phases with the majority of the earthwork and the installation of the underground transmission line to be conducted in Phase I; Phase II will consist of paving and other activities associated with the construction of the rail trail. The majority of the removal and resetting of railroad features will be performed during Phase I of construction.

CHG cultural resource personnel will be available during the course of Phase I of construction work as needed, which will include the monitoring and other activities identified above. For Phase II construction activities, the DCR staff archaeologist or another qualified professional archaeologist will also be available for any necessary monitoring activities.

The construction activities will include the following:

- Avoidance of the fenced sensitive cultural resource areas;
- Monitoring of the installation of geotextile fabric and clean road-grade fill at Sites HUD-HA-8 and SUD-HA-39;
- Specification of the methodology used to remove, preserve, and reset the railroad features;
- Monitoring the removal and resetting of the railroad features; and
- Response, reporting, and corrective actions if these conditions are not met.

3.3 POST-CONSTRUCTION PHASE

CHG cultural resource personnel will conduct a post-construction inspection immediately after the construction phase of the Project to evaluate the condition of the archaeologically sensitive areas and determine whether or not project-related impacts had taken place within the protected areas. The findings of the inspection will be reported to the MHC and the USACE via a memorandum.

The post-construction activities will include the following:

- Fence and sign removal;
- Post-construction site inspection;

- Photography; and
- Post-construction memorandum.

4.0 REFERENCES CITED

Benjamin-Ma, Nicole, Quinn Stuart and David Gutbrod

2021 MHC Inventory Form A – Central Massachusetts Railroad Corridor, Town of Hudson. Inventory Form submitted to the Massachusetts Historical Commission, Boston, MA.

Dudek, Martin G. and Barbara Donohue

2018 Archaeological Reconnaissance Survey for the Sudbury-Hudson Transmission Reliability Project, Towns of Sudbury, Hudson, Marlborough, and Stow, Middlesex County, Massachusetts. Report submitted to the Massachusetts Historical Commission, Boston, MA.

Dudek, Martin G. and Barbara Donohue

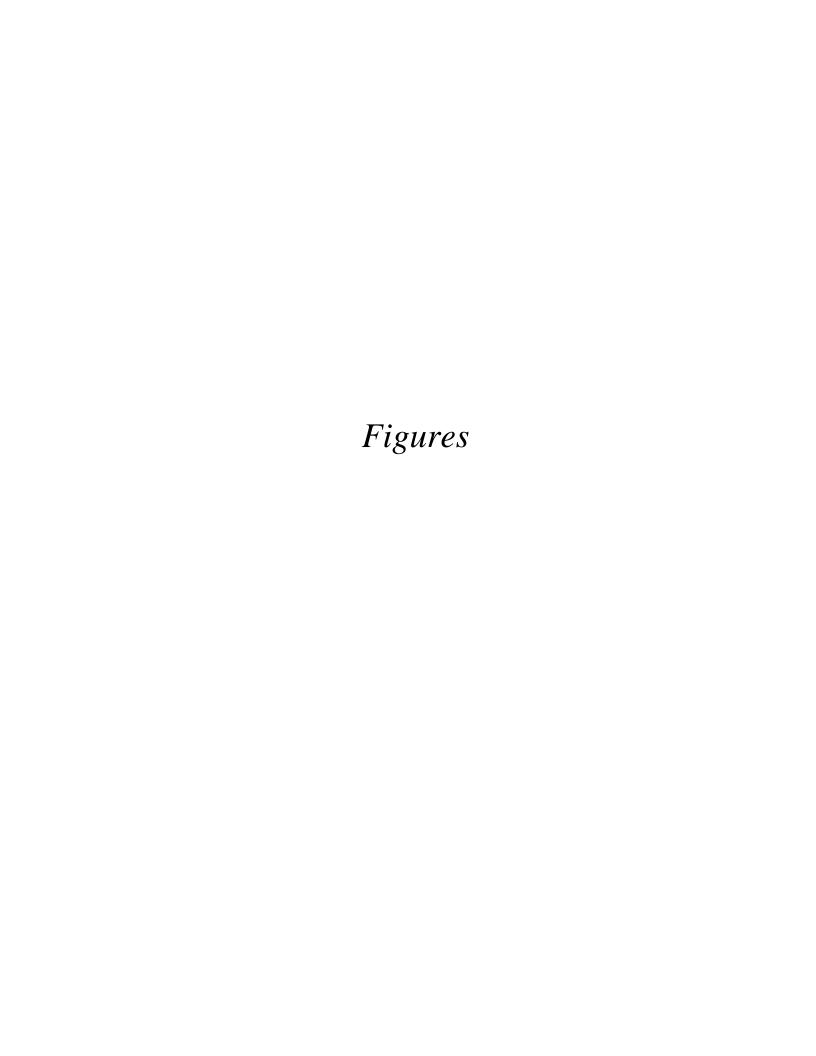
2019 Archaeological Intensive (Locational) Survey for the Sudbury-Hudson Transmission Reliability Project, Towns of Sudbury, Hudson, Marlborough, and Stow, Middlesex County, Massachusetts. Report submitted to the Massachusetts Historical Commission, Boston, MA.

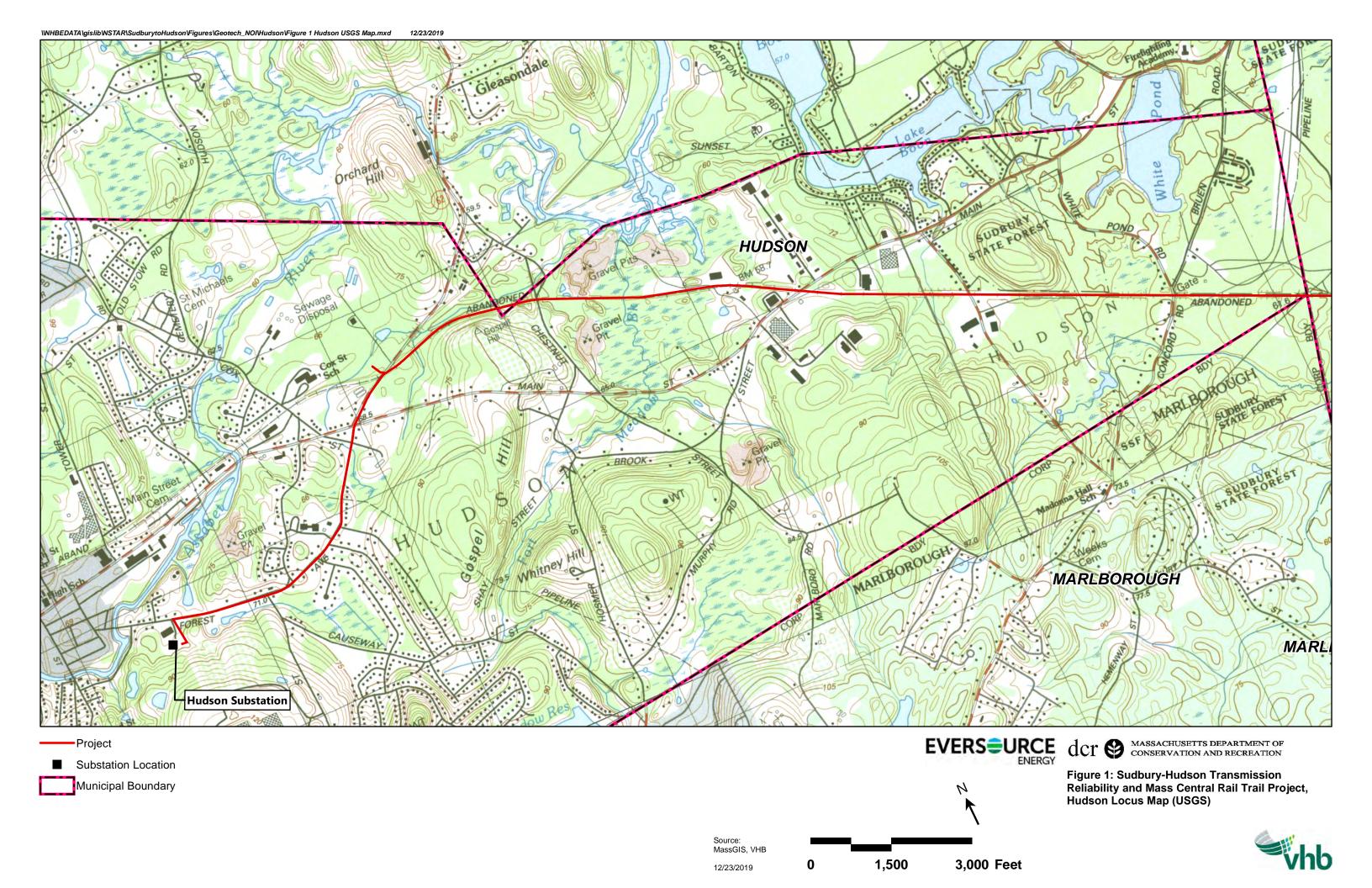
Myruski, Candice N. and Richard Meyer

2017 Sudbury-Hudson Transmission Reliability Project Town of Sudbury, City of Marlborough, Town of Stow, and Town of Hudson, Middlesex County, Massachusetts MHC No. RC.62384; EEA No. 15703 Reconnaissance-Level Historic Properties Survey. Report submitted to the Massachusetts Historical Commission, Boston, MA.

Spies, Stacy E.

2020 MHC Inventory Form A – Central Massachusetts Railroad Corridor, Town of Sudbury. Inventory Form submitted to the Massachusetts Historical Commission, Boston, MA.





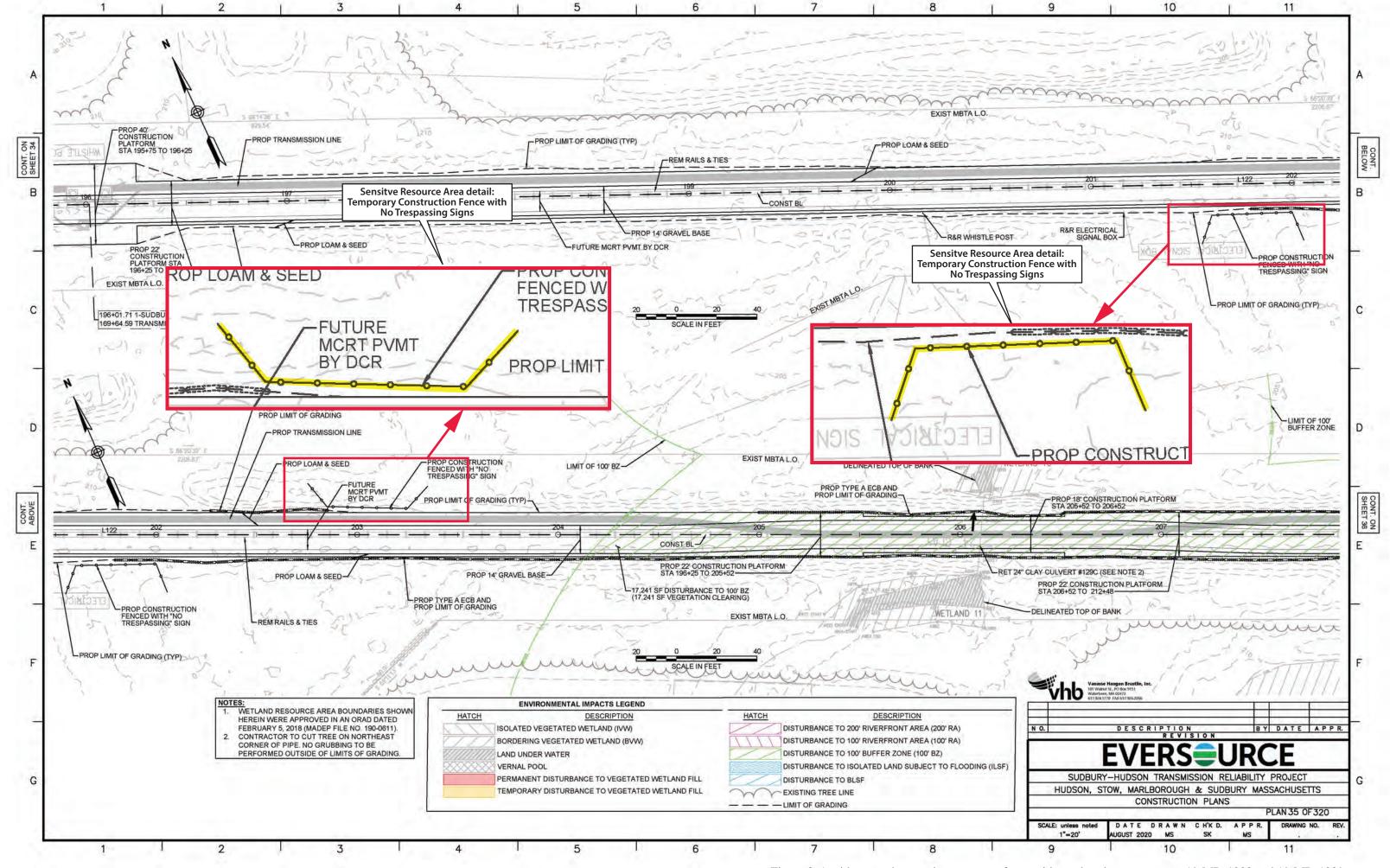


Figure 3. Avoidance and protection measures for sensitive cultural resource areas 19-MD-1208 and 19-MD-1209.

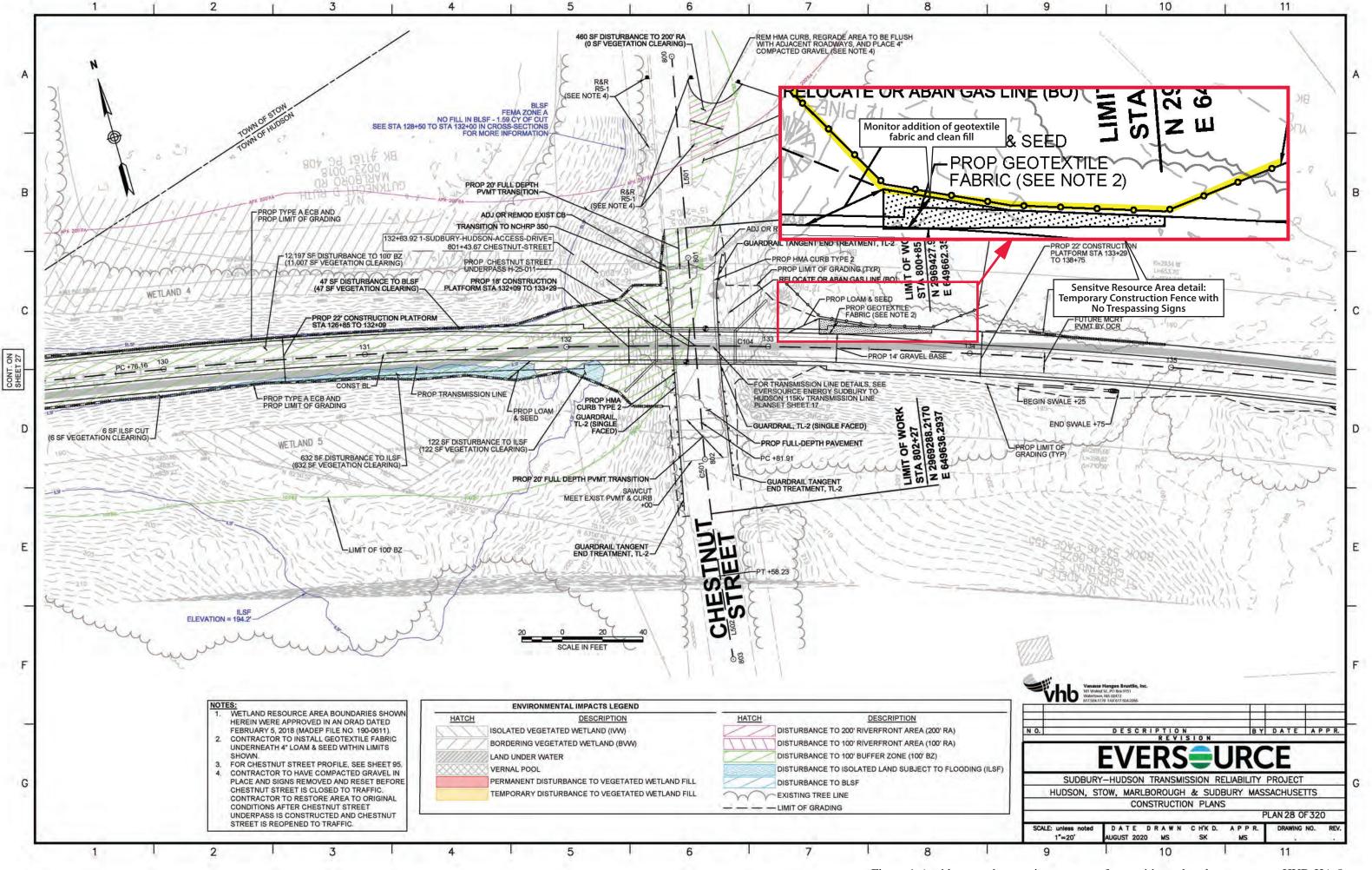


Figure 4. Avoidance and protection measures for sensitive cultural resource area HUD-HA-8.

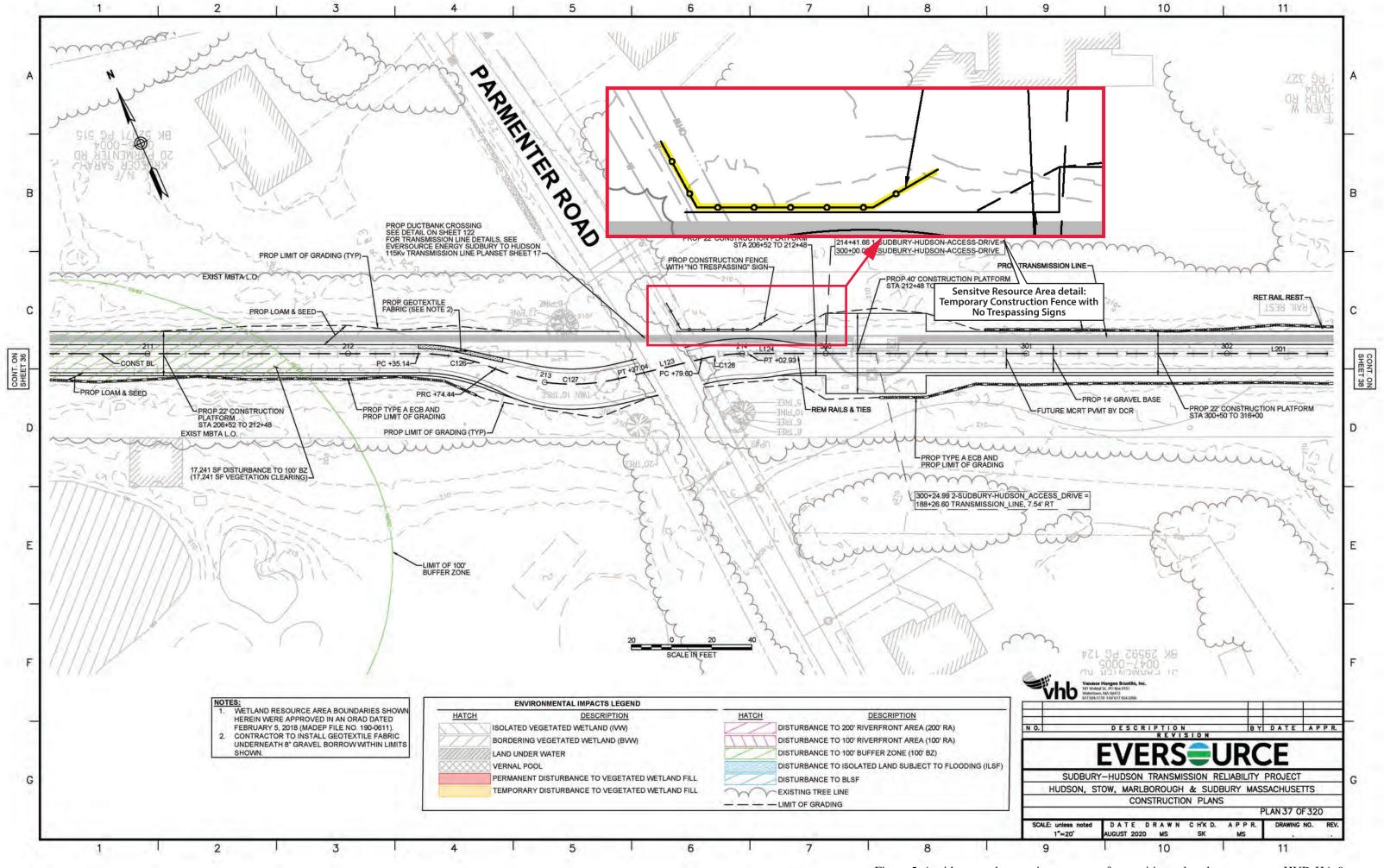


Figure 5. Avoidance and protection measures for sensitive cultural resource area HUD-HA-9.

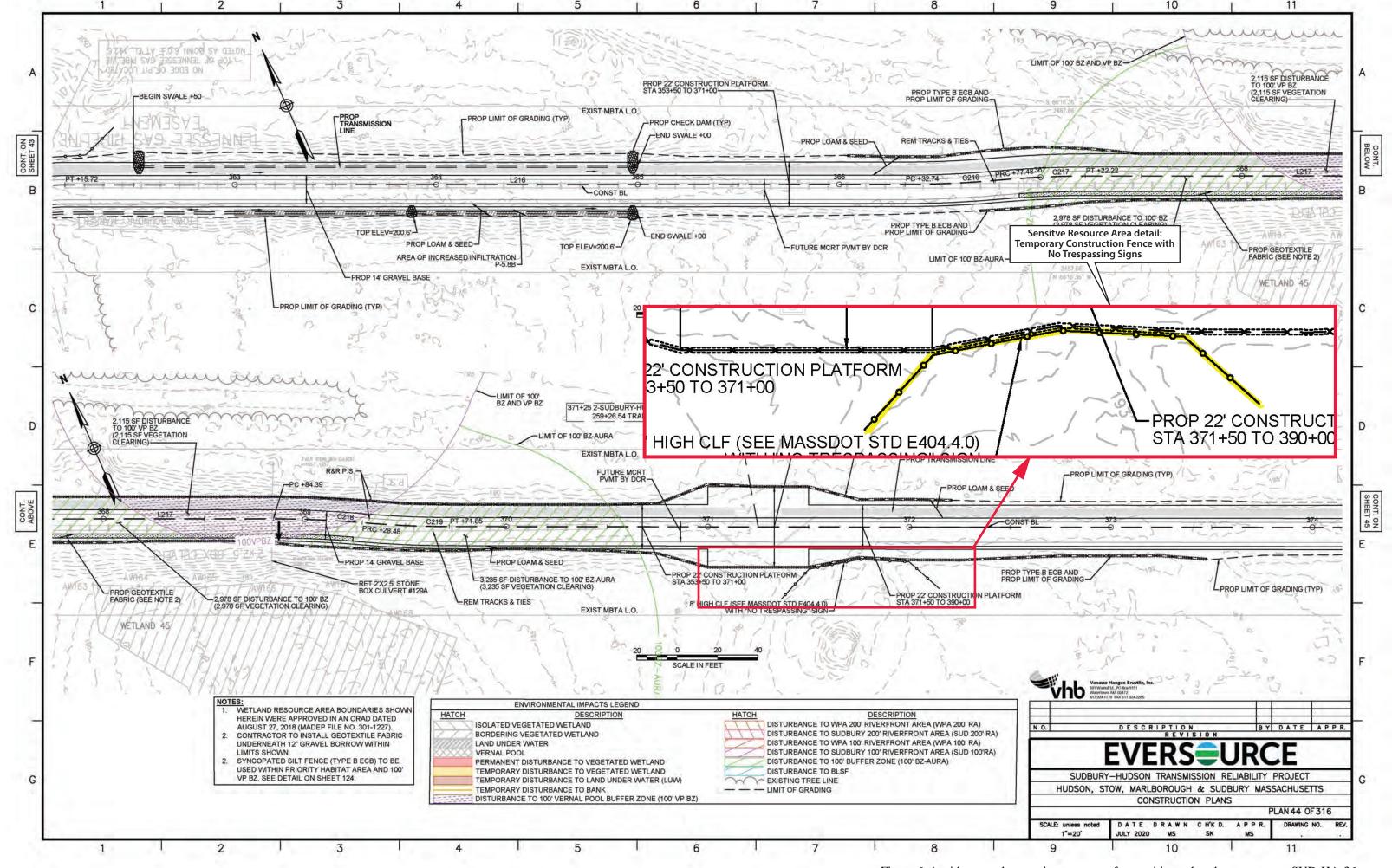


Figure 6. Avoidance and protection measures for sensitive cultural resource area SUD-HA-36.

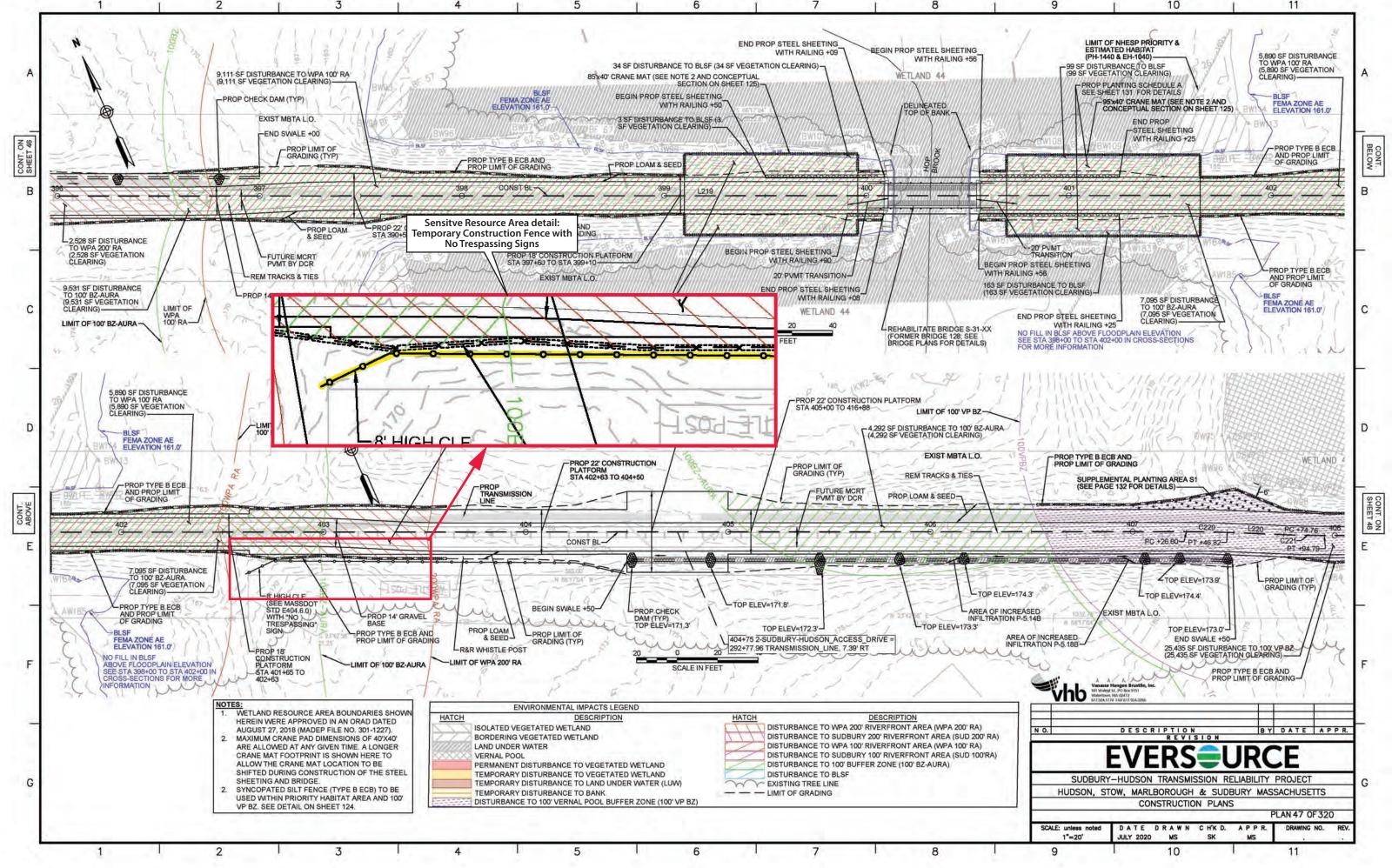


Figure 7. Avoidance and protection measures for sensitive cultural resource area SUD-HA-30.

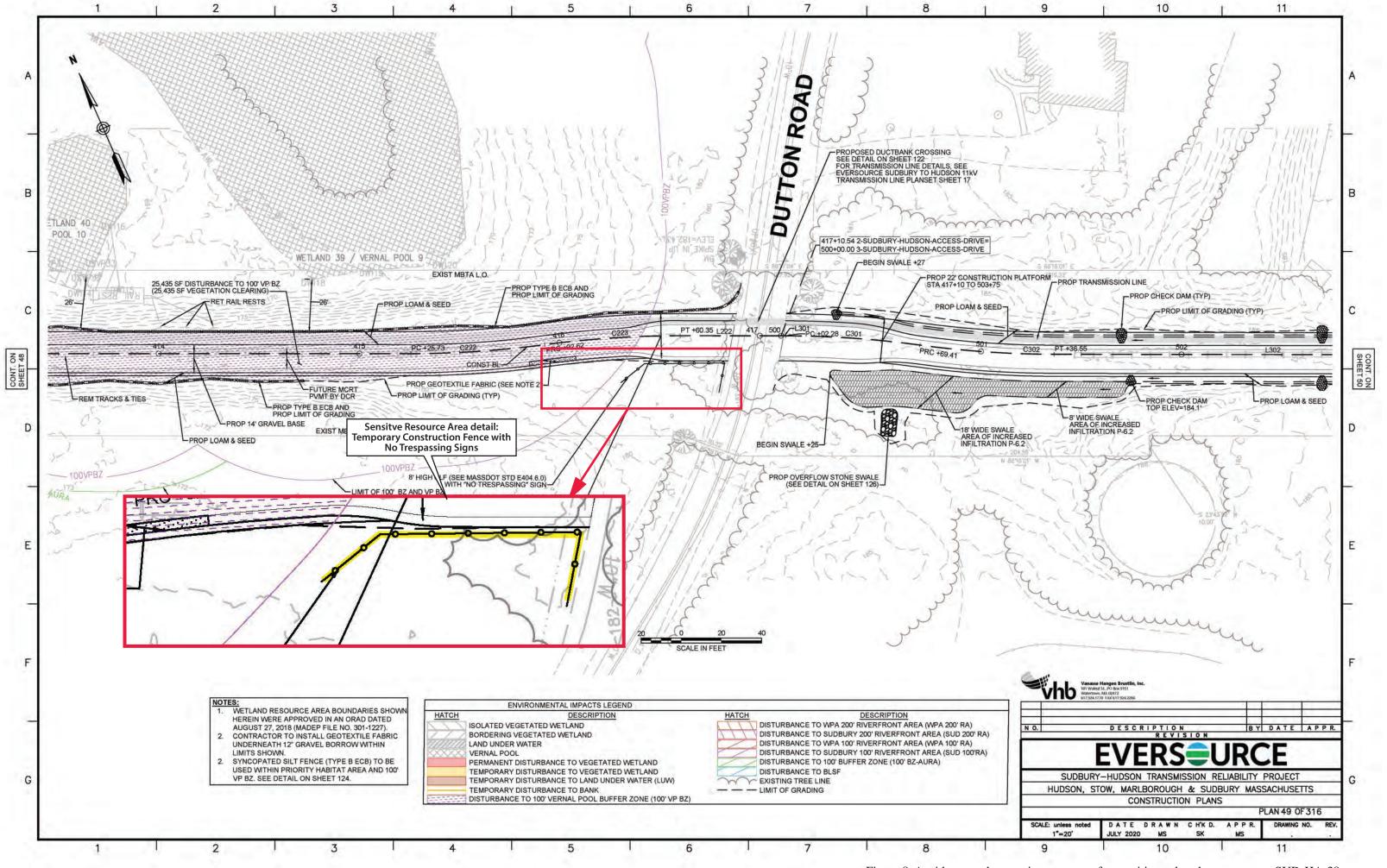


Figure 8. Avoidance and protection measures for sensitive cultural resource area SUD-HA-38.

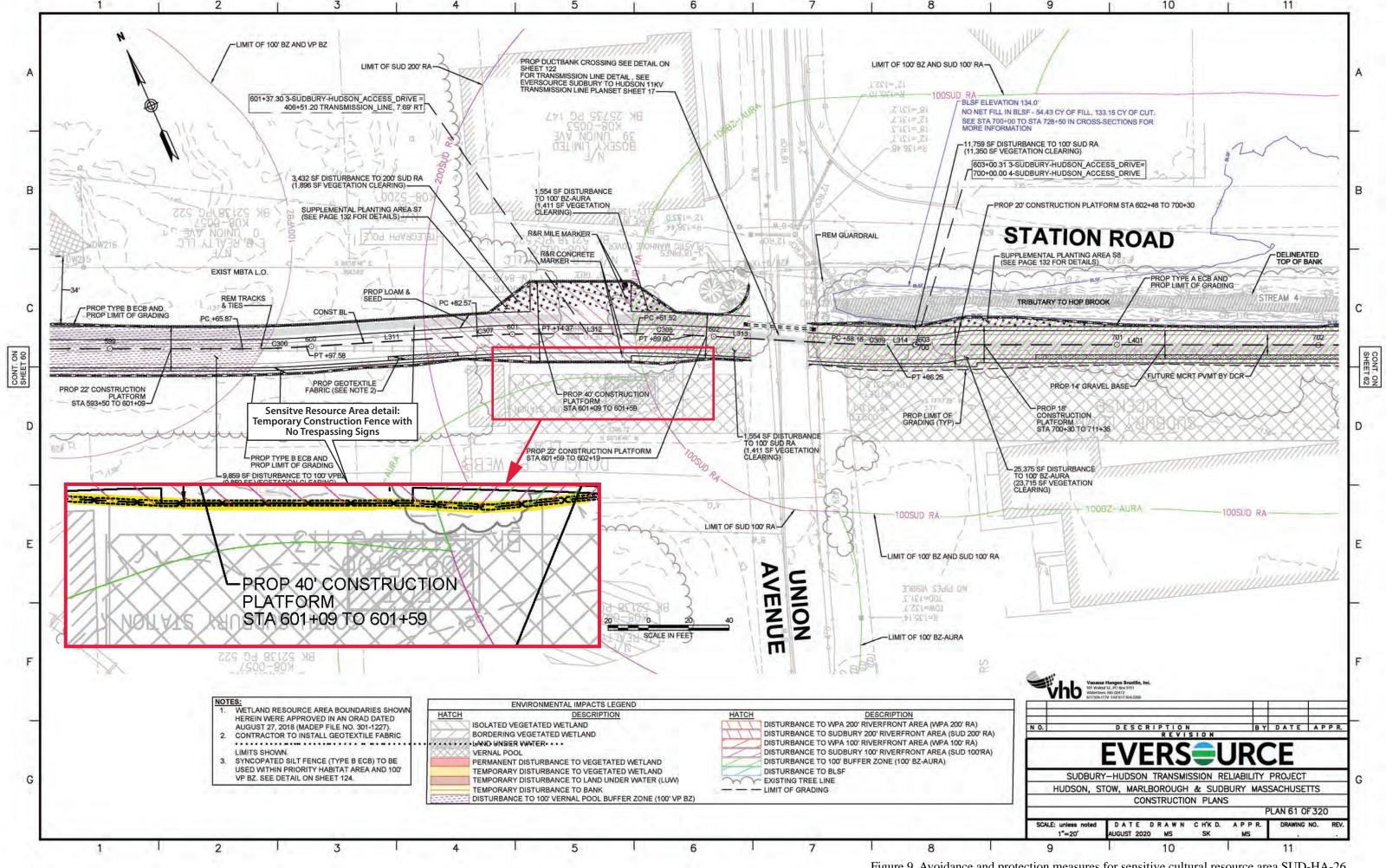
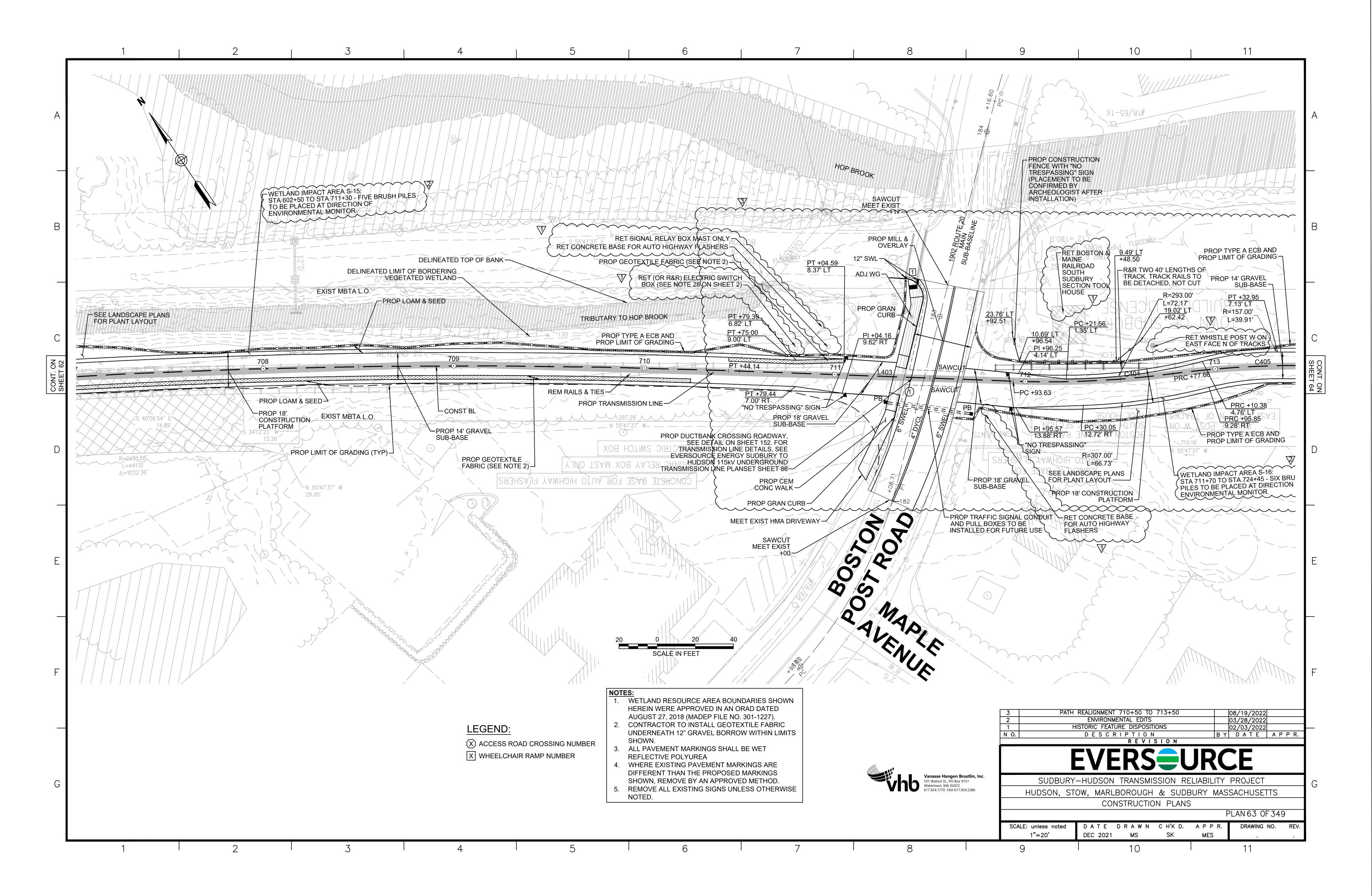


Figure 9. Avoidance and protection measures for sensitive cultural resource area SUD-HA-26.



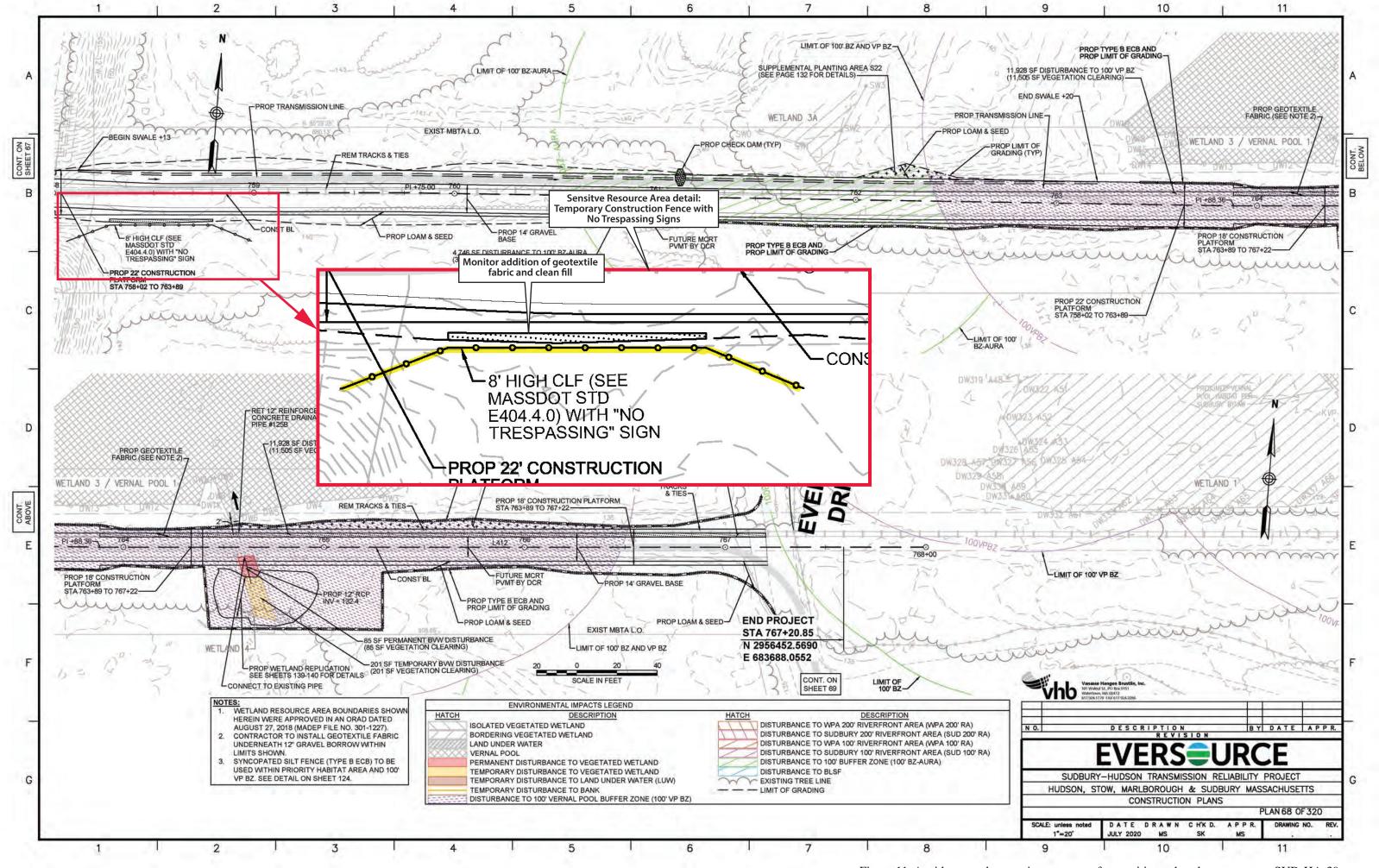


Figure 11. Avoidance and protection measures for sensitive cultural resource area SUD-HA-39.

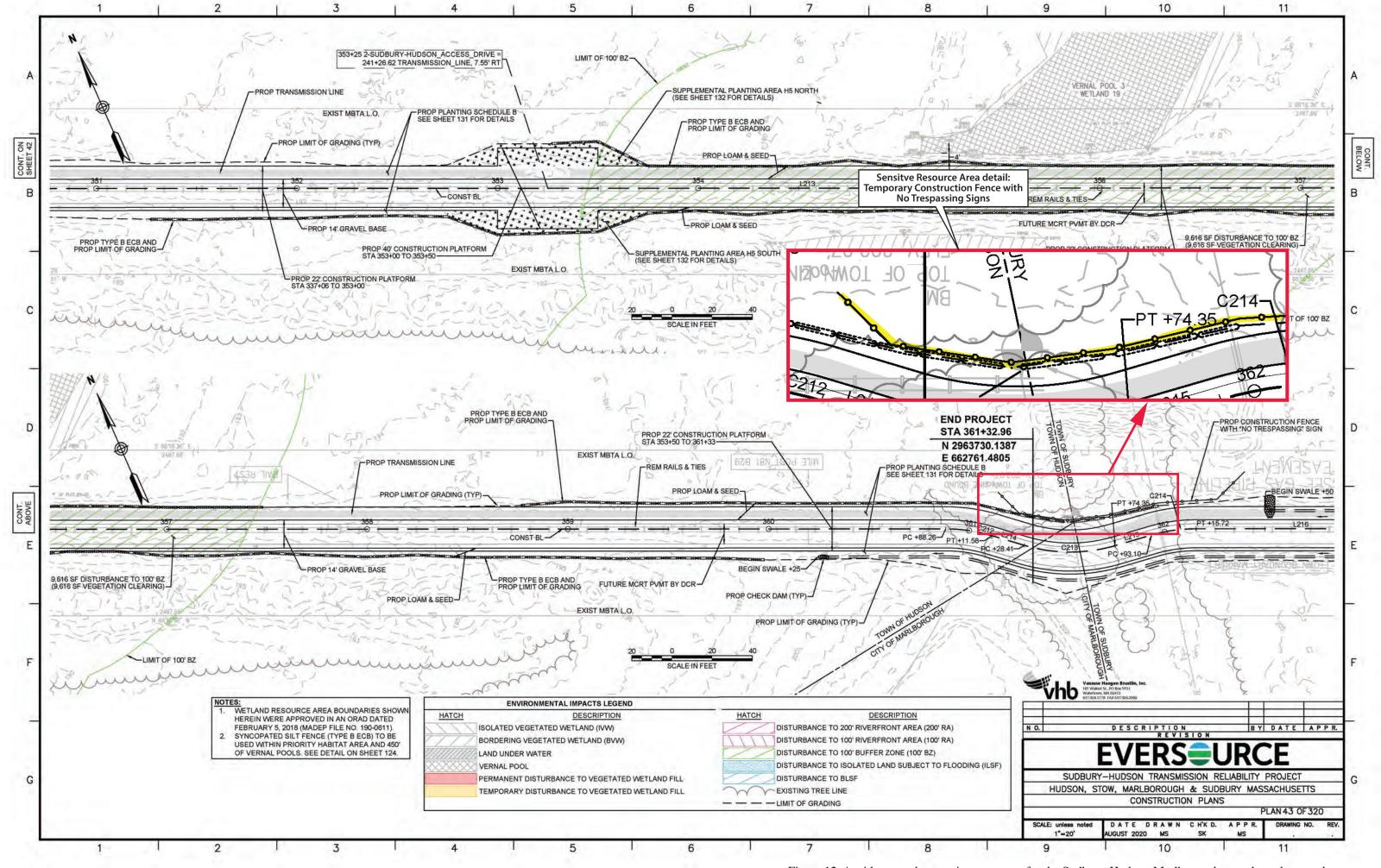


Figure 12. Avoidance and protection measures for the Sudbury-Hudson-Marlborough town boundary marker.

APPENDIX I: CMRRCHD Contributing Resources and Proposed Project Impacts Spreadsheet

MHC#	Feature	VHB STA	Milepost	Proposed Action	Proposed Project Activity	Party to Complete Proposed Action
	tified contributing resource (not included	on SUD.R in			Avoid; if not possible, remove	·
	Electric switch box	710+85	19.75	Avoid/R&R	and reset.	Eversource
Contributing	 g resources on SUD.R inventory form tha	t could not be	located by SI	I IC/Spies, but were I	ocated by Eversource/DCR	
	Farm Crossing -Wood Box 1' span, 3' H	761+25	18.79	Avoid	Outside limit of work	
	-				Extend existing pipe to maintain	
	Culvert 125B	764+60	18.73	Extend	vernal pool hydrology.	Eversource
Contributing	I g resources on SUD.R inventory form tha	t were locate	d by both SHC	 Spies and Eversour	ce/DCR	
SUD.933	Rails	Throughout	Throughout	Remove	Remove	Eversource
SUD.934	Wood Ties	Throughout	Throughout	Remove	Remove *All outside limit of work but	Eversource
SUD.935	Telegraph Poles (approx. 23 in total)	Throughout	Throughout	Avoid*	one. Remove 1 telegraph pole closest to diamond junction due to safety hazard.	Eversource
	East Sudbury Station Archaeological				Protect with geotextile fabric &	
SUD-HA-39 Landham Ro		758+50	18.84	Avoid & protect	fill.	Eversource
SUD.936	Culvert 126A	752+17	18.96	Avoid	Clear out sediment	
SUD.937	Milepost	751+50	19.00	Avoid	Outside limit of work	
SUD.938	Culturat 12CB	747.20	10.05	8 d	Cut vegetation on northeast wingwall that is causing collapse	
SUD.938	Culvert 126B	747+39	19.06	Avoid	(no grubbing). Avoid; if not possible, remove	
SUD.939	Rail Rest	743+75	19.21	Avoid/R&R	and reset. Replace with 18" ductile iron	Eversource
					pipe ("DIP") with concrete headwall to maintain drainage	_
SUD.940	Culvert 126D	738+77	19.22	Replace	patterns. Avoid; if not possible, remove	Eversource
SUD.941	Distant Approach Signal Battery Well for Distant Approach	736+55	19.26	Avoid/R&R	and reset.	Eversource
SUD.942	Signal	736+45	19.26	Avoid	Outside limit of work	
SUD.943	Signal Relay Box	729+60	19.37	Avoid/R&R	Avoid; if not possible, remove and reset.	Eversource
300.943	Digital Nelay Box	729+00	19.37	Avoid/Rek	Replace superstructure (top two courses of stone abutments to	Eversource
SUD.901	Bridge 127	725+25	19.47	Replace	be removed; other courses to remain).	Eversource
SUD.944	Poured Concrete base for Signal Relay Box/Battery Well	718+10	19.60	R&R	Remove & reset	Eversource
300.344	BOX/ Battery Well	710+10	15.00	NXX	Replace with 24" ductile iron	Eversource
SUD.945	Culvert 127A	713+63	19.70	Replace	pipe ("DIP") with concrete headwall due to heavy corrosion.	Eversource
	Whistle Post - W on east face, N of			·		
SUD.946 SUD.282	tracks Section Tool House	712+80 712+20	19.73 19.75	Avoid Avoid	Outside limit of work Outside limit of work	
CUD UA 27	C .: - III A I I : IC	742.20	40.75		0.1.1.1.1.1.1	_
SUD-HA-37	Section Tool House Archaeological Site Concrete base for Auto Highway	712+20	19.75	Avoid & protect	Outside limit of work	Eversource
SUD.947 Boston Post	Flashers	711+80	19.76	Avoid	Outside limit of work	
DOSTON FOST	Concrete base for Auto Highway					
SUD.948	Flashers	710+90	19.76	Avoid	Outside limit of work	
SUD.949 SUD.950	Signal Relay Box (mast only) Culvert 127B	710+85 704+56	19.76 19.87	Avoid Avoid	Outside limit of work Outside limit of work	
	Concrete Bases for Highway Signal	602+45	19.97	Avoid	Outside limit of work	
Union Aven	ue T				A 1116 A 111	
SUD.952	Concrete Sign Post	602+10	19.98	Avoid/R&R	Avoid; if not possible, remove and reset.	Eversource
SUD.396	South Sudbury Station	601+50	19.99	Avoid	Avoid	
CUD UA 2C	South Sudbury Station Archaeological Site	C01.F0	10.00	Aid 0	Outside limit of work	Eversource
SUD-HA-26 SUD.953	Milepost	601+50 601+60	19.99 20.00	Avoid & protect R&R	Remove & reset	Eversource
					Avoid; if not possible, remove	
SUD.954	3 Switch Stands Concrete bases & steel posts for	600+60	20.00	Avoid/R&R	and reset.	Eversource
SUD.955	Signal/Electrical Boxes (5)	600+60	20.00	R&R	Remove & reset	Eversource
SUD.956	Diamond junction with Framingham & Lowell RR	600+50	20.02	R&R	Remove & reset Avoid; if not possible, remove	Eversource Remove; DCR Reset
SUD.957	Wood whistle/stop sign post	600+80	20.02	Avoid/R&R	and reset.	Eversource
SUD.958	Signal Relay Box	598+55	20.07	Avoid/R&R	Avoid; if not possible, remove and reset. Avoid; if not possible, remove	Eversource
SUD.959	Concrete Base for Signal E2	598+55	20.07	Avoid/R&R	and reset. Avoid; if not possible, remove	Eversource
	Rail Rest	596+90	20.09	Avoid/R&R	and reset.	Eversource
SUD.961 SUD.962	Signal Relay Box Culvert 127C	594+50 593+18	20.13 20.14	Avoid	Outside limit of work Outside limit of work	
SUD.962 SUD.963	Signal Relay Box	593+18	20.14	Avoid Avoid	Outside limit of work	
SUD.964	Wood Post	584+60	20.34	Avoid	Data shows outside limit of work. Could not find on 1/27/22 field visit.	
					Avoid; if not possible, remove	E
SUD.965 SUD.966	Tall Concrete Sign Post Culvert 127D	581+10 577+31	20.39 20.44	Avoid/R&R Avoid	and reset. Outside limit of work	Eversource

Remove	2
Replace	3
Rehab	1
Extend	1
Avoid	36
Avoid /	
R&R	20
R&R	8
Total**	71

** including 4
archaeological sites,
two resources
included on Spies'
inventory but were
not located nor given
MHC inventory
numbers, and one
new resource
(electric switch box)
that was identified
recently by
CHG/VHB.

Eversource Eversource Eversource Eversource
Eversource
Eversource
Eversource
Eversource
Eversource
1
Eversource
Eversource
Eversource
Eversource
Eversource
+
Eversource
Eversource
Eversource
Eversource

Contributing resources on SUD.R inventory form that could not be located by SHC/Spies or Eversource/DCR

	8 ,	
XXX	Signal Relay Box	18.39?
XXX	Culvert 126C	19.28?
	Whistle Post W on East face N of	
XXX	tracks	22.2

мнс#	Feature	VHB STA	Milepost	Proposed Action	Proposed Project Activity	Party to Complete Proposed Action
Town Bound		VIIDSIA	Willepost	Froposed Action	Proposed Project Activity	r roposed Action
TOWN DOWN	Rails		Throughout	Remove	Remove	Eversource
	Ties		Throughout	Remove	Remove	Eversource
	Milepost	360+20	23	Avoid	Outside limit of work	Eversource
	Rail Rest	357+90	23.05	Avoid	Outside limit of work	
	Telegraph Pole	357+25	23.06	Avoid	Outside limit of work	
	Conduit Pipe Derail Switch	343+35	23.33	R&R	Remove & reset	Eversource
	Stone wall	309+55	23.95	Remove	Remove	Eversource
	Milepost	307+30	24	Avoid	Outside limit of work	Eversource
	Section Post	307+30	24	Avoid/R&R	Remove & reset	Eversource
	Rail Rest	302+60	24.09	Avoid/R&R	Remove & reset	Eversource
IIIID IIA O	Ordway Archaeological Site	214+00	24.09	Avoid & protect	Outside limit of work	Eversource
		214+00	24.1	Avoid & protect	Outside littlit of work	Eversource
Parmenter I	Koaa I				Remove tree on northeast	
		205 45				
	Culvert 129C	206+15	24.3	Avoid	corner; stabilize bank	
	Concrete base well	201+10	24.36	R&R	Remove & reset	Eversource
					Avoid; if not possible,	
	Whistle post (S)	200+10	24.4	Avoid/R&R	remove and reset.	Eversource
	Whistle post (N)	195+75	24.5	R&R	Remove & reset	Eversource
	Wood Post	183+55	24.72	R&R	Remove & reset	Eversource
	Utility Pole	182+20	24.76	R&R	Remove & reset	Eversource
Main Street						
					Avoid; if not possible,	
	Wood Post	180+80	24.78	Avoid/R&R	remove and reset.	Eversource
	Track Switch Stand with					
	Electrical Box	179+15	24.8	R&R	Remove & reset	Eversource
	Concrete Box	174+90	24.89	R&R	Remove & reset	Eversource
	Milepost	167+75	25	R&R	Remove & reset	Eversource
	Rail Rest	167+55	25	R&R	Remove & reset	Eversource
					Replace superstructure (no	
HUD.908	Bridge #130	148+75	25.37	Replace	existing abutments)	Eversource
Fort Meado	w Brook					
	Gleasondale Station				Protect with geotextile	
HUD HA-8	Archeological Site	132+95	25.64	Avoid & protect	fabric & fill.	Eversource
Chestnut St	-		23.01	711010 G protect		
cestilat Sti					Remove rails and ties on	
	Cattle pass	124+90	25.83	Avoid	top of cattle pass	
	Rail Rest	114+60	25.65	R&R	Remove & reset	Eversource
	Milepost	114+00	26	Avoid	Outside limit of work	Eversource
	Culvert 132A	107+90	26.12		Outside limit of work	
	Cuivert 132A	107+90	20.12	Avoid	Outside lifflit of work	

Remove	3				
Replace	1				
Rehab	0				
Extend	0				
Avoid	10				
Avoid / R&R	4				
R&R	10				
Total*	28				
* includes 2					

* includes 2 archaeological sites





